LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 17

2024

Bate Stamp Numbers
01242041 – 01244017

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2024

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

VOLUME 17

2024

A.	Title:	Report (Cont'd) – Appendix C, File 2 to Draft Final Third Annual Remedial Action Operation Report, LHAAP-16 Landfill, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas, May 2024
	Author(s):	Department of the Army
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	May 9, 2024
	Bate Stamp:	01242041–01242473

B.	Title:	Report (Cont'd) – Appendix C, File 3 to Draft Final Third Annual Remedial Action Operation Report, LHAAP-16 Landfill, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas, May 2024
	Author(s):	Department of the Army
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	May 9, 2024
	Bate Stamp:	01242474–01244017

21 Vinyl Acetate	43	2.993	2.993 (0.717)	1278544	100.000	105.45
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	405735	50.0000	48.95

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Report Date: 13-Feb-2023 13:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	88085	50.0000	46.59(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	156785	100.000	94.91
	25 Methacrylonitrile	41	3.814	3.814	(0.914)	189879	50.0000	48.23(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.840)	391858	50.0000	55.68
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.844)	268715	50.0000	46.75
	28 Chloroform	83	3.900	3.900	(0.934)	456688	50.0000	49.16
	29 Bromochloromethane	128	3.788	3.788	(0.907)	141374	50.0000	44.92
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	248083	50.0000	46.46
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	406537	50.0000	55.16
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	347386	50.0000	59.78
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	359396	50.0000	53.59
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	343104	50.0000	55.29
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	285067	50.0000	50.59
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	818504	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	993022	50.0000	50.80
	38 Trichloroethene	130	5.205	5.205	(1.049)	294141	50.0000	53.05
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	364348	50.0000	49.67
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	198125	50.0000	52.26
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	230649	100.000	110.52
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	255973	50.0000	49.23
	43 2-Nitropropane	43	5.966	5.966	(1.429)	74463	50.0000	53.03
	44 Dibromomethane	93	5.549	5.549	(1.119)	170238	50.0000	48.17
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	436948	100.000	104.38
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	447159	50.0000	51.90
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	783145	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	927909	50.0000	47.94
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	191590	50.0000	49.70
	50 Toluene	91	6.445	6.445	(0.841)	1113718	50.0000	51.45
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	385680	50.0000	53.94
	52 2-Hexanone	43	7.083	7.083	(0.924)	303433	100.000	106.54
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	207478	50.0000	47.77
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	422434	50.0000	49.42
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	314395	50.0000	50.16
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	252568	50.0000	56.39
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	275881	50.0000	50.81
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	224575	50.0000	56.77(M)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	764275	50.0000	49.77
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	290991	50.0000	50.92
	61 Ethylbenzene	106	7.799	7.799	(1.017)	397631	50.0000	54.97
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1002125	100.000	107.48
	63 o-Xylene	106	8.237	8.237	(1.074)	480901	50.0000	52.26
	64 Styrene	104	8.256	8.256	(1.077)	828039	50.0000	53.68
	66 Bromoform	173	8.410	8.410	(1.097)	216458	50.0000	49.85
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1246133	50.0000	59.27
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	340339	50.0000	47.45
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	368818	50.0000	50.98
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	449944	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	257754	50.0000	51.48(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	90484	50.0000	53.52
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1474554	50.0000	59.16(M)
	74 Bromobenzene	156	8.803	8.803	(0.911)	369305	50.0000	50.02
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1092182	50.0000	59.32

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	903344	50.0000	55.23
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1059538	50.0000	56.82

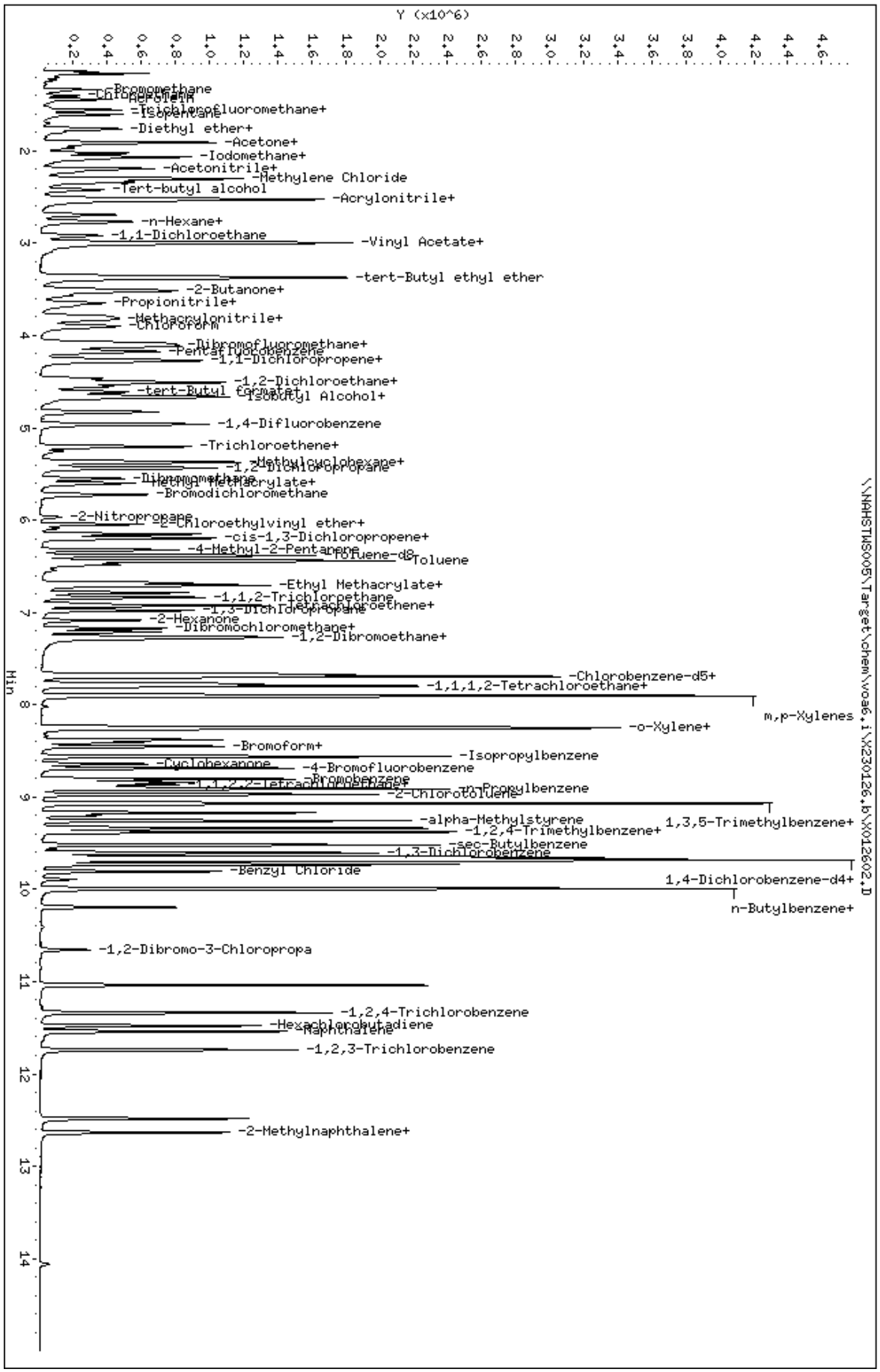
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	893391	50.0000	59.27(M)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1099169	50.0000	56.73
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1291675	50.0000	64.41
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1154254	50.0000	64.23
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	658780	50.0000	53.76
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	688189	50.0000	51.47
86	Benzyl Chloride	91	9.808	9.808	(1.279)	618205	50.0000	50.41
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1038339	50.0000	59.60
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	647591	50.0000	51.31
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	57369	50.0000	50.03
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	467390	50.0000	58.69
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	209123	50.0000	59.13(M)
92	Naphthalene	128	11.540	11.540	(1.194)	986824	50.0000	54.46
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	416768	50.0000	54.64
146	Methyl acetate	43	2.224	2.224	(0.533)	131655	50.0000	52.62
138	Freon TF	101	1.910	1.910	(0.458)	214734	50.0000	52.61
141	Cyclohexane	56	4.118	4.118	(0.987)	331857	50.0000	58.98
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	62665	100.000	90.37
147	Methylcyclohexane	55	5.373	5.373	(1.083)	597268	50.0000	59.61
135	1,4-Dioxane	88	5.594	5.594	(1.340)	53946	1000.00	1061.51
132	n-Butanol	56	5.253	5.253	(1.259)	71753	1000.00	1008.36
131	Methyl Acrylate	55	3.683	3.683	(0.882)	201582	50.0000	53.40(M)
133	Ethyl Acrylate	55	5.373	5.373	(1.287)	597268	50.0000	54.65
136	n-Hexane	57	2.768	2.768	(0.663)	267568	50.0000	66.84
139	Diethyl ether	59	1.752	1.752	(0.420)	154063	50.0000	41.47
148	Tert-butyl alcohol	59	2.423	2.423	(0.581)	421357	1000.00	1094.54
149	Isopropyl alcohol	45	2.086	2.086	(0.500)	225972	1000.00	1123.98
156	Diisopropyl ether	45	2.997	2.997	(0.718)	694223	50.0000	48.13
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	455589	50.0000	52.18
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1117228	50.0000	51.56
167	Ethanol	45	1.696	1.696	(0.406)	35145	1000.00	970.29
172	tert-Butyl formate	59	4.612	4.612	(1.105)	321861	100.000	109.10
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	382221	1000.00	1031.53
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	755473	50.0000	47.14
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.808)	740045	50.0000	48.29
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	321861	1000.00	1077.95
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	796148	1000.00	1027.68
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	455589	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	179486	50.0000	47.03
152	Amyl alcohol	42	6.903	6.903	(0.900)	80529	1000.00	1039.85
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	29872	50.0000	41.49
159	Propylene oxide	43	1.752	1.752	(0.420)	31374	100.000	89.74
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	90116	1000.00	1163.87
162	Butyl acrylate	55	8.249	8.249	(1.076)	537730	50.0000	52.56
182	Epichlorohydrin	57	6.093	6.093	(1.228)	76849	200.000	209.52
M 94	1,2-Dichloroethylene (total)	96				503977	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	517972	50.0000	51.95
130	Ethyl Acetate	43	3.649	3.649	(0.874)	228625	50.0000	52.70
134	Cyclohexanone	55	8.642	8.642	(0.894)	203588	1000.00	1084.70
185	Isoprene	39	1.767	1.767	(0.423)	75671	50.0000	51.09
186	Isopentane	42	1.606	1.606	(0.385)	133112	50.0000	(a)
188	Isopropyl acetate	43	4.669	4.669	(0.941)	671104	50.0000	52.77

187 n-Amyl acetate	43	8.451	8.451 (1.102)	462765	50.0000	50.67
189 n-Butyl acetate	43	7.210	7.210 (0.940)	381904	50.0000	56.76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	267568	1000.00	1309.39
194 Acetaldehyde	44	1.209	1.209	(0.290)	63061	200.000	176.62
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	506408	50.0000	48.63
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	519570	50.0000	49.01
168 1-Propanol	59	2.997	2.997	(0.718)	81101	1000.00	892.62

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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1-Chlorohexane (544-10-5)

Reason Code:

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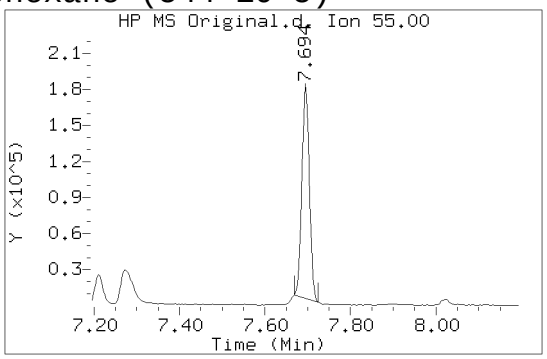

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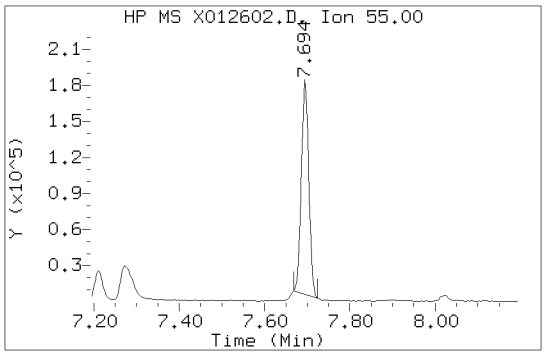

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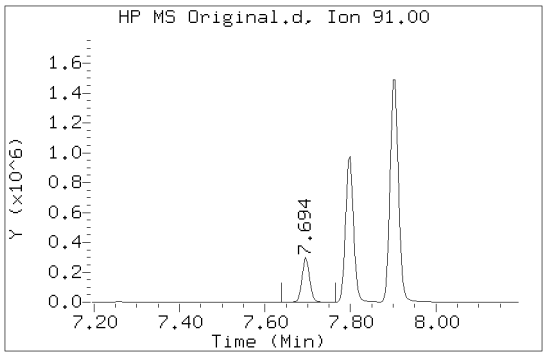

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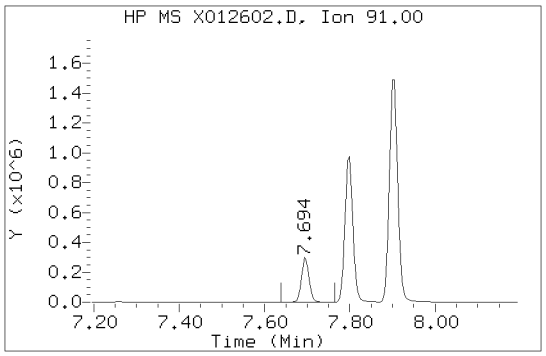

1,2,3-Trichloropropane (96-18-4)

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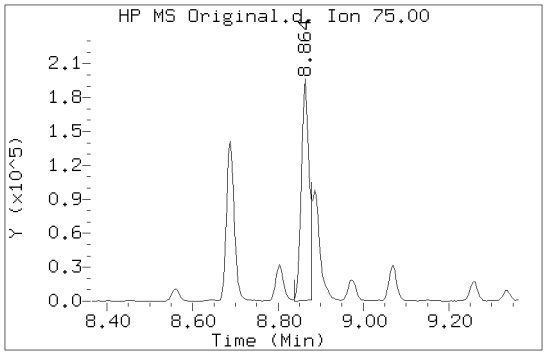

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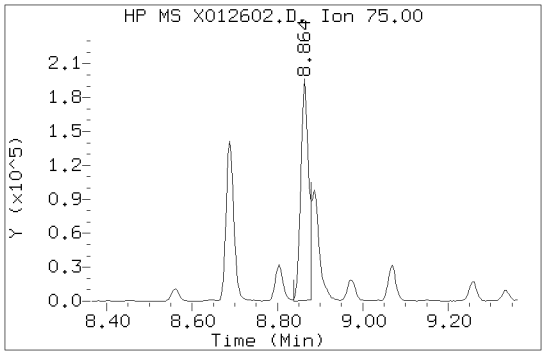

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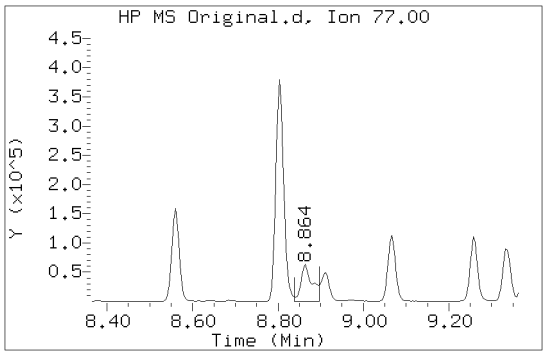

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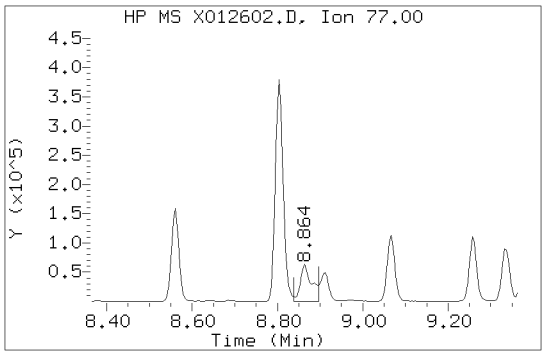

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n-Propylbenzene (106-65-1)

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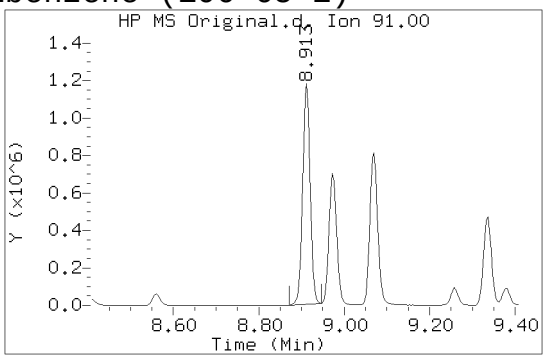

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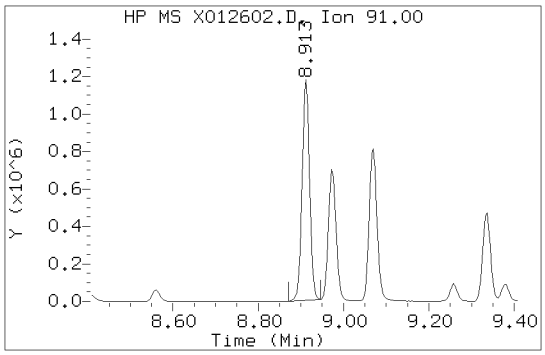

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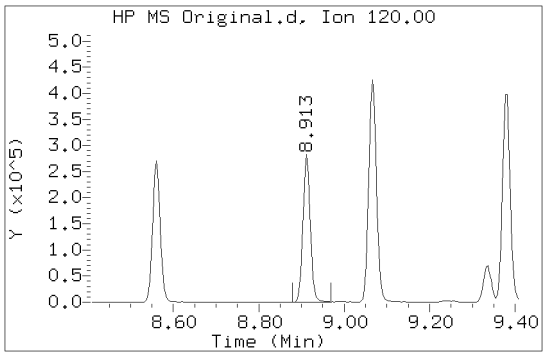

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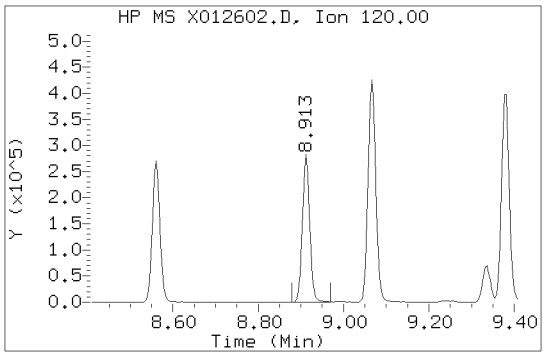

tert-Butylbenzene (98-06-6)

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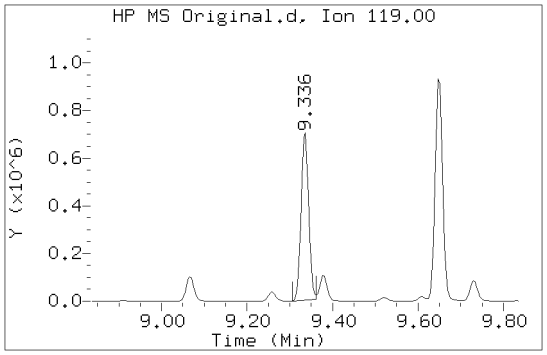

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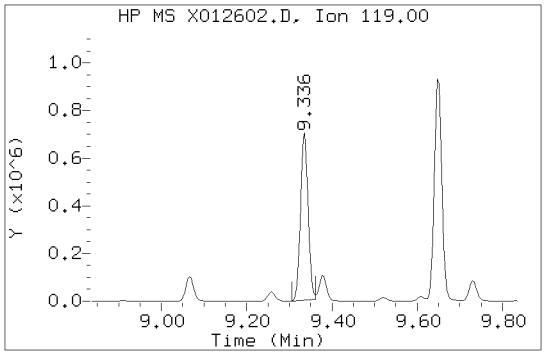

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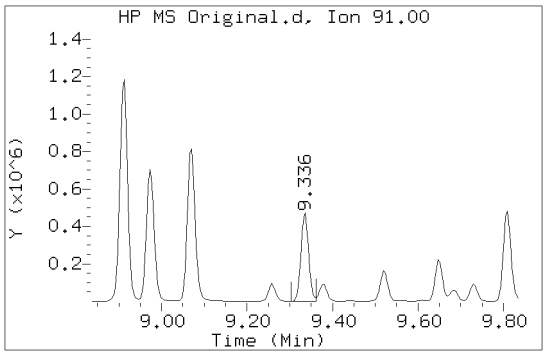

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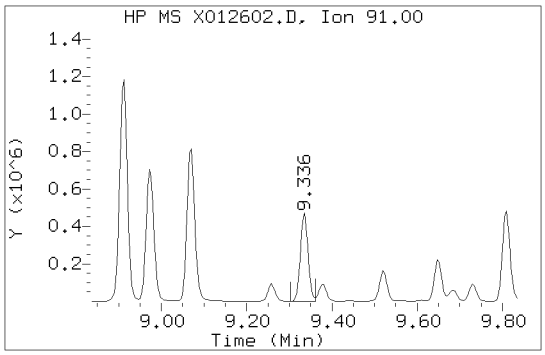

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Inj Date : 26-JAN-2023 08:24
InstruID : voa6.i
LabSampID : CCV

tert-Butylbenzene (98-06-6)

Reason Code:

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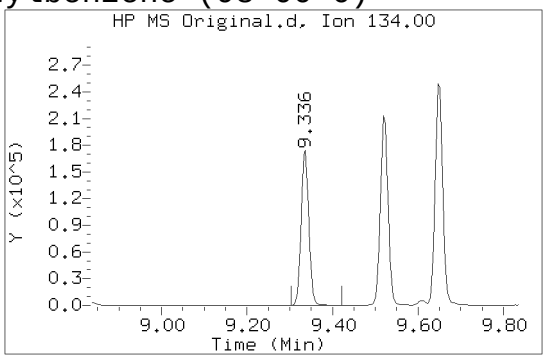

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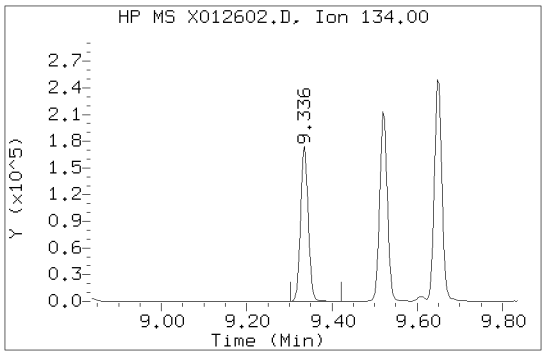

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Hexachlorobutadiene (87-68-3)

Reason Code:

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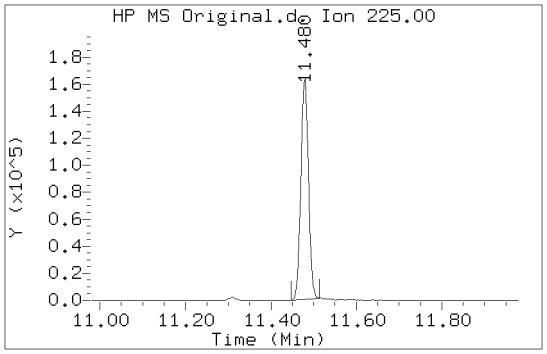

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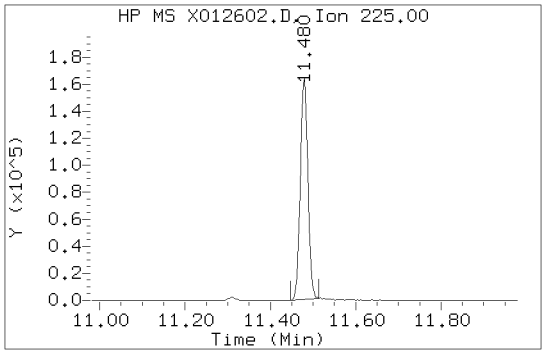

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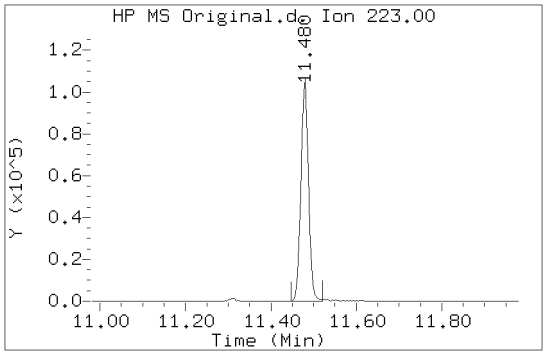

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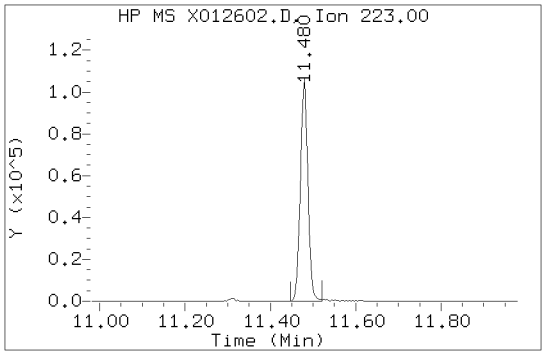

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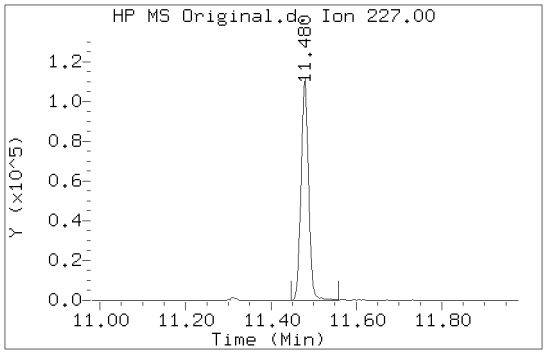

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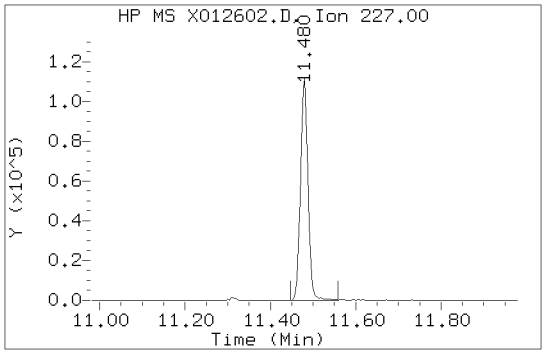

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Inj Date : 26-JAN-2023 08:24
InstruID : voa6.i
LabSampID : CCV

Chloroprene (126-99-8)

Reason Code:

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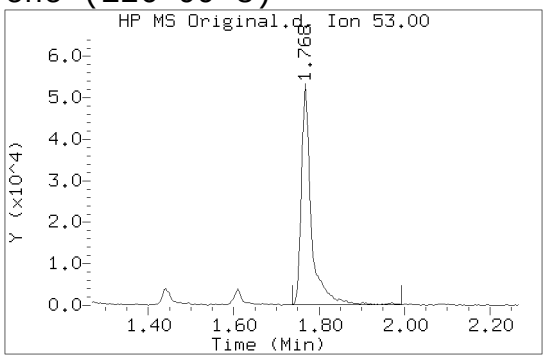

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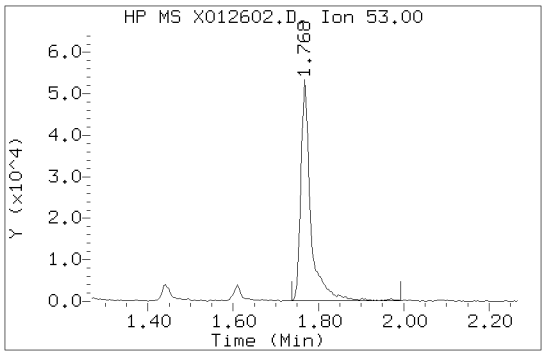

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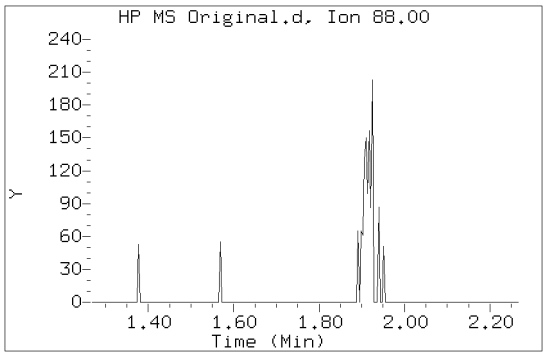

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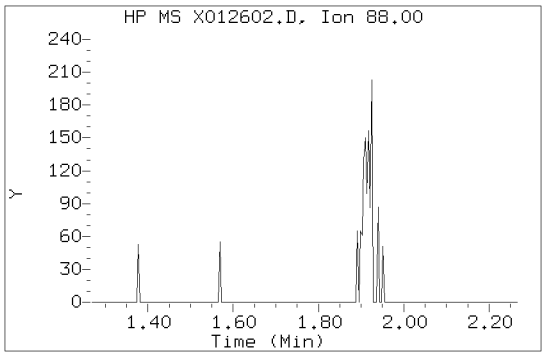

Methyl Acrylate (96-33-3)

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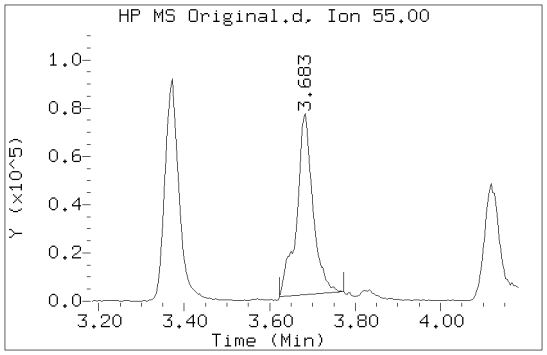

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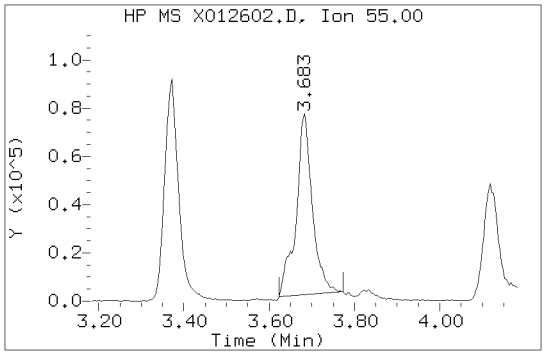

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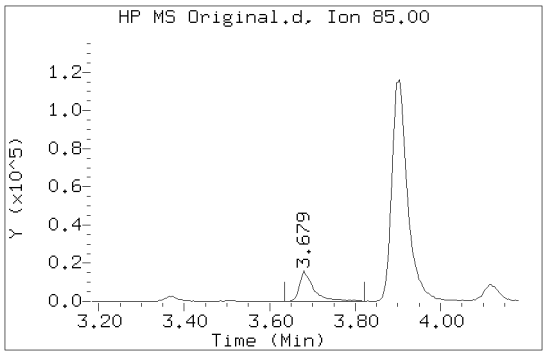

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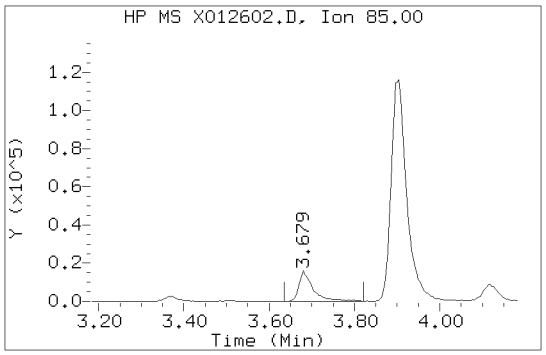

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Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012604.D
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Inj Date : 26-JAN-2023 09:27
Operator : FT Inst ID: voa6.i
Smp Info : VLCSW-230126;VLCSW-230126;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.174	(1.000)	537171	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	67465	18.2088	18.20
3 Chloromethane	50	1.074	1.074	(0.257)	91444	20.1946	20.19
4 Propionitrile	54	3.649	3.645	(0.873)	117507	214.387	214.38(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	91796	19.5623	19.56
6 Bromomethane	94	1.336	1.336	(0.320)	62784	18.8297	18.82
7 Chloroethane	64	1.400	1.400	(0.335)	58413	17.8845	17.88
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	140315	21.3678	21.36
9 Acrolein	56	1.441	1.441	(0.345)	13282	37.9557	37.95
10 Acetone	43	1.970	1.966	(0.472)	56006	37.1361	37.13
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	82777	20.3040	20.30
12 Isobutyl Alcohol	43	4.672	4.669	(1.118)	277930	459.997	459.99(a)
13 Acetonitrile	39	2.194	2.194	(0.525)	110927	226.894	226.89(a)
14 Allyl Chloride	41	2.194	2.194	(0.525)	199827	21.4607	21.46(a)
15 Iodomethane	142	2.022	2.022	(0.484)	207451	41.5981	41.59
16 Acrylonitrile	53	2.532	2.528	(0.606)	60448	43.7168	43.71
17 Methylene Chloride	84	2.299	2.299	(0.550)	110346	19.7323	19.73
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	273814	20.5189	20.51
19 Carbon Disulfide	76	2.067	2.063	(0.495)	454935	42.6503	42.65
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	97758	21.4251	21.42

21 Vinyl Acetate	43	2.993	2.993 (0.716)	526670	44.9597	44.95
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	166052	20.7364	20.73

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012604.D Page 2
Report Date: 13-Feb-2023 13:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	34522	18.9011	18.90(M)
24	2-Butanone	43	3.574	3.570	(0.856)	61825	40.5259	40.52
25	Methacrylonitrile	41	3.818	3.814	(0.914)	78974	20.7628	20.76(a)
26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	154607	22.7396	22.73
27	cis-1,2-Dichloroethene	96	3.525	3.521	(0.844)	111254	20.0356	20.03
28	Chloroform	83	3.900	3.900	(0.934)	189668	21.1325	21.13
29	Bromochloromethane	128	3.795	3.788	(0.908)	58017	19.0827	19.08
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.980)	250606	48.5821	48.58
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	165820	23.2860	23.28
32	1,1-Dichloropropene	75	4.279	4.275	(0.862)	136342	23.9118	23.91
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	147582	22.4276	22.42
34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	142896	23.4687	23.46
$ 35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	290932	53.4214	53.42
* 36	1,4-Difluorobenzene	114	4.965	4.961	(1.000)	803137	50.0000	
37	Benzene	78	4.507	4.507	(0.908)	406035	21.1711	21.17
38	Trichloroethene	130	5.205	5.205	(1.048)	119064	21.8880	21.88
39	Bromodichloromethane	83	5.726	5.722	(1.153)	147364	20.4739	20.47
40	Methyl Methacrylate	41	5.606	5.602	(1.342)	83981	22.9286	22.92(a)
41	2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	93040	45.4365	45.43
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	103673	20.3215	20.32
43	2-Nitropropane	43	5.969	5.966	(1.429)	28621	21.0994	21.09
44	Dibromomethane	93	5.549	5.549	(1.118)	70894	20.4447	20.44
45	4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	177452	43.8707	43.87
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	177591	21.0091	21.00
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	756761	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	915254	48.9438	48.94
49	Ethyl Methacrylate	69	6.708	6.708	(1.351)	81639	21.5861	21.58(a)
50	Toluene	91	6.445	6.445	(0.841)	455814	21.7915	21.79
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	150692	21.4813	21.48
52	2-Hexanone	43	7.086	7.083	(0.924)	124313	45.1717	45.17
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	87433	20.8356	20.83
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	170458	20.6372	20.63
55	Dibromochloromethane	129	7.173	7.173	(0.935)	125228	20.6767	20.67
56	Tetrachloroethene	164	6.925	6.925	(0.903)	102993	23.7978	23.79
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	111979	21.3429	21.34
58	1-Chlorohexane	55	7.694	7.694	(1.550)	98267	25.3181	25.31(M)
59	Chlorobenzene	112	7.694	7.694	(1.003)	310640	20.9377	20.93
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	115115	20.8491	20.84
61	Ethylbenzene	106	7.799	7.799	(1.017)	158612	22.6955	22.69
62	m,p-Xylenes	106	7.904	7.904	(1.031)	402861	44.7164	44.71
63	o-Xylene	106	8.241	8.237	(1.075)	191755	21.5648	21.56
64	Styrene	104	8.260	8.256	(1.077)	328286	22.0265	22.02
66	Bromoform	173	8.410	8.410	(1.097)	84640	20.1724	20.17
67	Isopropylbenzene	105	8.560	8.560	(1.116)	502381	24.7295	24.72
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	138112	19.9731	19.97
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	359078	51.3697	51.36
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	433848	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	105681	21.8916	21.89(M)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	34671	21.2229	21.22(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	595429	24.7772	24.77
74	Bromobenzene	156	8.803	8.803	(0.911)	146536	20.5869	20.58
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	430228	24.2345	24.23

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	363965	23.0801	23.08
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	418511	23.2801	23.28

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012604.D Page 3
Report Date: 13-Feb-2023 13:32

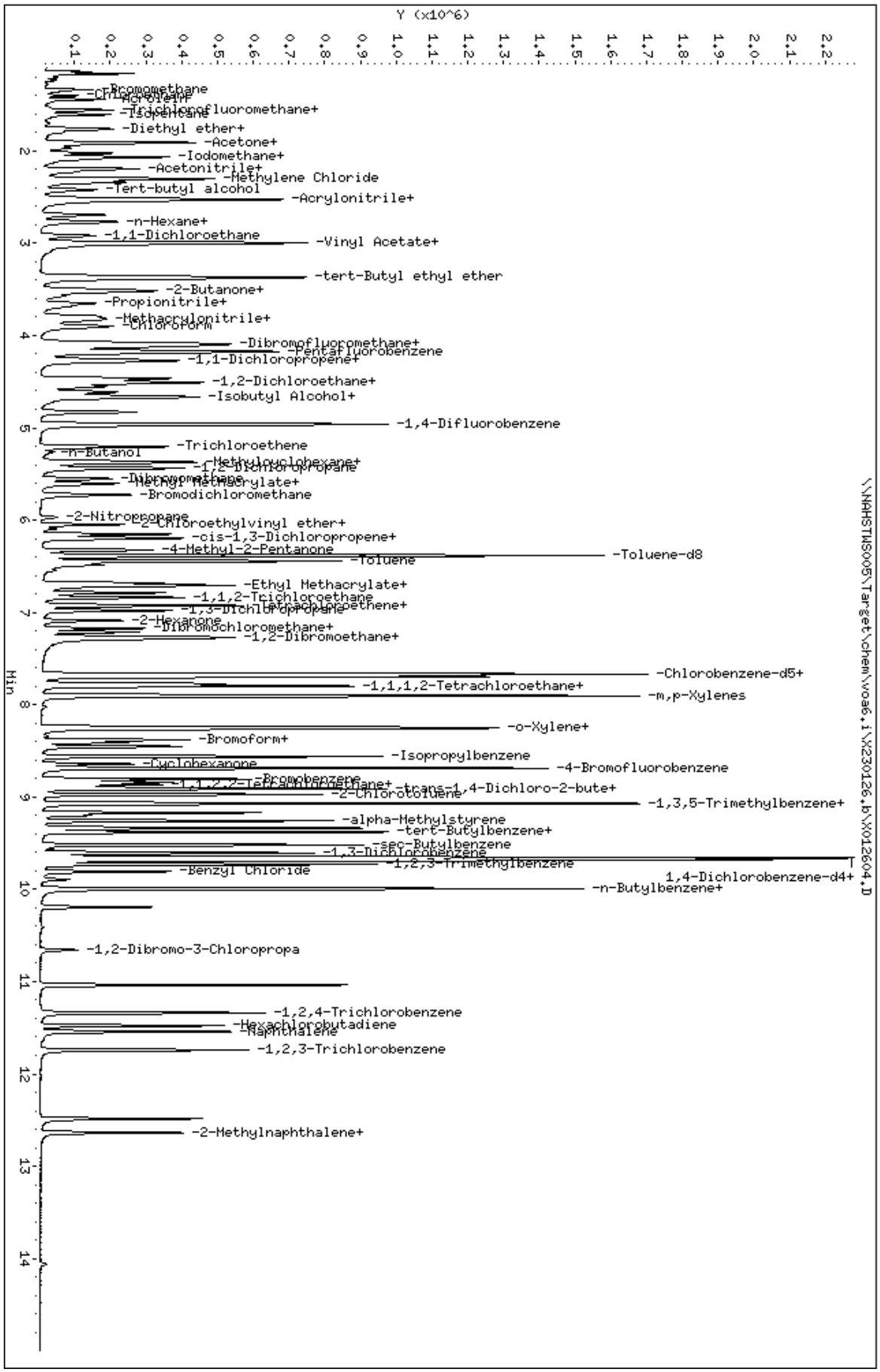
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	362035	24.9134	24.91
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	431299	23.0895	23.08
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	511869	26.4737	26.47
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	447621	25.8352	25.83
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	258813	21.9070	21.90
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	276140	21.4196	21.41
86	Benzyl Chloride	91	9.808	9.808	(1.279)	213193	19.7258	19.72
87	n-Butylbenzene	91	9.995	9.992	(1.035)	396124	24.6561	24.65
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	255821	21.0253	21.02
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	22469	20.3790	20.37
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	182969	23.8283	23.82
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	84634	24.9930	24.99
92	Naphthalene	128	11.544	11.540	(1.195)	390628	22.3589	22.35
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	168270	22.8810	22.88
146	Methyl acetate	43	2.228	2.224	(0.533)	52579	21.7525	21.75
138	Freon TF	101	1.913	1.910	(0.458)	88014	22.3206	22.32
141	Cyclohexane	56	4.121	4.118	(0.987)	144061	27.1961	27.19
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	28817	41.3524	41.35
147	Methylcyclohexane	55	5.377	5.373	(1.083)	237801	24.1887	24.18
135	1,4-Dioxane	88	5.598	5.594	(1.340)	21554	438.955	438.95
132	n-Butanol	56	5.261	5.253	(1.259)	23784	383.421	383.42(a)
131	Methyl Acrylate	55	3.686	3.683	(0.882)	83161	22.8031	22.80
133	Ethyl Acrylate	55	5.377	5.373	(1.287)	237801	23.5970	23.59
136	n-Hexane	57	2.768	2.768	(0.663)	103629	26.7935	26.79
139	Diethyl ether	59	1.752	1.752	(0.419)	63502	17.6922	17.69
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	177925	478.351	478.35
149	Isopropyl alcohol	45	2.089	2.086	(0.500)	94858	488.323	488.32
156	Diisopropyl ether	45	2.997	2.997	(0.717)	287689	20.6455	20.64
160	2-Methylnaphthalene	142	12.638	12.634	(1.308)	178617	21.2204	21.22
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	441842	21.1489	21.14
167	Ethanol	45	1.700	1.696	(0.407)	15636	444.999	444.99
172	tert-Butyl formate	59	4.612	4.612	(1.104)	131551	46.1519	46.15
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	152954	427.184	427.18
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	322150	20.8051	20.80
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	304068	20.5356	20.53
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	131551	455.985	455.98
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	306723	403.500	403.49
180	1-Methylnaphthalene	142	12.638	12.634	(1.308)	178617		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	73321	19.8880	19.88
152	Amyl alcohol	42	6.906	6.903	(0.901)	26035	347.906	347.90
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	12453	17.9041	17.90
159	Propylene oxide	43	1.752	1.752	(0.419)	13448	39.8110	39.81
161	3-Methyl-1-butanol	55	6.910	6.903	(0.901)	31653	423.059	423.05
162	Butyl acrylate	55	8.252	8.249	(1.076)	207368	20.9772	20.97
182	Epichlorohydrin	57	6.097	6.093	(1.228)	30107	85.1584	85.15
M 94	1,2-Dichloroethylene (total)	96				209012	41.4607	41.46
M 95	Xylenes (total)	106				594616	66.2811	66.28
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	201842	20.9970	20.99
130	Ethyl Acetate	43	3.653	3.649	(0.874)	94150	22.4614	22.46
134	Cyclohexanone	55	8.642	8.642	(0.894)	83808	463.091	463.09(a)
185	Isoprene	39	1.767	1.767	(0.423)	31011	21.6703	21.67
186	Isopentane	42	1.610	1.606	(0.385)	53078		(a)

188 Isopropyl acetate	43	4.672	4.669 (0.941)	278118	22.2890	22.28
187 n-Amyl acetate	43	8.451	8.451 (1.102)	185422	21.0126	21.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	154531	23.7713	23.77
150 Allyl alcohol	57	2.768	2.768	(0.663)	103629	524.862	524.86
194 Acetaldehyde	44	1.209	1.209	(0.289)	68580	201.723	201.72
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	206149	20.4888	20.48
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	203138	19.8336	19.83
168 1-Propanol	59	2.997	2.997	(0.717)	32114	365.817	365.81

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Date : 26-JAN-2023 09:27
Client ID: VLCSW-230126
Sample Info: VLCSW-230126;VLCSW-230126;3;;LCS
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6,i
Operator: FT
Column diameter: 0.18
Page 1
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Isopentane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-n-Butanol
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-Tetrachloroethene+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene+

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Inj Date : 26-JAN-2023 09:27
InstruID : voa6.i
LabSampID : VLCSW-230126

1-Chlorohexane (544-10-5)

Reason Code:

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13-Feb-2023
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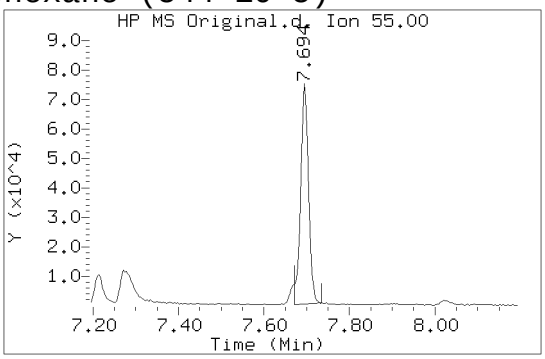

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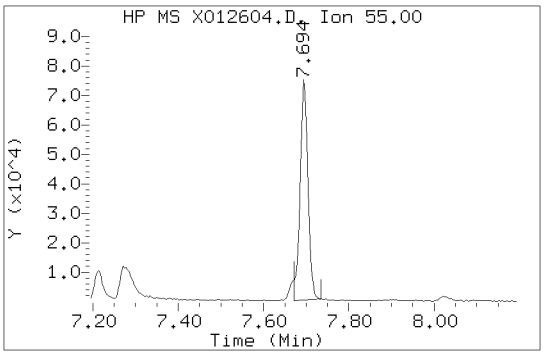

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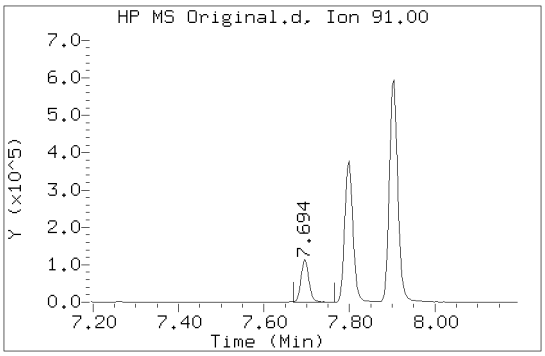

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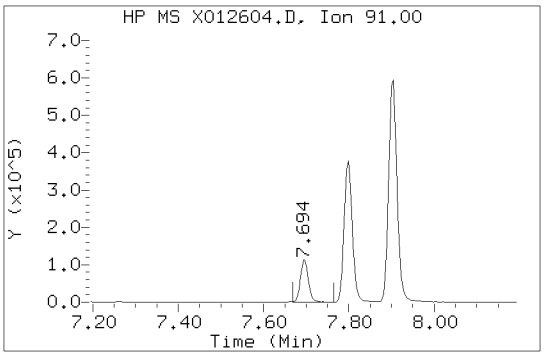

1,2,3-Trichloropropane (96-18-4)

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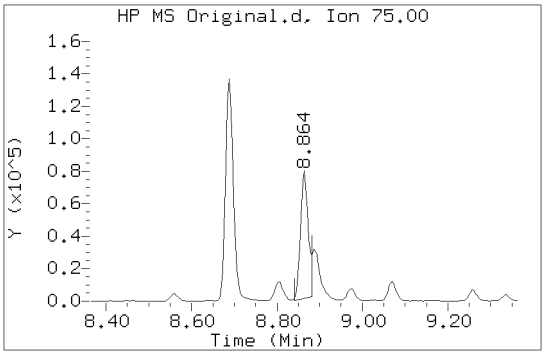

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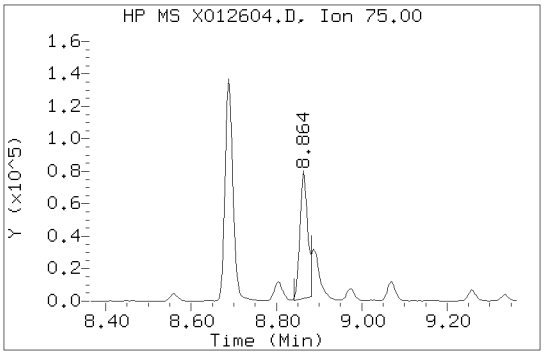

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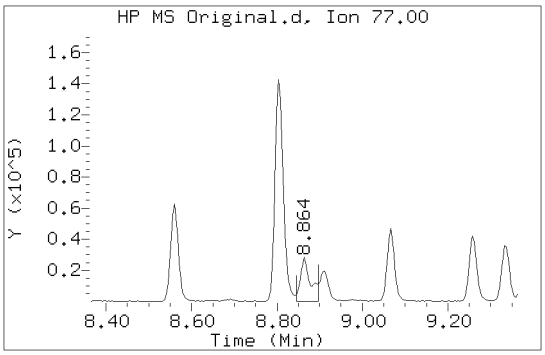

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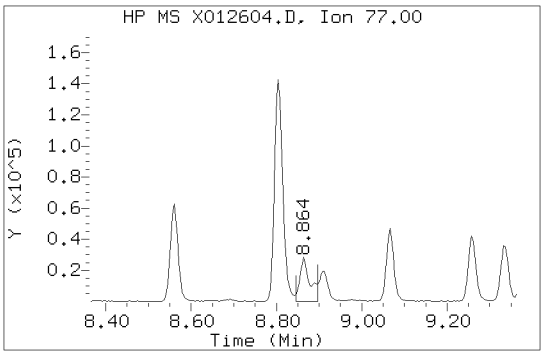

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Inj Date : 26-JAN-2023 09:27
InstruID : voa6.i
LabSampID : VLCSW-230126

Chloroprene (126-99-8)

Reason Code:

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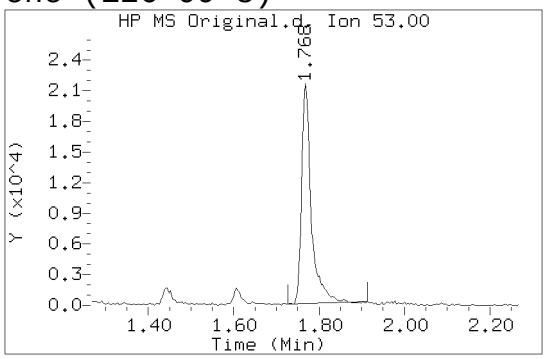

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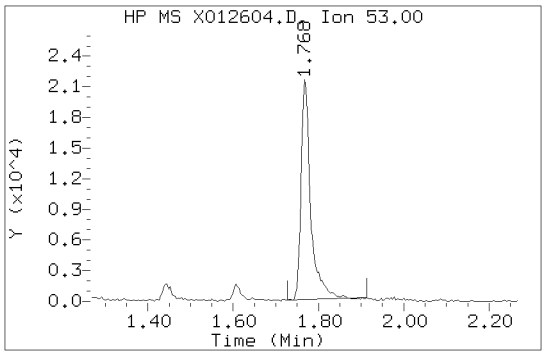

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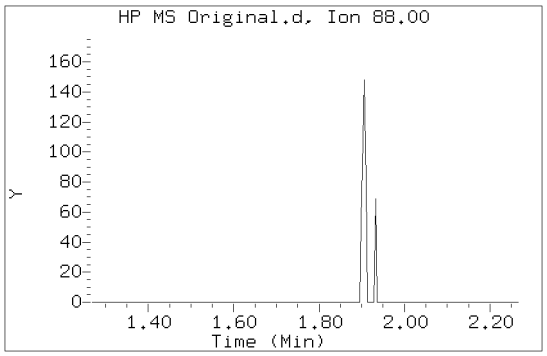

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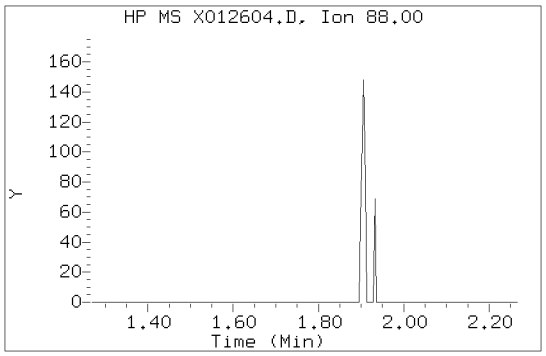

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Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012606.D
Lab Smp Id: VBLKW-230126 Client Smp ID: VBLKW-230126
Inj Date : 26-JAN-2023 10:09
Operator : FT Inst ID: voa6.i
Smp Info : VBLKW-230126;VBLKW-230126;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

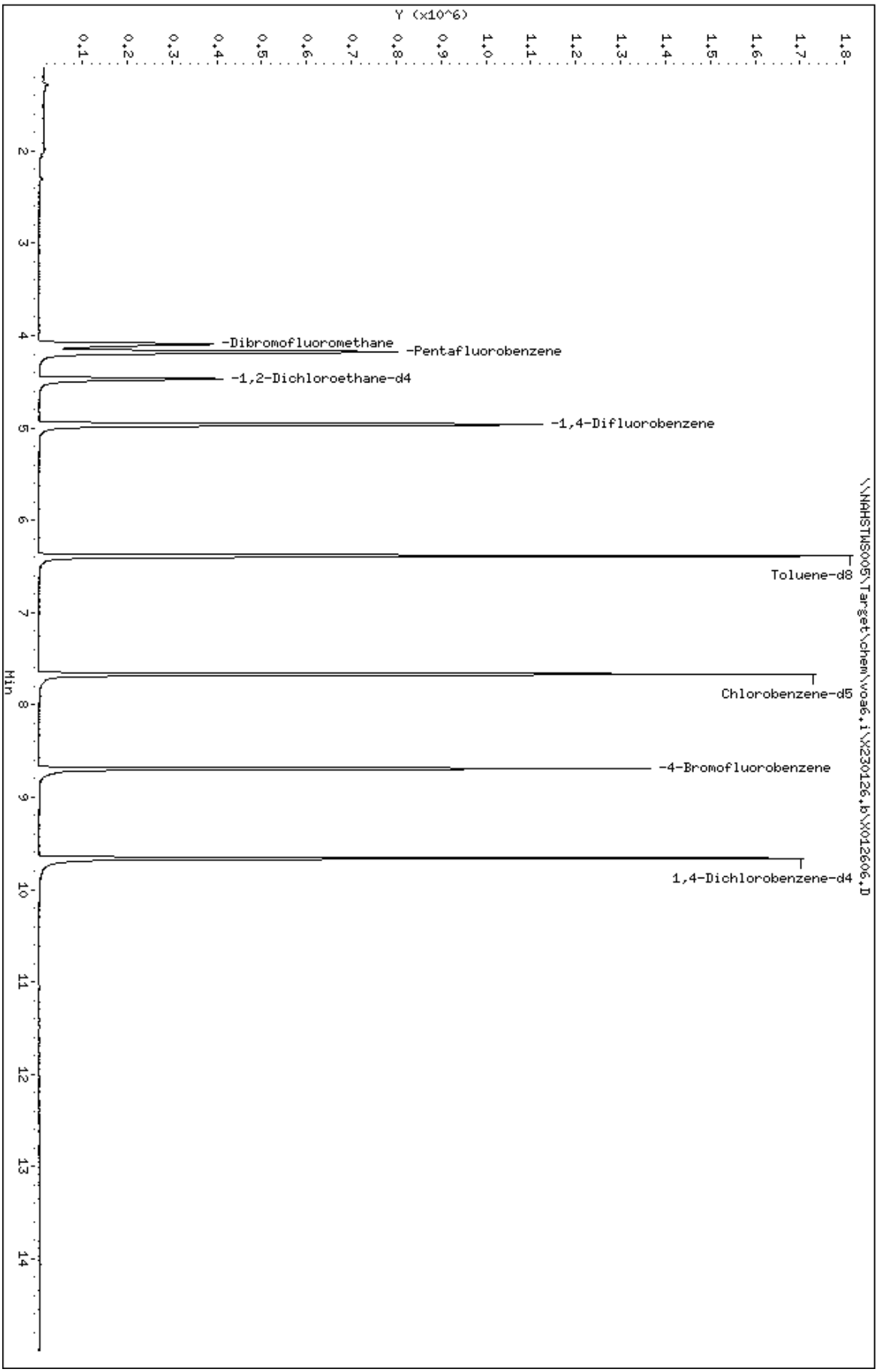
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	656022	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	287740	45.6651	45.66
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	331077	49.7976	49.79
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	934312	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	832965	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1070734	52.0199	52.01
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	382478	49.7136	49.71
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	425726	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012606.D
Date : 26-JAN-2023 10:09
Client ID: VBLKW-230126
Sample Info: VBLKW-230126;VBLKW-230126;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18



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Inj Date : 26-JAN-2023 10:09
InstruID : voa6.i
LabSampID : VBLKW-230126

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012607.D Page 1
Report Date: 16-Feb-2023 14:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012607.D
Lab Smp Id: HS23011136-04 Client Smp ID: HS23011136-04
Inj Date : 26-JAN-2023 10:30
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-04;HS23011136-04;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

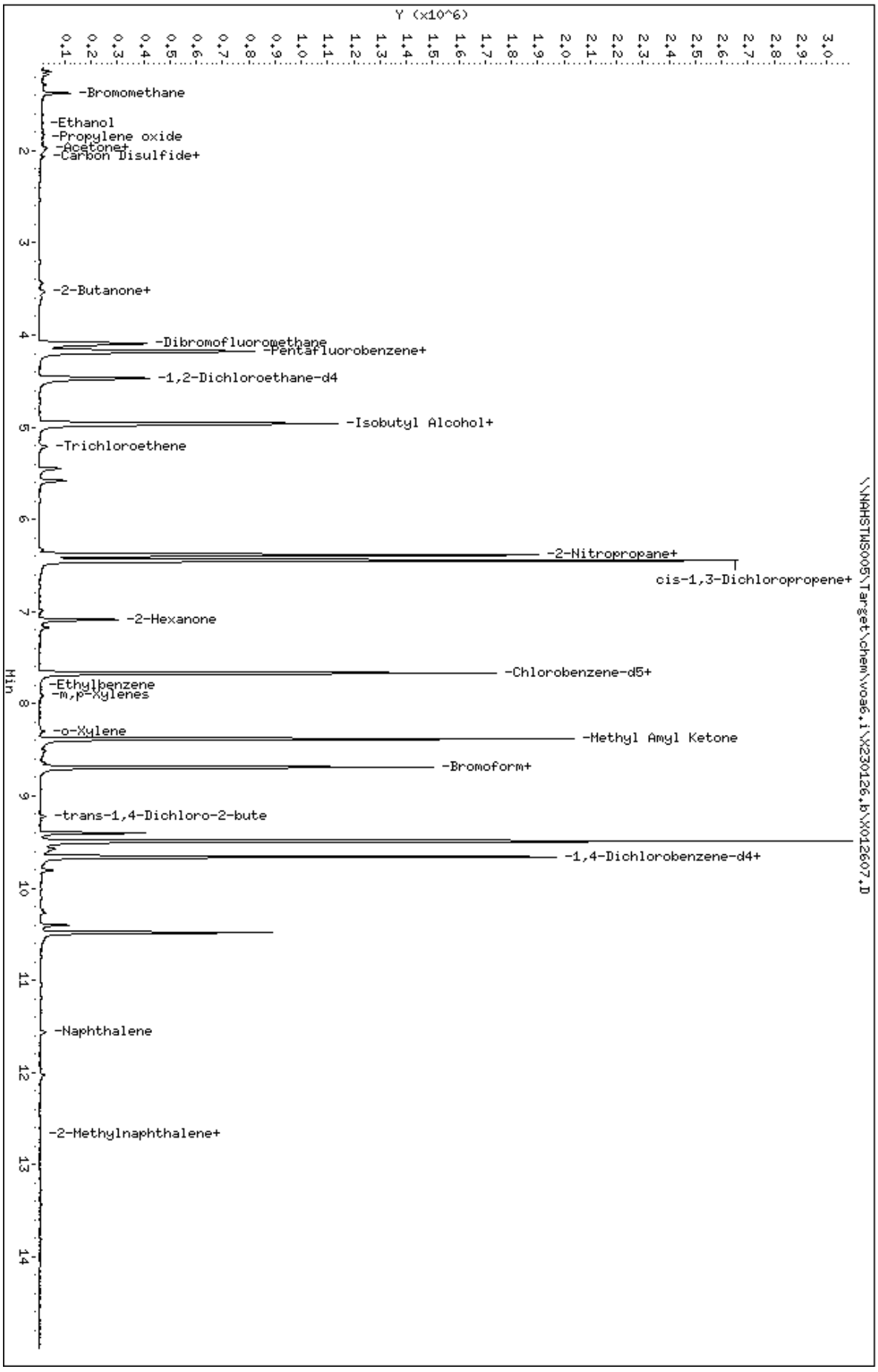
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.174	4.174	(1.000)	664054	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.091	(0.981)	291548	45.7100	45.70
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	329414	48.9528	48.95
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	938183	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	844450	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	1091918	52.3276	52.32
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	397319	50.9386	50.93
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	447049	50.0000	
5 Vinyl Chloride	62	1.141	1.137	(0.273)	24571	4.23573	4.23(a)
27 cis-1,2-Dichloroethene	96	3.525	3.521	(0.845)	13032	1.89848	1.89(a)
38 Trichloroethene	130	5.208	5.201	(1.050)	9988	1.57183	1.57(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



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Sample Info: HS23011136-04;HS23011136-04;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012607.D

Date : 26-JAN-2023 10:30

Client ID: HS23011136-04

Instrument: voa6.i

Sample Info: HS23011136-04;HS23011136-04;;;

Purge Volume: 5.0

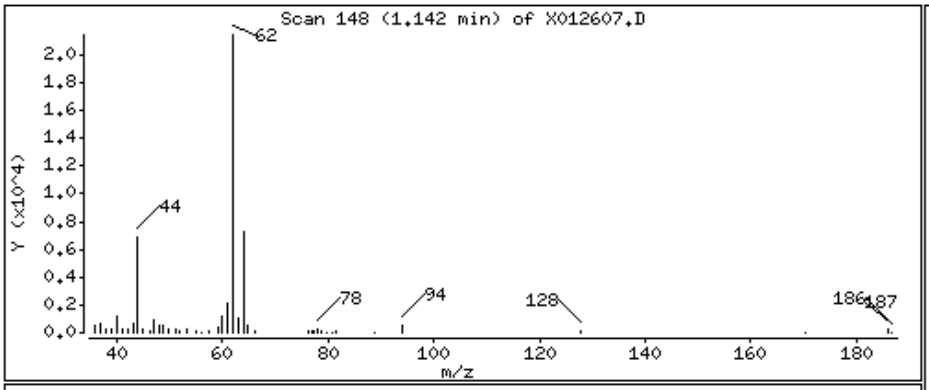
Operator: FT

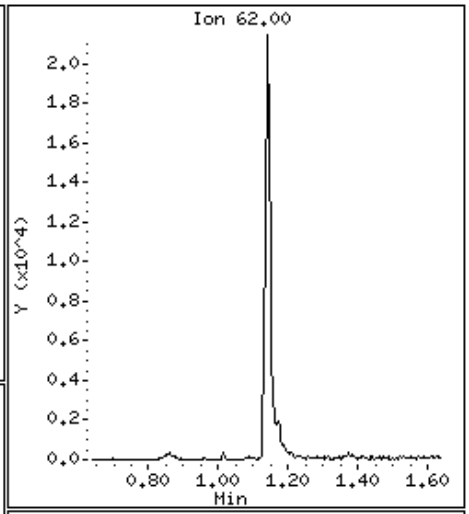
Column phase: DB624

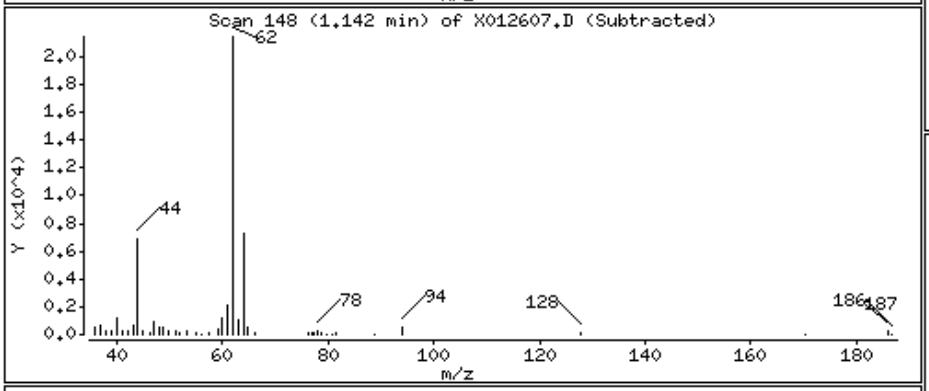
Column diameter: 0.18

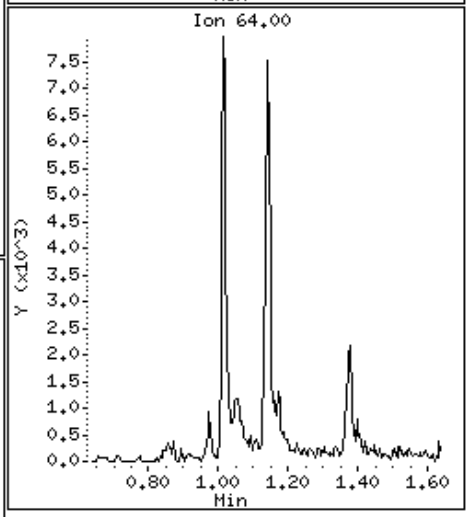
5 Vinyl Chloride

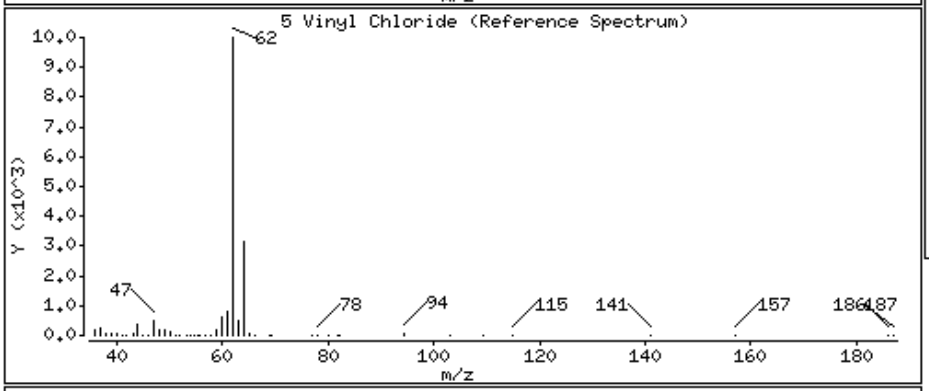
Concentration: 4.23 ug/l

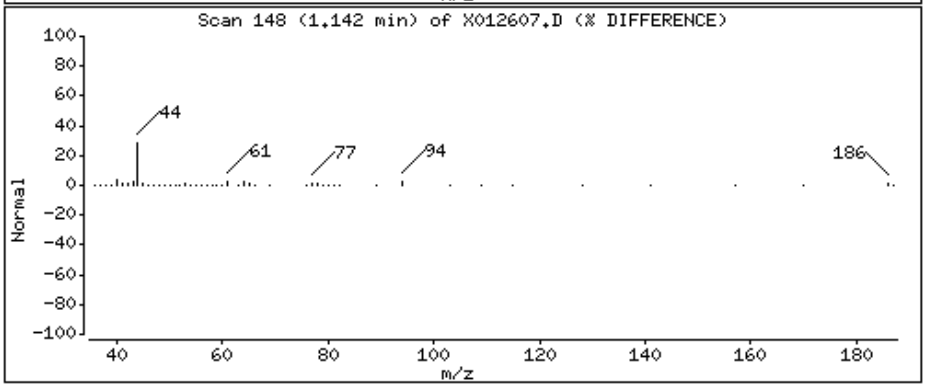












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012607.D Page 3

Date : 26-JAN-2023 10:30

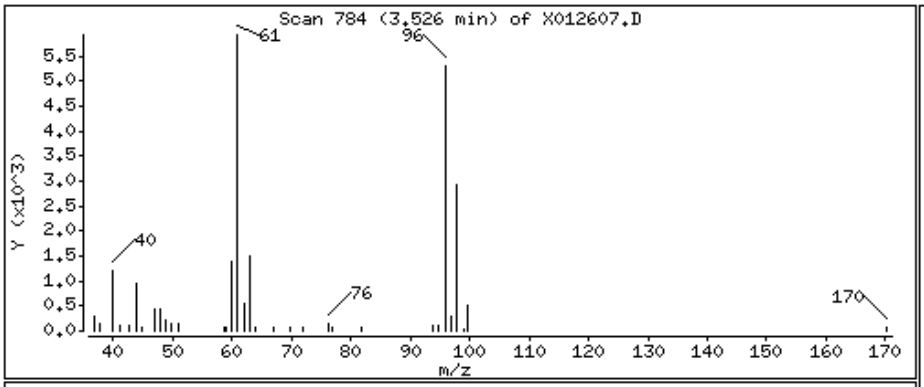
Client ID: HS23011136-04 Instrument: voa6.i

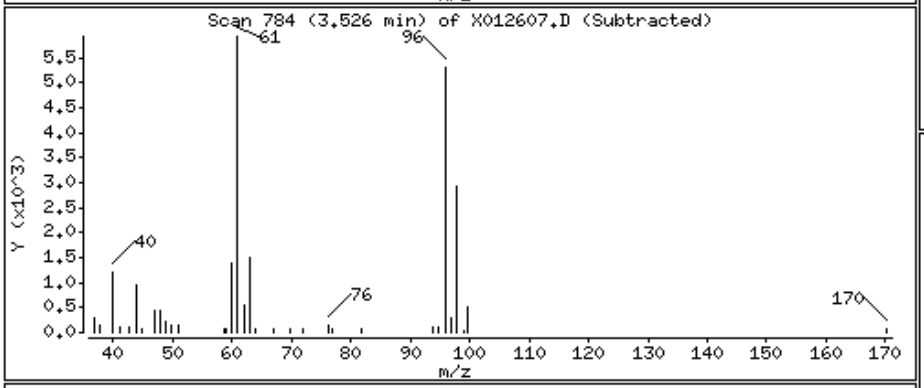
Sample Info: HS23011136-04;HS23011136-04;;;

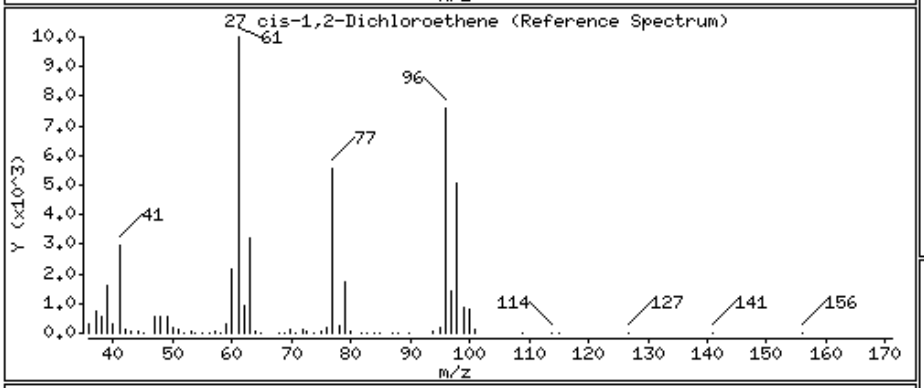
Purge Volume: 5.0 Operator: FT

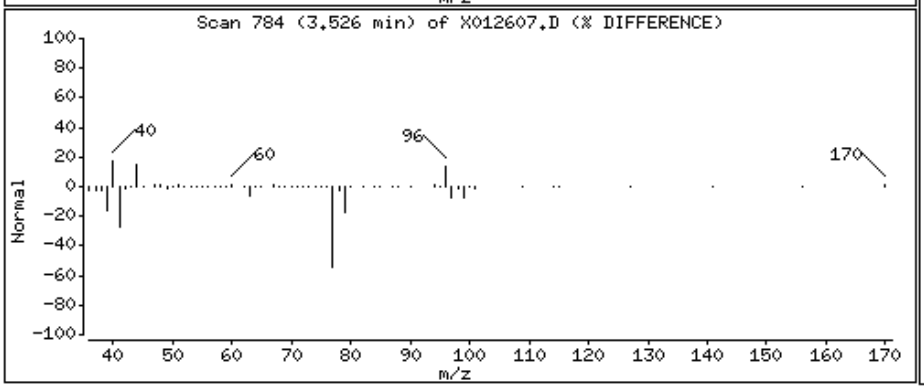
Column phase: DB624 Column diameter: 0.18

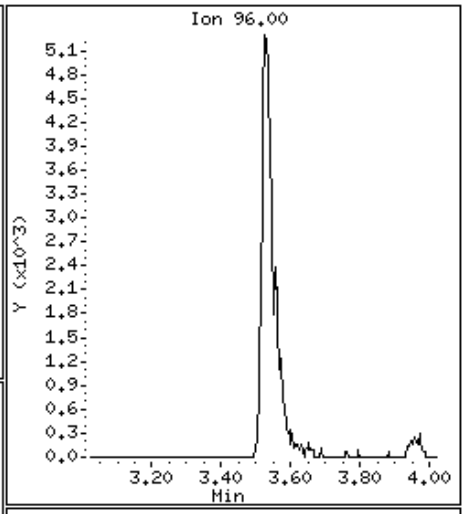
27 cis-1,2-Dichloroethene Concentration: 1.89 ug/l

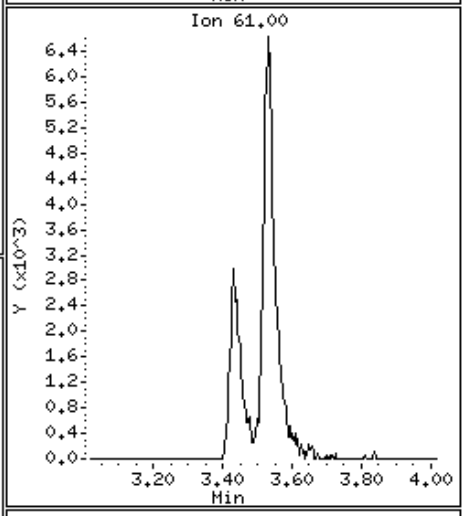


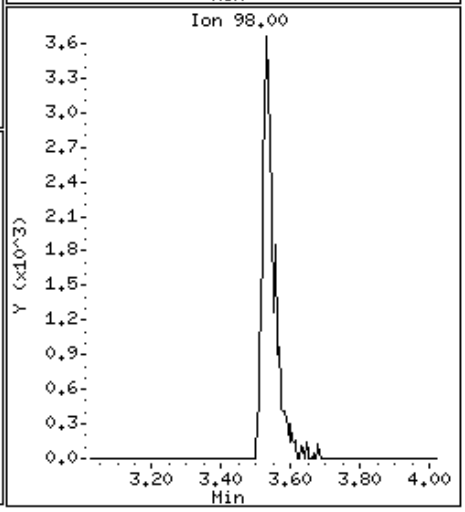












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012607.D Page 4

Date : 26-JAN-2023 10:30

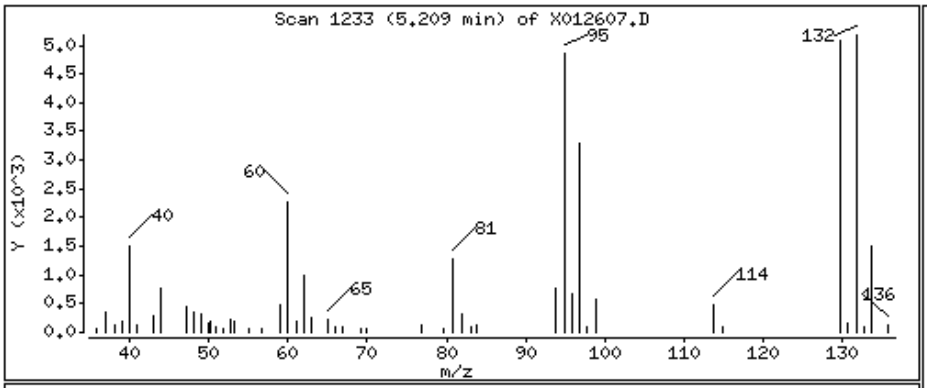
Client ID: HS23011136-04 Instrument: voa6.i

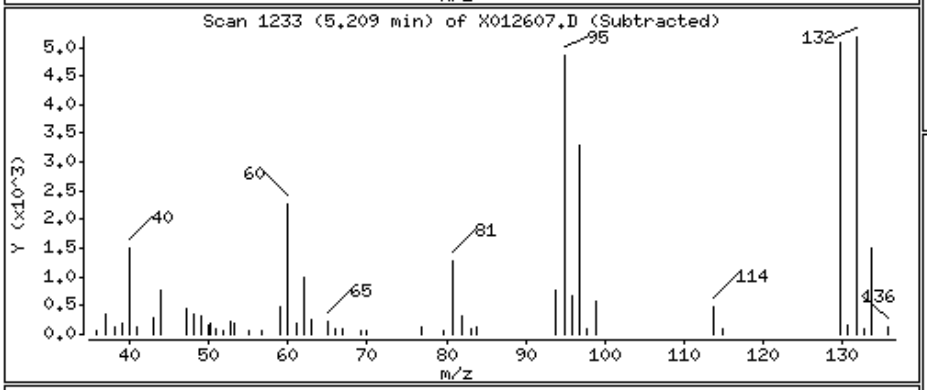
Sample Info: HS23011136-04;HS23011136-04;;;

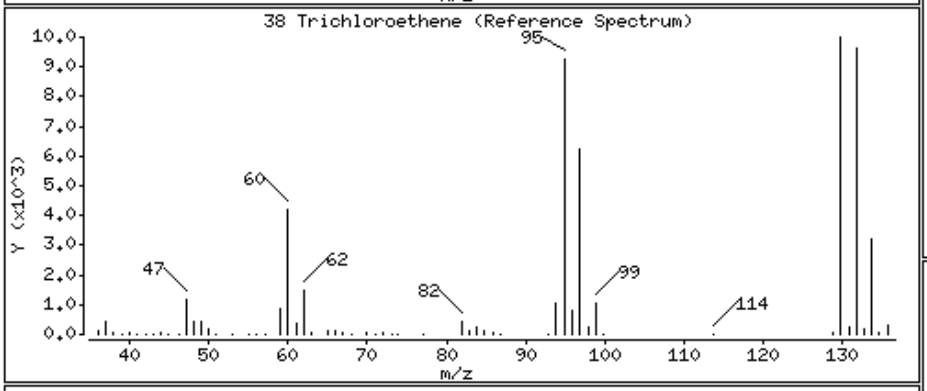
Purge Volume: 5.0 Operator: FT

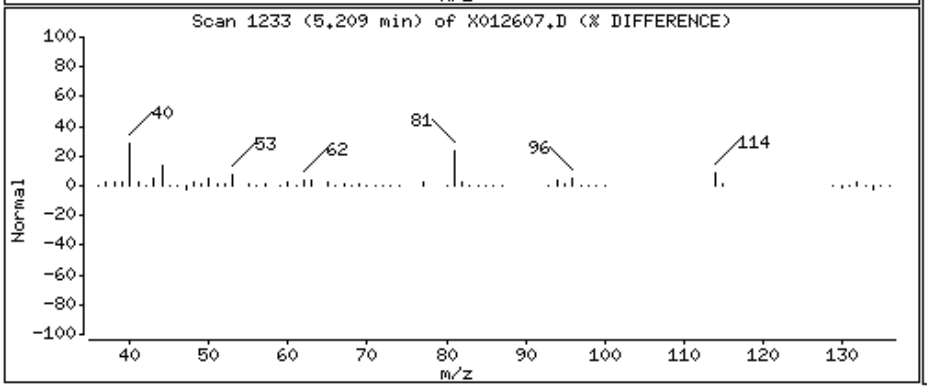
Column phase: DB624 Column diameter: 0.18

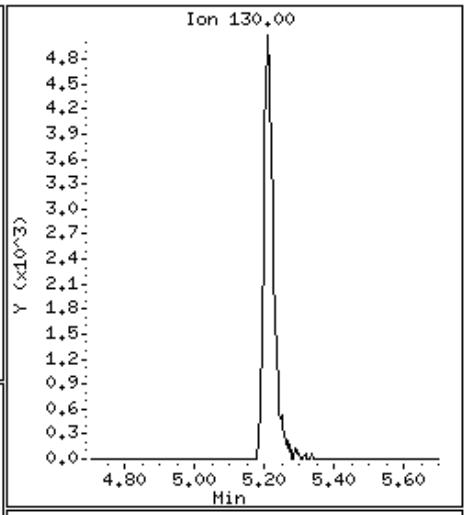
38 Trichloroethene Concentration: 1.57 ug/l

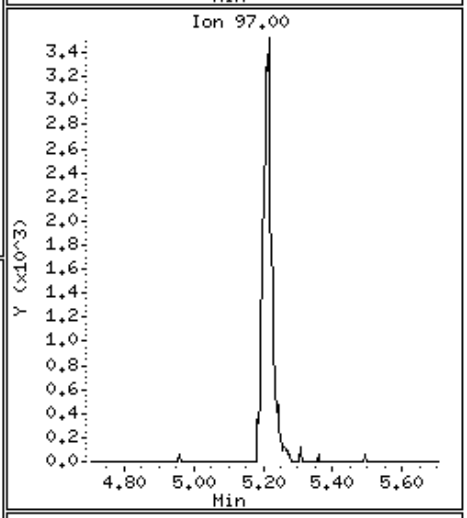


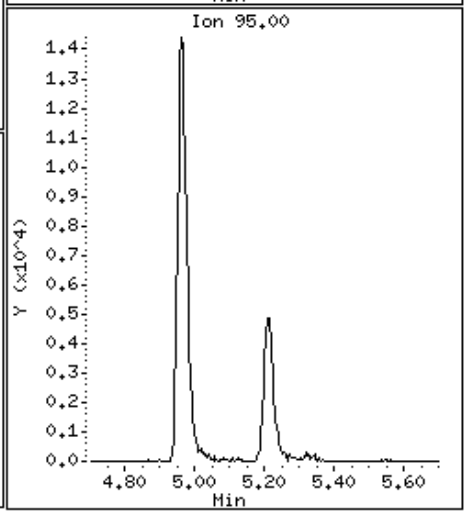












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Inj Date : 26-JAN-2023 10:30
InstruID : voa6.i
LabSampID : HS23011136-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012608.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012608.D
Lab Smp Id: HS23011136-04MS Client Smp ID: HS23011136-04MS
Inj Date : 26-JAN-2023 10:51
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-04MS;HS23011136-04MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.174	4.174	(1.000)	677446	50.0000	
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	63045	13.5942	13.59
3	Chloromethane	50	1.074	1.074	(0.257)	85178	15.4939	15.49
4	Propionitrile	54	3.645	3.645	(0.873)	109202	157.980	157.98(a)
5	Vinyl Chloride	62	1.141	1.141	(0.274)	117902	19.9230	19.92
6	Bromomethane	94	1.336	1.336	(0.320)	63012	15.3452	15.34
7	Chloroethane	64	1.400	1.400	(0.335)	62323	15.1305	15.13
8	Trichlorofluoromethane	101	1.554	1.557	(0.372)	147068	17.7588	17.75
9	Acrolein	56	1.441	1.441	(0.345)	15745	35.8469	35.84
10	Acetone	43	1.966	1.966	(0.471)	62933	33.0848	33.08
11	1,1-Dichloroethene	96	1.910	1.910	(0.458)	87151	16.9505	16.95
12	Isobutyl Alcohol	43	4.672	4.669	(1.119)	254830	334.432	334.43(a)
13	Acetonitrile	39	2.195	2.194	(0.526)	115205	186.851	186.85(a)
14	Allyl Chloride	41	2.195	2.194	(0.526)	203103	17.2959	17.29(a)
15	Iodomethane	142	2.022	2.022	(0.485)	201500	32.9075	32.90
16	Acrylonitrile	53	2.532	2.528	(0.607)	60400	34.6371	34.63
17	Methylene Chloride	84	2.300	2.299	(0.551)	100902	14.3073	14.30
18	Methyl tert-butyl ether	73	2.528	2.528	(0.606)	277206	16.4717	16.47
19	Carbon Disulfide	76	2.063	2.063	(0.494)	489655	36.4000	36.39
20	trans-1,2-Dichloroethene	96	2.528	2.524	(0.606)	98412	17.1024	17.10

21 Vinyl Acetate	43	2.993	2.993 (0.717)	499516	33.8121	33.81
22 1,1-Dichloroethane	63	2.914	2.918 (0.698)	163240	16.1642	16.16

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012608.D Page 2
Report Date: 13-Feb-2023 13:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	39081	16.9666	16.96(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	75661	39.4155	39.41
	25 Methacrylonitrile	41	3.822	3.814	(0.916)	74558	15.5430	15.54(a)
	26 2,2-Dichloropropane	77	3.507	3.506	(0.840)	157962	18.4223	18.42
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	119326	17.0396	17.03
	28 Chloroform	83	3.900	3.900	(0.934)	184478	16.2982	16.29
	29 Bromochloromethane	128	3.792	3.788	(0.908)	55969	14.5972	14.59
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	296519	45.5698	45.56
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.978)	166322	18.5202	18.52
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	139520	21.0209	21.02
	33 1,2-Dichloroethane	62	4.553	4.552	(0.918)	147007	19.1920	19.19
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	143257	20.2124	20.21
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	341523	49.7445	49.74
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	934883	50.0000	
	37 Benzene	78	4.508	4.507	(0.909)	399837	17.9100	17.91
	38 Trichloroethene	130	5.205	5.205	(1.049)	127035	20.0623	20.06
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	140118	16.7239	16.72
	40 Methyl Methacrylate	41	5.606	5.602	(1.343)	79218	17.1497	17.14(a)
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	98470	16.5816	16.58
	43 2-Nitropropane	43	5.966	5.966	(1.429)	27117	15.8513	15.85
	44 Dibromomethane	93	5.553	5.549	(1.119)	66732	16.5325	16.53
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	168707	37.2812	37.28
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	166412	16.9124	16.91
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	846633	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	1099361	52.5485	52.54
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	80659	18.3215	18.32(a)
	50 Toluene	91	6.442	6.445	(0.840)	2132364	91.1221	91.12
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	140722	17.2332	17.23
	52 2-Hexanone	43	7.083	7.083	(0.924)	298301	96.8876	96.88
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	79455	16.9245	16.92
	54 1,3-Dichloropropane	76	6.982	6.981	(0.911)	161084	17.4321	17.43
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	117068	17.2775	17.27
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	103619	21.4009	21.40
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	103412	17.6178	17.61
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	107654	23.8279	23.82
	59 Chlorobenzene	112	7.694	7.694	(1.003)	299616	18.0510	18.05
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	108575	17.5772	17.57
	61 Ethylbenzene	106	7.799	7.799	(1.017)	157409	20.1324	20.13
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	393234	39.0145	39.01
	63 o-Xylene	106	8.241	8.237	(1.075)	187245	18.8223	18.82
	64 Styrene	104	8.260	8.256	(1.077)	313845	18.8222	18.82
	66 Bromoform	173	8.410	8.410	(1.097)	77136	16.4325	16.43
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	495716	21.8111	21.81
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	131829	17.6736	17.67
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	404900	51.7756	51.77
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	467991	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	139021	26.6969	26.69
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	33537	18.3496	18.34(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	585931	22.6031	22.60
	74 Bromobenzene	156	8.803	8.803	(0.911)	141337	18.4078	18.40
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	419052	21.8828	21.88
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	348303	20.4756	20.47

77	4-Chlorotoluene	91	9.070	9.069 (0.939)	403687	20.8173	20.81
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	357855	22.8291	22.82

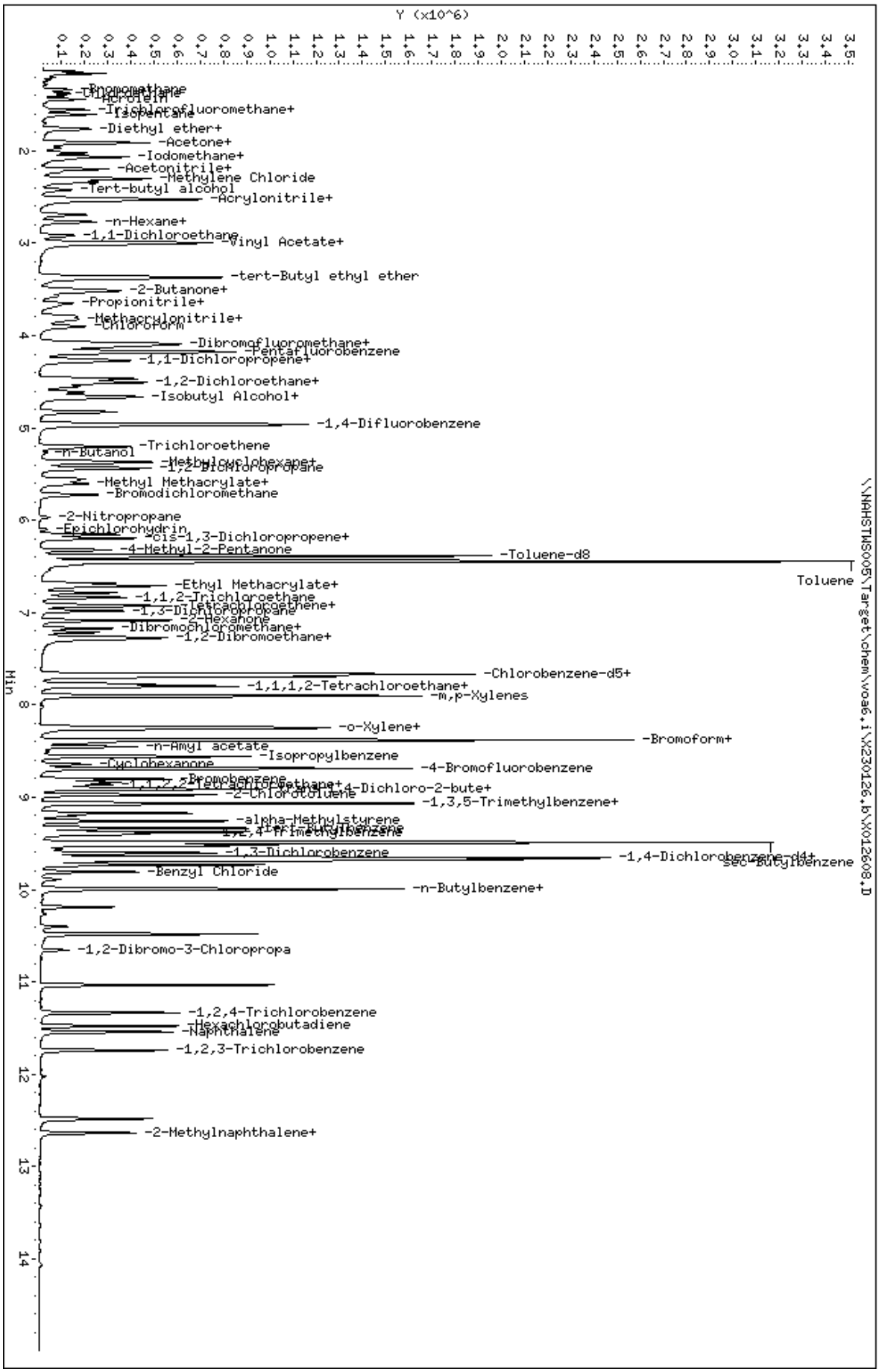
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	418340	20.7618	20.76
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	528967	25.3620	25.36
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	458466	24.5306	24.53
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	251689	19.7498	19.74
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	266660	19.1752	19.17
86	Benzyl Chloride	91	9.808	9.808	(1.279)	212327	17.8559	17.85
87	n-Butylbenzene	91	9.992	9.992	(1.034)	408249	23.6360	23.63
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	245230	18.6844	18.68
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	22929	19.2839	19.28
90	1,2,4-Trichlorobenzene	180	11.338	11.337	(1.173)	174667	21.0876	21.08
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	98327	26.9100	26.90
92	Naphthalene	128	11.540	11.540	(1.194)	420051	22.2890	22.28
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	158689	20.0039	20.00
146	Methyl acetate	43	2.228	2.224	(0.534)	50888	16.6936	16.69
138	Freon TF	101	1.910	1.910	(0.458)	95695	19.2434	19.24
141	Cyclohexane	56	4.118	4.118	(0.987)	155233	23.4206	23.42
142	Tetrahydrofuran	42	3.844	3.840	(0.921)	24895	27.3296	27.32
147	Methylcyclohexane	55	5.377	5.373	(1.084)	247170	21.5987	21.59
135	1,4-Dioxane	88	5.598	5.594	(1.341)	20231	326.698	326.69
132	n-Butanol	56	5.265	5.253	(1.261)	20514	276.190	276.18(a)
131	Methyl Acrylate	55	3.683	3.683	(0.882)	79495	17.2843	17.28
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	247170	19.7699	19.76
136	n-Hexane	57	2.768	2.768	(0.663)	115451	23.6692	23.66
139	Diethyl ether	59	1.752	1.752	(0.420)	66086	14.5996	14.59
148	Tert-butyl alcohol	59	2.420	2.423	(0.580)	155722	331.969	331.96
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	84144	343.474	343.47
156	Diisopropyl ether	45	2.993	2.997	(0.717)	295968	16.8417	16.84
160	2-Methylnaphthalene	142	12.635	12.634	(1.308)	183724	20.2347	20.23
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	442689	19.6435	19.64
167	Ethanol	45	1.696	1.696	(0.406)	15856	357.174	357.17
172	tert-Butyl formate	59	4.612	4.612	(1.105)	116710	32.4669	32.46
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	160347	400.294	400.29
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	321815	16.4799	16.47
175	tert-Butyl ethyl ether	59	3.368	3.372	(0.807)	312263	16.7222	16.72
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	116710	320.777	320.77
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	298920	337.819	337.81
180	1-Methylnaphthalene	142	12.635	12.634	(1.308)	183724		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	73901	15.8946	15.89
152	Amyl alcohol	42	6.910	6.903	(0.901)	23965	286.250	286.25
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	13569	15.4691	15.46
159	Propylene oxide	43	1.752	1.752	(0.420)	14477	33.9830	33.98
161	3-Methyl-1-butanol	55	6.910	6.903	(0.901)	29599	353.612	353.61
162	Butyl acrylate	55	8.252	8.249	(1.076)	209364	18.9309	18.93
182	Epichlorohydrin	57	6.093	6.093	(1.228)	25006	61.4787	61.47
M 94	1,2-Dichloroethylene (total)	96				217738	34.1420	34.14
M 95	Xylenes (total)	106				580479	57.8367	57.83
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	200117	19.2988	19.29
130	Ethyl Acetate	43	3.653	3.649	(0.875)	86009	16.2704	16.27
134	Cyclohexanone	55	8.642	8.642	(0.894)	61571	315.397	315.39(a)
185	Isoprene	39	1.771	1.767	(0.424)	32535	18.0276	18.02
186	Isopentane	42	1.606	1.606	(0.385)	63620		(a)
188	Isopropyl acetate	43	4.672	4.669	(0.942)	254830	17.5446	17.54

187 n-Amyl acetate	43	8.455	8.451 (1.103)	209358	21.2066	21.20
189 n-Butyl acetate	43	7.214	7.210 (0.941)	145449	19.9991	19.99

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	115451	463.660	463.66
194 Acetaldehyde	44	1.205	1.209	(0.289)	58281	128.338	128.33
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1219562	108.344	108.34
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	206403	18.0132	18.01
168 1-Propanol	59	2.997	2.997	(0.718)	35877	324.059	324.05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS23011136-04HS;HS23011136-04HS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

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Inj Date : 26-JAN-2023 10:51
InstruID : voa6.i
LabSampID : HS23011136-04MS

Chloroprene (126-99-8)

Reason Code:

BEFORE

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24935
13-Feb-2023
13:31
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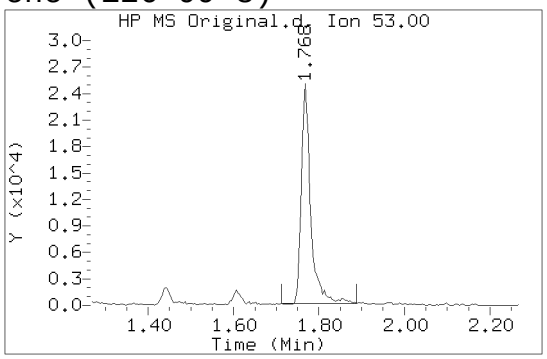

AFTER

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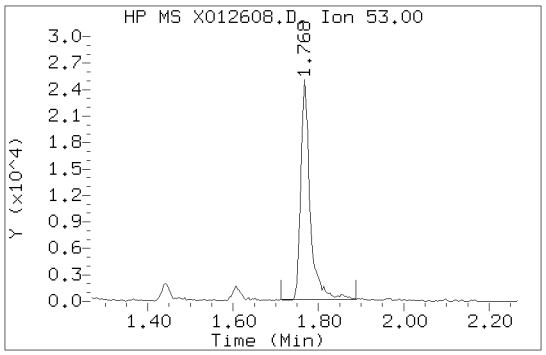

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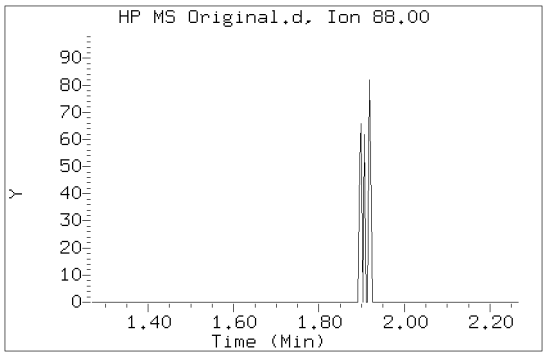

AFTER

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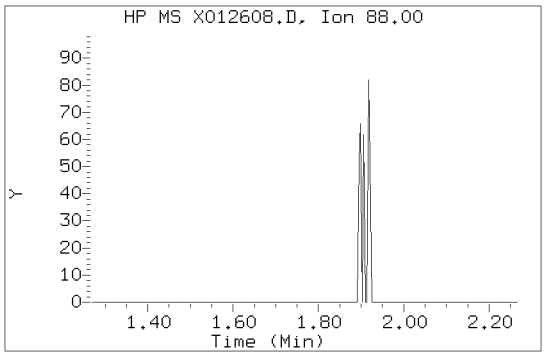

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Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012609.D
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Inj Date : 26-JAN-2023 11:12
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-04MSD;HS23011136-04MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	679614	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	57977	12.4942	12.49
3 Chloromethane	50	1.074	1.074	(0.257)	78709	14.4460	14.44
4 Propionitrile	54	3.649	3.645	(0.874)	104385	150.530	150.52(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	110653	18.6385	18.63
6 Bromomethane	94	1.336	1.336	(0.320)	58861	14.4101	14.41
7 Chloroethane	64	1.400	1.400	(0.335)	58624	14.1871	14.18
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	139516	16.7931	16.79
9 Acrolein	56	1.441	1.441	(0.345)	12934	29.8643	29.86
10 Acetone	43	1.970	1.966	(0.472)	62296	32.6450	32.64
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	81817	15.8623	15.86
12 Isobutyl Alcohol	43	4.672	4.669	(1.119)	260240	340.443	340.44(a)
13 Acetonitrile	39	2.195	2.194	(0.526)	107190	173.297	173.29(a)
14 Allyl Chloride	41	2.195	2.194	(0.526)	186184	15.8046	15.80(a)
15 Iodomethane	142	2.022	2.022	(0.485)	206115	33.4815	33.48
16 Acrylonitrile	53	2.532	2.528	(0.607)	56872	32.5099	32.50
17 Methylene Chloride	84	2.299	2.299	(0.551)	98277	13.8906	13.89
18 Methyl tert-butyl ether	73	2.532	2.528	(0.607)	264076	15.6415	15.64
19 Carbon Disulfide	76	2.063	2.063	(0.494)	463346	34.3343	34.33
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	93334	16.1682	16.16

21 Vinyl Acetate	43	2.993	2.993 (0.717)	488508	32.9615	32.96
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	158022	15.5976	15.59

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012609.D Page 2
Report Date: 13-Feb-2023 13:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	35081	15.1815	15.18(M)
24	2-Butanone	43	3.574	3.570	(0.856)	75743	39.3387	39.33
25	Methacrylonitrile	41	3.821	3.814	(0.916)	69702	14.4843	14.48(a)
26	2,2-Dichloropropane	77	3.503	3.506	(0.839)	150530	17.4995	17.49
27	cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	116113	16.5279	16.52
28	Chloroform	83	3.900	3.900	(0.934)	177935	15.6700	15.66
29	Bromochloromethane	128	3.795	3.788	(0.909)	54061	14.0546	14.05
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.981)	298983	45.8028	45.80
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	161068	17.8780	17.87
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	132722	19.5708	19.57
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	139610	17.8381	17.83
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	136828	18.8941	18.89
$ 35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	342900	49.7855	49.78
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	955229	50.0000	
37	Benzene	78	4.511	4.507	(0.909)	388846	17.0467	17.04
38	Trichloroethene	130	5.205	5.205	(1.049)	122059	18.8659	18.86
39	Bromodichloromethane	83	5.722	5.722	(1.153)	137564	16.0693	16.06
40	Methyl Methacrylate	41	5.606	5.602	(1.343)	73340	15.8266	15.82(a)
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	97148	16.0105	16.01
43	2-Nitropropane	43	5.969	5.966	(1.430)	25754	15.0065	15.00
44	Dibromomethane	93	5.550	5.549	(1.119)	65293	15.8314	15.83
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	168186	36.4677	36.46
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	164205	16.3326	16.33
* 47	Chlorobenzene-d5	117	7.668	7.667	(1.000)	862847	50.0000	
$ 48	Toluene-d8	98	6.382	6.385	(0.832)	1112015	52.1545	52.15
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	74332	16.5247	16.52(a)
50	Toluene	91	6.442	6.445	(0.840)	2063108	86.5059	86.50
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	139431	16.7114	16.71
52	2-Hexanone	43	7.083	7.083	(0.924)	296635	94.5361	94.53
53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	78755	16.4601	16.46
54	1,3-Dichloropropane	76	6.978	6.981	(0.910)	158336	16.8128	16.81
55	Dibromochloromethane	129	7.173	7.173	(0.935)	113968	16.5039	16.50
56	Tetrachloroethene	164	6.925	6.925	(0.903)	100618	20.3906	20.39
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	102376	17.1136	17.11
58	1-Chlorohexane	55	7.694	7.694	(1.551)	104038	22.5370	22.53
59	Chlorobenzene	112	7.694	7.694	(1.003)	287937	17.0214	17.02
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	106823	16.9686	16.96
61	Ethylbenzene	106	7.799	7.799	(1.017)	149766	18.7949	18.79
62	m,p-Xylenes	106	7.904	7.904	(1.031)	381698	37.1583	37.15
63	o-Xylene	106	8.241	8.237	(1.075)	180656	17.8187	17.81
64	Styrene	104	8.260	8.256	(1.077)	305939	18.0033	18.00
66	Bromoform	173	8.410	8.410	(1.097)	77175	16.1318	16.13
67	Isopropylbenzene	105	8.560	8.560	(1.116)	477833	20.6292	20.62
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	131544	17.3530	17.35
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	413910	51.9330	51.93
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	475607	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	137140	25.9139	25.91
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	33106	17.7734	17.77(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	559040	21.2204	21.22
74	Bromobenzene	156	8.803	8.803	(0.911)	137397	17.6081	17.60
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	399076	20.5060	20.50
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	338145	19.5601	19.56

77 4-Chlorotoluene	91	9.070	9.069 (0.939)	388583	19.7175	19.71
78 tert-Butylbenzene	119	9.336	9.336 (0.966)	343062	21.5350	21.53

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012609.D Page 3
Report Date: 13-Feb-2023 13:32

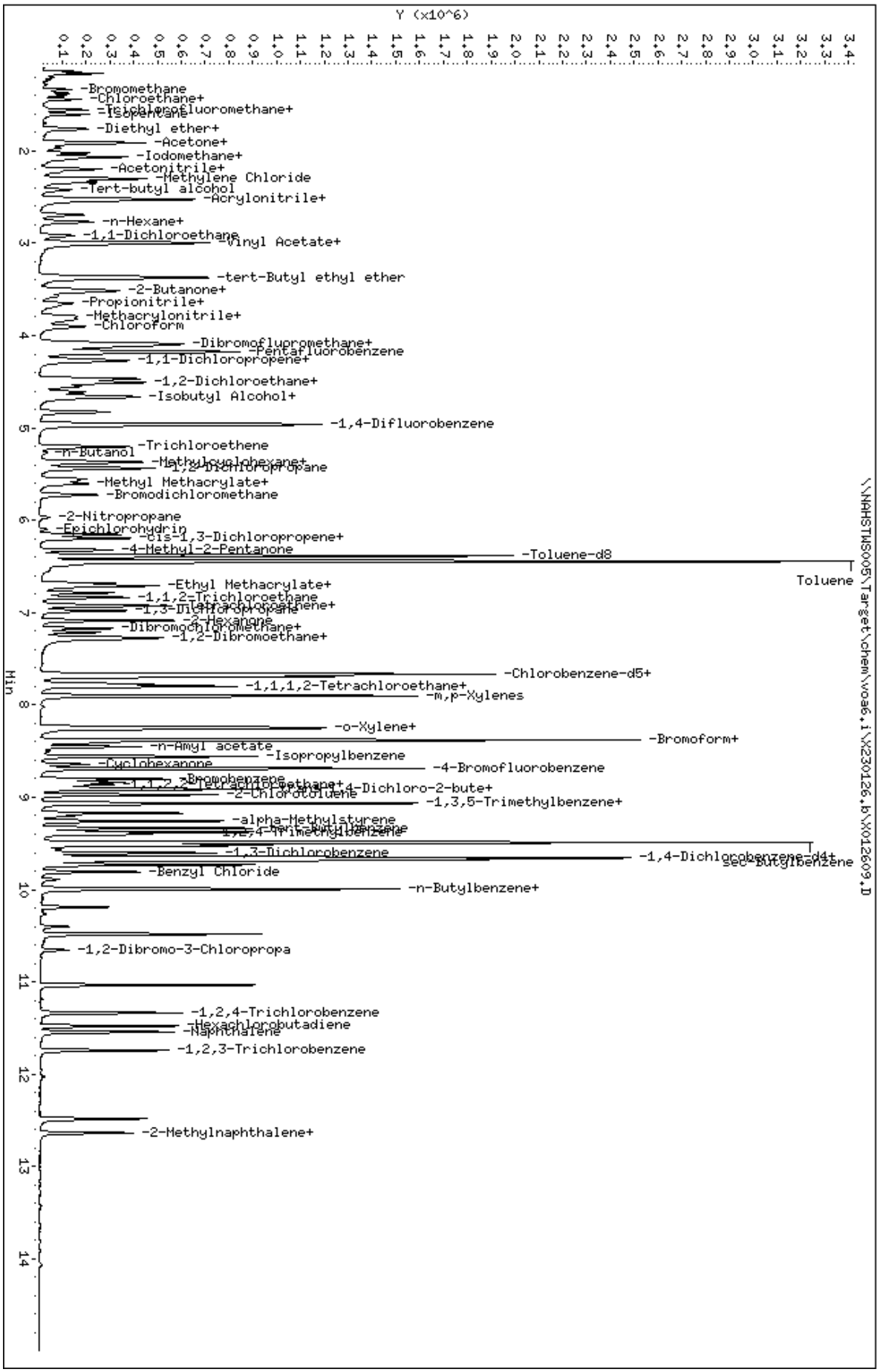
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	403055	19.6829	19.68
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	501585	23.6641	23.66
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	438126	23.0669	23.06
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	243270	18.7835	18.78
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	253512	17.9379	17.93
86	Benzyl Chloride	91	9.808	9.808	(1.279)	205777	17.1120	17.11
87	n-Butylbenzene	91	9.992	9.992	(1.034)	391881	22.4236	22.42
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	239008	17.9188	17.91
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	22222	18.3943	18.39
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	169528	20.1394	20.13
91	Hexachlorobutadiene	225	11.476	11.480	(1.188)	94277	25.3946	25.39
92	Naphthalene	128	11.544	11.540	(1.195)	401982	20.9886	20.98
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	148658	18.4394	18.43
146	Methyl acetate	43	2.228	2.224	(0.534)	48010	15.6992	15.69
138	Freon TF	101	1.910	1.910	(0.458)	88055	17.6506	17.65
141	Cyclohexane	56	4.118	4.118	(0.987)	148798	22.4343	22.43
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	24553	26.8147	26.81
147	Methylcyclohexane	55	5.377	5.373	(1.084)	222690	19.0451	19.04
135	1,4-Dioxane	88	5.598	5.594	(1.341)	19590	315.338	315.33
132	n-Butanol	56	5.265	5.253	(1.261)	20704	277.599	277.59(a)
131	Methyl Acrylate	55	3.686	3.683	(0.883)	75959	16.4628	16.46
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	222690	17.9416	17.94
136	n-Hexane	57	2.768	2.768	(0.663)	106193	21.7017	21.70
139	Diethyl ether	59	1.752	1.752	(0.420)	62186	13.6942	13.69
148	Tert-butyl alcohol	59	2.423	2.423	(0.581)	154494	328.301	328.30
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	83725	340.674	340.67
156	Diisopropyl ether	45	2.997	2.997	(0.718)	277621	15.7473	15.74
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	168207	18.2290	18.22
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	405353	17.6988	17.69
167	Ethanol	45	1.696	1.696	(0.406)	13869	310.996	310.99
172	tert-Butyl formate	59	4.612	4.612	(1.105)	117700	32.6379	32.63
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	156293	382.842	382.84
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	304658	15.5516	15.55
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.808)	293901	15.6887	15.68
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	117700	322.466	322.46
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	320239	354.204	354.20
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	168207		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	68768	14.7434	14.74
152	Amyl alcohol	42	6.907	6.903	(0.901)	23330	273.429	273.42
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	11745	13.3470	13.34
159	Propylene oxide	43	1.752	1.752	(0.420)	14361	33.6032	33.60
161	3-Methyl-1-butanol	55	6.907	6.903	(0.901)	26792	314.063	314.06
162	Butyl acrylate	55	8.252	8.249	(1.076)	197819	17.5509	17.55
182	Epichlorohydrin	57	6.101	6.093	(1.230)	23807	57.4547	57.45
M 94	1,2-Dichloroethylene (total)	96				209447	32.6961	32.69
M 95	Xylenes (total)	106				562354	54.9770	54.97
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	189127	17.9468	17.94
130	Ethyl Acetate	43	3.653	3.649	(0.875)	87673	16.5323	16.53
134	Cyclohexanone	55	8.642	8.642	(0.894)	58074	292.720	292.71(a)
185	Isoprene	39	1.767	1.767	(0.423)	28592	15.7923	15.79
186	Isopentane	42	1.606	1.606	(0.385)	53711		(a)
188	Isopropyl acetate	43	4.672	4.669	(0.942)	260240	17.5355	17.53

187 n-Amyl acetate	43	8.451	8.451 (1.102)	208200	20.6930	20.69
189 n-Butyl acetate	43	7.214	7.210 (0.941)	144436	19.4867	19.48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	106193	425.119	425.11
194 Acetaldehyde	44	1.209	1.209	(0.290)	91400	213.742	213.74
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1207217	105.232	105.23
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	193158	16.5405	16.54
168 1-Propanol	59	2.993	2.997	(0.717)	31986	287.992	287.99

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230111136-04MSD;HS230111136-04MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012609.D
Inj Date : 26-JAN-2023 11:12
InstruID : voa6.i
LabSampID : HS23011136-04MSD

Chloroprene (126-99-8)

Reason Code:

BEFORE

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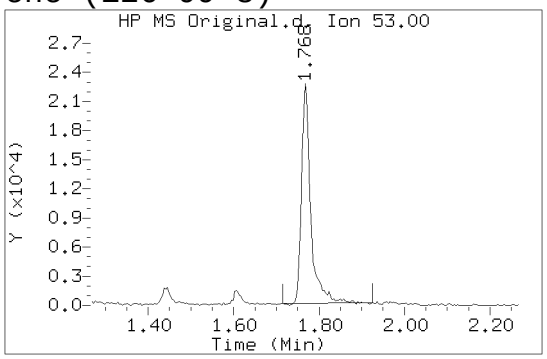
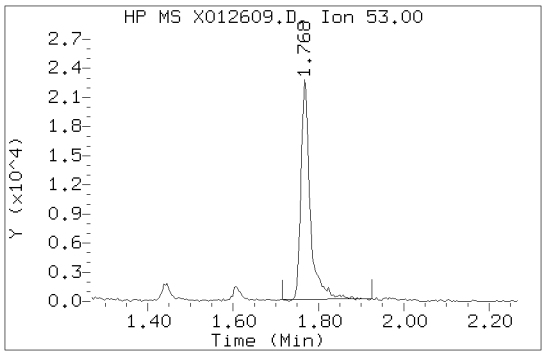
35081
HEIGHT
22637
13-Feb-2023
13:31
linh
pham



AFTER

MASS
53
AREA
35081
HEIGHT
22637
13-Feb-2023
13:31
linh
pham



BEFORE

MASS
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AREA
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HEIGHT
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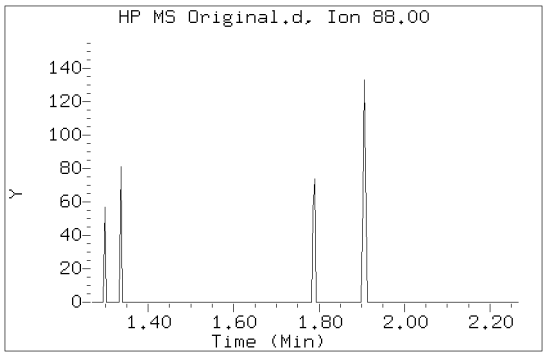
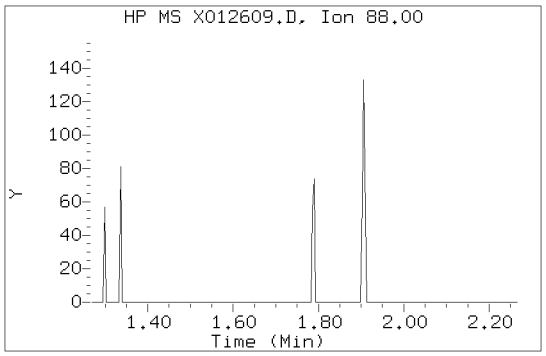
13-Feb-2023
13:31
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
13-Feb-2023
13:31
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012610.D Page 1
Report Date: 13-Feb-2023 13:32

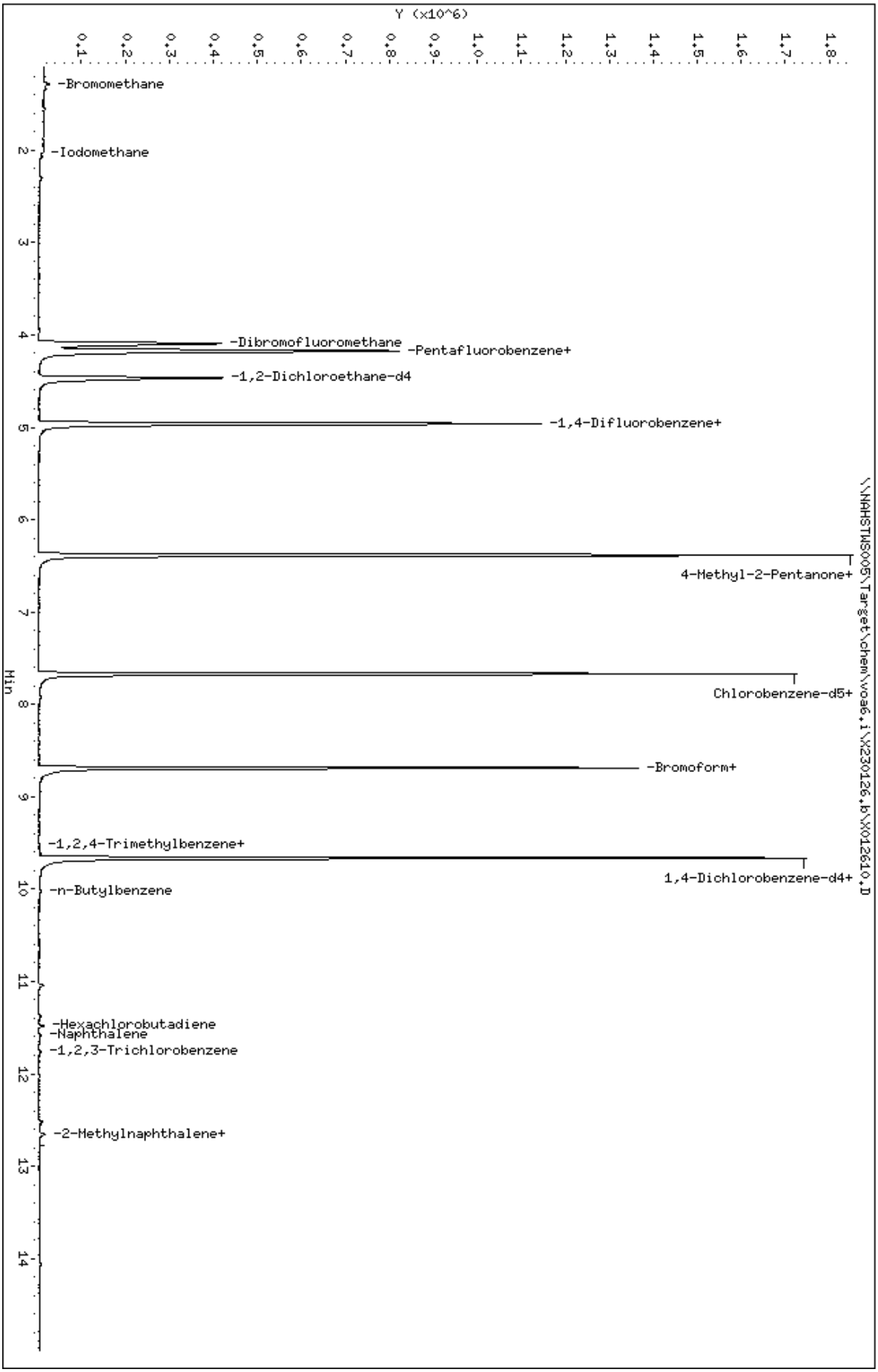
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012610.D
Lab Smp Id: HS23011136-07 Client Smp ID: HS23011136-07
Inj Date : 26-JAN-2023 11:33
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-07;HS23011136-07;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.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	4.174	4.174	(1.000)	666111	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	295489	46.1865	46.18
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	334366	49.5320	49.53
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	939656	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	833918	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1083702	52.5898	52.58
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	386308	50.1534	50.15
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	420612	50.0000	



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Date : 26-JAN-2023 11:33
Client ID: HS23011136-07
Sample Info: HS23011136-07;HS23011136-07;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012610.D
Inj Date : 26-JAN-2023 11:33
InstruID : voa6.i
LabSampID : HS23011136-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012624.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012624.D
Lab Smp Id: HS23011136-01 Client Smp ID: HS23011136-01
Inj Date : 26-JAN-2023 16:27
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-01;HS23011136-01;;;
Misc Info : V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 23
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

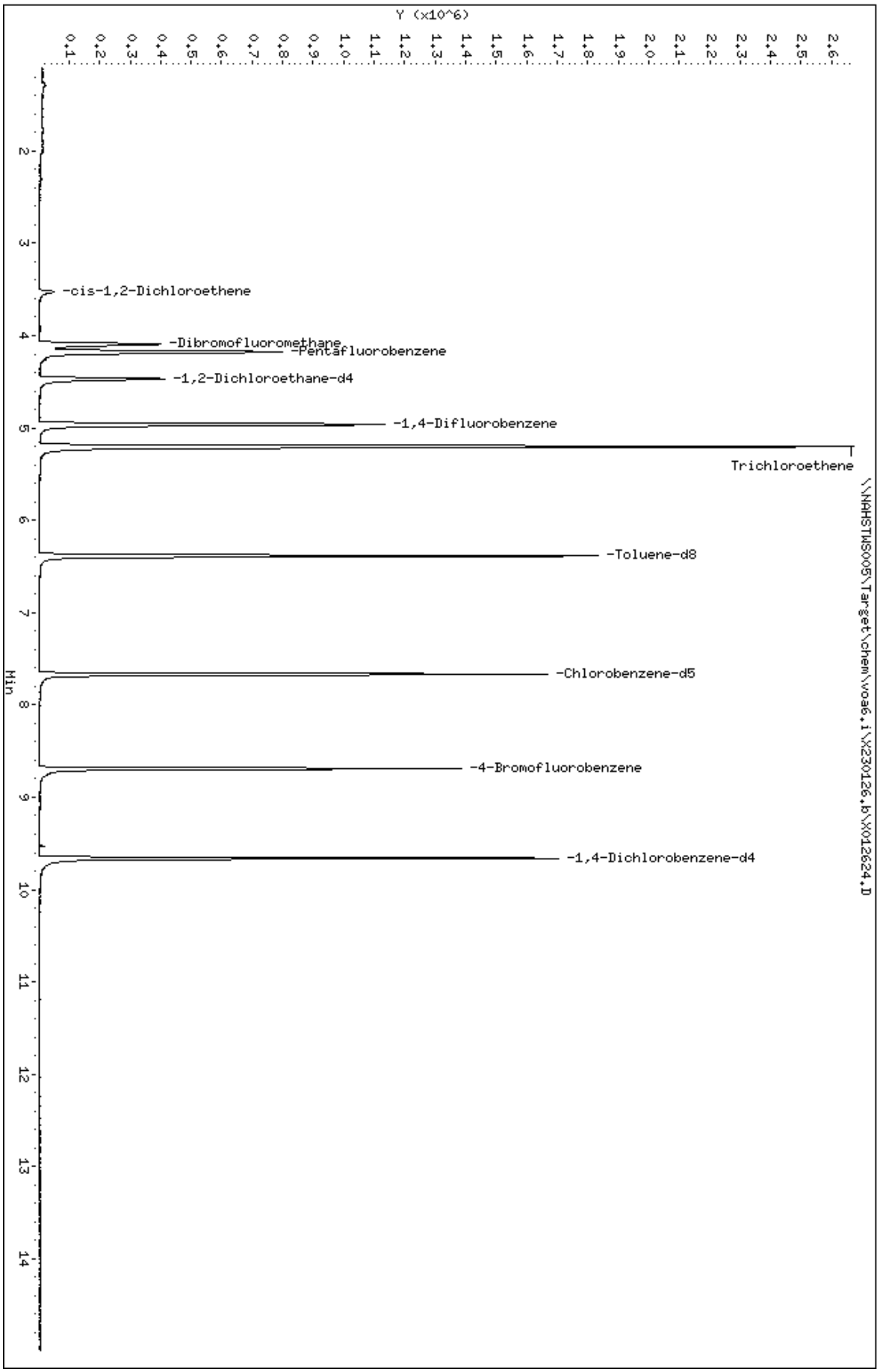
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	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	4.178	4.174	(1.000)	658273	50.0000	
	27 cis-1,2-Dichloroethene	96	3.533	3.521	(0.846)	27854	4.09336	204.66
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	289860	45.8449	45.84
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	331228	49.6507	49.65
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	921308	50.0000	
	38 Trichloroethene	130	5.201	5.205	(1.048)	872875	139.882	6994.09
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	827734	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	1068416	52.2353	52.23
$	69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	382014	49.9667	49.96
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	421331	50.0000	
M	94 1,2-Dichloroethylene (total)	96				27854	4.09336	204.66(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230126.b\X012624.D
Date : 26-JAN-2023 16:27
Client ID: HS23011136-01
Sample Info: HS23011136-01;HS23011136-01;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012624.D Page 2

Date : 26-JAN-2023 16:27

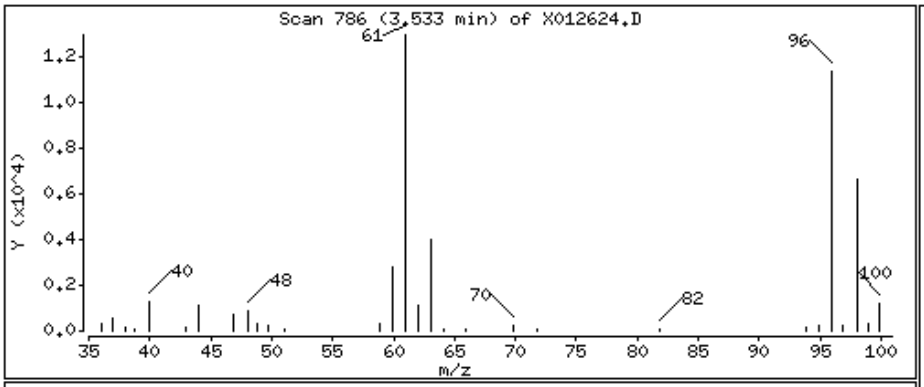
Client ID: HS23011136-01 Instrument: voa6.i

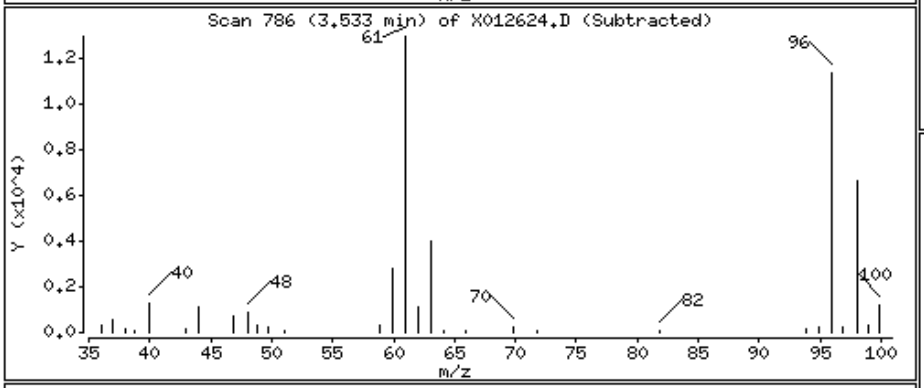
Sample Info: HS23011136-01;HS23011136-01;;;

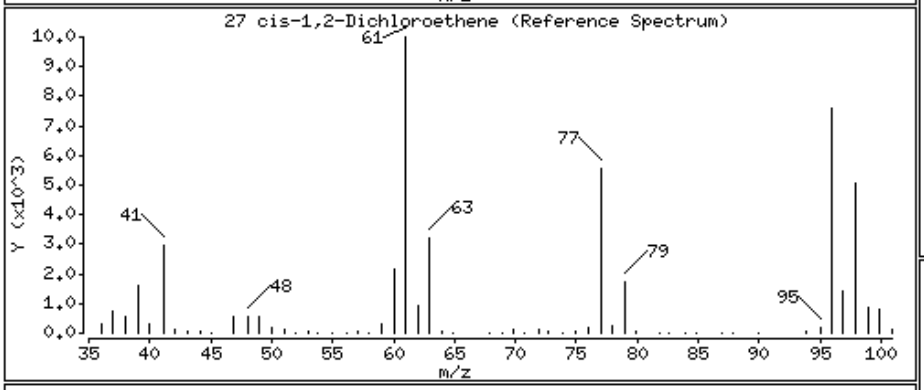
Purge Volume: 5.0 Operator: FT

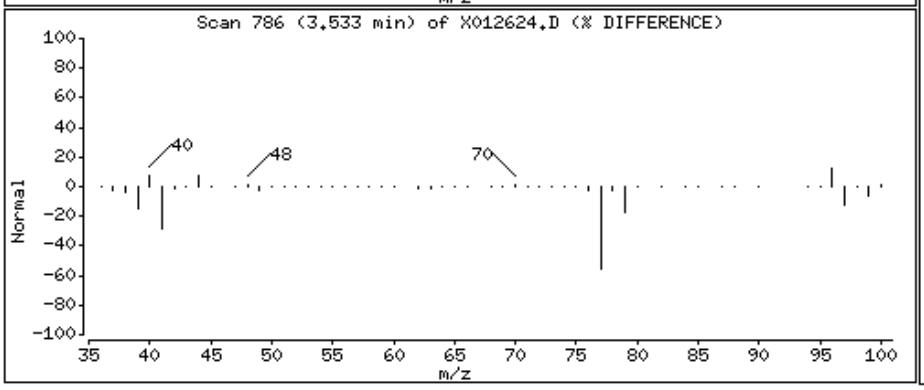
Column phase: DB624 Column diameter: 0.18

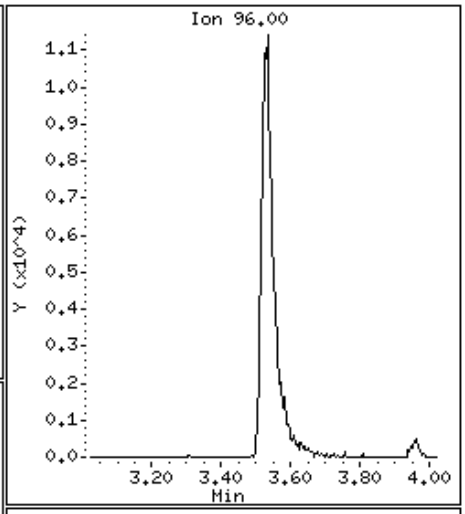
27 cis-1,2-Dichloroethene Concentration: 204.66 ug/l

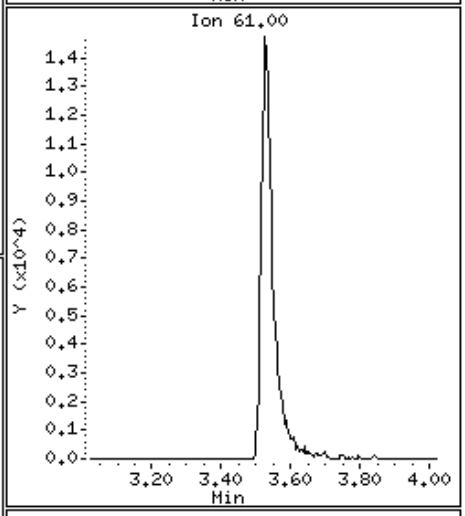


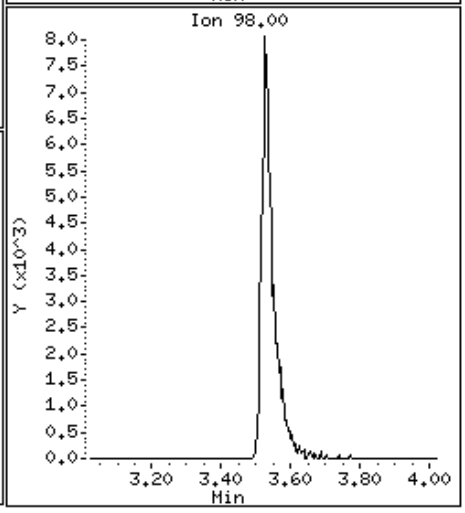












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012624.D Page 3

Date : 26-JAN-2023 16:27

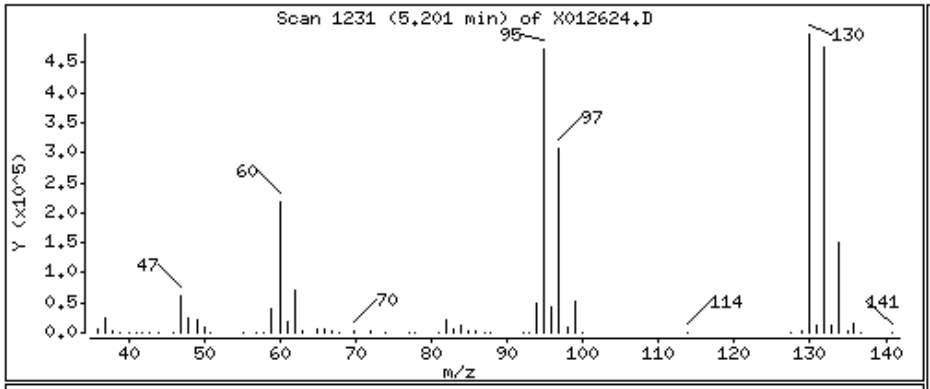
Client ID: HS23011136-01 Instrument: voa6.i

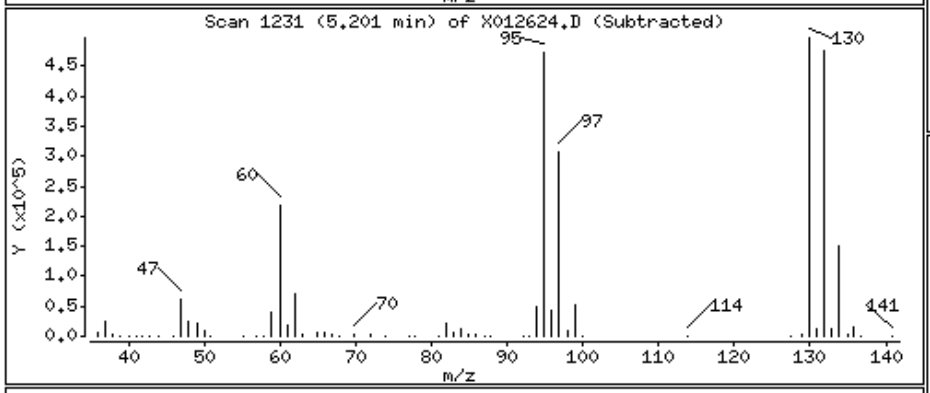
Sample Info: HS23011136-01;HS23011136-01;;;

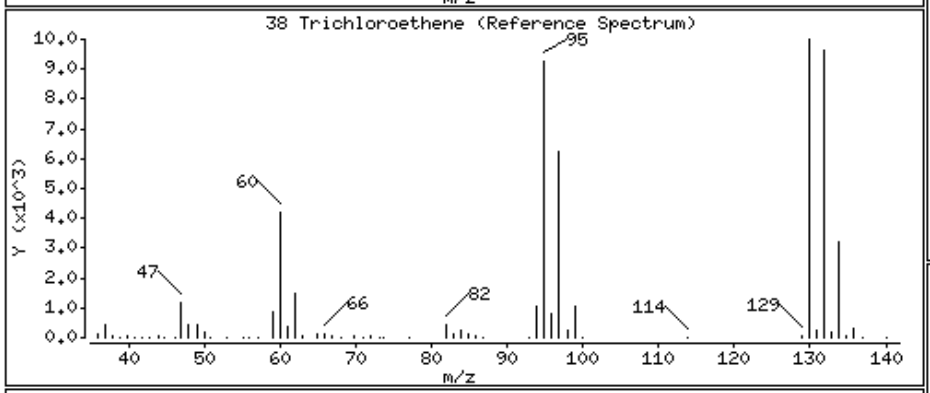
Purge Volume: 5.0 Operator: FT

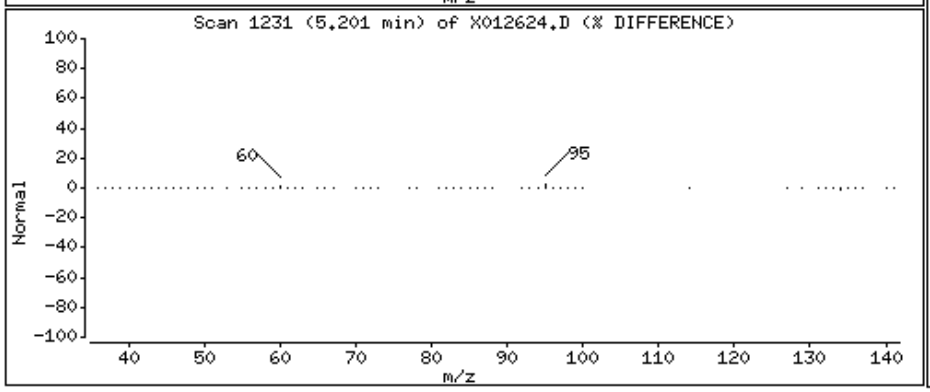
Column phase: DB624 Column diameter: 0.18

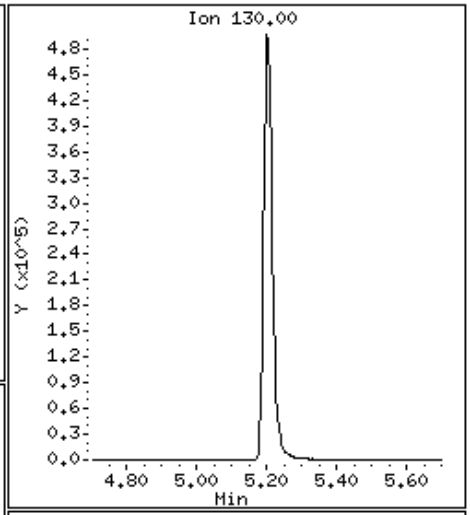
38 Trichloroethene Concentration: 6994.09 ug/l

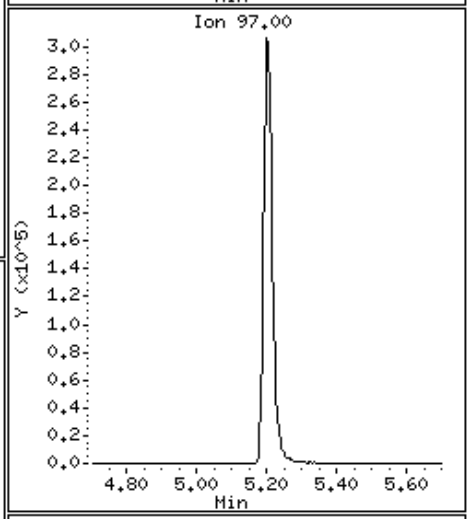


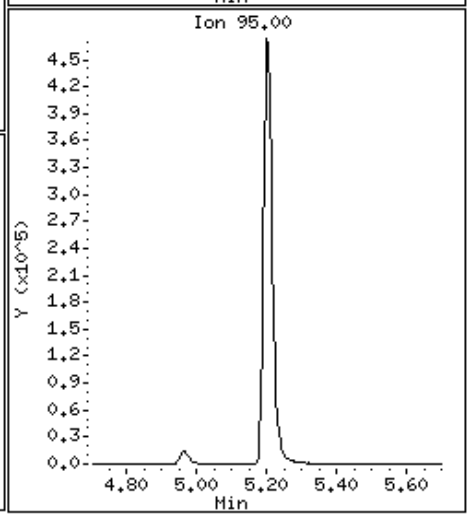












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Inj Date : 26-JAN-2023 16:27
InstruID : voa6.i
LabSampID : HS23011136-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012625.D Page 1
Report Date: 13-Feb-2023 13:32

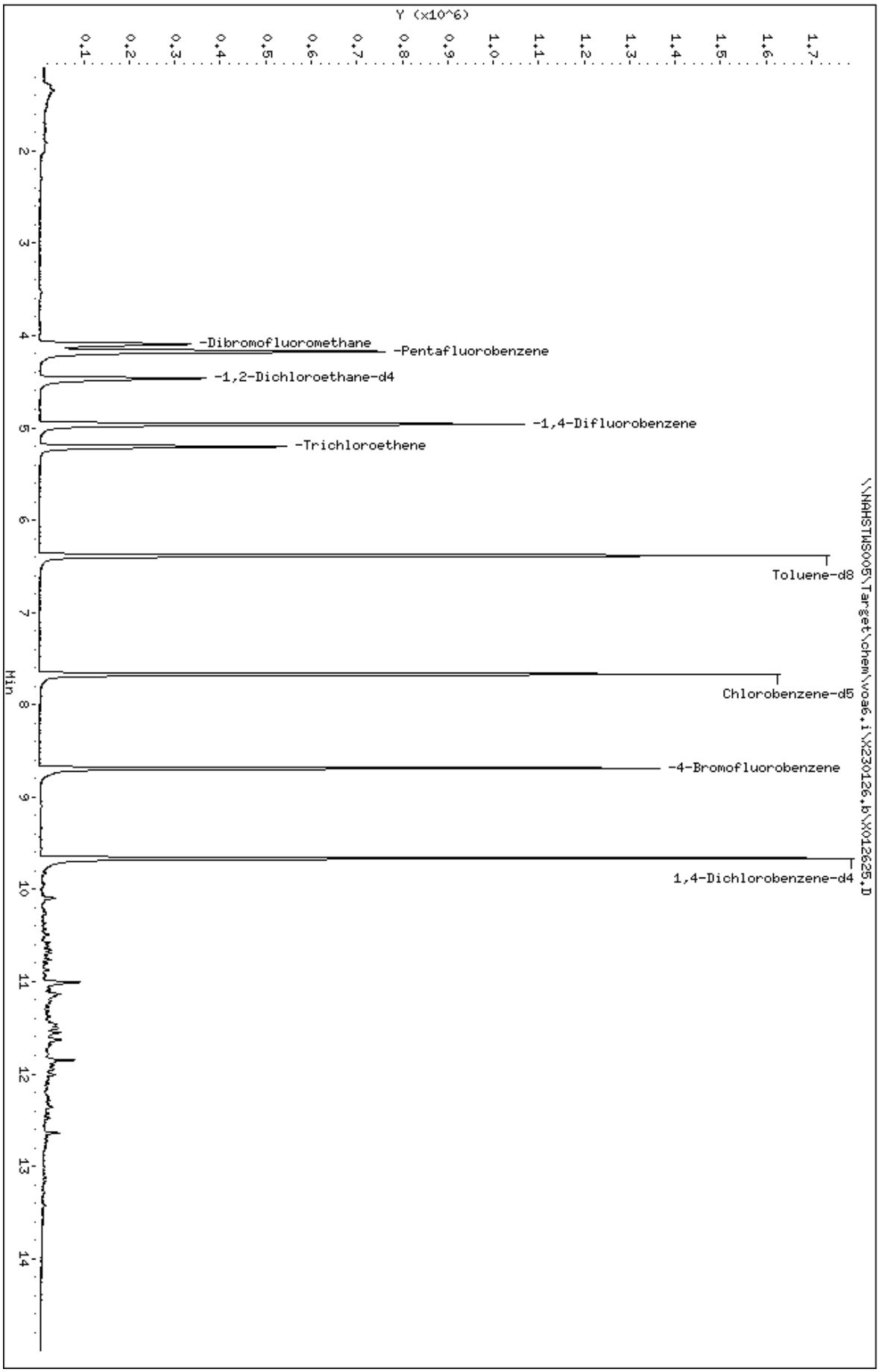
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012625.D
Lab Smp Id: HS23011136-02 Client Smp ID: HS23011136-02
Inj Date : 26-JAN-2023 16:48
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-02;HS23011136-02;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 24
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	628011	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	256648	42.5361	42.53
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	305446	48.0014	48.00
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	888394	50.0000	
38 Trichloroethene	130	5.205	5.205	(1.049)	188569	31.3386	156.69
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	809517	50.0000	
$ 48 Toluene-d8	98	6.382	6.385	(0.832)	1037340	51.8573	51.85
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	381084	50.9655	50.96
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	426466	50.0000	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Date : 26-JAN-2023 16:48
Client ID: HS23011136-02
Sample Info: HS23011136-02;HS23011136-02;;;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTMS005\Target\chem\voa6.i\X230126.b\X012625.D
Min
2
3
4
5
6
7
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9
10
11
12
13
14

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012625.D Page 2

Date : 26-JAN-2023 16:48

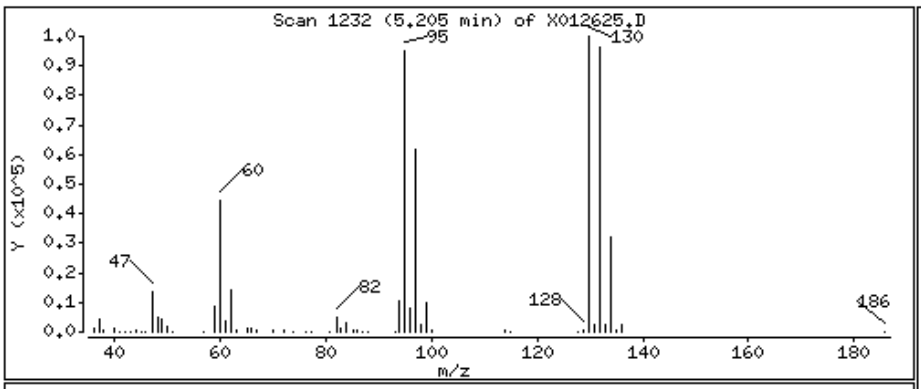
Client ID: HS23011136-02 Instrument: voa6.i

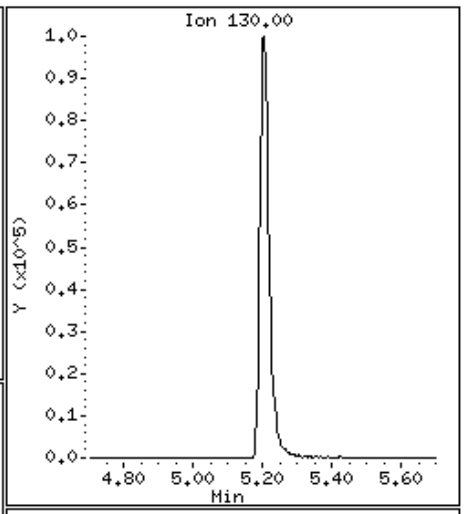
Sample Info: HS23011136-02;HS23011136-02;;;

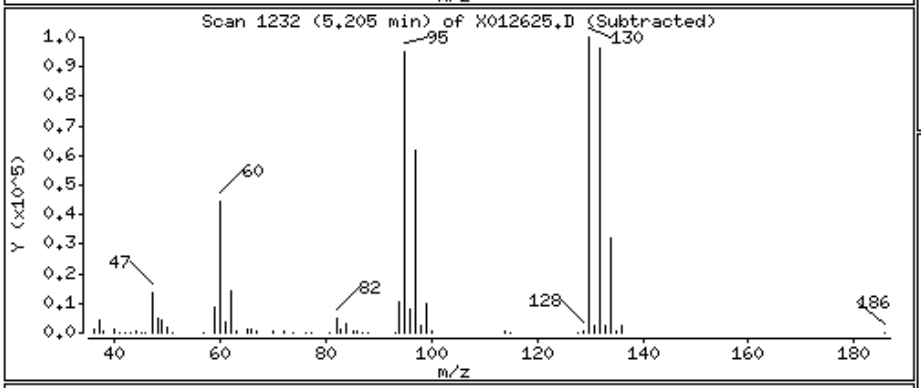
Purge Volume: 5.0 Operator: FT

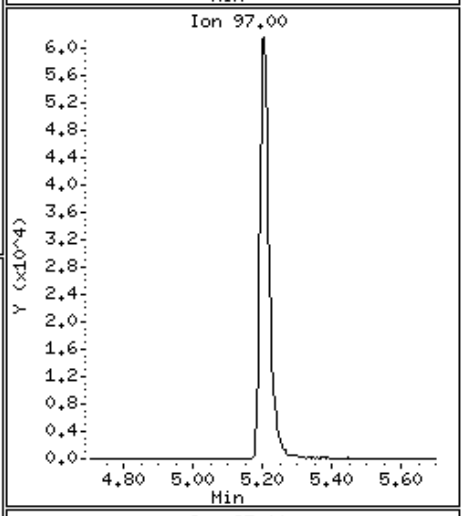
Column phase: DB624 Column diameter: 0.18

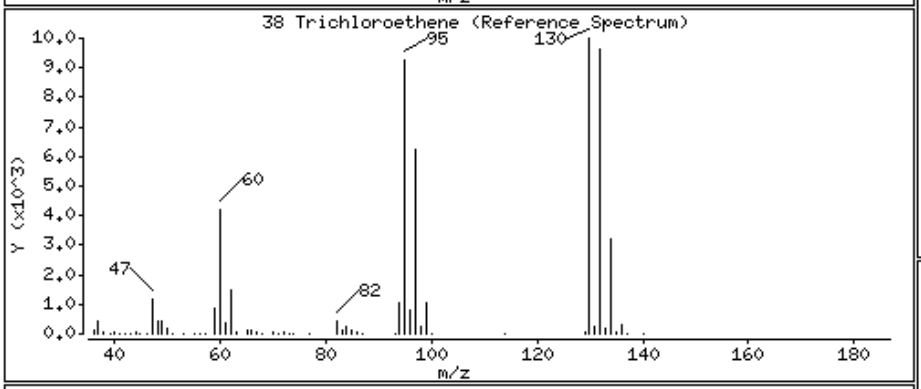
38 Trichloroethene Concentration: 156.69 ug/l

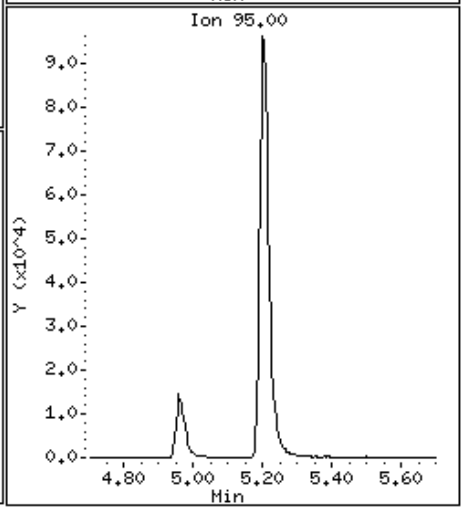


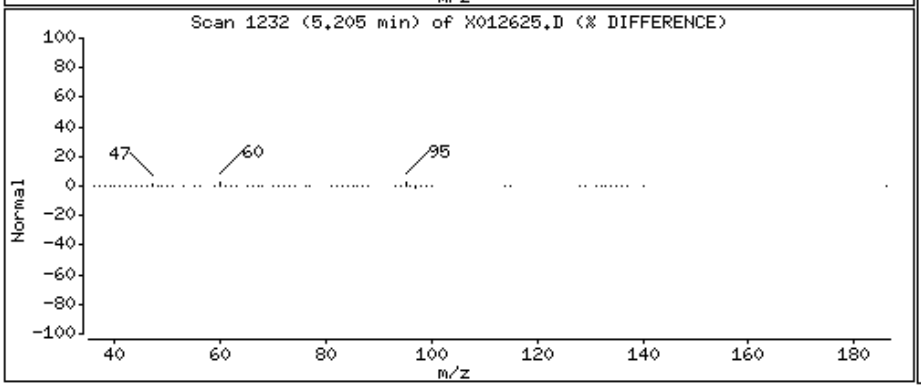












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012625.D
Inj Date : 26-JAN-2023 16:48
InstruID : voa6.i
LabSampID : HS23011136-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012626.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012626.D
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Inj Date : 26-JAN-2023 17:09
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-03;HS23011136-03;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 25
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

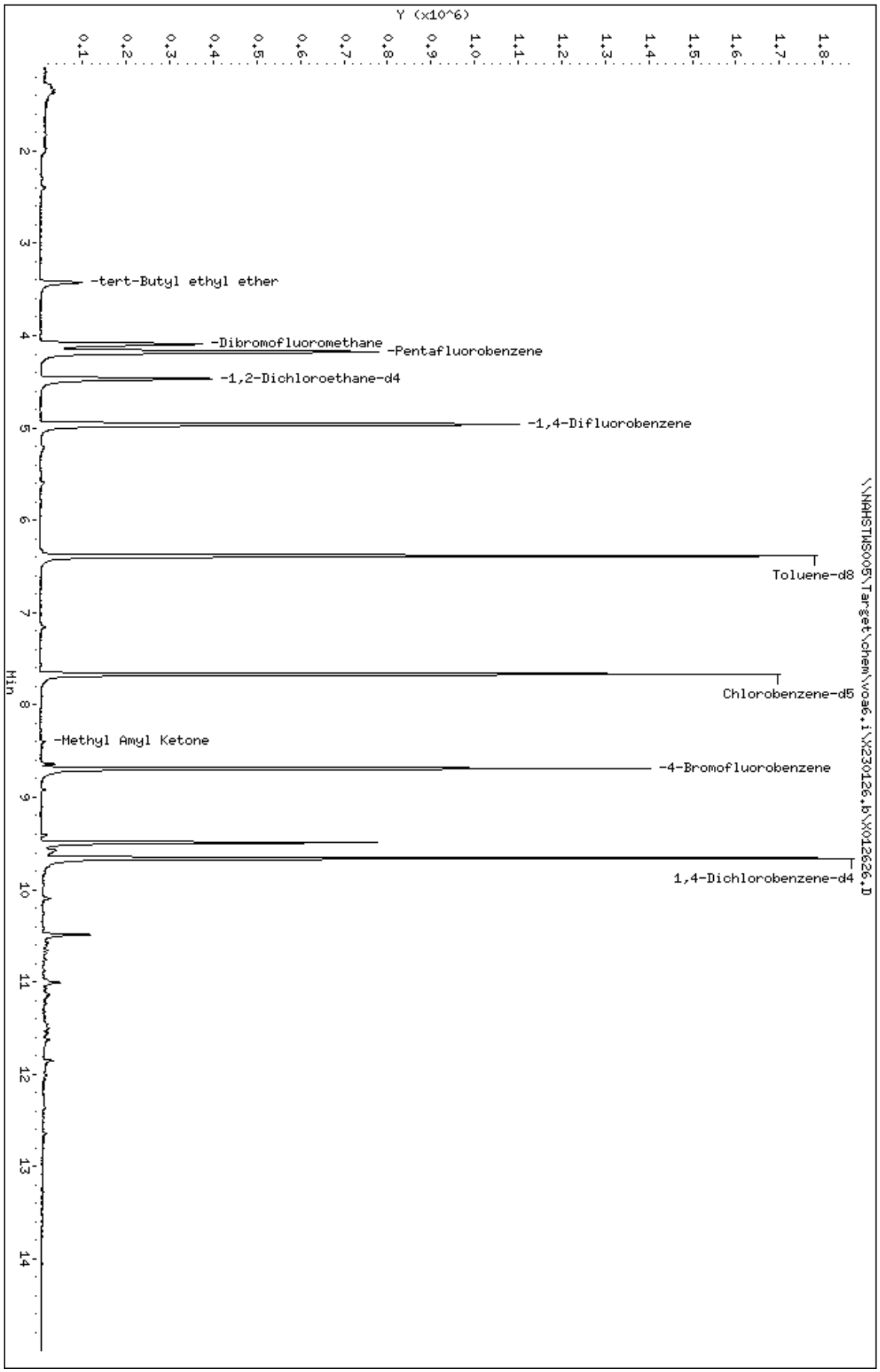
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	645017	50.0000	
5 Vinyl Chloride	62	1.137	1.141	(0.273)	2259	0.40092	2.00(a)
$ 30 Dibromofluoromethane	113	4.091	4.095	(0.980)	274531	44.3072	44.30
$ 35 1,2-Dichloroethane-d4	65	4.463	4.466	(1.069)	320549	49.0408	49.04
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	904573	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	816412	50.0000	
$ 48 Toluene-d8	98	6.382	6.385	(0.832)	1043955	51.7472	51.74
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	384821	51.0305	51.03
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	438934	50.0000	
175 tert-Butyl ethyl ether	59	3.428	3.372	(0.821)	4718	0.26536	1.32(a)
195 Methyl Amyl Ketone	43	8.399	8.380	(1.095)	7548	0.69537	3.47(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012626.D
Date : 26-JAN-2023 17:09
Client ID: HS23011136-03
Sample Info: HS23011136-03;HS23011136-03;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012626.D

Date : 26-JAN-2023 17:09

Client ID: HS23011136-03

Instrument: voa6.i

Sample Info: HS23011136-03;HS23011136-03;;;

Purge Volume: 5.0

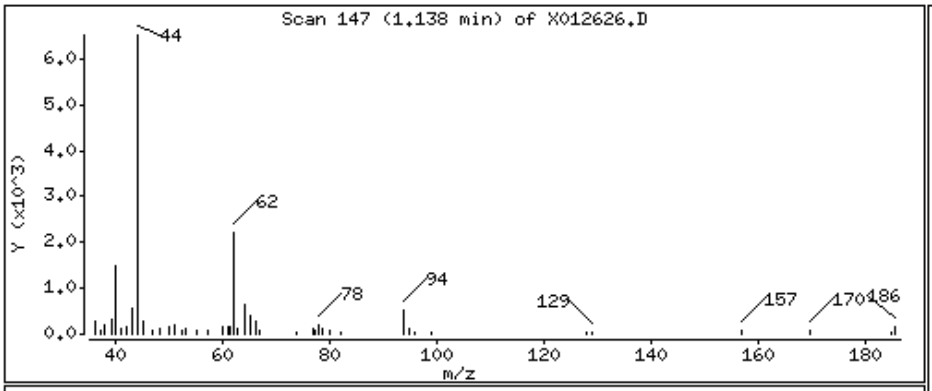
Operator: FT

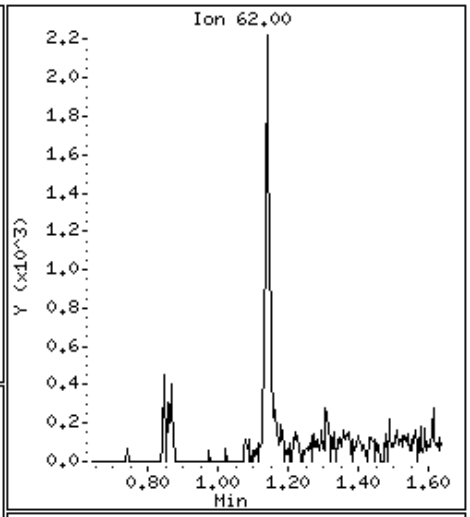
Column phase: DB624

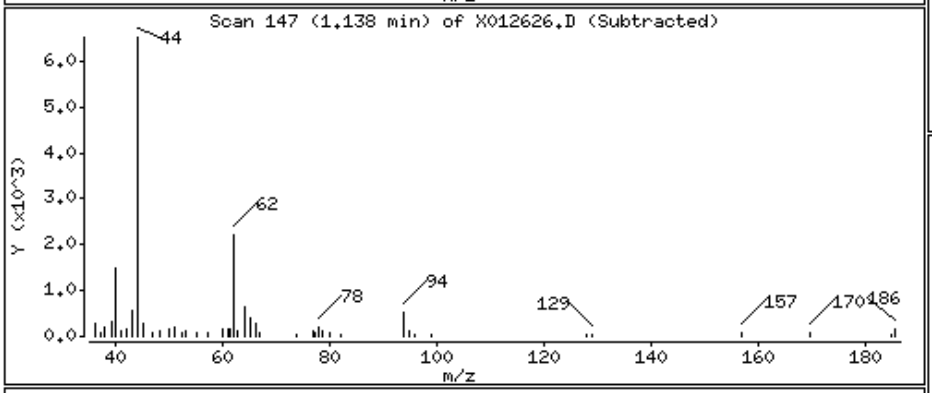
Column diameter: 0.18

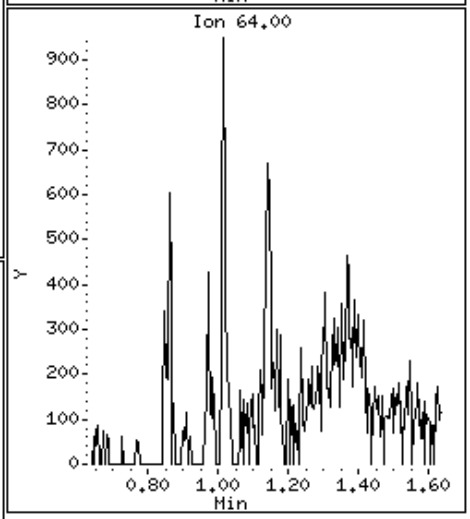
5 Vinyl Chloride

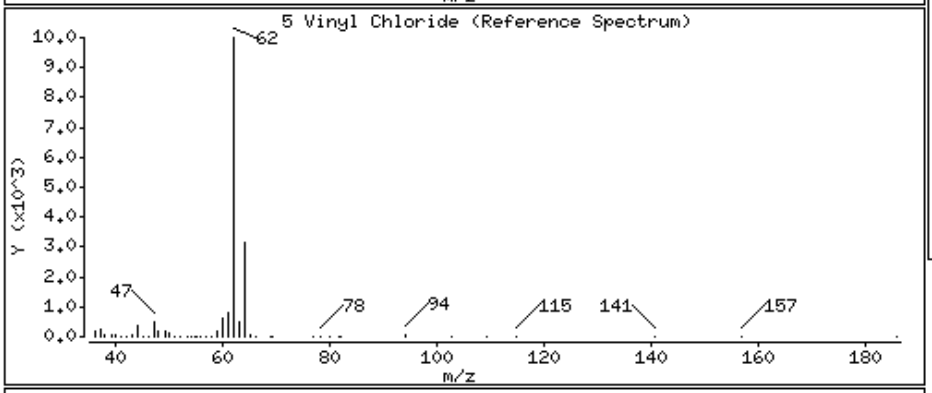
Concentration: 2.00 ug/l

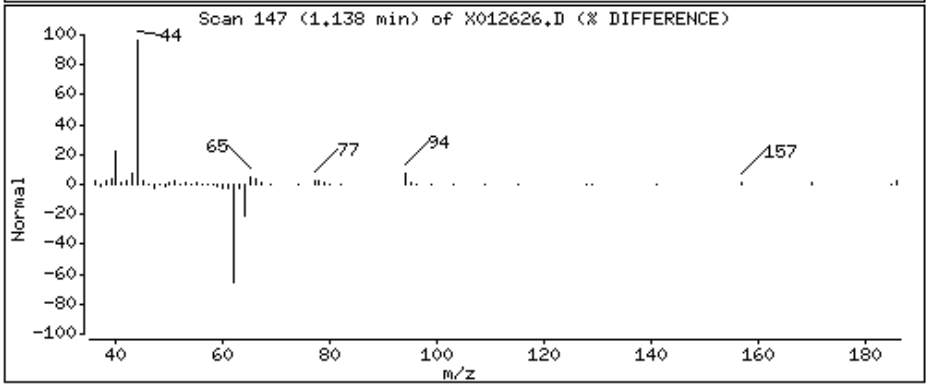












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012626.D Page 3

Date : 26-JAN-2023 17:09

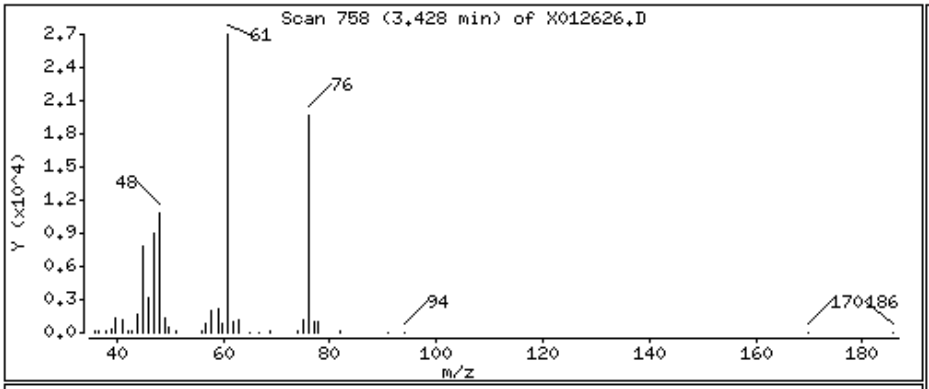
Client ID: HS23011136-03 Instrument: voa6.i

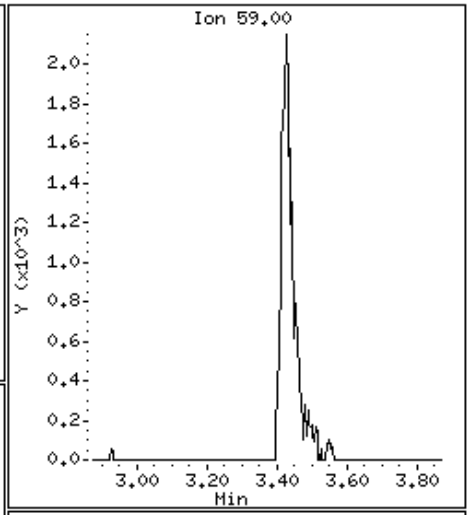
Sample Info: HS23011136-03;HS23011136-03;;;

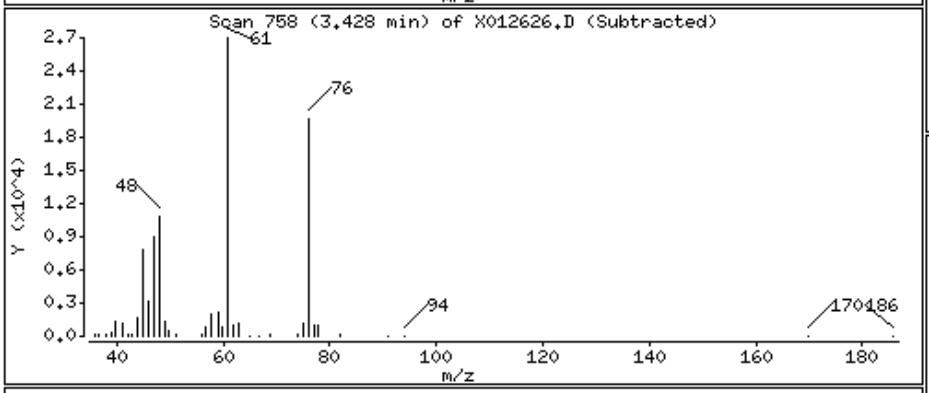
Purge Volume: 5.0 Operator: FT

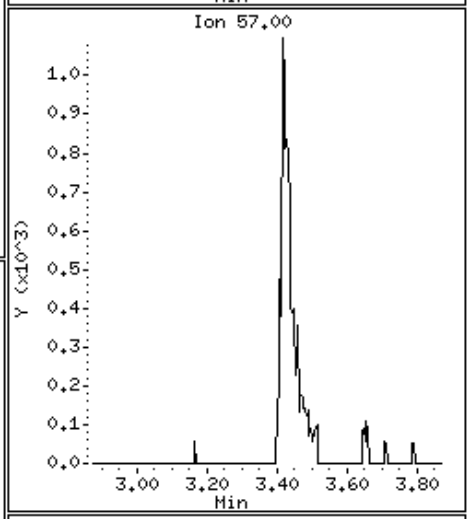
Column phase: DB624 Column diameter: 0.18

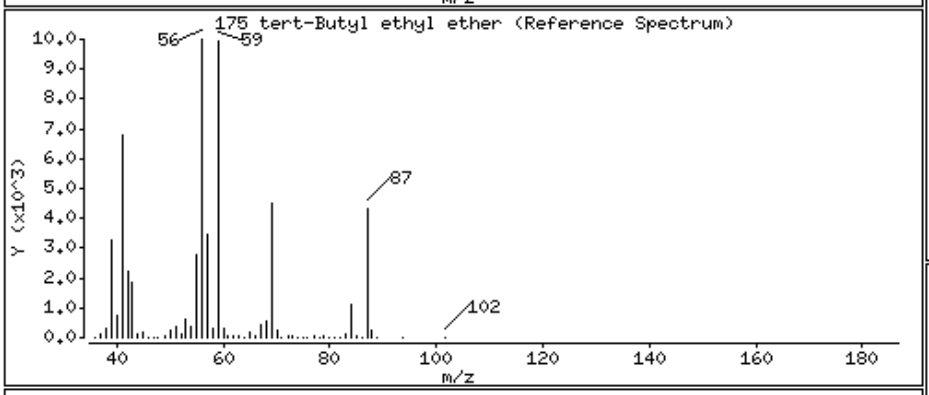
175 tert-Butyl ethyl ether Concentration: 1.32 ug/l

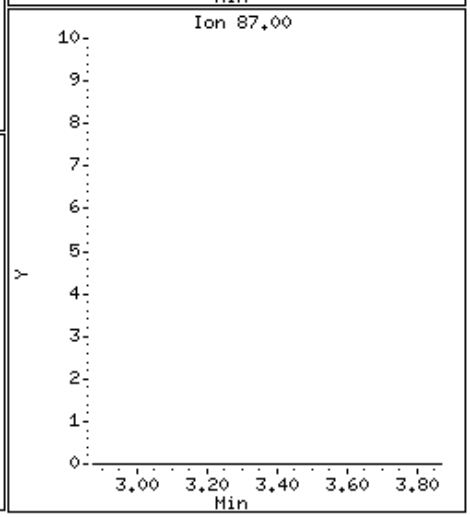


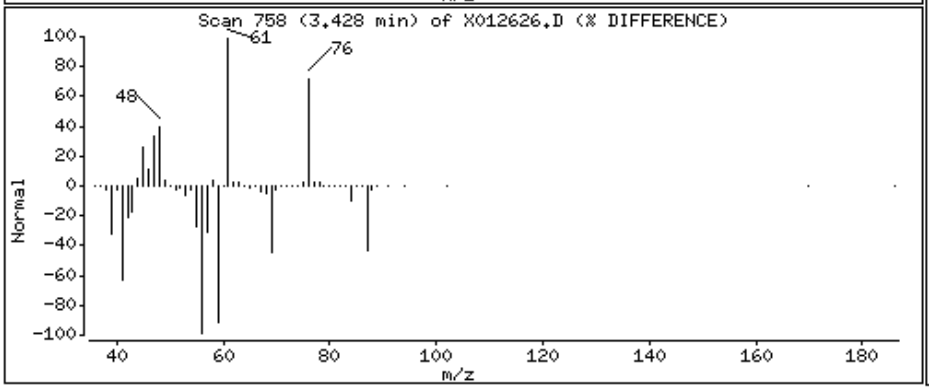












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012626.D Page 4

Date : 26-JAN-2023 17:09

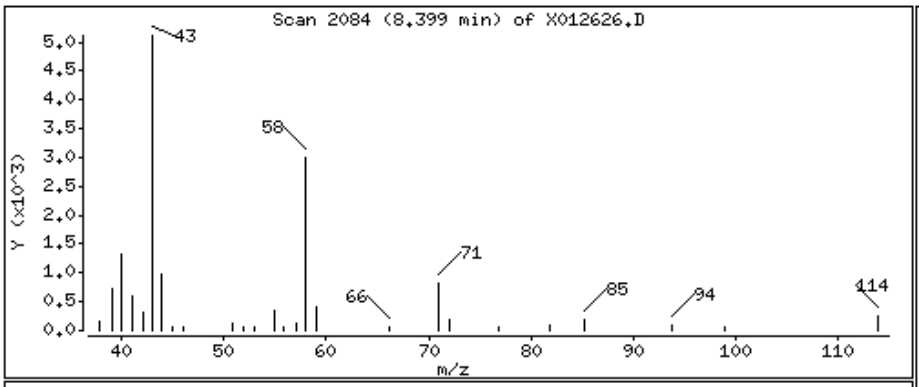
Client ID: HS23011136-03 Instrument: voa6.i

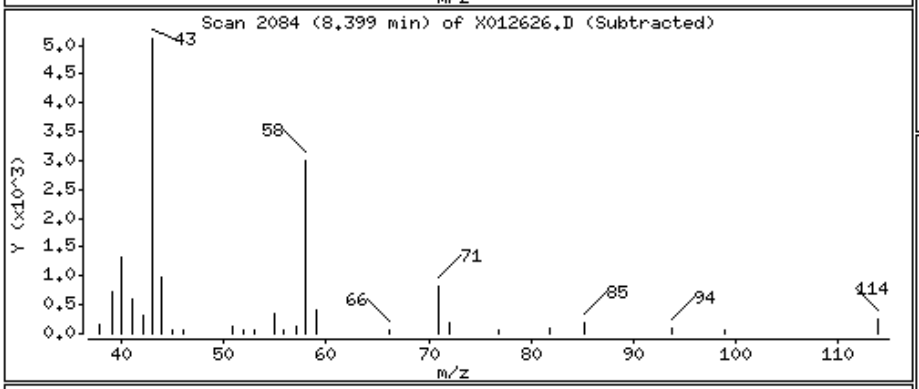
Sample Info: HS23011136-03;HS23011136-03;;;

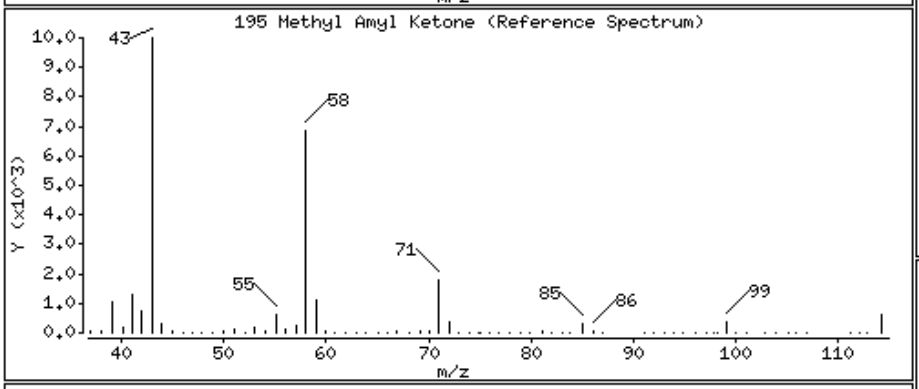
Purge Volume: 5.0 Operator: FT

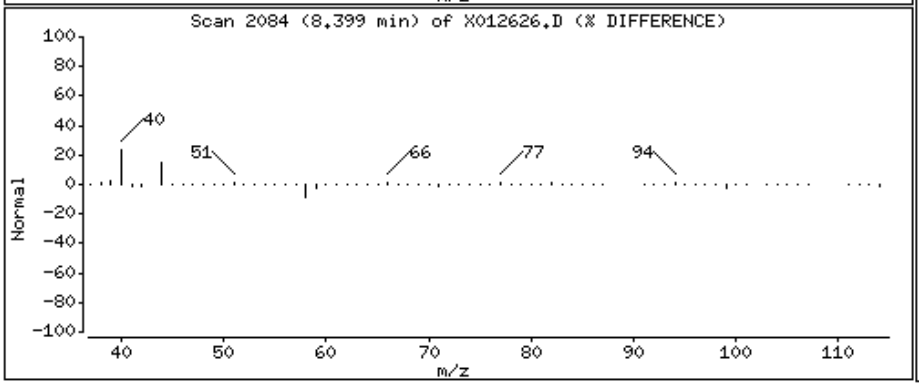
Column phase: DB624 Column diameter: 0.18

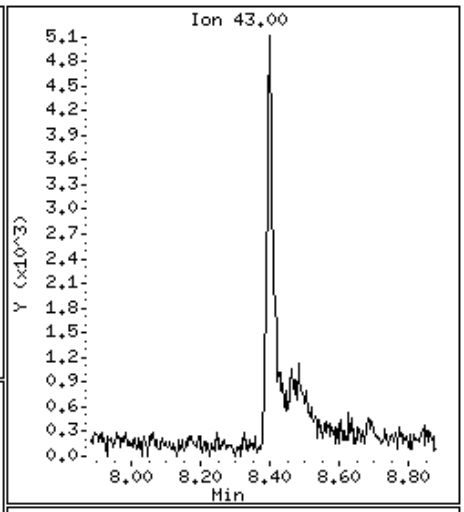
195 Methyl Amyl Ketone Concentration: 3.47 ug/l

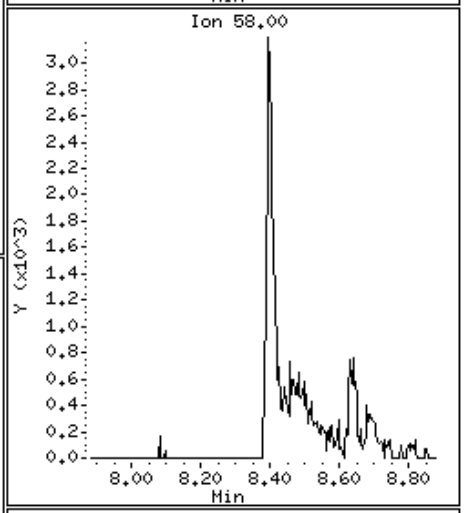


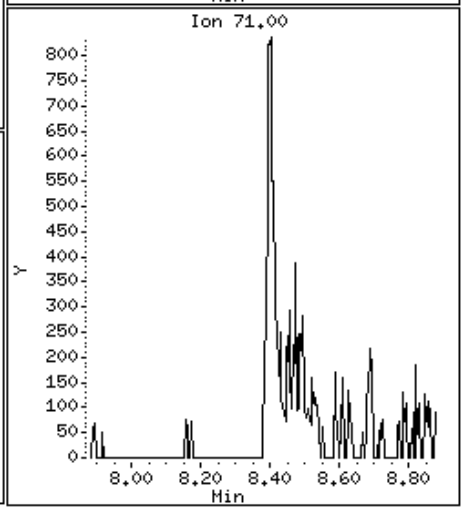












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Inj Date : 26-JAN-2023 17:09
InstruID : voa6.i
LabSampID : HS23011136-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D
Lab Smp Id: HS23011136-05 Client Smp ID: HS23011136-05
Inj Date : 26-JAN-2023 17:31
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-05;HS23011136-05;;;
Misc Info : V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 26
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

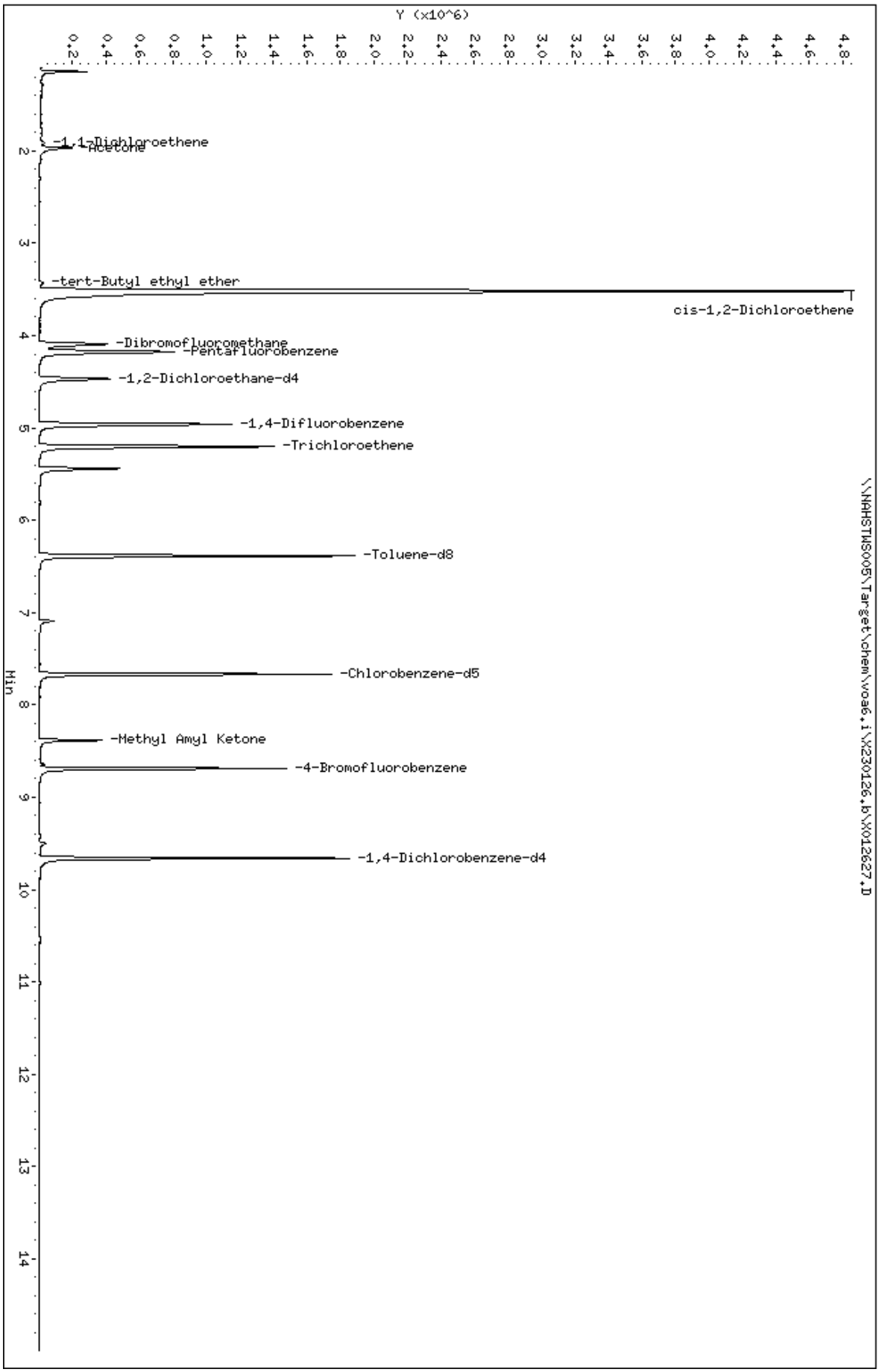
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	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	4.174	4.174	(1.000)	664241	50.0000	
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	186045	32.0628	1603.14
	10 Acetone	43	1.966	1.966	(0.471)	205794	110.420	5520.99
	11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	4832	0.95848	47.92
	27 cis-1,2-Dichloroethene	96	3.518	3.521	(0.843)	2624546	382.232	19111.59(A)
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	292264	45.8097	45.80
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	340098	50.5175	50.51
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	936254	50.0000	
	38 Trichloroethene	130	5.201	5.205	(1.048)	462488	72.9325	3646.62
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	843424	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1086768	52.1442	52.14
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	396071	50.8405	50.84
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	449265	50.0000	
	175 tert-Butyl ethyl ether	59	3.428	3.372	(0.821)	1410	0.07701	3.85(a)
M	94 1,2-Dichloroethylene (total)	96				2624546	382.232	19111.59
	195 Methyl Amyl Ketone	43	8.384	8.380	(1.093)	217556	19.4008	970.04

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 : 26-JAN-2023 17:31
Client ID: HS23011136-05
Sample Info: HS23011136-05;HS23011136-05;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D

Date : 26-JAN-2023 17:31

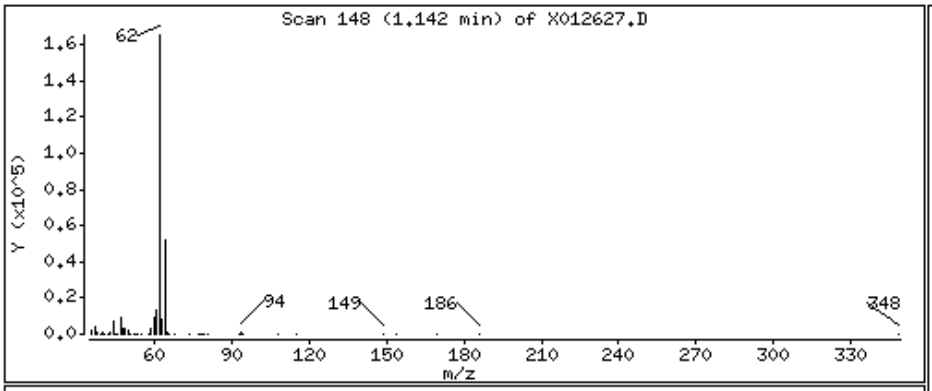
Client ID: HS23011136-05 Instrument: voa6.i

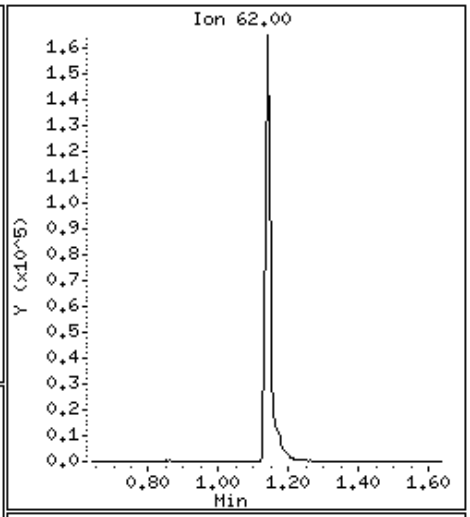
Sample Info: HS23011136-05;HS23011136-05;;;

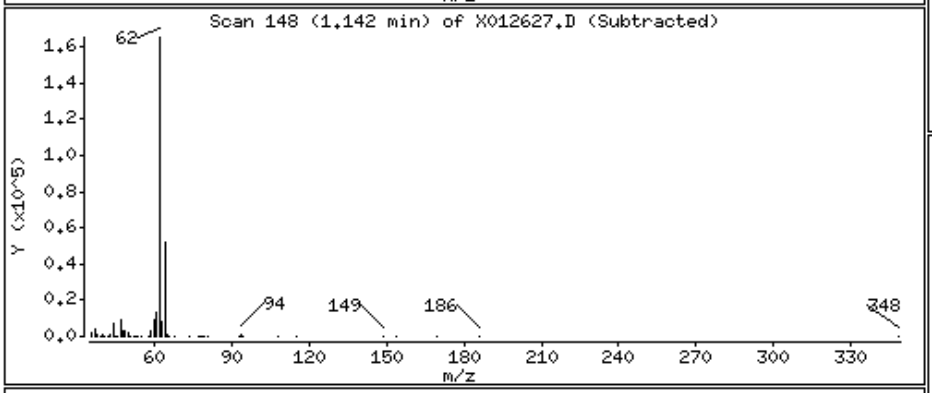
Purge Volume: 5.0 Operator: FT

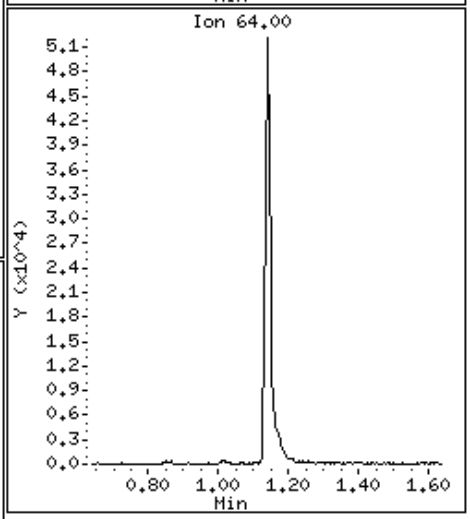
Column phase: DB624 Column diameter: 0.18

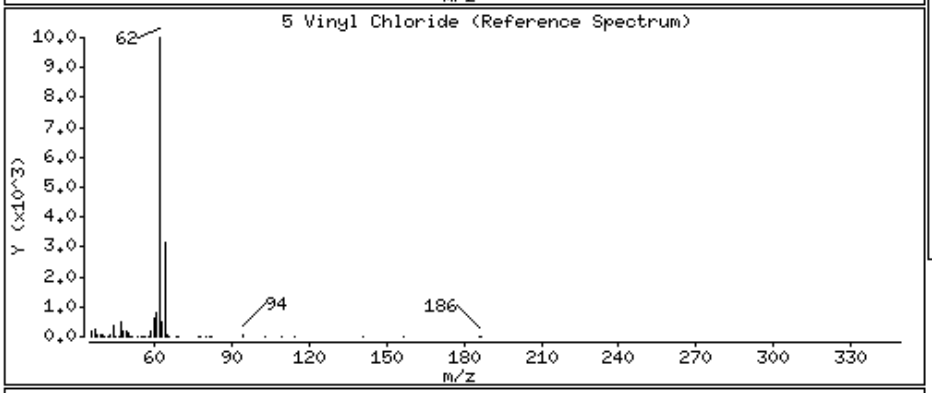
5 Vinyl Chloride Concentration: 1603.14 ug/l

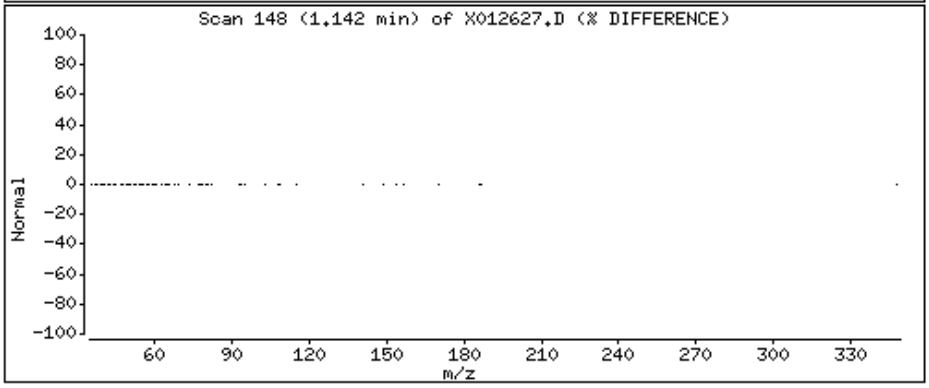












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D

Date : 26-JAN-2023 17:31

Client ID: HS23011136-05

Instrument: voa6.i

Sample Info: HS23011136-05;HS23011136-05;;;

Purge Volume: 5.0

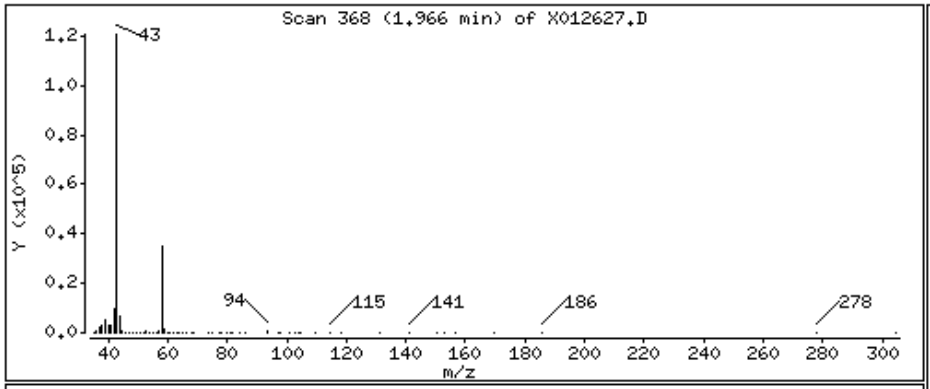
Operator: FT

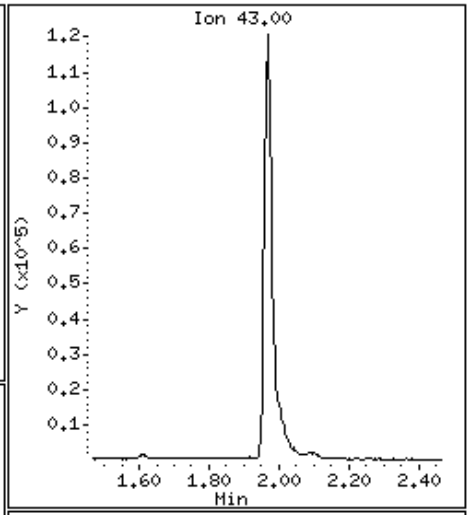
Column phase: DB624

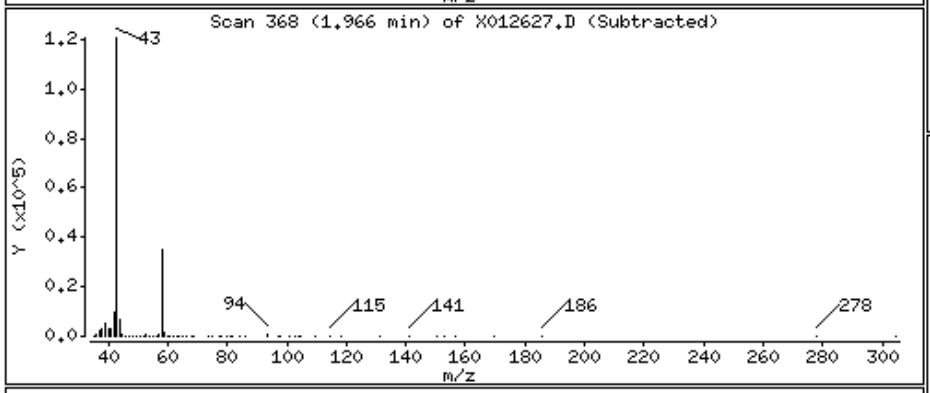
Column diameter: 0.18

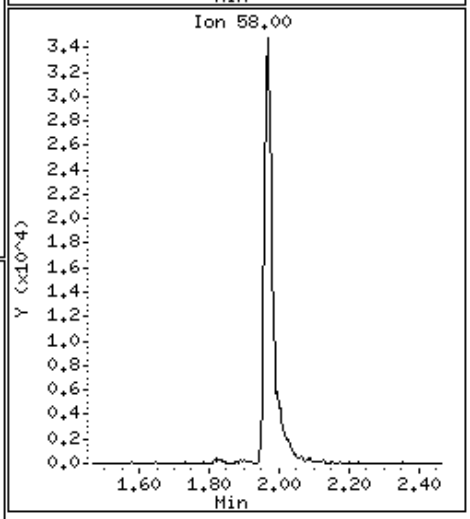
10 Acetone

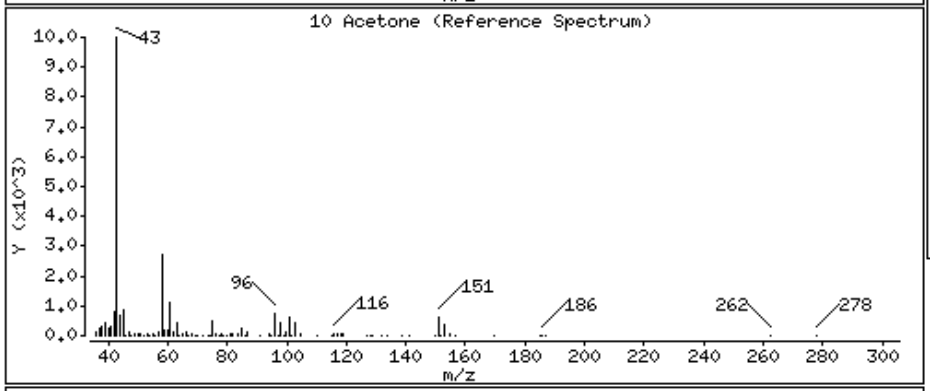
Concentration: 5520.99 ug/l

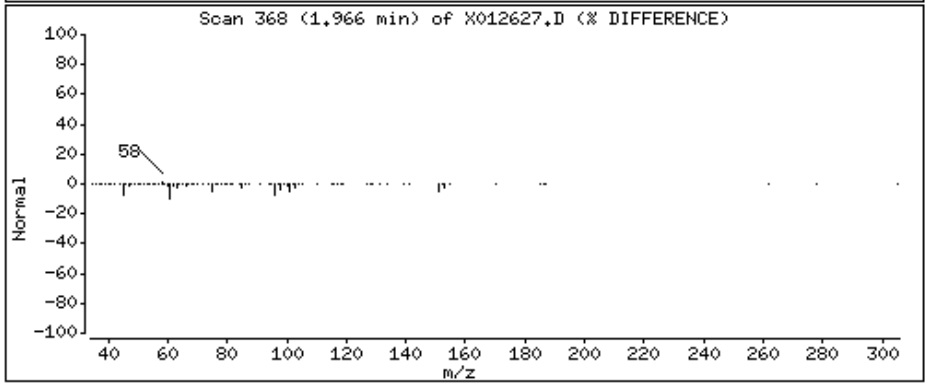












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D Page 4

Date : 26-JAN-2023 17:31

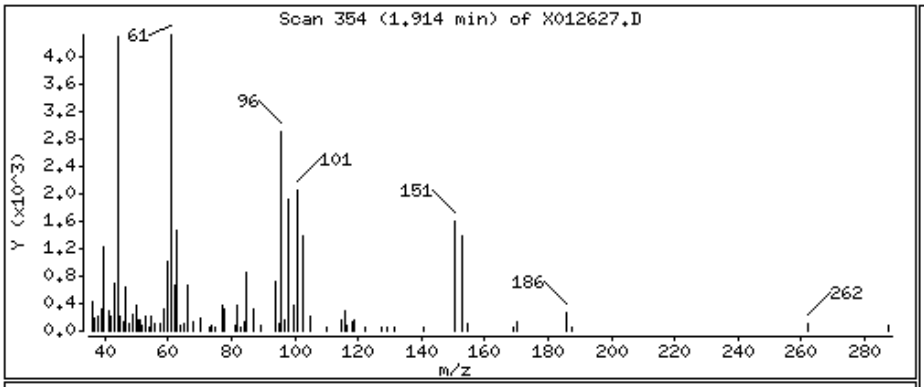
Client ID: HS23011136-05 Instrument: voa6.i

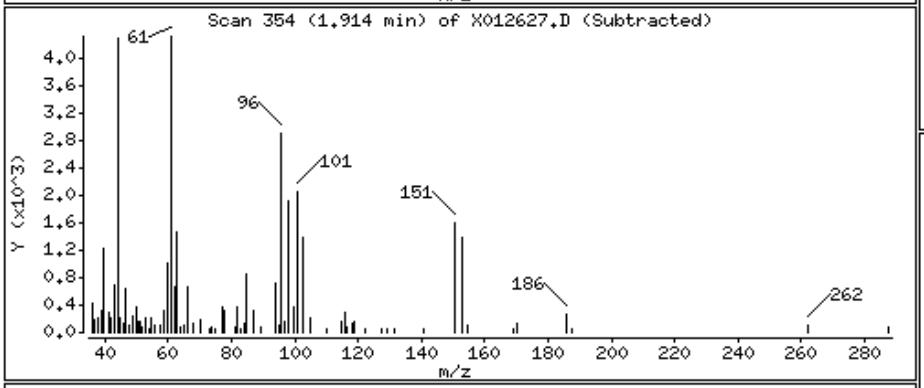
Sample Info: HS23011136-05;HS23011136-05;;;

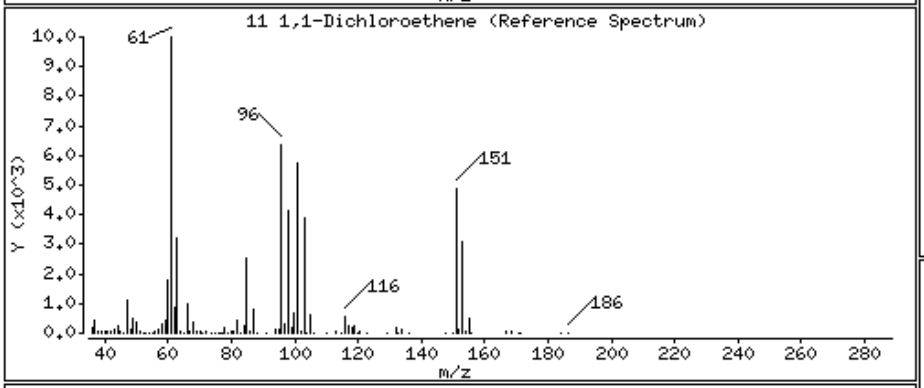
Purge Volume: 5.0 Operator: FT

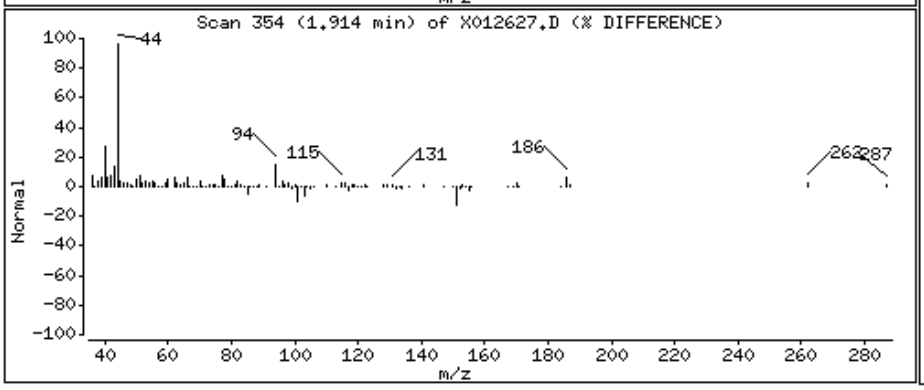
Column phase: DB624 Column diameter: 0.18

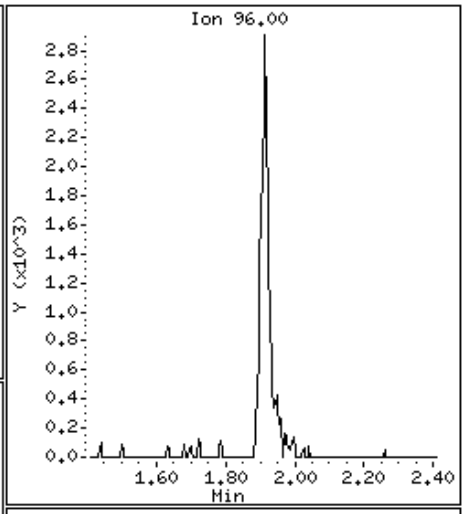
11 1,1-Dichloroethene Concentration: 47.92 ug/l

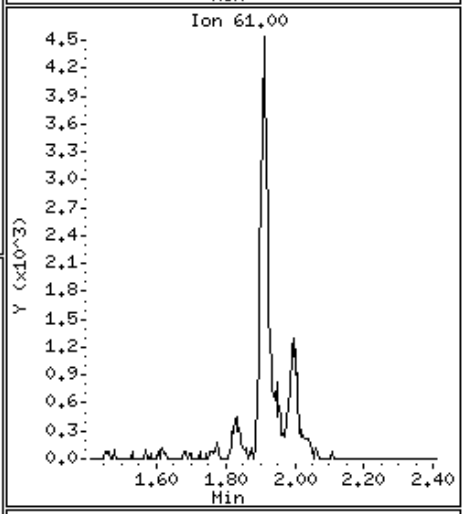


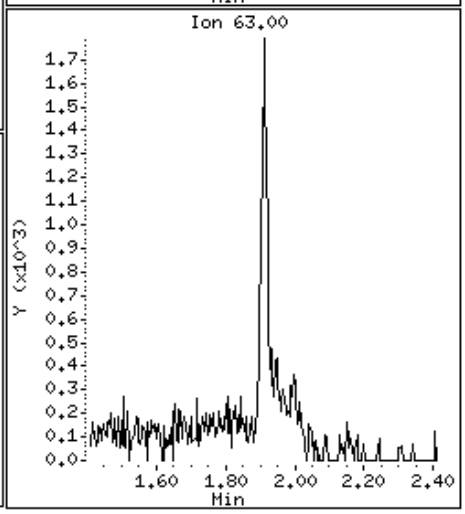












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D Page 5

Date : 26-JAN-2023 17:31

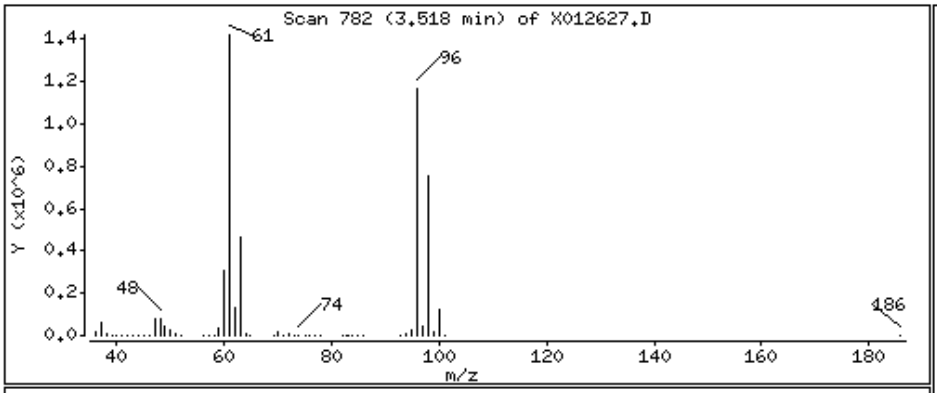
Client ID: HS23011136-05 Instrument: voa6.i

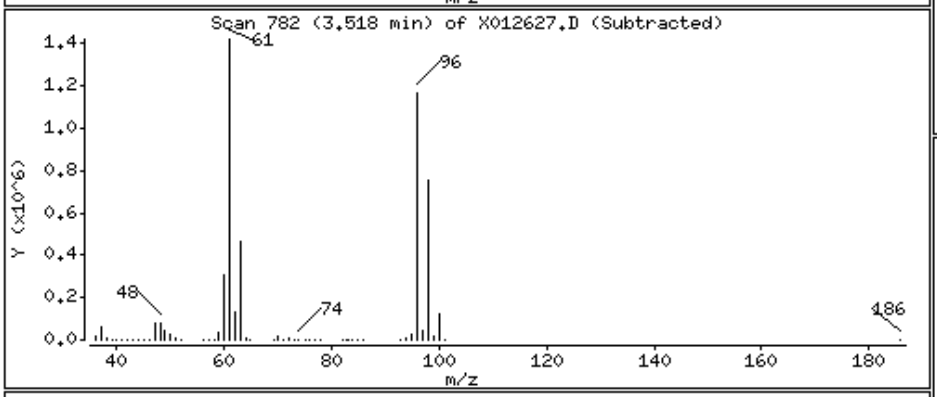
Sample Info: HS23011136-05;HS23011136-05;;;

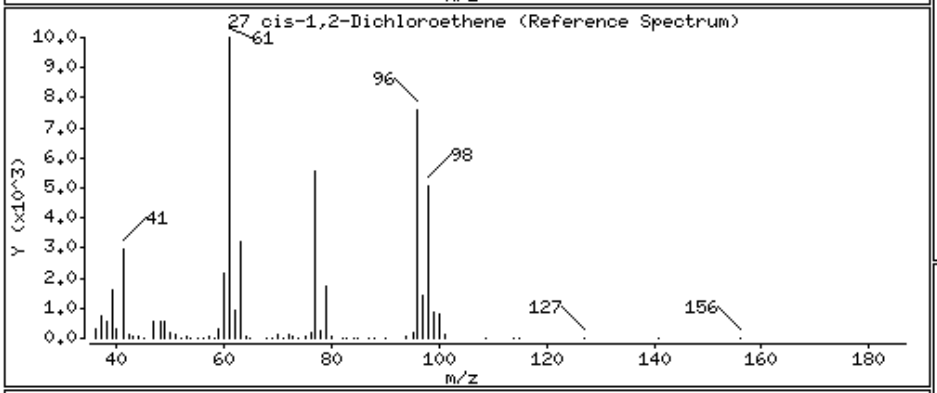
Purge Volume: 5.0 Operator: FT

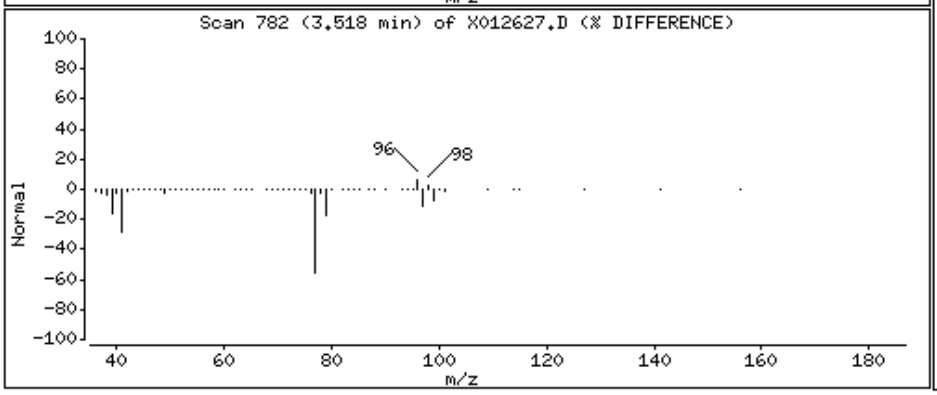
Column phase: DB624 Column diameter: 0.18

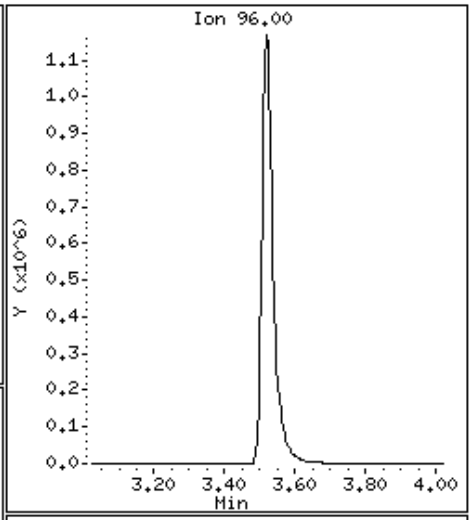
27 cis-1,2-Dichloroethene Concentration: 19111.59 ug/l

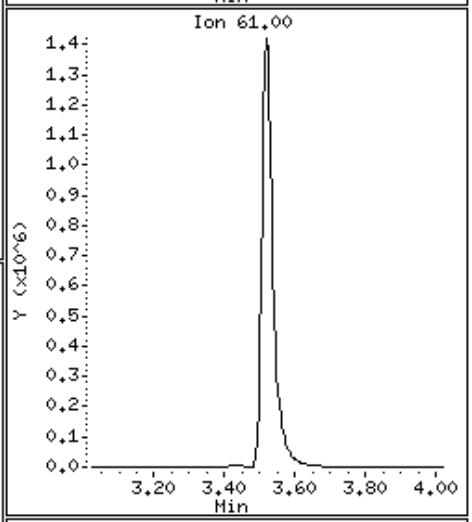


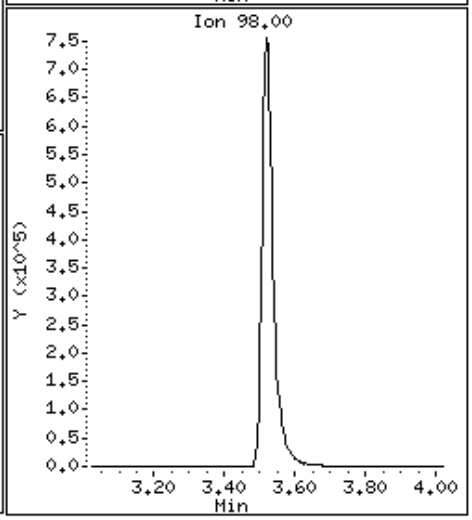












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D Page 6

Date : 26-JAN-2023 17:31

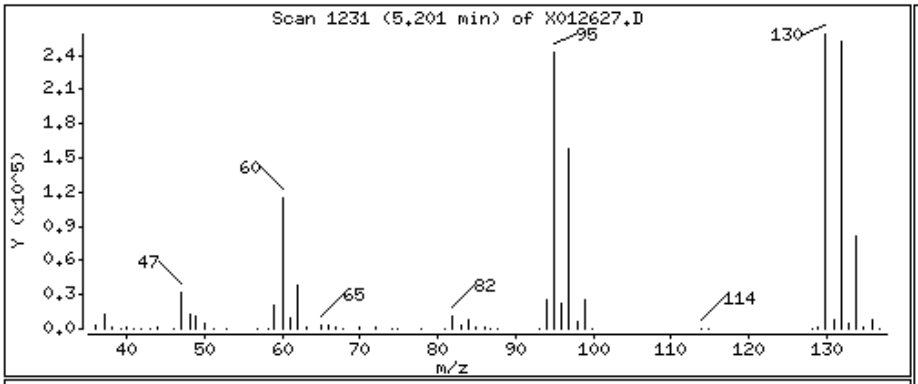
Client ID: HS23011136-05 Instrument: voa6.i

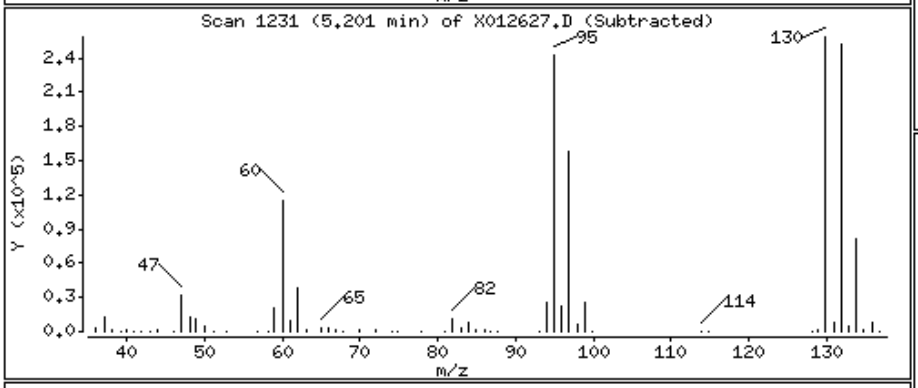
Sample Info: HS23011136-05;HS23011136-05;;;

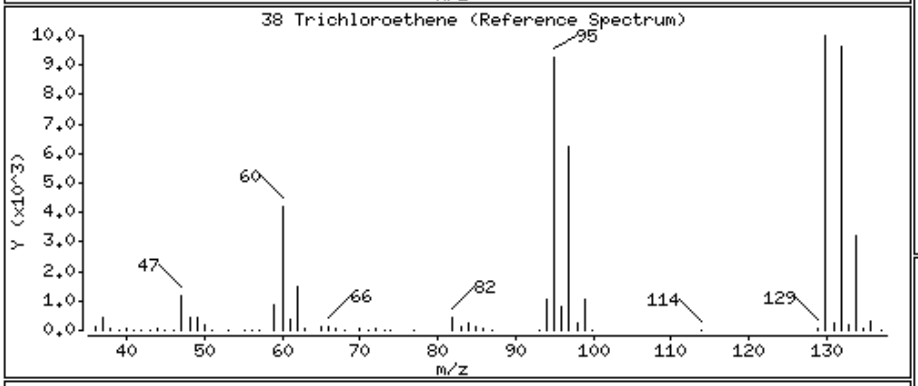
Purge Volume: 5.0 Operator: FT

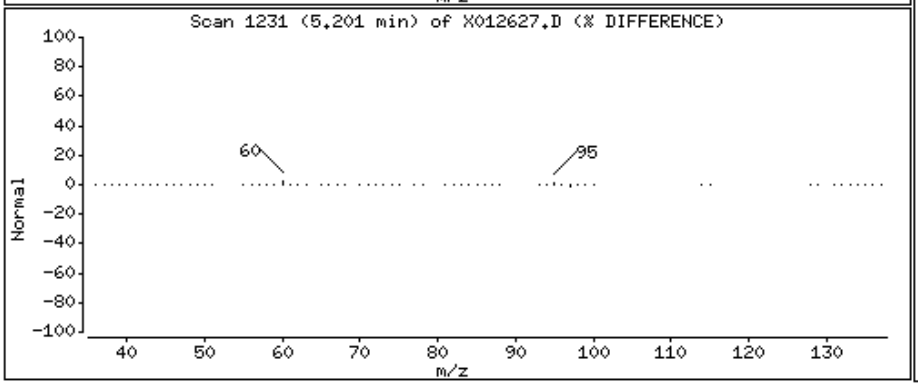
Column phase: DB624 Column diameter: 0.18

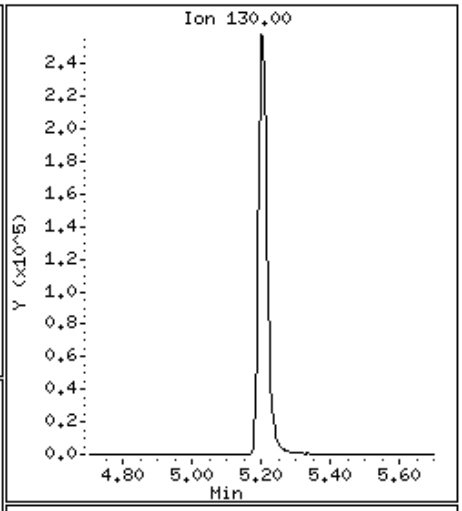
38 Trichloroethene Concentration: 3646.62 ug/l

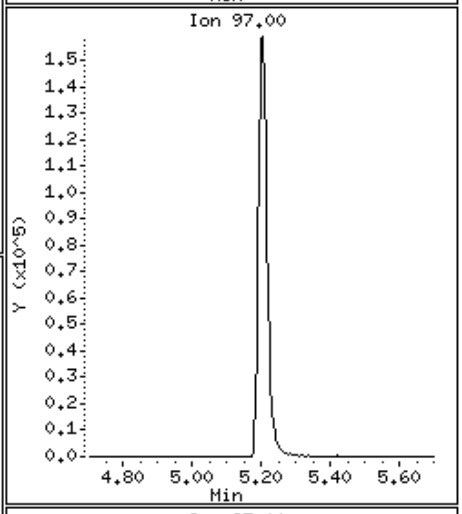


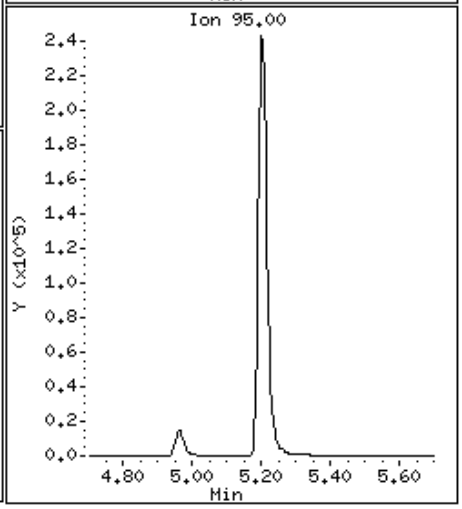












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D Page 7

Date : 26-JAN-2023 17:31

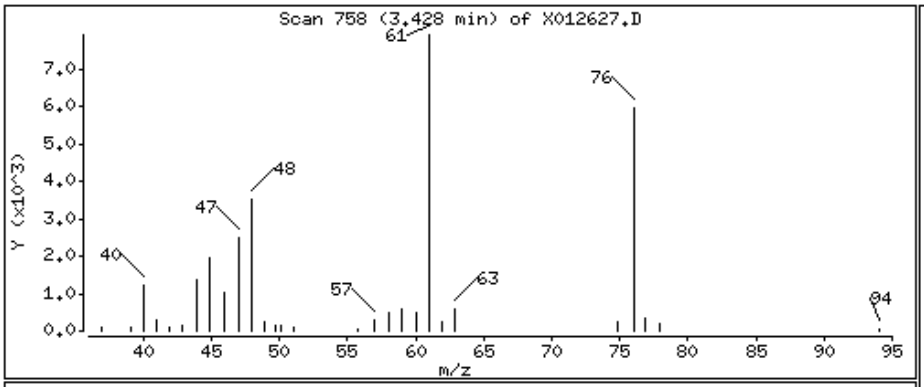
Client ID: HS23011136-05 Instrument: voa6.i

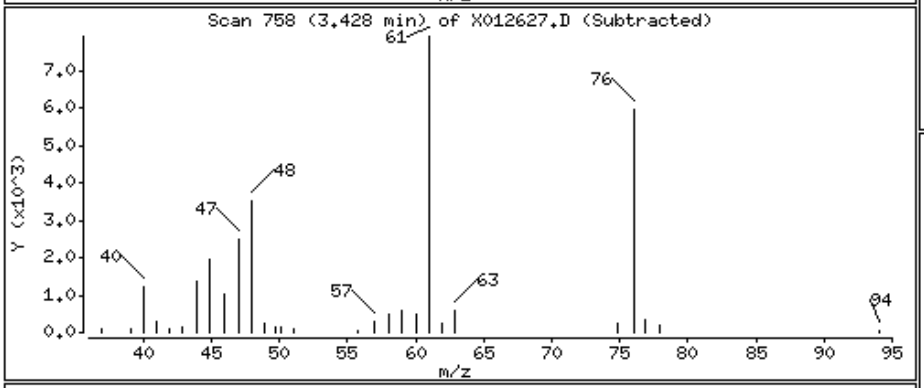
Sample Info: HS23011136-05;HS23011136-05;;;

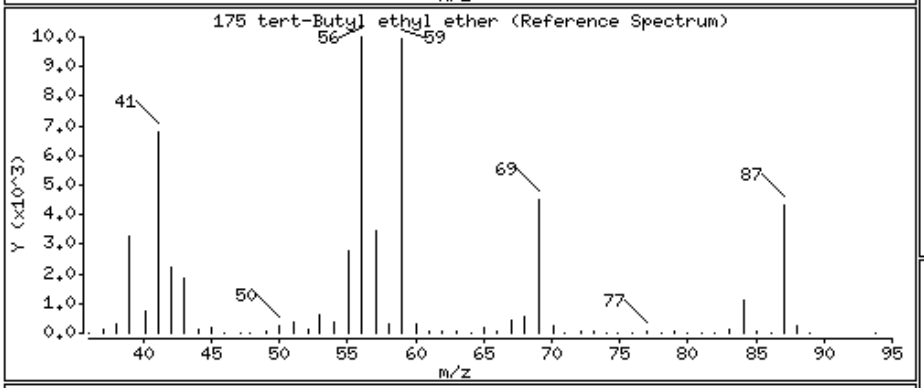
Purge Volume: 5.0 Operator: FT

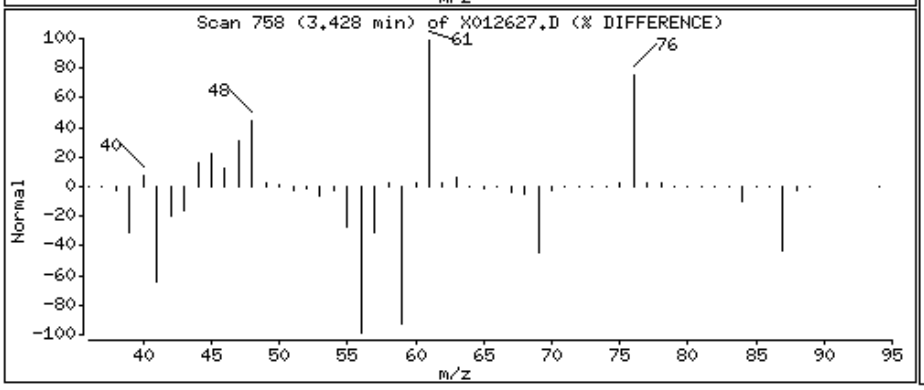
Column phase: DB624 Column diameter: 0.18

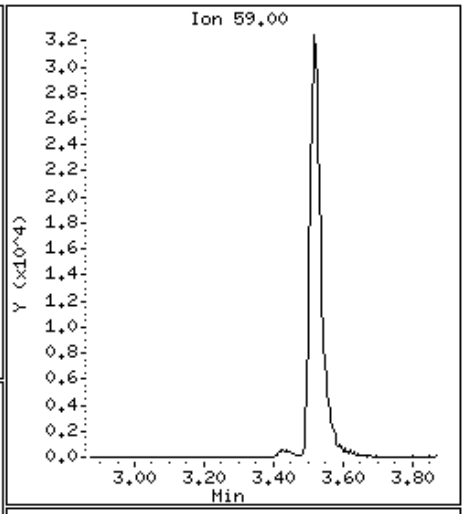
175 tert-Butyl ethyl ether Concentration: 3.85 ug/l

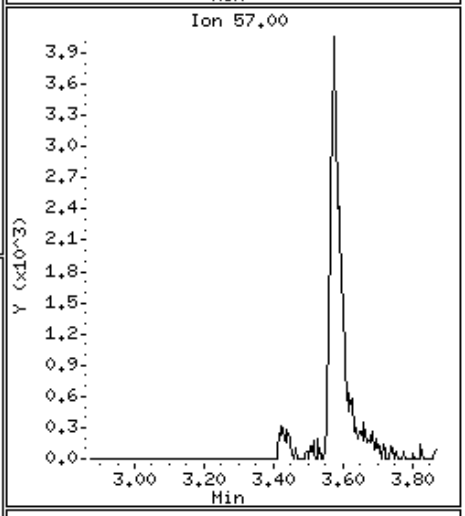


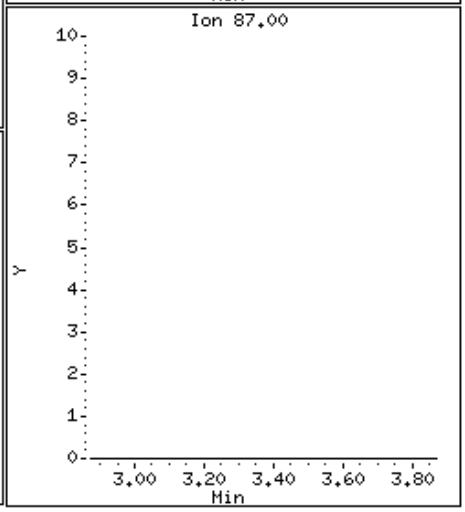












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D Page 8

Date : 26-JAN-2023 17:31

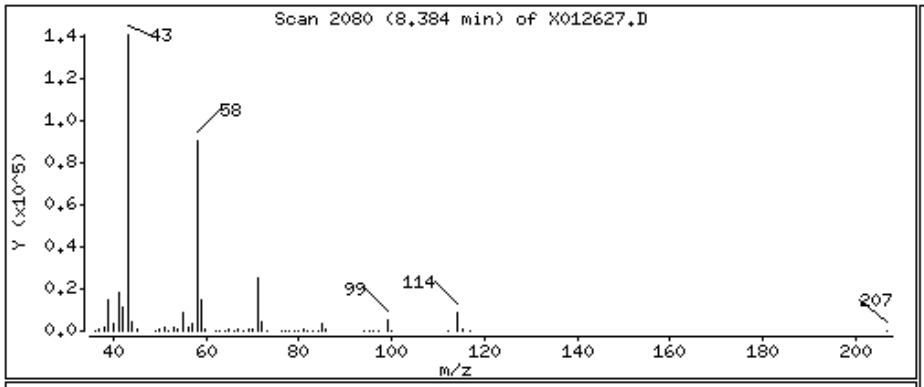
Client ID: HS23011136-05 Instrument: voa6.i

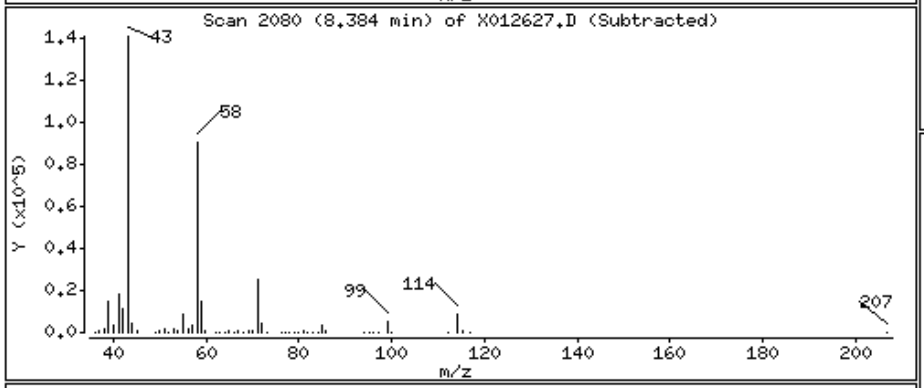
Sample Info: HS23011136-05;HS23011136-05;;;

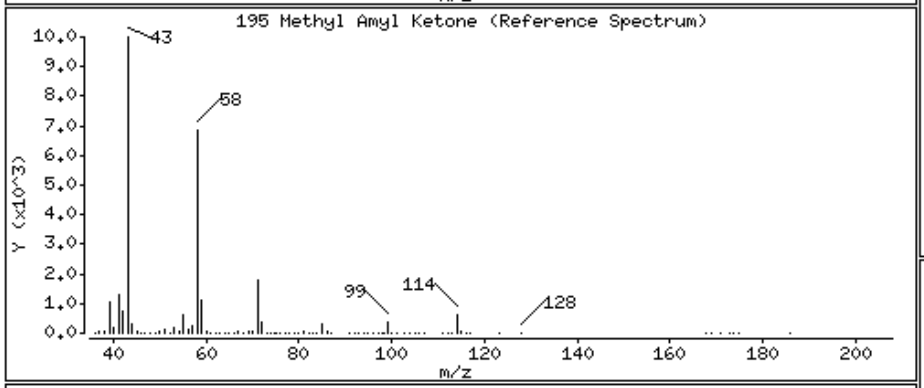
Purge Volume: 5.0 Operator: FT

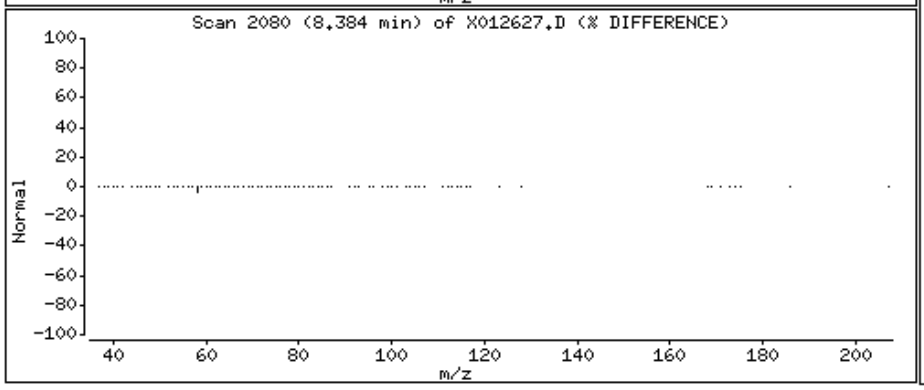
Column phase: DB624 Column diameter: 0.18

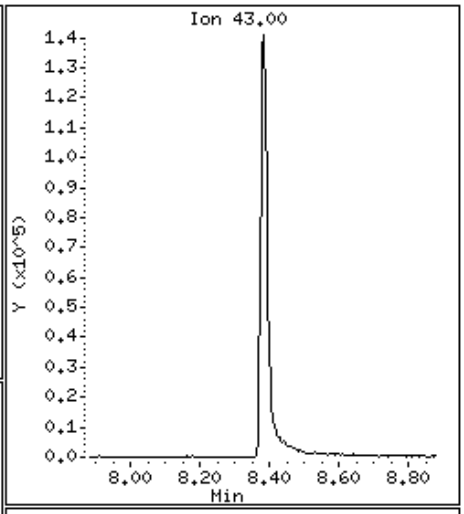
195 Methyl Amyl Ketone Concentration: 970.04 ug/l

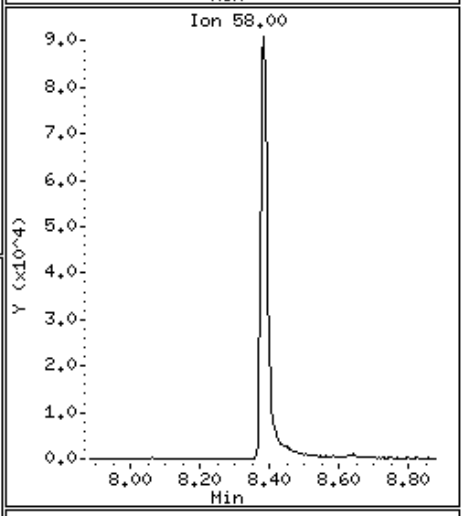


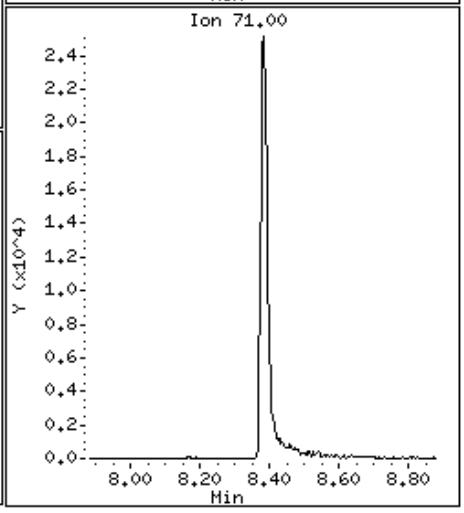












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012627.D
Inj Date : 26-JAN-2023 17:31
InstruID : voa6.i
LabSampID : HS23011136-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012628.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012628.D
Lab Smp Id: HS23011136-06 Client Smp ID: HS23011136-06
Inj Date : 26-JAN-2023 17:52
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-06;HS23011136-06;;;
Misc Info : V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 27
Dil Factor: 50.00000
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	50.000	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	4.174	4.174	(1.000)	665295	50.0000	
5 Vinyl Chloride	62	1.141	1.141	(0.274)	149187	25.6700	1283.50
10 Acetone	43	1.966	1.966	(0.471)	415550	222.647	11132.35
27 cis-1,2-Dichloroethene	96	3.518	3.521	(0.843)	2177342	316.600	15830.00(A)
$ 30 Dibromofluoromethane	113	4.091	4.095	(0.980)	291351	45.5935	45.59
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	336712	49.9385	49.93
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	931881	50.0000	
38 Trichloroethene	130	5.205	5.205	(1.049)	153652	24.3440	1217.20
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	836237	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1080447	52.2864	52.28
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	394798	51.1123	51.11
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	433846	50.0000	
M 94 1,2-Dichloroethylene (total)	96				2177342	316.600	15830.00
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	428115	38.5058	1925.28
200 Dimethyl Disulfide	94	6.209	6.194	(0.810)	1744	0.15409	7.70(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\voa6.i\X230126.b\X012628.D

Page 1

Date : 26-JAN-2023 17:52

Client ID: HS23011136-06

Instrument: voa6.i

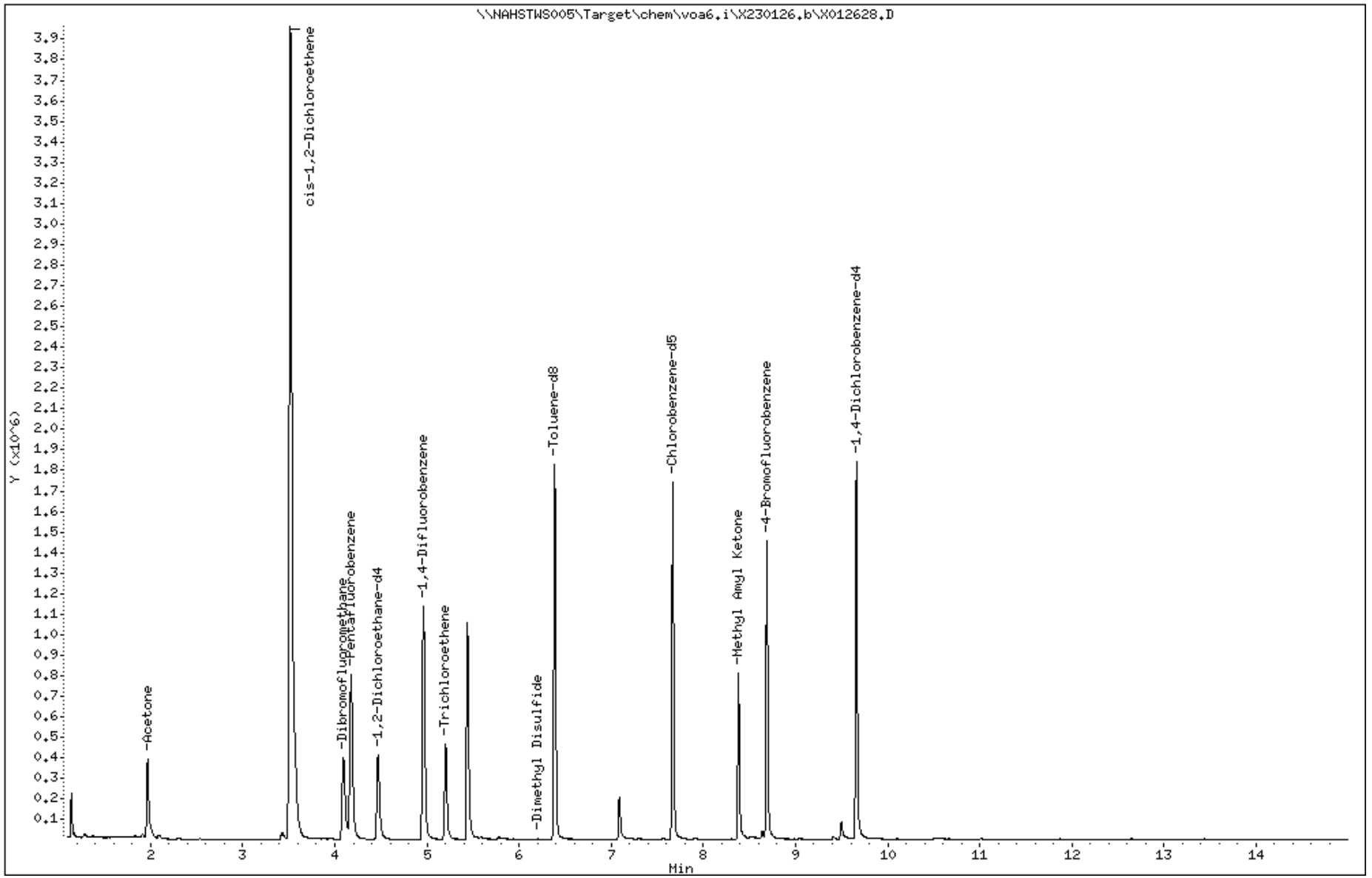
Sample Info: HS23011136-06;HS23011136-06;;;

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012628.D Page 2

Date : 26-JAN-2023 17:52

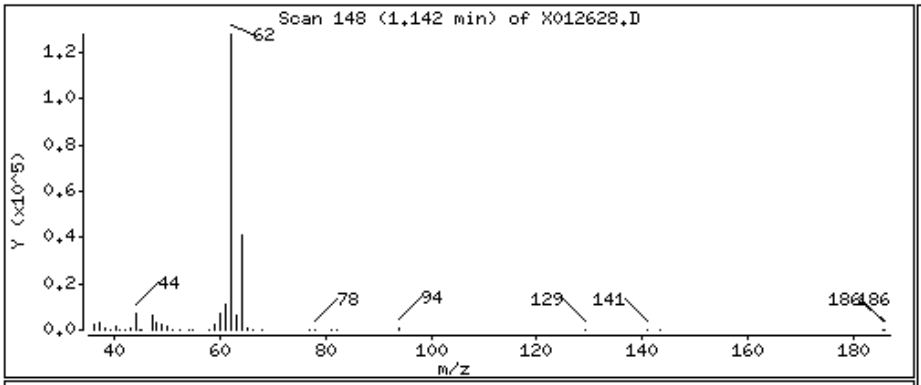
Client ID: HS23011136-06 Instrument: voa6.i

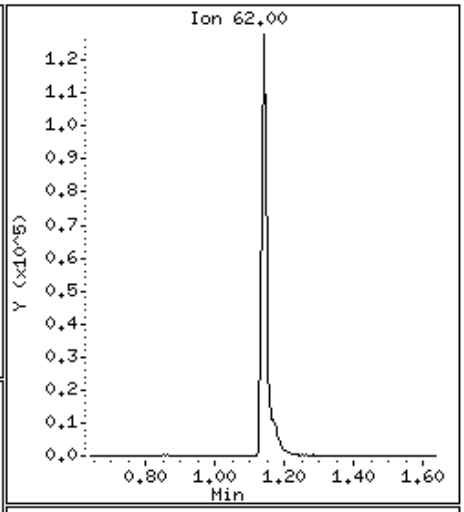
Sample Info: HS23011136-06;HS23011136-06;;;

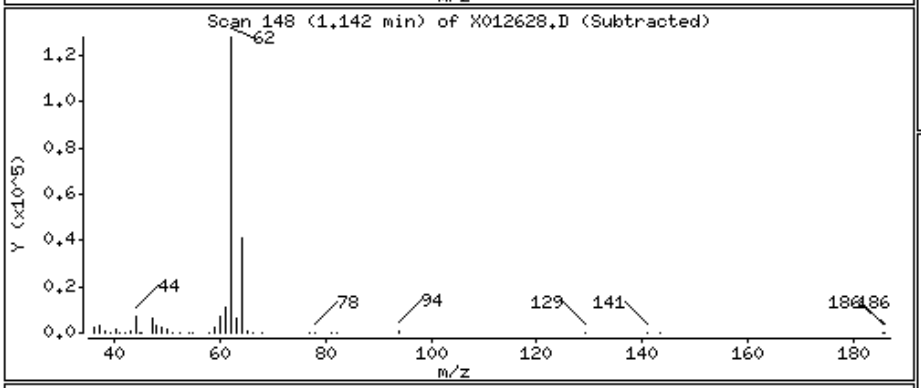
Purge Volume: 5.0 Operator: FT

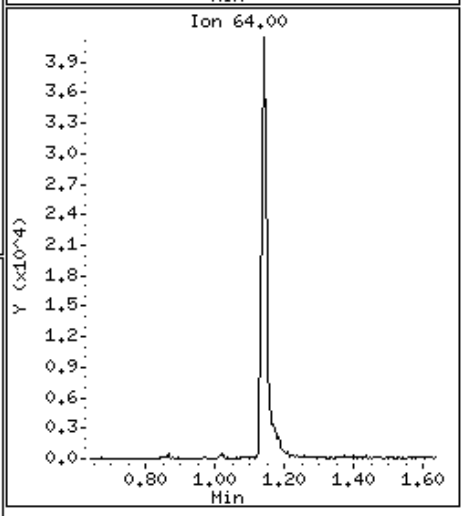
Column phase: DB624 Column diameter: 0.18

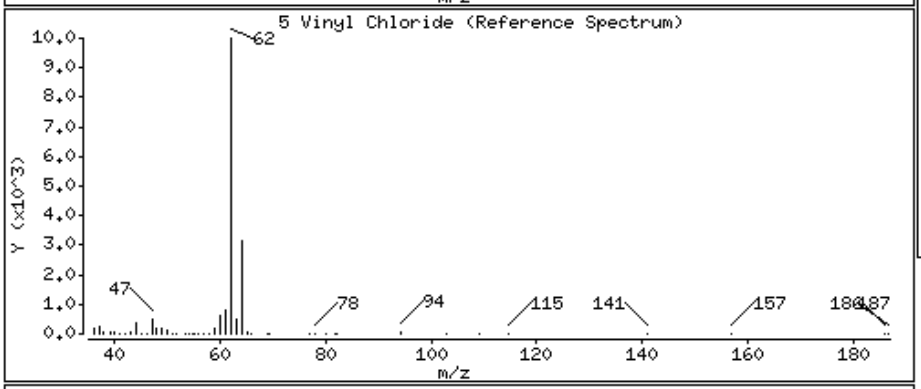
5 Vinyl Chloride Concentration: 1283.50 ug/l

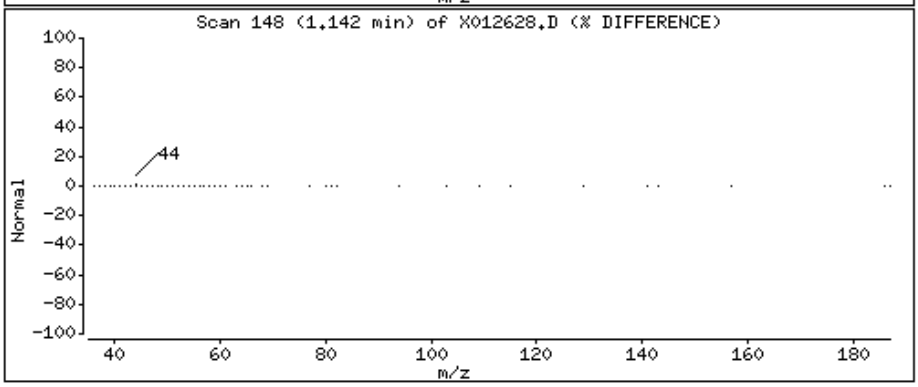












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012628.D Page 3

Date : 26-JAN-2023 17:52

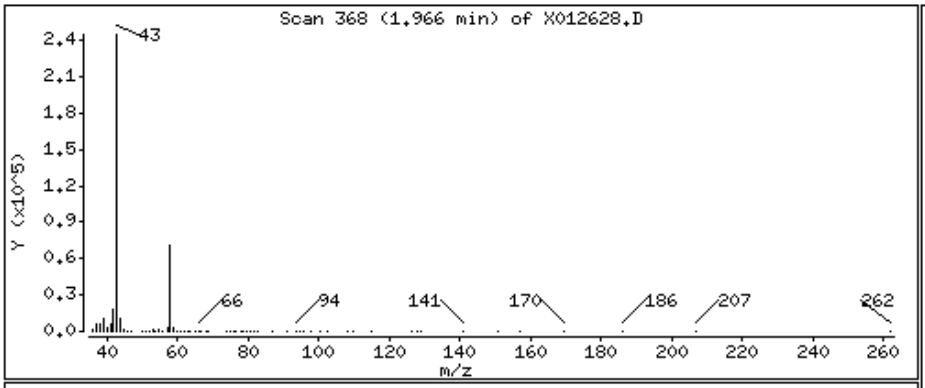
Client ID: HS23011136-06 Instrument: voa6.i

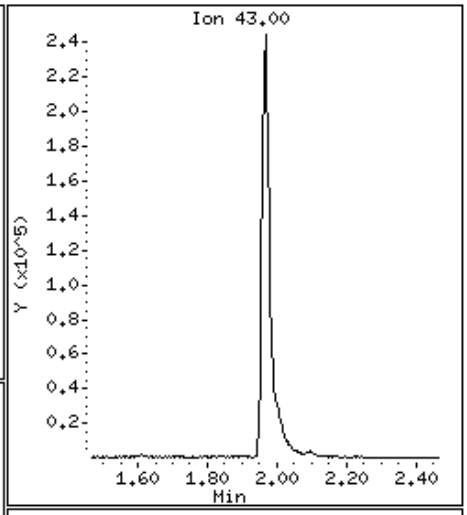
Sample Info: HS23011136-06;HS23011136-06;;;

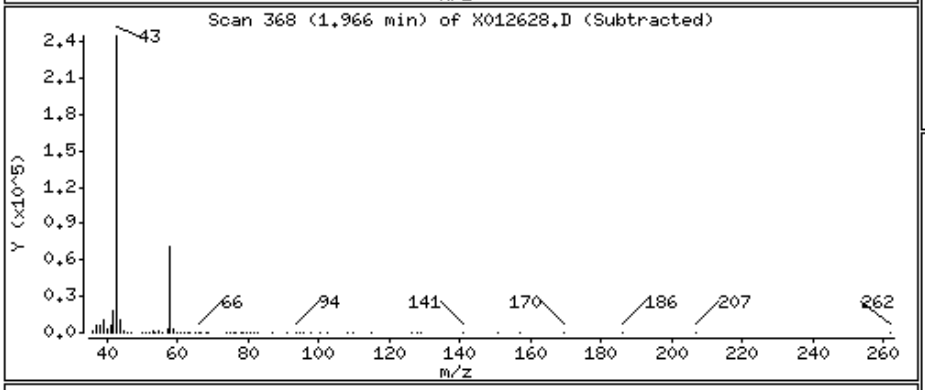
Purge Volume: 5.0 Operator: FT

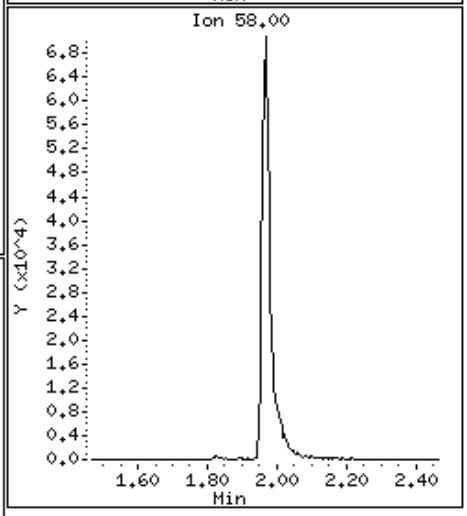
Column phase: DB624 Column diameter: 0.18

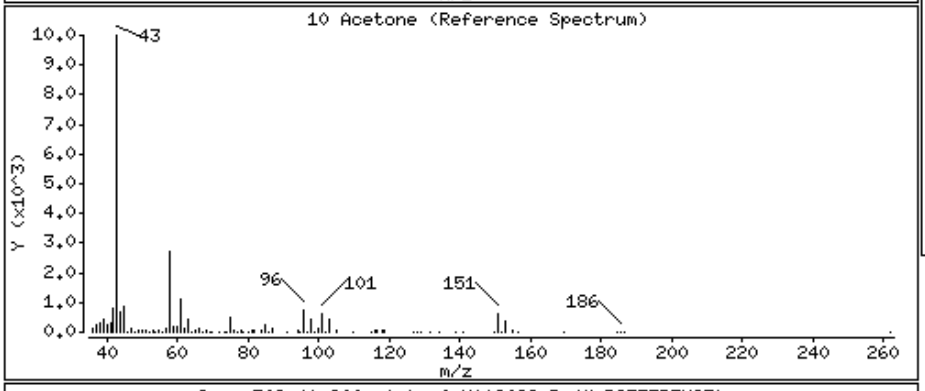
10 Acetone Concentration: 11132.35 ug/l

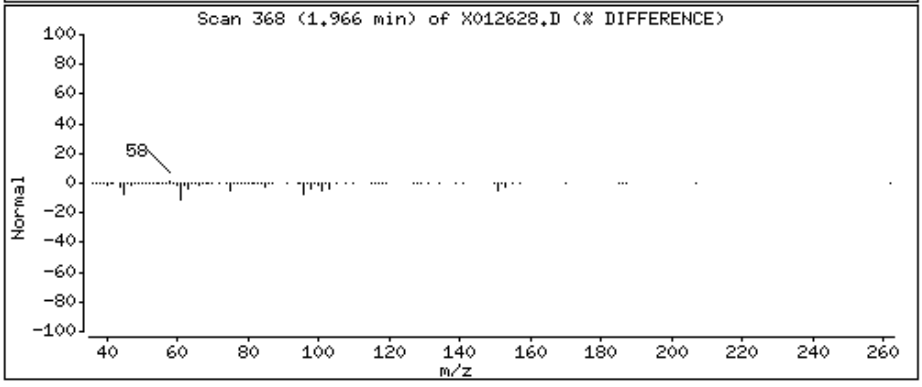












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012628.D Page 4

Date : 26-JAN-2023 17:52

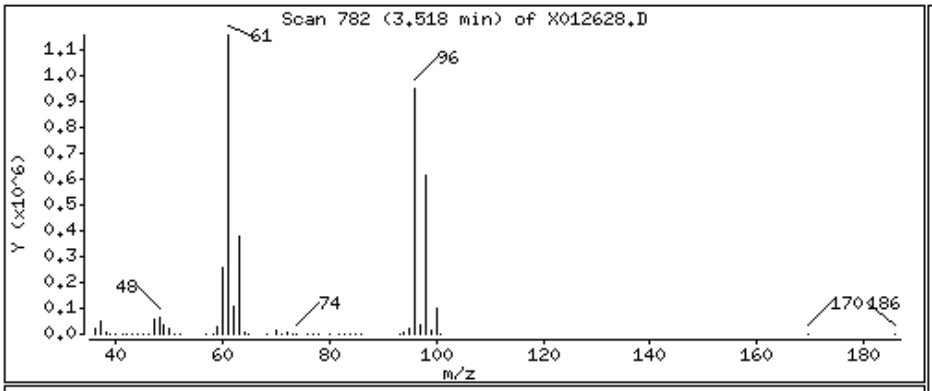
Client ID: HS23011136-06 Instrument: voa6.i

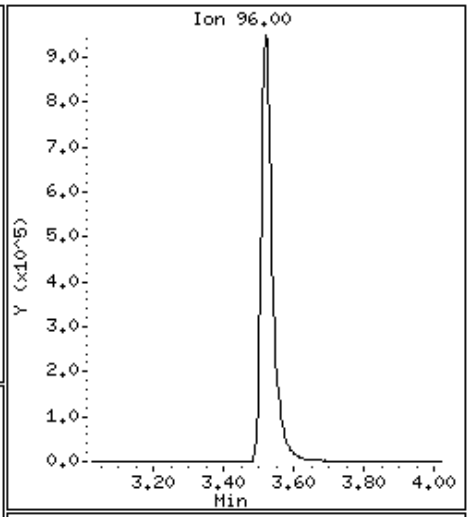
Sample Info: HS23011136-06;HS23011136-06;;;

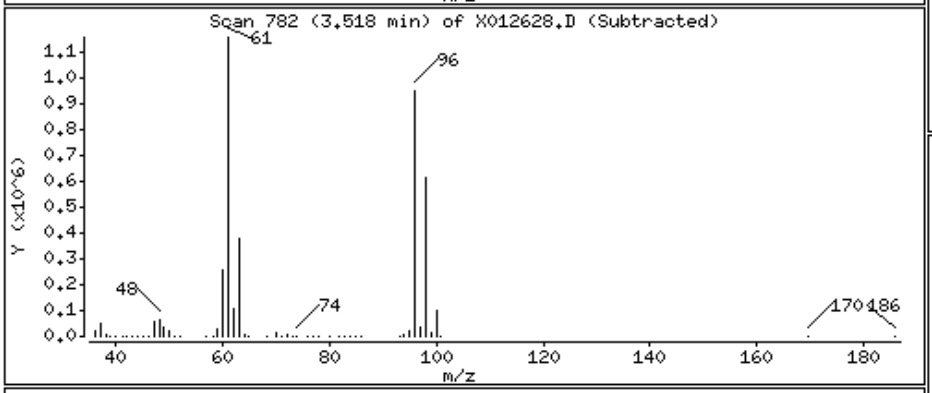
Purge Volume: 5.0 Operator: FT

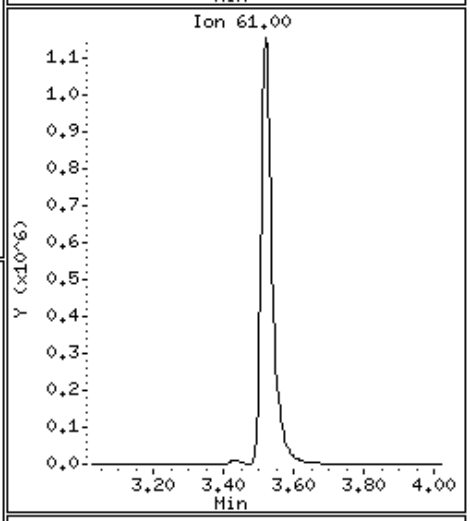
Column phase: DB624 Column diameter: 0.18

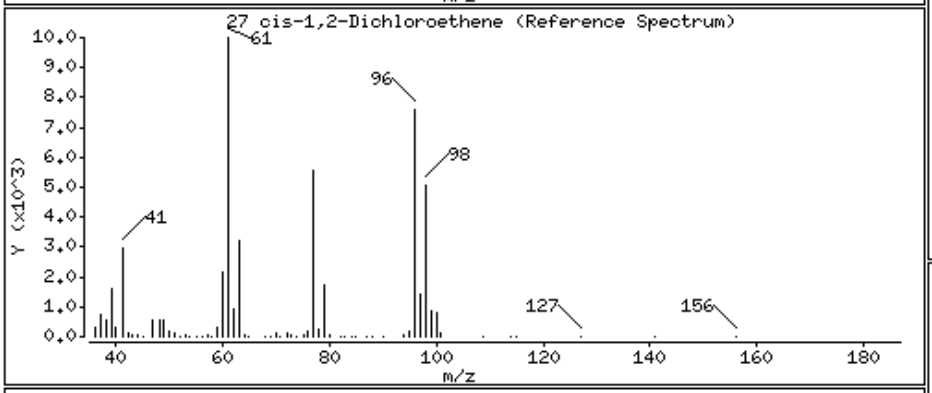
27 cis-1,2-Dichloroethene Concentration: 15830.00 ug/l

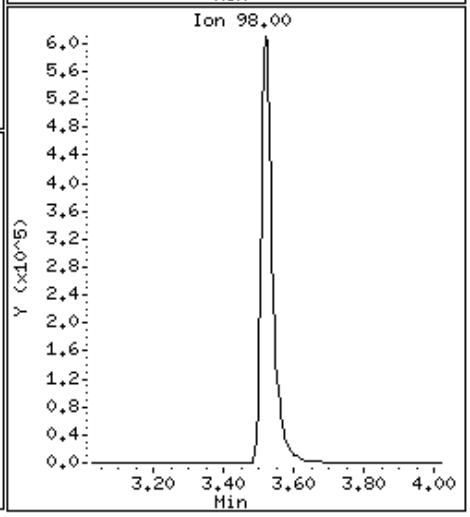


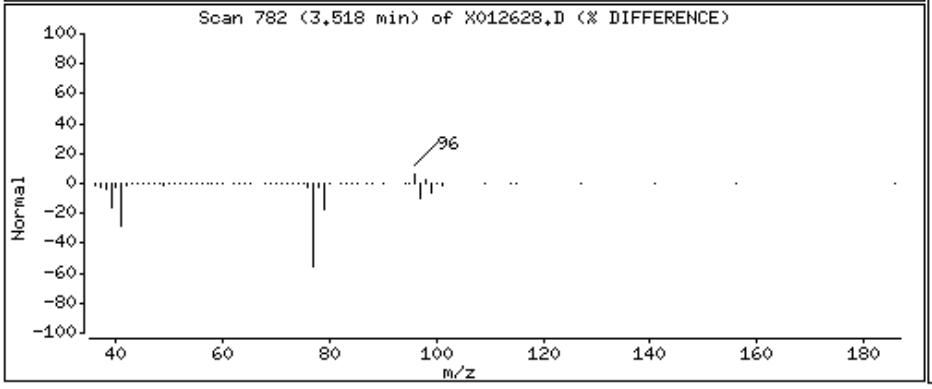












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012628.D Page 5

Date : 26-JAN-2023 17:52

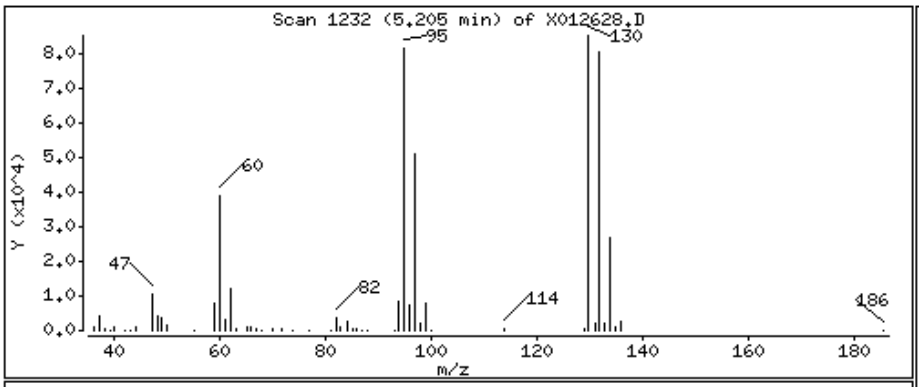
Client ID: HS23011136-06 Instrument: voa6.i

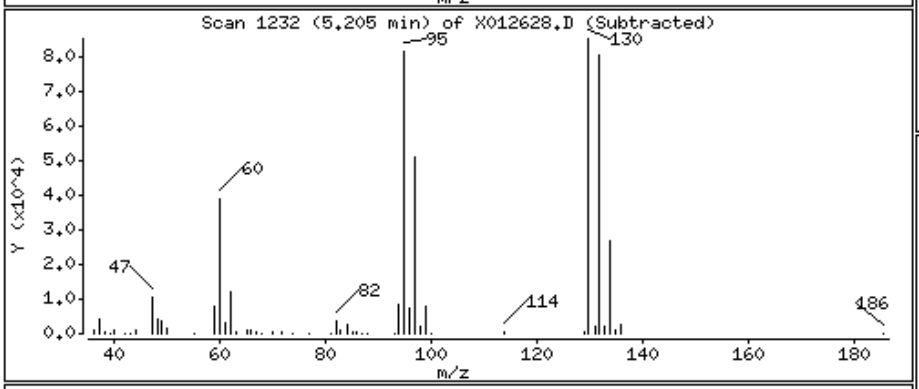
Sample Info: HS23011136-06;HS23011136-06;;;

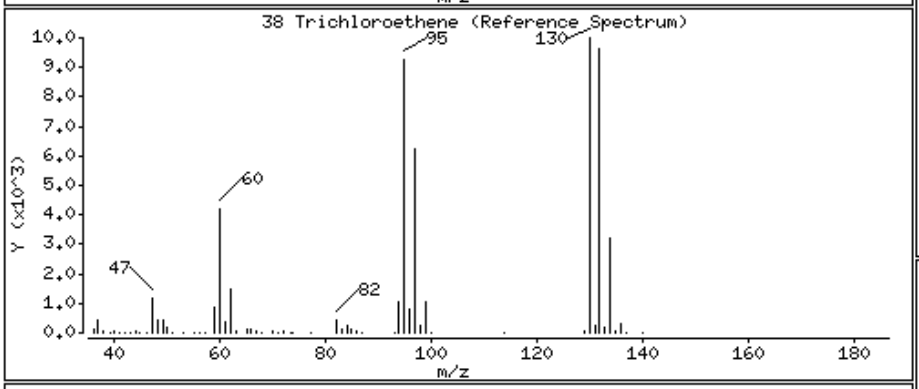
Purge Volume: 5.0 Operator: FT

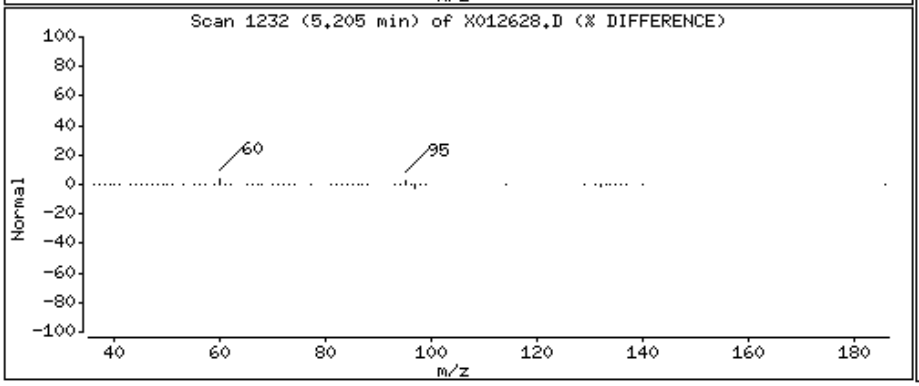
Column phase: DB624 Column diameter: 0.18

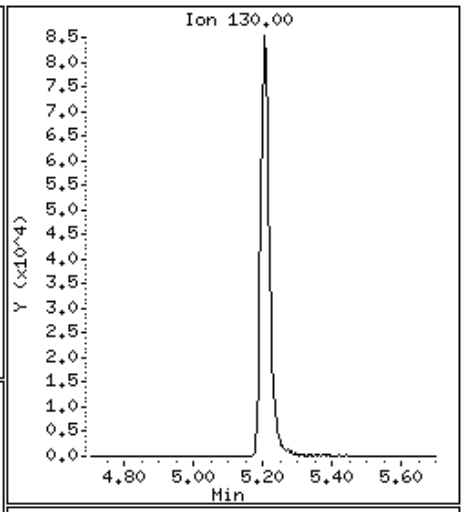
38 Trichloroethene Concentration: 1217.20 ug/l

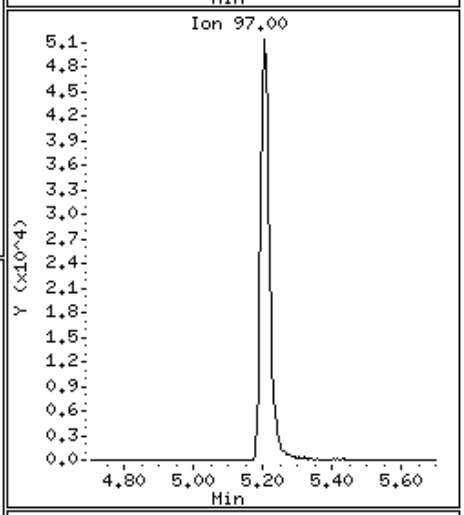


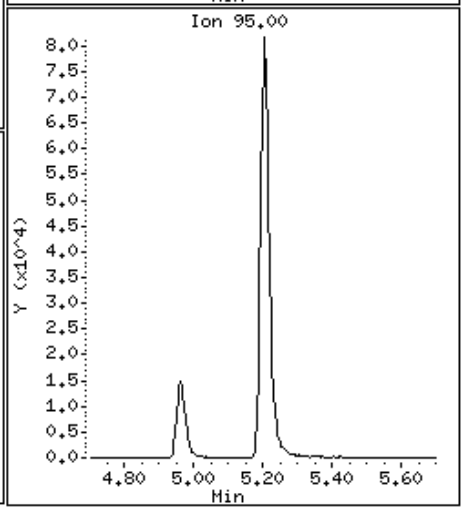












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012628.D Page 6

Date : 26-JAN-2023 17:52

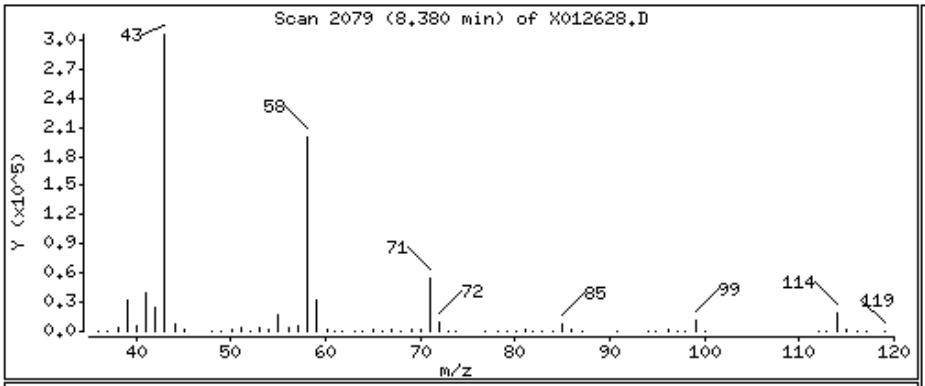
Client ID: HS23011136-06 Instrument: voa6.i

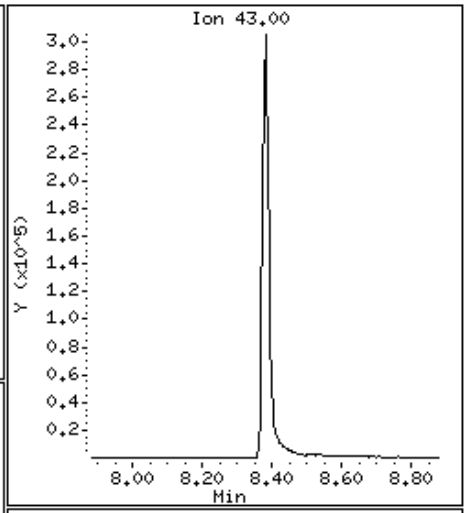
Sample Info: HS23011136-06;HS23011136-06;;;

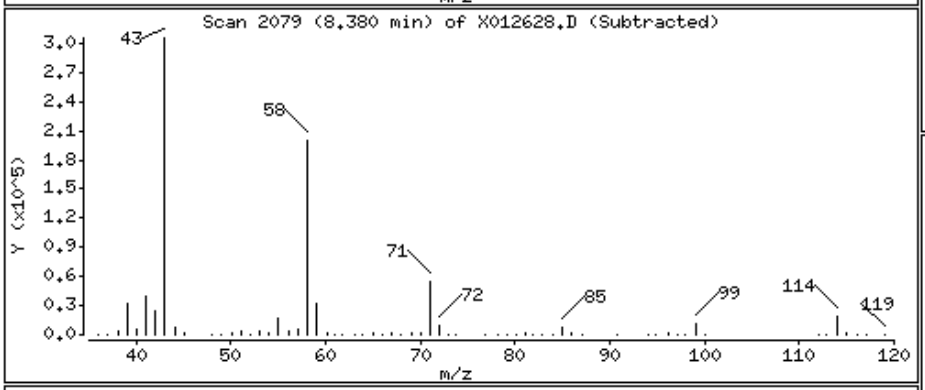
Purge Volume: 5.0 Operator: FT

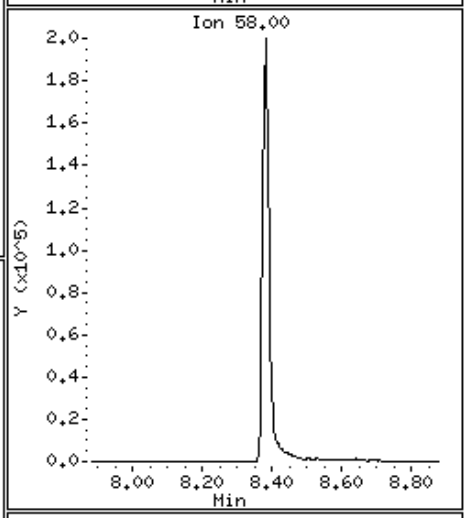
Column phase: DB624 Column diameter: 0.18

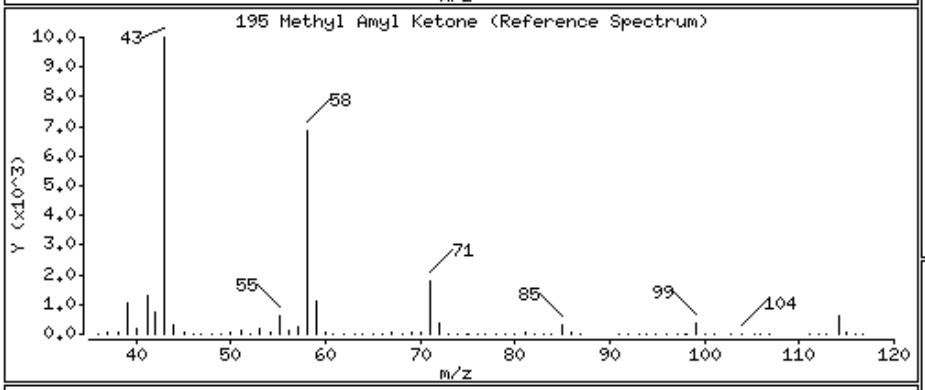
195 Methyl Amyl Ketone Concentration: 1925.28 ug/l

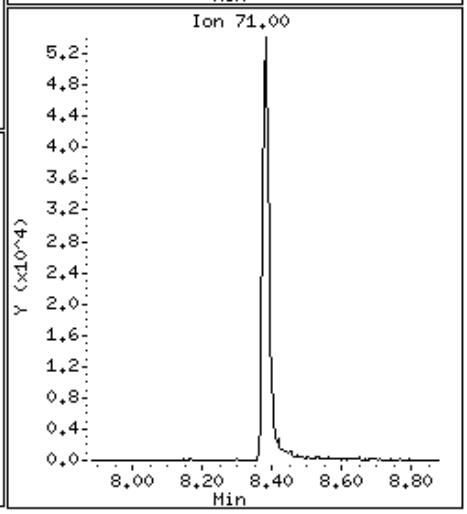


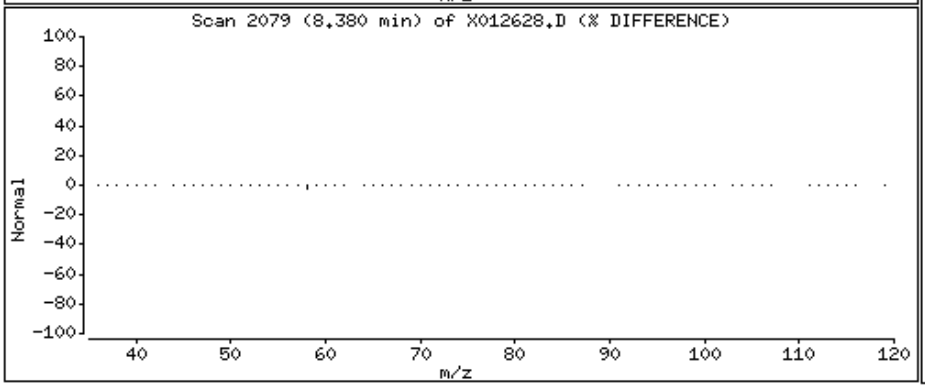












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Date : 26-JAN-2023 17:52

Client ID: HS23011136-06

Instrument: voa6.i

Sample Info: HS23011136-06;HS23011136-06;;;

Purge Volume: 5.0

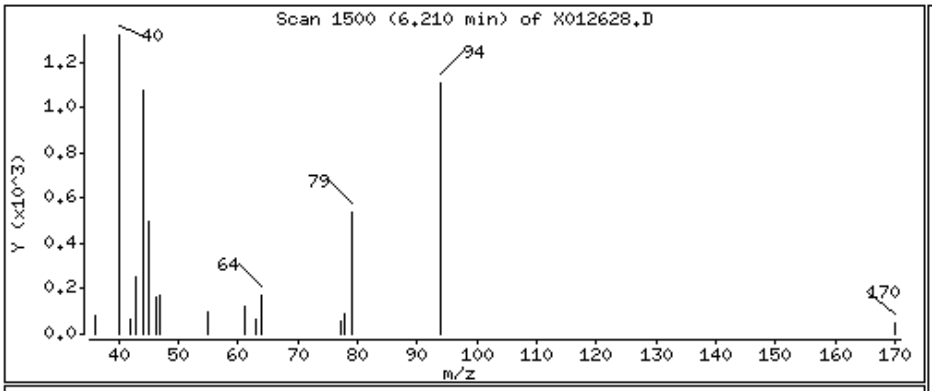
Operator: FT

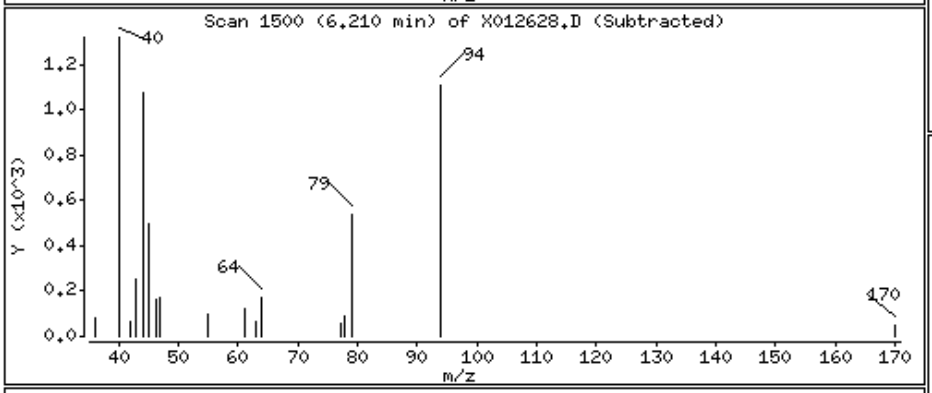
Column phase: DB624

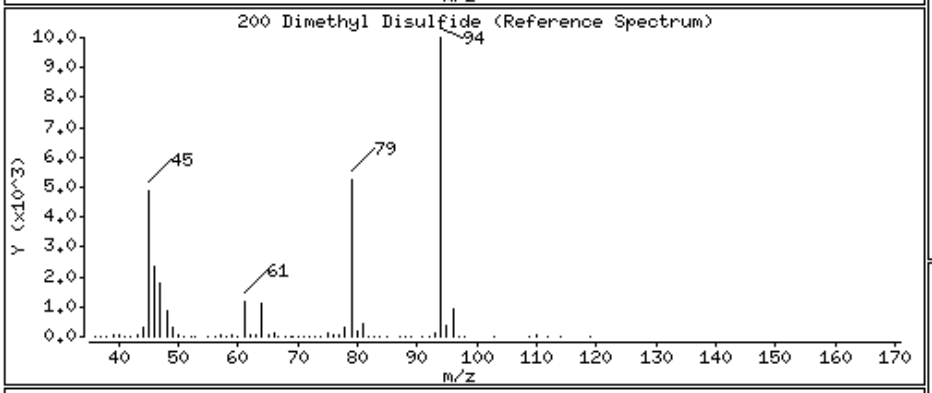
Column diameter: 0.18

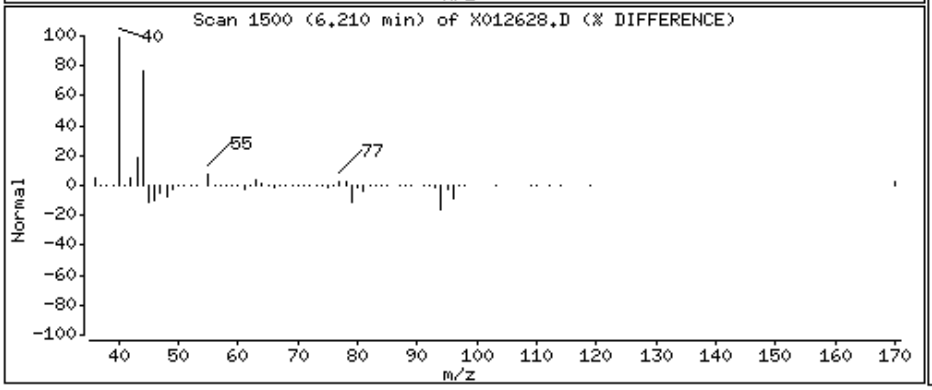
200 Dimethyl Disulfide

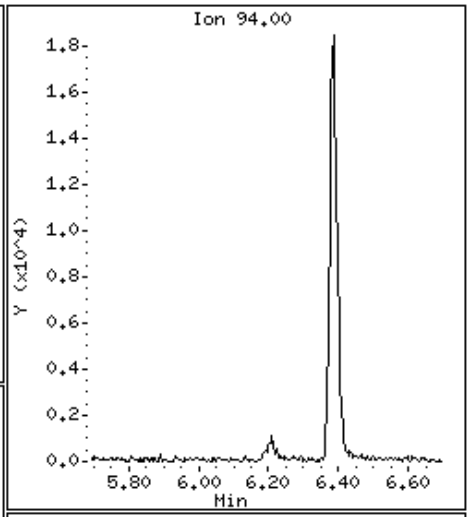
Concentration: 7.70 ug/l

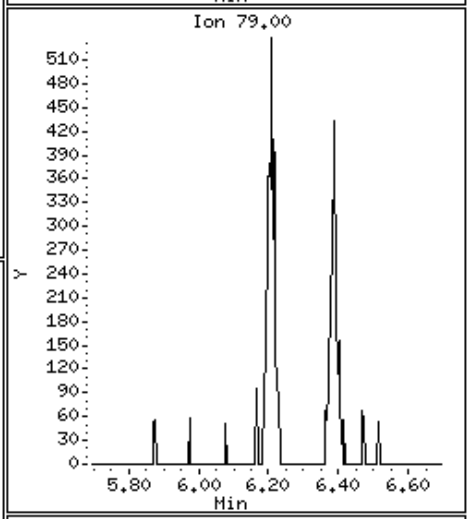


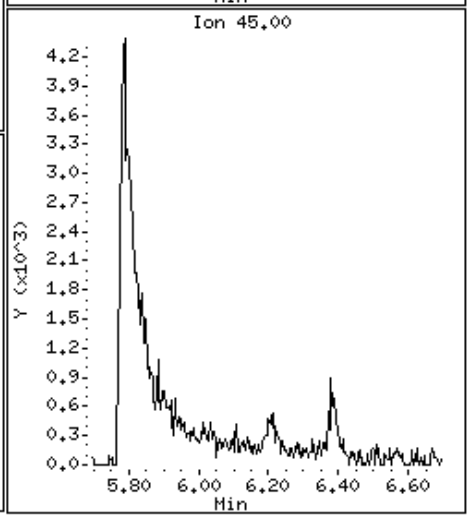












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Inj Date : 26-JAN-2023 17:52
InstruID : voa6.i
LabSampID : HS23011136-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012629.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012629.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 26-JAN-2023 18:12
Operator : FT Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 28 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	4.174	4.174	(1.000)	542544	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	165427	50.0000	43.64
3 Chloromethane	50	1.074	1.074	(0.257)	215601	50.0000	44.19
4 Propionitrile	54	3.645	3.645	(0.873)	275741	500.000	498.09
5 Vinyl Chloride	62	1.137	1.137	(0.273)	218131	50.0000	46.02
6 Bromomethane	94	1.336	1.336	(0.320)	158347	50.0000	44.37
7 Chloroethane	64	1.400	1.400	(0.335)	140058	50.0000	42.45
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	346377	50.0000	52.22
9 Acrolein	56	1.441	1.441	(0.345)	32264	100.000	87.32
10 Acetone	43	1.966	1.966	(0.471)	142268	100.000	93.45
11 1,1-Dichloroethene	96	1.909	1.909	(0.458)	201919	50.0000	49.03
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	660325	1000.00	1082.06
13 Acetonitrile	39	2.194	2.194	(0.526)	266183	500.000	539.06
14 Allyl Chloride	41	2.194	2.194	(0.526)	470664	50.0000	50.04
15 Iodomethane	142	2.022	2.022	(0.485)	512772	100.000	94.87
16 Acrylonitrile	53	2.528	2.528	(0.606)	145807	100.000	104.40
17 Methylene Chloride	84	2.299	2.299	(0.551)	262232	50.0000	46.42
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	661796	50.0000	49.10
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1109385	100.000	102.97
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	233150	50.0000	50.59

21 Vinyl Acetate	43	2.993	2.993 (0.717)	1155821	100.000	97.69
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	407489	50.0000	50.38

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012629.D Page 2
Report Date: 13-Feb-2023 13:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	86810	50.0000	47.05(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	160681	100.000	99.52
	25 Methacrylonitrile	41	3.810	3.810	(0.913)	189690	50.0000	49.37(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.840)	349667	50.0000	50.91
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.844)	275156	50.0000	49.06
	28 Chloroform	83	3.900	3.900	(0.934)	464775	50.0000	51.27
	29 Bromochloromethane	128	3.788	3.788	(0.908)	142555	50.0000	46.42
$	30 Dibromofluoromethane	113	4.091	4.091	(0.980)	247275	50.0000	47.45
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	407600	50.0000	56.67
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	342156	50.0000	58.80
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	367114	50.0000	54.66
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	348902	50.0000	56.15
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	287609	50.0000	52.29
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	819604	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	1000924	50.0000	51.14
	38 Trichloroethene	130	5.201	5.201	(1.048)	300745	50.0000	54.17
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	369012	50.0000	50.23
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	205014	50.0000	55.41
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	229275	100.000	109.71
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	255804	50.0000	49.13
	43 2-Nitropropane	43	5.965	5.965	(1.429)	72591	50.0000	52.98
	44 Dibromomethane	93	5.549	5.549	(1.119)	172222	50.0000	48.66
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	436991	100.000	104.53
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	435656	50.0000	50.50
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	782109	50.0000	
$	48 Toluene-d8	98	6.382	6.382	(0.832)	912074	50.0000	47.19
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	197730	50.0000	51.23
	50 Toluene	91	6.442	6.442	(0.840)	1123292	50.0000	51.96
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	378776	50.0000	52.91
	52 2-Hexanone	43	7.083	7.083	(0.924)	305845	100.000	107.53
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	208830	50.0000	48.15
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	423240	50.0000	49.58
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	312679	50.0000	49.95
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	255787	50.0000	57.18
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	275813	50.0000	50.86
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	240271	50.0000	60.66
	59 Chlorobenzene	112	7.690	7.690	(1.003)	763078	50.0000	49.76
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	291284	50.0000	51.04
	61 Ethylbenzene	106	7.795	7.795	(1.017)	397563	50.0000	55.04
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1002544	100.000	107.67
	63 o-Xylene	106	8.241	8.241	(1.075)	481568	50.0000	52.40
	64 Styrene	104	8.256	8.256	(1.077)	832278	50.0000	54.03
	66 Bromoform	173	8.406	8.406	(1.096)	213349	50.0000	49.19
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1251152	50.0000	59.59
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	331162	50.0000	46.12
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	363901	50.0000	50.37
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	450450	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	276444	50.0000	55.15
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	86652	50.0000	51.32
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1471962	50.0000	58.99
	74 Bromobenzene	156	8.803	8.803	(0.911)	369273	50.0000	49.96
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1072502	50.0000	58.18

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	891332	50.0000	54.43
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1040667	50.0000	55.75

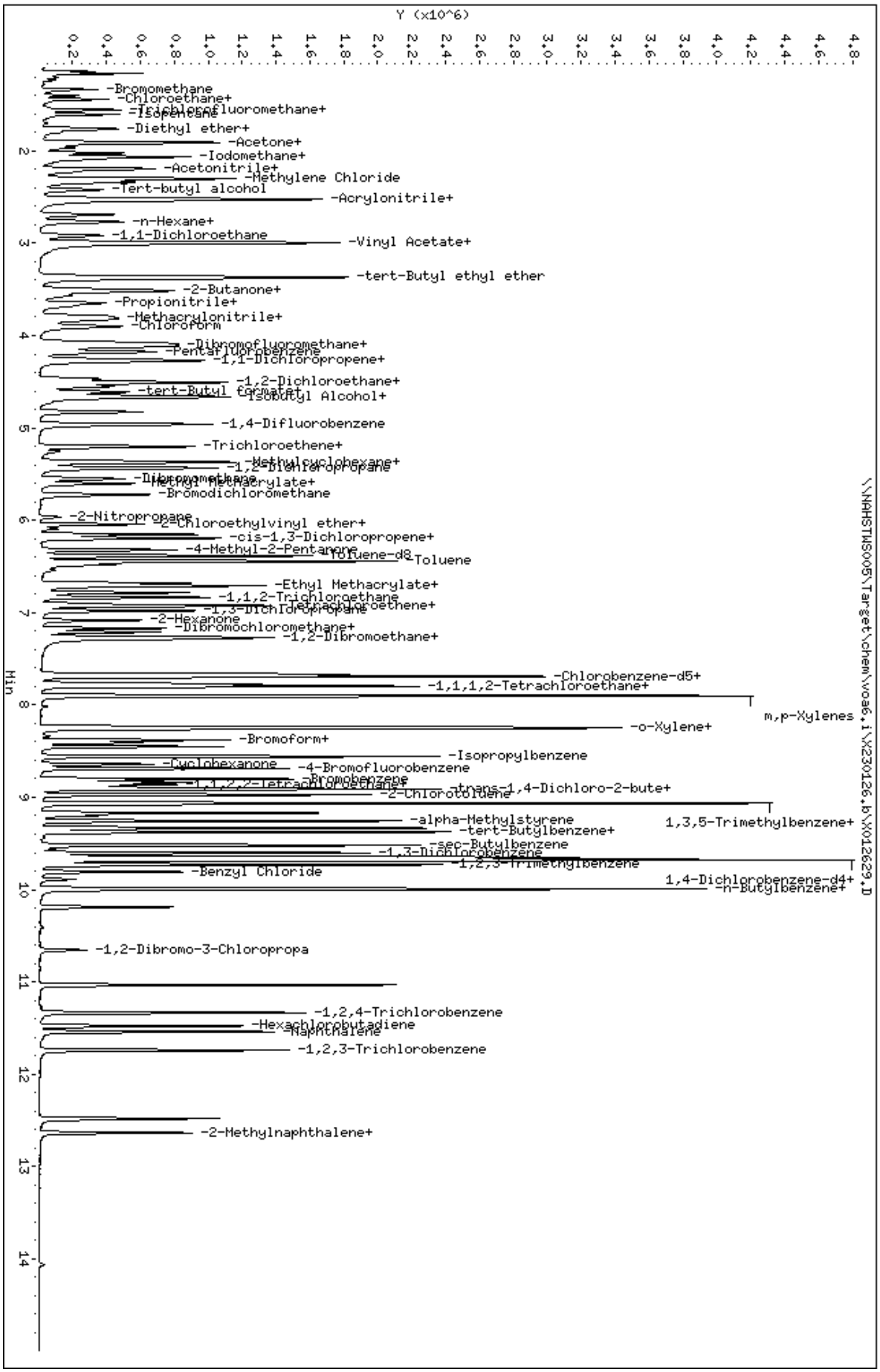
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	910730	50.0000	60.36
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1080032	50.0000	55.68
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1280500	50.0000	63.78
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1134493	50.0000	63.06
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	652432	50.0000	53.18
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	683753	50.0000	51.08
86	Benzyl Chloride	91	9.808	9.808	(1.279)	486671	50.0000	40.31
87	n-Butylbenzene	91	9.992	9.992	(1.034)	992044	50.0000	56.96
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	644459	50.0000	51.01
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	55596	50.0000	48.43
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	445285	50.0000	55.85
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	199983	50.0000	56.51
92	Naphthalene	128	11.540	11.540	(1.194)	948591	50.0000	52.29
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	401139	50.0000	52.53
146	Methyl acetate	43	2.224	2.224	(0.533)	128700	50.0000	52.71
138	Freon TF	101	1.909	1.909	(0.458)	216253	50.0000	54.29
141	Cyclohexane	56	4.117	4.117	(0.987)	336036	50.0000	61.15
142	Tetrahydrofuran	42	3.836	3.836	(0.919)	65465	100.000	96.96
147	Methylcyclohexane	55	5.373	5.373	(1.083)	584257	50.0000	58.23
135	1,4-Dioxane	88	5.594	5.594	(1.340)	55756	1000.00	1124.24
132	n-Butanol	56	5.257	5.257	(1.260)	67995	1000.00	981.71
131	Methyl Acrylate	55	3.683	3.683	(0.882)	216328	50.0000	58.73
133	Ethyl Acrylate	55	5.373	5.373	(1.287)	584257	50.0000	54.77
136	n-Hexane	57	2.768	2.768	(0.663)	239774	50.0000	61.38
139	Diethyl ether	59	1.752	1.752	(0.420)	148049	50.0000	40.83
148	Tert-butyl alcohol	59	2.423	2.423	(0.581)	421700	1000.00	1122.51
149	Isopropyl alcohol	45	2.089	2.089	(0.501)	227839	1000.00	1161.28
156	Diisopropyl ether	45	2.997	2.997	(0.718)	696819	50.0000	49.51
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	373105	50.0000	42.69
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1113071	50.0000	51.31
167	Ethanol	45	1.700	1.700	(0.407)	34652	1000.00	980.36
172	tert-Butyl formate	59	4.612	4.612	(1.105)	324810	100.000	112.82
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	367670	1000.00	993.58
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	770623	50.0000	49.27
175	tert-Butyl ethyl ether	59	3.371	3.371	(0.808)	739412	50.0000	49.44
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	324810	1000.00	1114.71
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	792097	1000.00	1021.08
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	373105	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	167449	50.0000	44.96
152	Amyl alcohol	42	6.899	6.899	(0.900)	76035	1000.00	983.12
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	29426	50.0000	41.88
159	Propylene oxide	43	1.748	1.748	(0.419)	29877	100.000	87.57
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	87426	1000.00	1130.62
162	Butyl acrylate	55	8.248	8.248	(1.076)	528695	50.0000	51.74
182	Epichlorohydrin	57	6.093	6.093	(1.228)	73945	200.000	201.43
M 94	1,2-Dichloroethylene (total)	96				508306	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	514234	50.0000	51.52
130	Ethyl Acetate	43	3.645	3.645	(0.873)	228453	50.0000	53.96
134	Cyclohexanone	55	8.642	8.642	(0.894)	214909	1000.00	1143.73
185	Isoprene	39	1.767	1.767	(0.423)	72305	50.0000	50.02
186	Isopentane	42	1.606	1.606	(0.385)	124626	50.0000	(a)
188	Isopropyl acetate	43	4.672	4.672	(0.942)	662335	50.0000	52.01

187 n-Amyl acetate	43	8.451	8.451 (1.102)	456030	50.0000	50.00
189 n-Butyl acetate	43	7.210	7.210 (0.940)	375429	50.0000	55.87

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	239774	1000.00	1202.38
194 Acetaldehyde	44	1.208	1.208	(0.290)	74310	200.000	218.10
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	527444	50.0000	50.72
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	524024	50.0000	49.50
168 1-Propanol	59	2.997	2.997	(0.718)	78831	1000.00	889.08

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\voa6.i\X230126.b\X012629.D
Date : 26-JAN-2023 18:12
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

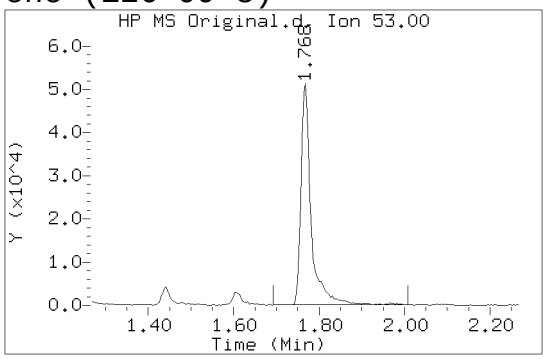
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012629.D
Inj Date : 26-JAN-2023 18:12
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
86810
HEIGHT
51169
13-Feb-2023
13:32
linh
pham



AFTER

MASS
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AREA
86810
HEIGHT
51169
13-Feb-2023
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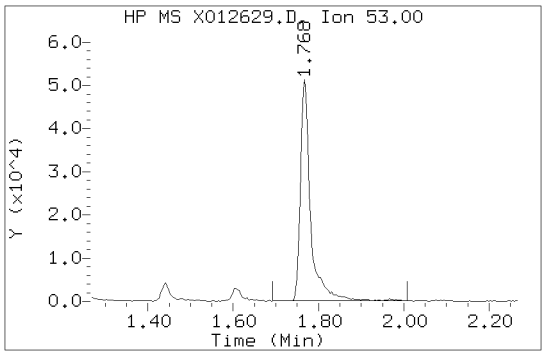

BEFORE

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13-Feb-2023
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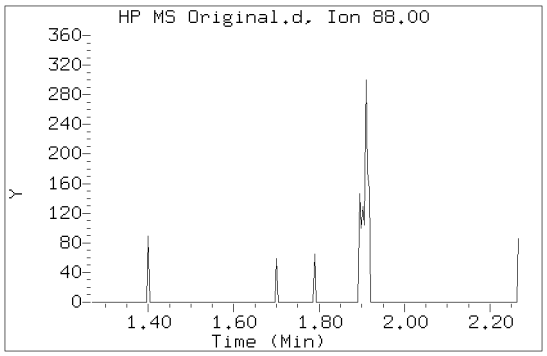

AFTER

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13-Feb-2023
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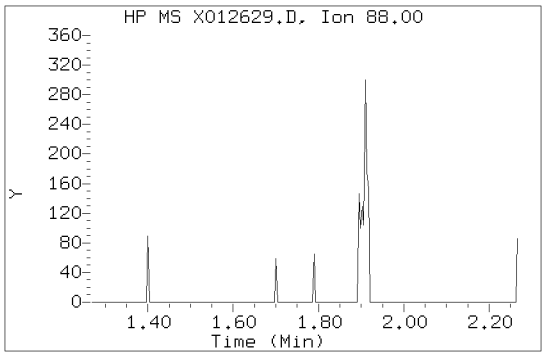


right solutions.
right partner.

Raw Data VOA6 426682

Volatiles by by EPA 8260

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa6.i\X230127.b\X012701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 27-JAN-2023 07:29
Operator : FT Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230127.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	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	
8.687	8.889	(0.000)	95	153088			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	30112			15.00- 40.00	19.67
8.687	8.889	(0.000)	75	75048			30.00- 60.00	49.02
8.687	8.889	(0.000)	96	10336			5.00- 9.00	6.75
8.687	8.889	(0.000)	173	1311			0.00- 2.00	1.02
8.687	8.889	(0.000)	174	128704			50.00- 0.00	84.07
8.687	8.889	(0.000)	175	10189			5.00- 9.00	7.92
8.687	8.889	(0.000)	176	122336			95.00- 101.00	95.05
8.687	8.889	(0.000)	177	8185			5.00- 9.00	6.69

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.67
75	30.00 - 60.00% of mass 95	49.02
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.86 (1.02)
174	Greater than 50.00% of mass 95	84.07
175	5.00 - 9.00% of mass 174	6.66 (7.92)
176	95.00 - 101.00% of mass 174	79.91 (95.05)
177	5.00 - 9.00% of mass 176	5.35 (6.69)

Data File: X012701.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1340	65.90	73	98.00	633	141.90	159
37.00	7304	66.90	594	102.90	160	142.80	1450
38.00	6490	68.00	15356	103.90	719	143.80	85
39.10	2859	69.00	16166	104.80	319	144.80	76
40.00	1607	70.00	1721	105.90	544	145.80	204
41.00	1042	71.10	255	106.70	166	146.90	93
42.10	962	71.80	797	108.80	76	147.80	348
42.90	701	73.00	6596	109.80	79	148.70	98
44.00	1773	74.00	24856	110.60	115	149.20	86
45.00	1850	75.00	75048	111.10	110	149.80	217
45.90	90	76.00	7059	111.80	126	152.80	91
46.90	1302	76.90	1075	112.90	135	153.70	90
48.10	983	77.90	602	115.00	112	154.80	404
49.00	6074	78.90	4663	115.80	540	156.90	289
50.00	30112	79.90	1316	116.90	1085	158.70	276
51.00	9073	81.00	4744	118.00	400	160.70	186
52.10	567	81.80	978	119.00	680	171.40	60
53.00	159	82.90	369	122.70	56	173.00	1311
53.80	193	84.10	56	123.80	110	173.90	128704
55.00	1936	84.90	144	126.90	128	174.90	10189
55.90	3048	85.90	142	127.90	769	175.90	122336
57.00	4384	86.90	5745	128.70	369	176.90	8185
58.10	454	87.90	5218	129.90	427	177.80	203
59.90	991	90.80	765	130.80	354	185.80	264
61.00	7694	91.90	4514	134.70	185	206.90	112
62.00	6944	93.00	6857	136.90	356	261.80	81
63.00	4986	94.00	17624	138.90	94		
64.00	570	95.00	153088	139.70	107		
64.90	174	96.00	10336	140.80	1490		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012701.D

Date : 27-JAN-2023 07:29

Client ID: BFB

Instrument: voa6.i

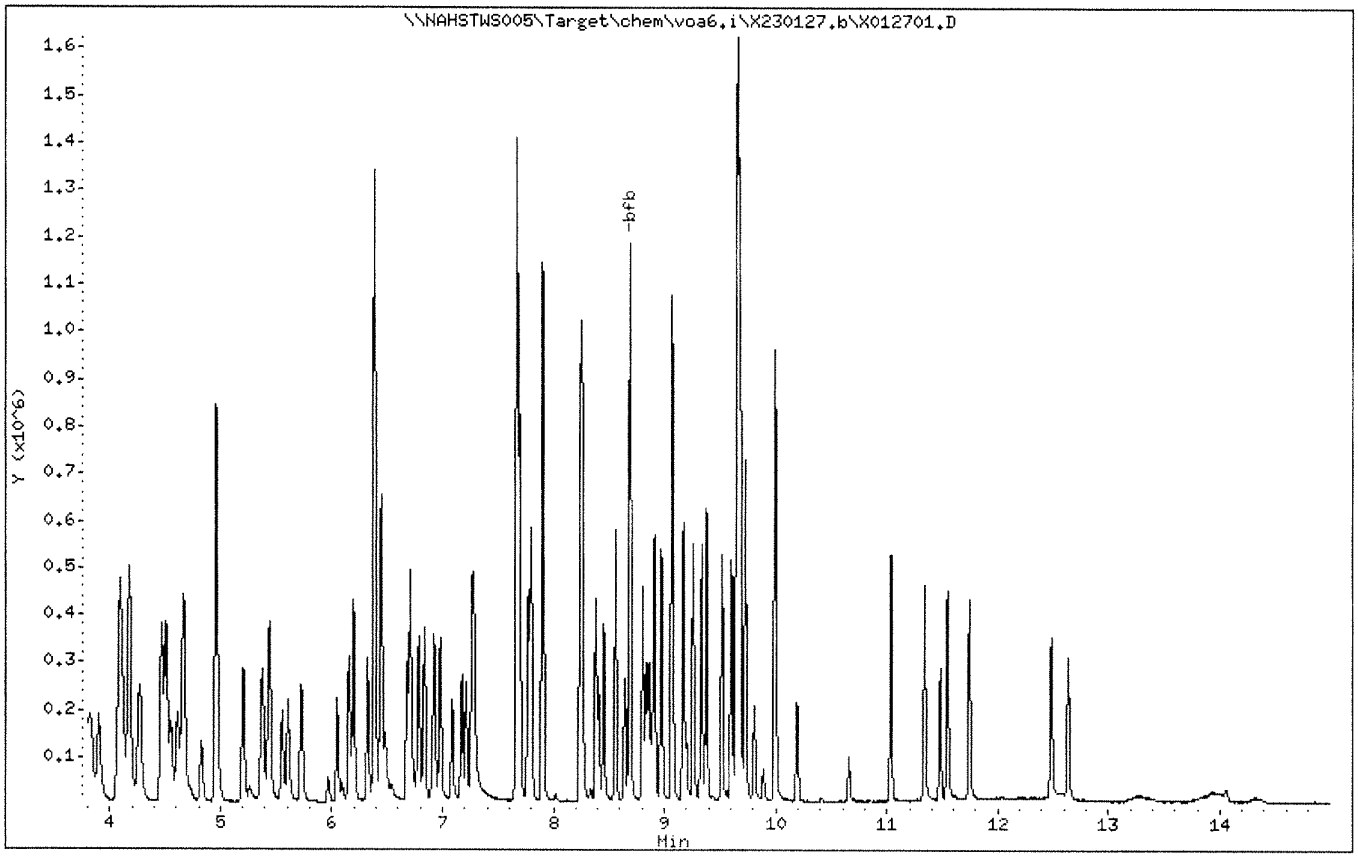
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012701.D

Date : 27-JAN-2023 07:29

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

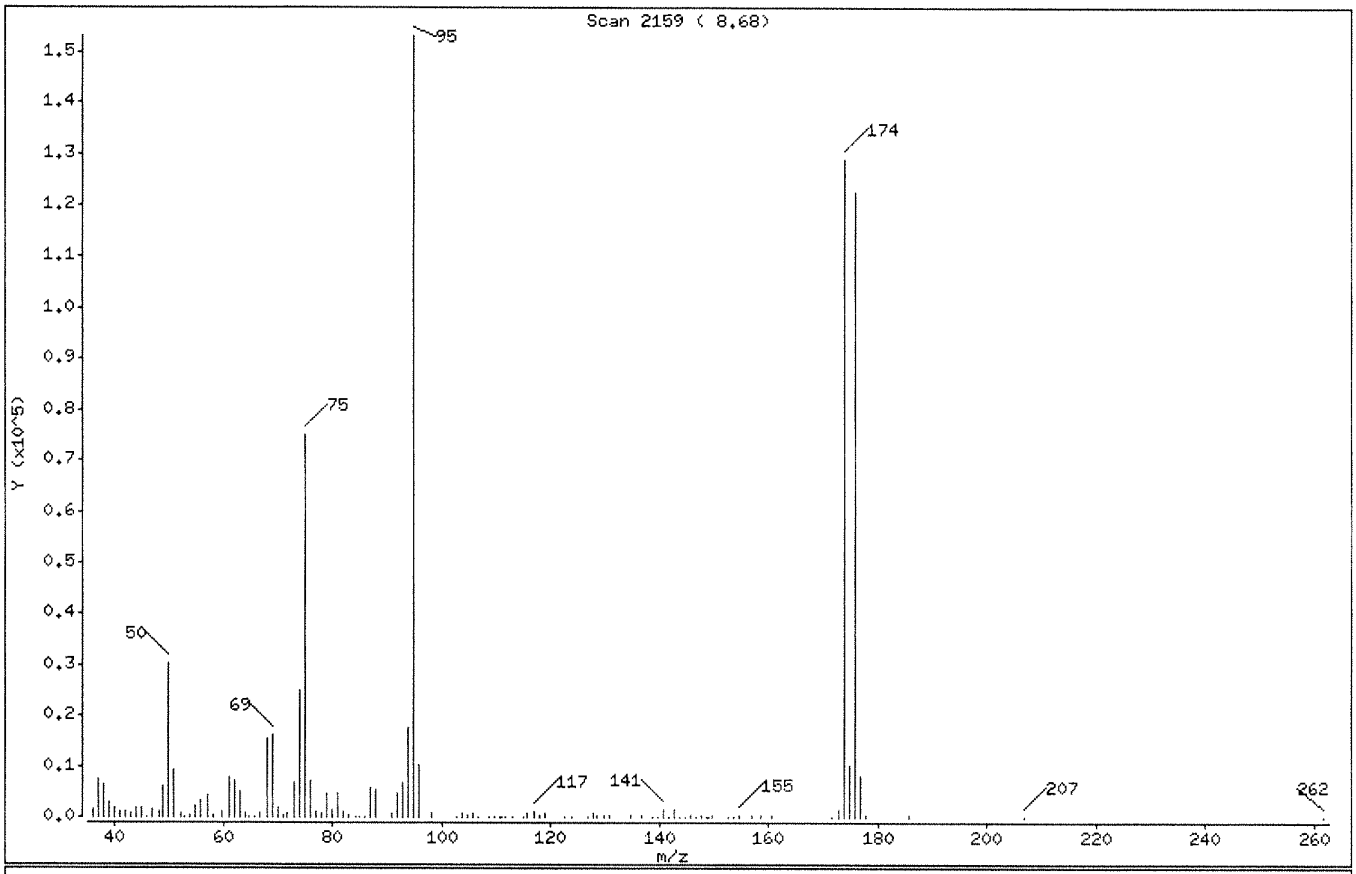
Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.67
75	30.00 - 60.00% of mass 95	49.02
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.86 (1.02)
174	Greater than 50.00% of mass 95	84.07
175	5.00 - 9.00% of mass 174	6.66 (7.92)
176	95.00 - 101.00% of mass 174	79.91 (95.05)
177	5.00 - 9.00% of mass 176	5.35 (6.69)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012701.D

Date : 27-JAN-2023 07:29

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25

Data File: X012701.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1340	65.90	73	98.00	633	141.90	159
37.00	7304	66.90	594	102.90	160	142.80	1450
38.00	6490	68.00	15356	103.90	719	143.80	85
39.10	2859	69.00	16166	104.80	319	144.80	76
40.00	1607	70.00	1721	105.90	544	145.80	204
41.00	1042	71.10	255	106.70	166	146.90	93
42.10	962	71.80	797	108.80	76	147.80	348
42.90	701	73.00	6596	109.80	79	148.70	98
44.00	1773	74.00	24856	110.60	115	149.20	86
45.00	1850	75.00	75048	111.10	110	149.80	217
45.90	90	76.00	7059	111.80	126	152.80	91
46.90	1302	76.90	1075	112.90	135	153.70	90
48.10	983	77.90	602	115.00	112	154.80	404
49.00	6074	78.90	4663	115.80	540	156.90	289
50.00	30112	79.90	1316	116.90	1085	158.70	276
51.00	9073	81.00	4744	118.00	400	160.70	186
52.10	567	81.80	978	119.00	680	171.40	60
53.00	159	82.90	369	122.70	56	173.00	1311
53.80	193	84.10	56	123.80	110	173.90	128704
55.00	1936	84.90	144	126.90	128	174.90	10189
55.90	3048	85.90	142	127.90	769	175.90	122336
57.00	4384	86.90	5745	128.70	369	176.90	8185
58.10	454	87.90	5218	129.90	427	177.80	203
59.90	991	90.80	765	130.80	354	185.80	264
61.00	7694	91.90	4514	134.70	185	206.90	112
62.00	6944	93.00	6857	136.90	356	261.80	81
63.00	4986	94.00	17624	138.90	94		
64.00	570	95.00	153088	139.70	107		
64.90	174	96.00	10336	140.80	1490		

Data File : \\nahstws005\Target\chem\voa6.i\X230127.b\X012701.D
Inj Date : 27-JAN-2023 07:29
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012702.D Page 1
Report Date: 13-Feb-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012702.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-JAN-2023 07:50
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	574580	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	172959	50.0000	43.09
3 Chloromethane	50	1.074	1.074	(0.257)	224682	50.0000	43.51
4 Propionitrile	54	3.642	3.642	(0.872)	282706	500.000	482.20
5 Vinyl Chloride	62	1.137	1.137	(0.273)	228701	50.0000	45.56
6 Bromomethane	94	1.336	1.336	(0.320)	173237	50.0000	45.78
7 Chloroethane	64	1.400	1.400	(0.335)	156083	50.0000	44.67
8 Trichlorofluoromethane	101	1.554	1.554	(0.372)	357653	50.0000	50.91
9 Acrolein	56	1.441	1.441	(0.345)	36882	100.000	94.03
10 Acetone	43	1.966	1.966	(0.471)	145512	100.000	90.25
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	208338	50.0000	47.77
12 Isobutyl Alcohol	43	4.669	4.669	(1.119)	681738	1000.00	1054.87
13 Acetonitrile	39	2.191	2.191	(0.525)	284168	500.000	543.40
14 Allyl Chloride	41	2.195	2.195	(0.526)	504682	50.0000	50.67
15 Iodomethane	142	2.022	2.022	(0.485)	503536	100.000	88.45
16 Acrylonitrile	53	2.528	2.528	(0.606)	152407	100.000	103.04
17 Methylene Chloride	84	2.300	2.300	(0.551)	268612	50.0000	44.90
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	690473	50.0000	48.37
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1178666	100.000	103.30
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	245316	50.0000	50.26

21 Vinyl Acetate	43	2.993	2.993 (0.717)	1324183	100.000	105.68
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	427378	50.0000	49.89

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Report Date: 13-Feb-2023 13:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	89232	50.0000	45.67(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	162780	100.000	95.33
	25 Methacrylonitrile	41	3.814	3.814	(0.914)	197759	50.0000	48.60(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.839)	408531	50.0000	56.17
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	287055	50.0000	48.32
	28 Chloroform	83	3.900	3.900	(0.934)	482149	50.0000	50.22
	29 Bromochloromethane	128	3.788	3.788	(0.908)	149700	50.0000	46.03
$	30 Dibromofluoromethane	113	4.091	4.091	(0.980)	273523	50.0000	49.57
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	417739	50.0000	54.84
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	351132	50.0000	57.60
	33 1,2-Dichloroethane	62	4.549	4.549	(0.917)	378096	50.0000	53.74
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	355340	50.0000	54.58
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	315007	50.0000	54.07
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	858623	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	1011509	50.0000	49.33
	38 Trichloroethene	130	5.201	5.201	(1.048)	296756	50.0000	51.02
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	377566	50.0000	49.06
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	205681	50.0000	52.49
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	236276	100.000	107.92
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	259966	50.0000	47.66
	43 2-Nitropropane	43	5.966	5.966	(1.429)	77027	50.0000	53.08
	44 Dibromomethane	93	5.550	5.550	(1.119)	175807	50.0000	47.42
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	436697	100.000	99.74
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	461805	50.0000	51.10
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	819089	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	985304	50.0000	48.68
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	200237	50.0000	49.52
	50 Toluene	91	6.446	6.446	(0.841)	1124390	50.0000	49.66
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	400285	50.0000	53.37
	52 2-Hexanone	43	7.083	7.083	(0.924)	308701	100.000	103.63
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	211717	50.0000	46.61
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	433656	50.0000	48.50
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	320750	50.0000	48.92
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	256867	50.0000	54.83
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	276284	50.0000	48.65
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	244745	50.0000	58.98(M)
	59 Chlorobenzene	112	7.690	7.690	(1.003)	777986	50.0000	48.44
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	296305	50.0000	49.58
	61 Ethylbenzene	106	7.799	7.799	(1.017)	401130	50.0000	53.02
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1005601	100.000	103.12
	63 o-Xylene	106	8.241	8.241	(1.075)	481373	50.0000	50.01
	64 Styrene	104	8.256	8.256	(1.077)	831295	50.0000	51.53
	66 Bromoform	173	8.410	8.410	(1.097)	219464	50.0000	48.32
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1253834	50.0000	57.02
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	339020	50.0000	46.33
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	386957	50.0000	51.14
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	459092	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	261359	50.0000	51.16(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	92894	50.0000	52.53
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1489909	50.0000	58.58
	74 Bromobenzene	156	8.803	8.803	(0.911)	369688	50.0000	49.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1076698	50.0000	57.31

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	897459	50.0000	53.78
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	1047348	50.0000	55.05

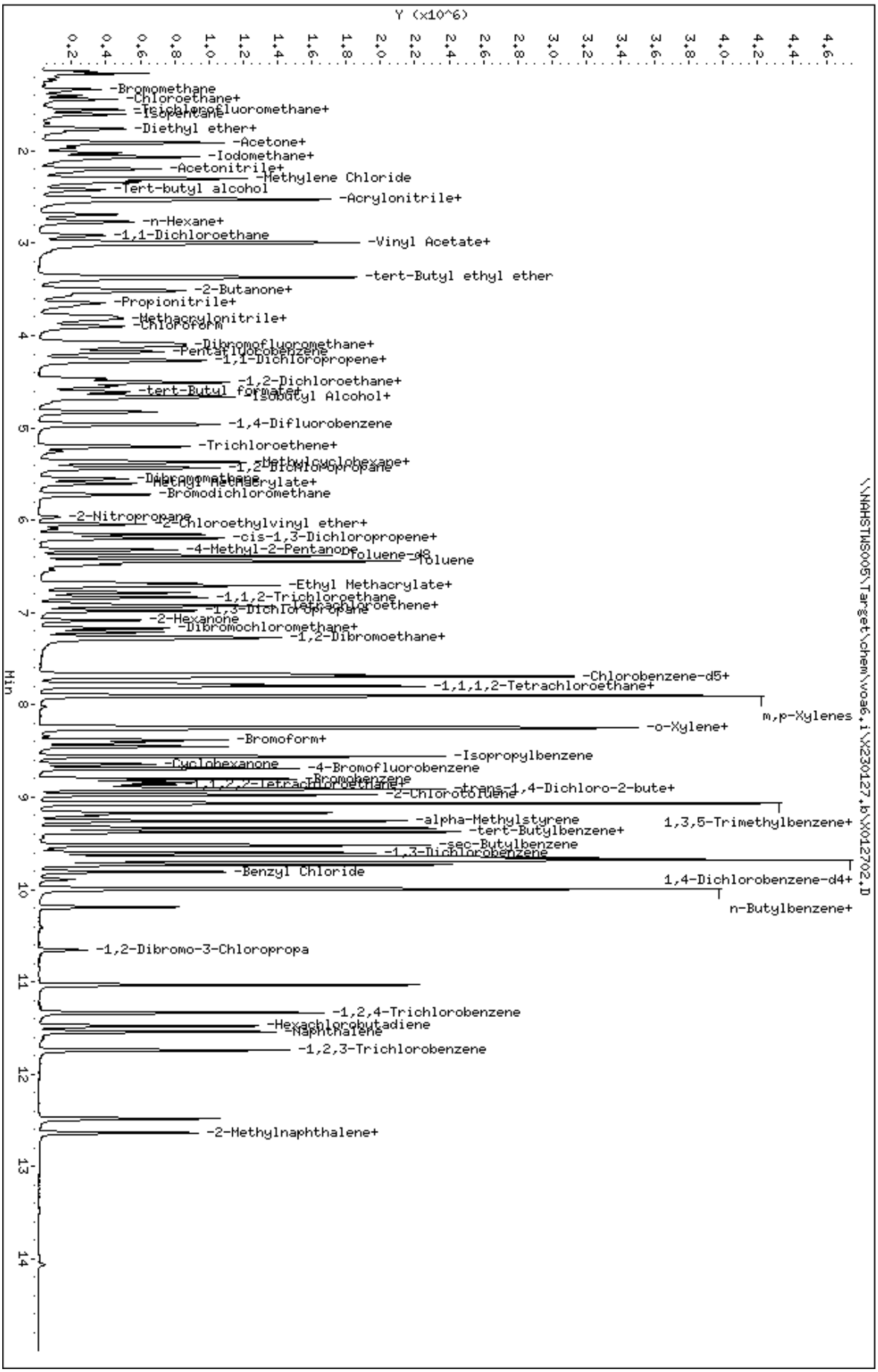
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	904008	50.0000	58.78
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1087814	50.0000	55.03
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1276197	50.0000	62.37
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1134454	50.0000	61.87
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	650779	50.0000	52.05
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	681578	50.0000	49.96
86	Benzyl Chloride	91	9.808	9.808	(1.279)	624900	50.0000	48.81
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1023122	50.0000	57.62
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	633669	50.0000	49.21
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	56259	50.0000	48.09
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	458537	50.0000	56.43
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	216021	50.0000	59.85
92	Naphthalene	128	11.540	11.540	(1.194)	936009	50.0000	50.62
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	406689	50.0000	52.25
146	Methyl acetate	43	2.225	2.225	(0.533)	132660	50.0000	51.30
138	Freon TF	101	1.910	1.910	(0.458)	222192	50.0000	52.67
141	Cyclohexane	56	4.118	4.118	(0.987)	348920	50.0000	59.98
142	Tetrahydrofuran	42	3.836	3.836	(0.919)	68612	100.000	95.93
147	Methylcyclohexane	55	5.373	5.373	(1.083)	602668	50.0000	57.34
135	1,4-Dioxane	88	5.595	5.595	(1.340)	55180	1000.00	1050.59
132	n-Butanol	56	5.253	5.253	(1.259)	76561	1000.00	1038.11
131	Methyl Acrylate	55	3.679	3.679	(0.881)	217730	50.0000	55.81
133	Ethyl Acrylate	55	5.373	5.373	(1.287)	602668	50.0000	53.40
136	n-Hexane	57	2.768	2.768	(0.663)	268561	50.0000	64.91
139	Diethyl ether	59	1.752	1.752	(0.420)	163314	50.0000	42.53
148	Tert-butyl alcohol	59	2.419	2.419	(0.580)	436762	1000.00	1097.78
149	Isopropyl alcohol	45	2.086	2.086	(0.500)	239178	1000.00	1151.10
156	Diisopropyl ether	45	2.993	2.993	(0.717)	727650	50.0000	48.81
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	384020	50.0000	43.11
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1102632	50.0000	49.87
167	Ethanol	45	1.696	1.696	(0.406)	38965	1000.00	1041.12
172	tert-Butyl formate	59	4.609	4.609	(1.104)	337298	100.000	110.62
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	391323	1000.00	1009.75
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	796624	50.0000	48.09
175	tert-Butyl ethyl ether	59	3.368	3.368	(0.807)	772341	50.0000	48.76
176	tert-Amyl alcohol	59	4.609	4.609	(1.104)	337298	1000.00	1093.03
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	824848	1000.00	1014.98
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	384020	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	179614	50.0000	45.54
152	Amyl alcohol	42	6.899	6.899	(0.900)	84934	1000.00	1048.60
158	Dichlorofluoromethane	67	1.524	1.524	(0.365)	31350	50.0000	42.13
159	Propylene oxide	43	1.752	1.752	(0.420)	30937	100.000	85.62
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	89757	1000.00	1108.36
162	Butyl acrylate	55	8.249	8.249	(1.076)	547923	50.0000	51.20
182	Epichlorohydrin	57	6.089	6.089	(1.227)	76450	200.000	198.82
M 94	1,2-Dichloroethylene (total)	96				532371	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	510922	50.0000	50.22
130	Ethyl Acetate	43	3.649	3.649	(0.874)	233184	50.0000	52.00
134	Cyclohexanone	55	8.642	8.642	(0.894)	219146	1000.00	1144.33
185	Isoprene	39	1.763	1.763	(0.423)	81193	50.0000	53.04
186	Isopentane	42	1.606	1.606	(0.385)	138247	50.0000	(a)
188	Isopropyl acetate	43	4.669	4.669	(0.941)	684403	50.0000	51.30

187 n-Amyl acetate	43	8.451	8.451 (1.102)	470486	50.0000	49.25
189 n-Butyl acetate	43	7.210	7.210 (0.940)	383645	50.0000	54.52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	268561	1000.00	1271.65
194 Acetaldehyde	44	1.209	1.209	(0.290)	68241	200.000	186.03
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	527428	50.0000	48.43
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	546137	50.0000	49.26
168 1-Propanol	59	2.989	2.989	(0.716)	82374	1000.00	877.24

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Inj Date : 27-JAN-2023 07:50
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LabSampID : CCV

1-Chlorohexane (544-10-5)

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09-Feb-2023
15:36
Kori
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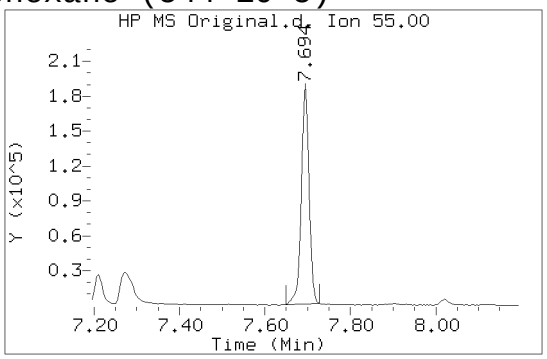

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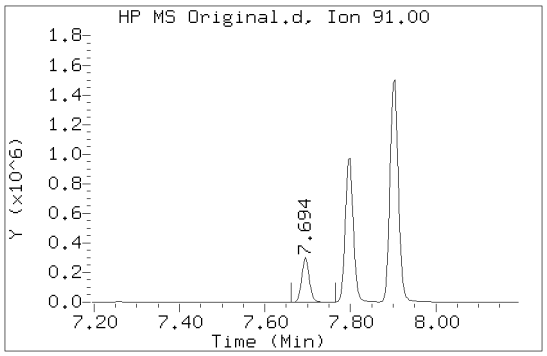

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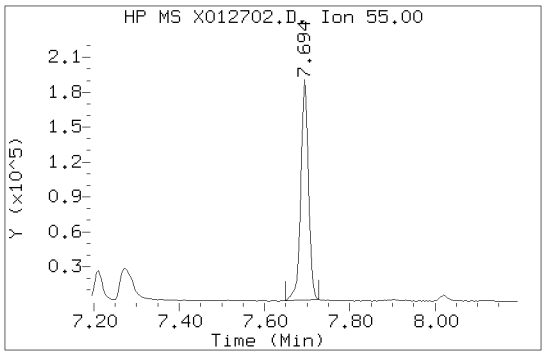

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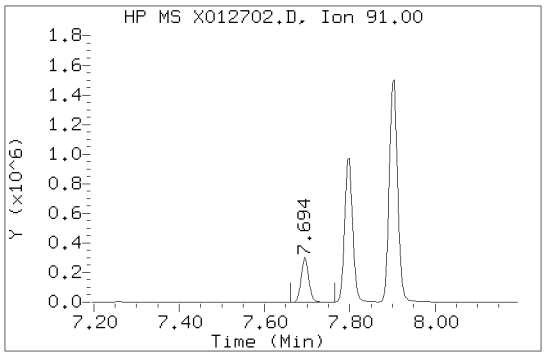

1,2,3-Trichloropropane (96-18-4)

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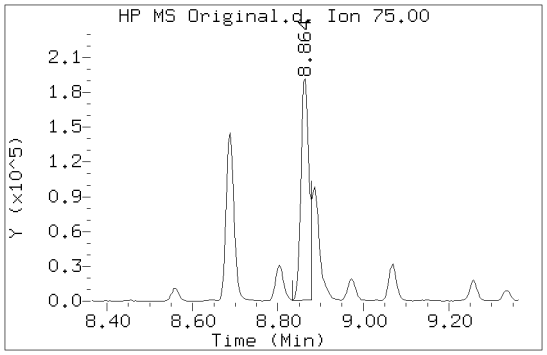

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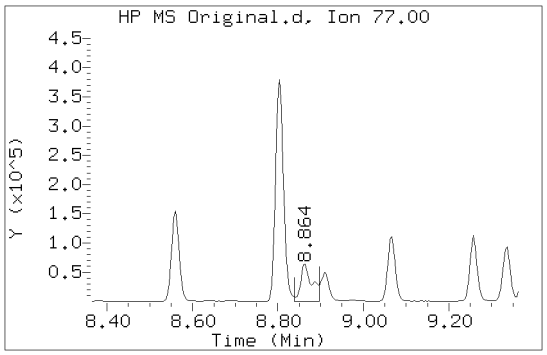

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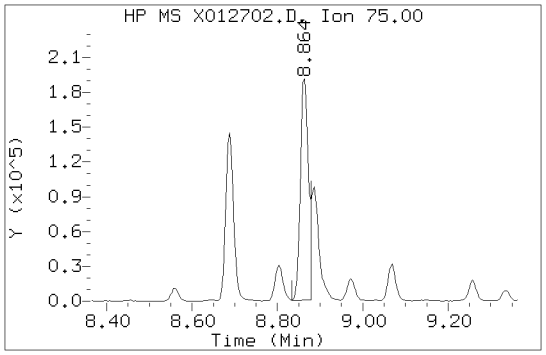

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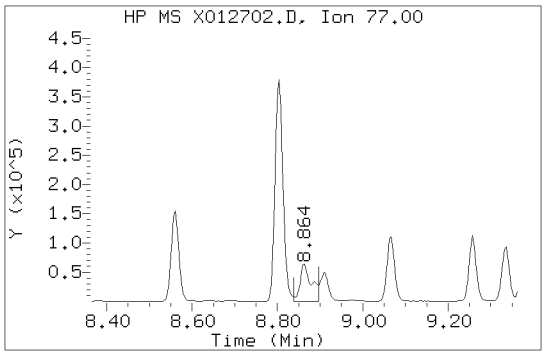

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Chloroprene (126-99-8)

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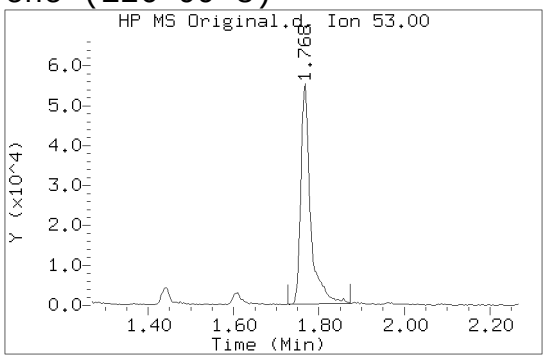

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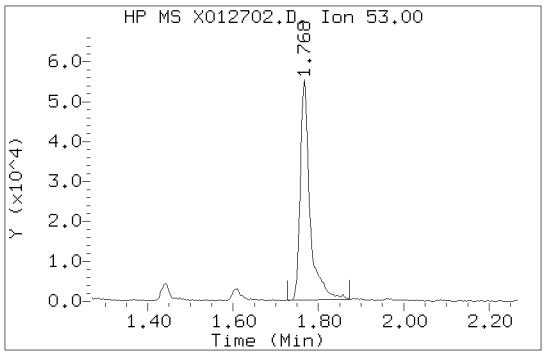

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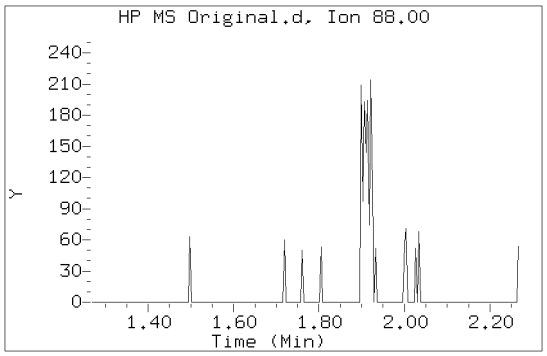

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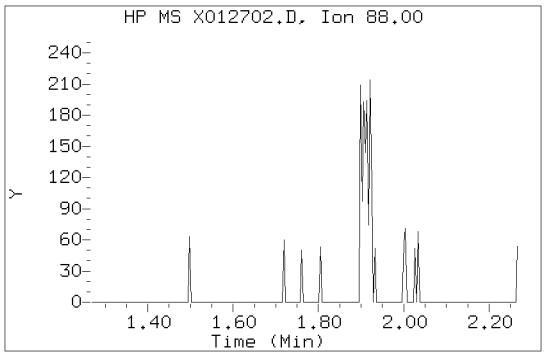

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Report Date: 14-Feb-2023 11:45

ALS Laboratory Group

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Inj Date : 27-JAN-2023 08:53
Operator : FT Inst ID: voa6.i
Smp Info : VLCSW-230127;VLCSW-230176;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:50 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	559520	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	71258	18.4588	18.45
3 Chloromethane	50	1.074	1.074	(0.257)	95070	20.1609	20.16
4 Propionitrile	54	3.649	3.645	(0.873)	121916	213.546	213.54(a)
5 Vinyl Chloride	62	1.137	1.141	(0.272)	93768	19.1844	19.18
6 Bromomethane	94	1.336	1.336	(0.320)	68581	19.6608	19.66
7 Chloroethane	64	1.400	1.400	(0.335)	61244	18.0023	18.00
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	147395	21.5494	21.54
9 Acrolein	56	1.441	1.441	(0.345)	13654	37.4971	37.49
10 Acetone	43	1.966	1.966	(0.471)	62897	40.0422	40.04
11 1,1-Dichloroethene	96	1.910	1.909	(0.457)	86822	20.4455	20.44
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	291752	463.587	463.58(a)
13 Acetonitrile	39	2.194	2.194	(0.525)	124402	244.293	244.29(a)
14 Allyl Chloride	41	2.194	2.194	(0.525)	221209	22.8081	22.80(a)
15 Iodomethane	142	2.022	2.022	(0.484)	205445	39.7418	39.74
16 Acrylonitrile	53	2.532	2.528	(0.606)	67134	46.6129	46.61
17 Methylene Chloride	84	2.299	2.299	(0.550)	116852	20.0610	20.06
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	305871	22.0056	22.00
19 Carbon Disulfide	76	2.063	2.067	(0.494)	482080	43.3900	43.38
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	101580	21.3735	21.37

21 Vinyl Acetate	43	2.993	2.993 (0.716)	557582	45.6973	45.69
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	175007	20.9818	20.98

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.771	1.767	(0.424)	36616	19.2469	19.24(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	66676	41.8529	41.85
	25 Methacrylonitrile	41	3.818	3.814	(0.914)	85787	21.6531	21.65(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	166144	23.4604	23.46
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	116730	20.1821	20.18
	28 Chloroform	83	3.904	3.900	(0.935)	200191	21.4140	21.41
	29 Bromochloromethane	128	3.795	3.791	(0.908)	62347	19.6878	19.68
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	265871	49.4857	49.48
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	173731	23.4225	23.42
	32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	145272	24.6274	24.62
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	157919	23.1973	23.19
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	145154	23.0437	23.04
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	320690	56.5177	56.51
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	830877	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	419094	21.1225	21.12
	38 Trichloroethene	130	5.205	5.205	(1.048)	123594	21.9622	21.96
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	154654	20.7694	20.76
	40 Methyl Methacrylate	41	5.606	5.602	(1.342)	88133	23.1010	23.10(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	97244	45.9040	45.90
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	107530	20.3738	20.37
	43 2-Nitropropane	43	5.969	5.965	(1.429)	33242	23.5271	23.52
	44 Dibromomethane	93	5.549	5.549	(1.118)	74023	20.6344	20.63
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	193526	45.9713	45.97
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	187057	21.3902	21.39
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	787598	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	965112	49.5893	49.58
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	91967	23.5050	23.50(a)
	50 Toluene	91	6.445	6.445	(0.841)	467271	21.4645	21.46
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	161219	22.2147	22.21
	52 2-Hexanone	43	7.086	7.083	(0.924)	132175	46.1481	46.14
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	87588	20.0553	20.05
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	179265	20.8537	20.85
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	131480	20.8590	20.85
	56 Tetrachloroethene	164	6.929	6.925	(0.904)	102859	22.8363	22.83
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	116619	21.3570	21.35
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	103019	25.6562	25.65(M)
	59 Chlorobenzene	112	7.694	7.690	(1.003)	315040	20.4029	20.40
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	119792	20.8467	20.84
	61 Ethylbenzene	106	7.799	7.795	(1.017)	164775	22.6542	22.65
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	412242	43.9661	43.96
	63 o-Xylene	106	8.241	8.241	(1.075)	197481	21.3392	21.33
	64 Styrene	104	8.256	8.256	(1.077)	336010	21.6620	21.66
	66 Bromoform	173	8.410	8.410	(1.097)	88588	20.2867	20.28
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	509532	24.0995	24.09
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	142458	20.2504	20.25
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	373310	51.3148	51.31
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	441371	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	111214	22.6451	22.64(M)
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	37068	21.8018	21.80(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	602561	24.6466	24.64
	74 Bromobenzene	156	8.803	8.803	(0.911)	147985	20.4361	20.43
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	435141	24.0935	24.09

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	367769	22.9239	22.92
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	428232	23.4149	23.41

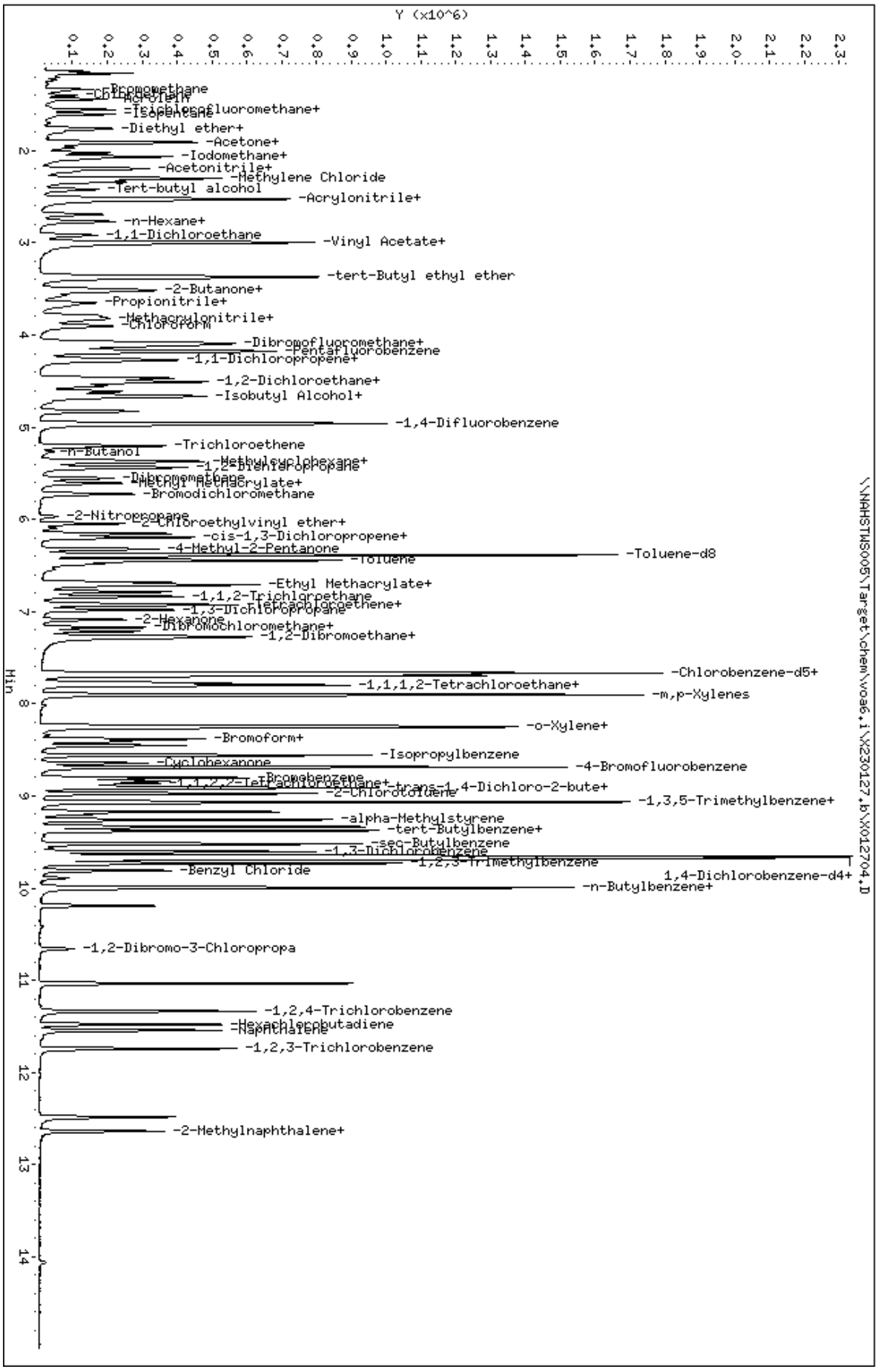
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	368773	24.9445	24.94
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	439792	23.1428	23.14
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	516621	26.2640	26.26
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	458894	26.0344	26.03
83	1,3-Dichlorobenzene	146	9.606	9.605	(0.994)	263971	21.9628	21.96
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	280076	21.3546	21.35
86	Benzyl Chloride	91	9.808	9.808	(1.279)	227712	20.1735	20.17
87	n-Butylbenzene	91	9.992	9.992	(1.034)	406242	24.8405	24.84
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	260451	21.0410	21.04
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	23634	21.0671	21.06
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	178543	22.8556	22.85
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	86284	25.0457	25.04
92	Naphthalene	128	11.544	11.540	(1.195)	377814	21.2569	21.25
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	158677	21.2088	21.20
146	Methyl acetate	43	2.228	2.224	(0.533)	54939	21.8210	21.82
138	Freon TF	101	1.913	1.913	(0.458)	89026	21.6755	21.67
141	Cyclohexane	56	4.118	4.117	(0.986)	135638	24.7043	24.70(M)
142	Tetrahydrofuran	42	3.844	3.836	(0.920)	29941	41.2413	41.24
147	Methylcyclohexane	55	5.377	5.373	(1.083)	260564	25.6193	25.61
135	1,4-Dioxane	88	5.598	5.598	(1.340)	23831	465.941	465.94
132	n-Butanol	56	5.261	5.253	(1.259)	25453	392.671	392.67(a)
131	Methyl Acrylate	55	3.686	3.683	(0.882)	88331	23.2533	23.25
133	Ethyl Acrylate	55	5.377	5.373	(1.287)	260564	24.7279	24.72
136	n-Hexane	57	2.768	2.768	(0.663)	108787	27.0036	27.00
139	Diethyl ether	59	1.752	1.752	(0.419)	67773	18.1279	18.12
148	Tert-butyl alcohol	59	2.423	2.419	(0.580)	191302	493.772	493.77
149	Isopropyl alcohol	45	2.090	2.086	(0.500)	101587	502.074	502.07
156	Diisopropyl ether	45	2.997	2.993	(0.717)	313640	21.6088	21.60
160	2-Methylnaphthalene	142	12.638	12.634	(1.308)	150640	17.5915	17.59
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	472947	22.2519	22.25
167	Ethanol	45	1.696	1.700	(0.406)	16206	442.782	442.78
172	tert-Butyl formate	59	4.612	4.612	(1.104)	176086	59.3085	59.30
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	174855	469.231	469.23
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	351918	21.8198	21.81
175	tert-Butyl ethyl ether	59	3.368	3.371	(0.806)	337116	21.8581	21.85
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	176086	585.974	585.97
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	348012	442.532	442.53
180	1-Methylnaphthalene	142	12.638	12.634	(1.308)	150640		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	74230	19.3303	19.33
152	Amyl alcohol	42	6.903	6.899	(0.900)	31644	406.303	406.30
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	13059	18.0255	18.02
159	Propylene oxide	43	1.752	1.752	(0.419)	13812	39.2553	39.25
161	3-Methyl-1-butanol	55	6.907	6.899	(0.901)	29209	375.108	375.10
162	Butyl acrylate	55	8.252	8.248	(1.076)	229196	22.2775	22.27
182	Epichlorohydrin	57	6.093	6.093	(1.227)	33516	91.4457	91.44
M 94	1,2-Dichloroethylene (total)	96				218310	41.5556	41.55
M 95	Xylenes (total)	106				609723	65.3052	65.30
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	206476	21.1129	21.11
130	Ethyl Acetate	43	3.653	3.645	(0.874)	98369	22.5305	22.53
134	Cyclohexanone	55	8.642	8.642	(0.894)	100380	545.208	545.20
185	Isoprene	39	1.767	1.767	(0.423)	32694	21.9338	21.93
186	Isopentane	42	1.606	1.606	(0.384)	56743		(a)

188 Isopropyl acetate	43	4.672	4.672 (0.941)	293232	22.7157	22.71
187 n-Amyl acetate	43	8.451	8.451 (1.102)	195372	21.2733	21.27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	163191	24.1206	24.12
150 Allyl alcohol	57	2.768	2.768	(0.663)	108787	528.978	528.97
194 Acetaldehyde	44	1.209	1.209	(0.289)	78697	224.604	224.60
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	234273	22.3724	22.37
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	229682	21.5473	21.54
168 1-Propanol	59	2.993	2.997	(0.716)	35537	388.640	388.63

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VLCSW-230176
Sample Info: VLCSW-230127;VLCSW-230176;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

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Inj Date : 27-JAN-2023 08:53
InstruID : voa6.i
LabSampID : VLCSW-230127

1-Chlorohexane (544-10-5)

Reason Code:

BEFORE

MASS
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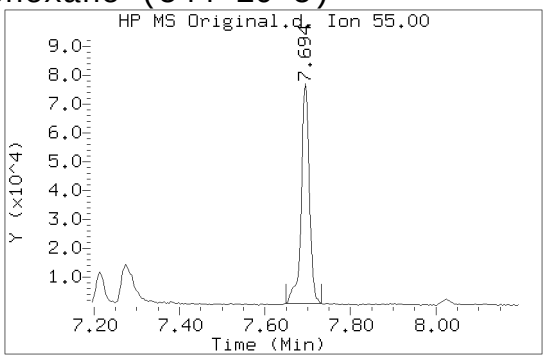
103019
HEIGHT
76220
13-Feb-2023
13:42
linh
pham



AFTER

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14-Feb-2023
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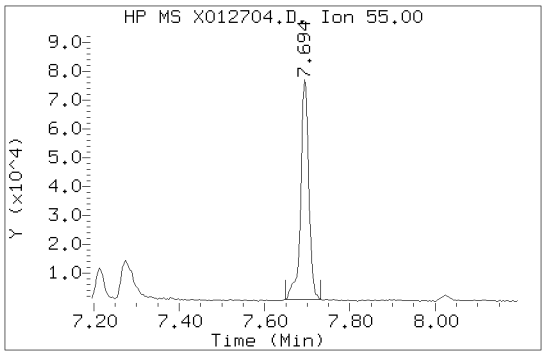

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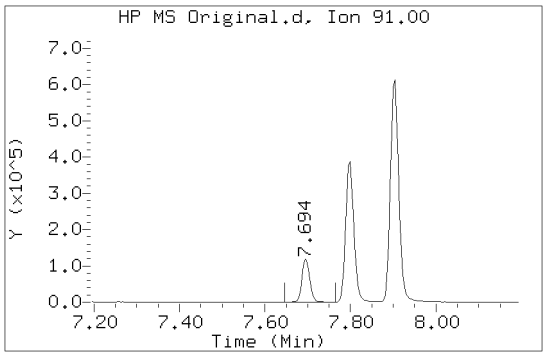

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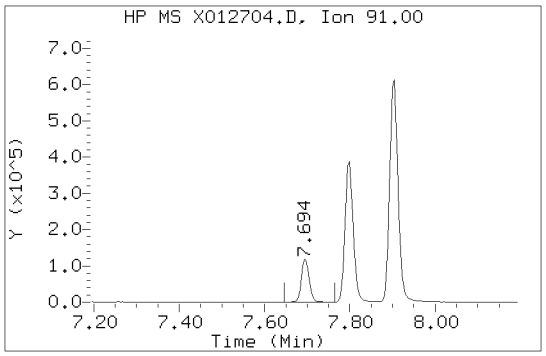

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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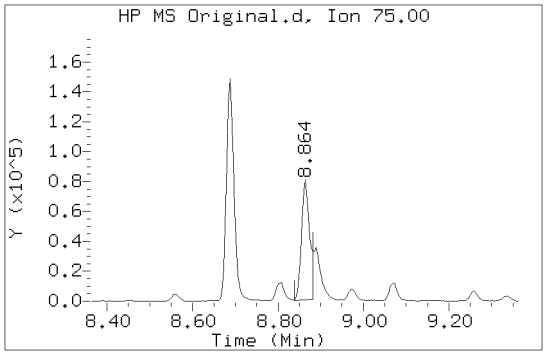

AFTER

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14-Feb-2023
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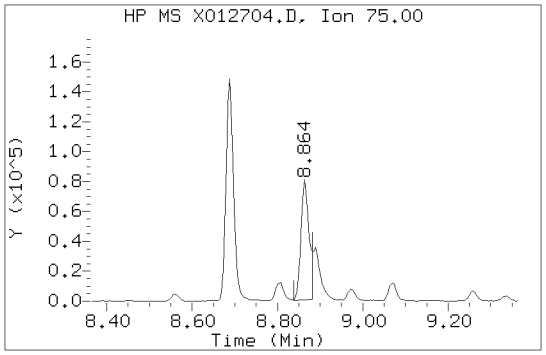

BEFORE

MASS
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13-Feb-2023
13:42
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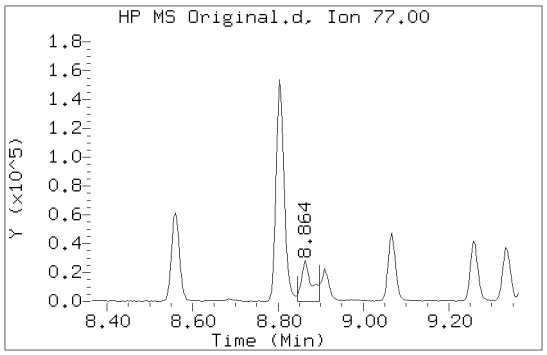

AFTER

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14-Feb-2023
11:45
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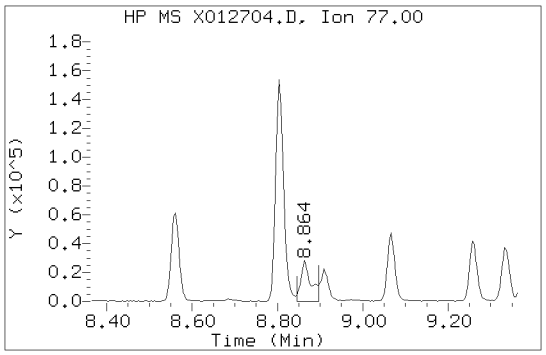

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Inj Date : 27-JAN-2023 08:53
InstruID : voa6.i
LabSampID : VLCSW-230127

Chloroprene (126-99-8)

BEFORE

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AREA
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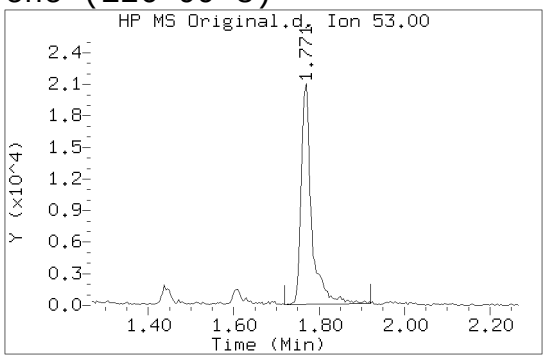
HEIGHT
20969
13-Feb-2023
13:42
linh
pham



BEFORE

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13-Feb-2023
13:42
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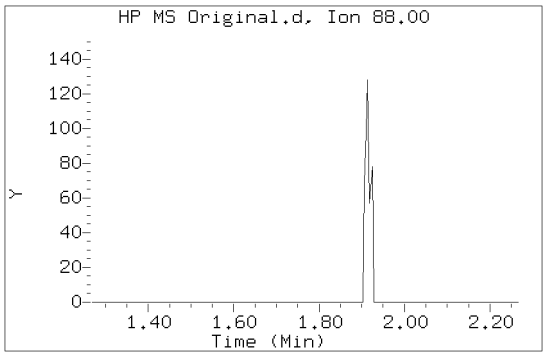

Reason Code:

AFTER

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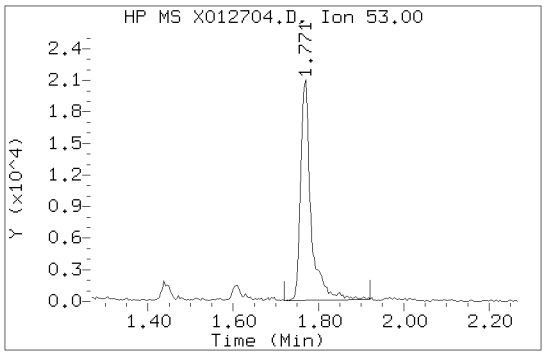

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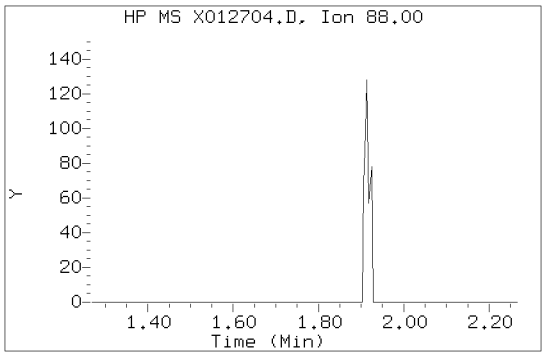

Cyclohexane (110-82-7)

BEFORE

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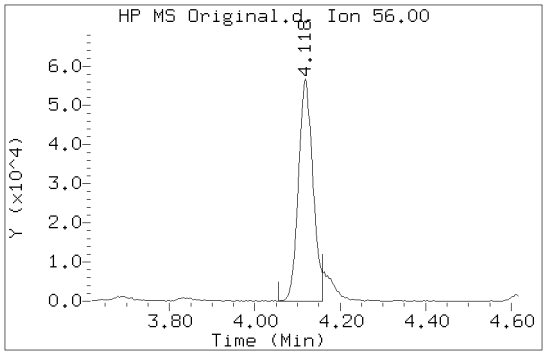

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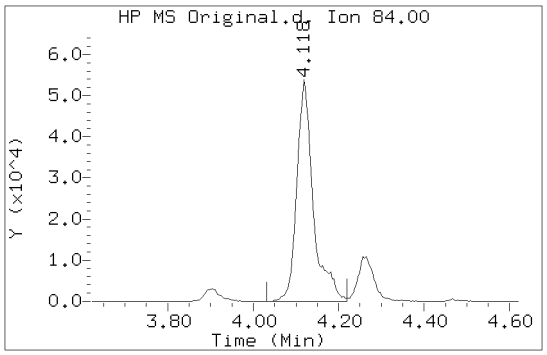

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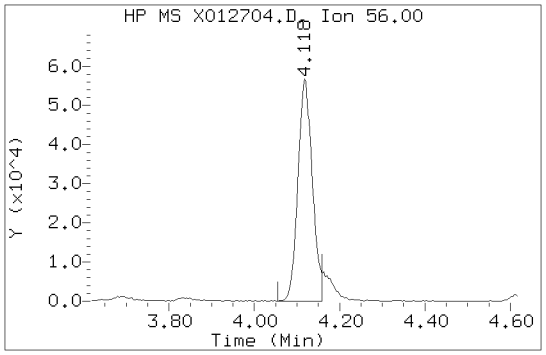

AFTER

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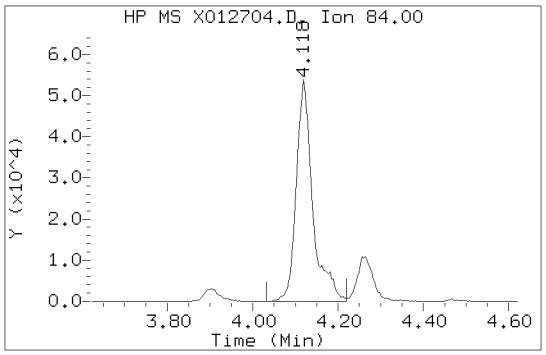

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Inj Date : 27-JAN-2023 08:53
InstruID : voa6.i
LabSampID : VLCSW-230127

Cyclohexane (110-82-7)

Reason Code:

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13-Feb-2023
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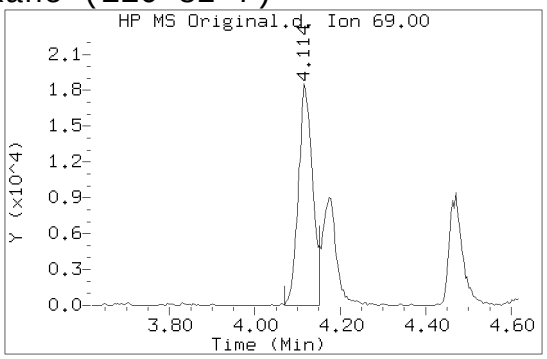

AFTER

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14-Feb-2023
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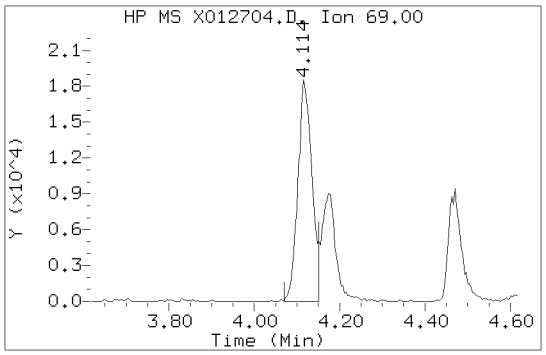


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012706.D Page 1
Report Date: 13-Feb-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012706.D
Lab Smp Id: VBLKW-230127
Inj Date : 27-JAN-2023 09:35
Operator : PC   Inst ID: voa6.i
Smp Info : VBLKW-230127;VBLKW-230127;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i   Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 6   QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

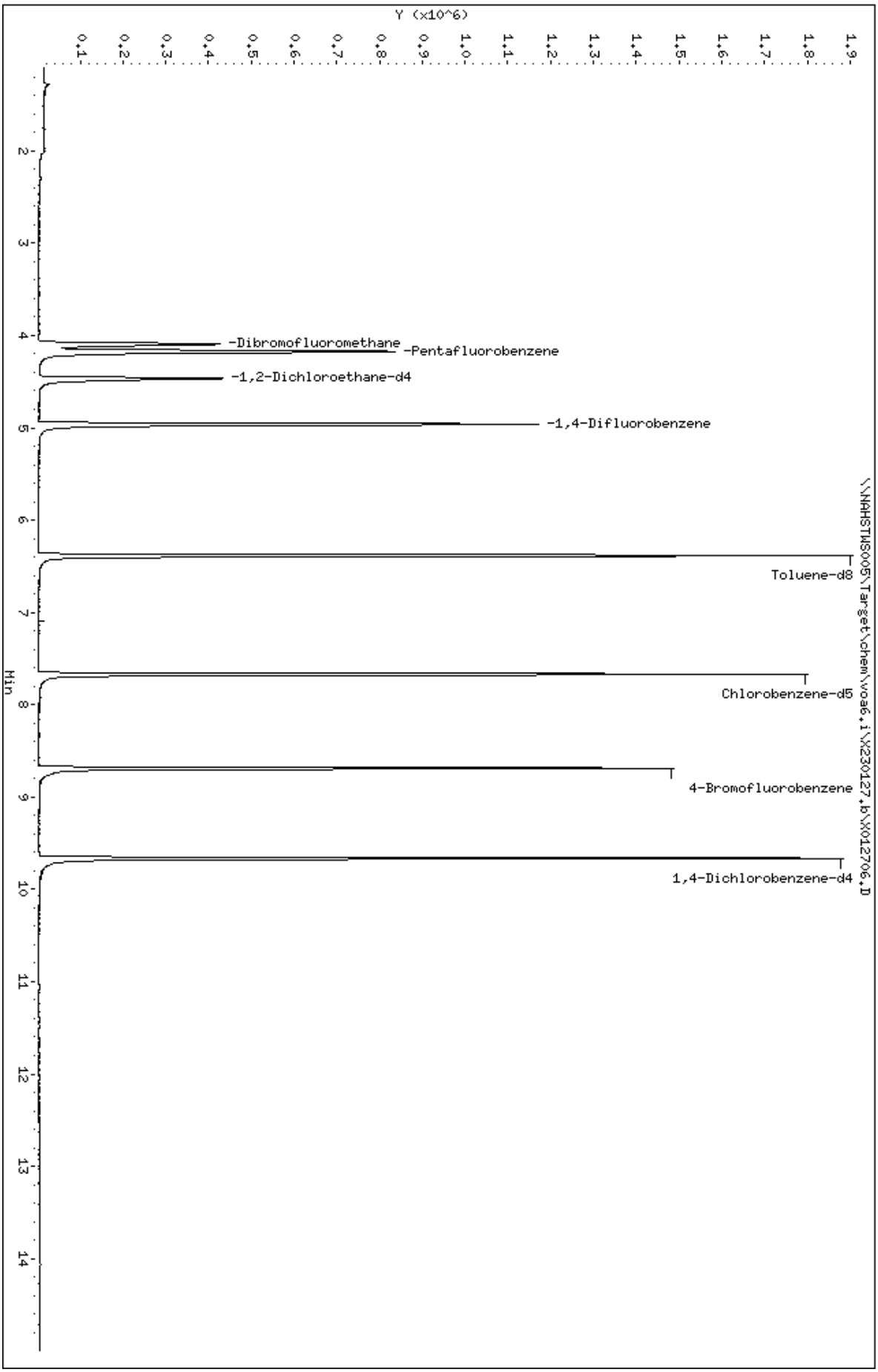
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	682611	50.0000	
$ 30 Dibromofluoromethane	113	4.091	4.091	(0.980)	302222	46.0967	46.09
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	349789	50.5585	50.55
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	969189	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	865426	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1120825	52.4110	52.41
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	413223	51.6926	51.69
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	464238	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012706.D
Date : 27-JAN-2023 09:35
Client ID:
Sample Info: VBLKW-230127;VBLKW-230127;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18



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Inj Date : 27-JAN-2023 09:35
InstruID : voa6.i
LabSampID : VBLKW-230127

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D Page 1
Report Date: 13-Feb-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D
Lab Smp Id: HS23011212-02MS
Inj Date : 27-JAN-2023 10:18
Operator : PC   Inst ID: voa6.i
Smp Info : HS23011212-02MS;HS23011212-02MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i   Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 8   QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.174	4.174	(1.000)	684119	50.0000	
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	64276	13.7207	13.72
3	Chloromethane	50	1.074	1.074	(0.257)	88750	15.9159	15.91(R)
4	Propionitrile	54	3.645	3.642	(0.873)	103634	148.463	148.46(a)
5	Vinyl Chloride	62	1.141	1.137	(0.273)	91236	15.2667	15.26(R)
6	Bromomethane	94	1.336	1.336	(0.320)	64875	15.6104	15.61(R)
7	Chloroethane	64	1.400	1.400	(0.335)	59656	14.3418	14.34(R)
8	Trichlorofluoromethane	101	1.557	1.554	(0.373)	152229	18.2027	18.20
9	Acrolein	56	1.441	1.441	(0.345)	12065	27.8812	27.88
10	Acetone	43	1.970	1.966	(0.472)	47544	24.7422	24.74
11	1,1-Dichloroethene	96	1.910	1.910	(0.458)	86096	16.5819	16.58(R)
12	Isobutyl Alcohol	43	4.672	4.669	(1.119)	251038	326.242	326.24(a)
13	Acetonitrile	39	2.194	2.191	(0.526)	101118	162.404	162.40(a)
14	Allyl Chloride	41	2.194	2.195	(0.526)	181988	15.3466	15.34(a)
15	Iodomethane	142	2.022	2.022	(0.485)	192870	31.3816	31.38
16	Acrylonitrile	53	2.532	2.528	(0.607)	55192	31.3418	31.34
17	Methylene Chloride	84	2.299	2.300	(0.551)	106236	14.9167	14.91(R)
18	Methyl tert-butyl ether	73	2.528	2.528	(0.606)	252474	14.8558	14.85
19	Carbon Disulfide	76	2.063	2.063	(0.494)	464779	34.2137	34.21(R)
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	99248	17.0794	17.07(R)

21 Vinyl Acetate	43	2.993	2.993 (0.717)	418689	28.0645	28.06
22 1,1-Dichloroethane	63	2.914	2.918 (0.698)	169326	16.6033	16.60(R)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D Page 2
Report Date: 13-Feb-2023 13:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	33680	14.4792	14.47(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	58057	30.6762	30.67(R)
	25 Methacrylonitrile	41	3.821	3.814	(0.916)	68129	14.0642	14.06(a)
	26 2,2-Dichloropropane	77	3.506	3.503	(0.840)	120403	13.9050	13.90
	27 cis-1,2-Dichloroethene	96	3.521	3.522	(0.844)	111685	15.7929	15.79(R)
	28 Chloroform	83	3.900	3.900	(0.934)	201976	17.6700	17.67(R)
	29 Bromochloromethane	128	3.791	3.788	(0.908)	56940	14.7056	14.70
$	30 Dibromofluoromethane	113	4.091	4.091	(0.980)	304142	46.2880	46.28(RR)
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	174494	19.2407	19.24(R)
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	141842	20.7469	20.74
	33 1,2-Dichloroethane	62	4.552	4.549	(0.918)	149856	18.9928	18.99(R)
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	148293	20.3122	20.31(R)
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	353528	50.9840	50.98(RR)
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	962994	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	405268	17.6234	17.62(R)
	38 Trichloroethene	130	5.205	5.201	(1.049)	119310	18.2923	18.29(R)
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	145999	16.9171	16.91(R)
	40 Methyl Methacrylate	41	5.606	5.602	(1.343)	69713	14.9448	14.94(a)
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	101828	16.6465	16.64(R)
	43 2-Nitropropane	43	5.966	5.966	(1.429)	26193	15.1618	15.16
	44 Dibromomethane	93	5.550	5.550	(1.119)	69731	16.7712	16.77
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	178485	37.9337	37.93(R)
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	162991	16.0811	16.08(R)
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	880296	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1123194	51.6346	51.63(RR)
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	67994	14.9938	14.99(a)
	50 Toluene	91	6.445	6.446	(0.841)	448879	18.4484	18.44(R)
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	138153	16.4247	16.42(R)
	52 2-Hexanone	43	7.086	7.083	(0.924)	117013	36.5523	36.55(R)
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	81079	16.6100	16.60(R)
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	166022	17.2795	17.27
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	121183	17.2009	17.20(R)
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	99509	19.7662	19.76(R)
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	105535	17.2919	17.29
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	97737	21.0014	21.00
	59 Chlorobenzene	112	7.694	7.690	(1.003)	302409	17.5225	17.52(R)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	112217	17.4721	17.47
	61 Ethylbenzene	106	7.799	7.799	(1.017)	156461	19.2459	19.24(R)
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	391557	37.3625	37.36(R)
	63 o-Xylene	106	8.241	8.241	(1.075)	186095	17.9913	17.99(R)
	64 Styrene	104	8.260	8.256	(1.077)	310961	17.9361	17.93(R)
	66 Bromoform	173	8.410	8.410	(1.097)	80619	16.5177	16.51(R)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	492383	20.8360	20.83
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	131204	16.8680	16.86(R)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	423059	52.0286	52.02(RR)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	488016	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	137320	25.2882	25.28
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	30649	16.1282	16.12(a)
	73 n-Propylbenzene	91	8.912	8.908	(0.922)	572143	21.1656	21.16
	74 Bromobenzene	156	8.803	8.803	(0.911)	140662	17.5682	17.56
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	410854	20.5744	20.57
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	351432	19.8118	19.81

77	4-Chlorotoluene	91	9.069	9.070 (0.939)	396598	19.6125	19.61
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	359902	22.0176	22.01

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D Page 3
Report Date: 13-Feb-2023 13:49

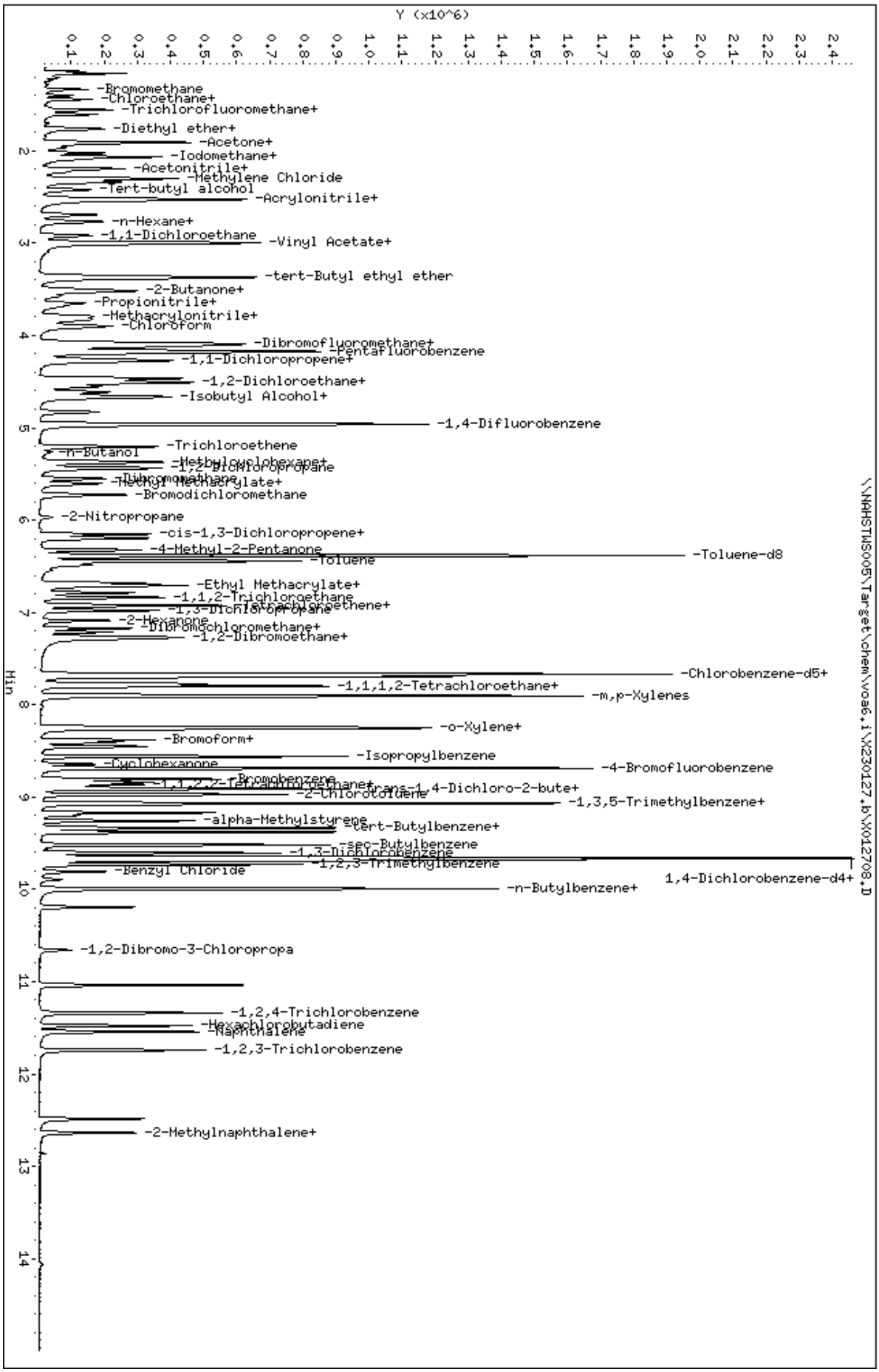
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	410436	19.5337	19.53
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	490204	22.5391	22.53
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	421583	21.6315	21.63
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	247129	18.5962	18.59
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	262051	18.0706	18.07
86	Benzyl Chloride	91	9.808	9.808	(1.279)	121958	11.0695	11.06
87	n-Butylbenzene	91	9.992	9.992	(1.034)	359136	20.2171	20.21
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	244353	17.8537	17.85
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	20762	16.7571	16.75
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	159775	18.4982	18.49
91	Hexachlorobutadiene	225	11.476	11.480	(1.188)	75683	19.8822	19.88
92	Naphthalene	128	11.544	11.540	(1.195)	350828	17.8520	17.85
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	148030	17.8946	17.89
146	Methyl acetate	43	2.228	2.225	(0.534)	44722	14.5278	14.52
138	Freon TF	101	1.910	1.910	(0.458)	89125	17.7474	17.74
141	Cyclohexane	56	4.118	4.118	(0.987)	154447	23.0934	23.09
142	Tetrahydrofuran	42	3.840	3.836	(0.920)	24600	26.6743	26.67
147	Methylcyclohexane	55	5.377	5.373	(1.084)	208481	17.6861	17.68
135	1,4-Dioxane	88	5.598	5.595	(1.341)	21374	341.789	341.78
132	n-Butanol	56	5.265	5.253	(1.261)	23188	303.986	303.98(a)
131	Methyl Acrylate	55	3.686	3.679	(0.883)	72303	15.5672	15.56
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	208481	16.8142	16.81
136	n-Hexane	57	2.768	2.768	(0.663)	92121	18.7020	18.70
139	Diethyl ether	59	1.752	1.752	(0.420)	56678	12.3991	12.39
148	Tert-butyl alcohol	59	2.423	2.419	(0.581)	175495	370.472	370.47
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	94629	382.506	382.50
156	Diisopropyl ether	45	2.993	2.993	(0.717)	256538	14.4556	14.45
160	2-Methylnaphthalene	142	12.638	12.635	(1.308)	129295	13.6557	13.65
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	361099	15.3656	15.36
167	Ethanol	45	1.696	1.696	(0.406)	15461	344.766	344.76
172	tert-Butyl formate	59	4.612	4.609	(1.105)	132566	36.5181	36.51
173	3,3-Dimethyl-1-butanol	57	7.289	7.285	(0.951)	127144	305.267	305.26
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	288151	14.6121	14.61
175	tert-Butyl ethyl ether	59	3.368	3.368	(0.807)	271998	14.4239	14.42
176	tert-Amyl alcohol	59	4.612	4.609	(1.105)	132566	360.803	360.80
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	252534	277.066	277.06
180	1-Methylnaphthalene	142	12.638	12.635	(1.308)	129295		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	70597	15.0359	15.03
152	Amyl alcohol	42	6.910	6.899	(0.901)	25238	289.928	289.92
158	Dichlorofluoromethane	67	1.523	1.524	(0.365)	11823	13.3471	13.34
159	Propylene oxide	43	1.752	1.752	(0.420)	14557	33.8375	33.83
161	3-Methyl-1-butanol	55	6.910	6.899	(0.901)	28290	325.049	325.04
162	Butyl acrylate	55	8.252	8.249	(1.076)	176228	15.3254	15.32
182	Epichlorohydrin	57	6.101	6.089	(1.230)	5468	15.0198	15.01
M 94	1,2-Dichloroethylene (total)	96				210933	32.8723	32.87
M 95	Xylenes (total)	106				577652	55.3538	55.35(R)
145	alpha-Methylstyrene	118	9.261	9.257	(0.958)	112960	10.4466	10.44
130	Ethyl Acetate	43	3.653	3.649	(0.875)	81844	15.3315	15.33
134	Cyclohexanone	55	8.646	8.642	(0.895)	57483	282.374	282.37(a)
185	Isoprene	39	1.767	1.763	(0.423)	26043	14.2896	14.28
186	Isopentane	42	1.606	1.606	(0.385)	43374		(a)
188	Isopropyl acetate	43	4.672	4.669	(0.942)	253597	16.9501	16.95

187 n-Amyl acetate	43	8.451	8.451 (1.102)	154269	15.0289	15.02
189 n-Butyl acetate	43	7.214	7.210 (0.941)	125117	16.5456	16.54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	92121	366.356	366.35
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	171815	14.6800	14.68
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	165496	13.8909	13.89
168 1-Propanol	59	2.993	2.989	(0.717)	30410	271.999	271.99

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.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Min
2 3 4 5 6 7 8 9 10 11 12 13 14
-Bromomethane
-Chloroethane+
-Trichlorofluoromethane+
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-n-Butanol
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-Tetrachloroethene+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene+
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Instrument: voa6.i
Operator: PC
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Page 1

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Chloroprene (126-99-8)

Reason Code:

BEFORE

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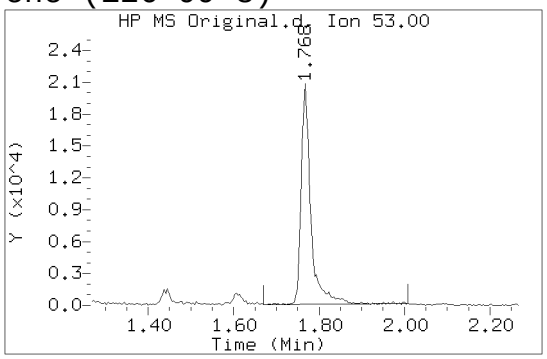
09-Feb-2023
15:36
Kori
Bagsby



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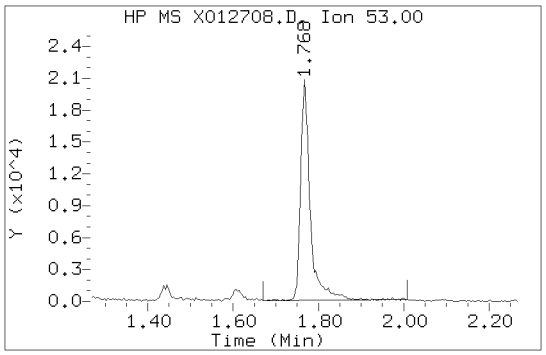

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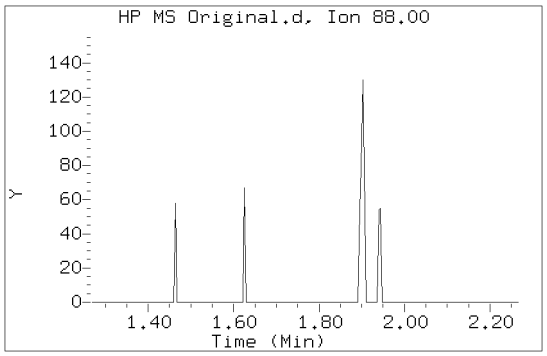

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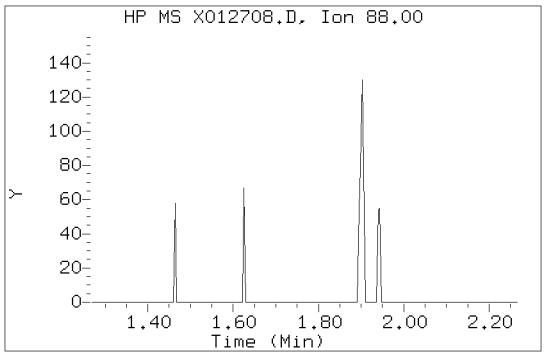

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Report Date: 14-Feb-2023 11:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D
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Inj Date : 27-JAN-2023 10:39
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Misc Info : V6;WATER;0;1;
Comment   :
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Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 8   QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.174	4.177	(1.000)	684294	50.0000	
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	60228	12.8781	12.87
3	Chloromethane	50	1.074	1.074	(0.257)	83475	15.0981	15.09(R)
4	Propionitrile	54	3.649	3.645	(0.874)	105930	151.713	151.71(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	82810	13.8532	13.85(R)
6	Bromomethane	94	1.336	1.336	(0.320)	63563	15.3269	15.32(R)
7	Chloroethane	64	1.400	1.400	(0.335)	56895	13.6745	13.67(R)
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	140807	16.8326	16.83
9	Acrolein	56	1.441	1.441	(0.345)	11609	26.9280	26.92
10	Acetone	43	1.970	1.966	(0.472)	49174	25.5850	25.58
11	1,1-Dichloroethene	96	1.910	1.909	(0.458)	80268	15.4555	15.45(R)
12	Isobutyl Alcohol	43	4.669	4.672	(1.119)	242031	314.457	314.45(a)
13	Acetonitrile	39	2.194	2.194	(0.526)	94503	151.741	151.74(a)
14	Allyl Chloride	41	2.194	2.194	(0.526)	177740	14.9846	14.98(a)
15	Iodomethane	142	2.022	2.022	(0.485)	194811	31.6536	31.65
16	Acrylonitrile	53	2.532	2.528	(0.607)	55360	31.4291	31.42
17	Methylene Chloride	84	2.299	2.299	(0.551)	100943	14.1699	14.16(R)
18	Methyl tert-butyl ether	73	2.528	2.528	(0.606)	251323	14.7843	14.78
19	Carbon Disulfide	76	2.063	2.067	(0.494)	435768	32.0700	32.06(R)
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	91770	15.7885	15.78(R)

21 Vinyl Acetate	43	2.993	2.993 (0.717)	412267	27.6270	27.62
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	165006	16.1756	16.17(R)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D Page 2
Report Date: 14-Feb-2023 11:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	29950	12.8724	12.87(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	58838	31.0410	31.04(R)
	25 Methacrylonitrile	41	3.821	3.814	(0.916)	69614	14.3671	14.36(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.839)	113010	13.0479	13.04
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	107626	15.2150	15.21(R)
	28 Chloroform	83	3.900	3.900	(0.934)	196876	17.2194	17.21(R)
	29 Bromochloromethane	128	3.791	3.791	(0.908)	57282	14.7901	14.79
$	30 Dibromofluoromethane	113	4.091	4.095	(0.980)	299860	45.6223	45.62(RR)
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	163427	18.0157	18.01(R)
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	131242	19.2478	19.24
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	147467	18.7400	18.74(R)
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	141910	19.4898	19.48(R)
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.070)	349106	50.3369	50.33(RR)
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	960426	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	392045	17.0939	17.09(R)
	38 Trichloroethene	130	5.205	5.205	(1.049)	114207	17.5567	17.55(R)
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	141963	16.4934	16.49(R)
	40 Methyl Methacrylate	41	5.606	5.602	(1.343)	68372	14.6536	14.65(a)
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	98782	16.1917	16.19(R)
	43 2-Nitropropane	43	5.969	5.965	(1.430)	25558	14.7904	14.79
	44 Dibromomethane	93	5.553	5.549	(1.119)	67980	16.3938	16.39
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	177579	37.8915	37.89(R)
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	160778	15.9052	15.90(R)
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	876804	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1120042	51.6948	51.69(RR)
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	66208	14.6390	14.63(a)
	50 Toluene	91	6.445	6.445	(0.841)	430041	17.7445	17.74(R)
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	136606	16.2842	16.28(R)
	52 2-Hexanone	43	7.086	7.083	(0.924)	118789	37.2548	37.25(R)
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	82207	16.9081	16.90(R)
	54 1,3-Dichloropropane	76	6.978	6.981	(0.910)	165034	17.2450	17.24
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	118511	16.8886	16.88(R)
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	95166	18.9788	18.97(R)
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	107632	17.7058	17.70
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	95155	20.5012	20.50
	59 Chlorobenzene	112	7.694	7.690	(1.003)	295669	17.2002	17.20(R)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	108946	17.0304	17.03
	61 Ethylbenzene	106	7.799	7.795	(1.017)	151930	18.7630	18.76(R)
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	378607	36.2707	36.27(R)
	63 o-Xylene	106	8.241	8.241	(1.075)	182457	17.7098	17.70(R)
	64 Styrene	104	8.260	8.256	(1.077)	302006	17.4890	17.48(R)
	66 Bromoform	173	8.410	8.410	(1.097)	79870	16.4294	16.42(R)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	473729	20.1265	20.12
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	129843	17.0902	17.09(R)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	419528	51.8002	51.80(RR)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	476674	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	138542	26.1203	26.12
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	30677	16.2072	16.20(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	547572	20.7386	20.73
	74 Bromobenzene	156	8.803	8.803	(0.911)	137522	17.5847	17.58
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	402384	20.6297	20.62
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	337074	19.4545	19.45

77 4-Chlorotoluene	91	9.070	9.069 (0.939)	389124	19.7007	19.70
78 tert-Butylbenzene	119	9.336	9.336 (0.966)	344786	21.5947	21.59

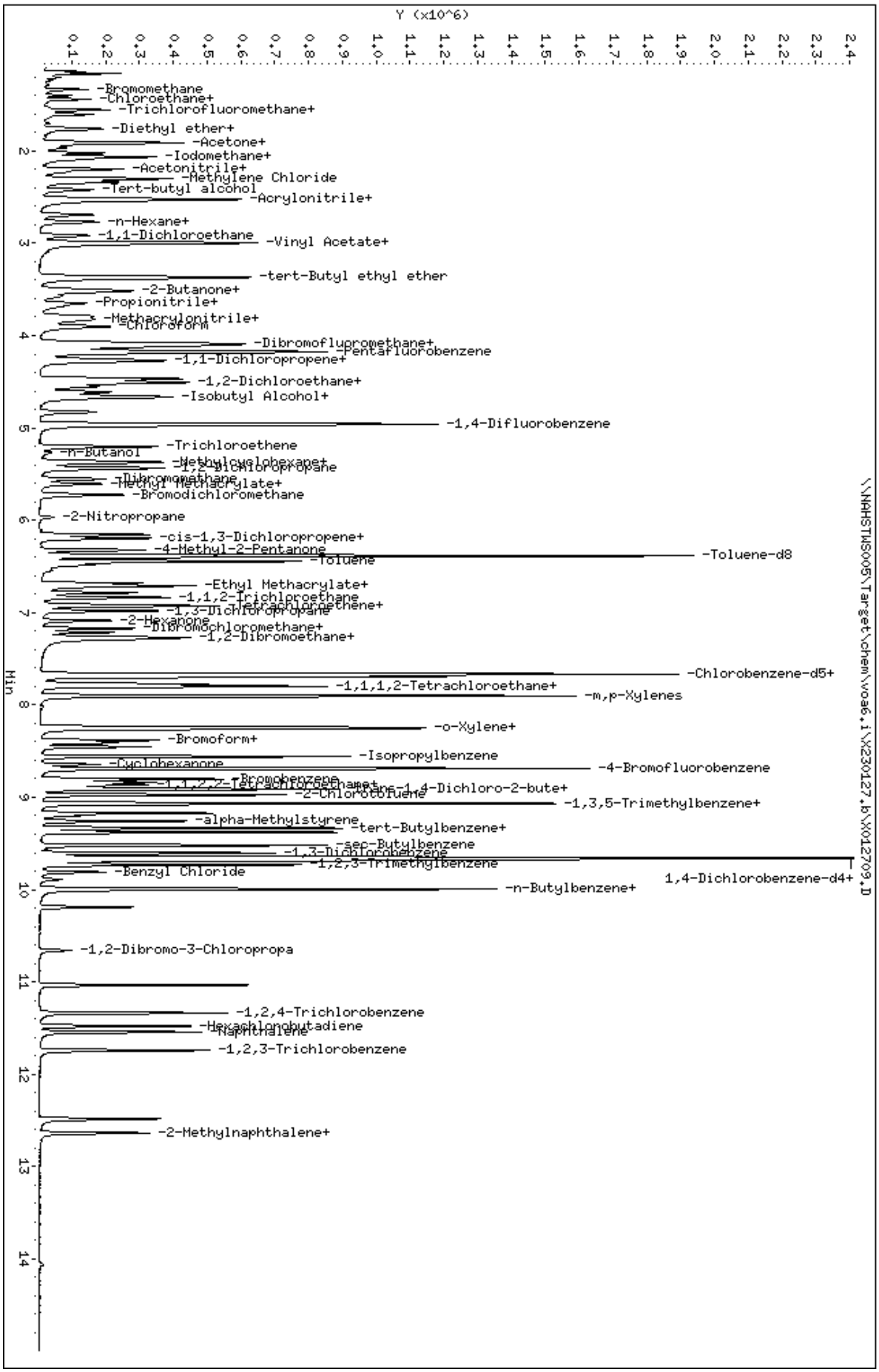
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	399774	19.4790	19.47
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	474896	22.3548	22.35
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	412155	21.6510	21.65
83	1,3-Dichlorobenzene	146	9.606	9.605	(0.994)	241168	18.5795	18.57
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	257086	18.1500	18.15
86	Benzyl Chloride	91	9.812	9.808	(1.280)	120272	10.9866	10.98
87	n-Butylbenzene	91	9.995	9.992	(1.035)	345219	19.9242	19.92
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	240537	17.9930	17.99
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	20995	17.3450	17.34
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	161074	19.0923	19.09
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	73507	19.7703	19.77
92	Naphthalene	128	11.544	11.540	(1.195)	349302	18.1972	18.19
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	147633	18.2712	18.27
146	Methyl acetate	43	2.228	2.224	(0.534)	44128	14.3311	14.33
138	Freon TF	101	1.910	1.913	(0.458)	85890	17.0988	17.09
141	Cyclohexane	56	4.118	4.117	(0.987)	147778	22.1453	22.14
142	Tetrahydrofuran	42	3.844	3.836	(0.921)	24929	27.0657	27.06
147	Methylcyclohexane	55	5.377	5.373	(1.084)	200140	17.0239	17.02
135	1,4-Dioxane	88	5.595	5.598	(1.340)	21662	346.306	346.30
132	n-Butanol	56	5.265	5.253	(1.261)	23396	306.254	306.25(a)
131	Methyl Acrylate	55	3.686	3.683	(0.883)	69039	14.8607	14.86
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	200140	16.2111	16.21
136	n-Hexane	57	2.768	2.768	(0.663)	86118	17.4788	17.47
139	Diethyl ether	59	1.752	1.752	(0.420)	59553	13.0247	13.02
148	Tert-butyl alcohol	59	2.423	2.419	(0.581)	178202	376.091	376.09
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	95762	386.987	386.98
156	Diisopropyl ether	45	2.997	2.993	(0.718)	252534	14.2263	14.22
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	139417	15.0752	15.07
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	356453	15.5288	15.52
167	Ethanol	45	1.700	1.700	(0.407)	16590	370.087	370.08
172	tert-Butyl formate	59	4.612	4.612	(1.105)	131901	36.3256	36.32
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	118586	285.854	285.85
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	283929	14.3943	14.39
175	tert-Butyl ethyl ether	59	3.368	3.371	(0.807)	269067	14.2648	14.26
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	131901	358.901	358.90
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	252427	277.689	277.68
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	139417		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	63436	13.5073	13.50
152	Amyl alcohol	42	6.907	6.899	(0.901)	25366	292.559	292.55
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	9721	10.9714	10.97
159	Propylene oxide	43	1.752	1.752	(0.420)	12051	28.0052	28.00
161	3-Methyl-1-butanol	55	6.910	6.899	(0.901)	26896	310.263	310.26
162	Butyl acrylate	55	8.252	8.248	(1.076)	176944	15.4489	15.44
182	Epichlorohydrin	57	6.104	6.093	(1.230)	4702	13.2946	13.29
M 94	1,2-Dichloroethylene (total)	96				199396	31.0036	31.00
M 95	Xylenes (total)	106				561064	53.9805	53.98(R)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	106513	10.0847	10.08
130	Ethyl Acetate	43	3.653	3.645	(0.875)	78369	14.6768	14.67
134	Cyclohexanone	55	8.642	8.642	(0.894)	58017	291.778	291.77(a)
185	Isoprene	39	1.767	1.767	(0.423)	23934	13.1291	13.12
186	Isopentane	42	1.606	1.606	(0.385)	40255		(a)
188	Isopropyl acetate	43	4.669	4.672	(0.941)	242967	16.2830	16.28

187 n-Amyl acetate	43	8.455	8.451 (1.103)	147832	14.4591	14.45
189 n-Butyl acetate	43	7.214	7.210 (0.941)	123242	16.3626	16.36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	86118	342.395	342.39
195 Methyl Amyl Ketone	43	8.383	8.380	(1.093)	173148	14.8529	14.85
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	162468	13.6910	13.69
168 1-Propanol	59	2.993	2.997	(0.717)	29218	261.270	261.27

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D
Date : 27-JAN-2023 10:39
Client ID:
Sample Info: HS23011212-02MSD;HS23011212-02MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

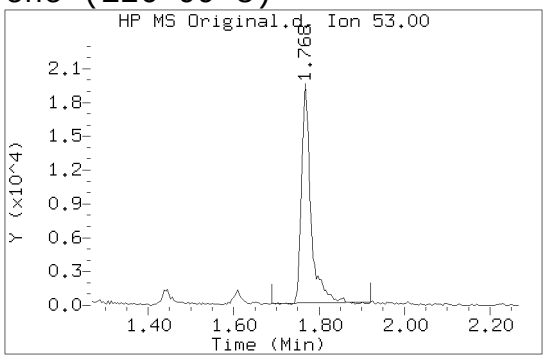
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D
Inj Date : 27-JAN-2023 10:39
InstruID : voa6.i
LabSampID : HS23011212-02MSD

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
29950
HEIGHT
19446
13-Feb-2023
13:43
linh
pham



AFTER

MASS
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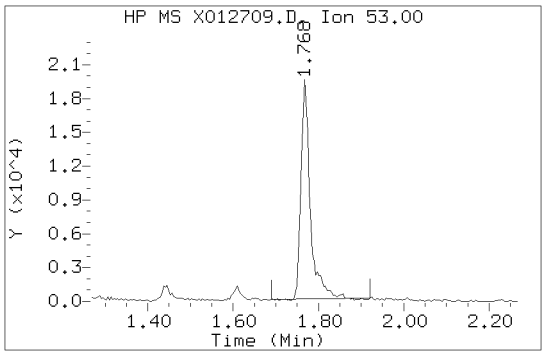
AREA
29950
HEIGHT
19446
14-Feb-2023
11:46
linh
pham



BEFORE

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HEIGHT
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13-Feb-2023
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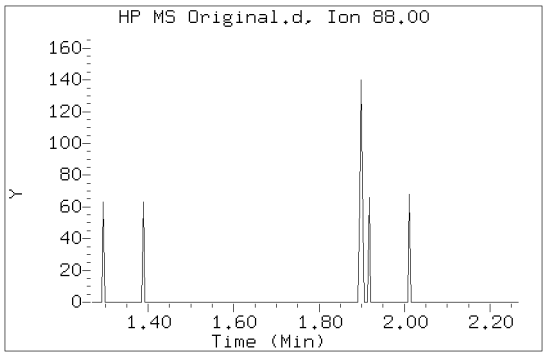

AFTER

MASS
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AREA
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HEIGHT
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11:46
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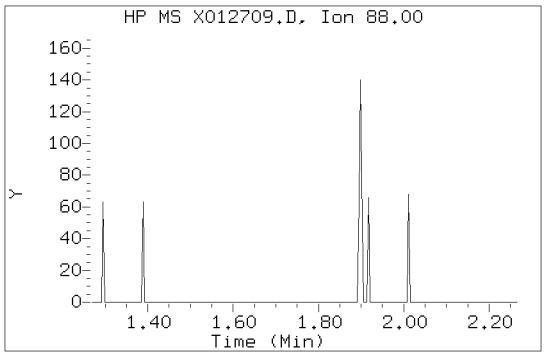


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012710.D Page 1
Report Date: 13-Feb-2023 13:50

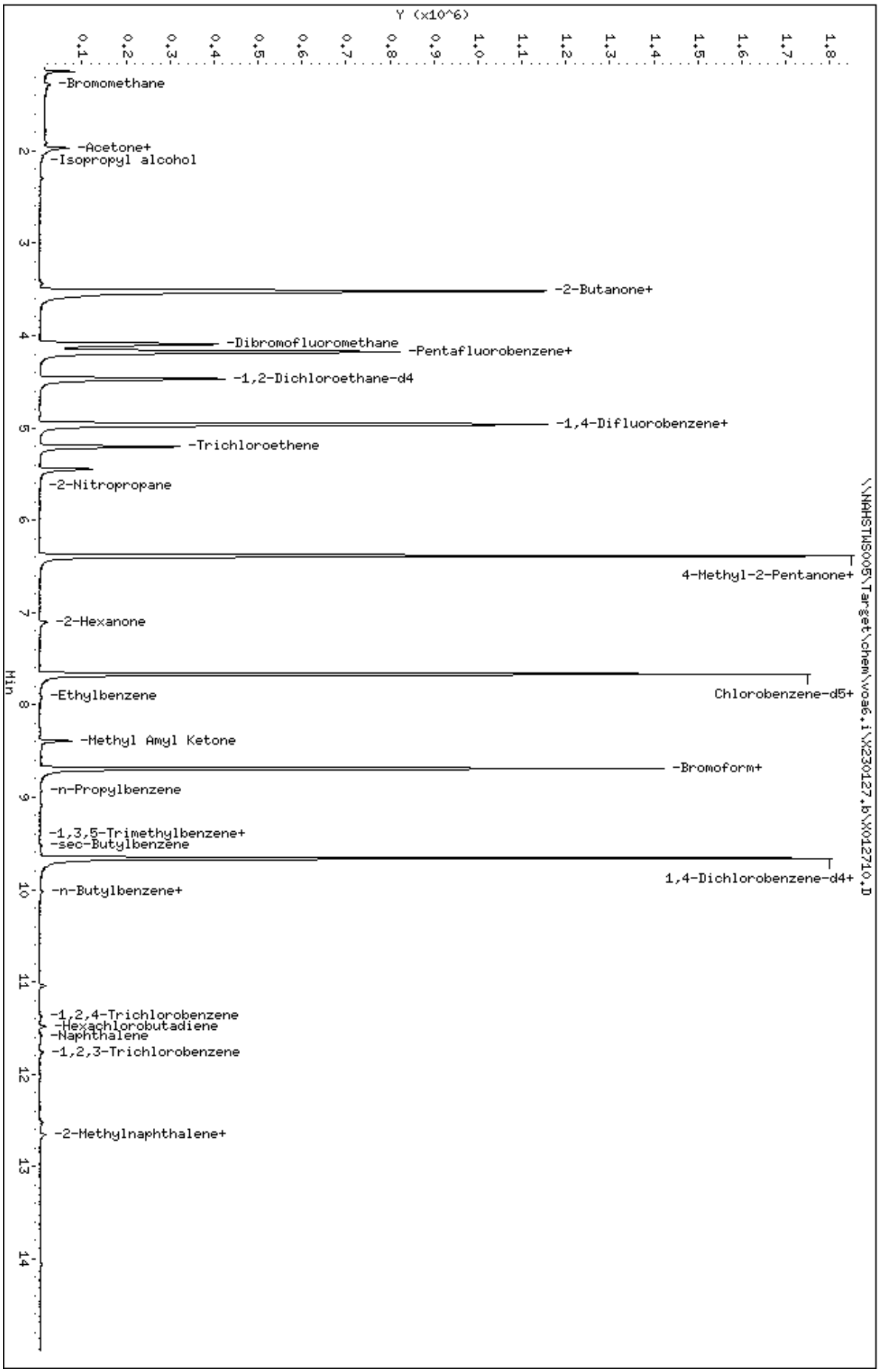
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012710.D
Lab Smp Id: HS23011136-05 Client Smp ID: HS23011136-05
Inj Date : 27-JAN-2023 11:00
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-05;HS23011136-05;;;
Misc Info : V6;WATER;0;200;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 9
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: 8260-dryclean.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	200.000	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	4.174	4.174	(1.000)	674400	50.0000	
$ 30 Dibromofluoromethane	113	4.091	4.091	(0.980)	295980	45.6929	45.69
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	340474	49.8153	49.81
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	953078	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	861103	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1102805	51.8273	51.82
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	392636	49.3667	49.36
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	432391	50.0000	
5 Vinyl Chloride	62	1.141	1.137	(0.274)	45841	7.78119	1556.23
27 cis-1,2-Dichloroethene	96	3.518	3.522	(0.843)	638066	91.5264	18305.28
38 Trichloroethene	130	5.205	5.201	(1.049)	107610	16.6701	3334.02



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Date : 27-JAN-2023 11:00
Client ID: HS23011136-05
Sample Info: HS23011136-05;HS23011136-05;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012710.D

Date : 27-JAN-2023 11:00

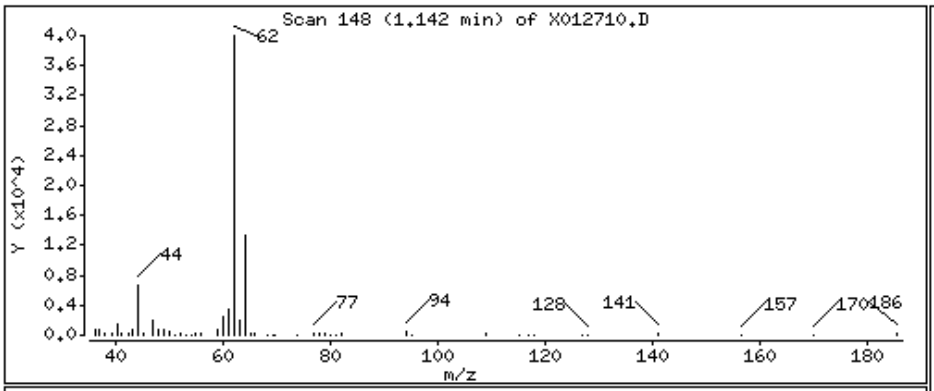
Client ID: HS23011136-05 Instrument: voa6.i

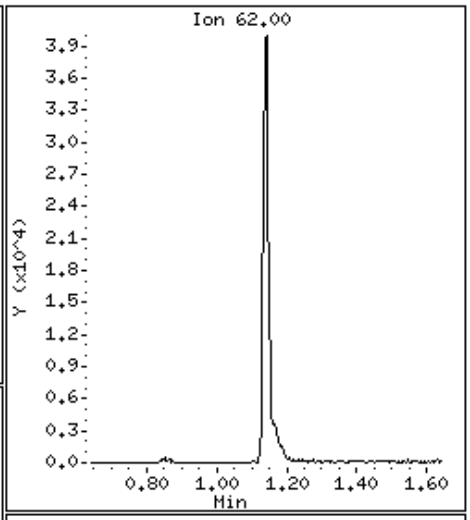
Sample Info: HS23011136-05;HS23011136-05;;;

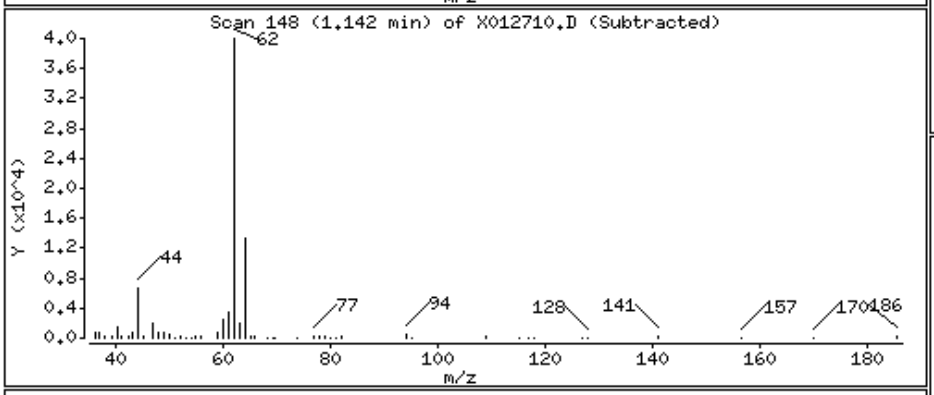
Purge Volume: 5.0 Operator: FT

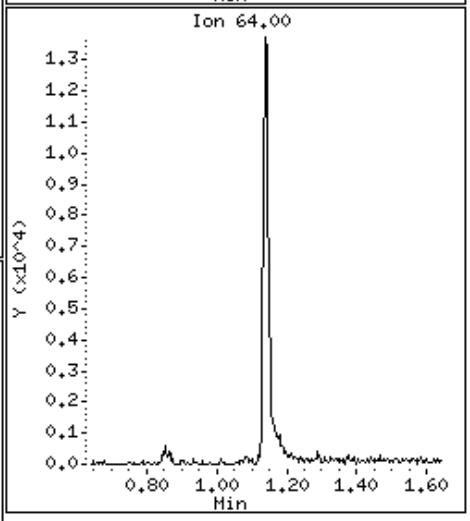
Column phase: DB624 Column diameter: 0.18

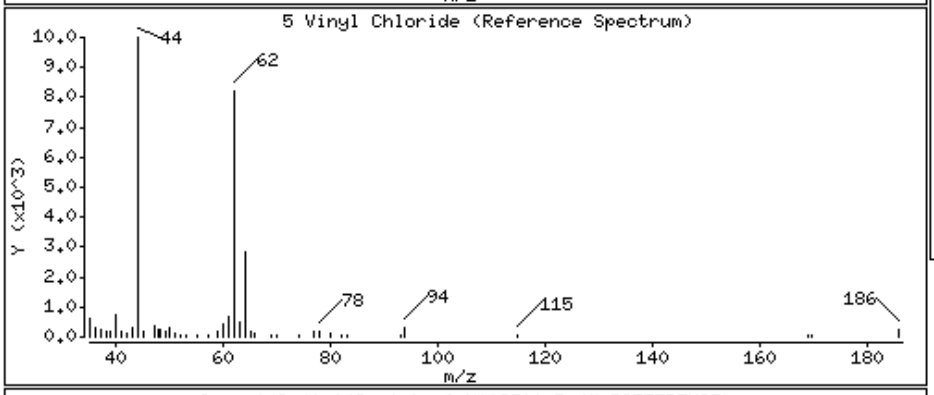
5 Vinyl Chloride Concentration: 1556.23 ug/l

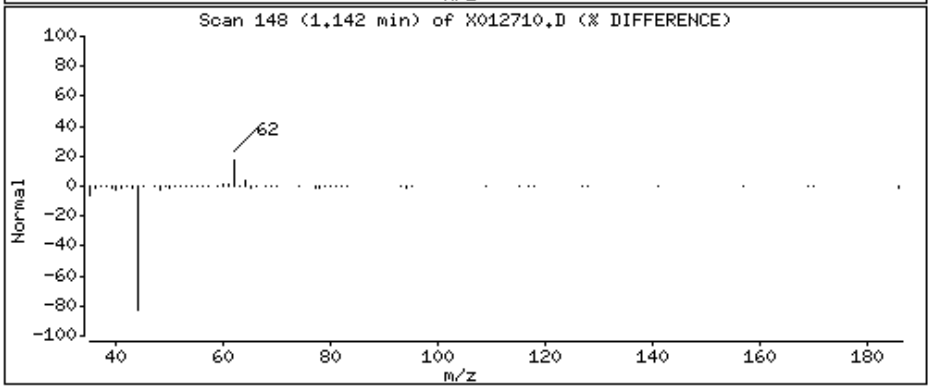












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012710.D

Date : 27-JAN-2023 11:00

Client ID: HS23011136-05

Instrument: voa6.i

Sample Info: HS23011136-05;HS23011136-05;;;

Purge Volume: 5.0

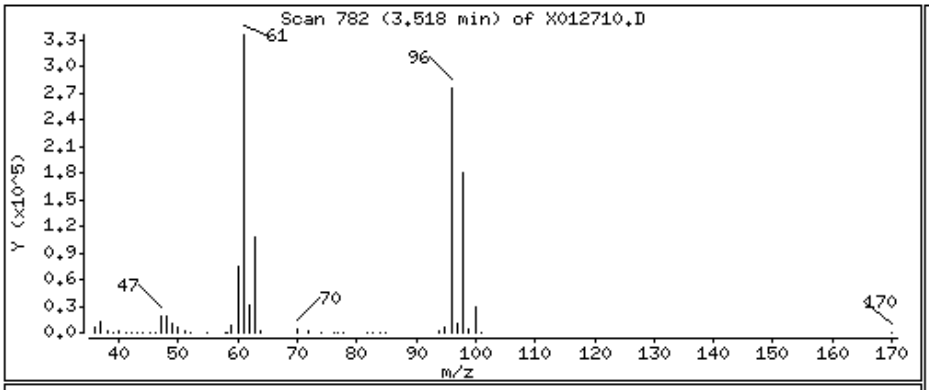
Operator: FT

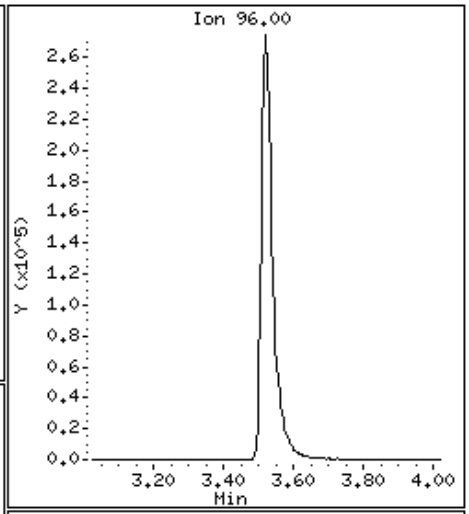
Column phase: DB624

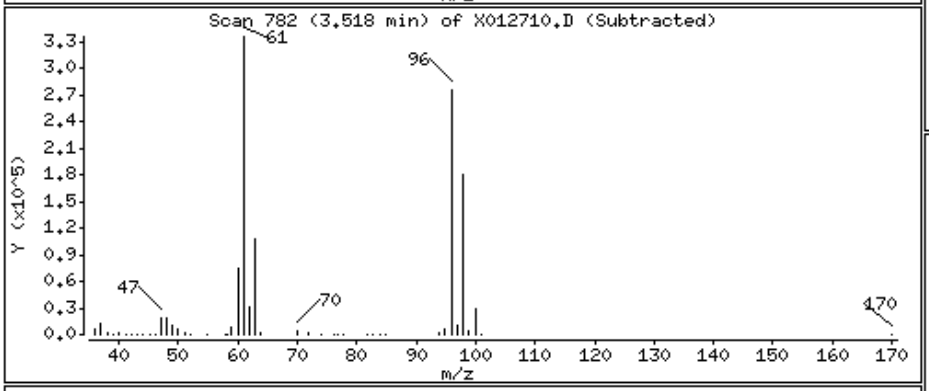
Column diameter: 0.18

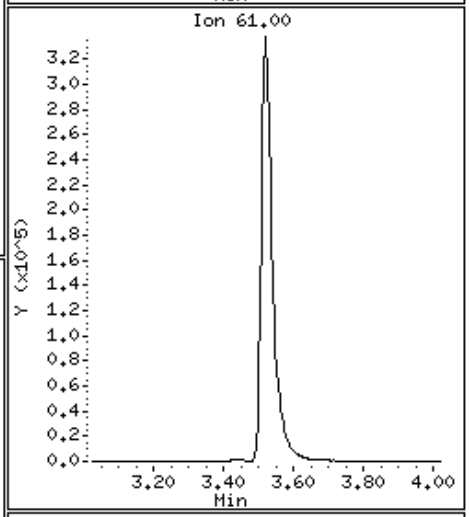
27 cis-1,2-Dichloroethene

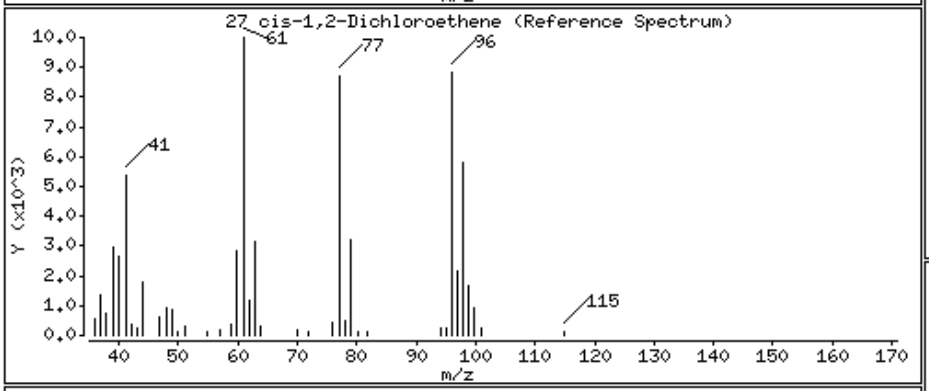
Concentration: 18305.28 ug/l

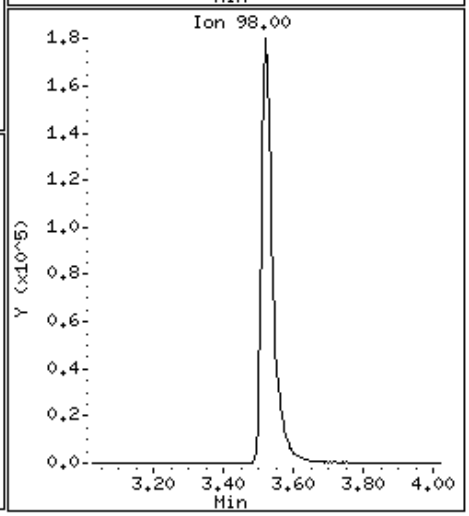


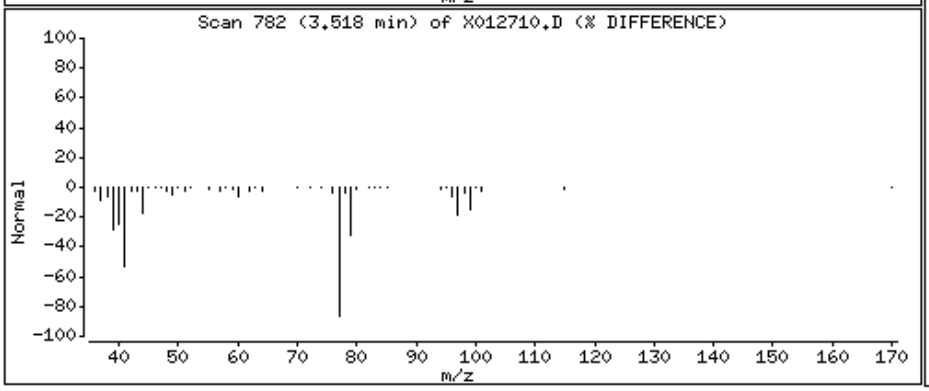












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012710.D Page 4

Date : 27-JAN-2023 11:00

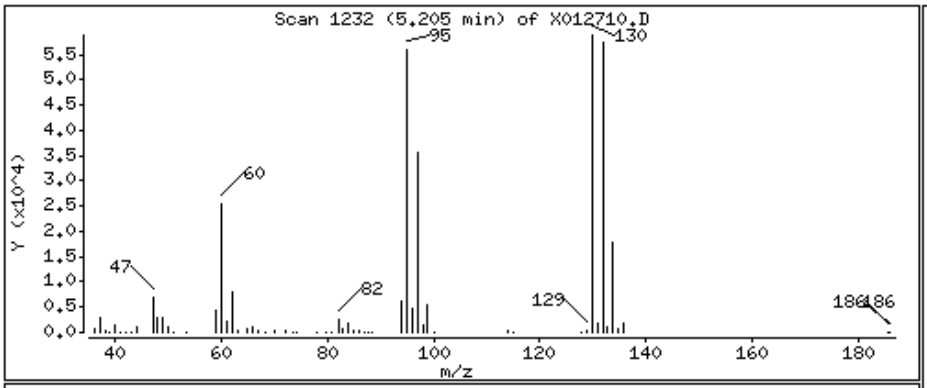
Client ID: HS23011136-05 Instrument: voa6.i

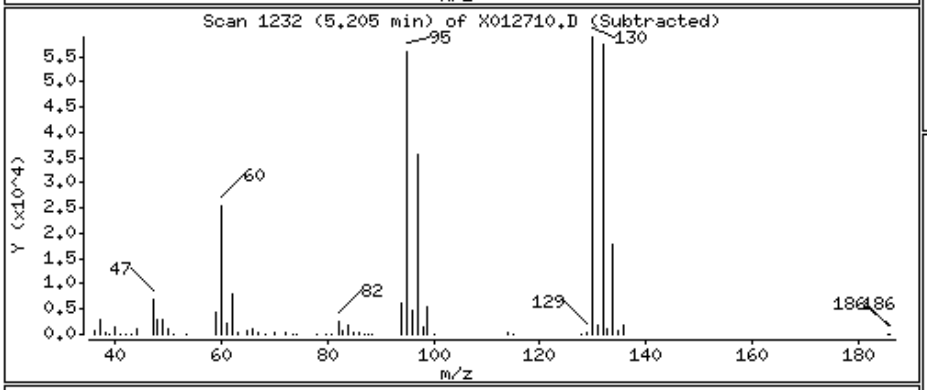
Sample Info: HS23011136-05;HS23011136-05;;;

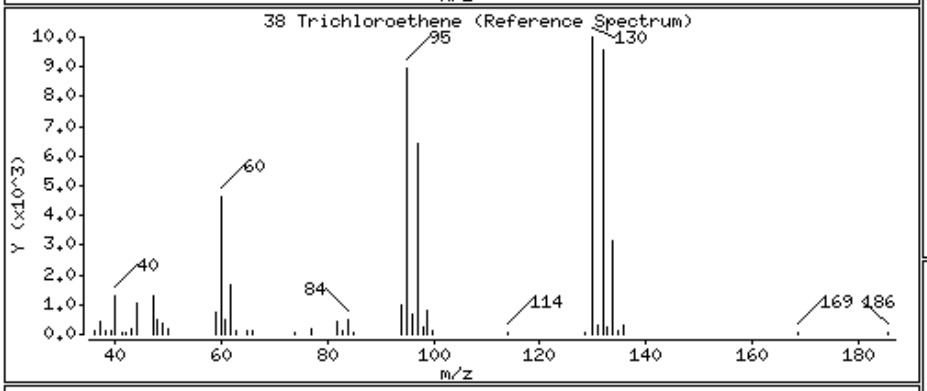
Purge Volume: 5.0 Operator: FT

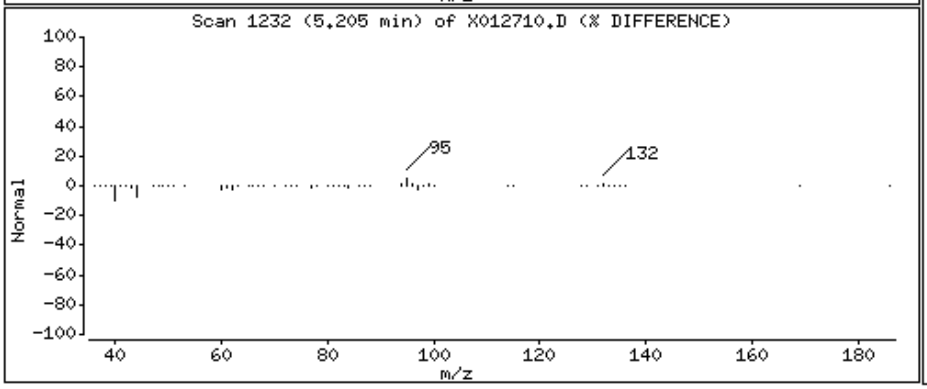
Column phase: DB624 Column diameter: 0.18

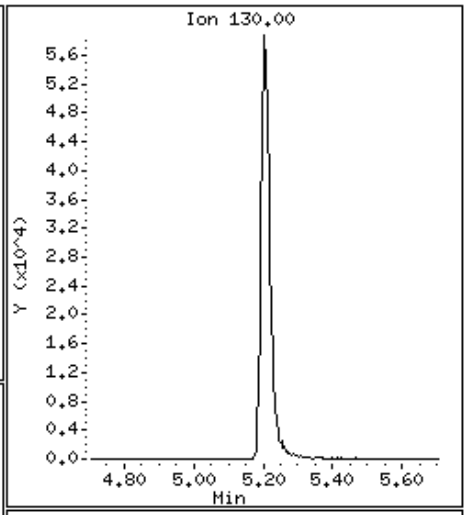
38 Trichloroethene Concentration: 3334.02 ug/l

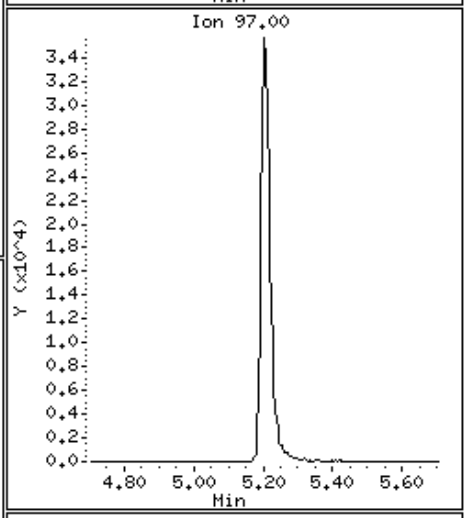


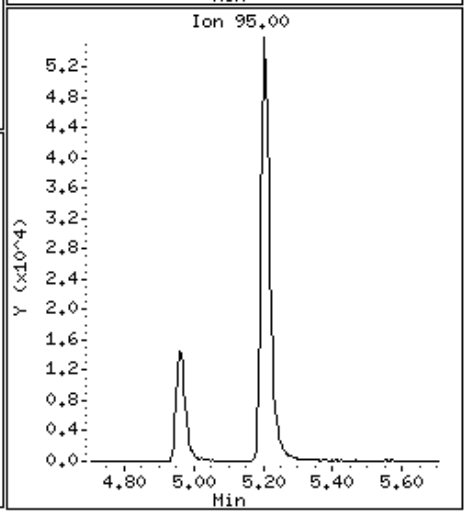












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Inj Date : 27-JAN-2023 11:00
InstruID : voa6.i
LabSampID : HS23011136-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012711.D Page 1
Report Date: 13-Feb-2023 13:50

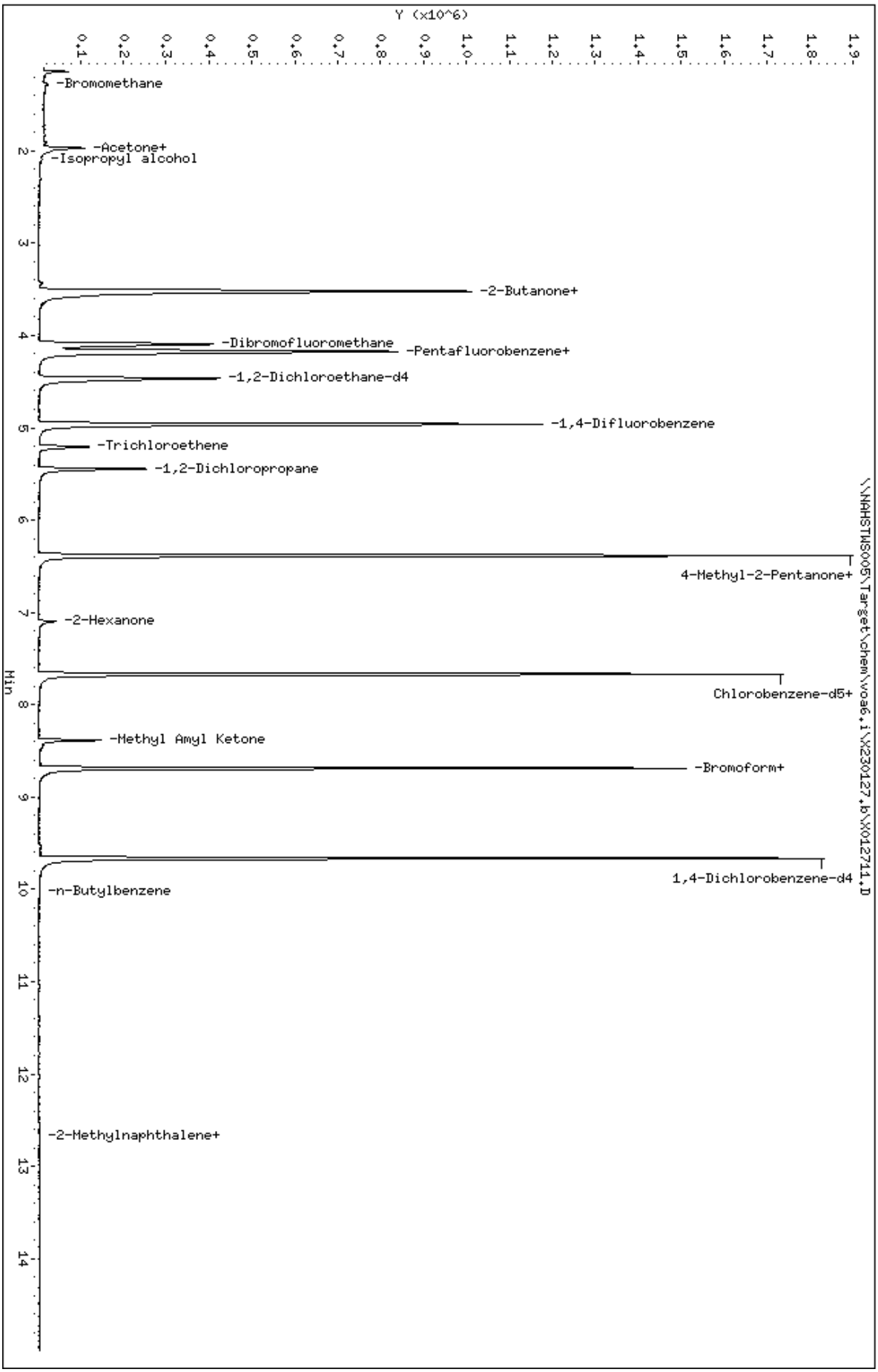
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012711.D
Lab Smp Id: HS23011136-06 Client Smp ID: HS23011136-06
Inj Date : 27-JAN-2023 11:21
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-06;HS23011136-06;;;
Misc Info : V6;WATER;0;200;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 10
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: 8260-dryclean.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	200.000	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	4.174	4.174	(1.000)	685696	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.091	(0.981)	299922	45.5381	45.53
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	344949	49.6396	49.63
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	967161	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	868062	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1120263	52.2257	52.22
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	404101	50.3996	50.39
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	456343	50.0000	
5 Vinyl Chloride	62	1.141	1.137	(0.273)	39014	6.51326	1302.65
27 cis-1,2-Dichloroethene	96	3.521	3.522	(0.844)	559711	78.9643	15792.85
38 Trichloroethene	130	5.208	5.201	(1.050)	40799	6.22824	1245.64



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012711.D
Date : 27-JAN-2023 11:21
Client ID: HS23011136-06
Sample Info: HS23011136-06;HS23011136-06;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012711.D

Date : 27-JAN-2023 11:21

Client ID: HS23011136-06

Instrument: voa6.i

Sample Info: HS23011136-06;HS23011136-06;;;

Purge Volume: 5.0

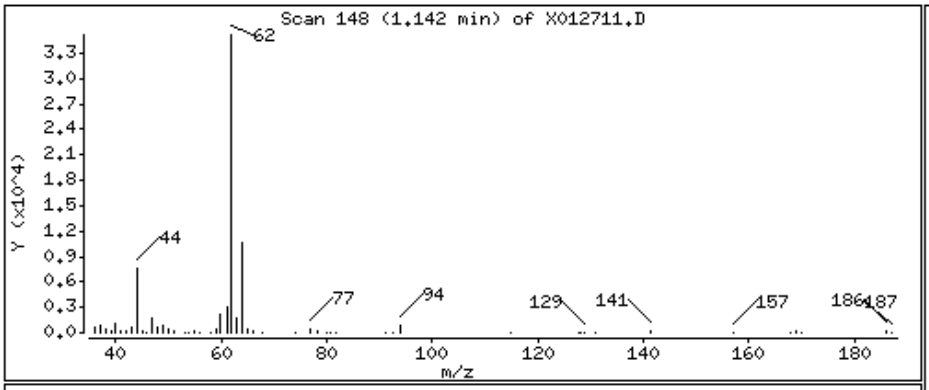
Operator: FT

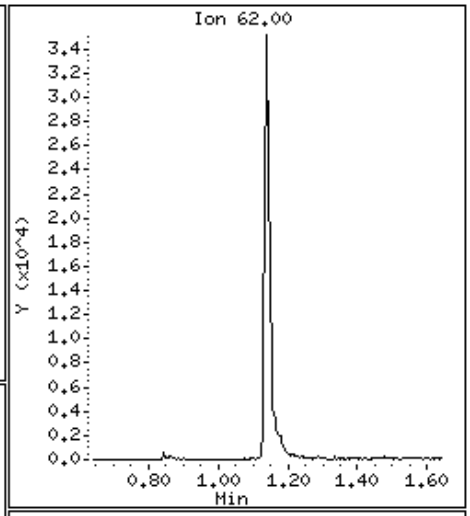
Column phase: DB624

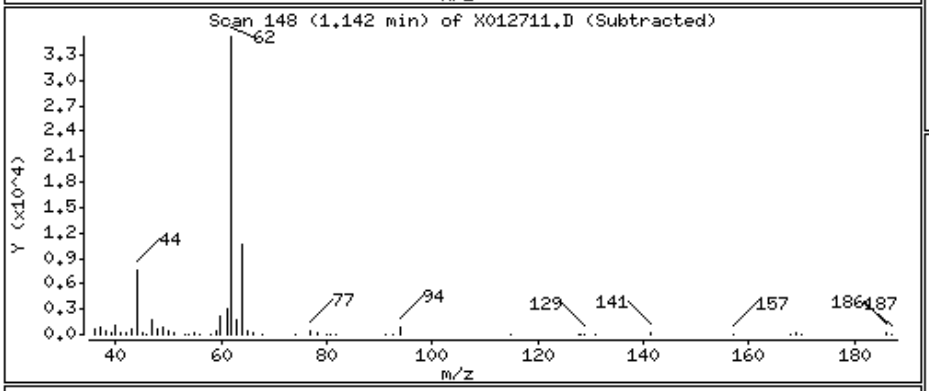
Column diameter: 0.18

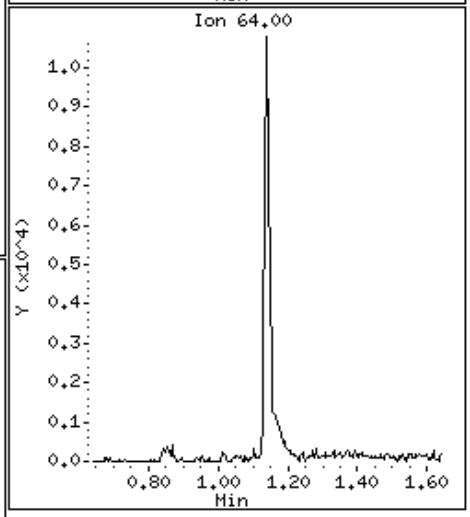
5 Vinyl Chloride

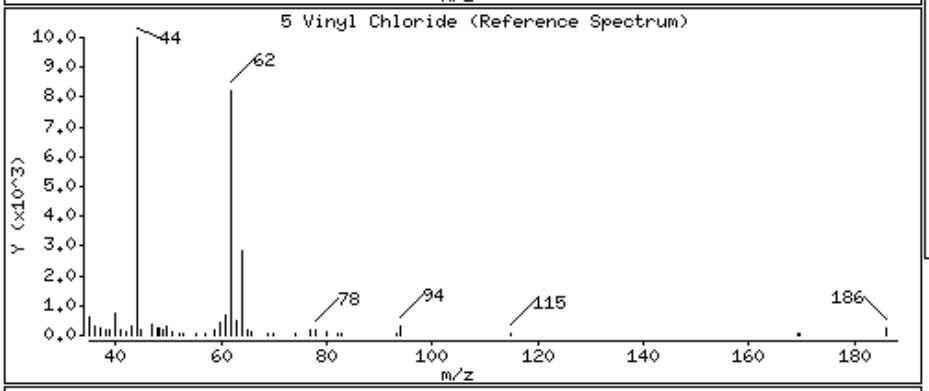
Concentration: 1302.65 ug/l

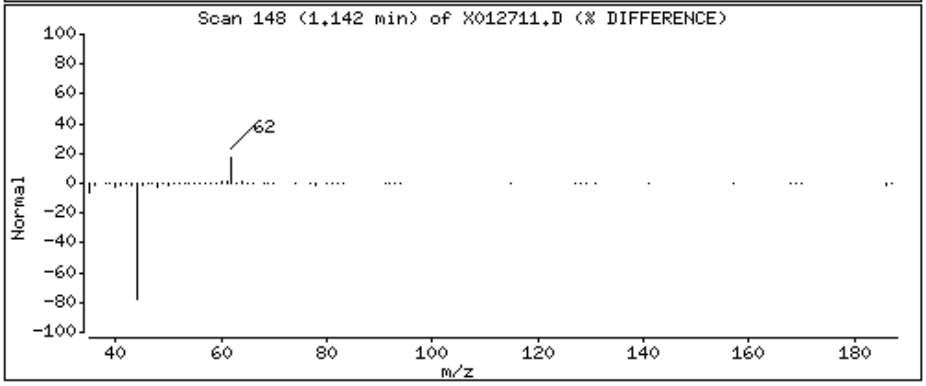












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012711.D Page 3

Date : 27-JAN-2023 11:21

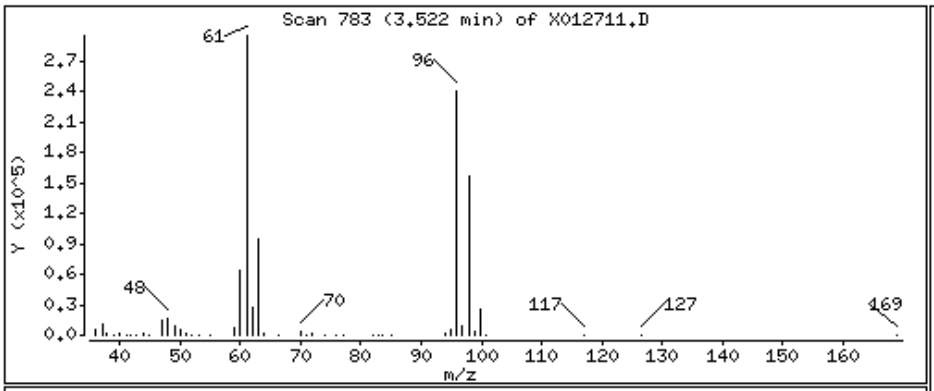
Client ID: HS23011136-06 Instrument: voa6.i

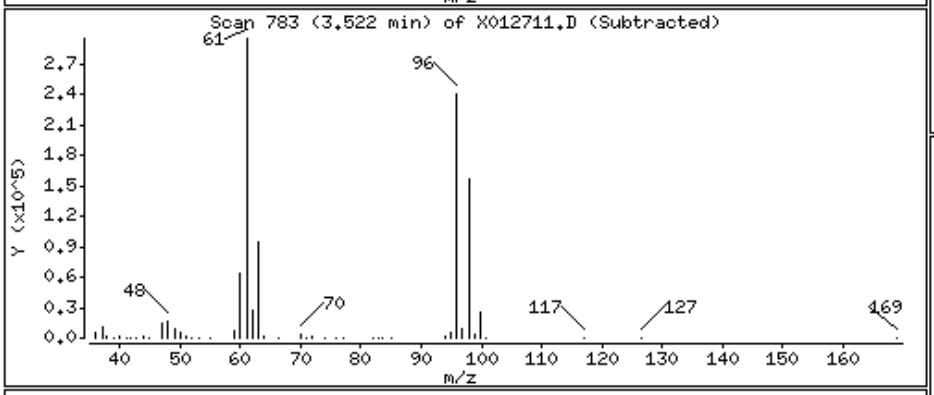
Sample Info: HS23011136-06;HS23011136-06;;;

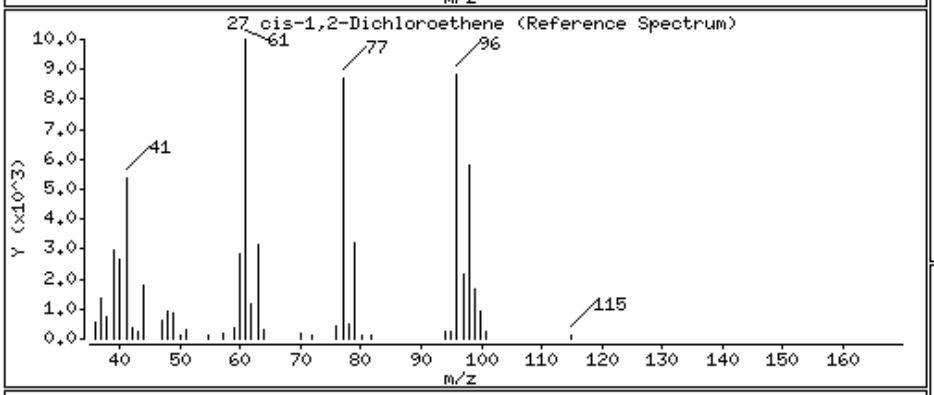
Purge Volume: 5.0 Operator: FT

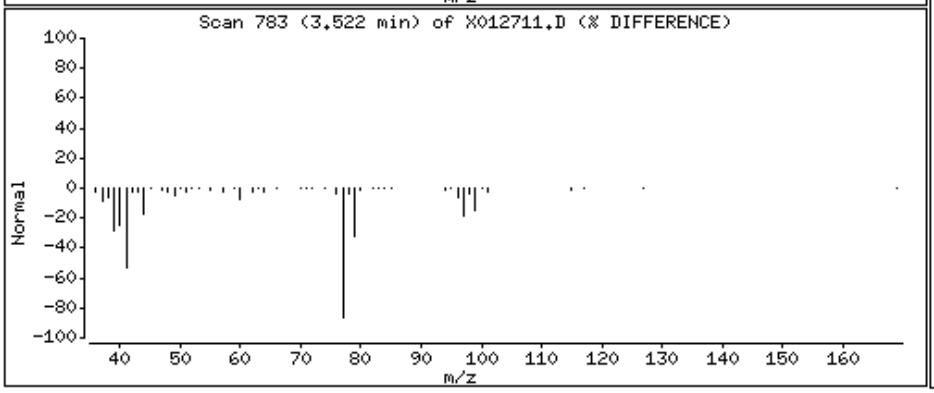
Column phase: DB624 Column diameter: 0.18

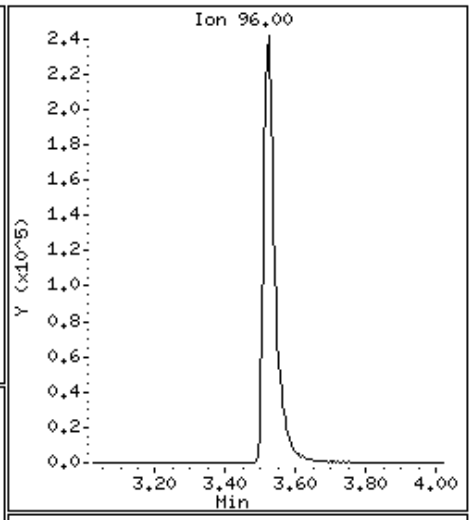
27 cis-1,2-Dichloroethene Concentration: 15792.85 ug/l

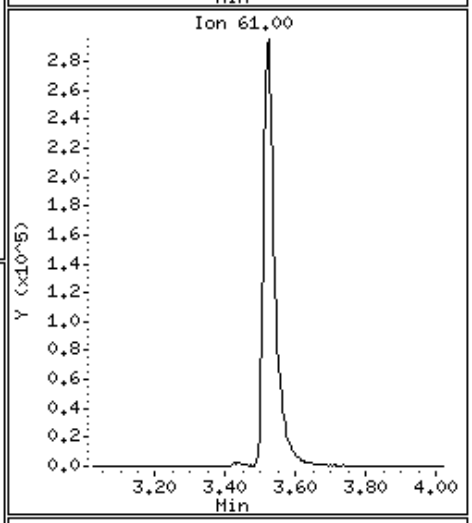


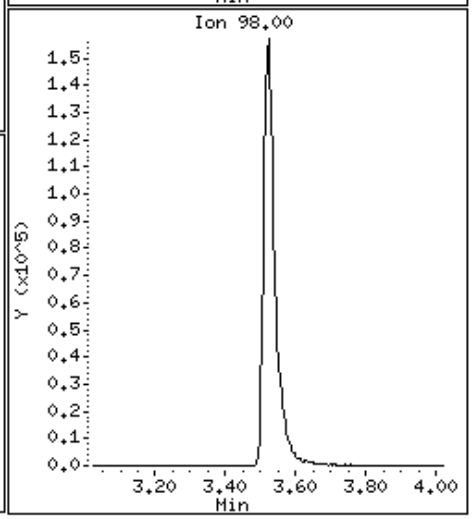












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012711.D Page 4

Date : 27-JAN-2023 11:21

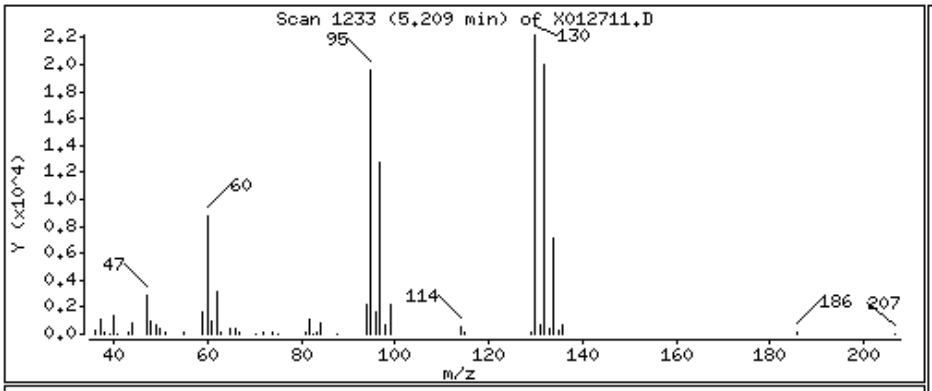
Client ID: HS23011136-06 Instrument: voa6.i

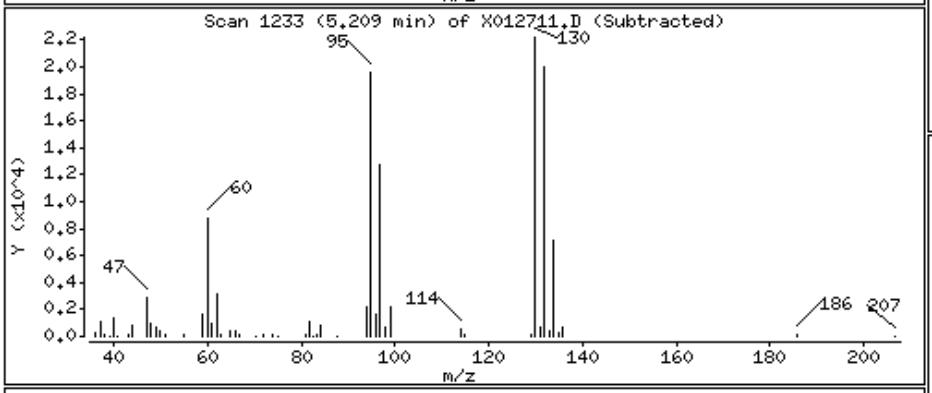
Sample Info: HS23011136-06;HS23011136-06;;;

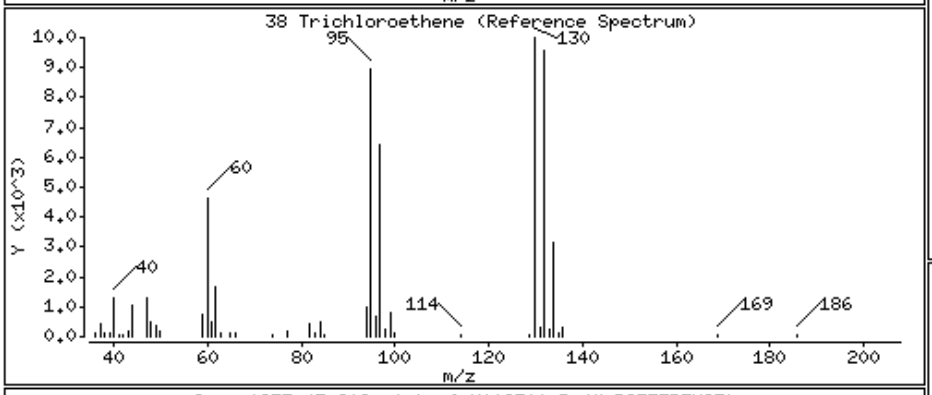
Purge Volume: 5.0 Operator: FT

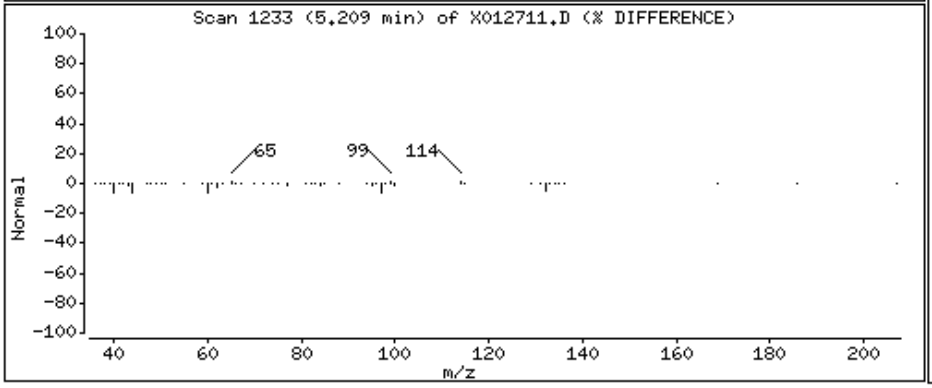
Column phase: DB624 Column diameter: 0.18

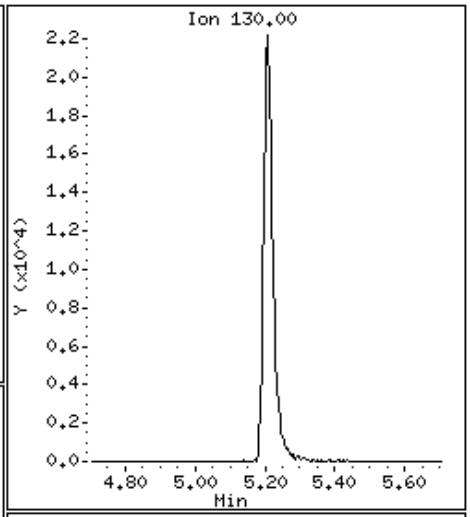
38 Trichloroethene Concentration: 1245.64 ug/l

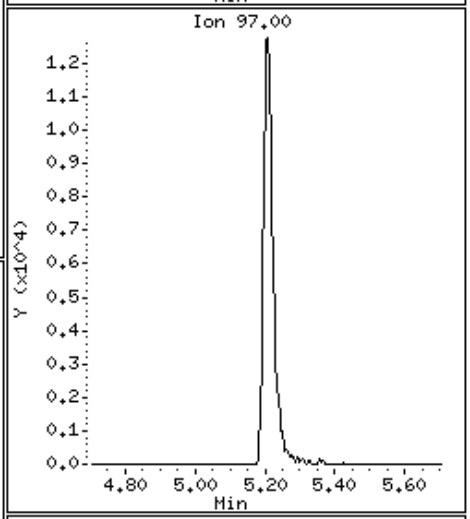


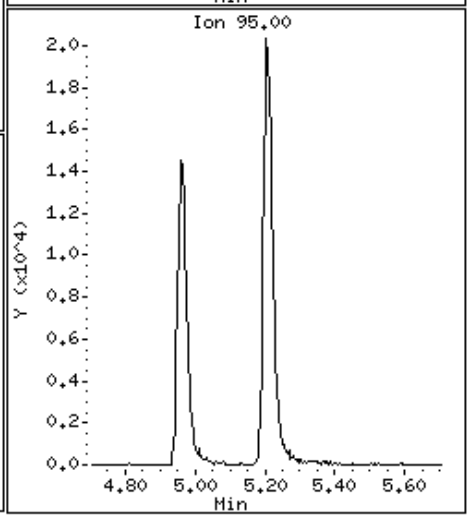












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Inj Date : 27-JAN-2023 11:21
InstruID : voa6.i
LabSampID : HS23011136-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012729.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012729.D
Lab Smp Id: CCV-END
Inj Date : 27-JAN-2023 17:39
Operator : PC   Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:50 voa6.i   Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 28   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	4.177	4.177	(1.000)	517192	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	151352	50.0000	41.90
3 Chloromethane	50	1.074	1.074	(0.257)	228916	50.0000	48.96
4 Propionitrile	54	3.645	3.645	(0.873)	271033	500.000	513.59
5 Vinyl Chloride	62	1.141	1.141	(0.273)	206840	50.0000	45.78
6 Bromomethane	94	1.336	1.336	(0.320)	167275	50.0000	48.98
7 Chloroethane	64	1.400	1.400	(0.335)	138754	50.0000	44.12
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	340044	50.0000	53.78
9 Acrolein	56	1.441	1.441	(0.345)	30795	100.000	87.42
10 Acetone	43	1.966	1.966	(0.471)	115157	100.000	79.34
11 1,1-Dichloroethene	96	1.909	1.909	(0.457)	198955	50.0000	50.68
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	648887	1000.00	1115.44
13 Acetonitrile	39	2.194	2.194	(0.525)	267455	500.000	568.19
14 Allyl Chloride	41	2.194	2.194	(0.525)	474699	50.0000	52.95
15 Iodomethane	142	2.022	2.022	(0.484)	419436	100.000	82.31
16 Acrylonitrile	53	2.528	2.528	(0.605)	144149	100.000	108.27
17 Methylene Chloride	84	2.299	2.299	(0.550)	260253	50.0000	48.33
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	662254	50.0000	51.54
19 Carbon Disulfide	76	2.067	2.067	(0.495)	1093848	100.000	106.51
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	234298	50.0000	53.33

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1168599	100.000	103.61
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	406963	50.0000	52.78

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012729.D Page 2
Report Date: 13-Feb-2023 13:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	83317	50.0000	47.37(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	151679	100.000	98.58
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	184047	50.0000	50.25(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	338340	50.0000	51.68
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	274053	50.0000	51.26
	28 Chloroform	83	3.900	3.900	(0.934)	466926	50.0000	54.03
	29 Bromochloromethane	128	3.791	3.791	(0.908)	146417	50.0000	50.01
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	251643	50.0000	50.67
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	402933	50.0000	58.76
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	336863	50.0000	59.09
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	369547	50.0000	56.17
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	341988	50.0000	56.17
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	287861	50.0000	54.89
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	802974	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	988776	50.0000	51.56
	38 Trichloroethene	130	5.205	5.205	(1.049)	302247	50.0000	55.57
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	366725	50.0000	50.96
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	193857	50.0000	54.97
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	197798	100.000	96.61
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	250830	50.0000	49.17
	43 2-Nitropropane	43	5.965	5.965	(1.428)	70730	50.0000	54.15
	44 Dibromomethane	93	5.549	5.549	(1.119)	172203	50.0000	49.67
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	419529	100.000	101.86
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	432240	50.0000	51.14
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	770510	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	916364	50.0000	48.12
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	183873	50.0000	48.62
	50 Toluene	91	6.445	6.445	(0.841)	1105873	50.0000	51.92
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	369502	50.0000	52.68
	52 2-Hexanone	43	7.083	7.083	(0.924)	286314	100.000	102.18
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	207385	50.0000	48.53
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	422474	50.0000	50.23
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	310424	50.0000	50.34
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	246999	50.0000	56.05
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	274165	50.0000	51.32
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	233478	50.0000	60.16
	59 Chlorobenzene	112	7.690	7.690	(1.003)	759842	50.0000	50.30
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	292937	50.0000	52.10
	61 Ethylbenzene	106	7.795	7.795	(1.017)	391689	50.0000	55.04
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	989849	100.000	107.90
	63 o-Xylene	106	8.241	8.241	(1.075)	473677	50.0000	52.31
	64 Styrene	104	8.256	8.256	(1.077)	817256	50.0000	53.85
	66 Bromoform	173	8.410	8.410	(1.097)	213609	50.0000	50.00
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1231417	50.0000	59.53
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	324657	50.0000	45.86
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	365300	50.0000	51.32
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	444120	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	268401	50.0000	54.31(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	85534	50.0000	51.42
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1446247	50.0000	58.78
	74 Bromobenzene	156	8.803	8.803	(0.911)	367251	50.0000	50.40
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1055546	50.0000	58.08

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	879877	50.0000	54.50
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1027850	50.0000	55.85

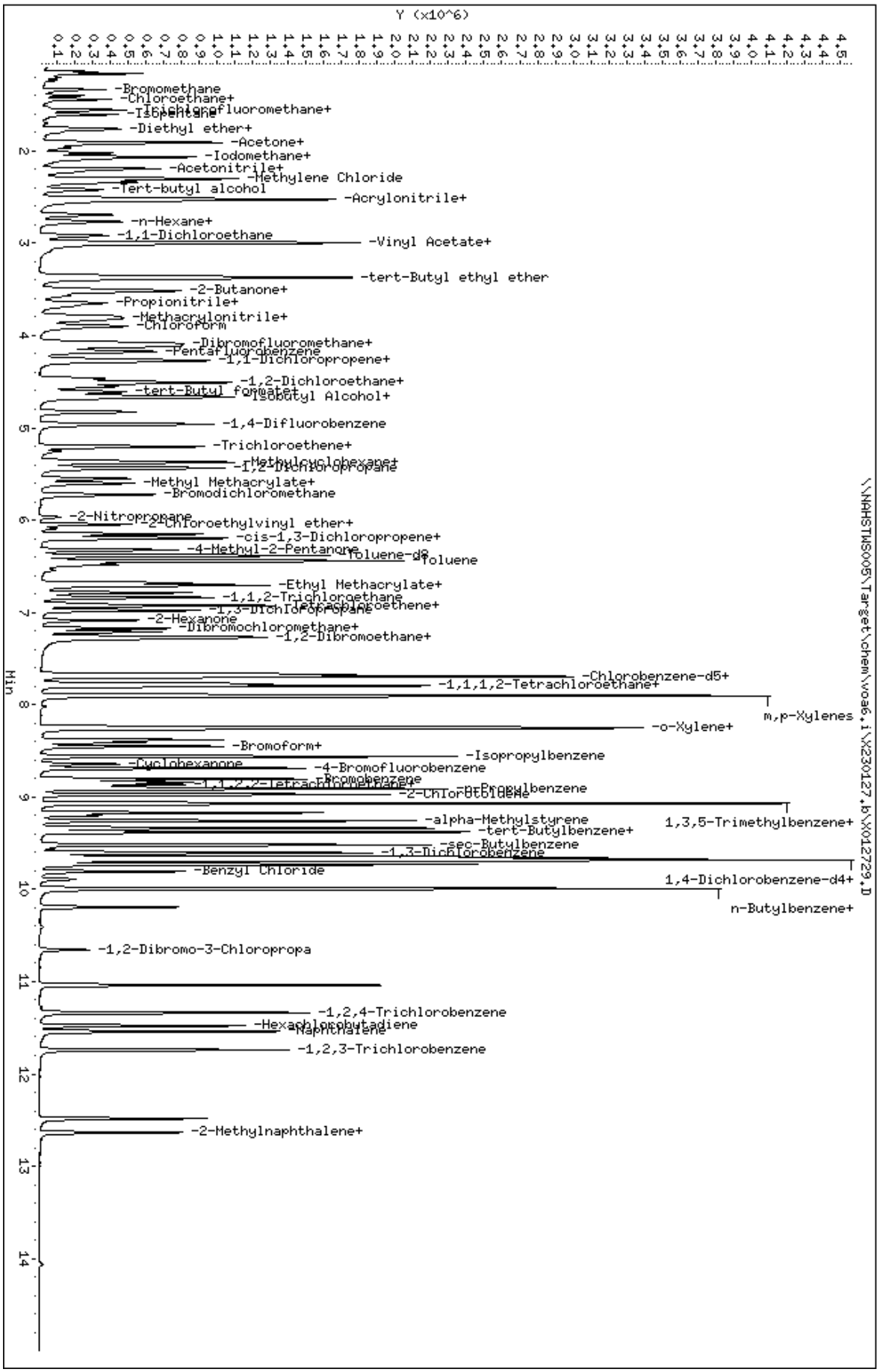
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	893644	50.0000	60.07
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1070362	50.0000	55.97
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1244360	50.0000	62.86
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1102022	50.0000	62.13
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	645175	50.0000	53.34
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	677366	50.0000	51.32
86	Benzyl Chloride	91	9.808	9.808	(1.279)	472324	50.0000	39.75
87	n-Butylbenzene	91	9.992	9.992	(1.034)	953525	50.0000	55.57
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	637972	50.0000	51.22
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	55349	50.0000	48.90
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	434862	50.0000	55.32
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	192807	50.0000	55.28
92	Naphthalene	128	11.540	11.540	(1.194)	901037	50.0000	50.38
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	390700	50.0000	51.89
146	Methyl acetate	43	2.224	2.224	(0.533)	128895	50.0000	55.38
138	Freon TF	101	1.913	1.913	(0.458)	202813	50.0000	53.42
141	Cyclohexane	56	4.117	4.117	(0.986)	325078	50.0000	62.04
142	Tetrahydrofuran	42	3.836	3.836	(0.918)	62653	100.000	97.36
147	Methylcyclohexane	55	5.373	5.373	(1.083)	558070	50.0000	56.77
135	1,4-Dioxane	88	5.598	5.598	(1.340)	50180	1000.00	1061.40
132	n-Butanol	56	5.253	5.253	(1.258)	63569	1000.00	964.45
131	Methyl Acrylate	55	3.683	3.683	(0.882)	204578	50.0000	58.26
133	Ethyl Acrylate	55	5.373	5.373	(1.286)	558070	50.0000	54.88
136	n-Hexane	57	2.768	2.768	(0.663)	222590	50.0000	59.77
139	Diethyl ether	59	1.752	1.752	(0.419)	149958	50.0000	43.39
148	Tert-butyl alcohol	59	2.419	2.419	(0.579)	395304	1000.00	1103.82
149	Isopropyl alcohol	45	2.086	2.086	(0.499)	212868	1000.00	1138.16
156	Diisopropyl ether	45	2.993	2.993	(0.716)	692307	50.0000	51.60
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	338810	50.0000	39.32
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1106964	50.0000	51.75
167	Ethanol	45	1.700	1.700	(0.407)	32718	1000.00	970.99
172	tert-Butyl formate	59	4.612	4.612	(1.104)	296339	100.000	107.98
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	345871	1000.00	948.74
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	745704	50.0000	50.01
175	tert-Butyl ethyl ether	59	3.371	3.371	(0.807)	731347	50.0000	51.30
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	296339	1000.00	1066.85
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	737793	1000.00	970.77
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	338810	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	157232	50.0000	44.29
152	Amyl alcohol	42	6.899	6.899	(0.900)	73181	1000.00	960.46
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	30069	50.0000	44.90
159	Propylene oxide	43	1.752	1.752	(0.419)	29679	100.000	91.25
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	75329	1000.00	988.84
162	Butyl acrylate	55	8.248	8.248	(1.076)	512724	50.0000	50.94
182	Epichlorohydrin	57	6.093	6.093	(1.228)	72227	200.000	200.83
M 94	1,2-Dichloroethylene (total)	96				508351	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	505330	50.0000	51.35
130	Ethyl Acetate	43	3.645	3.645	(0.873)	219670	50.0000	54.43
134	Cyclohexanone	55	8.642	8.642	(0.894)	144975	1000.00	782.54
185	Isoprene	39	1.767	1.767	(0.423)	72681	50.0000	52.75
186	Isopentane	42	1.606	1.606	(0.384)	119187	50.0000	(a)
188	Isopropyl acetate	43	4.672	4.672	(0.942)	649617	50.0000	52.07

187 n-Amyl acetate	43	8.451	8.451 (1.102)	435637	50.0000	48.48
189 n-Butyl acetate	43	7.210	7.210 (0.940)	360399	50.0000	54.45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	222590	1000.00	1170.92
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	470332	50.0000	45.91
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	529933	50.0000	50.81
168 1-Propanol	59	2.997	2.997	(0.717)	83454	1000.00	987.36

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230127.b\X012729.D
Date : 27-JAN-2023 17:39
Client ID:
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

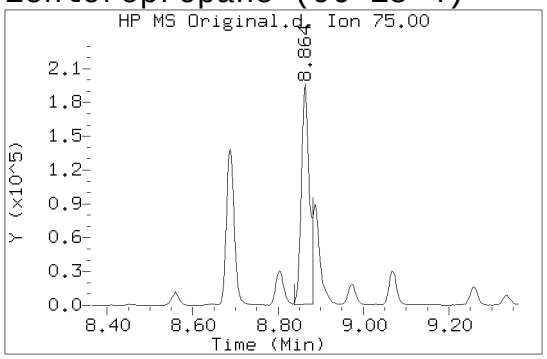
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012729.D
Inj Date : 27-JAN-2023 17:39
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

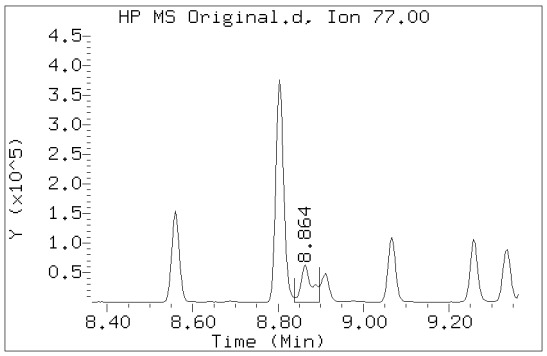
BEFORE

MASS
75
AREA
268401
HEIGHT
195703
09-Feb-2023
15:36
Kori
Bagsby



BEFORE

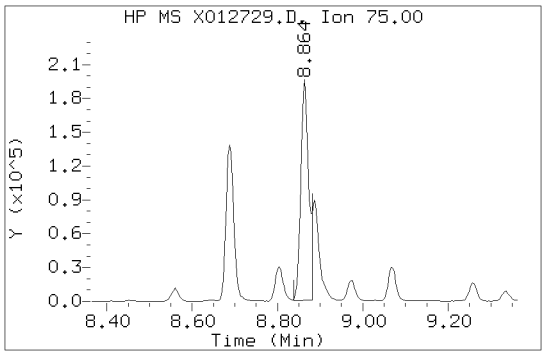
MASS
77
AREA
117910
HEIGHT
62879
09-Feb-2023
15:36
Kori
Bagsby



Reason Code:

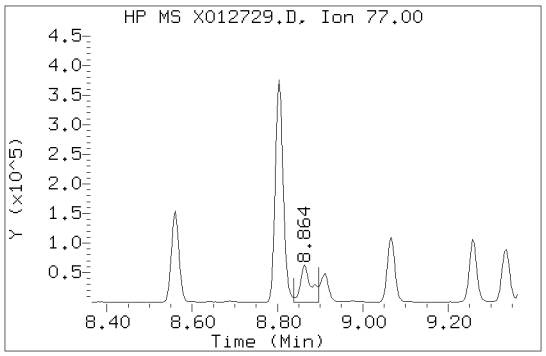
AFTER

MASS
75
AREA
268401
HEIGHT
195703
13-Feb-2023
13:49
Kori
Bags



AFTER

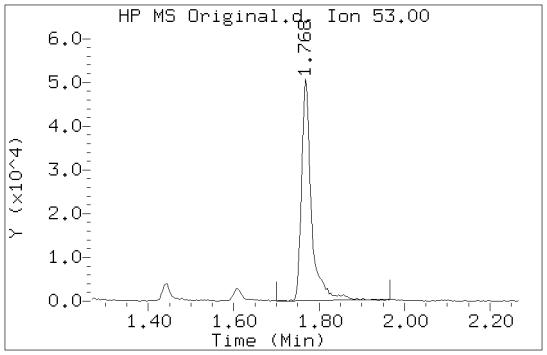
MASS
77
AREA
117910
HEIGHT
62879
13-Feb-2023
13:49
Kori
Bags



Chloroprene (126-99-8)

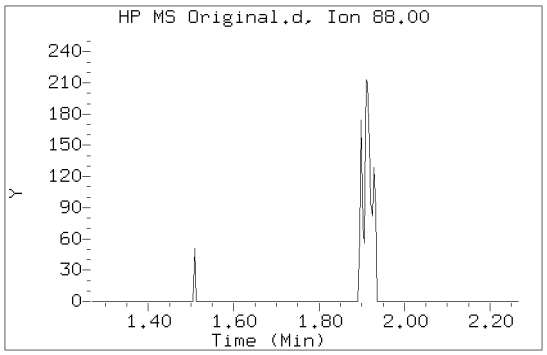
BEFORE

MASS
53
AREA
83317
HEIGHT
50667
09-Feb-2023
15:36
Kori
Bagsby



BEFORE

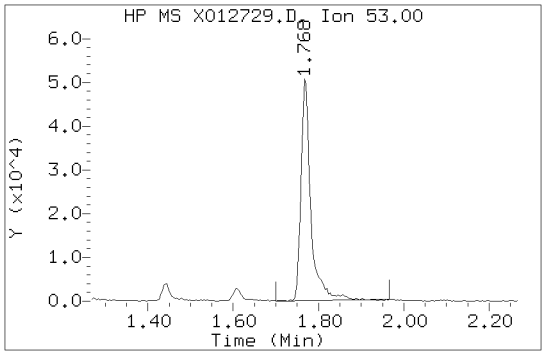
MASS
88
AREA
0
HEIGHT
0
09-Feb-2023
15:36
Kori
Bagsby



Reason Code:

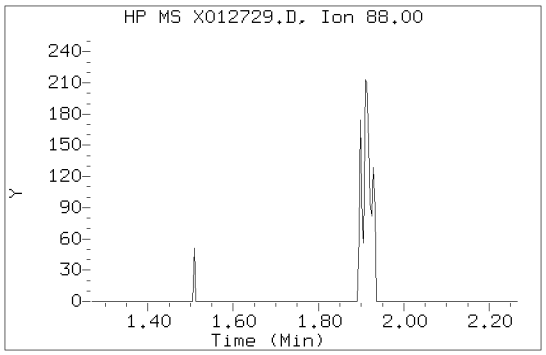
AFTER

MASS
53
AREA
83317
HEIGHT
50667
13-Feb-2023
13:49
Kori
Bags



AFTER

MASS
88
AREA
0
HEIGHT
0
13-Feb-2023
13:49
Kori
Bags



HS23011136-GCSEMI-RSK-175

ALS WO# HS23011136

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Form 1

Organic Analysis Data Sheet

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

HS23011136-01	Collected	Received	Matrix	Basis
16WW58-230123	01/23/23 08:50	01/24/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	01/30/23 10:22	FID-4_427362	007
Ethene	mg/L	0.00100	U	0.000234	0.00100	0.00100	1	01/30/23 10:22	FID-4_427362	007
Methane	mg/L	0.00747		0.000107	0.000500	0.000500	1	01/30/23 10:22	FID-4_427362	007

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

HS23011136-02	Collected	Received	Matrix	Basis
16WW57-230123	01/23/23 09:40	01/24/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	01/30/23 10:48	FID-4_427362	008
Ethene	mg/L	0.00110		0.000234	0.00100	0.00100	1	01/30/23 10:48	FID-4_427362	008
Methane	mg/L	0.00335		0.000107	0.000500	0.000500	1	01/30/23 10:48	FID-4_427362	008

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

HS23011136-03		Collected	Received	Matrix	Basis
16IW26-230123		01/23/23 10:40	01/24/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	01/30/23 10:55	FID-4_427362	009
Ethene	mg/L	0.0523		0.000234	0.00100	0.00100	1	01/30/23 10:55	FID-4_427362	009
Methane	mg/L	5.78		0.0428	0.200	0.200	400	01/30/23 11:55	FID-4_427362	016

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

HS23011136-04	Collected	Received	Matrix	Basis
16IW10-230123	01/23/23 11:35	01/24/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	01/30/23 11:20	FID-4_427362	012
Ethene	mg/L	0.00100	U	0.000234	0.00100	0.00100	1	01/30/23 11:20	FID-4_427362	012
Methane	mg/L	5.35		0.0428	0.200	0.200	400	01/30/23 12:08	FID-4_427362	017

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

HS23011136-05		Collected	Received	Matrix	Basis
16IW03-230123		01/23/23 12:35	01/24/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	01/30/23 11:03	FID-4_427362	010
Ethene	mg/L	0.816		0.0468	0.200	0.200	200	01/30/23 12:16	FID-4_427362	018
Methane	mg/L	4.28		0.0214	0.100	0.100	200	01/30/23 12:16	FID-4_427362	018

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

HS23011136-06		Collected	Received	Matrix	Basis
16IW03-230123-FD		01/23/23 12:35	01/24/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	01/30/23 11:46	FID-4_427362	015
Ethene	mg/L	1.59		0.0936	0.400	0.400	400	01/30/23 12:26	FID-4_427362	019
Methane	mg/L	5.08		0.0428	0.200	0.200	400	01/30/23 12:26	FID-4_427362	019

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

MBLK-230130

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

MBLK-230130

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	mg/L	0.00100	U	0.000144	0.00100	0.00100	1	01/30/23 09:35	FID-4_427362	002
Ethene	mg/L	0.00100	U	0.000234	0.00100	0.00100	1	01/30/23 09:35	FID-4_427362	002
Methane	mg/L	0.000500	U	0.000107	0.000500	0.000500	1	01/30/23 09:35	FID-4_427362	002

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

16IW10-230123		HS23011136-04		HS23011136-04MS				HS23011136-04MSD						
Sample Matrix	Aqueous	**Run Date**	01/30/23	01/30/23				01/30/23						
Units	ug/L	**Run Time**	11:20	11:28				11:37						
		Data File	012.D	013.D				014.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Ethane	75-125	1	0	31.59	18.04	175	*	29.48	18.04	163	*	30	6.90	
Ethene	75-125	1	0	47.29	16.80	282	*	41	16.80	244	*	30	14.3	
Methane	75-125	1	5190	4867	9.647	-	*	4812	9.647	-3910	*	30	1.10	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

ALS Environmental–Houston Laboratory
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Form 3B - Laboratory Control Sample Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

FID-4_427362			QC ID	LCS-230130			
QC Matrix	Aqueous	Units	Run Date	01/30/23			
		mg/L	Run Time	09:43			
Analyte		%R Limits	Spike Added	LCS Result	%R	Q	
Ethane		75-125	0.01804	0.0194	107		
Ethene		75-125	0.0168	0.0171	102		
Methane		75-125	0.009647	0.00938	97		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-230130	002.D	01/30/23 09:35	FID-4_427362
LCS-230130	LCS	LCS-230130	003.D	01/30/23 09:43	FID-4_427362
16WW58-230123	SAMP	HS23011136-01	007.D	01/30/23 10:22	FID-4_427362
16WW57-230123	SAMP	HS23011136-02	008.D	01/30/23 10:48	FID-4_427362
16IW26-230123	SAMP	HS23011136-03	009.D	01/30/23 10:55	FID-4_427362
16IW03-230123	SAMP	HS23011136-05	010.D	01/30/23 11:03	FID-4_427362
16IW10-230123	SAMP	HS23011136-04	012.D	01/30/23 11:20	FID-4_427362
16IW10-230123	MS	HS23011136-04MS	013.D	01/30/23 11:28	FID-4_427362
16IW10-230123	MSD	HS23011136-04MSD	014.D	01/30/23 11:37	FID-4_427362
16IW03-230123-FD	SAMP	HS23011136-06	015.D	01/30/23 11:46	FID-4_427362
16IW26-230123	SAMP	HS23011136-03	016.D	01/30/23 11:55	FID-4_427362
16IW10-230123	SAMP	HS23011136-04	017.D	01/30/23 12:08	FID-4_427362
16IW03-230123	SAMP	HS23011136-05	018.D	01/30/23 12:16	FID-4_427362
16IW03-230123-FD	SAMP	HS23011136-06	019.D	01/30/23 12:26	FID-4_427362

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Form 6

Initial Calibration Data

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

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Phone (281) 530-5656 Fax (281) 530-5887
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Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011136

RunID FID-4_322102

Semi-Volatiles by RSK-175

ICAL Start Date 24-JAN-2017 0906
ICAL End Date 24-JAN-2017 1113

Calibration Files

Calibration File Names

Level 1 ..FID-4.i\170124.b\001.D
Level 2 ..FID-4.i\170124.b\002.D
Level 3 ..FID-4.i\170124.b\003.D
Level 4 ..FID-4.i\170124.b\004.D
Level 5 ..FID-4.i\170124.b\005.D
Level 6 ..FID-4.i\170124.b\006.D
Level 7 ..FID-4.i\170124.b\007.D

Compound	Level 1 10.00 Level 7 1000.0	Level 2 25.00	Level 3 50.00	Level 4 100.00	Level 5 250.00	Level 6 500.00	Curve	b	m1	m2	%RSD or R^2	Q
Methane	969 1082	978	1020	881	961	931	AVRG		974		6.55041	
Ethene	536 829	567	565	516	665	426	AVRG		586		21.93197	
Ethane	602 999	670	659	597	809	818	AVRG		736		19.88517	
Propane	500 96509	1279	2602	4785	18294	38286	QUAD	0.97987	0.00153	-4.583e-00	0.99914	
N-Butane	438 114164	936	2034	3864	18446	42817	QUAD	2.46870	0.00183	-5.537e-00	0.99808	
Pentane	115 488	3945	2080	950	501	412	AVRG		1213		112	*

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder HS23011136

RunID FID-4_322102

Semi-Volatiles by RSK-175

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
Methane	9.647	9.597	99.49	75-125	
Ethene	16.800	19.090	113.63	75-125	
Ethane	18.043	19.657	108.95	75-125	
Propane	26.463	27.238	102.93	75-125	
N-Butane	34.955	36.010	103.02	75-125	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011136

RunID FID-4_427362

Semi-Volatiles by RSK-175

Instrument ID FID-4.i Injection Date 30-JAN-2023 0925
Lab File ID 001.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{RRF}$ / $\overline{RRF}$ / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	927	927	0.010	4.90924	20.0	Averaged	
Ethene	586	623	623	0.010	-6.38230	20.0	Averaged	
Ethane	719	810	810	0.010	-12.60421	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011136

RunID FID-4_427362

Semi-Volatiles by RSK-175

Instrument ID FID-4.i Injection Date 30-JAN-2023 1112
Lab File ID 011.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{RRF}$ / $\overline{RRF}$ / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	882	882	0.010	9.57660	20.0	Averaged	
Ethene	586	604	604	0.010	-3.09964	20.0	Averaged	
Ethane	719	839	839	0.010	-16.59443	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011136

RunID FID-4_427362

Semi-Volatiles by RSK-175

Instrument ID FID-4.i Injection Date 30-JAN-2023 1255
Lab File ID 022.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{RRF}$ / $\overline{RRF}$ / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	952	952	0.010	2.40014	20.0	Averaged	
Ethene	586	575	575	0.010	1.90539	20.0	Averaged	
Ethane	719	765	765	0.010	-6.28765	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011136

RunID FID-4_427362

Semi-Volatiles by RSK-175

Instrument ID FID-4.i Injection Date 30-JAN-2023 1430
Lab File ID 033.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{RRF}$ / $\overline{RRF}$ / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	900	900	0.010	7.73730	20.0	Averaged	
Ethene	586	615	615	0.010	-4.97400	20.0	Averaged	
Ethane	719	779	779	0.010	-8.33668	20.0	Averaged	

right solutions.
right partner.

Analysis Run Log

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

FID04 -Logbook

Batch: 26730 **Analyst:** Nosa Izekor

Date: 01-24-2017 **Reviewer:**

Method: RSK 175 ICAL **Laboratory:** Houston

Comments: Target Sequence 170124

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	ICAL1	CALIB_1	01-24-2017 09:06 am	1.00	0.00 mL	0.00 mL	001.D	Liquid	Y	NA
2	ICAL2	CALIB_2	01-24-2017 09:30 am	1.00	0.00 mL	0.00 mL	002.D	Liquid	Y	NA
3	ICAL3	CALIB_3	01-24-2017 09:59 am	1.00	0.00 mL	0.00 mL	003.D	Liquid	Y	NA
4	ICAL4	CALIB_4	01-24-2017 10:15 am	1.00	0.00 mL	0.00 mL	004.D	Liquid	Y	NA
5	ICAL5	CALIB_5	01-24-2017 10:39 am	1.00	0.00 mL	0.00 mL	005.D	Liquid	Y	NA
6	ICAL6	CALIB_6	01-24-2017 10:57 am	1.00	0.00 mL	0.00 mL	006.D	Liquid	Y	NA
7	ICAL7	CALIB_7	01-24-2017 11:13 am	1.00	0.00 mL	0.00 mL	007.D	Liquid	Y	NA
8	ICV	METHSPIKI	01-24-2017 12:05 pm	1.00	0.00 mL	0.00 mL	008.D	Liquid	Y	NA
9	LCS-170124	LCS	01-24-2017 12:24 pm	1.00	0.00 mL	0.00 mL	009.D	Liquid	Y	NA
10	LCSD-170124	LCSD	01-24-2017 12:40 pm	1.00	0.00 mL	0.00 mL	010.D	Liquid	Y	NA
11	MBLK-170124	MBLK	01-24-2017 12:57 pm	1.00	0.00 mL	0.00 mL	011.D	Liquid	Y	NA
12	HS17010778-01	SAMP	01-24-2017 01:14 pm	1.00	0.00 mL	0.00 mL	012.D	Liquid	Y	NA
13	HS17010779-01	SAMP	01-24-2017 01:31 pm	1.00	0.00 mL	0.00 mL	013.D	Liquid	Y	NA
14	HS17010779-01DUP	SAMP	01-24-2017 01:47 pm	1.00	0.00 mL	0.00 mL	014.D	Liquid	Y	NA
15	CCV	CCV	01-24-2017 02:01 pm	1.00	0.00 mL	0.00 mL	015.D	Liquid	Y	NA

Chemical	Value
ICAL STD ID	30010700217
ICV STD ID	30010700610

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011136

Semi-Volatiles by RSK-175

RUNID
FID-4_427362

Run ID FID-4_427362 **Start Date** 01/30/23 **EndDate** 01/30/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
RSK-CCV	CCV	RSK-CCV	001.D	01/30/23 09:25	1
MBLK-230130	MBLK	MBLK-230130	002.D	01/30/23 09:35	1
LCS-230130	LCS	LCS-230130	003.D	01/30/23 09:43	1
16WW58-230123	SAMP	HS23011136-01	007.D	01/30/23 10:22	1
16WW57-230123	SAMP	HS23011136-02	008.D	01/30/23 10:48	1
16IW26-230123	SAMP	HS23011136-03	009.D	01/30/23 10:55	1
16IW03-230123	SAMP	HS23011136-05	010.D	01/30/23 11:03	1
RSK-CCV	CCV	RSK-CCV	011.D	01/30/23 11:12	1
16IW10-230123	SAMP	HS23011136-04	012.D	01/30/23 11:20	1
16IW10-230123	MS	HS23011136-04MS	013.D	01/30/23 11:28	1
16IW10-230123	MSD	HS23011136-04MSD	014.D	01/30/23 11:37	1
16IW03-230123-FD	SAMP	HS23011136-06	015.D	01/30/23 11:46	1
16IW26-230123	SAMP	HS23011136-03	016.D	01/30/23 11:55	400
16IW10-230123	SAMP	HS23011136-04	017.D	01/30/23 12:08	400
16IW03-230123	SAMP	HS23011136-05	018.D	01/30/23 12:16	200
16IW03-230123-FD	SAMP	HS23011136-06	019.D	01/30/23 12:26	400
RSK-CCV	CCV	RSK-CCV	022.D	01/30/23 12:55	1
RSK-CCV	CCV	RSK-CCV	033.D	01/30/23 14:30	1

right solutions.
right partner.

Raw Data FID-4 322102

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 24-JAN-2017 09:06
Operator : JA Inst ID: FID-4.i
Smp Info : ICAL1;ICAL1;;;
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	374	0.38600	0.383(a)
2 Ethene	1.553	1.553	0.000	361	0.67400	0.615(a)
3 Ethane	1.716	1.716	0.000	435	0.72200	0.590(a)
4 Propane	4.073	4.073	0.000	500	1.05900	1.743
5 N-Butane	7.640	7.640	0.000	438	1.39800	3.271

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D

Date : 24-JAN-2017 09:06

Client ID: ICAL1

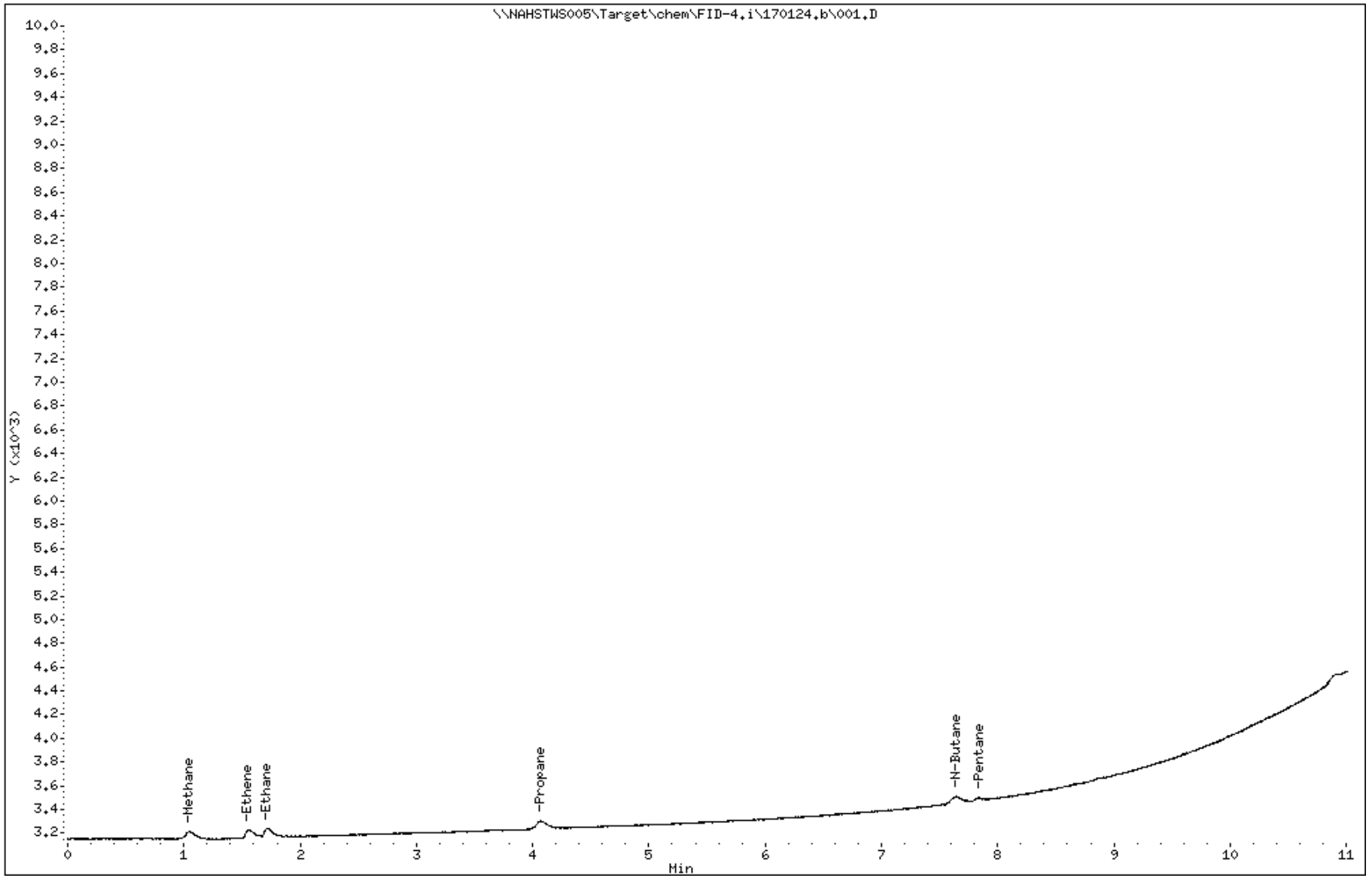
Instrument: FID-4.i

Sample Info: ICAL1;ICAL1;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Inj Date : 24-JAN-2017 09:06
InstruID : FID-4.i
LabSampID : ICAL1

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 24-JAN-2017 09:30
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL2;ICAL2;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:06 Cal File: 001.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	944	0.96500	0.968
2 Ethene	1.560	1.560	0.000	956	1.68500	1.630
3 Ethane	1.723	1.723	0.000	1209	1.80400	1.641
4 Propane	4.123	4.123	0.000	1279	2.64600	2.927
5 N-Butane	7.716	7.716	0.000	936	3.49600	4.180

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D

Date : 24-JAN-2017 09:30

Client ID: ICAL2

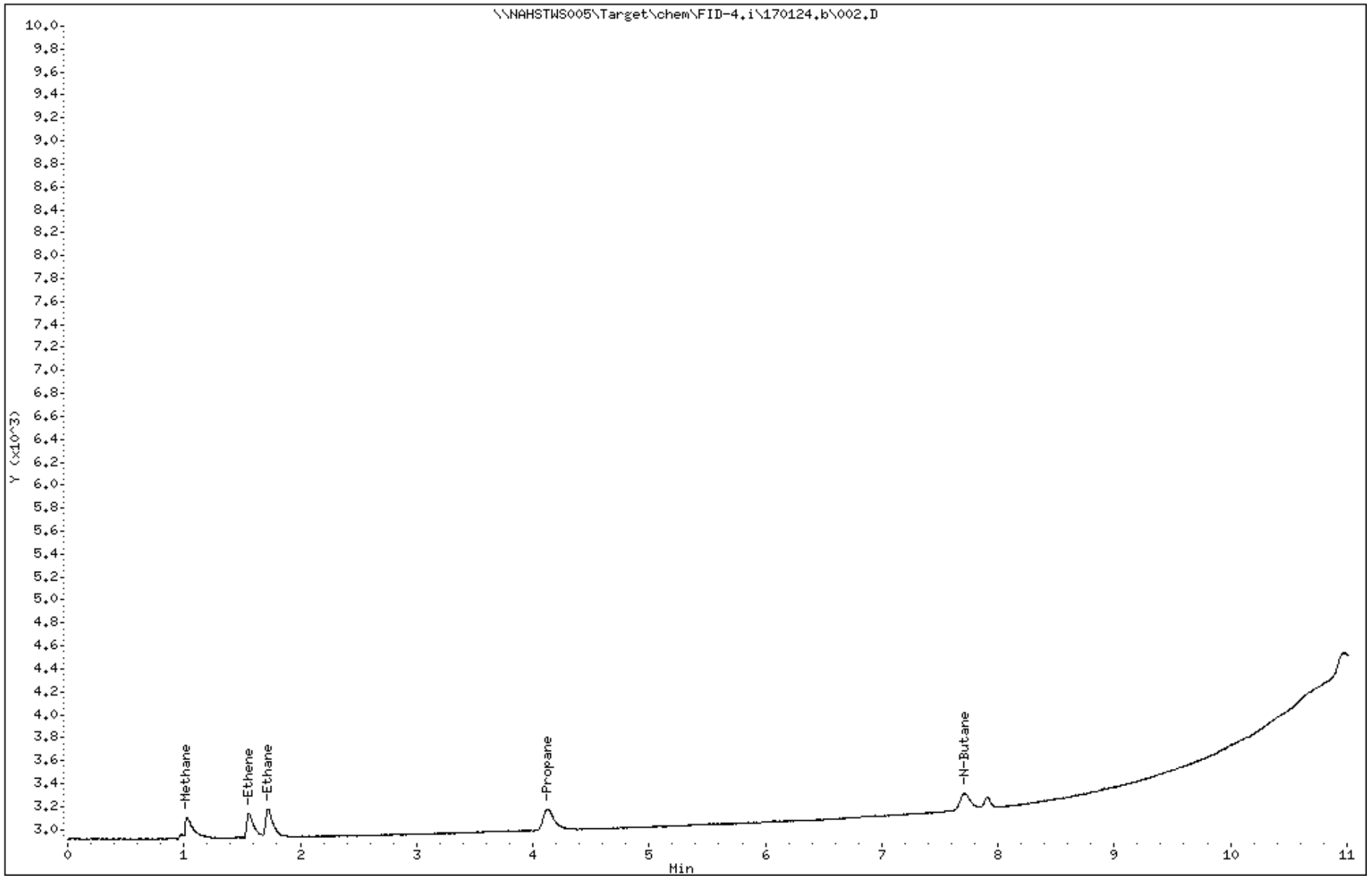
Instrument: FID-4.i

Sample Info: ICAL2;ICAL2;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Inj Date : 24-JAN-2017 09:30
InstruID : FID-4.i
LabSampID : ICAL2

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 24-JAN-2017 09:59
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL3;ICAL3;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 09:30 Cal File: 002.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	1967	1.92900	2.018
2 Ethene	1.570	1.570	0.000	1904	3.37000	3.247
3 Ethane	1.736	1.736	0.000	2378	3.60900	3.229
4 Propane	4.123	4.123	0.000	2602	5.29300	4.926
5 N-Butane	7.703	7.703	0.000	2034	6.99100	6.176

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D

Date : 24-JAN-2017 09:59

Client ID: ICAL3

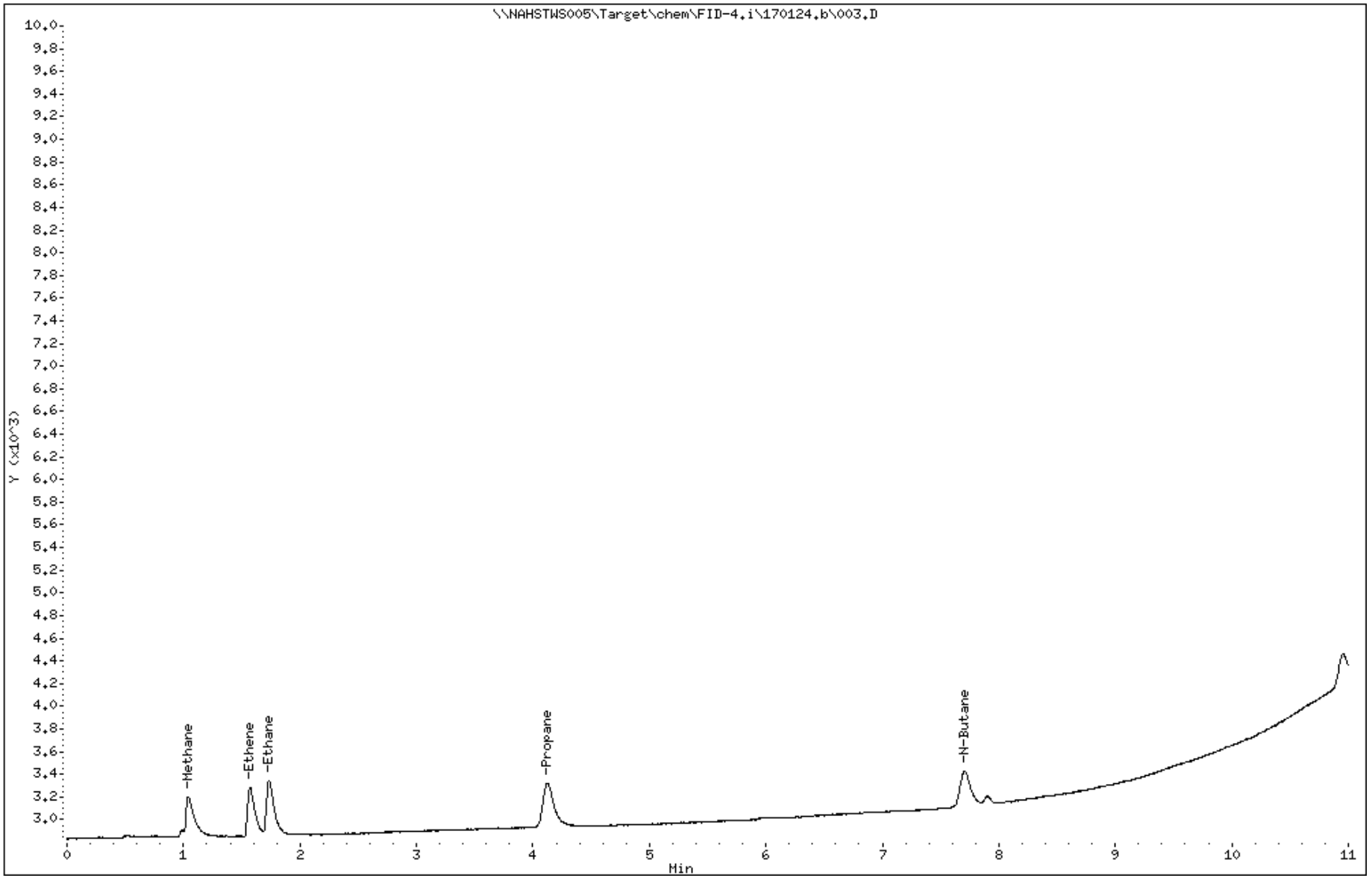
Instrument: FID-4.i

Sample Info: ICAL3;ICAL3;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Inj Date : 24-JAN-2017 09:59
InstruID : FID-4.i
LabSampID : ICAL3

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D Page 1
Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 24-JAN-2017 10:15
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL4;ICAL4;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.033	1.033	0.000	3399	3.85900	3.488
2 Ethene	1.563	1.563	0.000	3478	6.74000	5.932
3 Ethane	1.726	1.726	0.000	4310	7.21700	5.853
4 Propane	4.120	4.120	0.000	4785	10.5850	8.190
5 N-Butane	7.703	7.703	0.000	3864	13.9820	9.473(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D

Date : 24-JAN-2017 10:15

Client ID: ICAL4

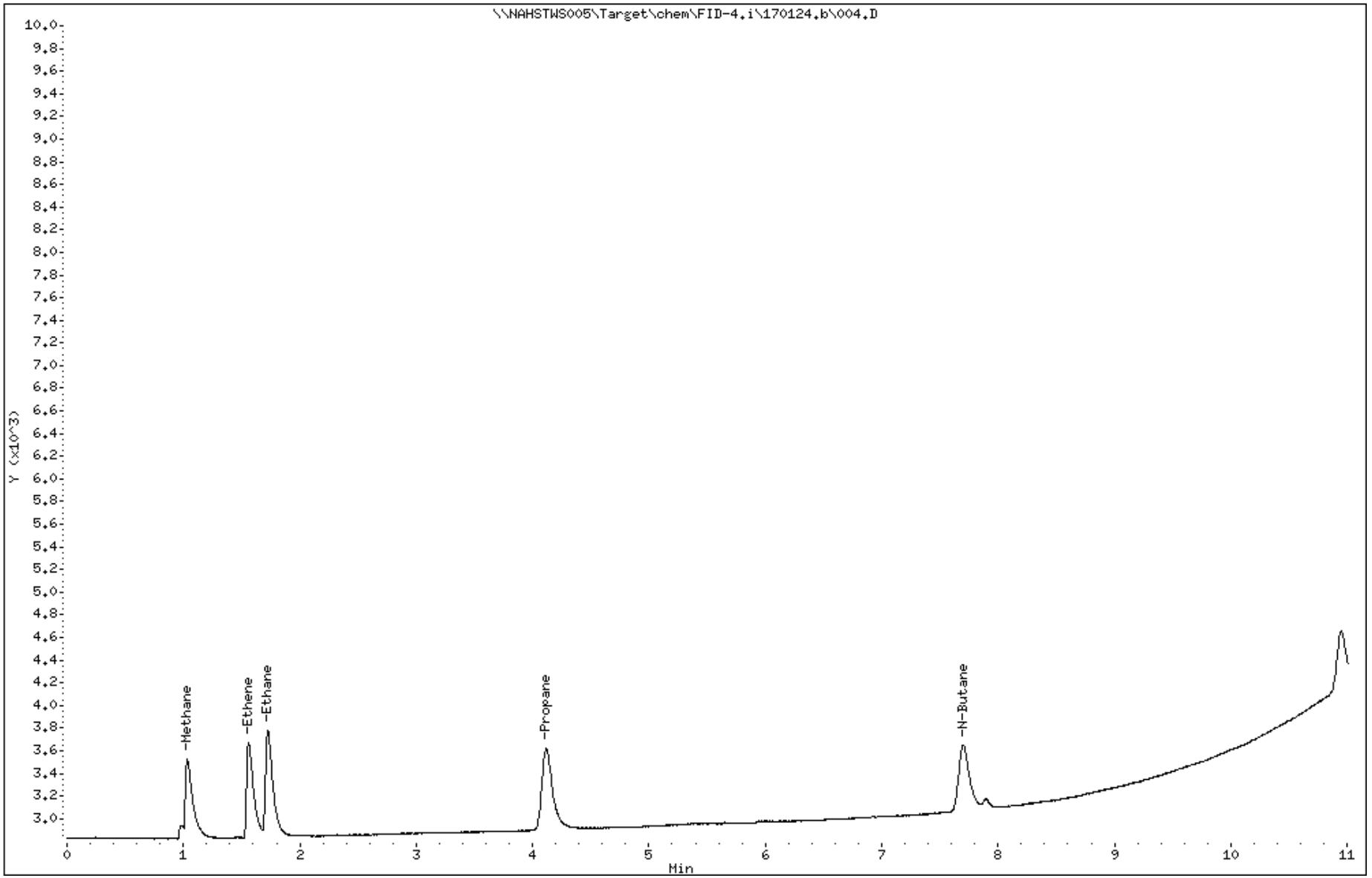
Instrument: FID-4.i

Sample Info: ICAL4;ICAL4;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



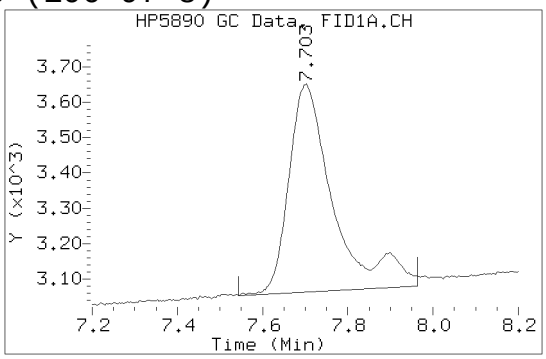
Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Inj Date : 24-JAN-2017 10:15
InstruID : FID-4.i
LabSampID : ICAL4

N-Butane (106-97-8)

Reason Code:

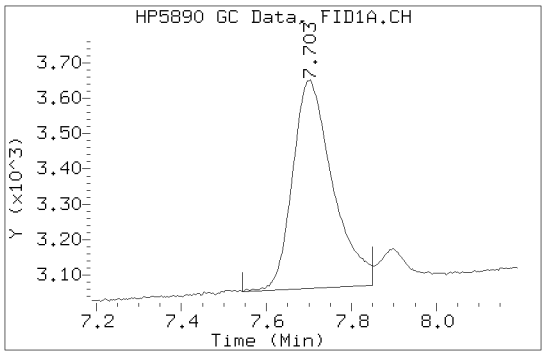
BEFORE

MASS
100
AREA
4292
HEIGHT
591
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
3864
HEIGHT
591
28-Sep-2022
10:02
linh
pham



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 24-JAN-2017 10:39
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL5;ICAL5;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

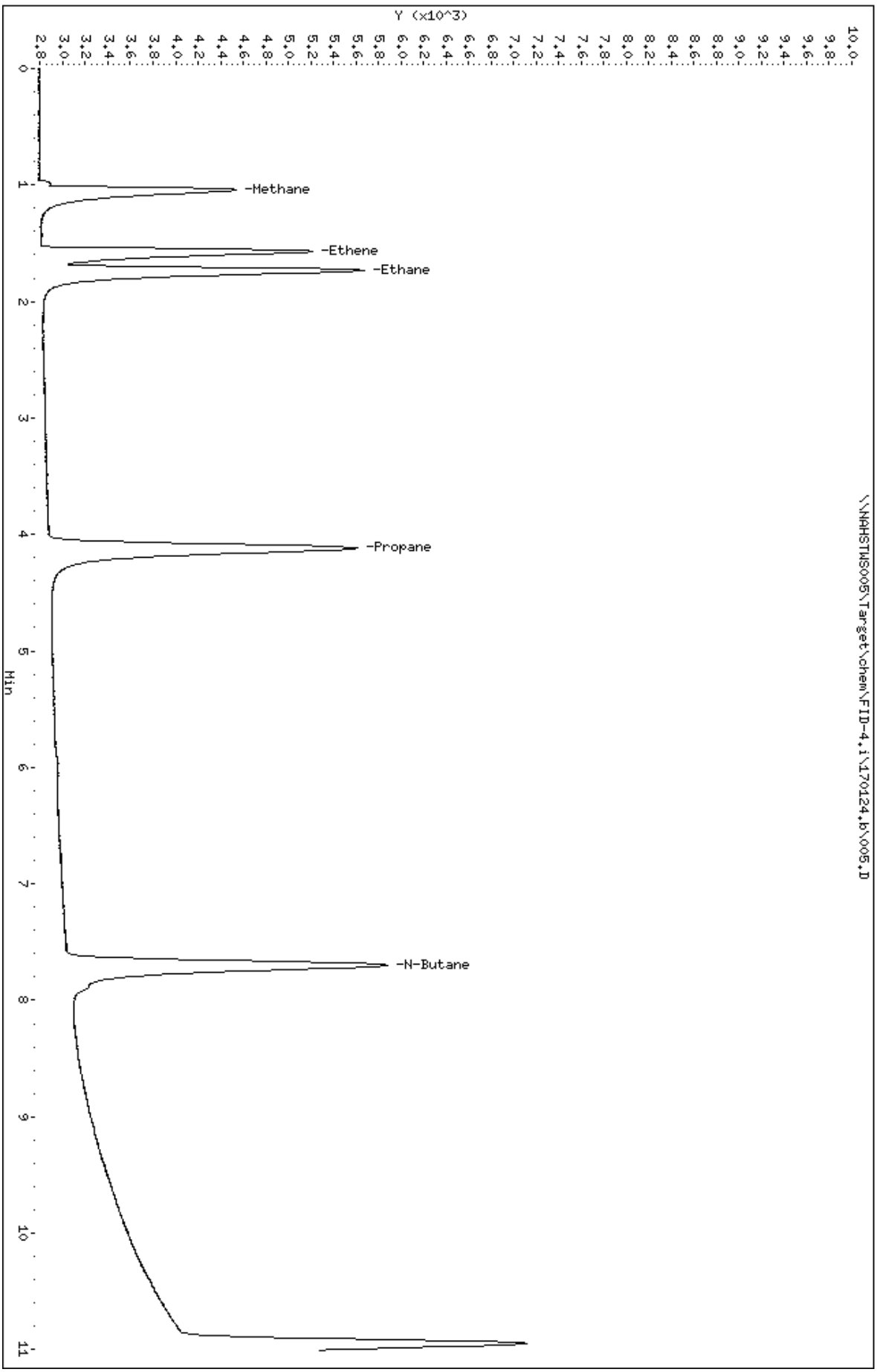
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.043	1.043	0.000	9268	9.64700	9.511
2 Ethene	1.570	1.570	0.000	11210	16.8500	19.121
3 Ethane	1.733	1.733	0.000	14588	18.0430	19.811
4 Propane	4.120	4.120	0.000	18294	26.4630	27.415
5 N-Butane	7.700	7.700	0.000	18446	34.9550	34.419(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Date : 24-JAN-2017 10:39
Client ID: ICAL5
Sample Info: ICAL5;ICAL5;;;
Column phase: Rtx-PLOT

Instrument: FID-4.i
Operator: MA
Column diameter: 0.53



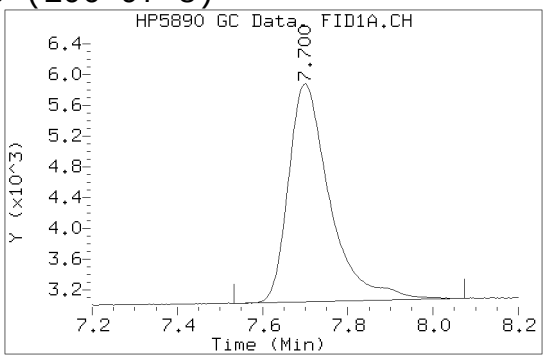
Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Inj Date : 24-JAN-2017 10:39
InstruID : FID-4.i
LabSampID : ICAL5

N-Butane (106-97-8)

Reason Code:

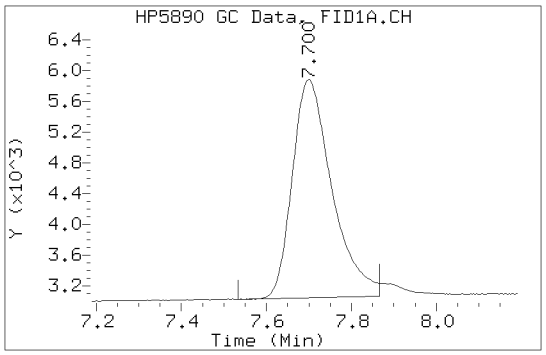
BEFORE

MASS
100
AREA
19142
HEIGHT
2839
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
18446
HEIGHT
2838
28-Sep-2022
10:02
linh
pham



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 24-JAN-2017 10:57
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL6;ICAL6;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:39 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.023	1.023	0.000	17957	19.2940	18.429
2 Ethene	1.550	1.550	0.000	22910	53.8200	39.078
3 Ethane	1.716	1.716	0.000	29505	36.0860	40.070
4 Propane	4.110	4.110	0.000	38286	52.9260	52.796
5 N-Butane	7.696	7.696	0.000	42817	69.9110	70.855

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D

Date : 24-JAN-2017 10:57

Client ID: ICAL6

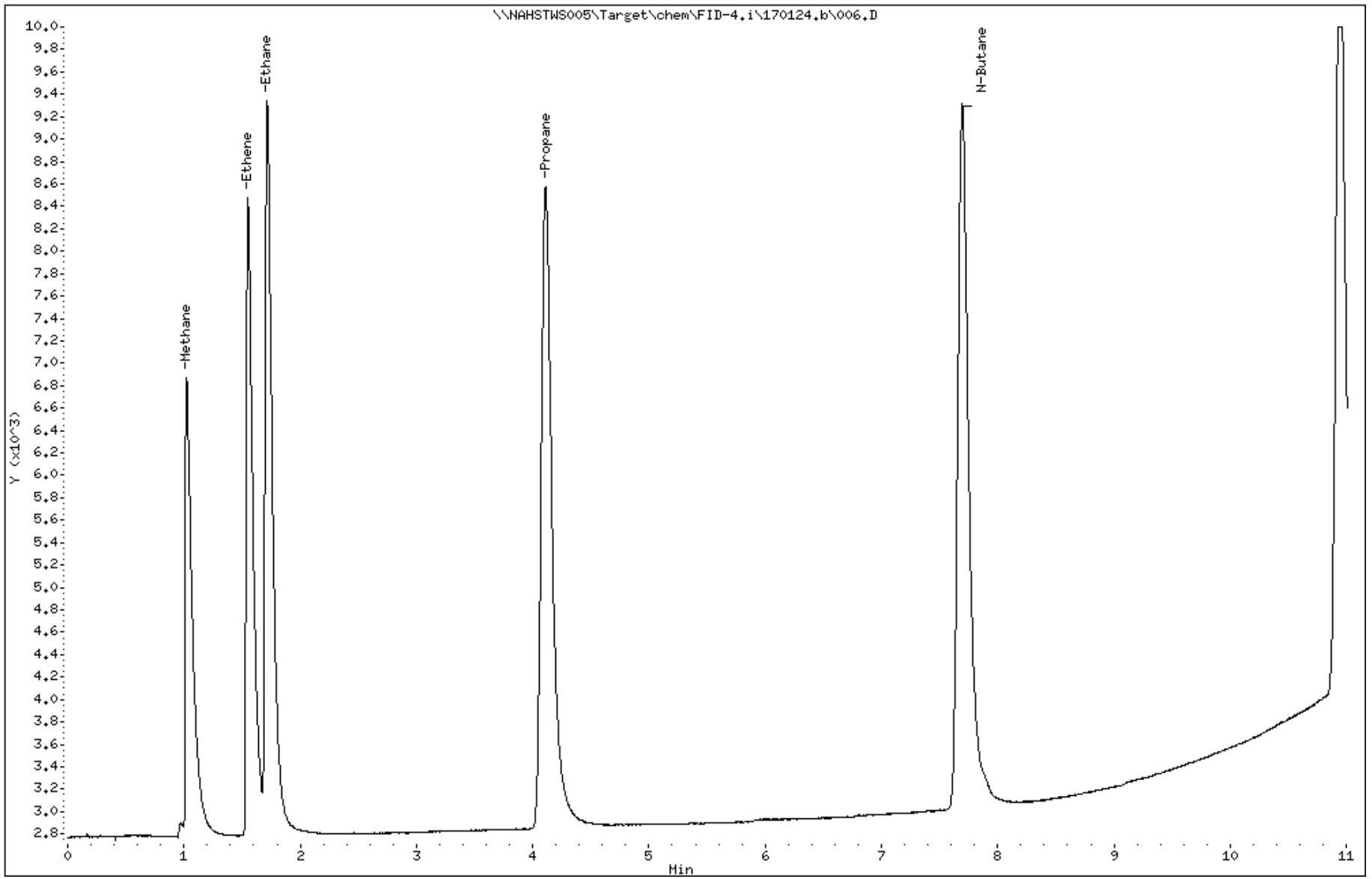
Instrument: FID-4.i

Sample Info: ICAL6;ICAL6;;;

Operator: MA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Inj Date : 24-JAN-2017 10:57
InstruID : FID-4.i
LabSampID : ICAL6

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D Page 1
Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Lab Smp Id: ICAL7 Client Smp ID: ICAL7
Inj Date : 24-JAN-2017 11:13
Operator : MA Inst ID: FID-4.i
Smp Info : ICAL7;ICAL7;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 10:57 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

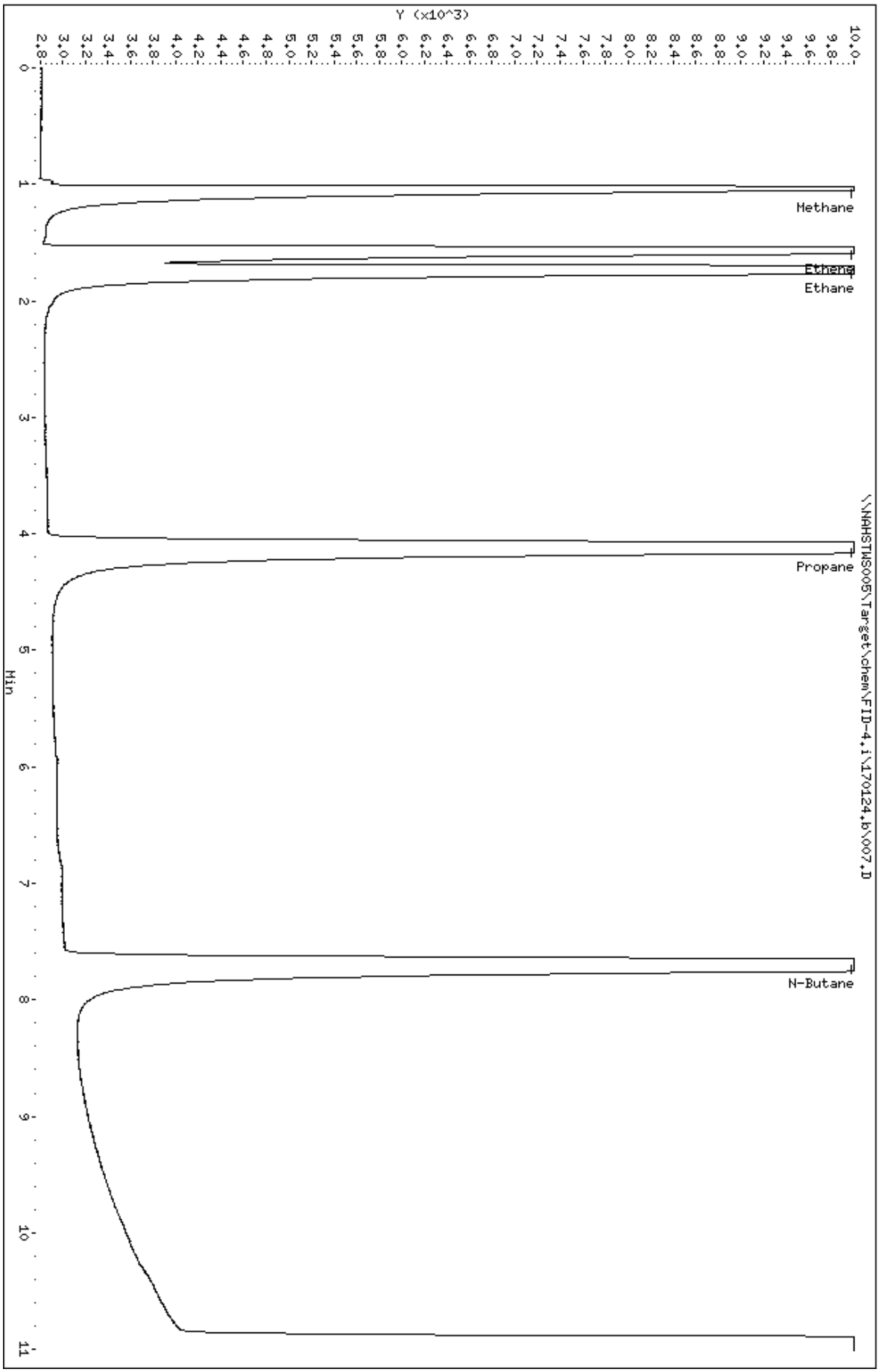
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Methane	1.030	1.030	0.000	41736	38.5880	42.833(A)
2 Ethene	1.556	1.556	0.000	55865	67.4000	95.291(A)
3 Ethane	1.723	1.723	0.000	72124	72.1720	97.951(A)
4 Propane	4.113	4.113	0.000	96509	105.852	105.844
5 N-Butane	7.690	7.690	0.000	114164	139.821	139.707

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Date : 24-JAN-2017 11:13
Client ID: ICAL7
Sample Info: ICAL7;ICAL7;;;
Column phase: Rtx-PLOT

Instrument: FID-4.i
Operator: MA
Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Inj Date : 24-JAN-2017 11:13
InstruID : FID-4.i
LabSampID : ICAL7

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

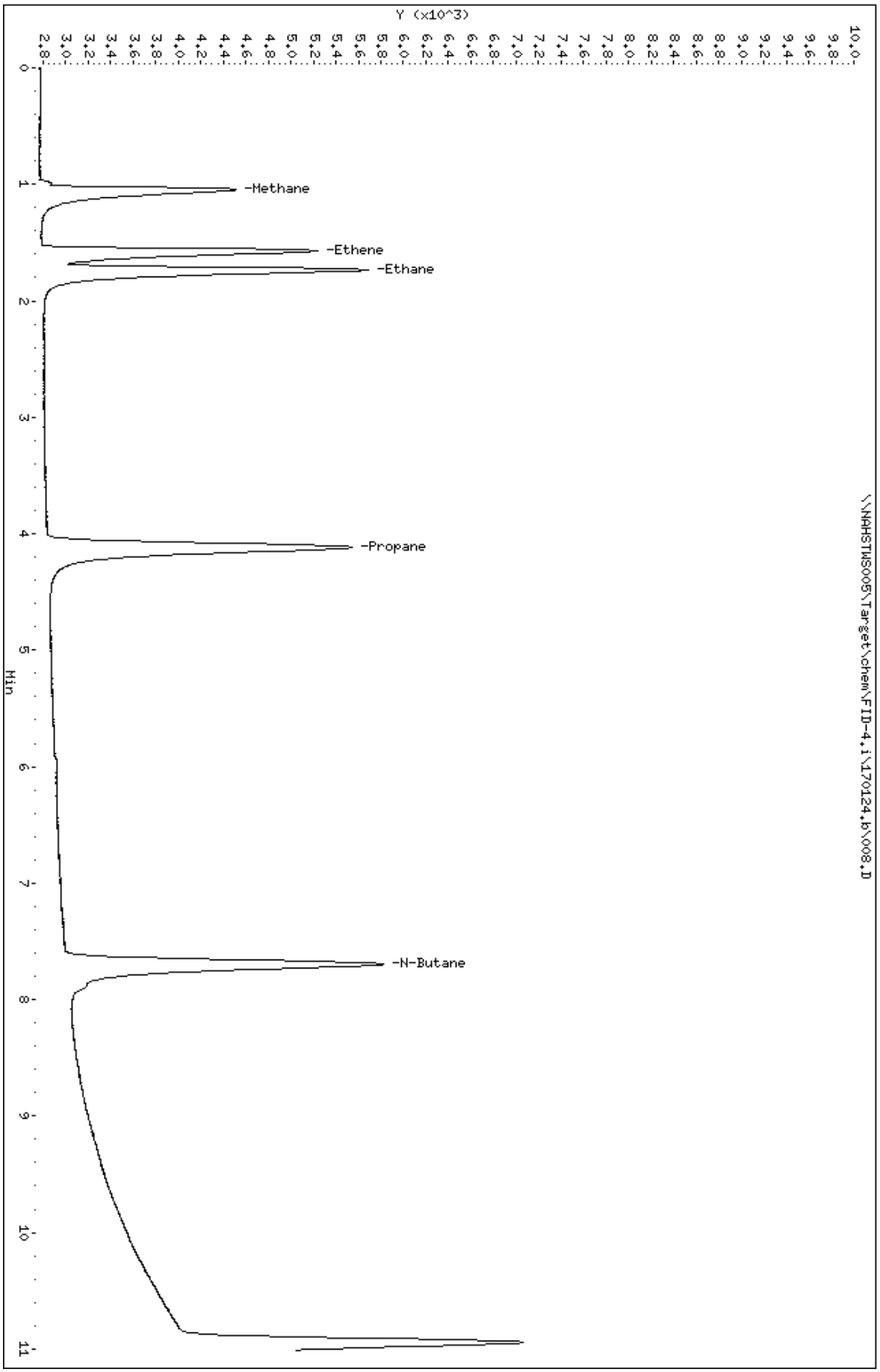
Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 24-JAN-2017 12:05
Operator : MA Inst ID: FID-4.i
Smp Info : ICV;ICV;;;
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNIP2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	1.046	1.030	0.016	9352	9.59792	9.597
2 Ethene	1.573	1.556	0.017	11192	19.0906	19.090
3 Ethane	1.736	1.723	0.013	14474	19.6571	19.657
4 Propane	4.116	4.113	0.003	18164	27.2381	27.238
5 N-Butane	7.696	7.690	0.006	19425	36.0103	36.010

Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Date : 24-JAN-2017 12:05
Client ID: ICV
Sample Info: ICV;ICV;;;
Column phase: Rtx-PLOT

Instrument: FID-4.i
Operator: MA
Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Inj Date : 24-JAN-2017 12:05
InstruID : FID-4.i
LabSampID : ICV

NO MANUAL INTEGRATIONS

right solutions.
right partner.

Raw Data FID-4 427362

Semi-Volatiles by RSK-175

Workorder

HS23011136

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230130.b\001.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 30-JAN-2023 09:25
Operator : JA Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.430	0.000	8944	9.64700	9.173
2 Ethene	0.650	0.650	0.000	10500	16.8500	17.925
3 Ethane	0.720	0.720	0.000	14618	18.0430	20.317

Data File: \\nahstws005\Target\chem\FID-4.i\230130.b\001.D

Date : 30-JAN-2023 09:25

Client ID: RSK-CCV

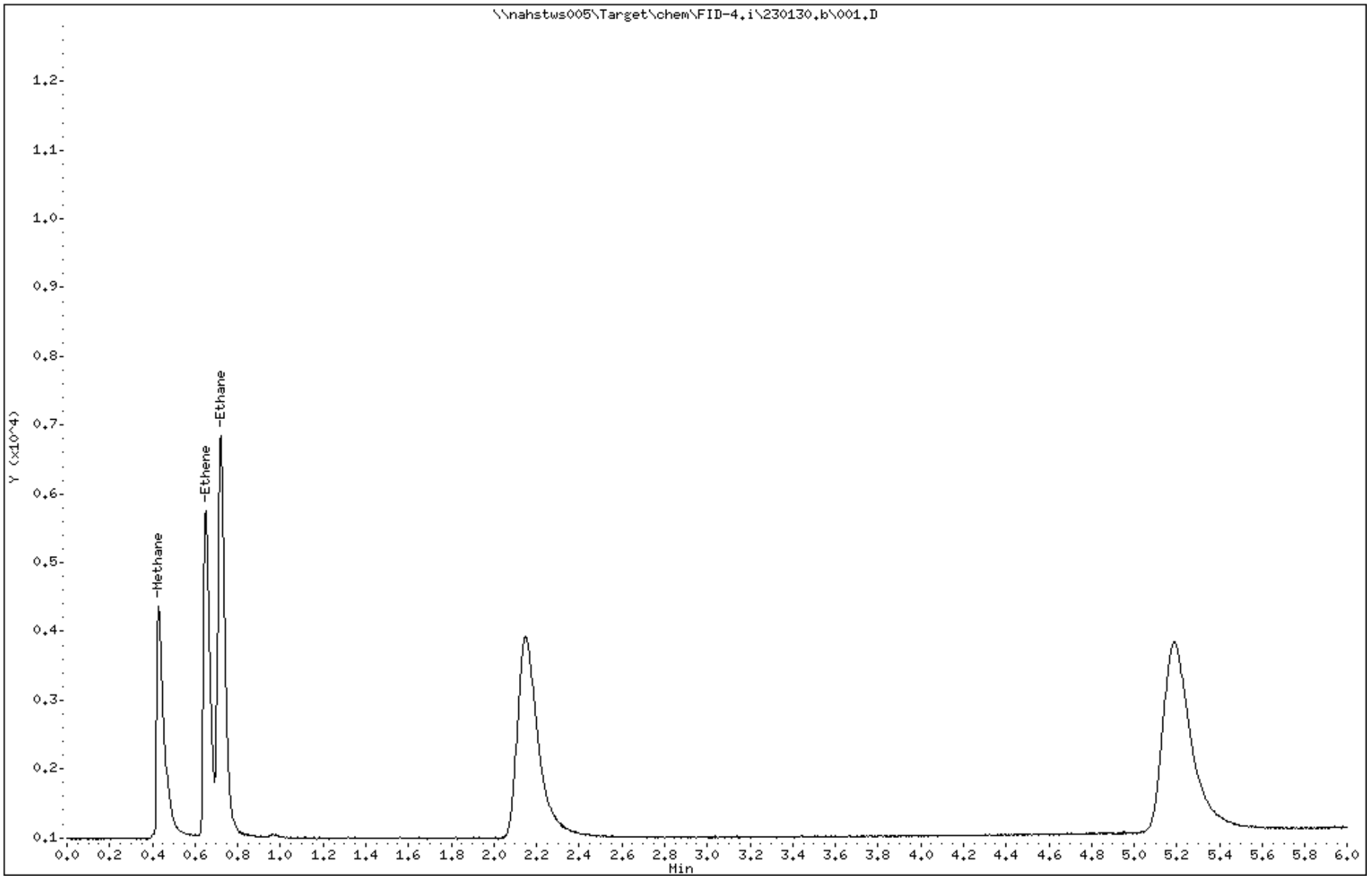
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\230130.b\001.D
Inj Date : 30-JAN-2023 09:25
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\002.D
Lab Smp Id: MBLK-230130 Client Smp ID: MBLK-230130
Inj Date : 30-JAN-2023 09:35
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-230130;MBLK-230130;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 09:34 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\002.D

Date : 30-JAN-2023 09:35

Client ID: MBLK-230130

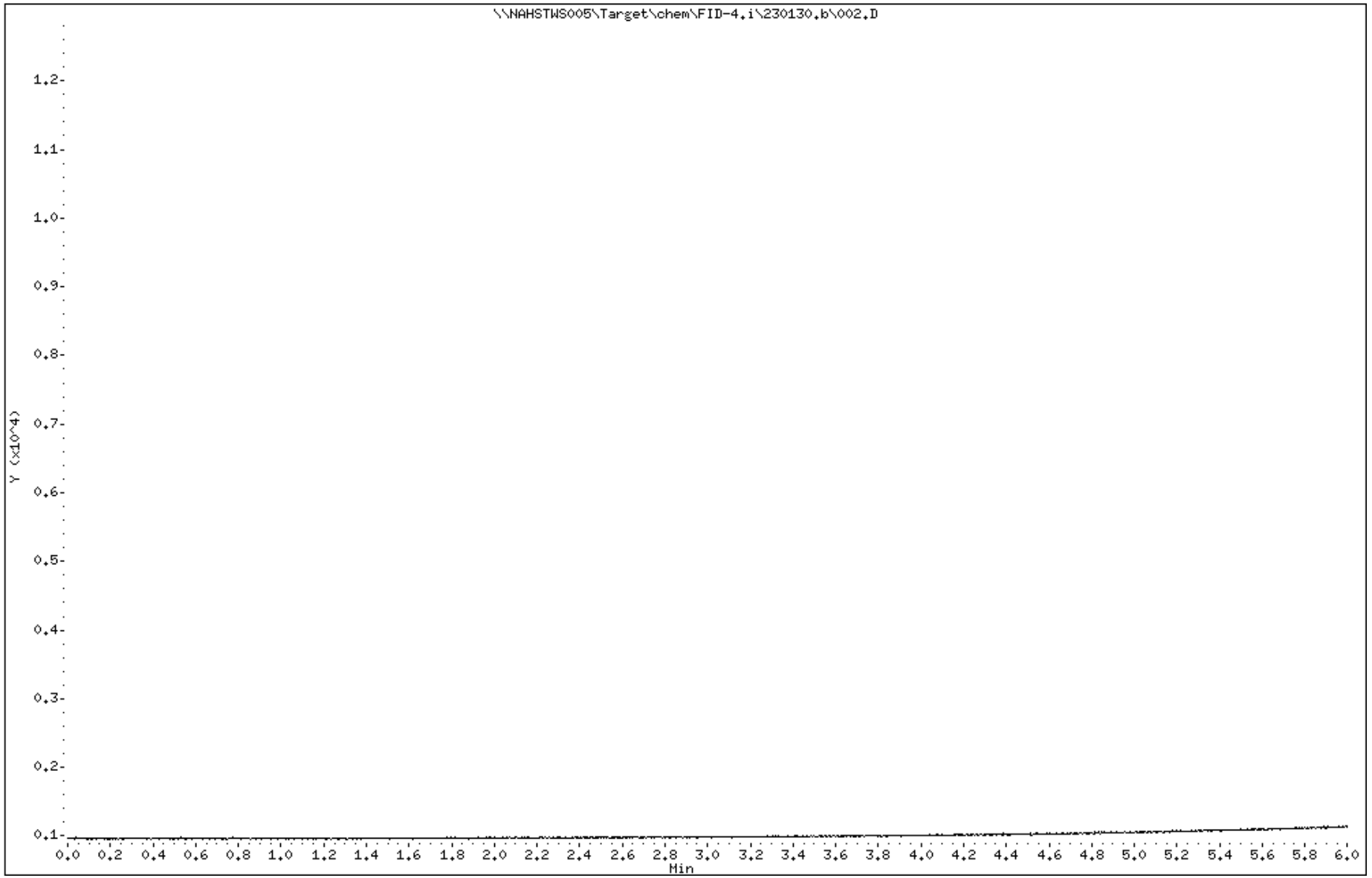
Instrument: FID-4.i

Sample Info: MBLK-230130;MBLK-230130;3;;BLANK

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\002.D
Inj Date : 30-JAN-2023 09:35
InstruID : FID-4.i
LabSampID : MBLK-230130

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\003.D
Lab Smp Id: LCS-230130 Client Smp ID: LCS-230130
Inj Date : 30-JAN-2023 09:43
Operator : PL Inst ID: FID-4.i
Smp Info : LCS-230130;LCS-230130;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 09:34 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.433	0.430	0.003	9149	9.38366	9.383
2 Ethene	0.650	0.650	0.000	10022	17.1094	17.109
3 Ethane	0.723	0.720	0.003	13952	19.3915	19.391

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\003.D

Date : 30-JAN-2023 09:43

Client ID: LCS-230130

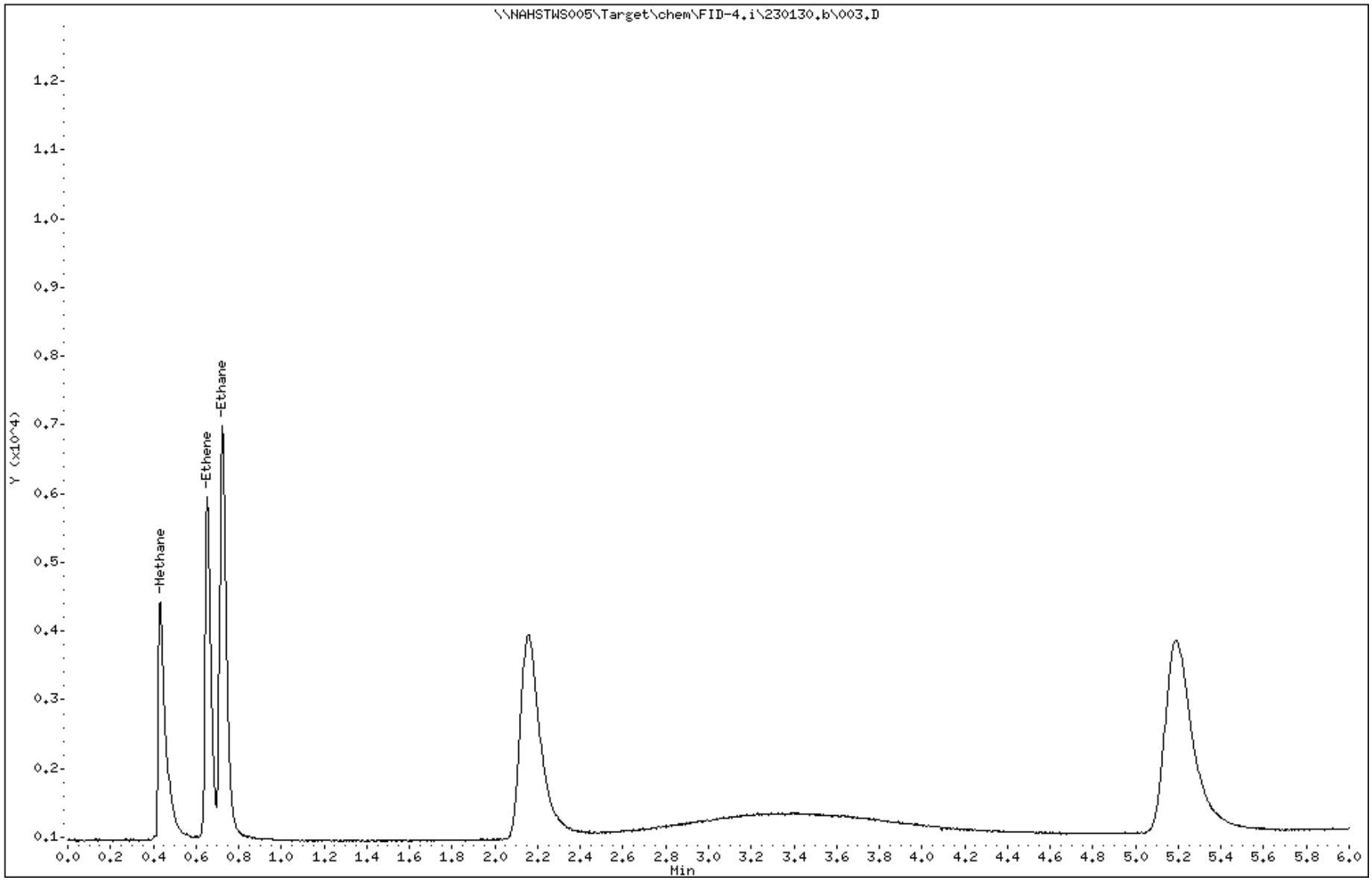
Instrument: FID-4.i

Sample Info: LCS-230130;LCS-230130;3;;LCS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\003.D
Inj Date : 30-JAN-2023 09:43
InstruID : FID-4.i
LabSampID : LCS-230130

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\007.D
Lab Smp Id: HS23011136-01 Client Smp ID: HS23011136-01
Inj Date : 30-JAN-2023 10:22
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-01;HS23011136-01
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 09:34 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	7285	7.47185	7.471

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\007.D

Date : 30-JAN-2023 10:22

Client ID: HS23011136-01

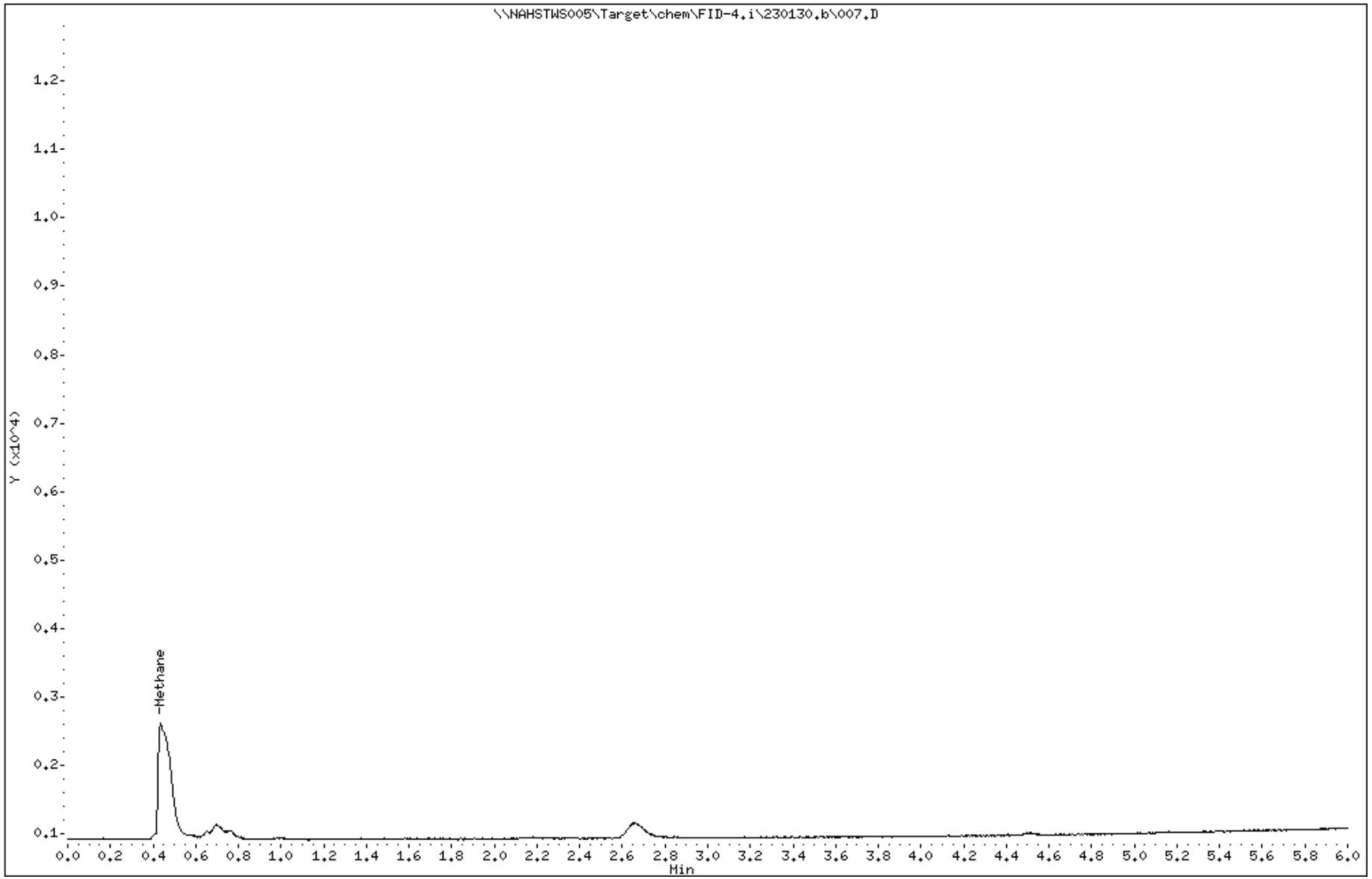
Instrument: FID-4.i

Sample Info: HS23011136-01;HS23011136-01

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\007.D
Inj Date : 30-JAN-2023 10:22
InstruID : FID-4.i
LabSampID : HS23011136-01

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\008.D
Lab Smp Id: HS23011136-02 Client Smp ID: HS23011136-02
Inj Date : 30-JAN-2023 10:48
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-02;HS23011136-02
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.463	0.430	0.033	3264	3.34772	3.347(M)
2 Ethene	0.646	0.650	-0.004	644	1.09943	1.099(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\008.D

Date : 30-JAN-2023 10:48

Client ID: HS23011136-02

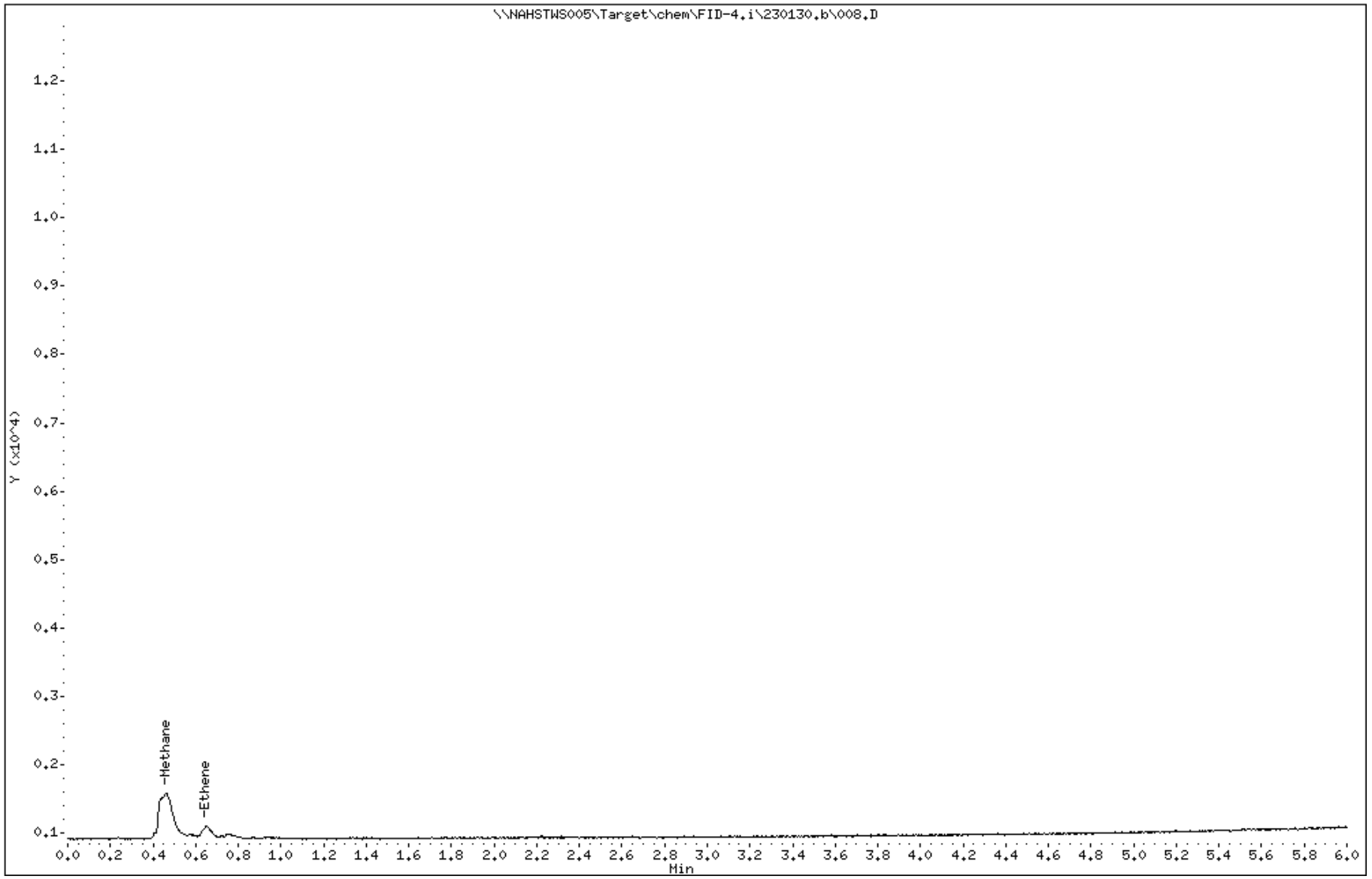
Instrument: FID-4.i

Sample Info: HS23011136-02;HS23011136-02

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



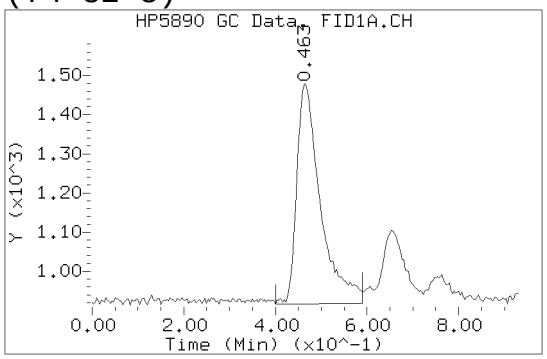
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\008.D
Inj Date : 30-JAN-2023 10:48
InstruID : FID-4.i
LabSampID : HS23011136-02

Methane (74-82-8)

Reason Code:

BEFORE

MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
10:43
ALSHS
Server



AFTER

MASS
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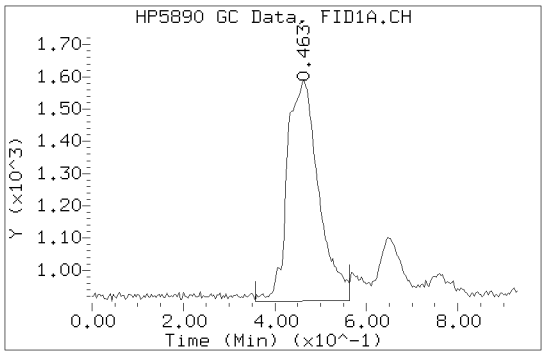
AREA
3264
HEIGHT
686
06-Feb-2023
12:13
ALSHS
Ser

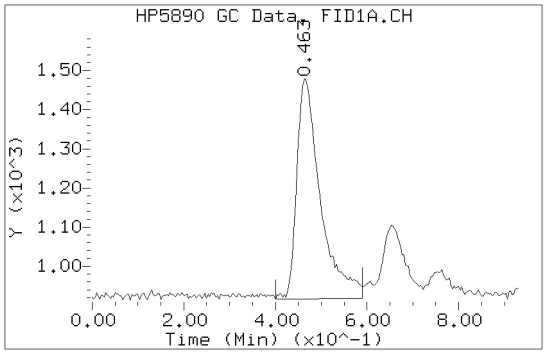


Ethene (74-85-1)

Reason Code:

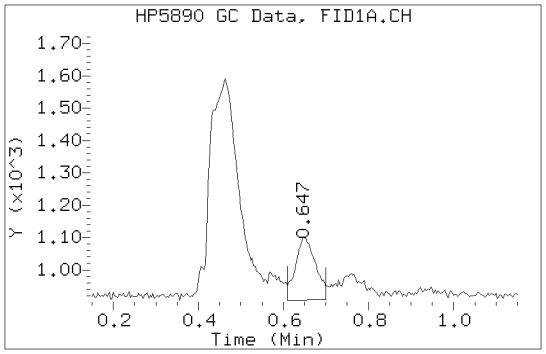
BEFORE

MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
10:43
ALSHS
Server



AFTER

MASS
100
AREA
644
HEIGHT
195
06-Feb-2023
12:13
ALSHS
Ser



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\009.D
Lab Smp Id: HS23011136-03 Client Smp ID: HS23011136-03
Inj Date : 30-JAN-2023 10:55
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-03;HS23011136-03
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.423	0.423	0.000	5073824	5203.96	5203.962(A)
2 Ethene	0.633	0.643	-0.010	30630	52.2910	52.291(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\009.D

Date : 30-JAN-2023 10:55

Client ID: HS23011136-03

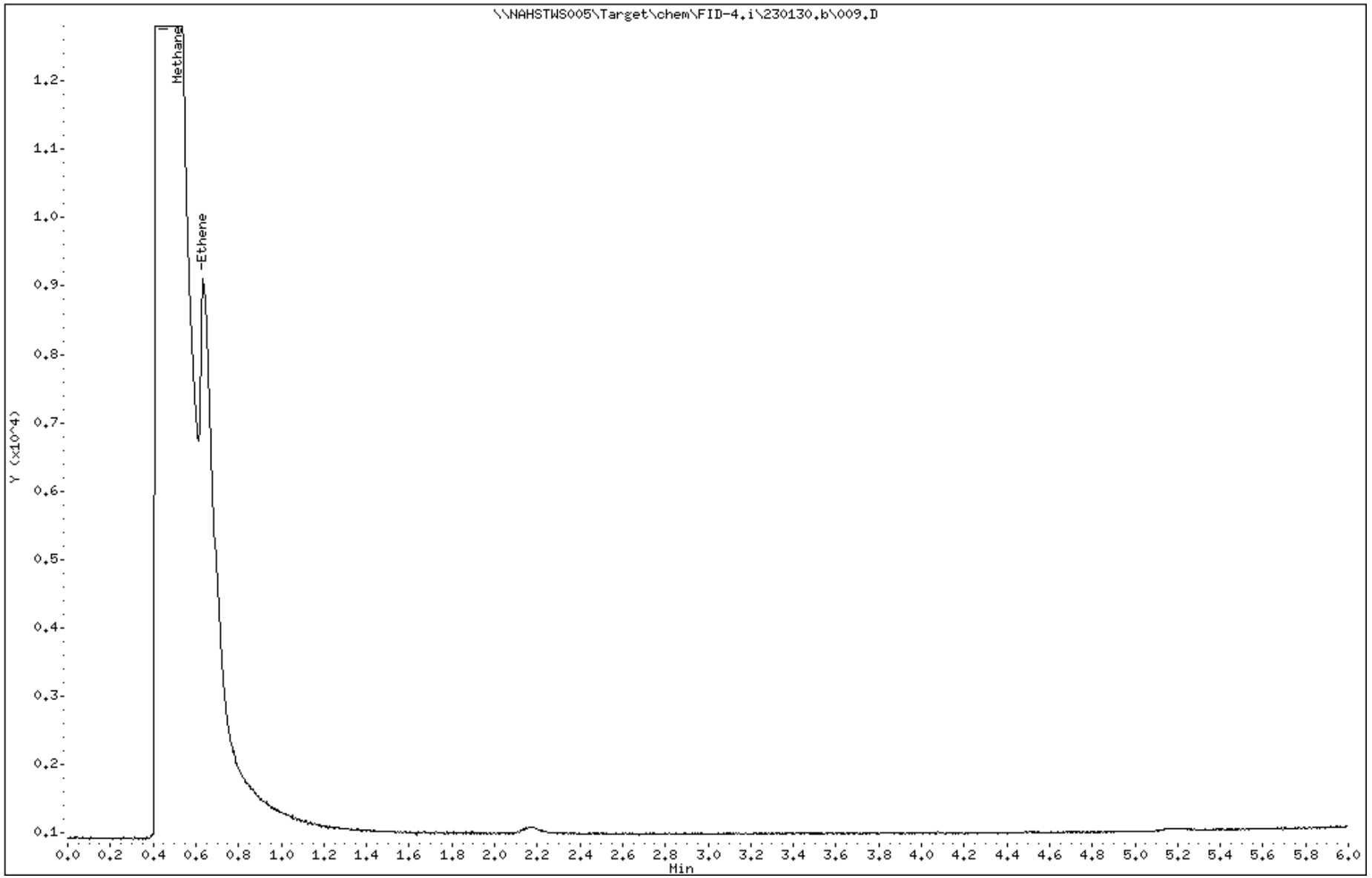
Instrument: FID-4.i

Sample Info: HS23011136-03;HS23011136-03

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



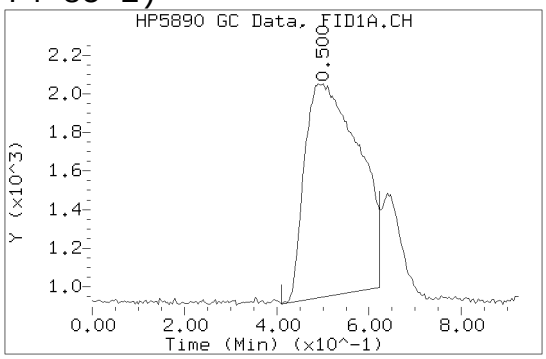
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\009.D
Inj Date : 30-JAN-2023 10:55
InstruID : FID-4.i
LabSampID : HS23011136-03

Ethene (74-85-1)

Reason Code:

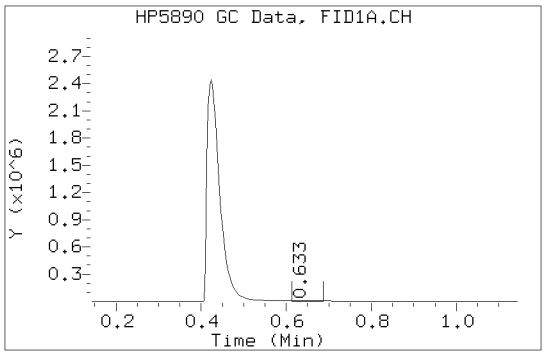
BEFORE

MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
10:47
ALSHS
Server



AFTER

MASS
100
AREA
30630
HEIGHT
8189
16-Feb-2023
13:14
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\010.D Page 1
Report Date: 30-Jan-2023 11:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\010.D
Lab Smp Id: HS23011136-05 Client Smp ID: HS23011136-05
Inj Date : 30-JAN-2023 11:03
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-05;HS23011136-05
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 09:34 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	4595792	4713.67	4713.669(A)
2 Ethene	0.653	0.650	0.003	452021	771.682	771.682(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\010.D

Date : 30-JAN-2023 11:03

Client ID: HS23011136-05

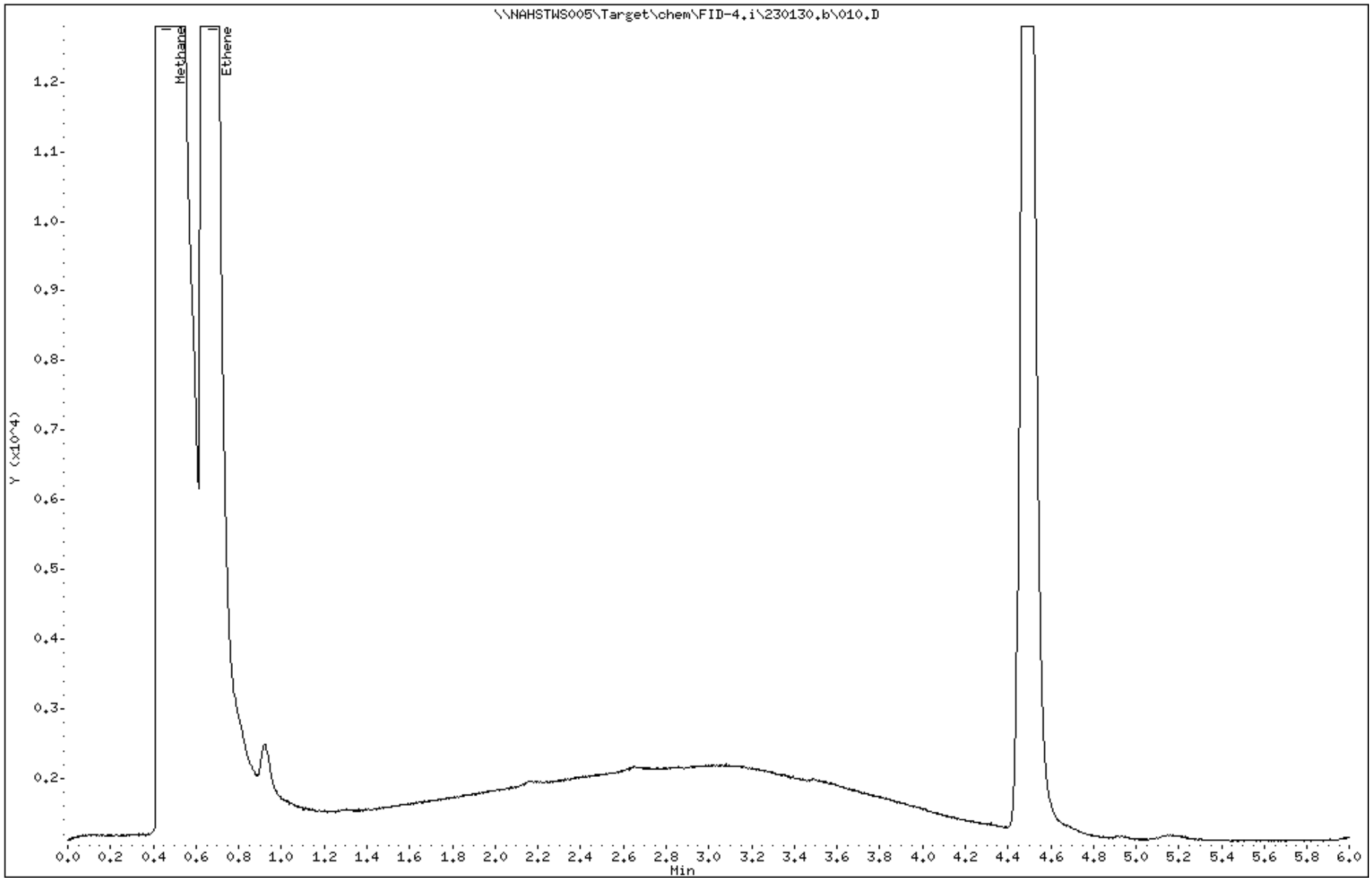
Instrument: FID-4.i

Sample Info: HS23011136-05;HS23011136-05

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\010.D
Inj Date : 30-JAN-2023 11:03
InstruID : FID-4.i
LabSampID : HS23011136-05

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\011.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 30-JAN-2023 11:12
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 11:26 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.430	0.430	0.000	8505	9.64700	8.723
2 Ethene	0.650	0.650	0.000	10176	16.8500	17.372
3 Ethane	0.720	0.720	0.000	15136	18.0430	21.037

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\011.D

Date : 30-JAN-2023 11:12

Client ID: RSK-CCV

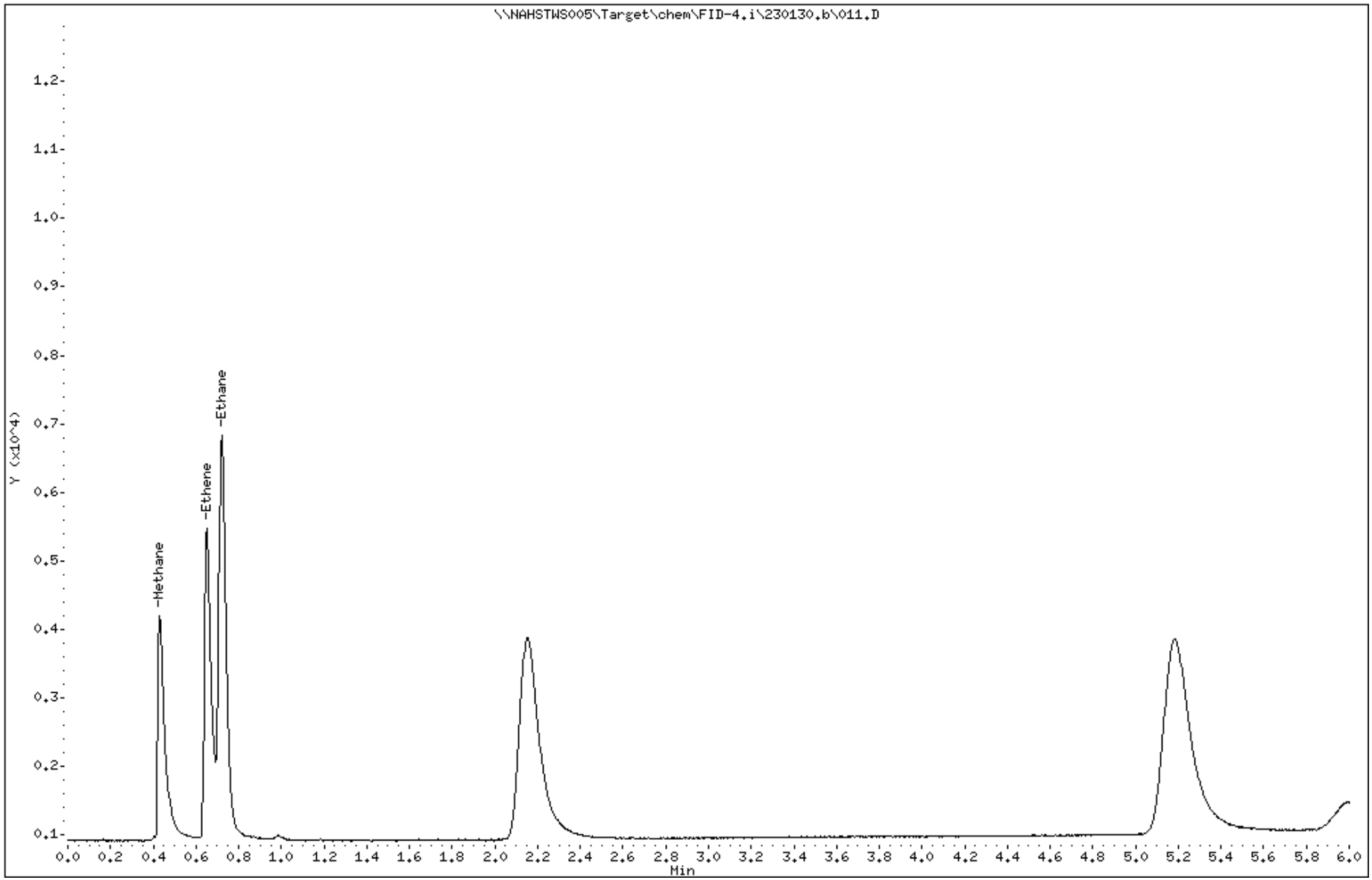
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\011.D
Inj Date : 30-JAN-2023 11:12
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\012.D Page 1
Report Date: 30-Jan-2023 11:29

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\012.D
Lab Smp Id: HS23011136-04 Client Smp ID: HS23011136-04
Inj Date : 30-JAN-2023 11:20
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-04;HS23011136-04
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 11:26 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.436	0.430	0.006	5060054	5189.84	5189.839(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\012.D

Date : 30-JAN-2023 11:20

Client ID: HS23011136-04

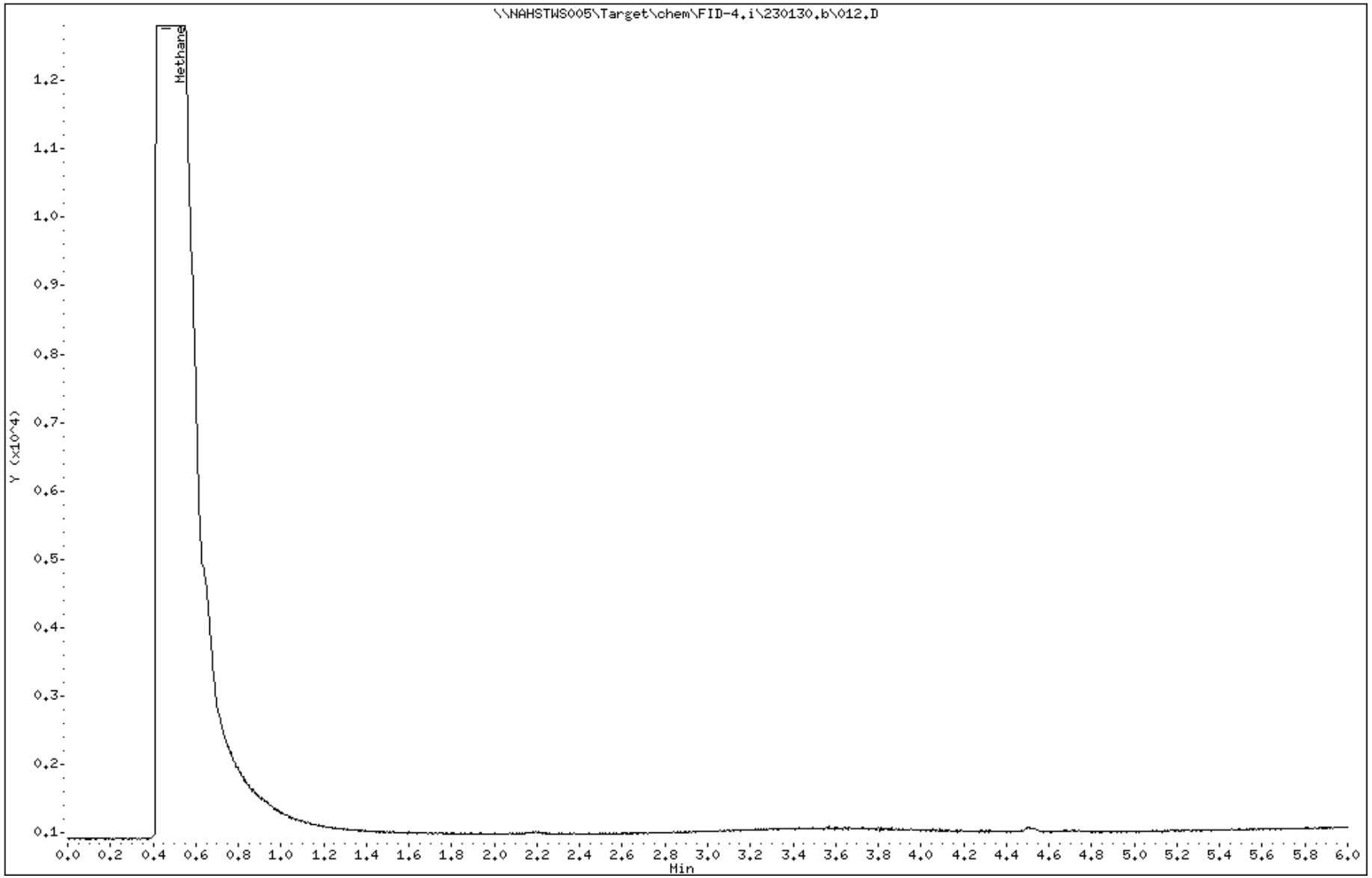
Instrument: FID-4.i

Sample Info: HS23011136-04;HS23011136-04

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\012.D
Inj Date : 30-JAN-2023 11:20
InstruID : FID-4.i
LabSampID : HS23011136-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\013.D Page 1
Report Date: 06-Feb-2023 12:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\013.D
Lab Smp Id: HS23011136-04MS Client Smp ID: HS23011136-04MS
Inj Date : 30-JAN-2023 11:28
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-04MS;HS23011136-04MS
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	4744960	4866.66	4866.663(ARM)
2 Ethene	0.646	0.650	-0.004	27702	47.2924	47.292(RM)
3 Ethane	0.726	0.720	0.006	22730	31.5918	31.591(RM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\013.D

Date : 30-JAN-2023 11:28

Client ID: HS23011136-04MS

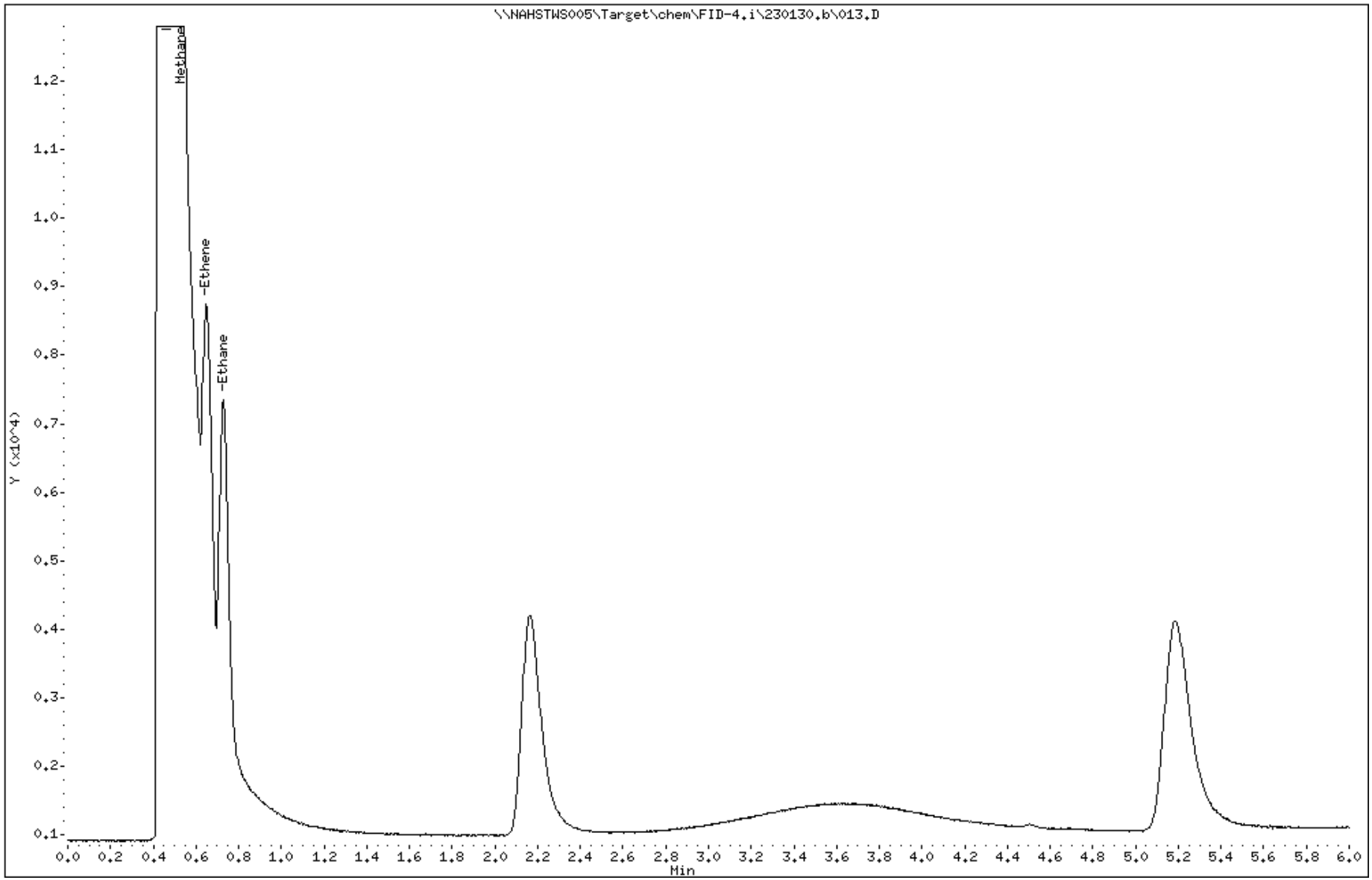
Instrument: FID-4.i

Sample Info: HS23011136-04MS;HS23011136-04MS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53

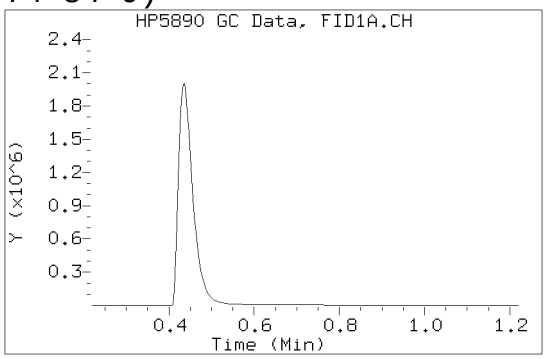


Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\013.D
Inj Date : 30-JAN-2023 11:28
InstruID : FID-4.i
LabSampID : HS23011136-04MS

Ethane (74-84-0)

BEFORE

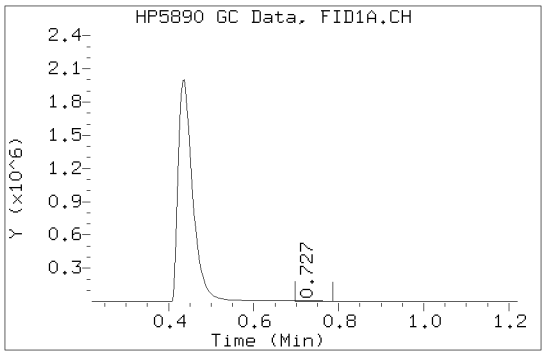
MASS
44
AREA
36147
HEIGHT
6418
30-Jan-2023
11:35
ALSHS
Server



AFTER

MASS
44
AREA
22730
HEIGHT
6448
06-Feb-2023
12:14
ALSHS
Ser

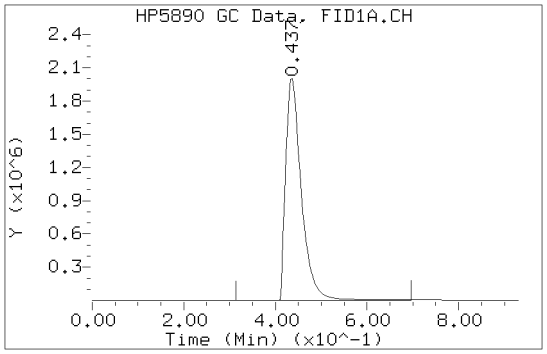
Reason Code:



Methane (74-82-8)

BEFORE

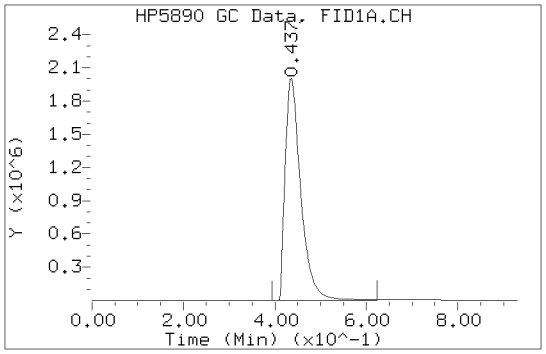
MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
11:35
ALSHS
Server



AFTER

MASS
100
AREA
4744960
HEIGHT
2000494
06-Feb-2023
12:14
ALSHS
Ser

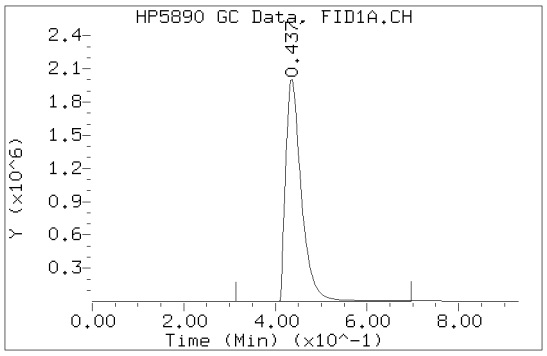
Reason Code:



Ethene (74-85-1)

BEFORE

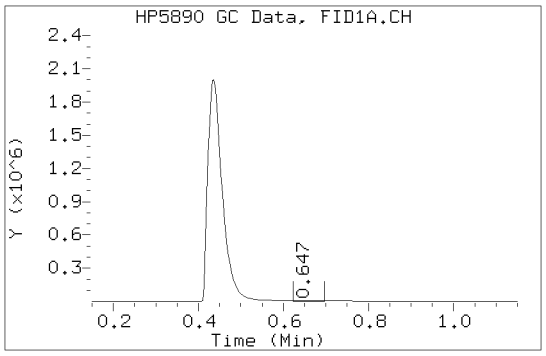
MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
11:35
ALSHS
Server



AFTER

MASS
100
AREA
27702
HEIGHT
7852
06-Feb-2023
12:14
ALSHS
Ser

Reason Code:



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\014.D Page 1
Report Date: 06-Feb-2023 12:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\014.D
Lab Smp Id: HS23011136-04MSD Client Smp ID: HS23011136-04MSD
Inj Date : 30-JAN-2023 11:37
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-04MSD;HS23011136-04MSD
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.430	0.430	0.000	4691938	4812.28	4812.281(AR)
2 Ethene	0.636	0.650	-0.014	24015	40.9980	40.997(R)
3 Ethane	0.716	0.720	-0.004	21212	29.4820	29.482(RM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\014.D

Date : 30-JAN-2023 11:37

Client ID: HS23011136-04MSD

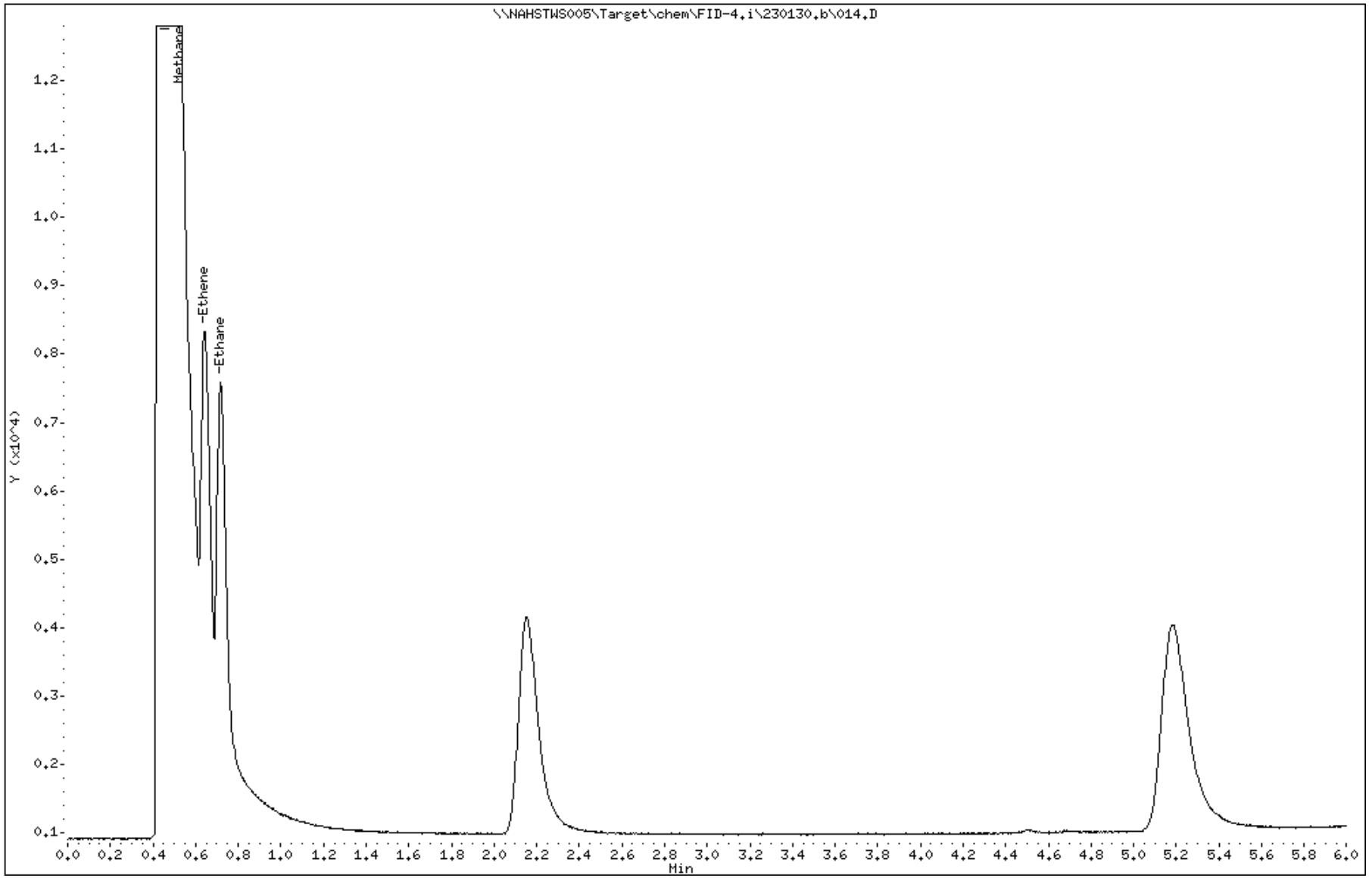
Instrument: FID-4.i

Sample Info: HS23011136-04MSD;HS23011136-04MSD

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



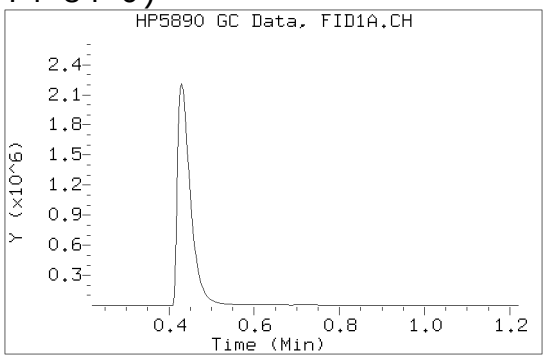
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\014.D
Inj Date : 30-JAN-2023 11:37
InstruID : FID-4.i
LabSampID : HS23011136-04MSD

Ethane (74-84-0)

Reason Code:

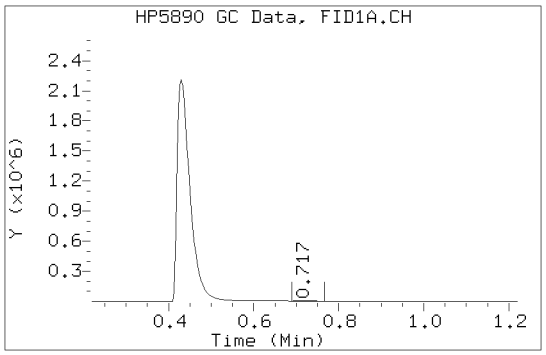
BEFORE

MASS
44
AREA
35857
HEIGHT
6673
30-Jan-2023
11:45
ALSHS
Server



AFTER

MASS
44
AREA
21212
HEIGHT
6673
06-Feb-2023
12:14
ALSHS
Ser



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\015.D
Lab Smp Id: HS23011136-06 Client Smp ID: HS23011136-06
Inj Date : 30-JAN-2023 11:46
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-06;HS23011136-06
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 11:26 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.430	0.006	4270913	4380.46	4380.458(A)
2 Ethene	0.653	0.650	0.003	411634	702.734	702.734(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\015.D

Date : 30-JAN-2023 11:46

Client ID: HS23011136-06

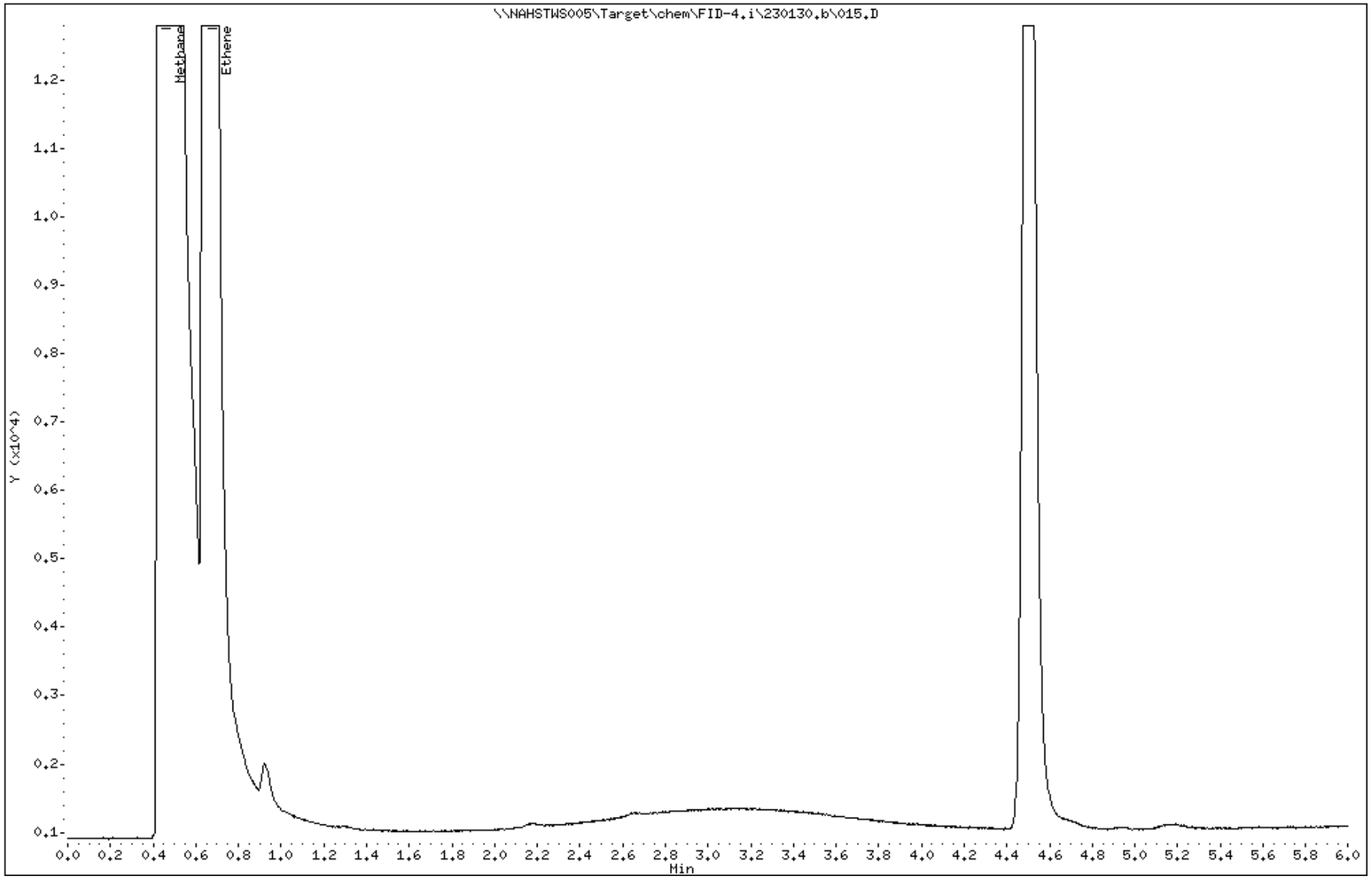
Instrument: FID-4.i

Sample Info: HS23011136-06;HS23011136-06

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\015.D
Inj Date : 30-JAN-2023 11:46
InstruID : FID-4.i
LabSampID : HS23011136-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\016.D Page 1
Report Date: 30-Jan-2023 13:46

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\016.D
Lab Smp Id: HS23011136-03 Client Smp ID: HS23011136-03
Inj Date : 30-JAN-2023 11:55
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-03;HS23011136-03
Misc Info : ;1;0;400
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 13:04 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 16
Dil Factor: 400.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.460	0.433	0.027	14095	14.4565	5782.609(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\016.D

Date : 30-JAN-2023 11:55

Client ID: HS23011136-03

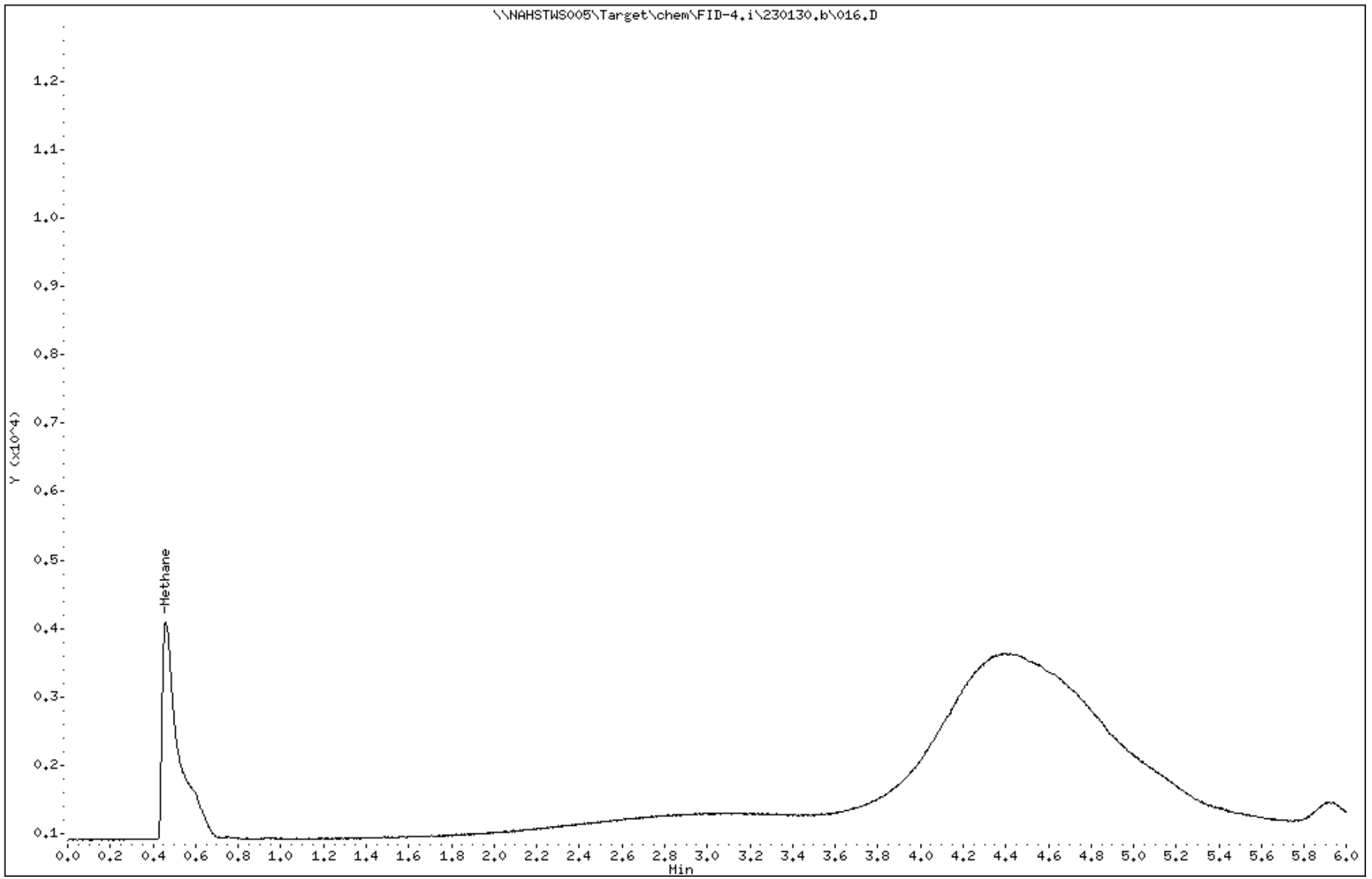
Instrument: FID-4.i

Sample Info: HS23011136-03;HS23011136-03

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



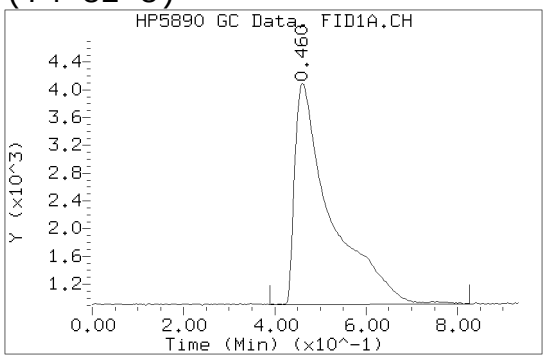
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\016.D
Inj Date : 30-JAN-2023 11:55
InstruID : FID-4.i
LabSampID : HS23011136-03

Methane (74-82-8)

Reason Code:

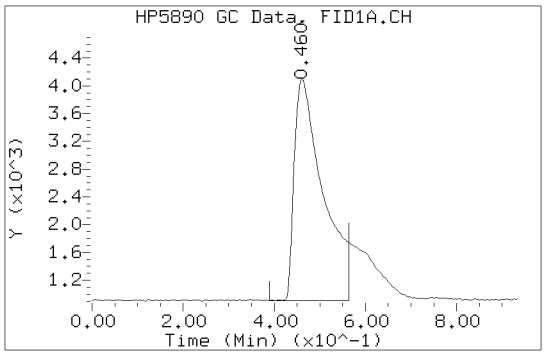
BEFORE

MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
12:02
ALSHS
Server



AFTER

MASS
100
AREA
14095
HEIGHT
3185
30-Jan-2023
13:45
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\017.D Page 1
Report Date: 30-Jan-2023 13:46

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\017.D
Lab Smp Id: HS23011136-04 Client Smp ID: HS23011136-04
Inj Date : 30-JAN-2023 12:08
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-04;HS23011136-04
Misc Info : ;1;0;400
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 13:04 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 17
Dil Factor: 400.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.466	0.433	0.033	13039	13.3734	5349.375(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\017.D

Date : 30-JAN-2023 12:08

Client ID: HS23011136-04

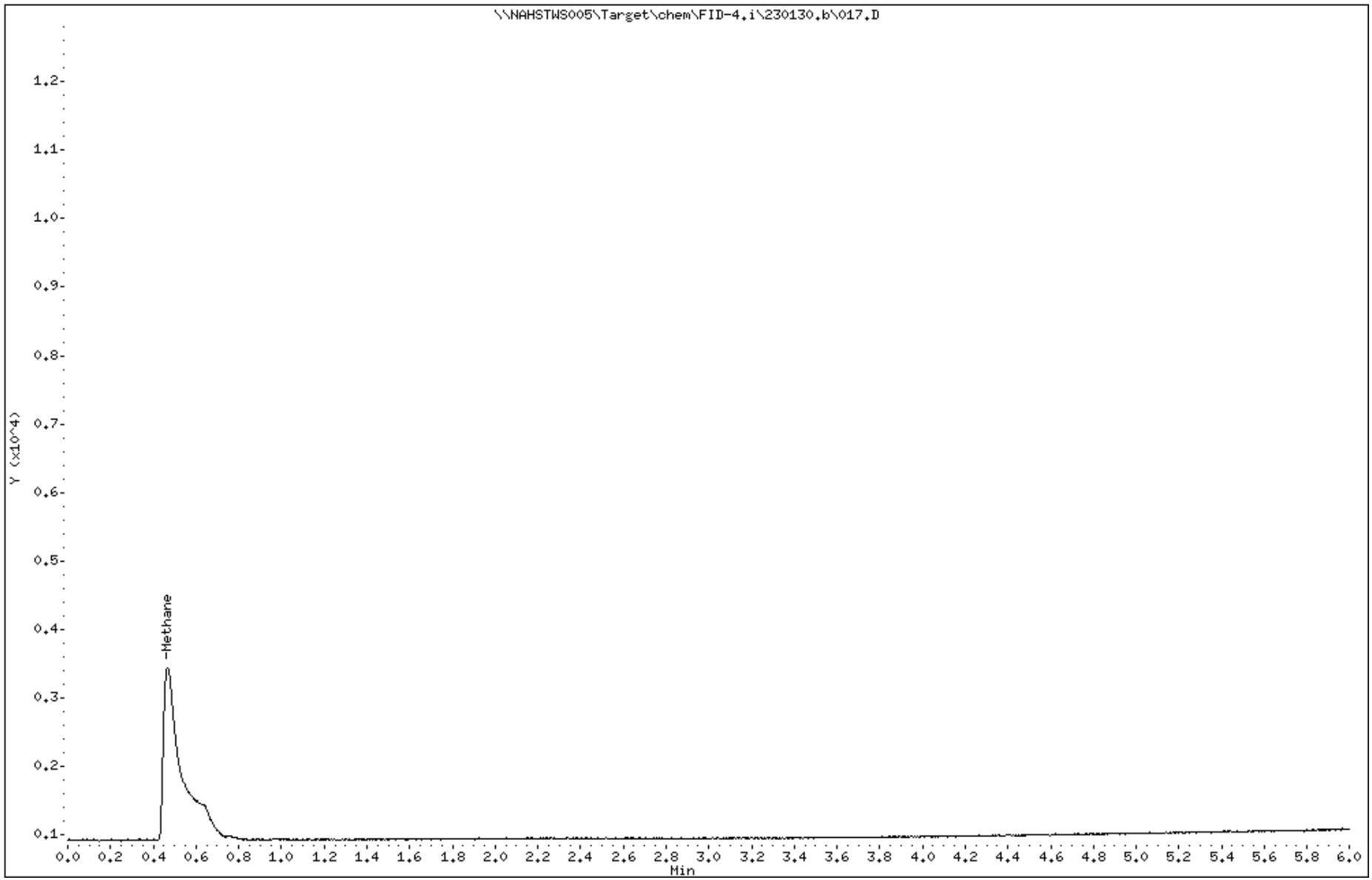
Instrument: FID-4.i

Sample Info: HS23011136-04;HS23011136-04

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



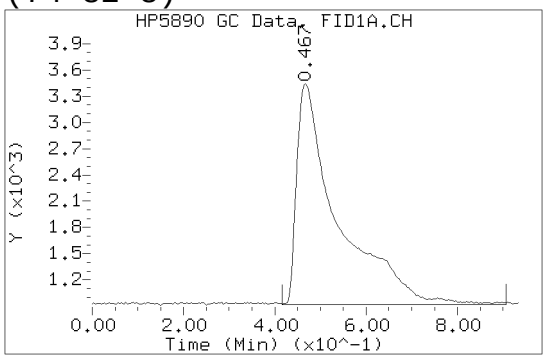
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\017.D
Inj Date : 30-JAN-2023 12:08
InstruID : FID-4.i
LabSampID : HS23011136-04

Methane (74-82-8)

Reason Code:

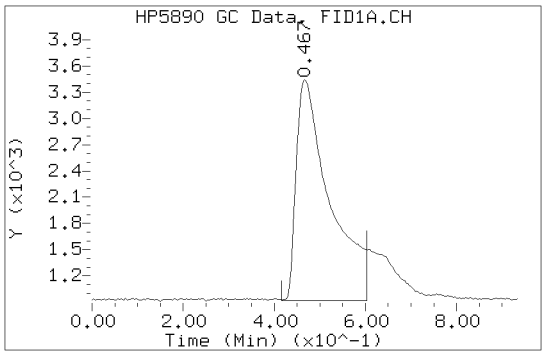
BEFORE

MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
12:15
ALSHS
Server



AFTER

MASS
100
AREA
13039
HEIGHT
2530
30-Jan-2023
13:46
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\018.D Page 1
Report Date: 06-Feb-2023 12:22

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\018.D
Lab Smp Id: HS23011136-05 Client Smp ID: HS23011136-05
Inj Date : 30-JAN-2023 12:16
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-05;HS23011136-05
Misc Info : ;1;0;200
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 18
Dil Factor: 200.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.453	0.423	0.030	20882	21.4176	4283.520(M)
2 Ethene	0.670	0.643	0.027	2391	4.08187	816.374(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\018.D

Date : 30-JAN-2023 12:16

Client ID: HS23011136-05

Instrument: FID-4.i

Sample Info: HS23011136-05;HS23011136-05

Operator: PL

Column phase: Rtx-PLOT

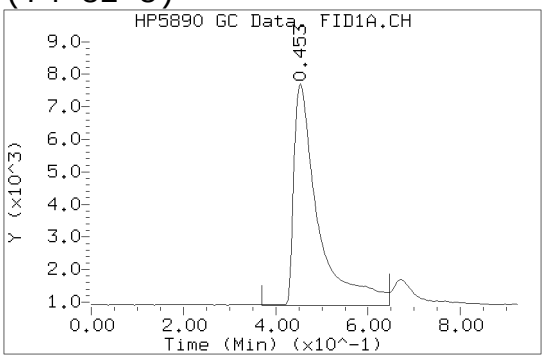
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\018.D
Inj Date : 30-JAN-2023 12:16
InstruID : FID-4.i
LabSampID : HS23011136-05

Methane (74-82-8)

BEFORE

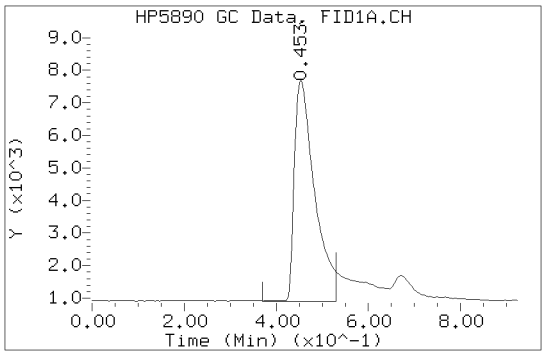
MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
12:25
ALSHS
Server



Reason Code:

AFTER

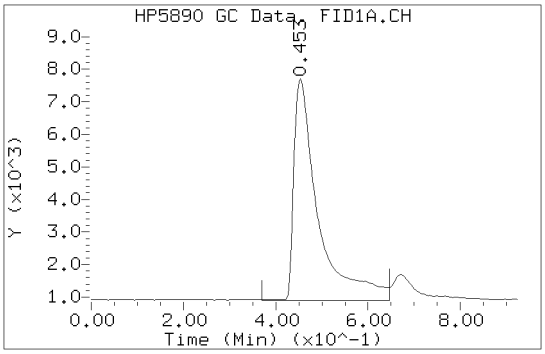
MASS
100
AREA
20882
HEIGHT
6807
06-Feb-2023
12:22
ALSHS
Ser



Ethene (74-85-1)

BEFORE

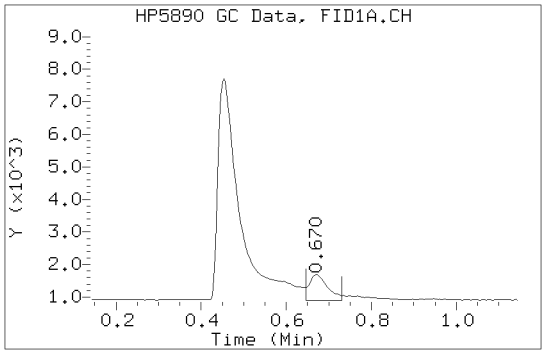
MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
12:25
ALSHS
Server



Reason Code:

AFTER

MASS
100
AREA
2391
HEIGHT
788
06-Feb-2023
12:22
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\019.D Page 1
Report Date: 30-Jan-2023 13:50

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\019.D
Lab Smp Id: HS23011136-06 Client Smp ID: HS23011136-06
Inj Date : 30-JAN-2023 12:26
Operator : PL Inst ID: FID-4.i
Smp Info : HS23011136-06;HS23011136-06
Misc Info : ;1;0;400
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 13:04 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 19
Dil Factor: 400.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.460	0.433	0.027	12387	12.7047	5081.886(M)
2 Ethene	0.676	0.660	0.016	2335	3.98627	1594.508(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\019.D

Date : 30-JAN-2023 12:26

Client ID: HS23011136-06

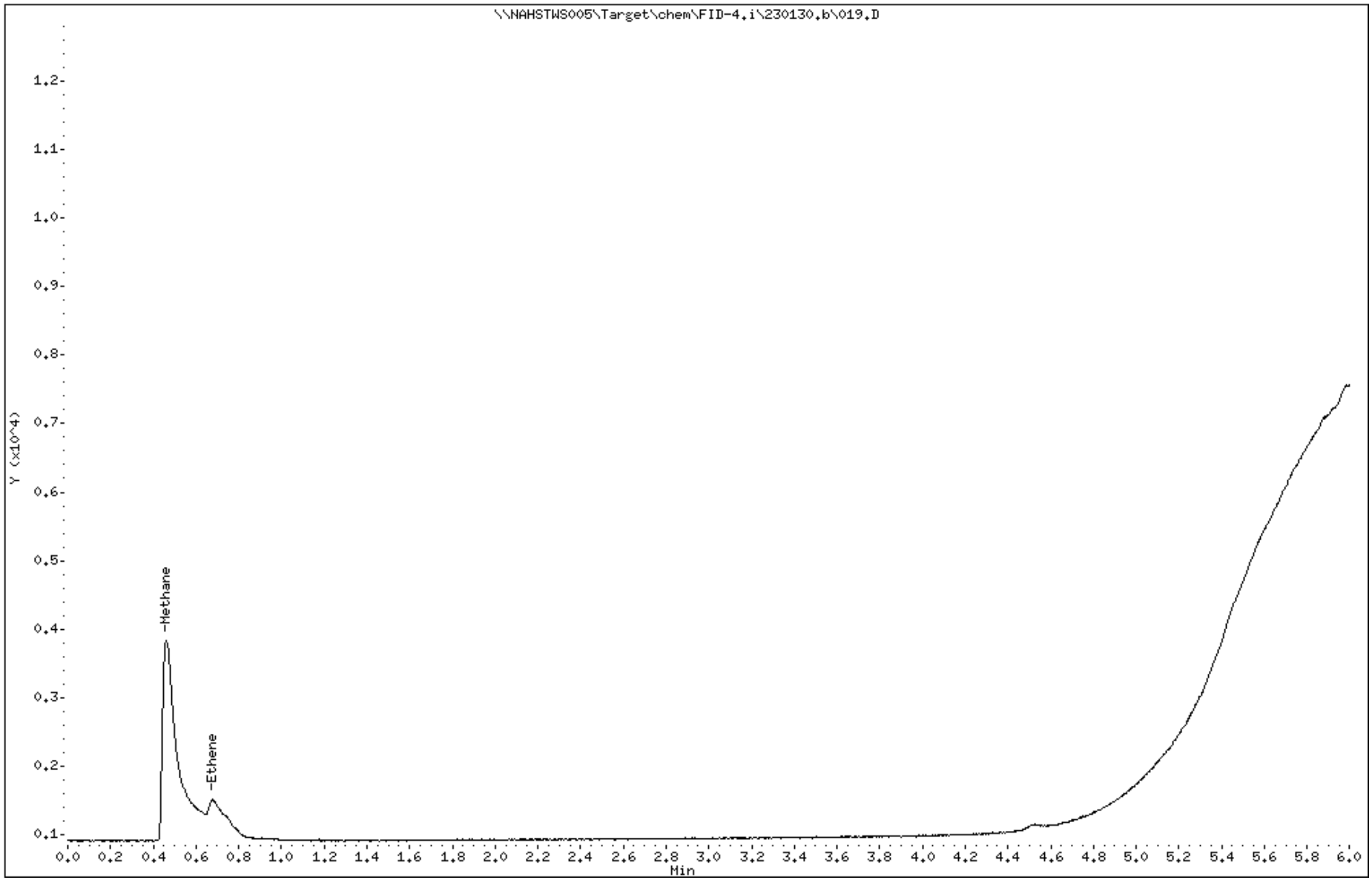
Instrument: FID-4.i

Sample Info: HS23011136-06;HS23011136-06

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



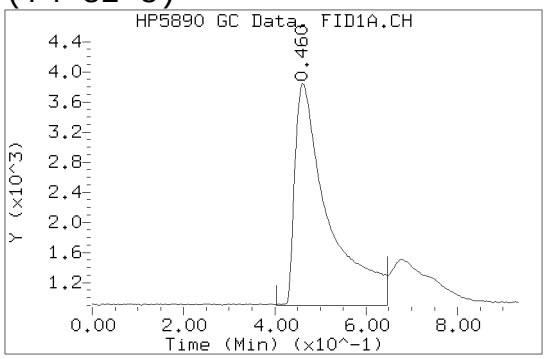
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\019.D
Inj Date : 30-JAN-2023 12:26
InstruID : FID-4.i
LabSampID : HS23011136-06

Methane (74-82-8)

Reason Code:

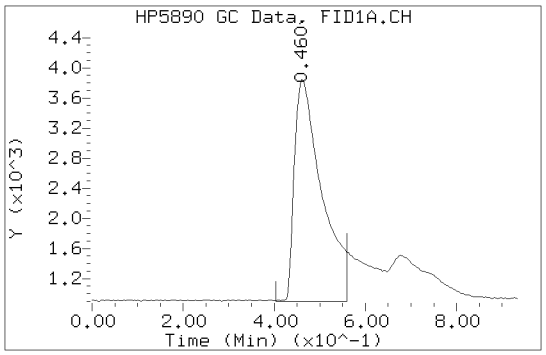
BEFORE

MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
12:33
ALSHS
Server



AFTER

MASS
100
AREA
12387
HEIGHT
2940
30-Jan-2023
13:50
ALSHS
Ser

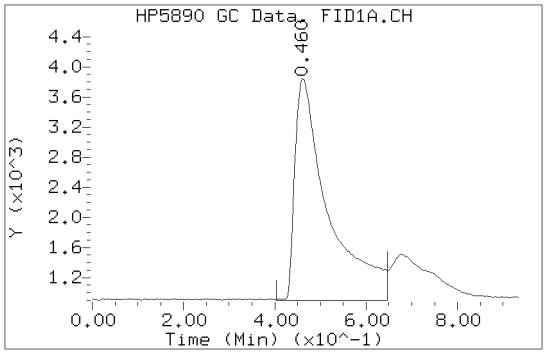


Ethene (74-85-1)

Reason Code:

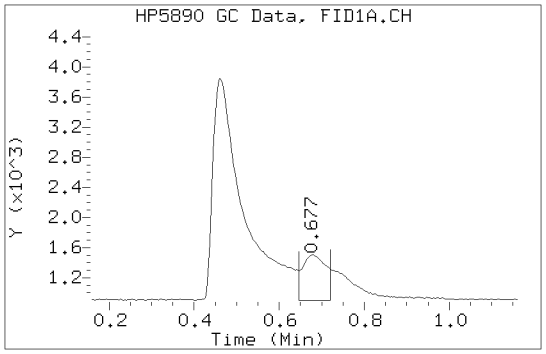
BEFORE

MASS
100
AREA
0
HEIGHT
0
30-Jan-2023
12:33
ALSHS
Server



AFTER

MASS
100
AREA
2335
HEIGHT
607
30-Jan-2023
13:50
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\022.D Page 1
Report Date: 06-Feb-2023 12:15

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\022.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 30-JAN-2023 12:55
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.433	0.433	0.000	9180	9.64700	9.415
2 Ethene	0.660	0.660	0.000	9682	16.8500	16.528(M)
3 Ethane	0.730	0.730	0.000	13798	18.0430	19.177(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\022.D

Date : 30-JAN-2023 12:55

Client ID: RSK-CCV

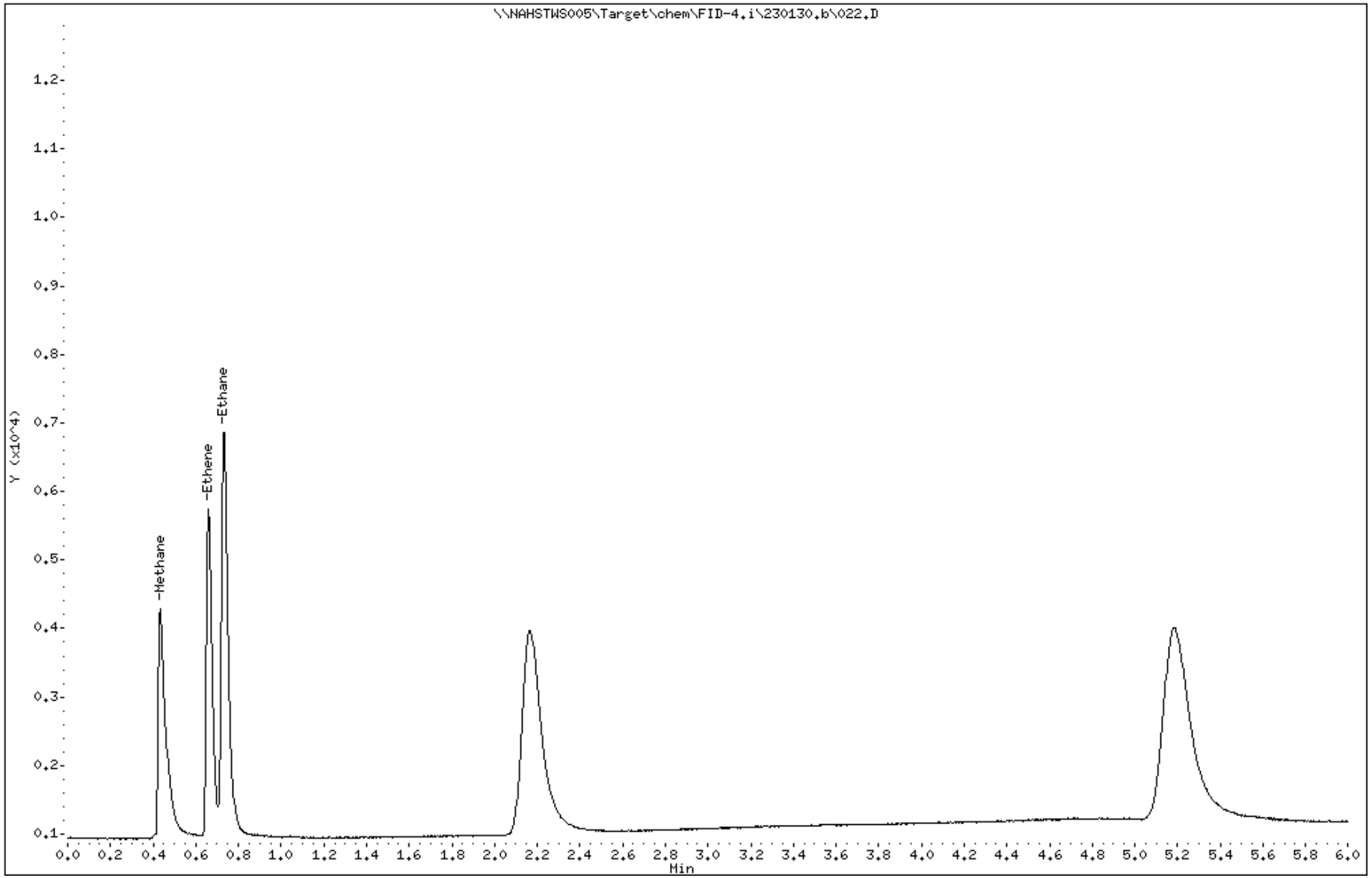
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



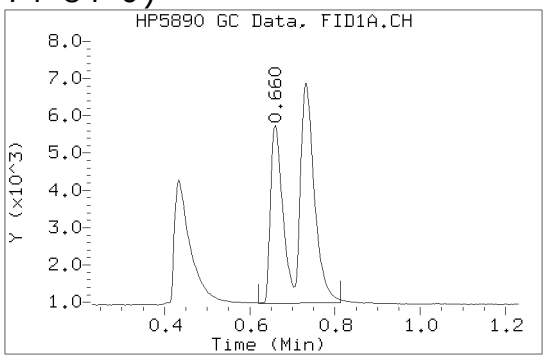
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\022.D
Inj Date : 30-JAN-2023 12:55
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

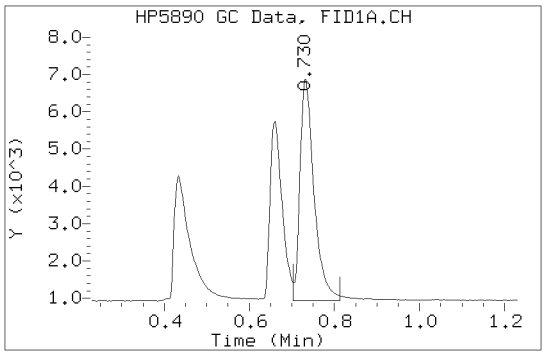
BEFORE

MASS
44
AREA
22792
HEIGHT
4768
30-Jan-2023
13:02
ALSHS
Server



AFTER

MASS
44
AREA
13798
HEIGHT
5930
06-Feb-2023
12:15
ALSHS
Ser

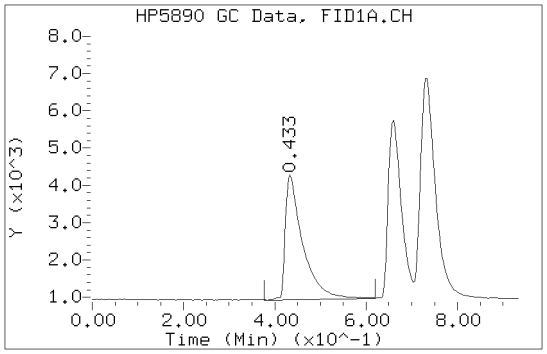


Ethene (74-85-1)

Reason Code:

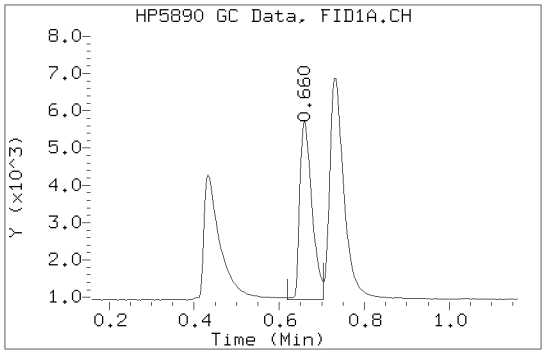
BEFORE

MASS
100
AREA
157
HEIGHT
23
30-Jan-2023
13:02
ALSHS
Server



AFTER

MASS
100
AREA
9682
HEIGHT
4816
06-Feb-2023
12:15
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\033.D Page 1
Report Date: 06-Feb-2023 12:16

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\033.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 30-JAN-2023 14:30
Operator : JA Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\RSKNI3.m
Meth Date : 30-Jan-2023 14:38 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.423	0.423	0.000	8678	9.64700	8.900
2 Ethene	0.643	0.643	0.000	10361	16.8500	17.688
3 Ethane	0.716	0.716	0.000	14064	18.0430	19.547(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230130.b\033.D

Date : 30-JAN-2023 14:30

Client ID: RSK-CCV

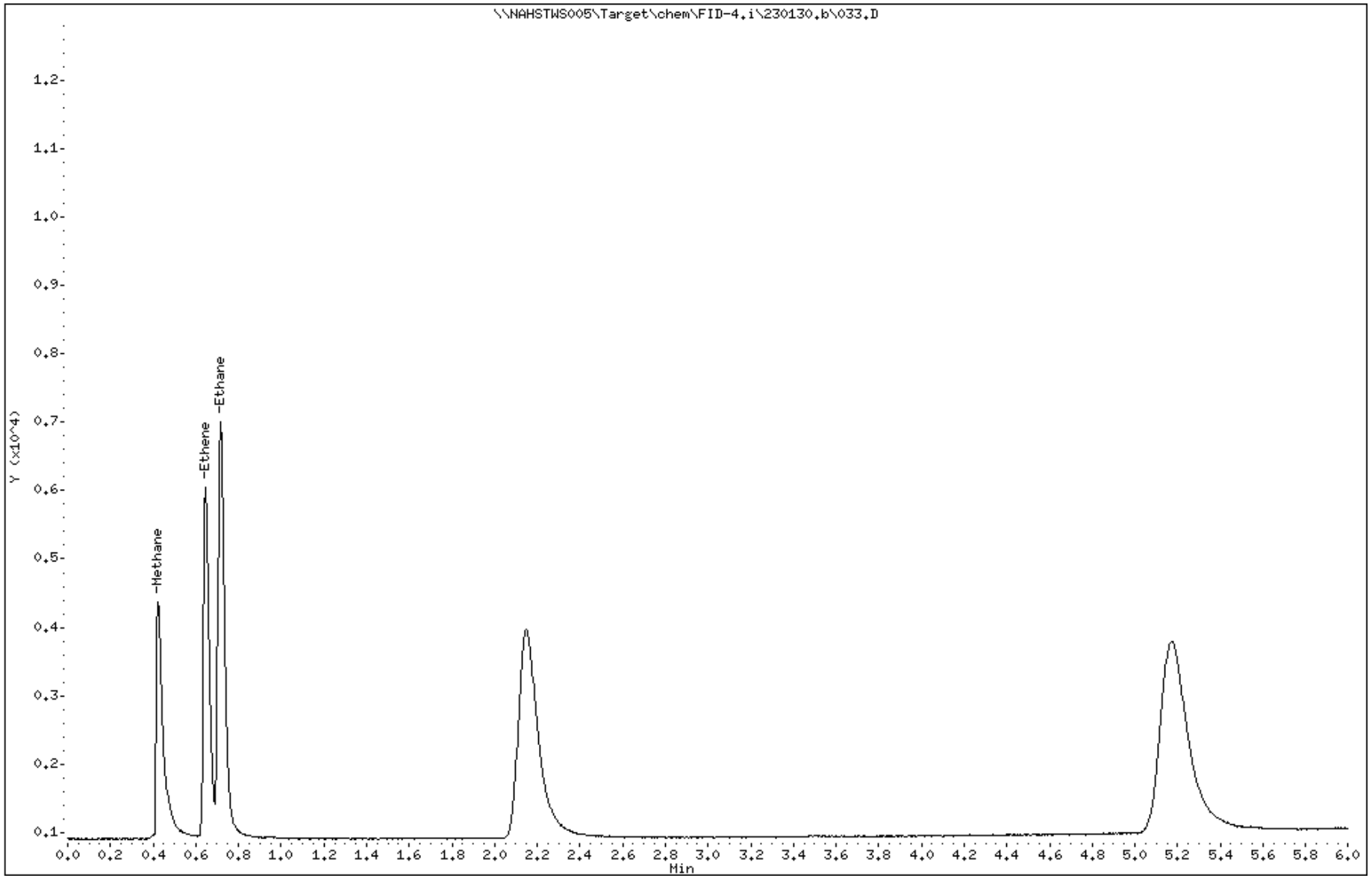
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



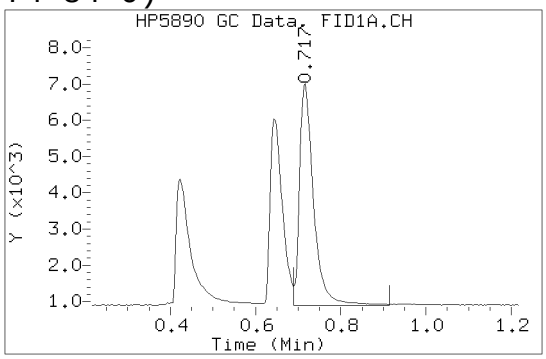
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230130.b\033.D
Inj Date : 30-JAN-2023 14:30
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code:

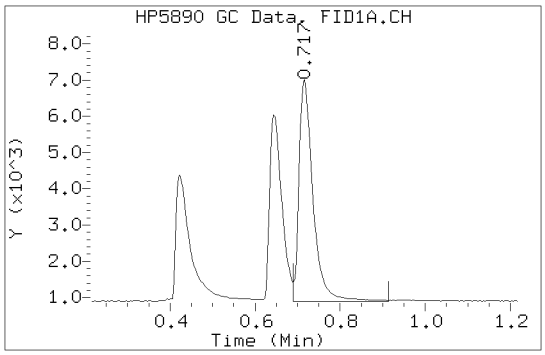
BEFORE

MASS
44
AREA
14064
HEIGHT
6114
06-Feb-2023
12:16
purvi
lad



AFTER

MASS
44
AREA
14064
HEIGHT
6114
06-Feb-2023
12:16
purvi
lad



HS23011136 Wet Chemistry

ALS WO# HS23011136

C:\TOC-L\Data\2022_12_22_002_CAL.tlx

HS2301136

	Type	Analysis	Sample Nam	Sample ID	Origin	Manual Diluti	Result	Notes	Status
1	Standard	NPOC	CAL	3100606518	12_22_2022.2	1.000			Completed
2	Unknown	NPOC	ICV	3100606203	12_22_2022.c	1.000	NPOC:10.7		Completed
3	Unknown	NPOC	ICB		12_22_2022.c	1.000	NPOC:0.34		Completed

	Date / Time	Vial
1	12/22/2022	1, 2, 3, 4, 5,
2	12/22/2022	8
3	12/22/2022	1

TOC-Control L Report

2022_12_22_002_CAL.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

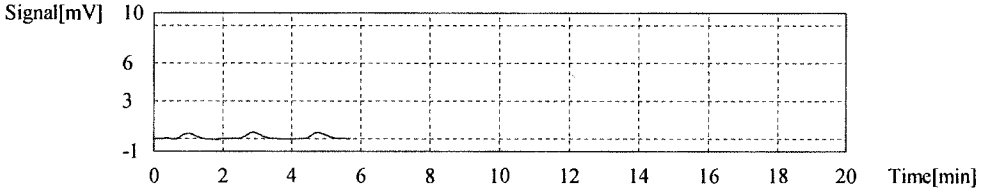
Sample Name:	CAL
Sample ID:	3100606518
Cal. Curve:	12_22_2022.2022_12_22_13_06_45.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.350	50uL	1.000	*******		12/22/2022 12:15:57 PM
2	1.448	50uL	1.000	*******		12/22/2022 12:18:06 PM
3	1.380	50uL	1.000	*******		12/22/2022 12:20:13 PM

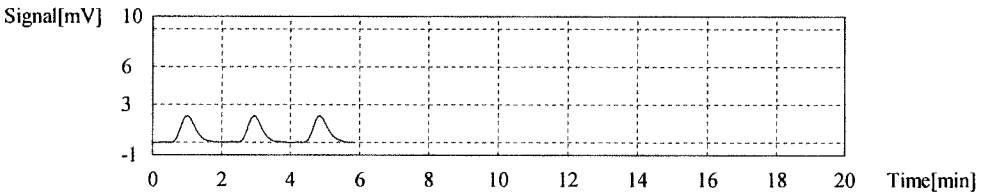
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	1.393



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.297	50uL	1.000	*******		12/22/2022 12:28:55 PM
2	5.988	50uL	1.000	*******		12/22/2022 12:31:02 PM
3	6.247	50uL	1.000	*******		12/22/2022 12:33:14 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	6.177



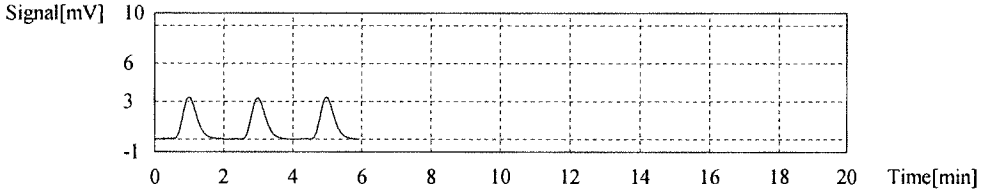
Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	9.406	50uL	1.000	*******		12/22/2022 12:41:58 PM
2	9.448	50uL	1.000	*******		12/22/2022 12:44:11 PM
3	9.385	50uL	1.000	*******		12/22/2022 12:46:20 PM

TOC-Control L Report

2022_12_22_002_CAL.tlx

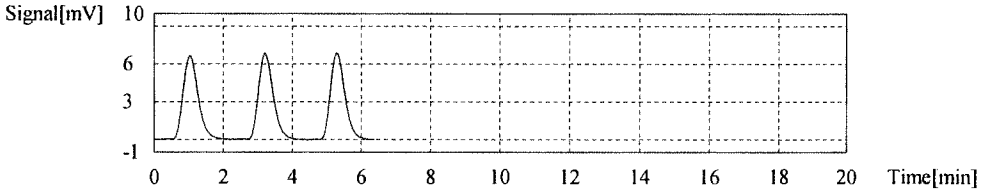
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	9.413



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.41	50uL	1.000	*******		12/22/2022 12:55:16 PM
2	20.23	50uL	1.000	*******		12/22/2022 12:57:35 PM
3	20.36	50uL	1.000	*******		12/22/2022 12:59:53 PM

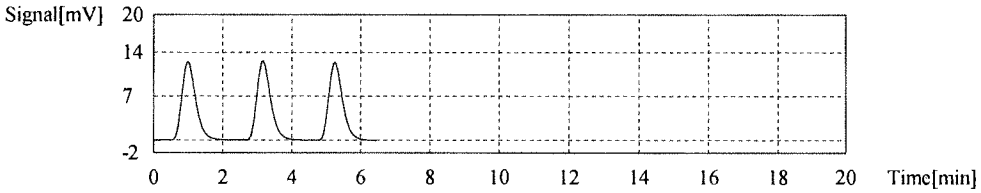
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	20.33



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	35.65	50uL	1.000	*******		12/22/2022 1:08:48 PM
2	35.20	50uL	1.000	*******		12/22/2022 1:11:07 PM
3	35.02	50uL	1.000	*******		12/22/2022 1:13:30 PM

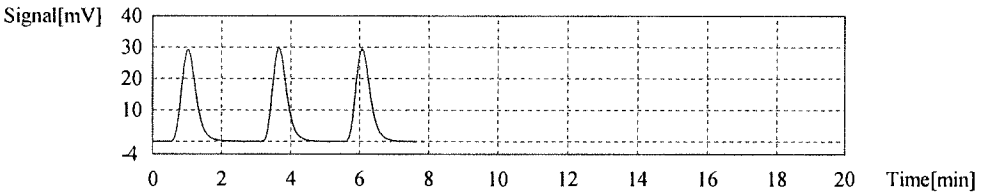
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	35.29



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	88.49	50uL	1.000	*******		12/22/2022 1:22:53 PM
2	87.55	50uL	1.000	*******		12/22/2022 1:25:34 PM
3	87.85	50uL	1.000	*******		12/22/2022 1:28:20 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	87.96



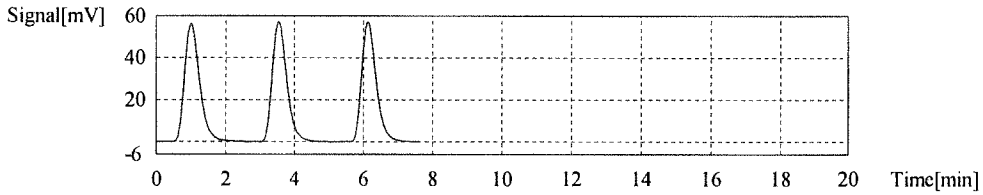
Conc: 50.00mg/L

TOC-Control L Report

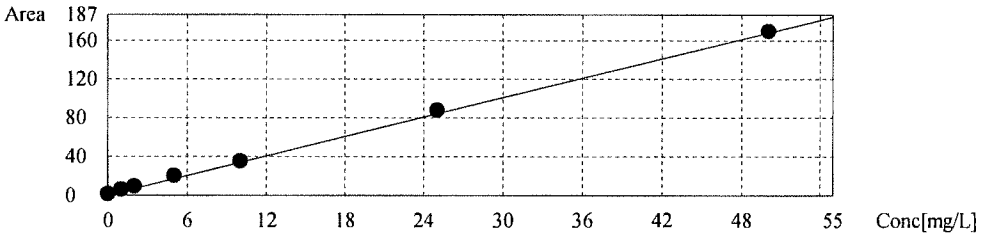
2022_12_22_002_CAL.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	169.8	50uL	1.000	*******		12/22/2022 1:37:37 PM
2	171.3	50uL	1.000	*******		12/22/2022 1:40:28 PM
3	168.9	50uL	1.000	*******		12/22/2022 1:43:09 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 170.0



Slope: 3.361
Intercept 0.000
r^2 0.9998
r 0.9999
RSE(%) N/A
Zero Shift Yes



Sample

Sample Name: ICV
Sample ID: 3100606203
Origin: 12_22_2022.cal
Status Completed
Chk. Result

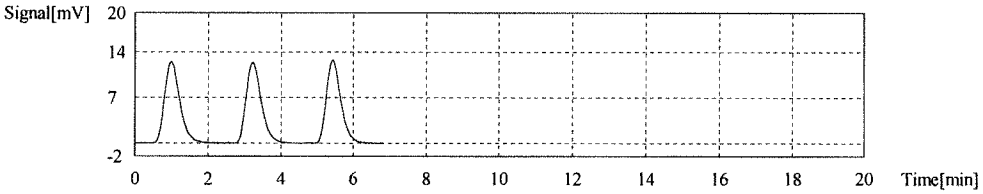
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.41	10.83mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:52:08 PM
2	36.34	10.81mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:54:34 PM
3	36.03	10.72mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:57:10 PM

Mean Area 36.26
Mean Conc. 10.79mg/L



Sample

TOC-Control L Report

2022_12_22_002_CAL.tlx

Sample Name: ICB
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

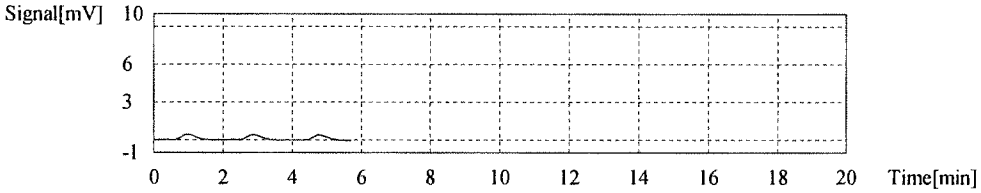
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3481mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.237	0.3681mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:06:02 PM
2	1.118	0.3327mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:08:10 PM
3	1.155	0.3437mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:10:18 PM

Mean Area 1.170
Mean Conc. 0.3481mg/L



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	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:25.79mg/L	
2	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.09327mg/	
3	Unknown	NPOC	MBLK-01302023		12_22_2022	1.000	NPOC:0.06803mg/	
4	Unknown	NPOC	LCS-01302023	3100606203	12_22_2022	1.000	NPOC:11.05mg/L	
5	Unknown	NPOC	LCSD-01302023		12_22_2022	1.000	NPOC:11.18mg/L	
6	Unknown	NPOC	HS23011389-04		12_22_2022	1.000	NPOC:2.056mg/L	
7	Unknown	NPOC	HS23011389-05		12_22_2022	1.000	NPOC:0.6773mg/L	
8	Unknown	NPOC	HS23011136-01		12_22_2022	1.000	NPOC:6.477mg/L	
9	Unknown	NPOC	HS23011136-02		12_22_2022	1.000	NPOC:19.93mg/L	
10	Unknown	NPOC	HS23011136-03		12_22_2022	1.000	NPOC:91.46mg/L	
11	Unknown	NPOC	HS23011136-04		12_22_2022	1.000	NPOC:166.0mg/L	
12	Unknown	NPOC	HS23011136-04MS		12_22_2022	1.000	NPOC:177.1mg/L	
13	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:26.87mg/L	
14	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.2545mg/L	
15	Unknown	NPOC	HS23011136-05		12_22_2022	1.000	NPOC:1555mg/L	
16	Unknown	NPOC	HS23011136-06		12_22_2022	1.000	NPOC:1483mg/L	
17	Unknown	NPOC	HS23011271-01		12_22_2022	1.000	NPOC:5.974mg/L	
18	Unknown	NPOC	HS23011271-02		12_22_2022	1.000	NPOC:5.235mg/L	
19	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:26.54mg/L	
20	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.2016mg/L	
21	Unknown	NPOC	MBLK-01302023		12_22_2022	1.000	NPOC:0.1783mg/L	
22	Unknown	NPOC	LCS-01302023	3100606203	12_22_2022	1.000	NPOC:11.29mg/L	
23	Unknown	NPOC	LCSD-01302023		12_22_2022	1.000	NPOC:11.14mg/L	
24	Unknown	NPOC	HS23011271-03		12_22_2022	1.000	NPOC:4.907mg/L	
25	Unknown	NPOC	HS23011271-03MS		12_22_2022	1.000	NPOC:15.53mg/L	
26	Unknown	NPOC	HS23011294-01		12_22_2022	1.000	NPOC:4.995mg/L	
27	Unknown	NPOC	HS23011304-02		12_22_2022	1.000	NPOC:0.5531mg/L	
28	Unknown	NPOC	HS23011397-10		12_22_2022	1.000	NPOC:1.679mg/L	
29	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:26.28mg/L	
30	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.1365mg/L	
31	Unknown	NPOC	MBLK-01302023		12_22_2022	1.000	NPOC:0.04622mg/	
32	Unknown	NPOC	LCS-01302023	3100606203	12_22_2022	1.000	NPOC:10.88mg/L	
33	Unknown	NPOC	LCSD-01302023		12_22_2022	1.000	NPOC:11.08mg/L	
34	Unknown	NPOC	HS23011351-01		12_22_2022	1.000	NPOC:5.602mg/L	
35	Unknown	NPOC	HS23011351-01MS		12_22_2022	1.000	NPOC:16.02mg/L	
36	Unknown	NPOC	HS23011251-01		12_22_2022	1.000	NPOC:43.33mg/L	
37	Unknown	NPOC	HS23011408-01		12_22_2022	1.000	NPOC:25.62mg/L	
38	Unknown	NPOC	HS23011405-01		12_22_2022	1.000	NPOC:32.06mg/L	
39	Unknown	NPOC	HS23011261-01		12_22_2022	1.000	NPOC:6.841mg/L	
40	Unknown	NPOC	HS23011261-02		12_22_2022	1.000	NPOC:12.37mg/L	
41	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:26.36mg/L	
42	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.4125mg/L	
43	Unknown	NPOC	HS23011447-01		12_22_2022	1.000	NPOC:9.126mg/L	
44	Unknown	NPOC	HS23011353-01		12_22_2022	1.000	NPOC:6.311mg/L	
45	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:25.88mg/L	
46	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.4115mg/L	

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	Status	Date / Time	Vial
1	Completed	1/30/2023 3:18:06 P	1
2	Completed	1/30/2023 3:31:03 P	2
3	Completed	1/30/2023 3:43:56 P	3
4	Completed	1/30/2023 3:58:00 P	4
5	Completed	1/30/2023 4:11:50 P	5
6	Completed	1/30/2023 4:24:55 P	6
7	Completed	1/30/2023 4:37:58 P	7
8	Completed	1/30/2023 4:52:00 P	8
9	Completed	1/30/2023 5:06:32 P	9
10	Completed	1/30/2023 5:20:59 P	10
11	Completed	1/30/2023 5:35:59 P	11
12	Completed	1/30/2023 5:51:05 P	12
13	Completed	1/30/2023 6:05:50 P	1
14	Completed	1/30/2023 6:18:53 P	2
15	Completed	1/30/2023 6:38:36 P	13
16	Completed	1/30/2023 6:57:33 P	14
17	Completed	1/30/2023 7:11:05 P	15
18	Completed	1/30/2023 7:24:52 P	16
19	Completed	1/30/2023 7:39:27 P	1
20	Completed	1/30/2023 7:52:20 P	2
21	Completed	1/30/2023 8:05:16 P	3
22	Completed	1/30/2023 8:19:44 P	4
23	Completed	1/30/2023 8:33:45 P	5
24	Completed	1/30/2023 8:47:31 P	17
25	Completed	1/30/2023 9:01:48 P	18
26	Completed	1/30/2023 9:15:21 P	19
27	Completed	1/30/2023 9:28:18 P	20
28	Completed	1/30/2023 9:41:23 P	21
29	Completed	1/30/2023 9:56:03 P	23
30	Completed	1/30/2023 10:08:56 P	24
31	Completed	1/30/2023 10:21:56 P	3
32	Completed	1/30/2023 10:36:00 P	4
33	Completed	1/30/2023 10:50:17 P	5
34	Completed	1/30/2023 11:04:26 P	25
35	Completed	1/30/2023 11:18:54 P	26
36	Completed	1/30/2023 11:33:41 P	27
37	Completed	1/30/2023 11:48:32 P	28
38	Completed	1/31/2023 12:03:06 A	29
39	Completed	1/31/2023 12:17:14 A	30
40	Completed	1/31/2023 12:33:10 A	31
41	Completed	1/31/2023 12:48:27 A	23
42	Completed	1/31/2023 1:01:20 A	24
43	Completed	1/31/2023 1:15:58 A	32
44	Completed	1/31/2023 1:30:19 A	33
45	Completed	1/31/2023 1:45:47 A	23
46	Completed	1/31/2023 1:58:40 A	24

TOC-Control L Report

2023_01_30_001.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 321100711
Origin: 12_22_2022.cal
Status: Completed
Chk. Result

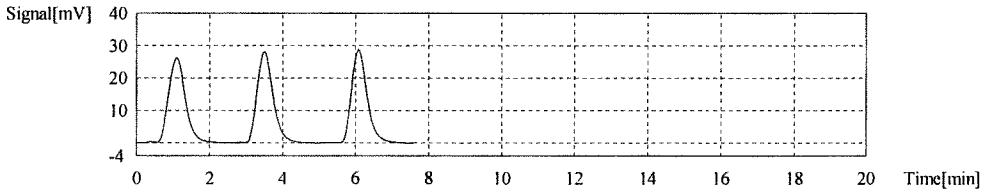
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.28	25.38mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:12:31 PM
2	87.28	25.97mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:15:20 PM
3	87.45	26.02mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:18:06 PM

Mean Area: 86.67
Mean Conc.: 25.79mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09327mg/L

1. Det

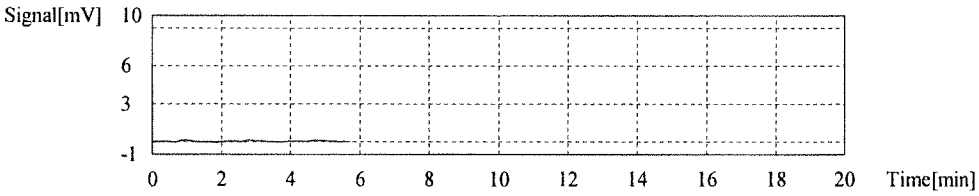
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3325	0.09894mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:26:46 PM
2	0.4122	0.1227mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:28:55 PM
3	0.1957	0.05823mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:31:03 PM

TOC-Control L Report

2023_01_30_001.tlx

Mean Area 0.3135
Mean Conc. 0.09327mg/L



Sample

Sample Name: MBLK-01302023
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

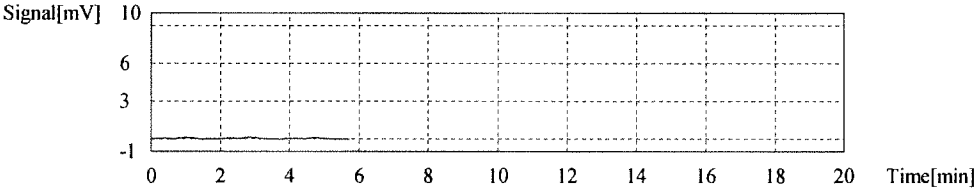
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06803mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2685	0.07989mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:39:41 PM
2	0.2751	0.08186mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:41:48 PM
3	0.1423	0.04234mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:43:56 PM

Mean Area 0.2286
Mean Conc. 0.06803mg/L



Sample

Sample Name: LCS-01302023
Sample ID: 3100606203
Origin: 12_22_2022.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.05mg/L

1. Det

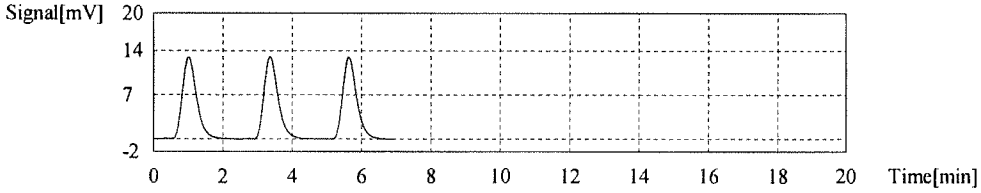
Anal.: NPOC

TOC-Control L Report

2023_01_30_001.tlx

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.04	11.02mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:53:02 PM
2	37.68	11.21mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:55:30 PM
3	36.71	10.92mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 3:58:00 PM

Mean Area 37.14
Mean Conc. 11.05mg/L



Sample

Sample Name: LCSD-01302023
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

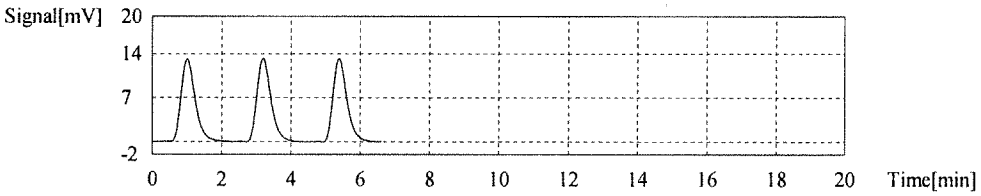
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.18mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.43	11.14mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 4:06:57 PM
2	37.97	11.30mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 4:09:25 PM
3	37.30	11.10mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 4:11:50 PM

Mean Area 37.57
Mean Conc. 11.18mg/L



Sample

Sample Name: HS23011136-01
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.477mg/L

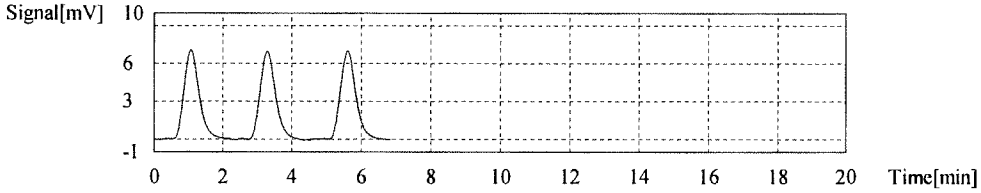
1. Det

TOC-Control L Report

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.49	6.394mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 4:46:56 PM
2	22.15	6.591mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 4:49:28 PM
3	21.66	6.445mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 4:52:00 PM

Mean Area 21.77
Mean Conc. 6.477mg/L



Sample

Sample Name: HS23011136-02
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

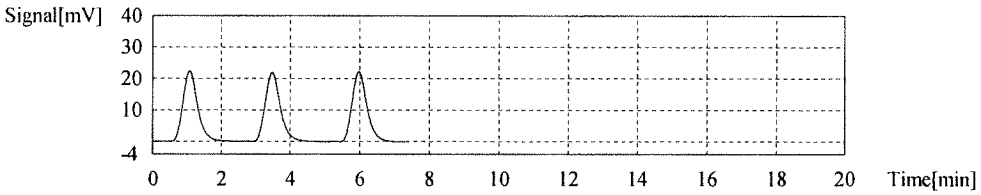
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	66.88	19.90mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:01:09 PM
2	67.53	20.09mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:03:55 PM
3	66.51	19.79mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:06:32 PM

Mean Area 66.97
Mean Conc. 19.93mg/L



Sample

Sample Name: HS23011136-03
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:91.46mg/L

TOC-Control L Report

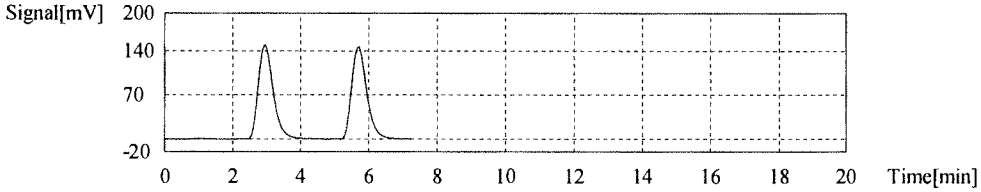
2023_01_30_001.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.051	0.6103mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:15:11 PM
2	463.6	137.9mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:18:10 PM
3	456.5	135.8mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:20:59 PM

Mean Area 307.4
Mean Conc. 91.46mg/L



Sample

Sample Name: HS23011136-04
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

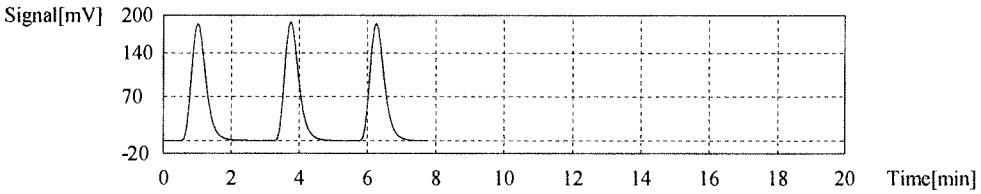
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:166.0mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	559.0	166.3mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:30:29 PM
2	559.0	166.3mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:33:14 PM
3	555.9	165.4mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:35:59 PM

Mean Area 558.0
Mean Conc. 166.0mg/L



Sample

Sample Name: HS23011136-04MS
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

TOC-Control L Report

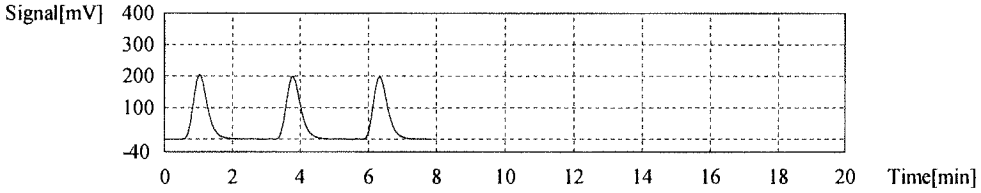
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:177.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	599.1	178.3mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:45:29 PM
2	596.4	177.5mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:48:19 PM
3	590.4	175.7mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 5:51:05 PM

Mean Area 595.3
Mean Conc. 177.1mg/L



Sample

Sample Name: CCV
Sample ID: 321100711
Origin: 12_22_2022.cal
Status Completed
Chk. Result

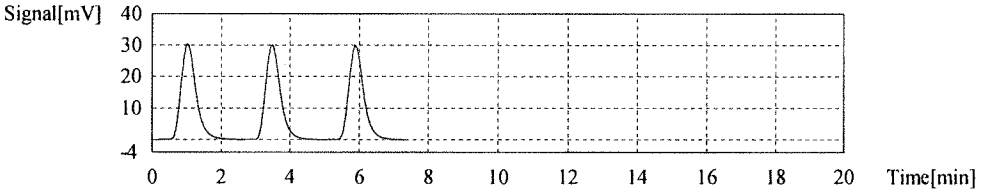
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.87mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.08	27.10mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:00:28 PM
2	90.18	26.83mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:03:07 PM
3	89.70	26.69mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:05:50 PM

Mean Area 90.32
Mean Conc. 26.87mg/L



Sample

TOC-Control L Report

2023_01_30_001.tlx

Sample Name: CCB
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

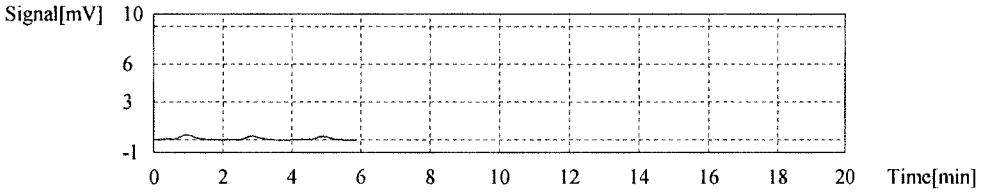
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2545mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9031	0.2687mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:14:29 PM
2	1.059	0.3151mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:16:46 PM
3	0.6040	0.1797mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:18:53 PM

Mean Area 0.8554
Mean Conc. 0.2545mg/L



Sample

Sample Name: HS23011136-05
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

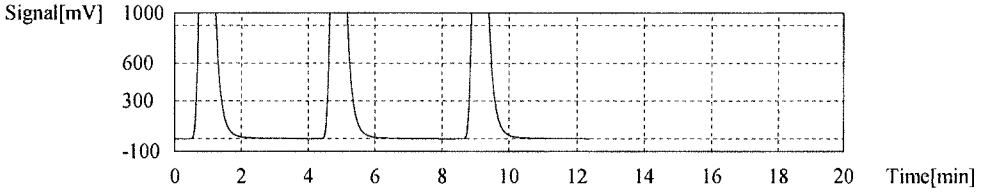
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1555mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5192	1545mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:29:41 PM
2	5240	1559mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:34:11 PM
3	5246	1561mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:38:36 PM

Mean Area 5226
Mean Conc. 1555mg/L



TOC-Control L Report

Sample

Sample Name: HS23011136-06
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

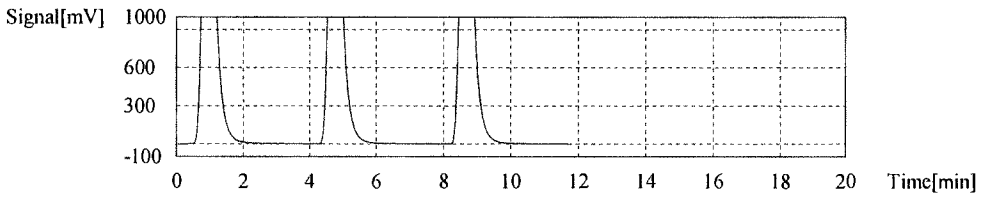
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1483mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4981	1482mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:49:10 PM
2	4989	1484mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:53:20 PM
3	4979	1482mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 6:57:33 PM

Mean Area 4983
Mean Conc. 1483mg/L



Sample

Sample Name: CCV
Sample ID: 321100711
Origin: 12_22_2022.cal
Status Completed
Chk. Result

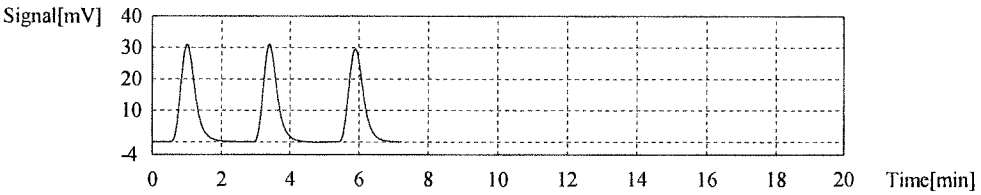
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.54mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.94	26.76mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 7:34:07 PM
2	89.02	26.49mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 7:36:52 PM
3	88.60	26.36mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 7:39:27 PM

Mean Area 89.19
Mean Conc. 26.54mg/L



TOC-Control L Report

2023_01_30_001.tlx

Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

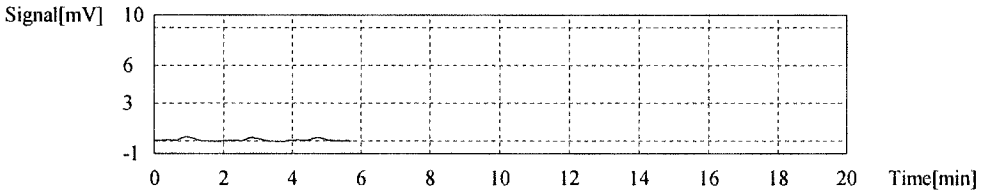
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2016mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6359	0.1892mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 7:48:06 PM
2	0.6281	0.1869mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 7:50:13 PM
3	0.7681	0.2286mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	1/30/2023 7:52:20 PM

Mean Area 0.6774
Mean Conc. 0.2016mg/L



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HS2301136

	Type	Analysis	Sample Nam	Sample ID	Origin	Manual Diluti	Result	Notes	Status
1	Standard	NPOC	CAL	3100606518	12_22_2022	1.000			Completed
2	Unknown	NPOC	ICV	3100606203	12_22_2022	1.000	NPOC:10.7		Completed
3	Unknown	NPOC	ICB		12_22_2022	1.000	NPOC:0.34		Completed

C:\TOC-L\Data\2022_12_22_002_CAL.tlx

	Date / Time	Vial
1	12/22/2022	1, 2, 3, 4, 5,
2	12/22/2022	8
3	12/22/2022	1

TOC-Control L Report

2022_12_22_002_CAL.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

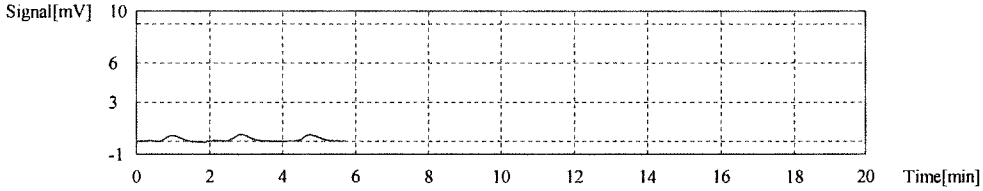
Sample Name:	CAL
Sample ID:	3100606518
Cal. Curve:	12_22_2022.2022_12_22_13_06_45.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.350	50uL	1.000	*******		12/22/2022 12:15:57 PM
2	1.448	50uL	1.000	*******		12/22/2022 12:18:06 PM
3	1.380	50uL	1.000	*******		12/22/2022 12:20:13 PM

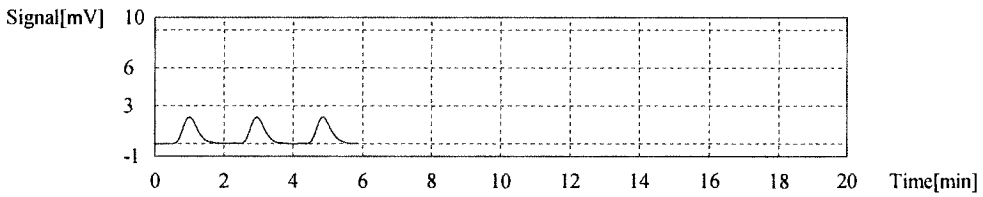
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	1.393



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.297	50uL	1.000	*******		12/22/2022 12:28:55 PM
2	5.988	50uL	1.000	*******		12/22/2022 12:31:02 PM
3	6.247	50uL	1.000	*******		12/22/2022 12:33:14 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	6.177



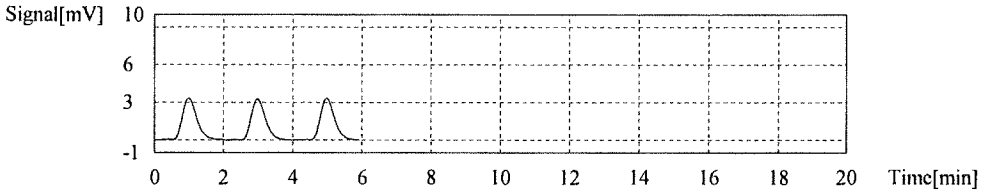
Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	9.406	50uL	1.000	*******		12/22/2022 12:41:58 PM
2	9.448	50uL	1.000	*******		12/22/2022 12:44:11 PM
3	9.385	50uL	1.000	*******		12/22/2022 12:46:20 PM

TOC-Control L Report

2022_12_22_002_CAL.tlx

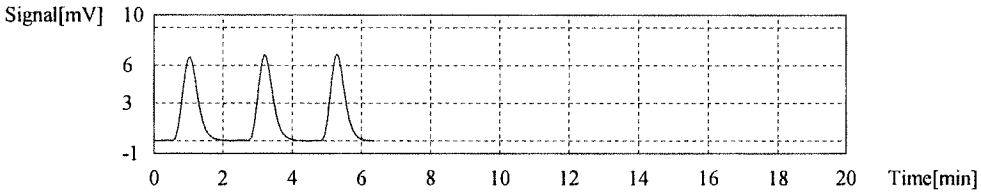
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 9.413



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.41	50uL	1.000	*******		12/22/2022 12:55:16 PM
2	20.23	50uL	1.000	*******		12/22/2022 12:57:35 PM
3	20.36	50uL	1.000	*******		12/22/2022 12:59:53 PM

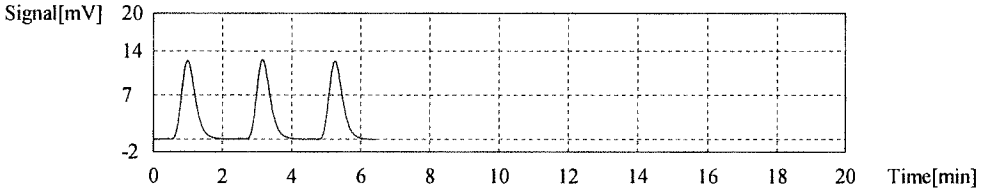
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 20.33



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	35.65	50uL	1.000	*******		12/22/2022 1:08:48 PM
2	35.20	50uL	1.000	*******		12/22/2022 1:11:07 PM
3	35.02	50uL	1.000	*******		12/22/2022 1:13:30 PM

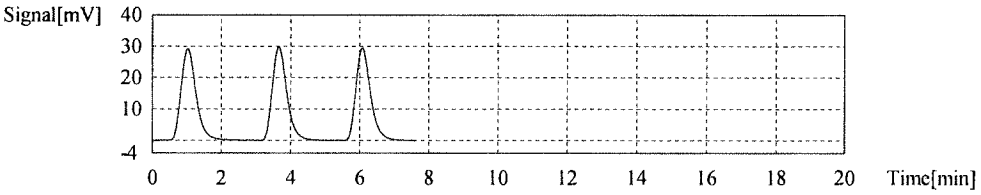
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 35.29



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	88.49	50uL	1.000	*******		12/22/2022 1:22:53 PM
2	87.55	50uL	1.000	*******		12/22/2022 1:25:34 PM
3	87.85	50uL	1.000	*******		12/22/2022 1:28:20 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 87.96



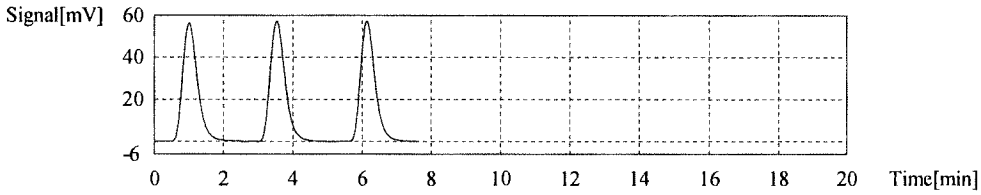
Conc: 50.00mg/L

TOC-Control L Report

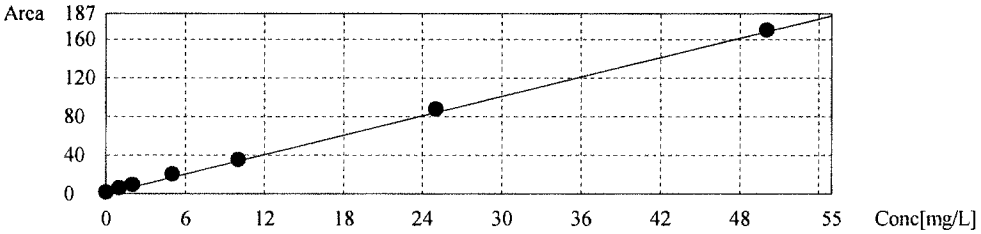
2022_12_22_002_CAL.tlx

No.	Area	Inj. Vol	Aut. Dil.	Rem.	Ex.	Date / Time
1	169.8	50uL	1.000	*******		12/22/2022 1:37:37 PM
2	171.3	50uL	1.000	*******		12/22/2022 1:40:28 PM
3	168.9	50uL	1.000	*******		12/22/2022 1:43:09 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 170.0



Slope: 3.361
Intercept 0.000
r^2 0.9998
r 0.9999
RSE(%) N/A
Zero Shift Yes



Sample

Sample Name. ICV
Sample ID: 3100606203
Origin: 12_22_2022.cal
Status Completed
Chk. Result

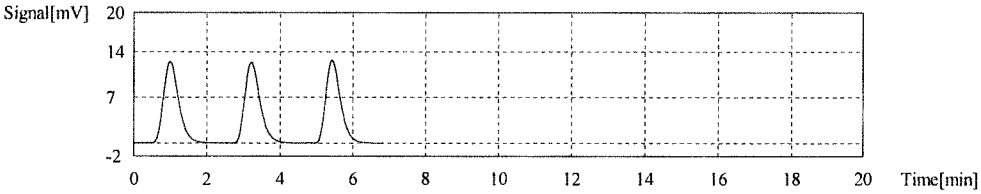
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.41	10.83mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:52:08 PM
2	36.34	10.81mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:54:34 PM
3	36.03	10.72mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:57:10 PM

Mean Area 36.26
Mean Conc. 10.79mg/L



Sample

TOC-Control L Report

2022_12_22_002_CAL.tlx

Sample Name: ICB
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

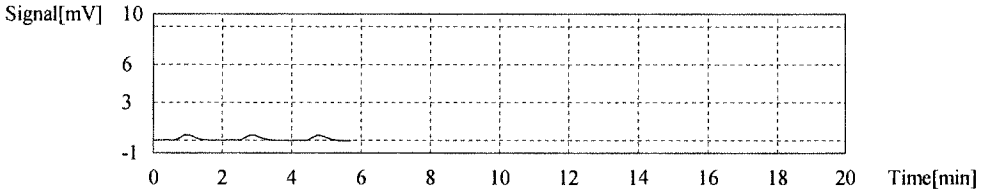
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3481mg/L

1. Det

Anal.: NPOC

No.	Area	Conc	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.237	0.3681mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:06:02 PM
2	1.118	0.3327mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:08:10 PM
3	1.155	0.3437mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:10:18 PM

Mean Area 1.170
Mean Conc. 0.3481mg/L



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	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	321102607	12_22_2022	1.000	NPOC:25.14mg/L	
2	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.2619mg/	
3	Unknown	NPOC	MBLK-02062023		12_22_2022	1.000	NPOC:0.2609mg/	
4	Unknown	NPOC	LCS-02062023	3100606203	12_22_2022	1.000	NPOC:10.27mg/L	
5	Unknown	NPOC	LCSD-02062023		12_22_2022	1.000	NPOC:10.39mg/L	
6	Unknown	NPOC	HS23011136-03DF10		12_22_2022	1.000	NPOC:11.03mg/L	
7	Unknown	NPOC	HS23011136-04DF10		12_22_2022	1.000	NPOC:12.16mg/L	
8	Unknown	NPOC	HS23011136-04MSDF10		12_22_2022	1.000	NPOC:25.34mg/L	
9	Unknown	NPOC	HS23011136-05DF100		12_22_2022	1.000	NPOC:19.34mg/L	
10	Unknown	NPOC	HS23011136-06DF100		12_22_2022	1.000	NPOC:16.61mg/L	
11	Unknown	NPOC	CCV	321102607	12_22_2022	1.000	NPOC:24.58mg/L	
12	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.1933mg/	

C:\TOC-L\Data\2023_02_07_001.tlx

	Status	Date / Time	Vial
1	Completed	2/7/2023 12:40:34	1
2	Completed	2/7/2023 12:52:54	2
3	Completed	2/7/2023 1:05:14 P	3
4	Completed	2/7/2023 1:18:53 P	4
5	Completed	2/7/2023 1:32:42 P	5
6	Completed	2/7/2023 1:46:51 P	6
7	Completed	2/7/2023 2:00:38 P	7
8	Completed	2/7/2023 2:15:23 P	8
9	Completed	2/7/2023 2:29:32 P	9
10	Completed	2/7/2023 2:43:34 P	10
11	Completed	2/7/2023 3:29:21 P	1
12	Completed	2/7/2023 3:41:41 P	2

TOC-Control L Report

2023_02_07_001.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 321102607
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result:

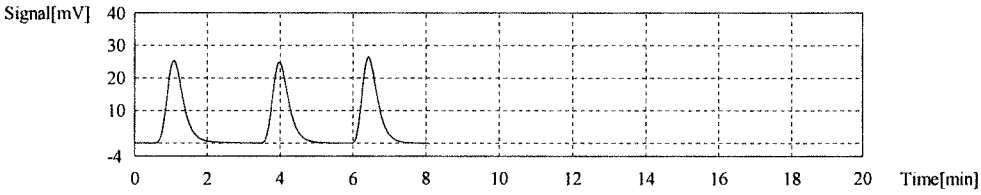
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.01	25.53mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 12:35:00 PM
2	79.51	24.75mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 12:37:47 PM
3	80.69	25.12mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 12:40:34 PM

Mean Area: 80.74
Mean Conc.: 25.14mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2619mg/L

1. Det

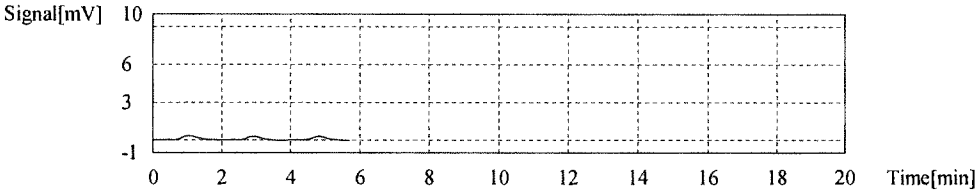
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9342	0.2909mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 12:48:38 PM
2	0.8092	0.2519mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 12:50:46 PM
3	0.7800	0.2428mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 12:52:54 PM

TOC-Control L Report

2023_02_07_001.tlx

Mean Area 0.8411
Mean Conc. 0.2619mg/L



Sample

Sample Name: MBLK-02062023
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

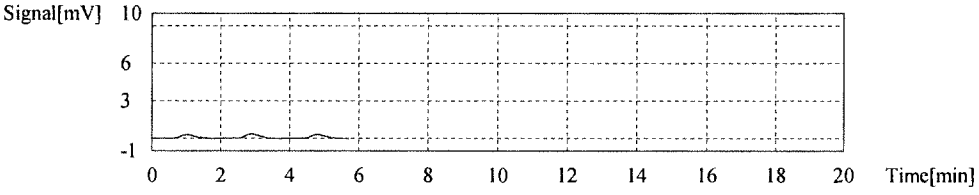
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2609mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6985	0.2175mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:00:58 PM
2	0.9830	0.3060mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:03:06 PM
3	0.8321	0.2591mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:05:14 PM

Mean Area 0.8379
Mean Conc. 0.2609mg/L



Sample

Sample Name: LCS-02062023
Sample ID: 3100606203
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.27mg/L

1. Det

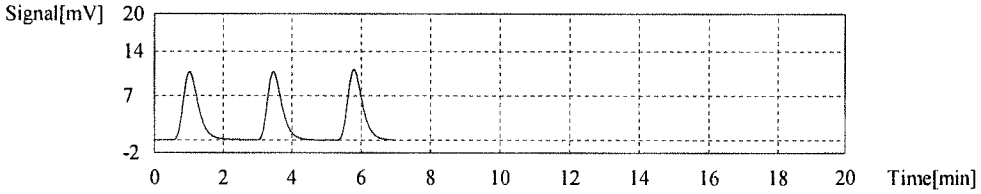
Anal.: NPOC

TOC-Control L Report

2023_02_07_001.tlx

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.67	10.17mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:13:52 PM
2	32.45	10.10mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:16:26 PM
3	33.82	10.53mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:18:53 PM

Mean Area 32.98
Mean Conc. 10.27mg/L



Sample

Sample Name: LCSD-02062023
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

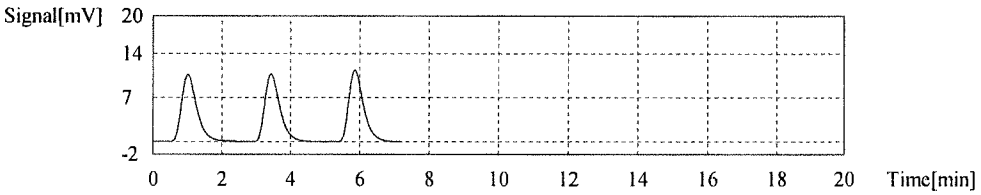
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.67	10.17mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:27:27 PM
2	33.22	10.34mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:30:09 PM
3	34.25	10.66mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:32:42 PM

Mean Area 33.38
Mean Conc. 10.39mg/L



Sample

Sample Name: HS23011136-03DF10
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.03mg/L

1. Det

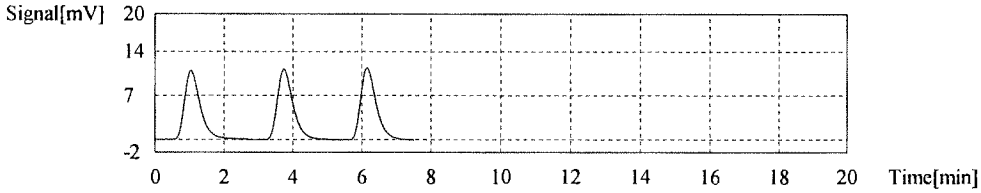
TOC-Control L Report

2023_02_07_001.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.46	10.73mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:41:32 PM
2	35.69	11.11mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:44:13 PM
3	36.16	11.26mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:46:51 PM

Mean Area 35.44
Mean Conc. 11.03mg/L



Sample

Sample Name: HS23011136-04DF10
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

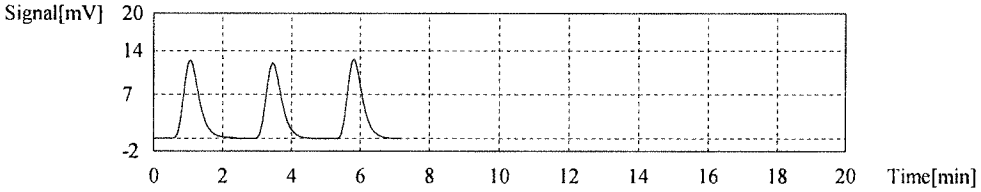
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	39.08	12.17mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:55:24 PM
2	38.30	11.92mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 1:58:02 PM
3	39.78	12.39mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:00:38 PM

Mean Area 39.05
Mean Conc. 12.16mg/L



Sample

Sample Name: HS23011136-04MSDF10
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.34mg/L

TOC-Control L Report

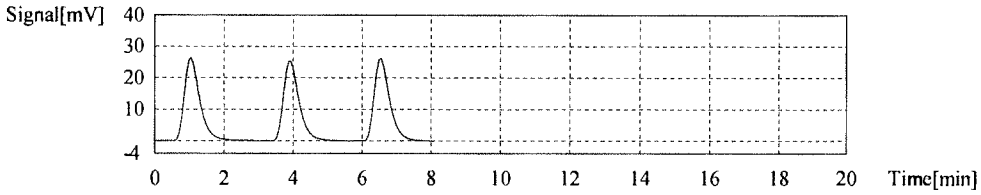
2023_02_07_001.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.28	25.31mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:09:38 PM
2	80.75	25.14mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:12:33 PM
3	82.18	25.59mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:15:23 PM

Mean Area 81.40
Mean Conc. 25.34mg/L



Sample

Sample Name: HS23011136-05DF100
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

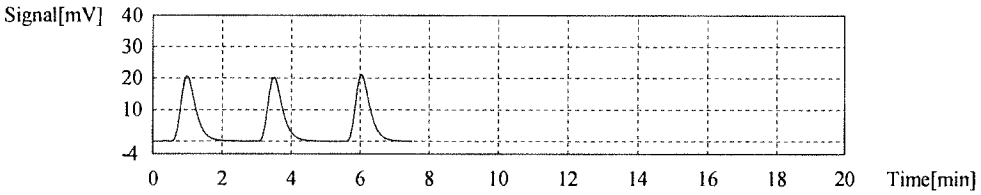
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.34mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.85	19.26mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:24:03 PM
2	61.29	19.08mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:26:52 PM
3	63.22	19.68mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:29:32 PM

Mean Area 62.12
Mean Conc. 19.34mg/L



Sample

Sample Name: HS23011136-06DF100
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

TOC-Control L Report

2023_02_07_001.tlx

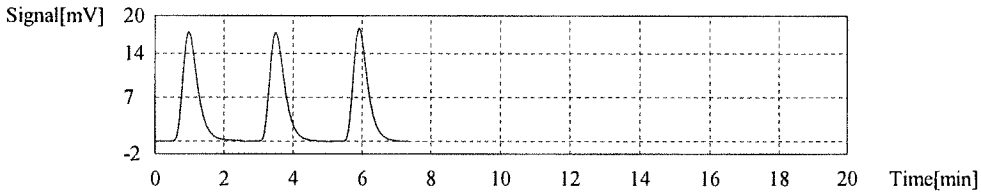
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:16.61mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	52.77	16.43mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:38:12 PM
2	53.02	16.51mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:40:53 PM
3	54.26	16.89mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 2:43:34 PM

Mean Area 53.35
Mean Conc. 16.61mg/L



Sample

Sample Name: CCV
Sample ID: 321102607
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

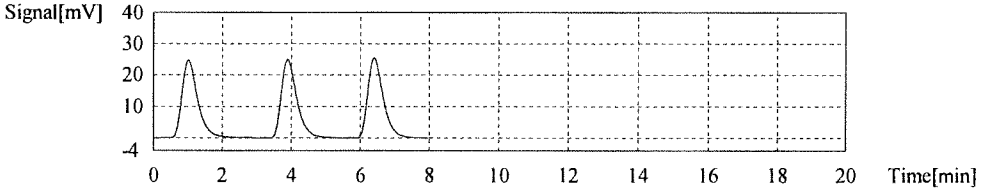
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.58mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.46	24.43mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 3:23:47 PM
2	78.66	24.49mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 3:26:32 PM
3	79.77	24.84mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 3:29:21 PM

Mean Area 78.96
Mean Conc. 24.58mg/L



Sample

TOC-Control L Report

2023_02_07_001.tlx

Sample Name: CCB
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

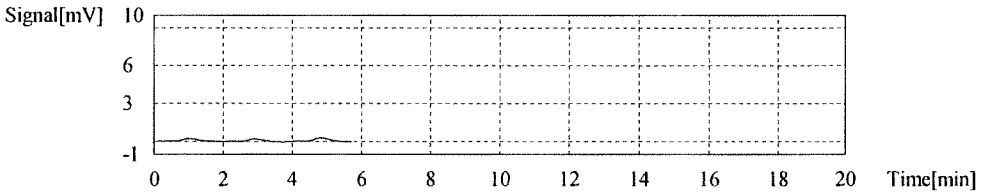
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1933mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil	Ex.	Cal. Curve	Date / Time
1	0.4930	0.1535mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 3:37:25 PM
2	0.6341	0.1974mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 3:39:33 PM
3	0.7355	0.2290mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	2/7/2023 3:41:41 PM

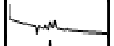
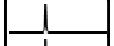
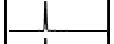
Mean Area 0.6209
Mean Conc. 0.1933mg/L



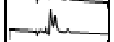
HS23011136 9056_W IC

ALS WO# HS23011136

Sequence: 012423
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	BA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	BA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	BA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	BA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	BA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	BA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	BA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	BA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-04DF5		Unknown	BB4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-04MSDF5		Unknown	BB5	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-04MSDDF		Unknown	BB6	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-04DF50		Unknown	BB7	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-01DF5		Unknown	BB8	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-01DF50		Unknown	BC1	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-02DF5		Unknown	BC2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-02DF100		Unknown	BC3	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-03DF5		Unknown	BC4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-03DF50		Unknown	BC5	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-05DF5		Unknown	BC6	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-05DF50		Unknown	BC7	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-06DF5		Unknown	BC8	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23011136-06DF50		Unknown	BD1	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 012423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	1/23/2023 2:36:57 PM -06:00
Anions Processing Method ISO		STD2	5.0	Finished	1/23/2023 2:42:45 PM -06:00
Anions Processing Method ISO		STD3	5.0	Finished	1/23/2023 2:48:34 PM -06:00
Anions Processing Method ISO		STD4	5.0	Finished	1/23/2023 2:54:22 PM -06:00
Anions Processing Method ISO		STD5	5.0	Finished	1/23/2023 3:00:10 PM -06:00
Anions Processing Method ISO		STD6	5.0	Finished	1/23/2023 3:05:59 PM -06:00
Anions Processing Method ISO		ICV	5.0	Finished	1/23/2023 3:11:47 PM -06:00
Anions Processing Method ISO		ICB	5.0	Finished	1/23/2023 3:17:35 PM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	1/25/2023 12:05:26 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	1/25/2023 12:11:14 AM -06:00
Anions Processing Method ISO		MBLK	5.0	Finished	1/25/2023 12:22:49 AM -06:00
Anions Processing Method ISO		LCS	5.0	Finished	1/25/2023 12:28:36 AM -06:00
Anions Processing Method ISO		HS23011136-04DF5	5.0	Finished	1/25/2023 12:34:24 AM -06:00
Anions Processing Method ISO		HS23011136-04MSDF5	5.0	Finished	1/25/2023 12:40:11 AM -06:00
Anions Processing Method ISO		HS23011136-04MSDDF	5.0	Finished	1/25/2023 12:45:58 AM -06:00
Anions Processing Method ISO		HS23011136-04DF50	5.0	Finished	1/25/2023 12:51:46 AM -06:00
Anions Processing Method ISO		HS23011136-01DF5	5.0	Finished	1/25/2023 12:57:33 AM -06:00
Anions Processing Method ISO		HS23011136-01DF50	5.0	Finished	1/25/2023 1:03:20 AM -06:00
Anions Processing Method ISO		HS23011136-02DF5	5.0	Finished	1/25/2023 1:09:08 AM -06:00
Anions Processing Method ISO		HS23011136-02DF100	5.0	Finished	1/25/2023 1:14:55 AM -06:00
Anions Processing Method ISO		CCV	5.0	Finished	1/25/2023 1:32:16 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	1/25/2023 1:38:03 AM -06:00
Anions Processing Method ISO		HS23011136-03DF5	5.0	Finished	1/25/2023 1:49:38 AM -06:00
Anions Processing Method ISO		HS23011136-03DF50	5.0	Finished	1/25/2023 1:55:25 AM -06:00
Anions Processing Method ISO		HS23011136-05DF5	5.0	Finished	1/25/2023 2:01:12 AM -06:00
Anions Processing Method ISO		HS23011136-05DF50	5.0	Finished	1/25/2023 2:06:59 AM -06:00
Anions Processing Method ISO		HS23011136-06DF5	5.0	Finished	1/25/2023 2:12:46 AM -06:00
Anions Processing Method ISO		HS23011136-06DF50	5.0	Finished	1/25/2023 2:18:33 AM -06:00
Anions Processing Method ISO		CCV1	5.0	Finished	1/25/2023 2:35:55 AM -06:00
Anions Processing Method ISO		CCB	5.0	Finished	1/25/2023 2:41:42 AM -06:00

Sequence: 012623
Injection #6: STD6

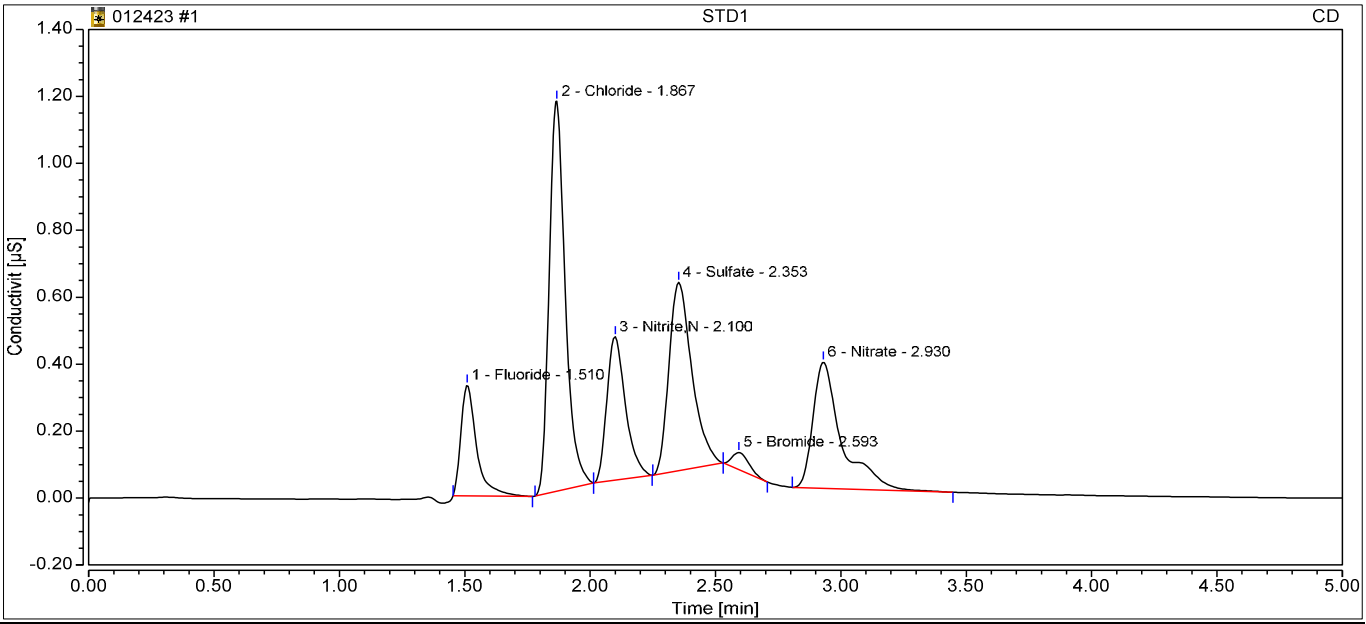
Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Lin, WithOffset, 1/A***	***Area***	***6***	***18.2600***	***0.99823***	***0.0003***	***0.2594***	***0.0000***
2	Chloride	Lin, WithOffset, 1/A	Area	6	3.9326	0.99992	-0.0034	0.1716	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	6.5665	0.99976	0.0001	0.3625	-0.0059
4	Sulfate	Lin, WithOffset, 1/A	Area	6	7.0089	0.99974	0.0018	0.1125	0.0000
5	Bromide	Lin, WithOffset, 1/A	Area	6	21.3247	0.99813	-0.0031	0.0579	0.0000
6	Nitrate	Lin, WithOffset, 1/A	Area	6	8.6115	0.99956	0.0097	0.3471	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	5	14.8871	0.99687	-0.0004	0.0060	-0.0001
8	Phosphate	Lin, WithOffset, 1/A	Area	2	n.a.	1.00000	-0.4901	0.1278	0.0000
Maximum					**21.3247**	1.00000			
Minimum					3.9326	**0.99687**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**BA1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 14:36**	*Sample Weight:*	**1.0000**

Run Time:

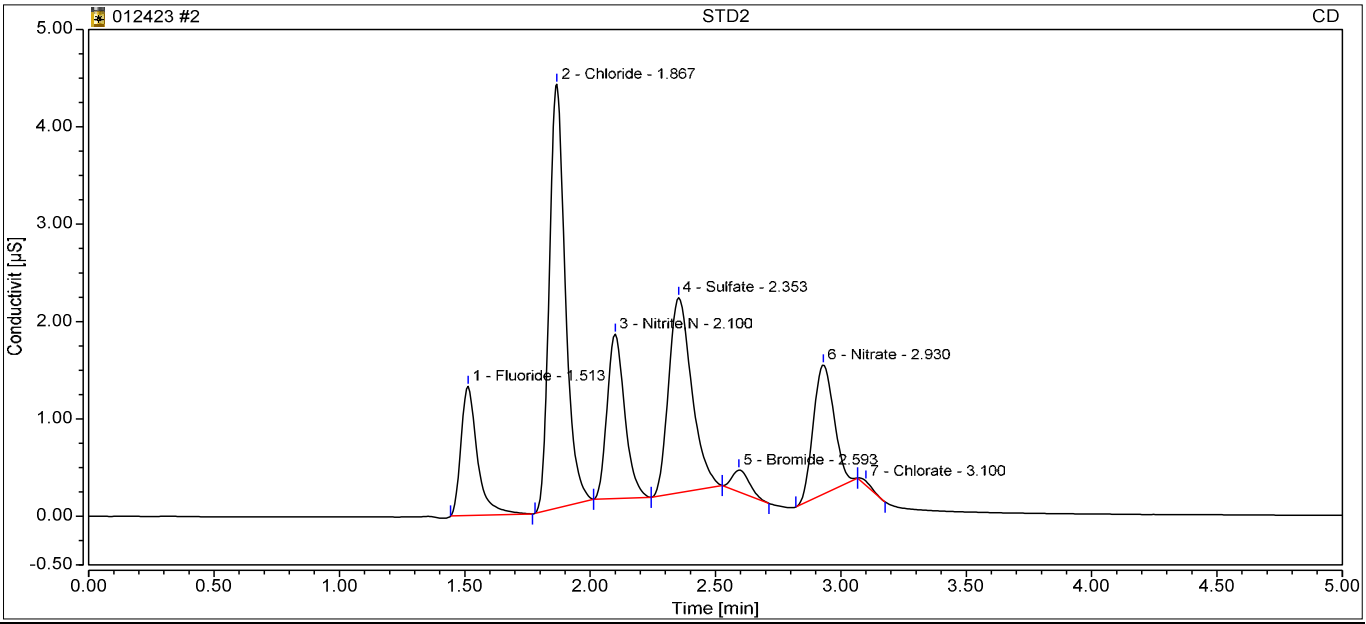


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.024	0.0916	0.0916	1.0000
2	1.87	Chloride	BMB	0.087	0.5248	0.5248	1.0000
3	2.10	Nitrite,N	BMB	0.037	0.1020	0.1020	1.0000
4	2.35	Sulfate	BMB	0.060	0.5165	0.5165	1.0000
5	2.59	Bromide	BMB	0.004	0.1232	0.1232	1.0000
6	2.93	Nitrate	BMB	0.050	0.1161	0.1161	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.262**		**1.47**	

2 STD2			
Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**BA2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 14:42**	*Sample Weight:*	**1.0000**

Run Time:



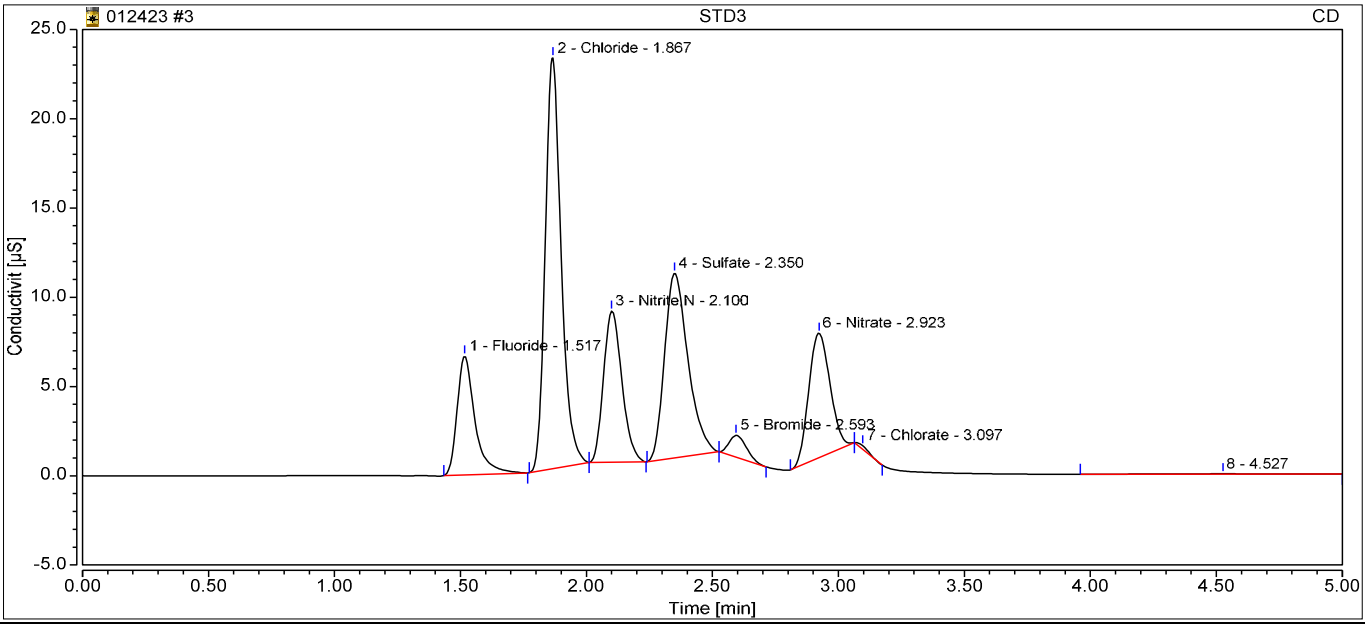
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.101	0.3891	0.3891	1.0000
2	1.87	Chloride	BMB	0.323	1.9022	1.9022	1.0000
3	2.10	Nitrite,N	BMB	0.138	0.3825	0.3825	1.0000
4	2.35	Sulfate	BMB	0.215	1.8922	1.8922	1.0000
5	2.59	Bromide	BMB	0.018	0.3682	0.3682	1.0000
6	2.93	Nitrate	BMB	0.128	0.3409	0.3409	1.0000
7	3.10	Chlorate	BMB	0.002	0.4193	0.4193	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.925**		**5.69**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**BA3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 14:48**	*Sample Weight:*	**1.0000**

Run Time:



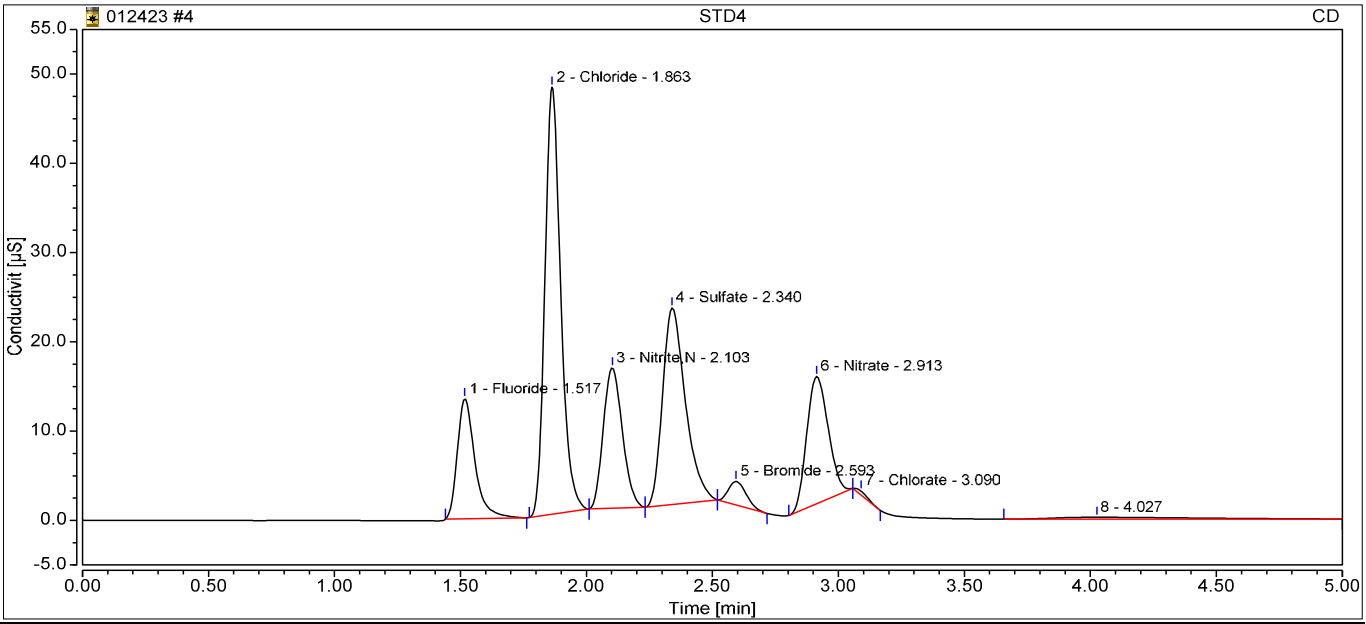
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.545	2.1003	2.1003	1.0000
2	1.87	Chloride	BMB	1.685	9.8413	9.8413	1.0000
3	2.10	Nitrite,N	BMB	0.715	2.0394	2.0394	1.0000
4	2.35	Sulfate	BMB	1.114	9.8924	9.8924	1.0000
5	2.59	Bromide	BMB	0.099	1.7671	1.7671	1.0000
6	2.92	Nitrate	BMB	0.683	1.9402	1.9402	1.0000
7	3.10	Chlorate	BMB	0.010	1.7695	1.7695	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.851**		**29.35**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**BA4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 14:54**	*Sample Weight:*	**1.0000**

Run Time:



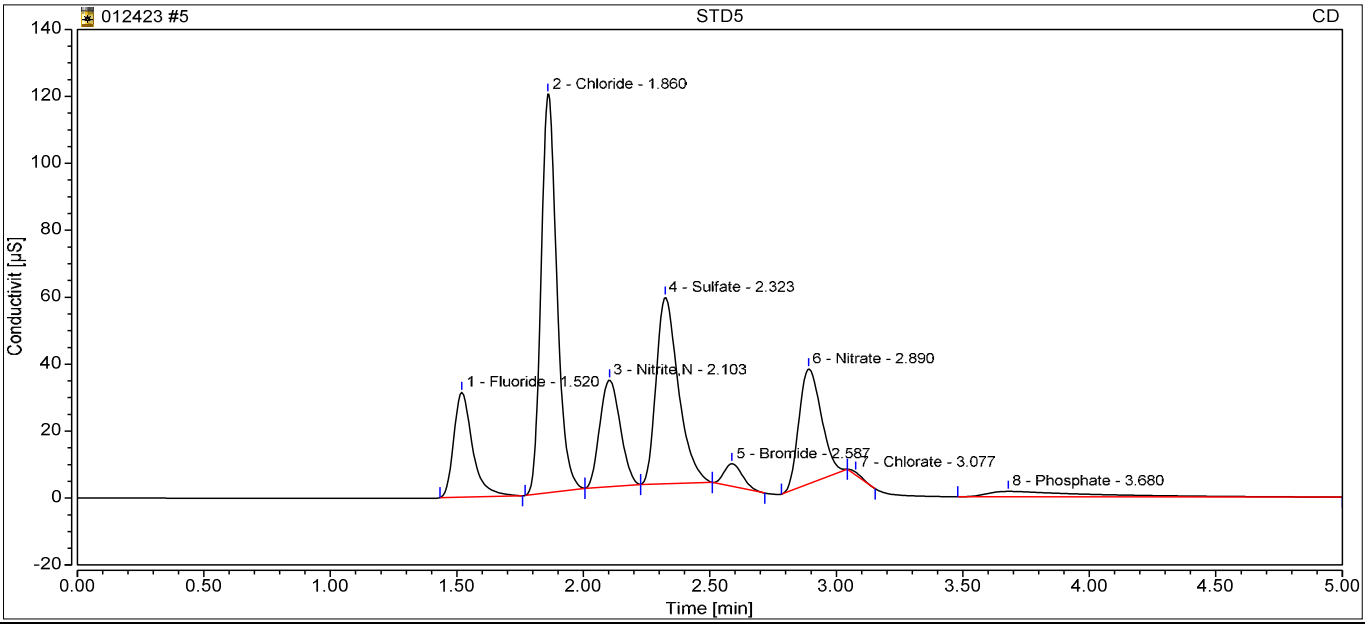
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	1.096	4.2257	4.2257	1.0000
2	1.86	Chloride	BMB	3.473	20.2647	20.2647	1.0000
3	2.10	Nitrite,N	BMB	1.379	4.0759	4.0759	1.0000
4	2.34	Sulfate	BMB	2.316	20.5697	20.5697	1.0000
5	2.59	Bromide	BMB	0.216	3.7890	3.7890	1.0000
6	2.91	Nitrate	BMB	1.408	4.0269	4.0269	1.0000
7	3.09	Chlorate	BMB	0.023	4.3199	4.3199	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.911**		**61.27**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**BA5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 15:00**	*Sample Weight:*	**1.0000**

Run Time:



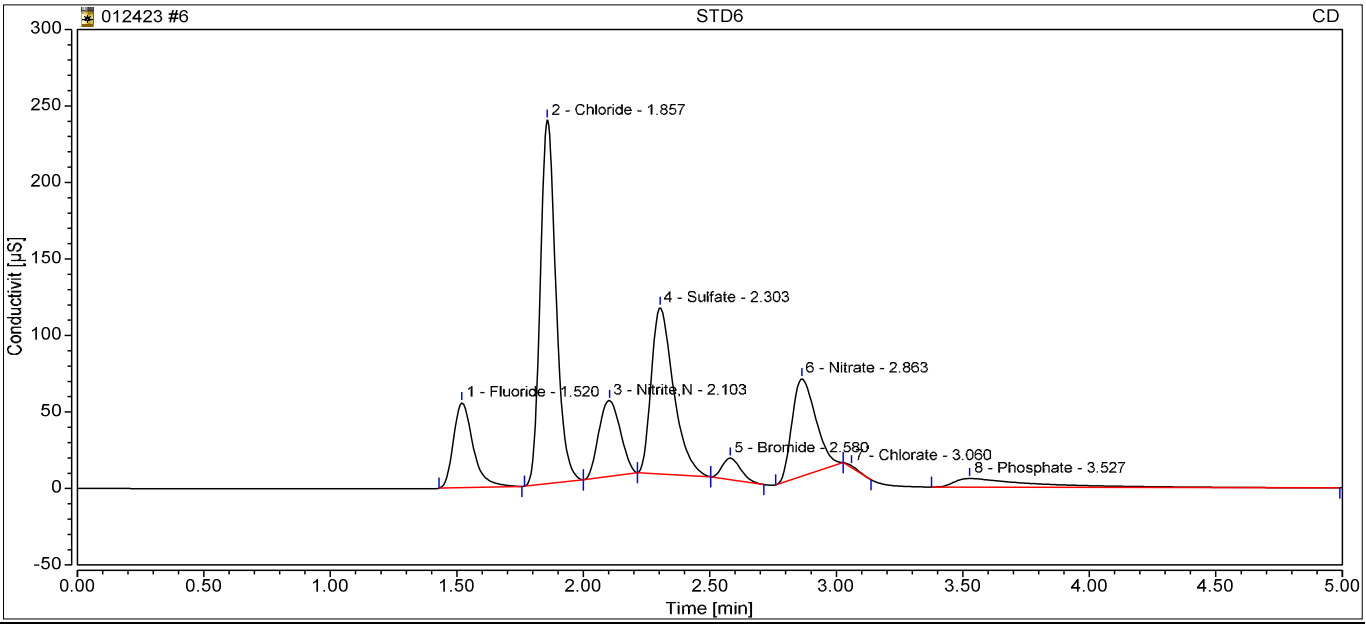
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	2.698	10.4020	10.4020	1.0000
2	1.86	Chloride	BMB	8.612	50.2171	50.2171	1.0000
3	2.10	Nitrite,N	BMB	2.980	9.7904	9.7904	1.0000
4	2.32	Sulfate	BMB	5.704	50.6918	50.6918	1.0000
5	2.59	Bromide	BMB	0.569	9.8884	9.8884	1.0000
6	2.89	Nitrate	BMB	3.525	10.1264	10.1264	1.0000
7	3.08	Chlorate	BMB	0.047	9.8667	9.8667	1.0000
8	3.68	Phosphate	BMB	0.787	10.0000	10.0000	1.0000
Total:			**0.000**	**24.922**		**160.98**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**BA6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 15:05**	*Sample Weight:*	**1.0000**

Run Time:



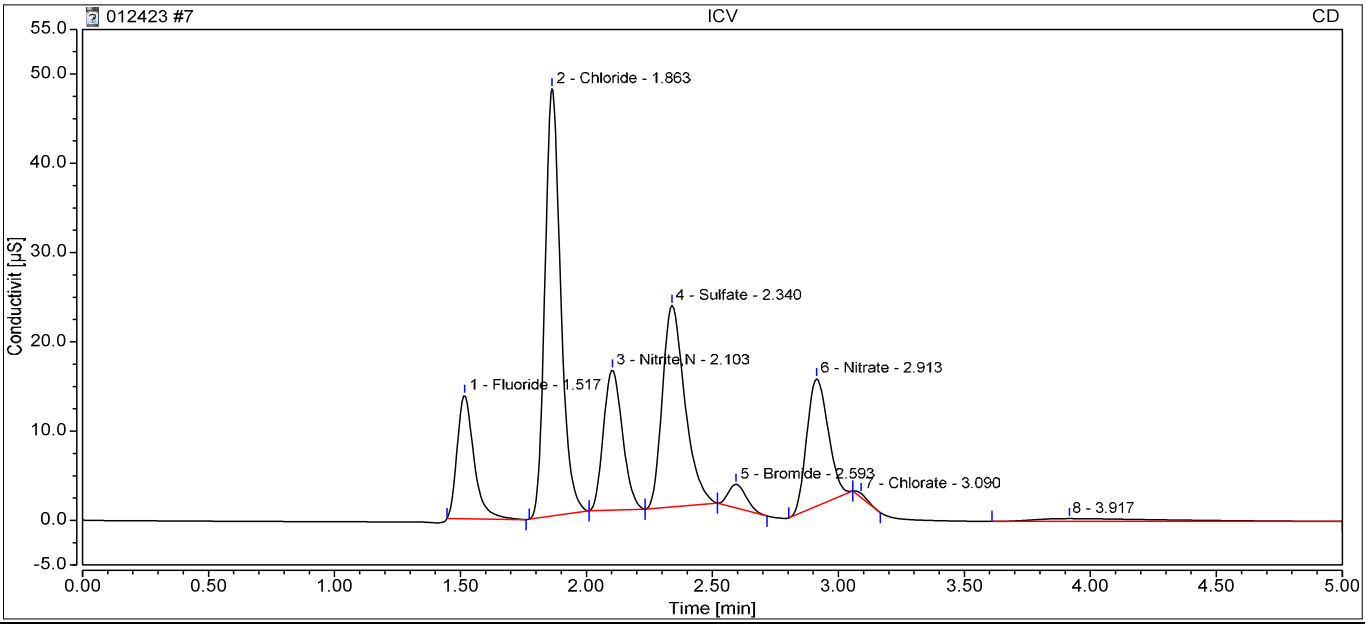
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	5.004	19.2913	19.2913	1.0000
2	1.86	Chloride	BMB	17.110	99.7497	99.7497	1.0000
3	2.10	Nitrite,N	BMB	4.894	20.1587	20.1587	1.0000
4	2.30	Sulfate	BMB	11.131	98.9373	98.9373	1.0000
5	2.58	Bromide	BMB	1.187	20.5641	20.5641	1.0000
6	2.86	Nitrate	BMB	6.935	19.9496	19.9496	1.0000
7	3.06	Chlorate	BMB	0.069	20.0446	20.0446	1.0000
8	3.53	Phosphate	BMB	2.065	20.0000	20.0000	1.0000
Total:			**0.000**	**48.395**		**318.70**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**BA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 15:11**	*Sample Weight:*	**1.0000**

Run Time:

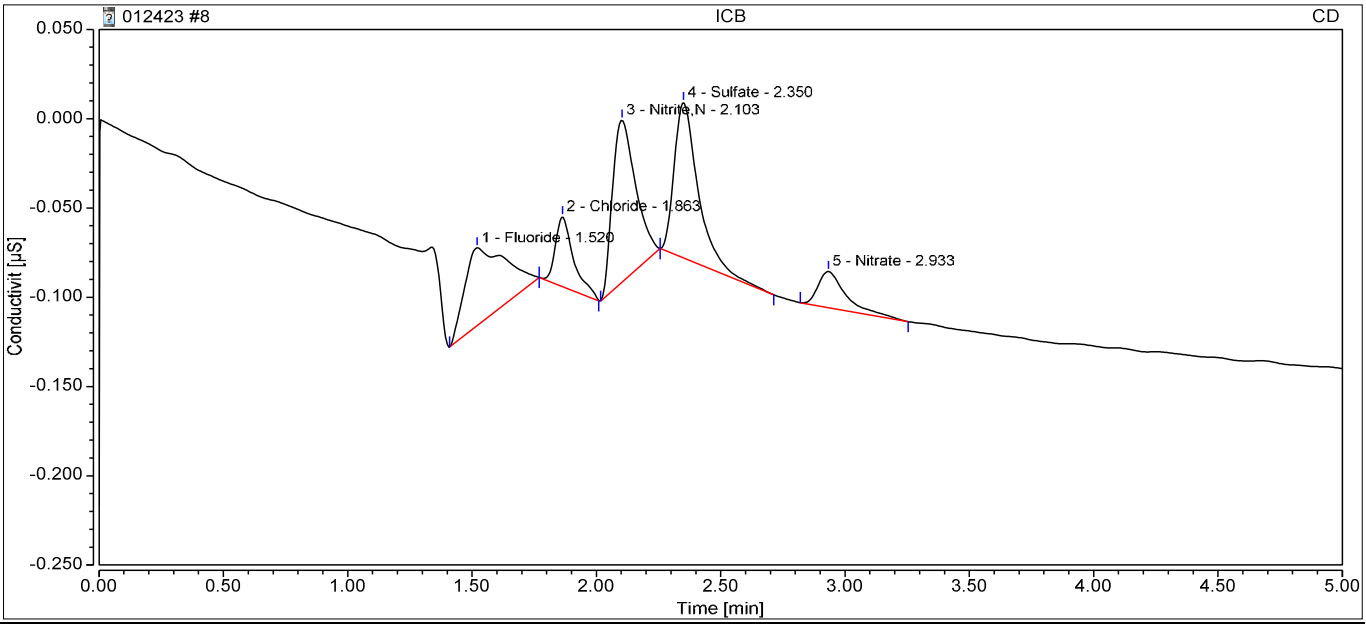


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	1.076	4.1460	4.1460	1.0000
2	1.86	Chloride	BMB	3.476	20.2807	20.2807	1.0000
3	2.10	Nitrite,N	BMB	1.374	4.0608	4.0608	1.0000
4	2.34	Sulfate	BMB	2.342	20.8027	20.8027	1.0000
5	2.59	Bromide	BMB	0.218	3.8222	3.8222	1.0000
6	2.91	Nitrate	BMB	1.407	4.0267	4.0267	1.0000
7	3.09	Chlorate	BMB	0.023	4.2714	4.2714	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.916**		**61.41**	

8 ICB			
Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**BA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/23/2023 15:17**	*Sample Weight:*	**1.0000**

Run Time:



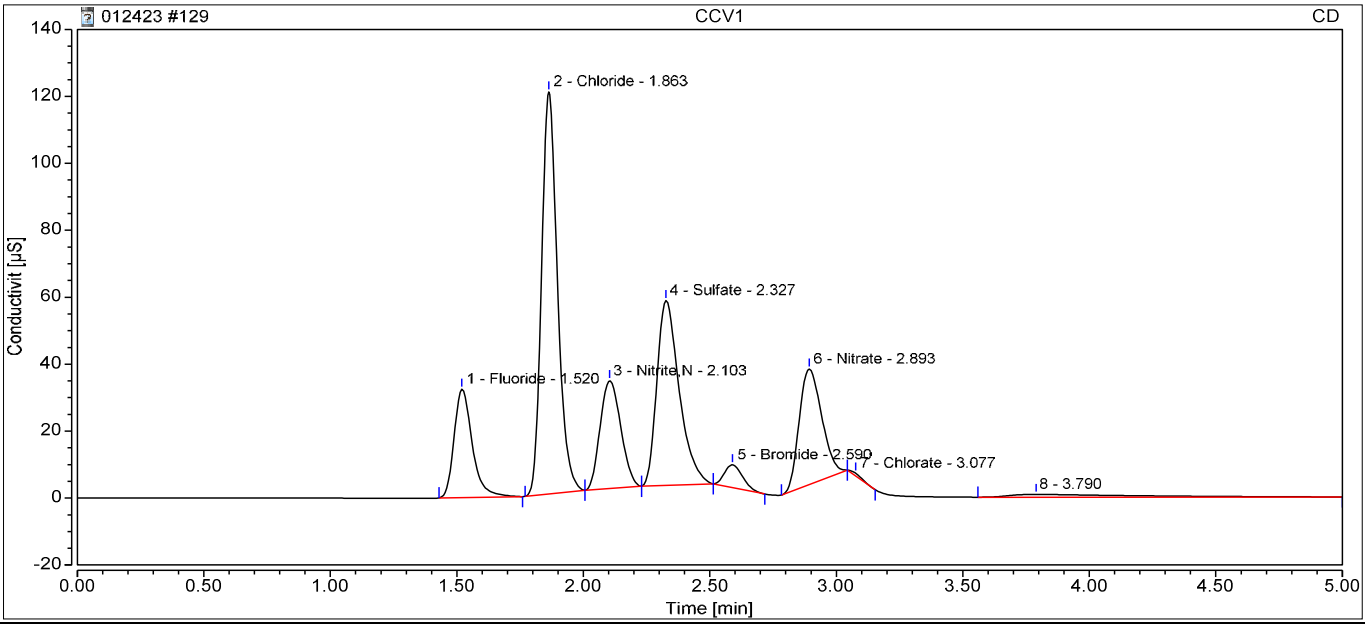
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.008	0.0297	0.0297	1.0000
2	1.86	Chloride	BMB	0.003	0.0390	0.0390	1.0000
3	2.10	Nitrite,N	BMB	0.010	0.0268	0.0268	1.0000
4	2.35	Sulfate	BMB	0.010	0.0714	0.0714	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
5	2.93	Nitrate	BMB	0.003	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.034**		**0.17**	

129 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 00:05**	*Sample Weight:*	**1.0000**

Run Time:



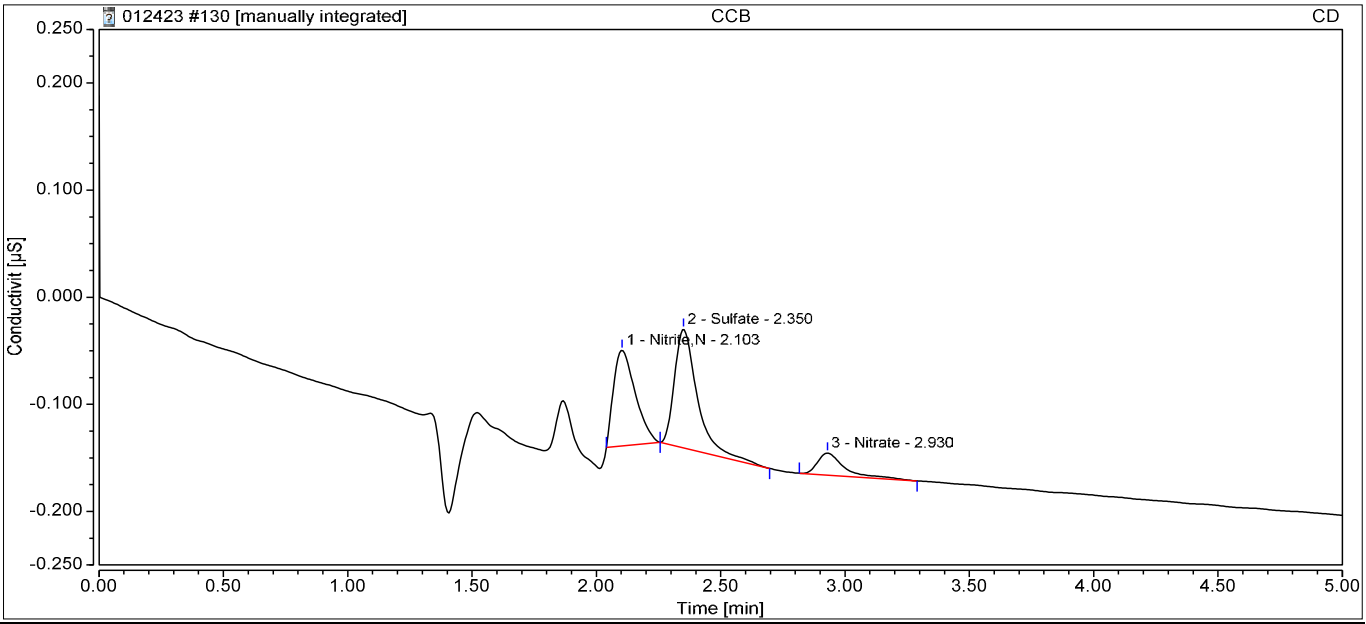
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	2.694	10.3849	10.3849	1.0000
2	1.86	Chloride	BMB	8.739	50.9556	50.9556	1.0000
3	2.10	Nitrite,N	BMB	3.040	10.0367	10.0367	1.0000
4	2.33	Sulfate	BMB	5.651	50.2251	50.2251	1.0000
5	2.59	Bromide	BMB	0.569	9.8738	9.8738	1.0000
6	2.89	Nitrate	BMB	3.561	10.2321	10.2321	1.0000
7	3.08	Chlorate	BMB	0.044	9.1940	9.1940	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**24.298**		**150.90**	

130 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 00:11**	*Sample Weight:*	**1.0000**

Run Time:



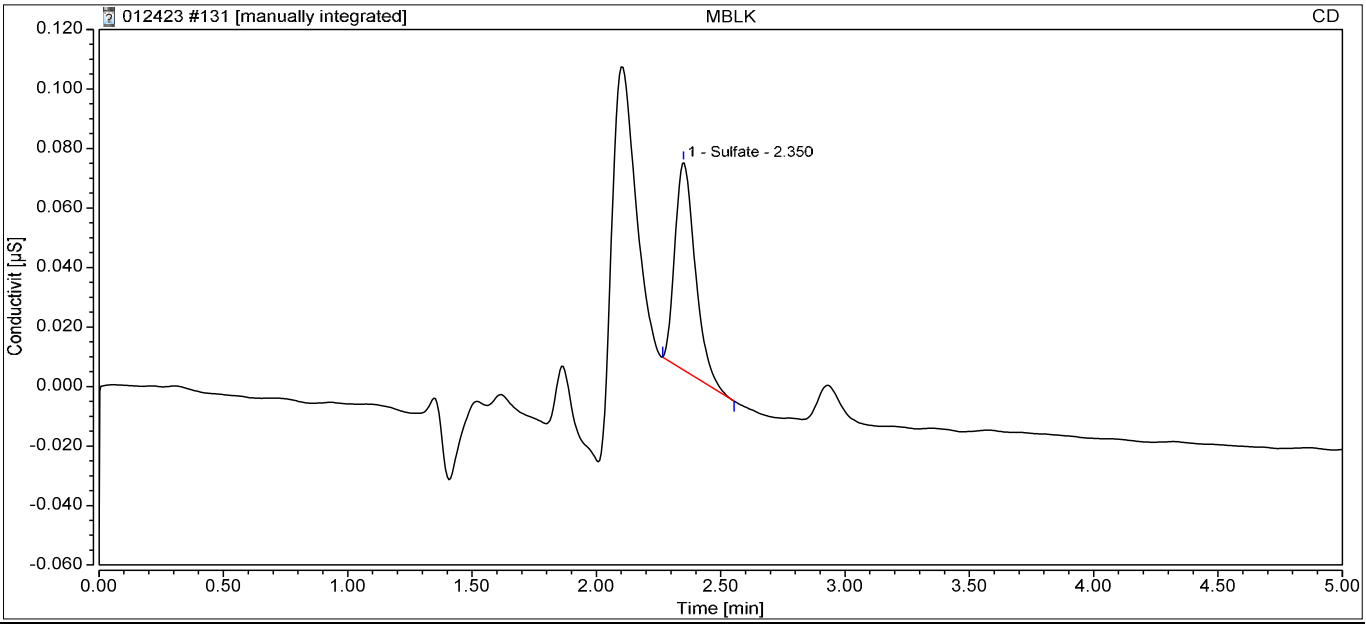
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.10	Nitrite,N	BMB*	0.009	0.0247	0.0247	1.0000
2	2.35	Sulfate	BMB	0.012	0.0900	0.0900	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.93	Nitrate	BMB	0.003	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.023**		**0.11**	

131 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 00:22**	*Sample Weight:*	**1.0000**

Run Time:



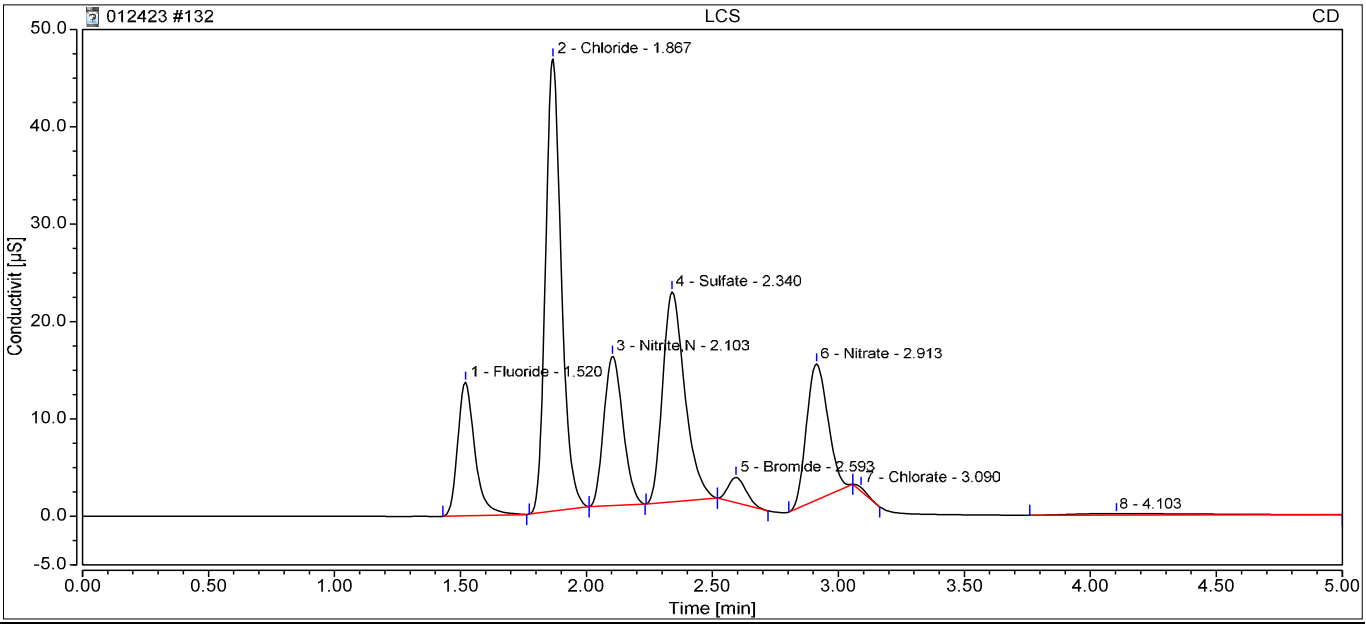
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.35	Sulfate	BMB	0.007	0.0437	0.0437	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.007**		**0.04**	

132 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 00:28**	*Sample Weight:*	**1.0000**

Run Time:



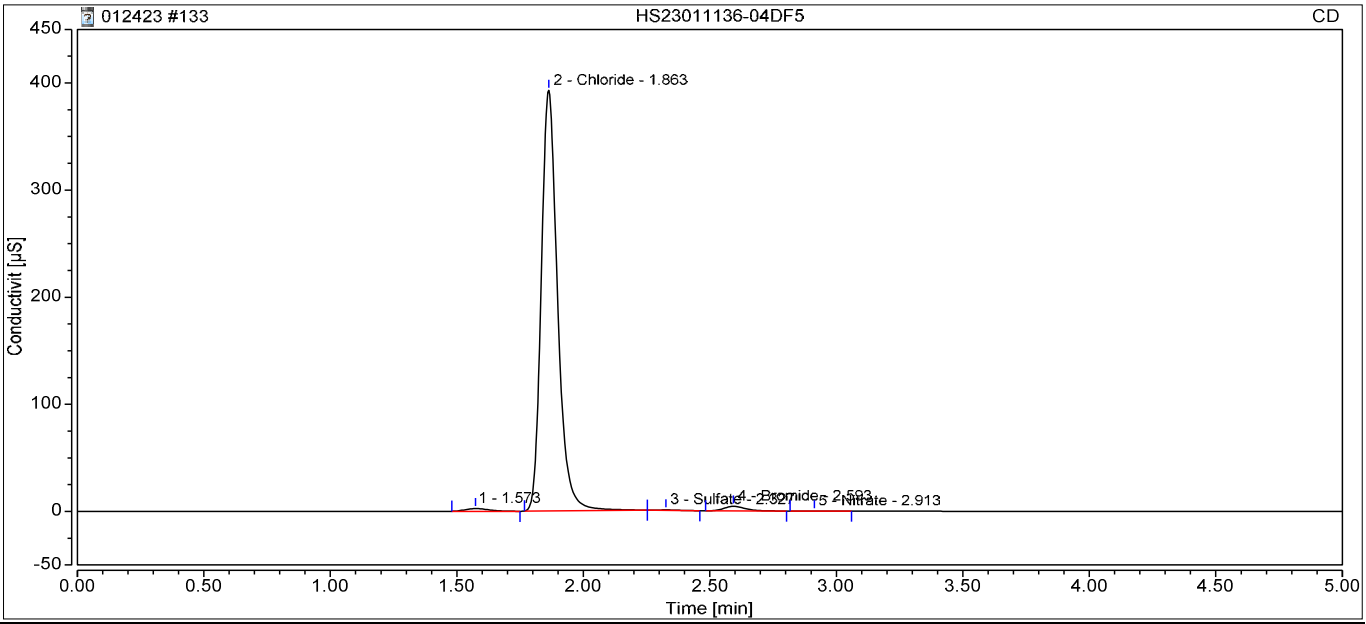
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	1.082	4.1715	4.1715	1.0000
2	1.87	Chloride	BMB	3.392	19.7888	19.7888	1.0000
3	2.10	Nitrite,N	BMB	1.350	3.9831	3.9831	1.0000
4	2.34	Sulfate	BMB	2.204	19.5764	19.5764	1.0000
5	2.59	Bromide	BMB	0.215	3.7708	3.7708	1.0000
6	2.91	Nitrate	BMB	1.384	3.9590	3.9590	1.0000
7	3.09	Chlorate	BMB	0.020	3.6225	3.6225	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.646**		**58.87**	

133 HS23011136-04DF5

Sample Name:	**HS23011136-04DF5**	*Injection Volume:*	**5.00**
Vial Number:	**BB4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 00:34**	*Sample Weight:*	**1.0000**

Run Time:



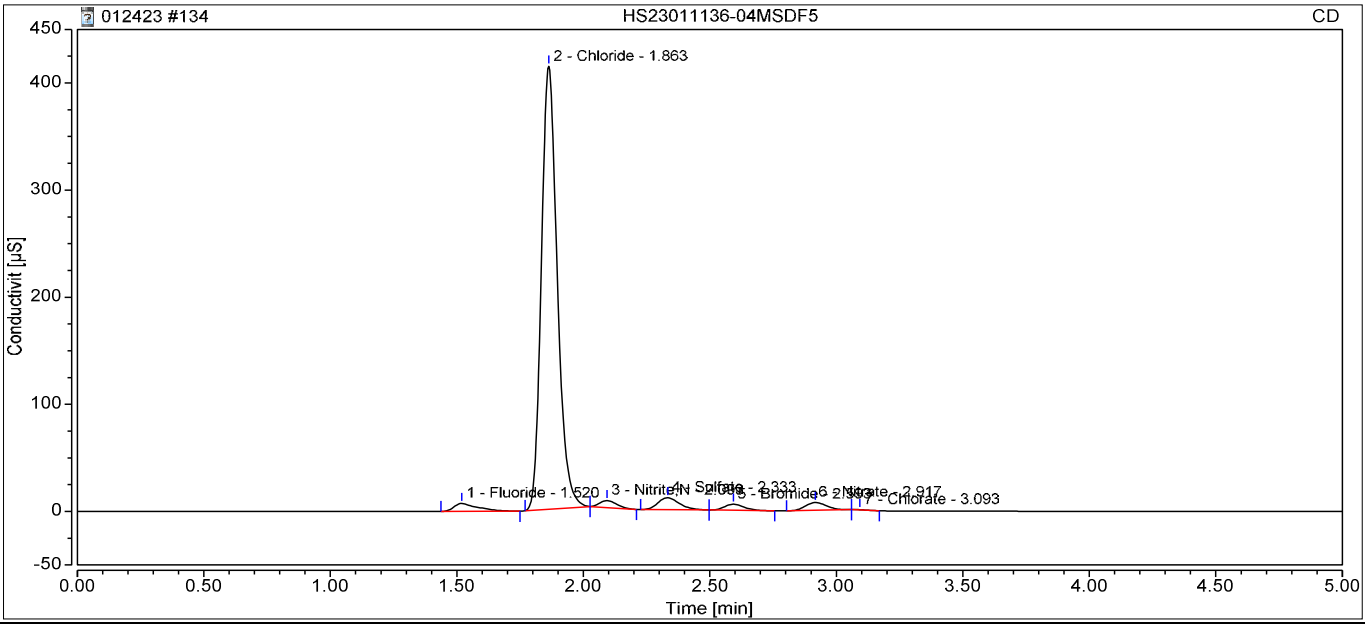
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	5.0000
2	1.86	Chloride	BMB	29.271	170.6350	853.1750	5.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	5.0000
3	2.33	Sulfate	BMB	0.035	0.2940	1.4702	5.0000
4	2.59	Bromide	BMB	0.401	6.9880	34.9400	5.0000
5	2.91	Nitrate	BMB	0.011	0.0025	0.0125	5.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**29.718**		**889.60**	

134 HS23011136-04MSDF5

Sample Name:	**HS23011136-04MSDF5**	*Injection Volume:*	**5.00**
Vial Number:	**BB5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 00:40**	*Sample Weight:*	**1.0000**

Run Time:



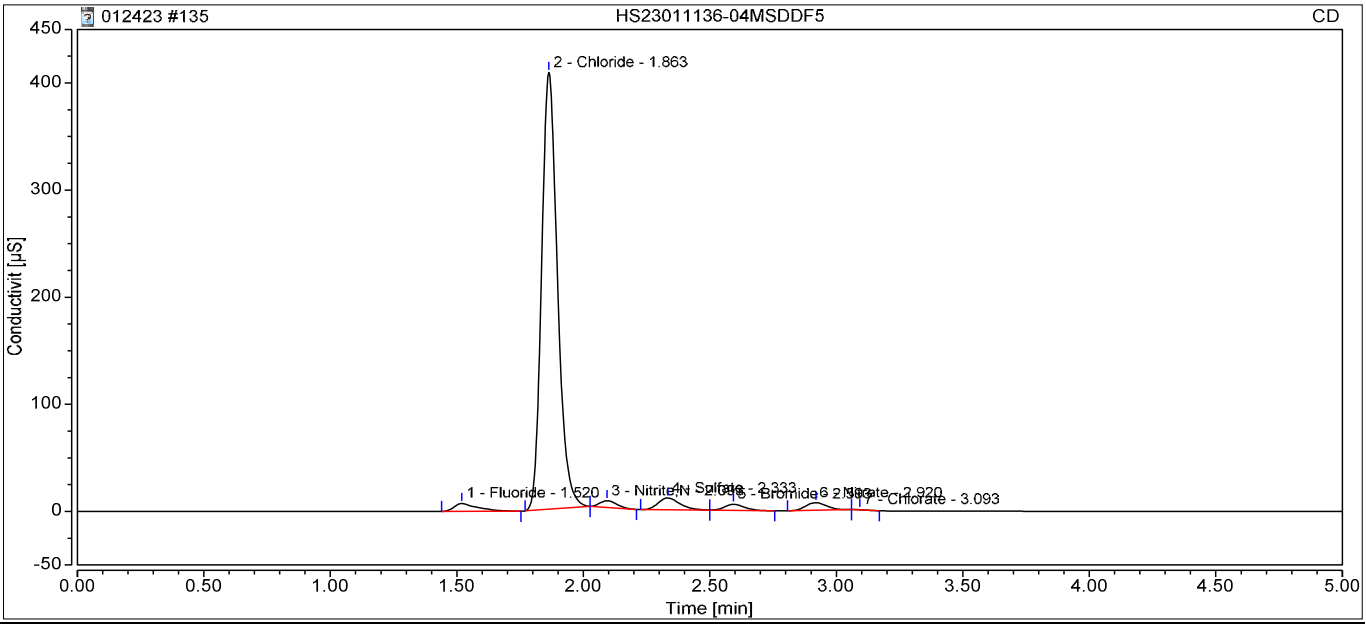
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.805	3.1021	15.5103	5.0000
2	1.86	Chloride	BMB	30.024	175.0214	875.1068	5.0000
3	2.09	Nitrite,N	BMB	0.506	1.4282	7.1408	5.0000
4	2.33	Sulfate	BMB	1.106	9.8160	49.0802	5.0000
5	2.59	Bromide	BMB	0.508	8.8222	44.1109	5.0000
6	2.92	Nitrate	BMB	0.695	1.9744	9.8722	5.0000
7	3.09	Chlorate	BMB	0.011	1.9405	9.7025	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**33.654**		**1010.52**	

135 HS23011136-04MSDDF5

Sample Name:	**HS23011136-04MSDDF5**	*Injection Volume:*	**5.00**
Vial Number:	**BB6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 00:45**	*Sample Weight:*	**1.0000**

Run Time:



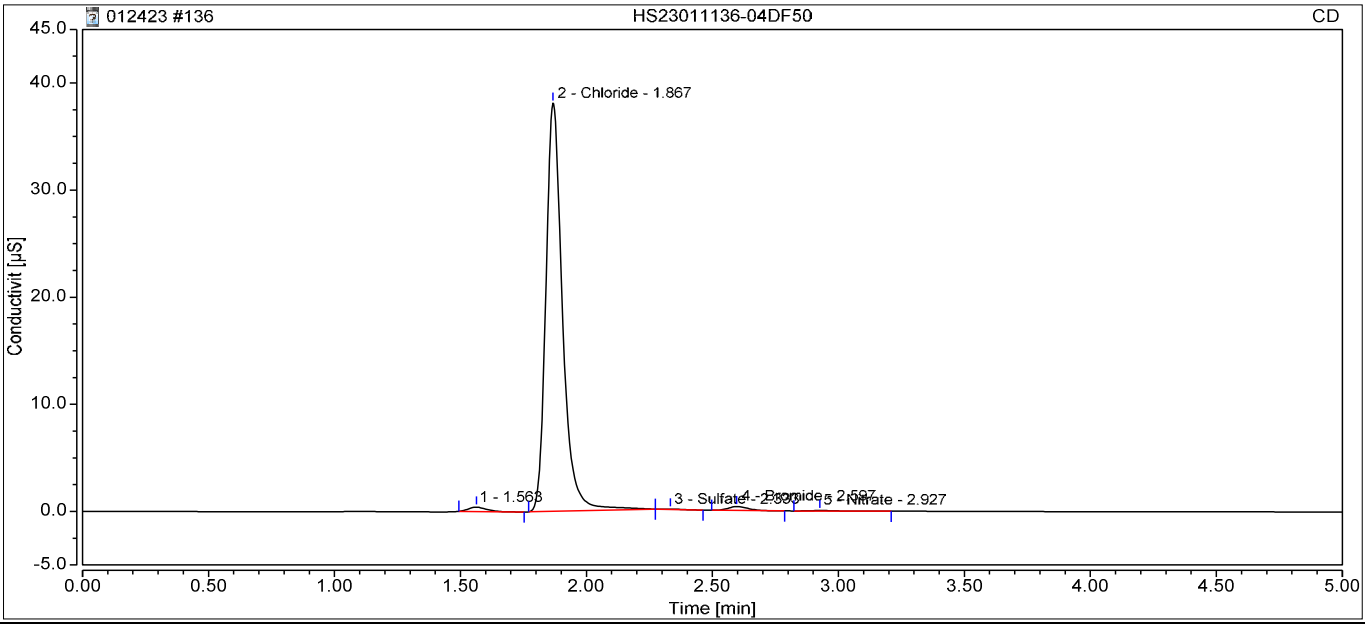
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.787	3.0326	15.1632	5.0000
2	1.86	Chloride	BMB	29.616	172.6439	863.2193	5.0000
3	2.09	Nitrite,N	BMB	0.496	1.3990	6.9948	5.0000
4	2.33	Sulfate	BMB	1.088	9.6567	48.2833	5.0000
5	2.59	Bromide	BMB	0.500	8.6881	43.4406	5.0000
6	2.92	Nitrate	BMB	0.685	1.9449	9.7244	5.0000
7	3.09	Chlorate	BMB	0.011	2.0473	10.2365	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**33.183**		**997.06**	

136 HS23011136-04DF50

Sample Name:	**HS23011136-04DF50**	*Injection Volume:*	**5.00**
Vial Number:	**BB7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**01/25/2023 00:51**	*Sample Weight:*	**1.0000**

Run Time:



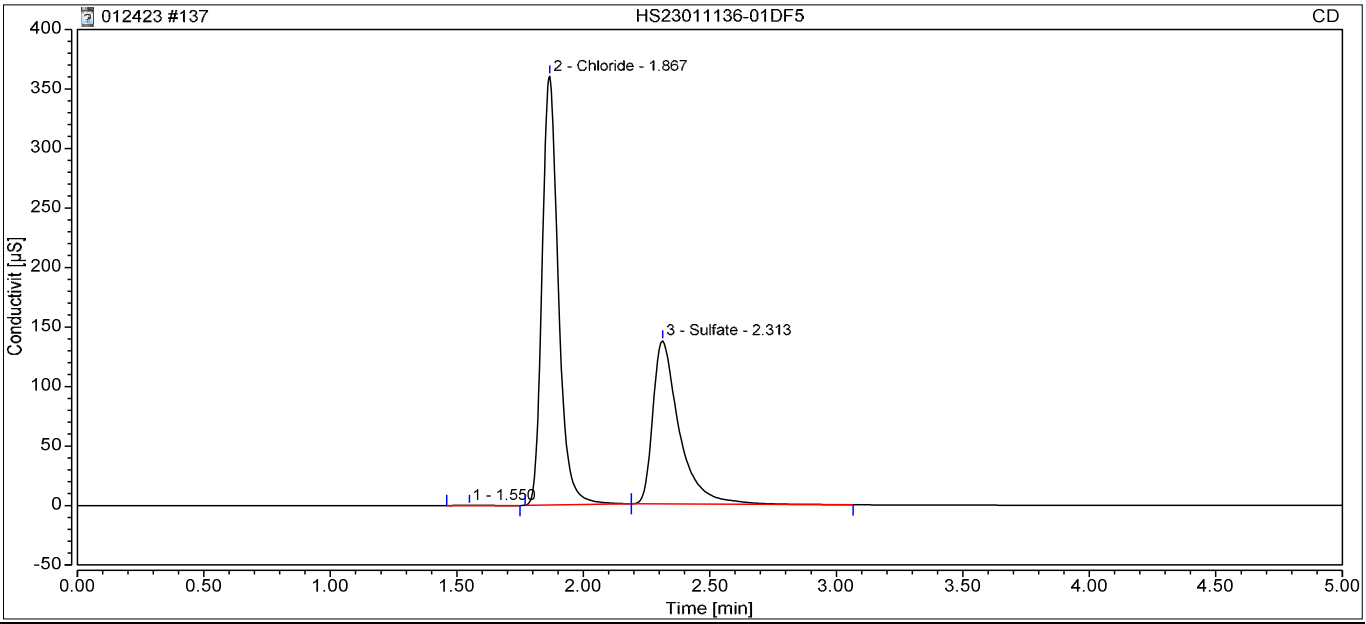
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
2	1.87	Chloride	BMB	2.914	17.0067	850.3355	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
3	2.33	Sulfate	BMB	0.003	0.0118	0.5920	50.0000
4	2.60	Bromide	BMB	0.034	0.6392	31.9578	50.0000
5	2.93	Nitrate	BMB	0.005	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**2.956**		**882.89**	

137 HS23011136-01DF5

Sample Name:	**HS23011136-01DF5**	*Injection Volume:*	**5.00**
Vial Number:	**BB8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 00:57**	*Sample Weight:*	**1.0000**

Run Time:



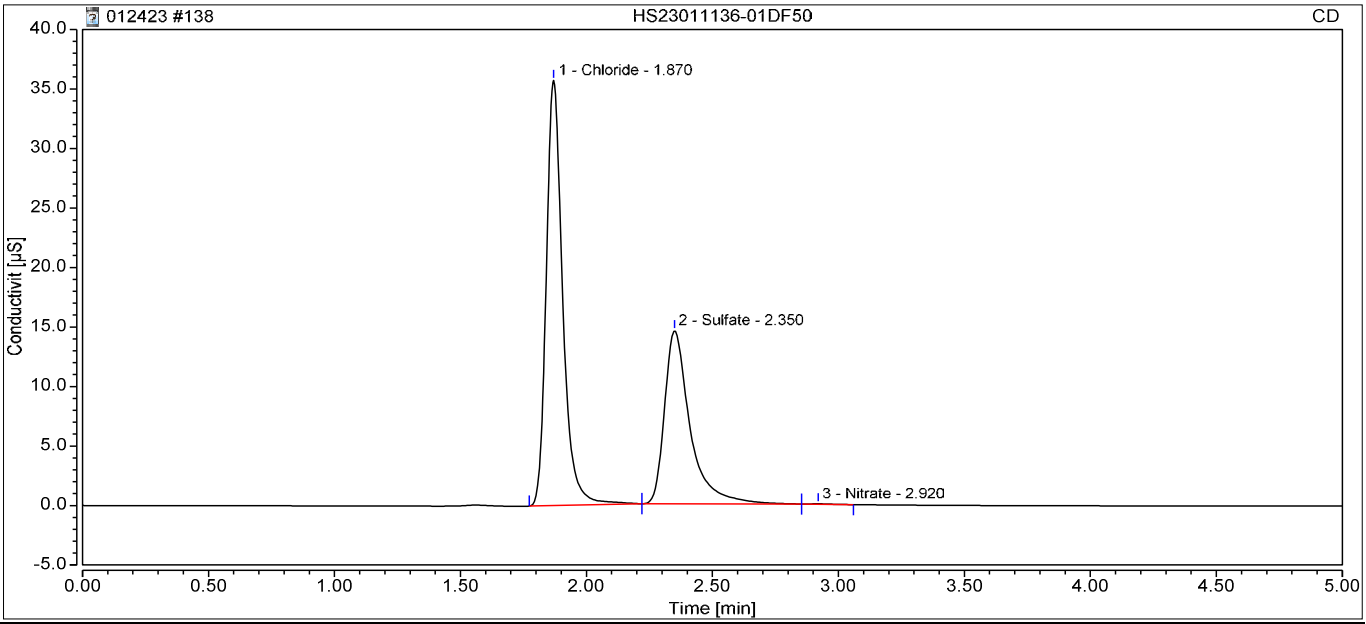
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	5.0000
2	1.87	Chloride	BMB	26.849	156.5133	782.5667	5.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	5.0000
3	2.31	Sulfate	BMB	16.542	147.0458	735.2289	5.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**43.391**		**1517.80**	

138 HS23011136-01DF50

Sample Name:	**HS23011136-01DF50**	*Injection Volume:*	**5.00**
Vial Number:	**BC1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**01/25/2023 01:03**	*Sample Weight:*	**1.0000**

Run Time:



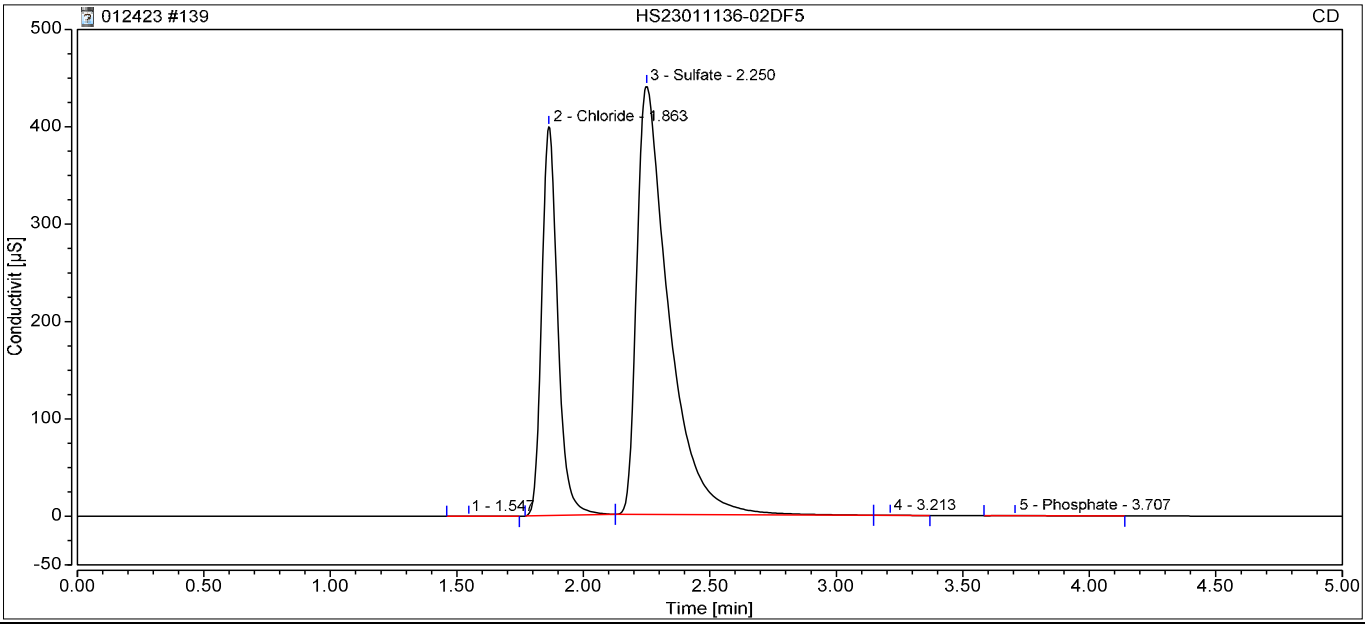
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
1	1.87	Chloride	BMB	2.698	15.7429	787.1439	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
2	2.35	Sulfate	BMB	1.707	15.1560	757.7978	50.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	50.0000
3	2.92	Nitrate	BMB	0.003	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**4.407**		**1544.94**	

139 HS23011136-02DF5

Sample Name:	**HS23011136-02DF5**	*Injection Volume:*	**5.00**
Vial Number:	**BC2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 01:09**	*Sample Weight:*	**1.0000**

Run Time:



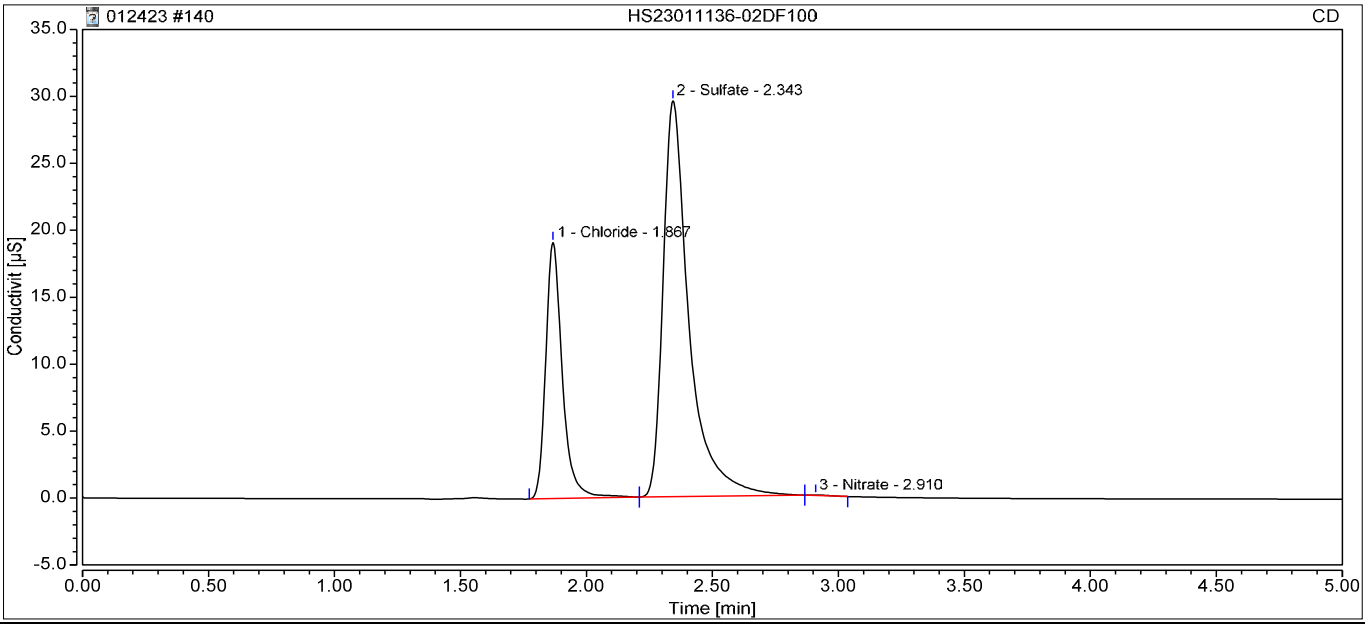
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	5.0000
2	1.86	Chloride	BMB	29.318	170.9087	854.5434	5.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	5.0000
3	2.25	Sulfate	BMB	64.316	571.7633	2858.8166	5.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	5.0000
5	3.71	Phosphate	BMB	0.040	4.1524	20.7619	5.0000
Total:			**0.000**	**93.675**		**3734.12**	

140 HS23011136-02DF100

Sample Name:	**HS23011136-02DF100**	*Injection Volume:*	**5.00**
Vial Number:	**BC3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**100.0000**
Recording Time:	**01/25/2023 01:14**	*Sample Weight:*	**1.0000**

Run Time:



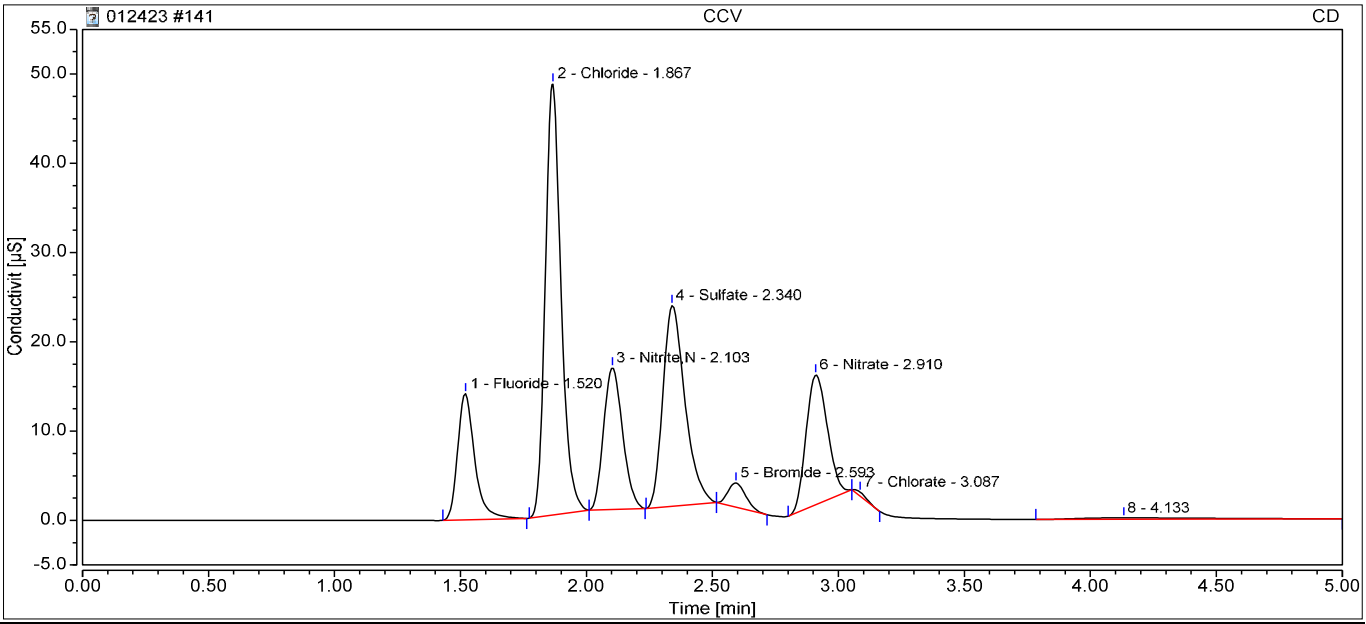
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	100.0000
1	1.87	Chloride	BMB	1.461	8.5338	853.3834	100.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	100.0000
2	2.34	Sulfate	BMB	3.533	31.3950	3139.4993	100.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	100.0000
3	2.91	Nitrate	BMB	0.003	n.a.	n.a.	100.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	100.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	100.0000
Total:			**0.000**	**4.997**		**3992.88**	

141 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 01:32**	*Sample Weight:*	**1.0000**

Run Time:



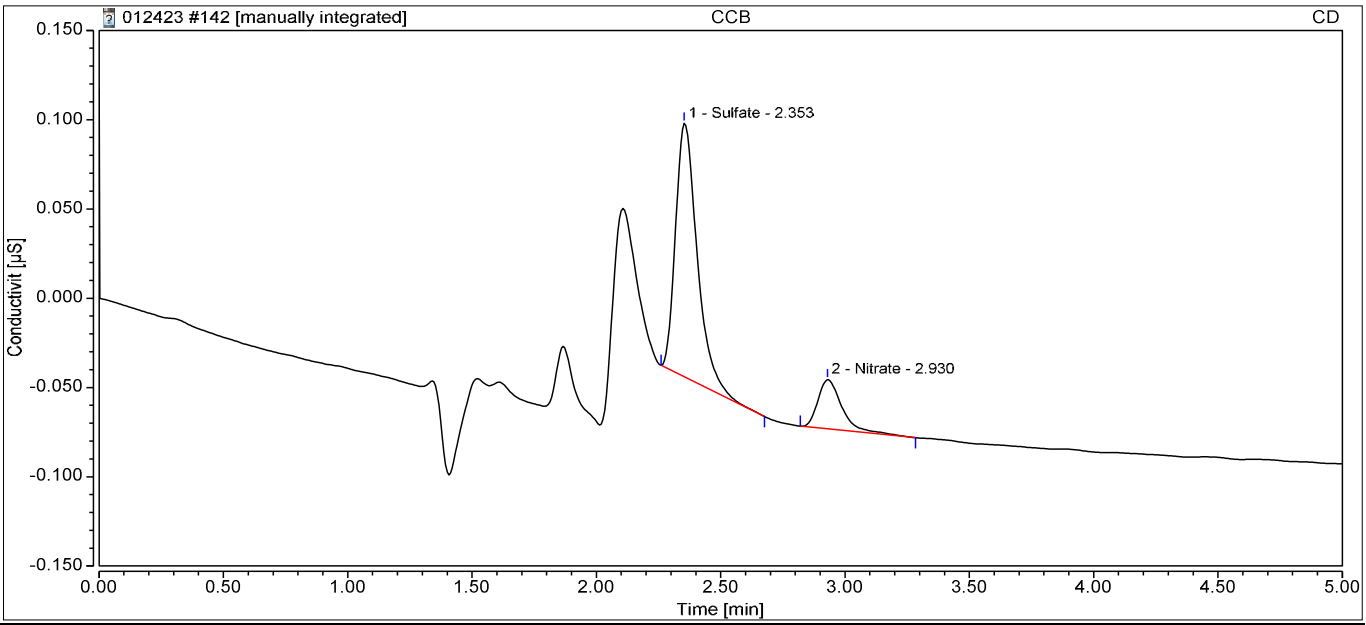
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	1.112	4.2868	4.2868	1.0000
2	1.87	Chloride	BMB	3.495	20.3916	20.3916	1.0000
3	2.10	Nitrite,N	BMB	1.388	4.1042	4.1042	1.0000
4	2.34	Sulfate	BMB	2.292	20.3640	20.3640	1.0000
5	2.59	Bromide	BMB	0.221	3.8735	3.8735	1.0000
6	2.91	Nitrate	BMB	1.427	4.0827	4.0827	1.0000
7	3.09	Chlorate	BMB	0.023	4.2599	4.2599	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.958**		**61.36**	

142 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 01:38**	*Sample Weight:*	**1.0000**

Run Time:



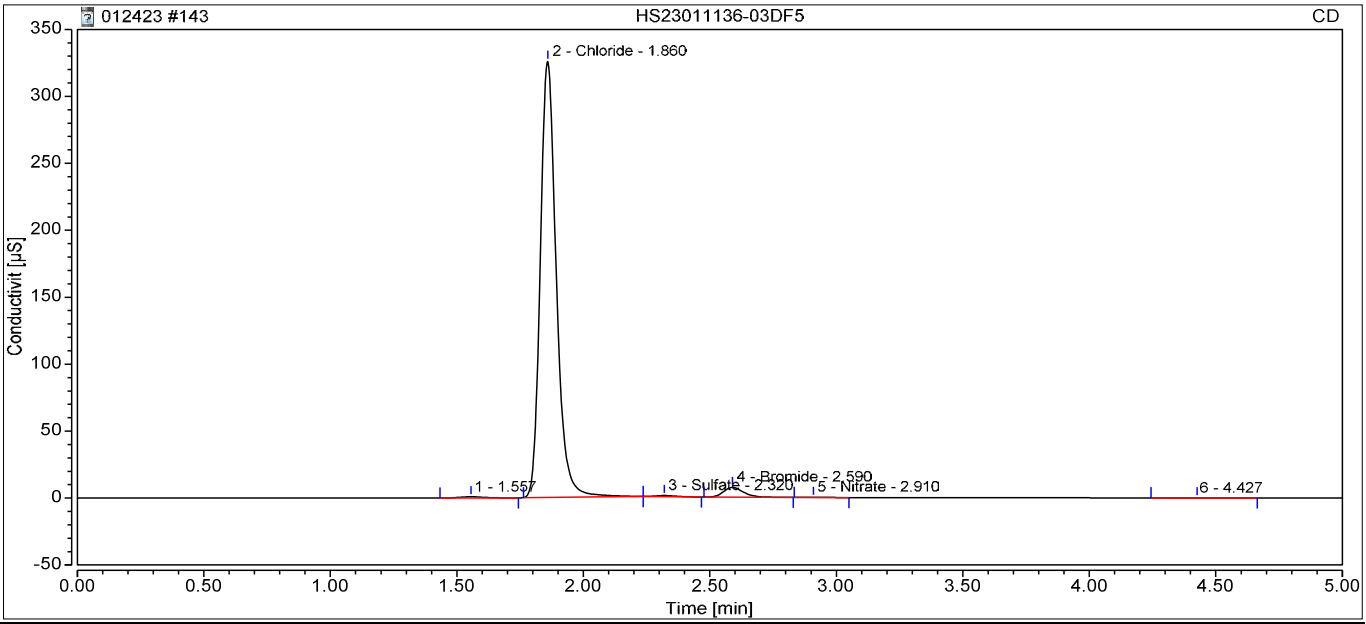
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.35	Sulfate	BMB	0.014	0.1123	0.1123	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
2	2.93	Nitrate	BMB	0.003	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.017**		**0.11**	

143 HS23011136-03DF5

Sample Name:	**HS23011136-03DF5**	*Injection Volume:*	**5.00**
Vial Number:	**BC4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 01:49**	*Sample Weight:*	**1.0000**

Run Time:



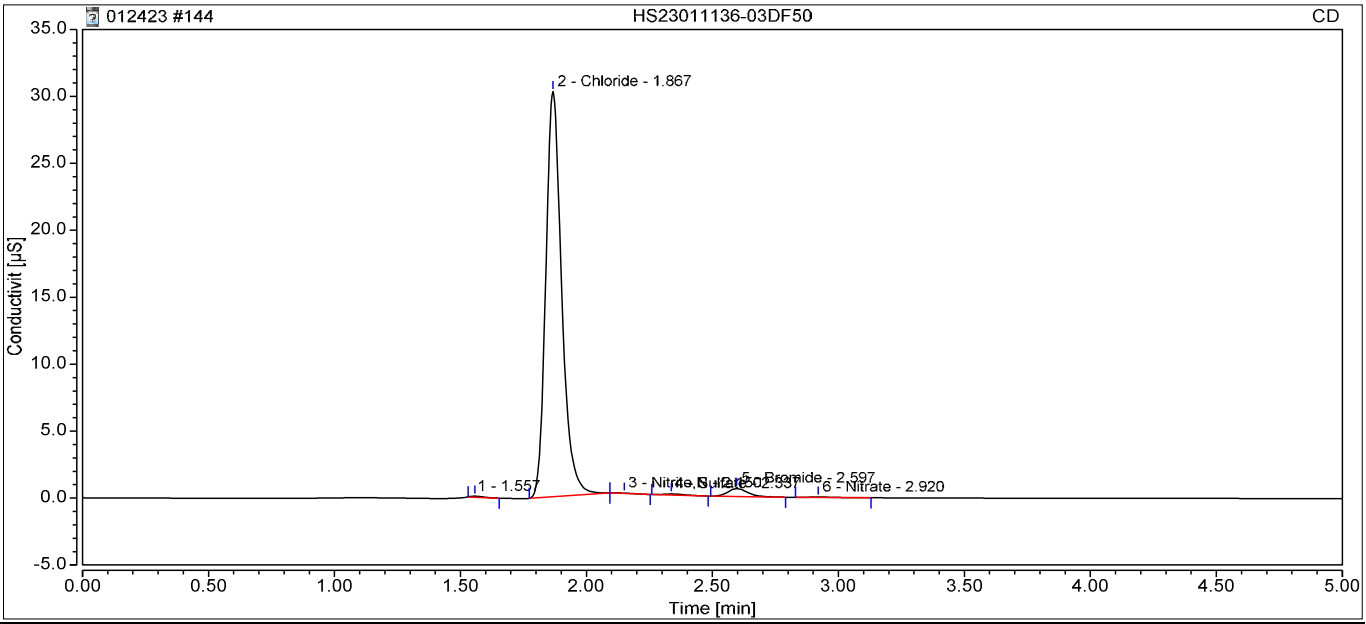
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	5.0000
2	1.86	Chloride	BMB	23.804	138.7691	693.8455	5.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	5.0000
3	2.32	Sulfate	BMB	0.080	0.6990	3.4951	5.0000
4	2.59	Bromide	BMB	0.674	11.6893	58.4463	5.0000
5	2.91	Nitrate	BMB	0.006	n.a.	n.a.	5.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**24.565**		**755.79**	

144 HS23011136-03DF50

Sample Name:	**HS23011136-03DF50**	*Injection Volume:*	**5.00**
Vial Number:	**BC5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**01/25/2023 01:55**	*Sample Weight:*	**1.0000**

Run Time:



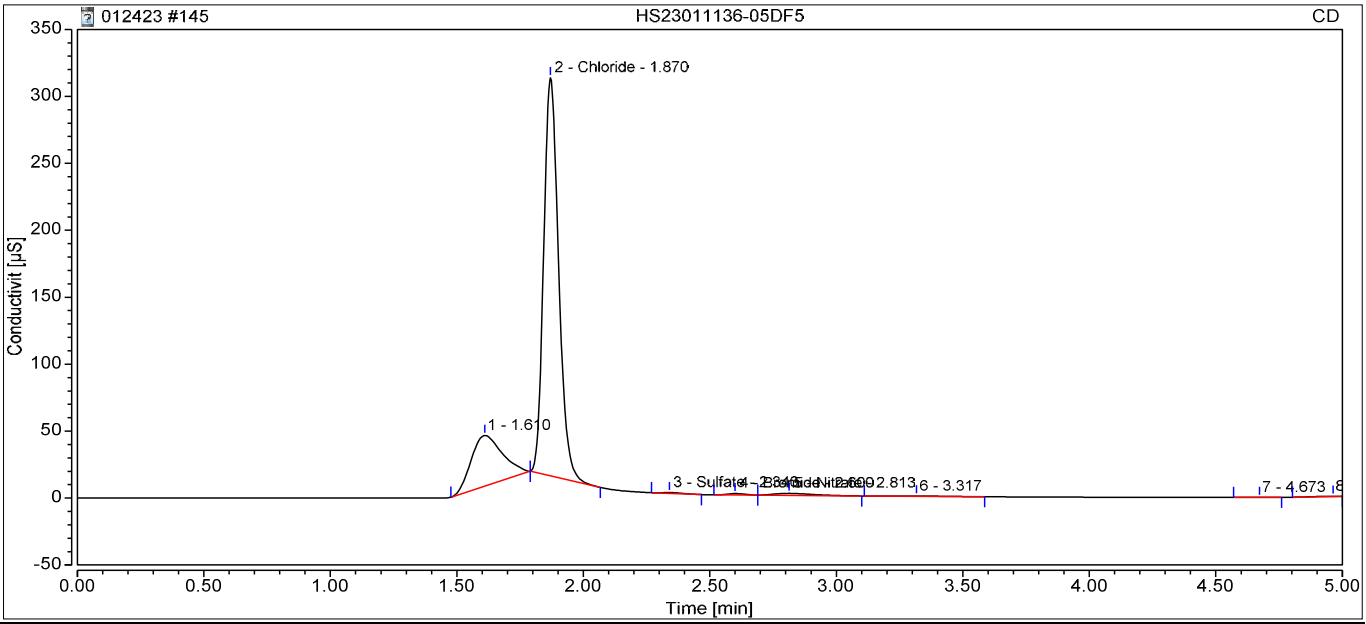
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
2	1.87	Chloride	BMB	2.212	12.9135	645.6737	50.0000
3	2.15	Nitrite,N	BMB	0.003	0.0067	0.3359	50.0000
4	2.34	Sulfate	BMB	0.008	0.0533	2.6646	50.0000
5	2.60	Bromide	BMB	0.053	0.9729	48.6443	50.0000
6	2.92	Nitrate	BMB	0.003	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**2.279**		**697.32**	

145 HS23011136-05DF5

Sample Name:	**HS23011136-05DF5**	*Injection Volume:*	**5.00**
Vial Number:	**BC6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 02:01**	*Sample Weight:*	**1.0000**

Run Time:



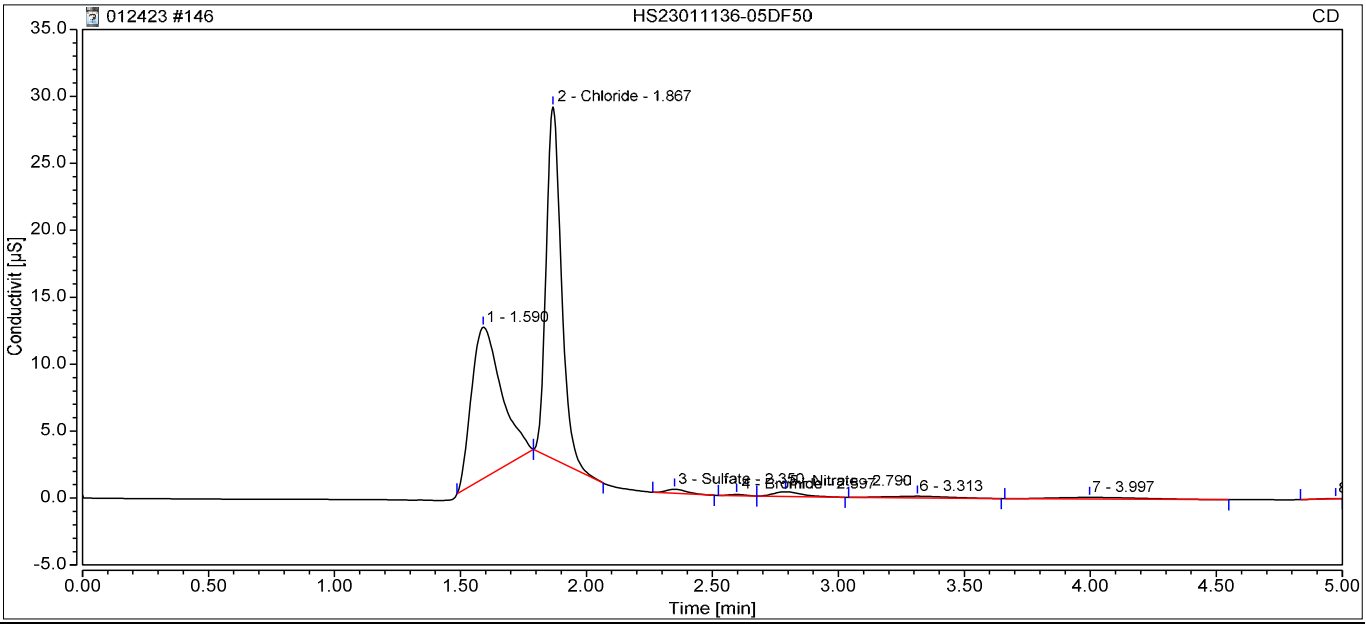
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	5.0000
2	1.87	Chloride	BMB	20.372	118.7600	593.8000	5.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	5.0000
3	2.34	Sulfate	BMB	0.054	0.4604	2.3021	5.0000
4	2.60	Bromide	BMB	0.080	1.4350	7.1748	5.0000
5	2.81	Nitrate	BMB	0.255	0.7079	3.5393	5.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**20.761**		**606.82**	

146 HS23011136-05DF50

Sample Name:	**HS23011136-05DF50**	*Injection Volume:*	**5.00**
Vial Number:	**BC7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**01/25/2023 02:06**	*Sample Weight:*	**1.0000**

Run Time:



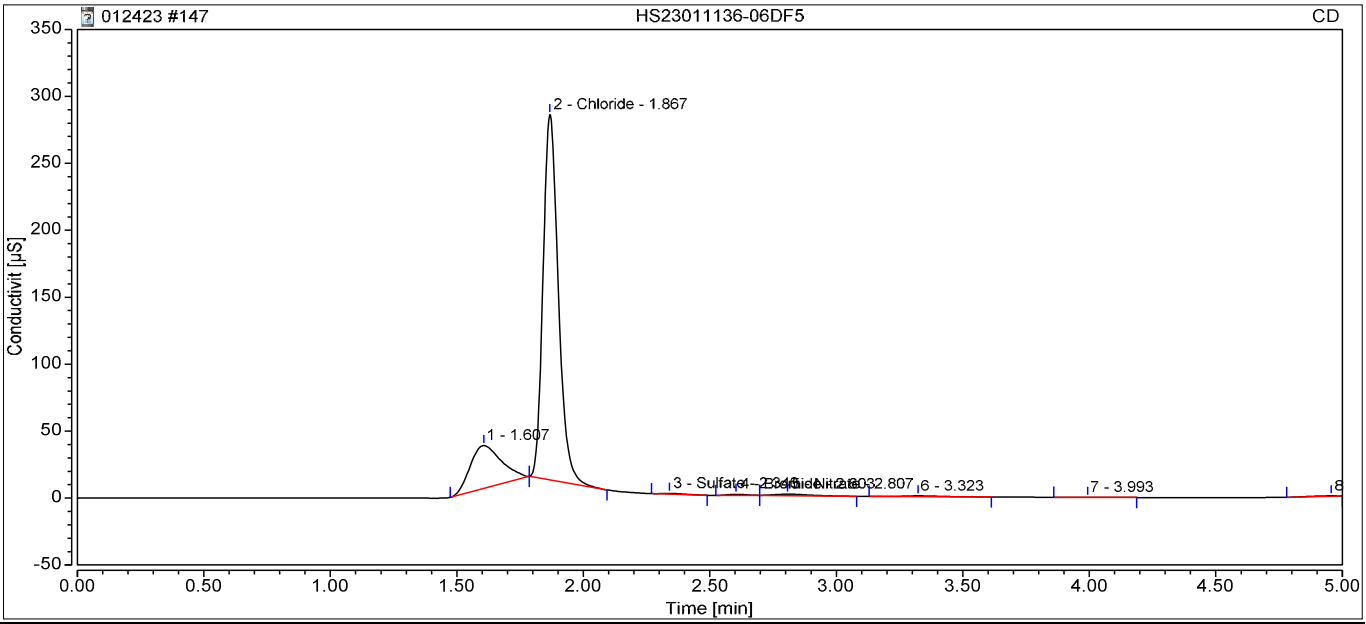
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
2	1.87	Chloride	BMB	1.850	10.8016	540.0812	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
3	2.35	Sulfate	BMB	0.029	0.2453	12.2651	50.0000
4	2.60	Bromide	BMB	0.006	0.1638	8.1900	50.0000
5	2.79	Nitrate	BMB	0.046	0.1031	5.1552	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**1.931**		**565.69**	

147 HS23011136-06DF5

Sample Name:	**HS23011136-06DF5**	*Injection Volume:*	**5.00**
Vial Number:	**BC8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**5.0000**
Recording Time:	**01/25/2023 02:12**	*Sample Weight:*	**1.0000**

Run Time:



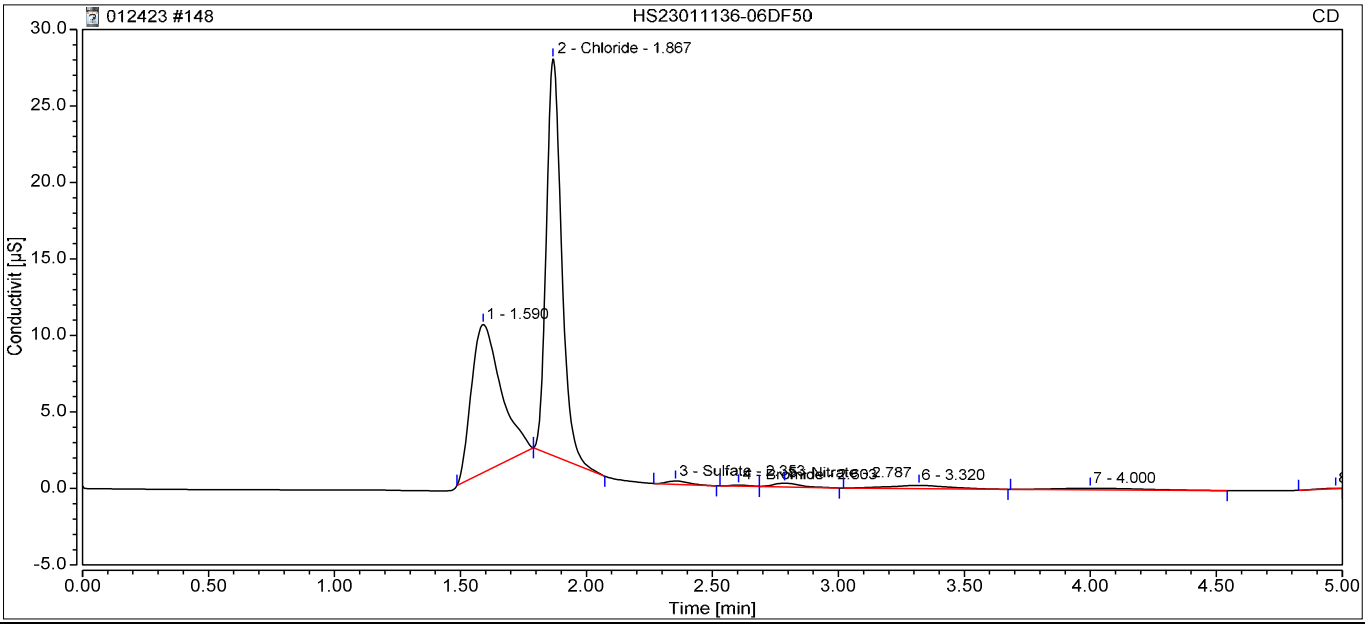
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	5.0000
2	1.87	Chloride	BMB	19.100	111.3460	556.7302	5.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	5.0000
3	2.34	Sulfate	BMB	0.060	0.5178	2.5888	5.0000
4	2.60	Bromide	BMB	0.066	1.1873	5.9367	5.0000
5	2.81	Nitrate	BMB	0.168	0.4571	2.2857	5.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	5.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	5.0000
Total:			**0.000**	**19.394**		**567.54**	

148 HS23011136-06DF50

Sample Name:	**HS23011136-06DF50**	*Injection Volume:*	**5.00**
Vial Number:	**BD1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**01/25/2023 02:18**	*Sample Weight:*	**1.0000**

Run Time:



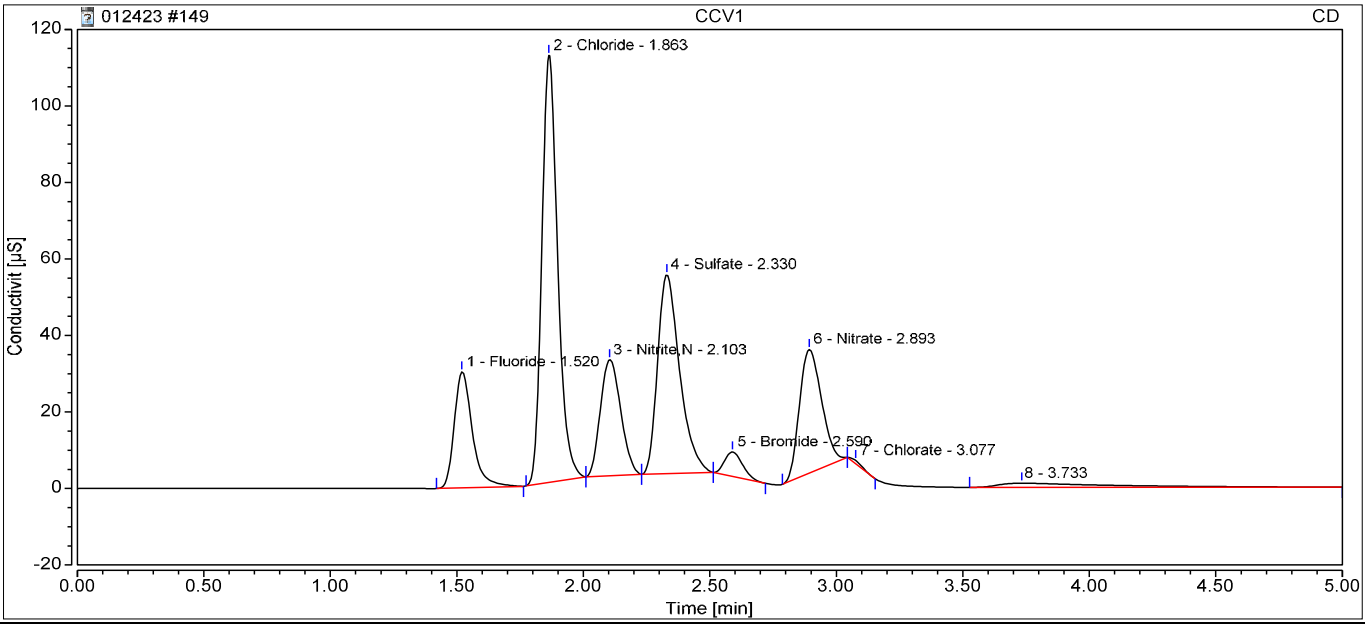
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
2	1.87	Chloride	BMB	1.827	10.6704	533.5183	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
3	2.35	Sulfate	BMB	0.022	0.1843	9.2172	50.0000
4	2.60	Bromide	BMB	0.006	0.1499	7.4943	50.0000
5	2.79	Nitrate	BMB	0.028	0.0534	2.6702	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**1.884**		**552.90**	

149 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 02:35**	*Sample Weight:*	**1.0000**

Run Time:



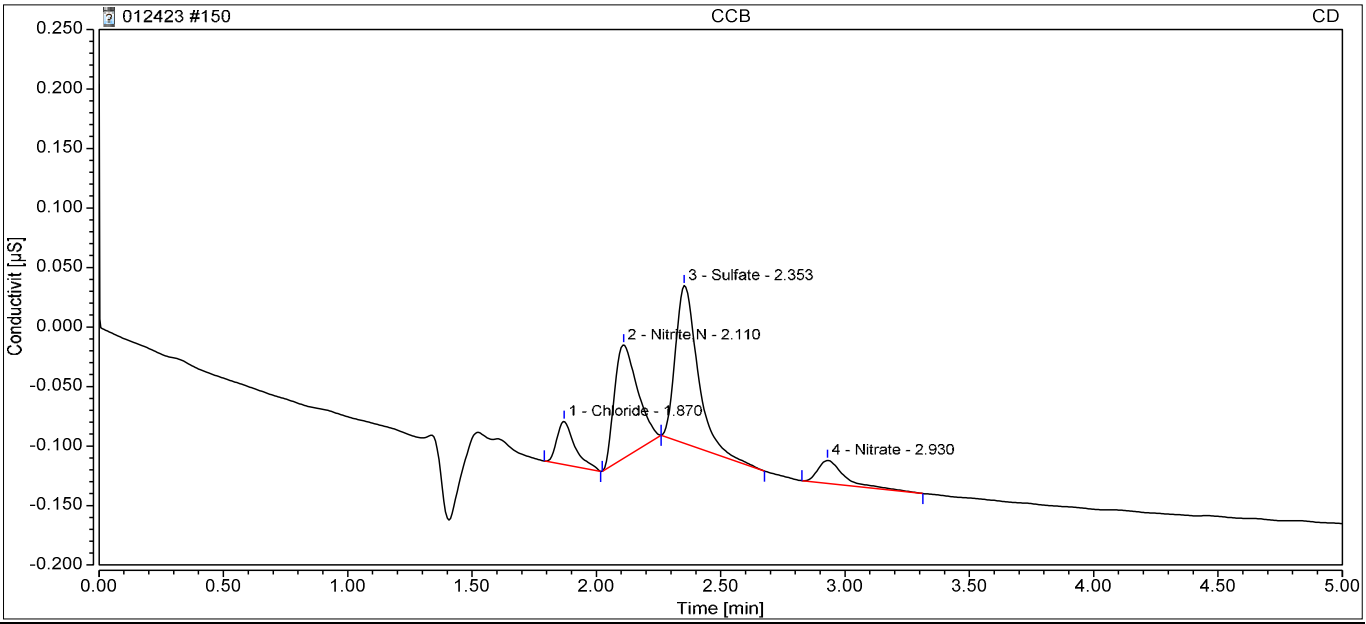
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	2.519	9.7097	9.7097	1.0000
2	1.86	Chloride	BMB	8.067	47.0382	47.0382	1.0000
3	2.10	Nitrite,N	BMB	2.819	9.1494	9.1494	1.0000
4	2.33	Sulfate	BMB	5.253	46.6844	46.6844	1.0000
5	2.59	Bromide	BMB	0.529	9.1902	9.1902	1.0000
6	2.89	Nitrate	BMB	3.277	9.4116	9.4116	1.0000
7	3.08	Chlorate	BMB	0.044	9.2543	9.2543	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.508**		**140.44**	

150 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**01/25/2023 02:41**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	1.87	Chloride	BMB	0.003	0.0376	0.0376	1.0000
2	2.11	Nitrite,N	BMB	0.010	0.0280	0.0280	1.0000
3	2.35	Sulfate	BMB	0.014	0.1082	0.1082	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
4	2.93	Nitrate	BMB	0.002	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.030**		**0.17**	

HS23011136 Eurofinn Lab J113311-1 Std_Tal_L4 Final Report

ALS WO# HS23011136

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/31/2023 8:56 PM

JOB DESCRIPTION

HS23011136

JOB NUMBER

410-113311-1

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

See page two for job notes and contact information.

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

Authorization

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1/31/2023 8:56 PM

Authorized for release by
Michele D Hamilton, Analyst I
Michele.Hamilton@et.eurofinsus.com
Designee for
Kelly Bauer, Project Manager
Kelly.Bauer@et.eurofinsus.com
717 556-7262

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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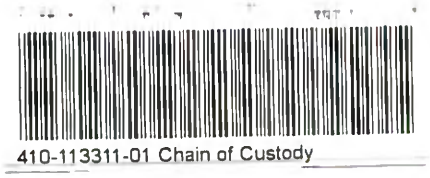


10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **20820**

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23011136
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23011136-01**	**16WW58-230123**	**Water**	**23 Jan 2023 08:50**
	RSK175 CO2; LHAAP; DoD Level IV, EQUIS EDD			09 Feb 2023
2.	**HS23011136-02**	**16WW57-230123**	**Water**	**23 Jan 2023 09:40**
	RSK175 CO2; LHAAP; DoD Level IV, EQUIS EDD			09 Feb 2023
3.	**HS23011136-03**	**16IW26-230123**	**Water**	**23 Jan 2023 10:40**
	RSK175 CO2; LHAAP; DoD Level IV, EQUIS EDD			09 Feb 2023
4.	**HS23011136-04**	**16IW10-230123**	**Water**	**23 Jan 2023 11:35**
	RSK175 CO2; LHAAP; DoD Level IV, EQUIS EDD			09 Feb 2023
5.	**HS23011136-05**	**16IW03-230123**	**Water**	**23 Jan 2023 12:35**
	RSK175 CO2; LHAAP; DoD Level IV, EQUIS EDD			09 Feb 2023
6.	**HS23011136-06**	**16IW03-230123-FD**	**Water**	**23 Jan 2023 12:35**
	RSK175 CO2; LHAAP; DoD Level IV, EQUIS EDD			09 Feb 2023

Comments: HS23011136-04 MS/MSD

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

QC Level: DOD IV (DoD Data Package)

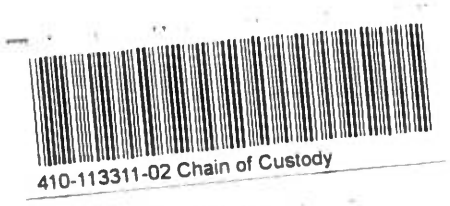
Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **20820**

Relinquished By: _____ Date/Time: 1/24/23 18:00

Received By: _____ Date/Time: 1/25/23 0958

Cooler ID(s): _____ Temperature(s): _____



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

Purchase Order

PO: HS23011136

VENDOR:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	20820
TSR:	Ron Martino

	Item	Catalog No	Unit Price	Quantity	Ext Price
1.	RSK175 CO2; LHAAP; DoD Level IV, EQUIS EDD	NA		6	

Order Total:

HS23011136-E2300079 Perchlorate Report Level IV

ALS WO# HS23011136

January 31, 2023 Service Request No:E2300079

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23011136

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory January 24, 2023
For your reference, these analyses have been assigned our service request number **E2300079.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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 HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300079
Project:	HS23011136	**Date Received:**	01/24/23
Sample Matrix:	Ground 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

Six samples were received for analysis at ALS Environmental in Houston on 01/24/23.

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:

EQ2300031: 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 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:**E2300079
Project: HS23011136

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300079-001	16WW58-230123	1/23/2023	0850
E2300079-002	16WW57-230123	1/23/2023	0940
E2300079-003	16IW26-230123	1/23/2023	1040
E2300079-004	16IW10-230123	1/23/2023	1135
E2300079-005	16IW03-230123	1/23/2023	1235
E2300079-006	16IW03-230123-FD	1/23/2023	1235

Service Request Summary

Folder #: **E2300079**
Client Name: ALS Environmental - US
Project Name: HS23011136
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 01/24/23
Internal Due Date: 2/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011136
EDD: EQUIS
EFWEDD_LHAAP

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300079-001	16WW58-230123	Ground Water	01/23/23 0850	**IV**
E2300079-002	16WW57-230123	Ground Water	01/23/23 0940	**IV**
E2300079-003	16IW26-230123	Ground Water	01/23/23 1040	**IV**
E2300079-004	16IW10-230123	Ground Water	01/23/23 1135	**IV**
E2300079-005	16IW03-230123	Ground Water	01/23/23 1235	**IV**
E2300079-006	16IW03-230123-FD	Ground Water	01/23/23 1235	**IV**

Service Request Summary

Folder #: **E2300079**
Client Name: ALS Environmental - US
Project Name: HS23011136
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 01/24/23
Internal Due Date: 2/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011136
EDD: EQUIS
EFWEDD_LHAAP

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	5	IV Due 2/14
Semivoa GCMS	ClO4 DOD/6850	1	ms/msd

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

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

Chain of Custody

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Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 20818

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

ALS copy

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23011136
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23011136-01**	**16WW58-230123**	**Water**	**23 Jan 2023 08:50**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			09 Feb 2023
2.	**HS23011136-02**	**16WW57-230123**	**Water**	**23 Jan 2023 09:40**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			09 Feb 2023
3.	**HS23011136-03**	**16IW26-230123**	**Water**	**23 Jan 2023 10:40**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			09 Feb 2023
4.	**HS23011136-04**	**16IW10-230123**	**Water**	**23 Jan 2023 11:35**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			09 Feb 2023
5.	**HS23011136-05**	**16IW03-230123**	**Water**	**23 Jan 2023 12:35**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			09 Feb 2023
6.	**HS23011136-06**	**16IW03-230123-FD**	**Water**	**23 Jan 2023 12:35**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			09 Feb 2023

Comments: HS23011136-04 MS/MSD

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

Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 20818

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 1-29-25 1720

Cooler ID(s): _____ Temperature(s): _____

ALS Environmental

Cooler Receipt Form

Project Chemist JH

Client/Project ALS

Thermometer ID 1231

Date/Time Received: 1-24-23 Initials: CG

Date/Time Logged in: 1-24-23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No

Were they intact? ○ Yes ○ No ☒ N/A

Were they signed and dated? ○ Yes ○ No ☒ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		1-24-23	1000	CG	3.3	☒
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No

10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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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

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Preparation Information Benchsheet

Prep Run#: 413623 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/27/23 09:20

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300079-001	16WW58-230123	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300079-002	16WW57-230123	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300079-003	16IW26-230123	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300079-004	16IW10-230123	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300079-005	16IW03-230123	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300079-006	16IW03-230123-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300081-001	RSA-195-OVB-02-190123	.01	6850/ClO4 DOD			Water	10mL	
8	E2300081-002	RSA-195-OVB-01-190123	.01	6850/ClO4 DOD			Water	10mL	
9	E2300081-003	RSA-EB-01-190123	.01	6850/ClO4 DOD			Water	10mL	
10	E2300081-004	RSA-FB-01-190123	.01	6850/ClO4 DOD			Water	10mL	
11	E2300082-001	RSA-095-OVB-01	.01	6850/ClO4 DOD			Water	10mL	
12	E2300082-002	RSA-095-OVB-02	.01	6850/ClO4 DOD			Water	10mL	
13	E2300082-003	RSA-095-OVB-03	.01	6850/ClO4 DOD			Water	10mL	
14	E2300082-004	RSA-DB-01	.01	6850/ClO4 DOD			Water	10mL	
15	E2300084-001	MOSA-23-267966	.01	6850/ClO4			Water	10mL	
16	E2300084-002	MOSA-23-267971	.01	6850/ClO4			Water	10mL	
17	E2300084-003	MOSA-23-267967	.01	6850/ClO4			Water	10mL	
18	E2300084-004	MOSA-23-267972	.01	6850/ClO4			Water	10mL	
19	EQ2300031-01	MB		6850/ClO4 DOD			Liquid	10mL	
20	EQ2300031-02	LCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2300031-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300031-04	16IW10-230123 MS	.01	6850/ClO4 DOD			Liquid	10mL	
23	EQ2300031-05	16IW10-230123 DMS	.01	6850/ClO4 DOD			Liquid	10mL	
24	EQ2300031-06	RSA-095-OVB-01 MS	.01	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300031-07	RSA-095-OVB-01 DMS	.01	6850/ClO4 DOD			Liquid	10mL	
26	R2300559-004	2301190900 B655-EFF-2	.01	6850/ClO4			Water	10mL	
27	R2300559-009	2301190920 B655-INF-2	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 226778 Logbook Ref: Perchlorate Internal Standard Expires On: 05/31/2023

EQ2300031-01	100.00µL	EQ2300031-01	100.00µL	EQ2300031-02	100.00µL	EQ2300031-02	100.00µL	EQ2300031-03	100.00µL	EQ2300031-03	100.00µL
EQ2300031-04	100.00µL	EQ2300031-05	100.00µL	EQ2300031-06	100.00µL	EQ2300031-07	100.00µL				

Preparation Information Benchsheet

Prep Run#: 413623 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/27/23 09:20

Name:	Perchlorate Intermediate Stock1	Inventory ID	227236	Logbook Ref:	Perchlorate (1st Source)	Expires On:	07/31/2023

EQ2300031-02 1.00µL EQ2300031-02 1.00µL EQ2300031-03 1.00µL EQ2300031-03 1.00µL EQ2300031-04 1.00µL EQ2300031-05 1.00µL
EQ2300031-06 1.00µL EQ2300031-07 1.00µL

Preparation Materials

Water HPLC Grade 01/04/2023 Water (226857) 6850 Amber Glass screw vial 2mL Screw Top Vial (221894) 6850 0.45um syringe filters 6850 Syringe Filters (224414)
6850 Luer-Lok Syringes Luer-Lok Syringes (221305) 6850 Pipette Tips 50-1000 uL 6850 Pipette Tips (221929)

Preparation Steps

Step: Preparation
Started: 1/27/23 09:20
Finished: 1/30/23 11:50
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 01/27/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined
Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 0850
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW58-230123	**Units:**	µg/L
Lab Code:	E2300079-001	**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	**0.0371**	J	0.100	0.0500	0.0250	1	1/27/23	1/30/23 12:48	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 0940
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW57-230123	**Units:**	µg/L
Lab Code:	E2300079-002	**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	ND	U	0.100	0.0500	0.0250	1	1/27/23	1/30/23 12:53	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 1040
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16IW26-230123	**Units:**	µg/L
Lab Code:	E2300079-003	**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	1/27/23	1/30/23 12:59	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 1135
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16IW10-230123	**Units:**	µg/L
Lab Code:	E2300079-004	**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	ND	U	0.100	0.0500	0.0250	1	1/27/23	1/30/23 13:05	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 1235
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16IW03-230123	**Units:**	µg/L
Lab Code:	E2300079-005	**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	1/27/23	1/30/23 13:11	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 1235
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16IW03-230123-FD	**Units:**	µg/L
Lab Code:	E2300079-006	**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	ND	U	0.100	0.0500	0.0250	1	1/27/23	1/30/23 15:06	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300031-01	**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	1/27/23	1/30/23 11:47	413623	792992	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011136
Sample Matrix: Ground Water

Service Request: E2300079
Date Analyzed: 1/30/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 413623

	Lab Control Sample EQ2300031-02			Duplicate Lab Control Sample EQ2300031-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.118	0.100	118	84 - 119	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300031-02	**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	1/27/23	1/30/23 11:52	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300031-03	**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	**0.118**		0.100	0.0500	0.0250	1	1/27/23	1/30/23 12:07	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
		Date Analyzed:	1/30/23

Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	16IW10-230123	**Units:**	µg/L
Lab Code:	E2300079-004	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		16IW10-230123MS			16IW10-230123DMS					
		Matrix Spike			**Duplicate Matrix Spike**					
		EQ2300031-04			EQ2300031-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND	0.0916	0.100	92	0.104	0.100	104	84 - 119	13	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.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 1135
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16IW10-230123	**Units:**	µg/L
Lab Code:	EQ2300031-04	**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	**0.0916**	J	0.100	0.0500	0.0250	1	1/27/23	1/30/23 12:36	413623	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Collected:**	1/23/23 1135
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16IW10-230123	**Units:**	µg/L
Lab Code:	EQ2300031-05	**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	**0.104**		0.100	0.0500	0.0250	1	1/27/23	1/30/23 12:42	413623	792992	

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

20221214

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 12/14/2022
Cal. Std. xp: 01/31/2023
ICAL ID: EC2200016

Mobile Phases : **A:**0.10% Formic Acid/Water 3210301-08 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	IB		20221214_001	Perchlorate6850c.lcm	1x	☒		12/14/2022 15:12
2	ICS		20221214_002	Perchlorate6850c.lcm	1x	☒		12/14/2022 15:29
3	LODV		20221214_003	Perchlorate6850c.lcm	1x	☒		12/14/2022 15:35
4	PERCHLORATE1		20221214_004	Perchlorate6850c.lcm	1x	☒	226061	12/14/2022 15:40
5	PERCHLORATE2		20221214_005	Perchlorate6850c.lcm	1x	☒	226062	12/14/2022 15:46
6	PERCHLORATE3		20221214_006	Perchlorate6850c.lcm	1x	☒	226063	12/14/2022 15:51
7	PERCHLORATE4		20221214_007	Perchlorate6850c.lcm	1x	☒	226064	12/14/2022 15:57
8	PERCHLORATE5		20221214_008	Perchlorate6850c.lcm	1x	☒	226065	12/14/2022 16:02
9	PERCHLORATE6		20221214_009	Perchlorate6850c.lcm	1x	☒	226066	12/14/2022 16:09
10	PERCHLORATE7		20221214_010	Perchlorate6850c.lcm	1x	☒	225881	12/14/2022 16:15
11	PERCHLORATE8		20221214_011	Perchlorate6850c.lcm	1x	☒	226068	12/14/2022 16:20
12	PERCHLORATE9		20221214_012	Perchlorate6850c.lcm	1x	☒	226069	12/14/2022 16:25
13	PERCHLORATE10		20221214_013	Perchlorate6850c.lcm	1x	☒	226070	12/14/2022 16:31
14	PERCHLORATEICV		20221214_014	Perchlorate6850c.lcm	1x	☒	226067	12/14/2022 16:37

Initial Calibration - Detailed Report

Calibration ID: EC2200016 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2200016-01	PERCHLORATE1	20221214_004	12/14/2022 15:40
02	EC2200016-02	PERCHLORATE2	20221214_005	12/14/2022 15:46
03	EC2200016-03	PERCHLORATE3	20221214_006	12/14/2022 15:51
04	EC2200016-04	PERCHLORATE4	20221214_007	12/14/2022 15:57
05	EC2200016-05	PERCHLORATE5	20221214_008	12/14/2022 16:02
06	EC2200016-06	PERCHLORATE6	20221214_009	12/14/2022 16:09
07	EC2200016-07	PERCHLORATE7	20221214_010	12/14/2022 16:15
08	EC2200016-08	PERCHLORATE8	20221214_011	12/14/2022 16:20
09	EC2200016-09	PERCHLORATE9	20221214_012	12/14/2022 16:25
10	EC2200016-10	PERCHLORATE10	20221214_013	12/14/2022 16:31

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 2.927** **Average RF = 0.1567**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1615	02	0.5000	0.1479	03	0.7000	0.1579	04	1.0000	0.1573
05	2.0000	0.1505	06	5.0000	0.1573	07	10.0000	0.1541	08	20.0000	0.162
09	30.0000	0.1598	10	50.0000	0.1587						

Analyte

Perchlorate RSE = 2.93

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.103	3.1	02	0.5000	0.472	-5.6	03	0.7000	0.705	0.8
04	1.0000	1.00	0.4	05	2.0000	1.92	-3.9	06	5.0000	5.02	0.4
07	10.0000	9.83	-1.7	08	20.0000	20.7	3.4	09	30.0000	30.6	2.0
10	50.0000	50.6	1.3								

Initial Calibration Verification Summary Report

Calibration ID:	EC2200016	**Instrument ID:**	E-LCMS-01
Datafile ID:	20221214_014	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2200016-11	T	Average RF	10	9.359	ng/mL	-6.4	<= 15

Insight Report

Printed at 12/15/2022 10:55:51 AM

Method File: I:\LCMS01\DATA\20221013ICAL\20221013ICAL.lcm
Project File: I:\LCMS01\DATA\20221214\12142022 ICAL.damlp

PERCHLORATE1

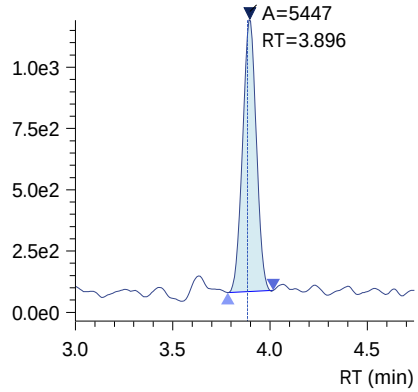
Sample ID: PERCHLORATE1
Date Acquired: 12/14/2022 3:40:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_004.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.896	5447	337240	0.1031	ng/mL	101.00 >85.00	35.31	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.889	337240	337240	1.0000	ng/mL	----	----	

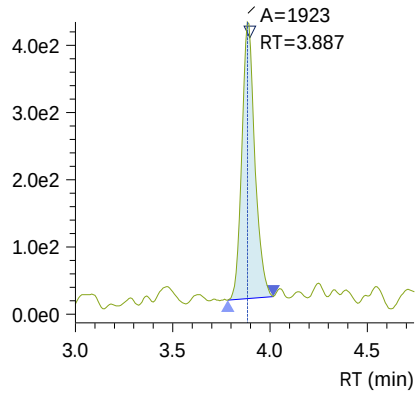
Perchlorate

Conc 0.1031
R#1 35.31 (34.02)

Q 99.00>83.00 (-) 1.19e3



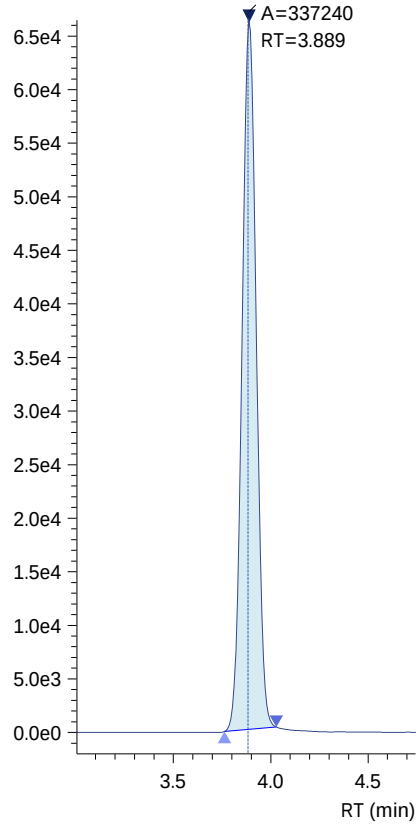
R1 101.00>85.00 (-) 4.35e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.65e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

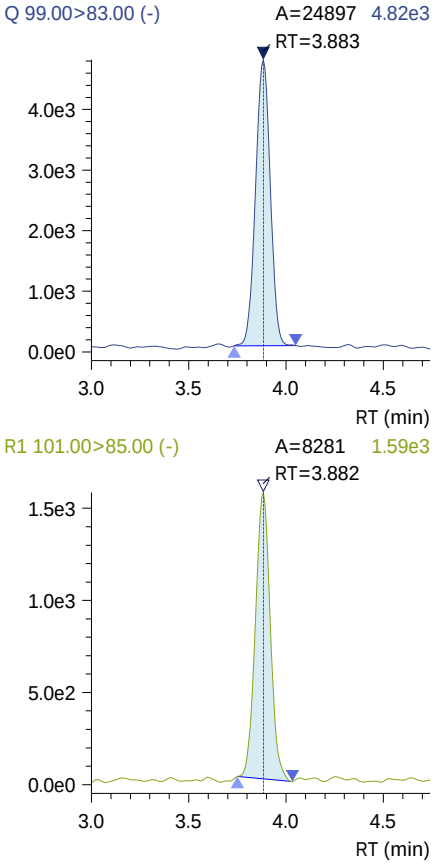
PERCHLORATE2

Sample ID: PERCHLORATE2
Date Acquired: 12/14/2022 3:46:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_005.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.883	24897	336620	0.4720	ng/mL	101.00 >85.00	33.26	23.94 -44.46
Sodium Perchlorate-18O4 _IS	Auto	3.878	336620	336620	1.0000	ng/mL	----	----	

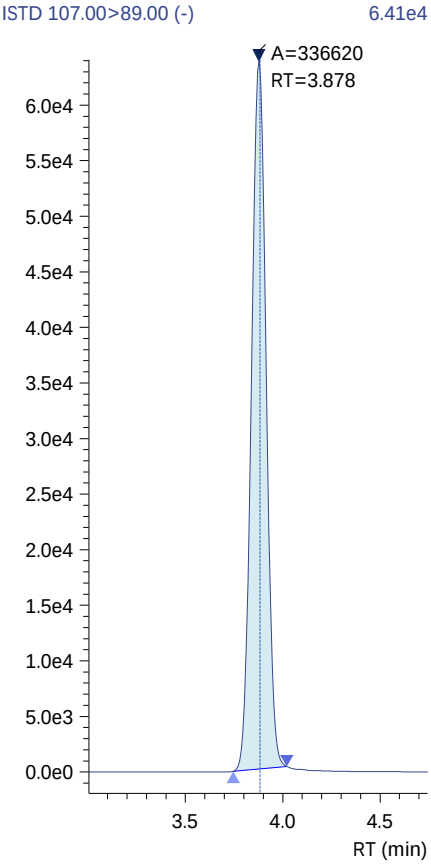
Perchlorate

Conc 0.4720
R#1 33.26 (34.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 12/15/2022 10:55:51 AM

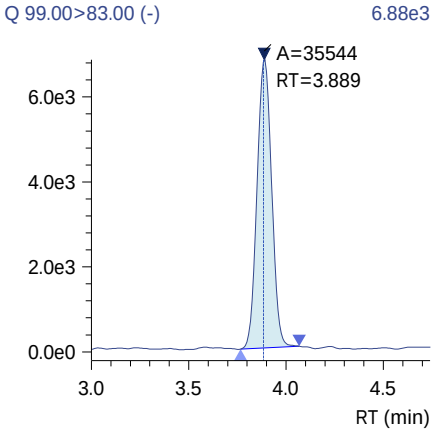
PERCHLORATE3

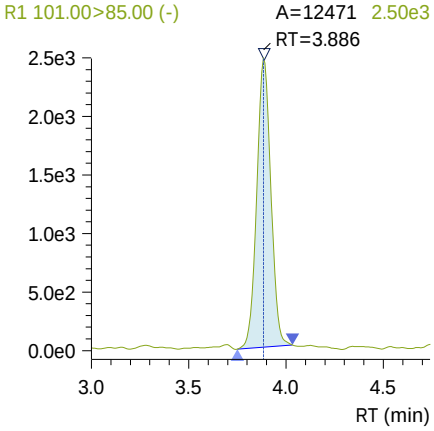
Sample ID: PERCHLORATE3
Date Acquired: 12/14/2022 3:51:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_006.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.889	35544	321596	0.7053	ng/mL	101.00 >85.00	35.09	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.885	321596	321596	1.0000	ng/mL	----	----	

Perchlorate

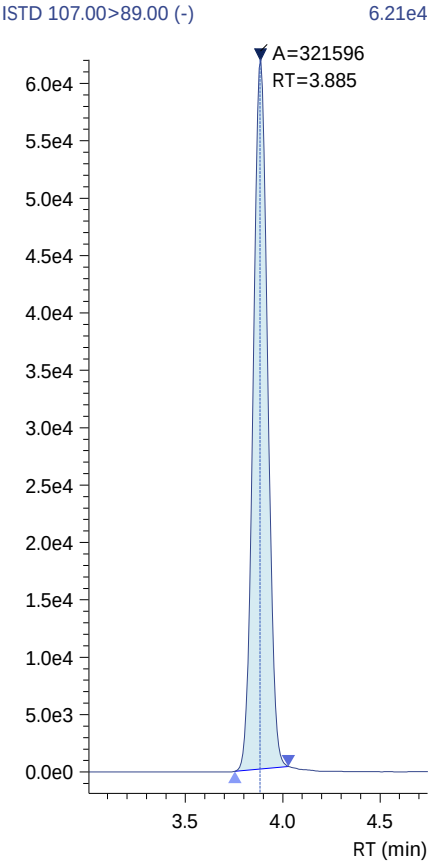
Conc 0.7053
R#1 35.09 (34.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE4

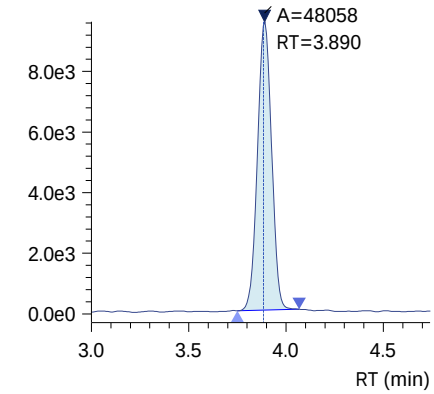
Sample ID: PERCHLORATE4
Date Acquired: 12/14/2022 3:57:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_007.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.890	48058	305584	1.0036	ng/mL	101.00 >85.00	33.87	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.886	305584	305584	1.0000	ng/mL	----	----	

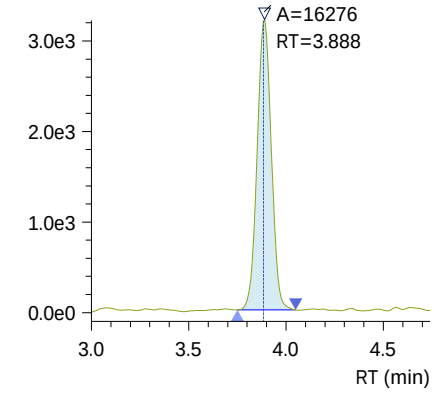
Perchlorate

Conc 1.0036
R#1 33.87 (34.02)

Q 99.00>83.00 (-) 9.64e3



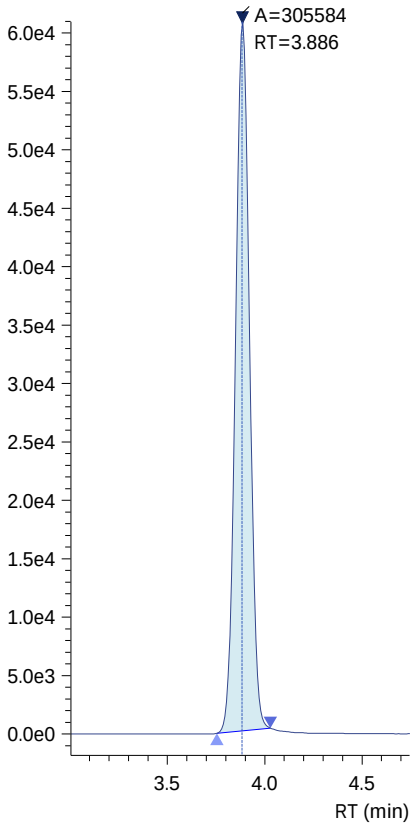
R1 101.00>85.00 (-) 3.23e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.10e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE5

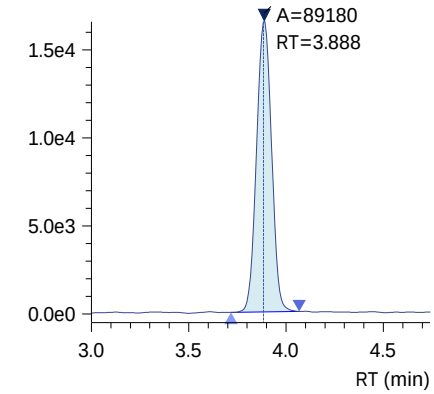
Sample ID: PERCHLORATE5
Date Acquired: 12/14/2022 4:02:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_008.lcd
Vial: 5 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.888	89180	296200	1.9213	ng/mL	101.00 >85.00	32.32	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.885	296200	296200	1.0000	ng/mL	----	----	

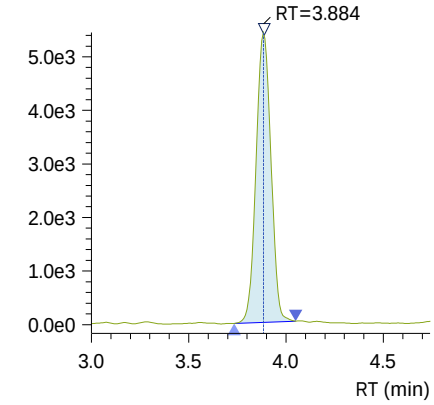
Perchlorate

Conc 1.9213
R#1 32.32 (34.02)

Q 99.00>83.00 (-) 1.66e4



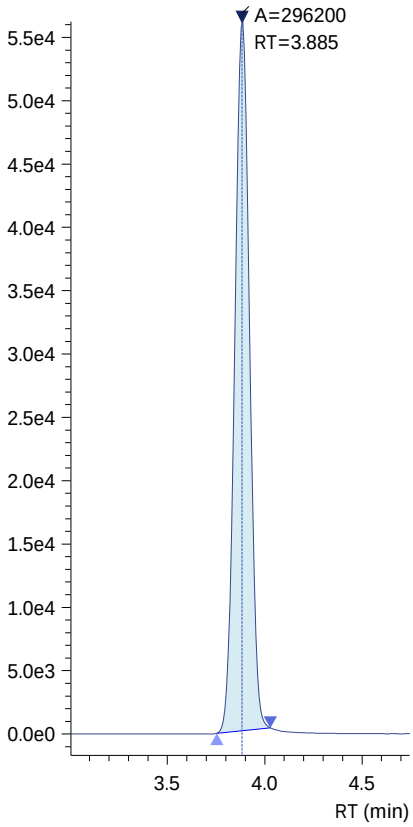
R1 101.00>85.00 (-) A=28822 5.45e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.62e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE6

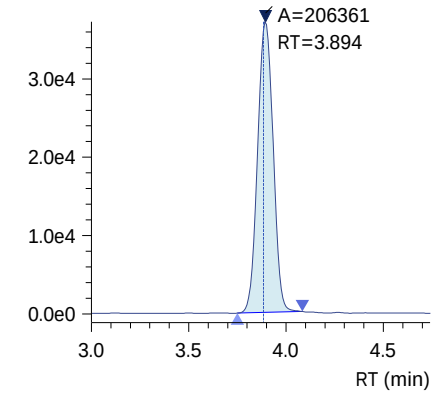
Sample ID: PERCHLORATE6
Date Acquired: 12/14/2022 4:09:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_009.lcd
Vial: 6 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.894	206361	262312	5.0202	ng/mL	101.00 >85.00	33.93	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.889	262312	262312	1.0000	ng/mL	----	----	

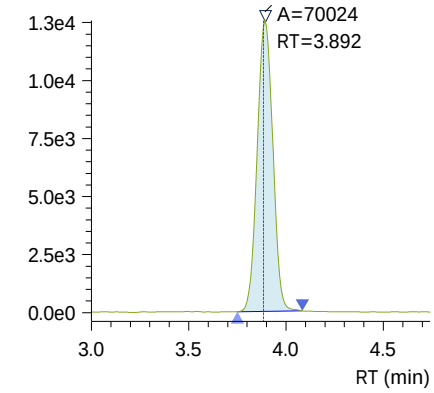
Perchlorate

Conc 5.0202
R#1 33.93 (34.02)

Q 99.00>83.00 (-) 3.73e4



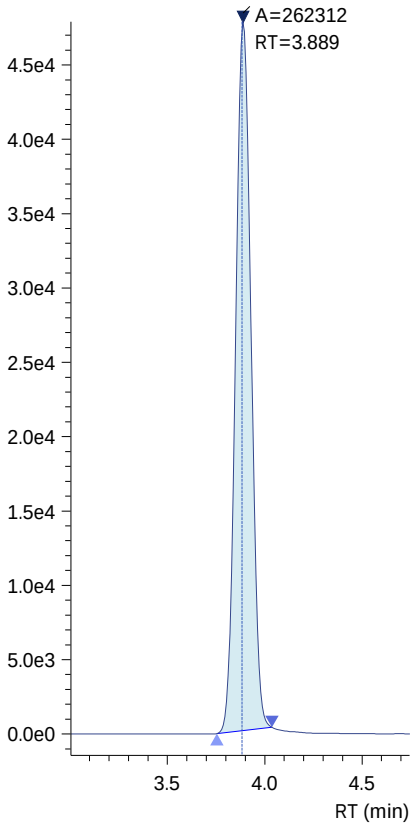
R1 101.00>85.00 (-) 1.26e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.79e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE7

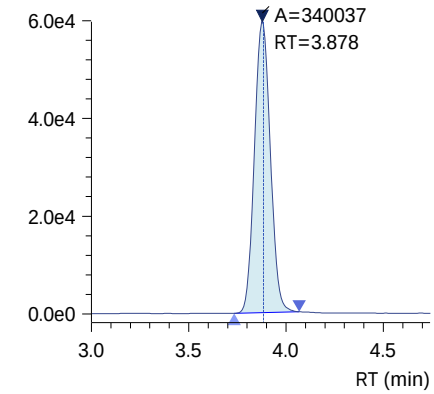
Sample ID: PERCHLORATE7
Date Acquired: 12/14/2022 4:15:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_010.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.878	340037	220702	9.8317	ng/mL	101.00 >85.00	34.05	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.875	220702	220702	1.0000	ng/mL	----	----	

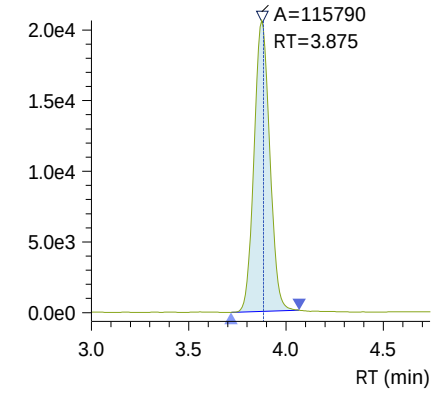
Perchlorate

Conc 9.8317
R#1 34.05 (34.02)

Q 99.00>83.00 (-) 5.98e4



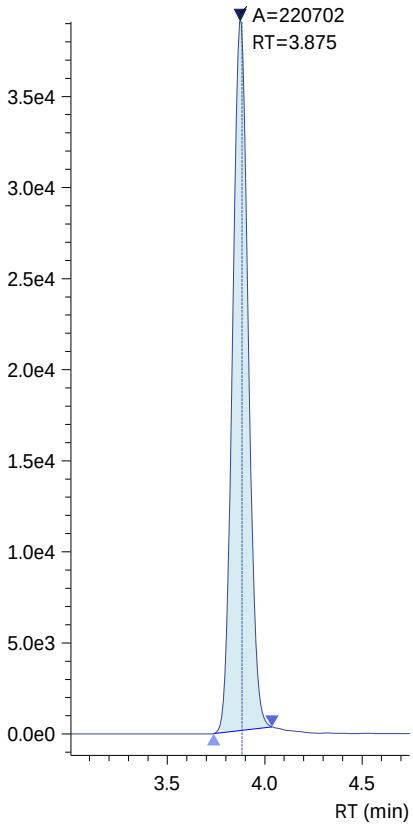
R1 101.00>85.00 (-) 2.07e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.91e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE8

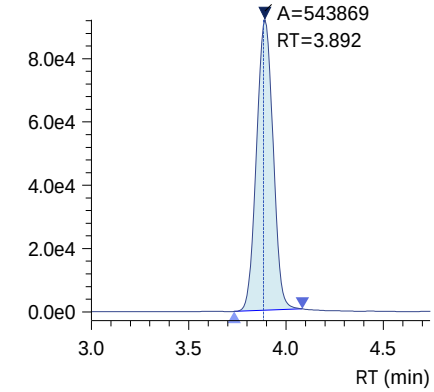
Sample ID: PERCHLORATE8
Date Acquired: 12/14/2022 4:20:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_011.lcd
Vial: 8 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.892	543869	167819	20.6806	ng/mL	101.00 >85.00	33.45	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.888	167819	167819	1.0000	ng/mL	----	----	

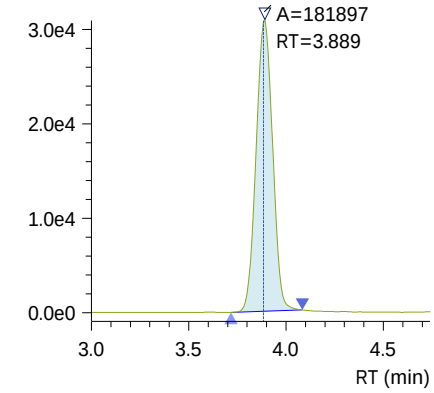
Perchlorate

Conc 20.6806
R#1 33.45 (34.02)

Q 99.00>83.00 (-) 9.23e4



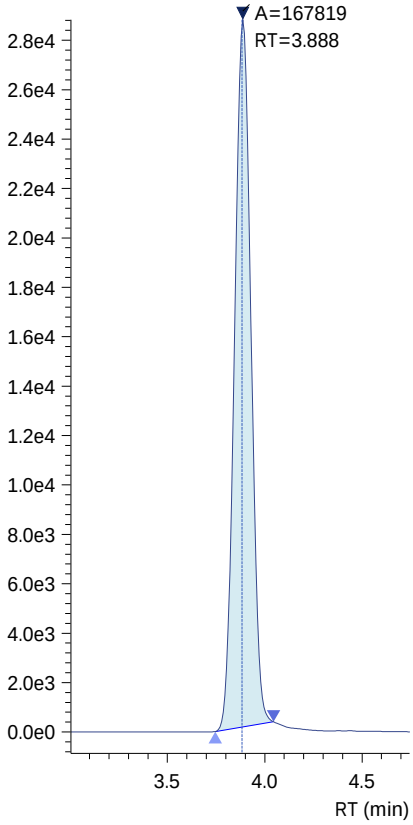
R1 101.00>85.00 (-) 3.09e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.88e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE9

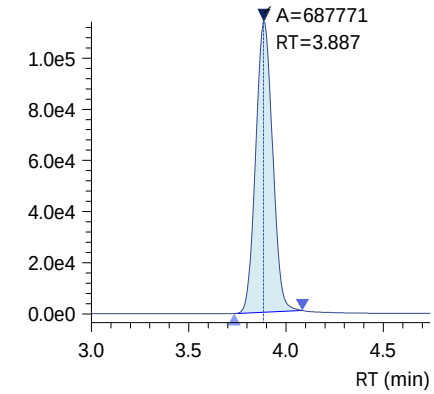
Sample ID: PERCHLORATE9
Date Acquired: 12/14/2022 4:25:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_012.lcd
Vial: 9 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.887	687771	143493	30.5860	ng/mL	101.00 >85.00	33.79	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.883	143493	143493	1.0000	ng/mL	----	----	

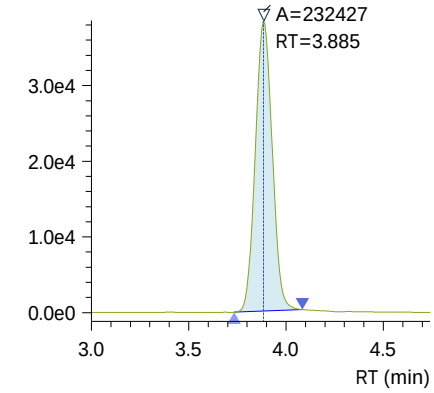
Perchlorate

Conc 30.5860
R#1 33.79 (34.02)

Q 99.00>83.00 (-) 1.14e5



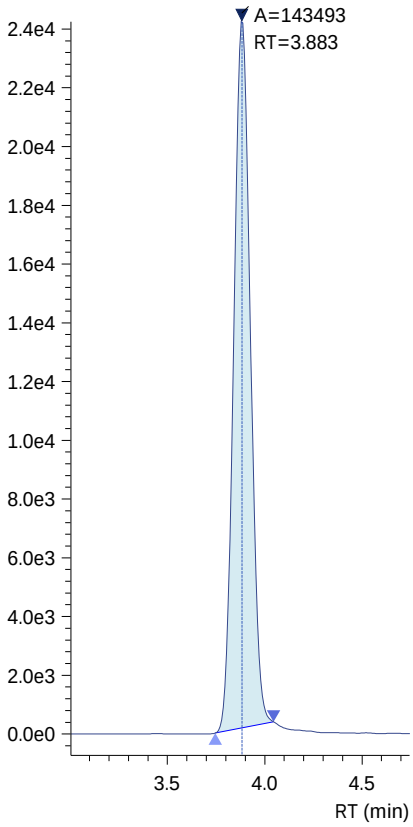
R1 101.00>85.00 (-) 3.86e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.43e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE10

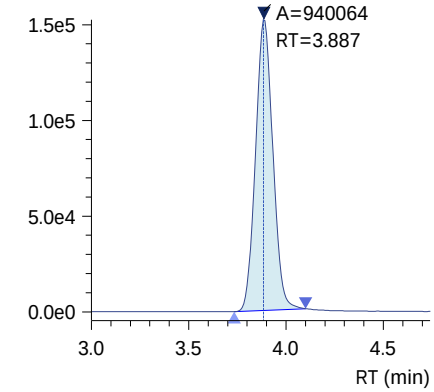
Sample ID: PERCHLORATE10
Date Acquired: 12/14/2022 4:31:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_013.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.887	9400 64	118445	50.6 464	ng/mL	101.00 >85.00	33.39	23.94 -44.46
Sodium Perchlorate-18O4 _IS	Auto	3.883	1184 45	118445	1.0000	ng/mL	----	----	

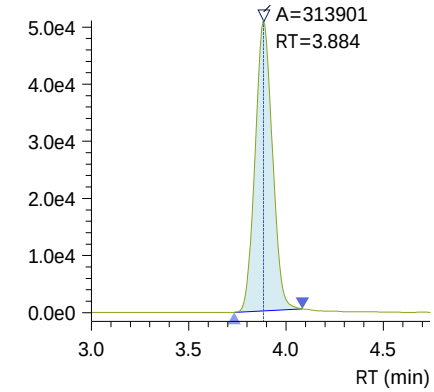
Perchlorate

Conc 50.6464
R#1 33.39 (34.02)

Q 99.00>83.00 (-) 1.53e5



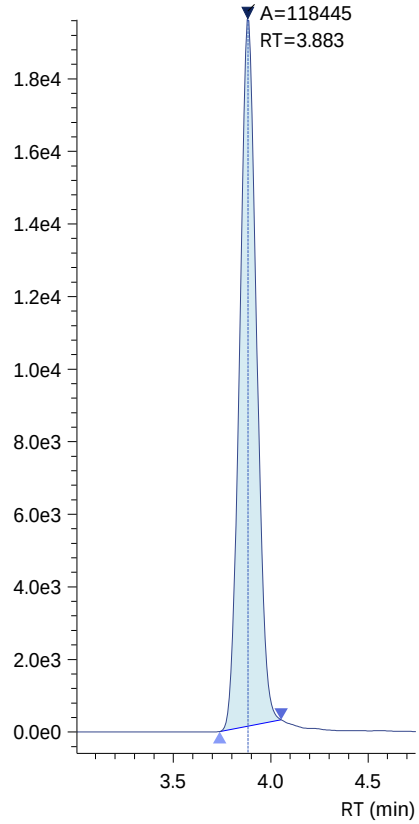
R1 101.00>85.00 (-) 5.12e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.96e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

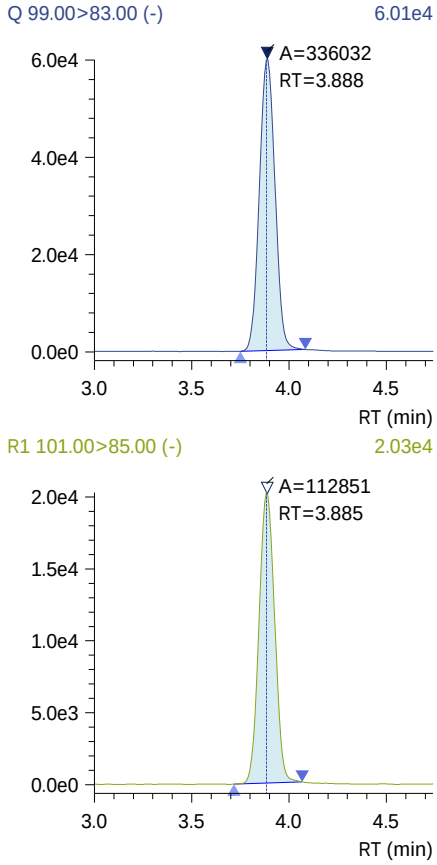
PERCHLORATEICV

Sample ID: PERCHLORATEICV
Date Acquired: 12/14/2022 4:37:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_014.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.888	3360 32	229124	9.3588	ng/mL	101.00 >85.00	33.58	23.94 -44.46
Sodium Perchlorate-18O4 _IS	Auto	3.884	2291 24	229124	1.0000	ng/mL	----	----	

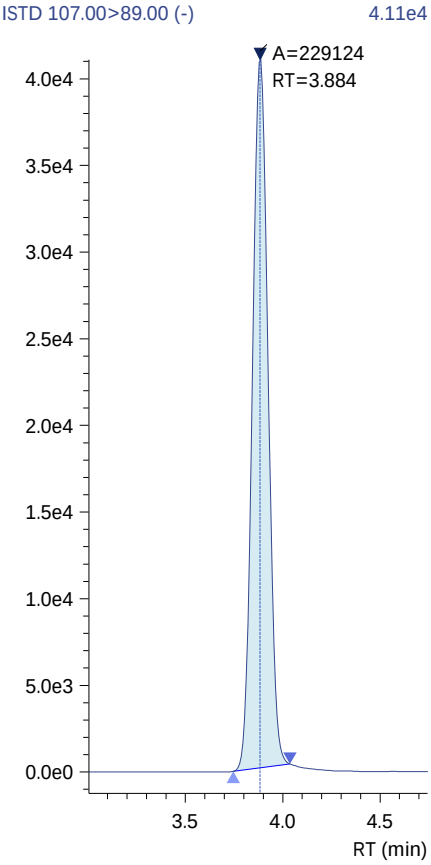
Perchlorate

Conc 9.3588
R#1 33.58 (34.02)



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

20230130-792992

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 12/14/2022
Cal. Std. xp: 01/31/2023
ICAL ID: EC2200016

Mobile Phases : A:0.10% Formic Acid/Water 3210303-02 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	ICS		20230130-002	Perchlorate6850c.lcm	1x	☒	32103024	1/30/2023 9:14
2	LODV		20230130-003	Perchlorate6850c.lcm	1x	☒	225199	1/30/2023 9:31
3	PERCHLORATE7		20230130-004	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 9:38
4	E2300068-008		20230130-005	Perchlorate6850c.lcm	1x	☒		1/30/2023 9:44
5	E2300078-001		20230130-006	Perchlorate6850c.lcm	1x	☒		1/30/2023 9:50
6	E2300078-002		20230130-007	Perchlorate6850c.lcm	1x	☒		1/30/2023 9:56
7	E2300078-003		20230130-008	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:01
8	E2300078-004		20230130-009	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:07
9	E2300078-005		20230130-010	Perchlorate6850c.lcm	1x	☒	DNU-IR	1/30/2023 10:13
10	E2300078-006		20230130-011	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:19
11	E2300078-007		20230130-012	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:24
12	E2300078-008		20230130-013	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:30
13	E2300078-005		20230130-014	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:56
14	PERCHLORATE7		20230130-015	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 11:02
15	E2300067-002		20230130-016	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:07
16	E2300067-003		20230130-017	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:13
17	E2300067-005		20230130-018	Perchlorate6850c.lcm	1000x	☒		1/30/2023 11:23
18	E2300067-006		20230130-019	Perchlorate6850c.lcm	5000x	☒		1/30/2023 11:29
19	E2300068-006		20230130-020	Perchlorate6850c.lcm	5x	☒		1/30/2023 11:35
20	E2300068-007		20230130-021	Perchlorate6850c.lcm	20x	☒		1/30/2023 11:41
21	EQ2300031-01		20230130-022	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:47
22	EQ2300031-02		20230130-023	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:52
23	EQ2300031-03		20230130-024	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:07
24	PERCHLORATE7		20230130-025	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 12:30
25	EQ2300031-04		20230130-026	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:36
26	EQ2300031-05		20230130-027	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:42
27	E2300079-001		20230130-028	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:48
28	E2300079-002		20230130-029	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:53
29	E2300079-003		20230130-030	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:59
30	E2300079-004		20230130-031	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:05
31	E2300079-005		20230130-032	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:11
32	E2300079-006		20230130-033	Perchlorate6850c.lcm	1x	☒	DNU-CONFIRM PEAK	1/30/2023 13:16
33	E2300081-001		20230130-034	Perchlorate6850c.lcm	1x	☒	DNU-CONFIRM PEAK	1/30/2023 13:22
34	E2300081-002		20230130-035	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:28
35	PERCHLORATE7		20230130-036	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 13:34
36	E2300081-003		20230130-037	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:40
37	E2300081-004		20230130-038	Perchlorate6850c.lcm	1x	☒	DNU-CONFIRM PEAK	1/30/2023 13:45
38	E2300079-006		20230130-039	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:06
39	E2300081-001		20230130-040	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:11
40	E2300082-001		20230130-041	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:17

20230130-792992

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 12/14/2022
Cal. Std. xp: 01/31/2023
ICAL ID: EC2200016

Mobile Phases : A:0.10% Formic Acid/Water 3210303-02 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
41	EQ2300031-06		20230130-042	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:23
42	EQ2300031-07		20230130-043	Perchlorate6850c.lcm	1x	☒	DNU-IR	1/30/2023 15:29
43	E2300082-002		20230130-044	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:34
44	E2300082-003		20230130-045	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:40
45	E2300082-004		20230130-046	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:46
46	PERCHLORATE7		20230130-047	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 15:52
47	EQ2300031-07		20230130-048	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:58
48	E2300084-001		20230130-049	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:03
49	E2300084-002		20230130-050	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:09
50	E2300084-003		20230130-051	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:15
51	E2300084-004		20230130-052	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:21
52	R2300559-004		20230130-053	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:26
53	R2300559-009		20230130-054	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:32
54	E2300081-004		20230130-055	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:38
55	PERCHLORATE7		20230130-056	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 17:01

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Analyzed:**	1/30/23 09:38

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-004	**Lab Code:**	EQ2300043-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-01	197,571	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300079
Project:	HS23011136	**Date Analyzed:**	1/30/23 11:02

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-015	**Lab Code:**	EQ2300043-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-02	174,063	3.46
Method Blank	EQ2300031-01	226,687	3.45
Lab Control Sample	EQ2300031-02	221,162	3.46
Duplicate Lab Control Sample	EQ2300031-03	220,769	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	**Service Request:**	E2300079
Project:	HS23011136	**Date Analyzed:**	1/30/23 12:30

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-025	**Lab Code:**	EQ2300043-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-03	194,356	3.45
16IW10-230123MS	EQ2300031-04	270,500	3.46
16IW10-230123DMS	EQ2300031-05	269,008	3.46
16WW58-230123	E2300079-001	246,971	3.46
16WW57-230123	E2300079-002	238,100	3.46
16IW26-230123	E2300079-003	295,378	3.46
16IW10-230123	E2300079-004	262,698	3.46
16IW03-230123	E2300079-005	250,378	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	**Service Request:**	E2300079
Project:	HS23011136	**Date Analyzed:**	1/30/23 13:34

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-036	**Lab Code:**	EQ2300043-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-04	196,716	3.46
16IW03-230123-FD	E2300079-006	241,011	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	**Service Request:**	E2300079
Project:	HS23011136	**Date Analyzed:**	1/30/23 15:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-047	**Lab Code:**	EQ2300043-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-05	180,587	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	**Service Request:**	E2300079
Project:	HS23011136	**Date Analyzed:**	1/30/23 17:01

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-056	**Lab Code:**	EQ2300043-06
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-06	167,665	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: HS23011136

Service Request: E2300079
Date Analyzed: 1/30/23

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\20230130\20230130-004

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1567	0.1655	5.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011136

Service Request: E2300079
Date Analyzed: 1/30/23

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\20230130\20230130-015

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1567	0.1593	1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011136

Service Request: E2300079
Date Analyzed: 1/30/23

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\20230130\20230130-025

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.84	0.1567	0.1540	-1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011136

Service Request: E2300079
Date Analyzed: 1/30/23

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\20230130\20230130-036

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.94	0.1567	0.1554	-0.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011136

Service Request: E2300079
Date Analyzed: 1/30/23

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\20230130\20230130-047

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1567	0.1592	1.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011136

Service Request: E2300079
Date Analyzed: 1/30/23

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\20230130\20230130-056

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.92	0.1567	0.1551	-1.0	NA	± 15 %	Average RF

Insight Report

Printed at 1/31/2023 9:35:02 AM

Method File: I:\LCMS01\DATA\20230130\20230130.lcm
Project File: I:\LCMS01\DATA\20230130\20230130.damlp

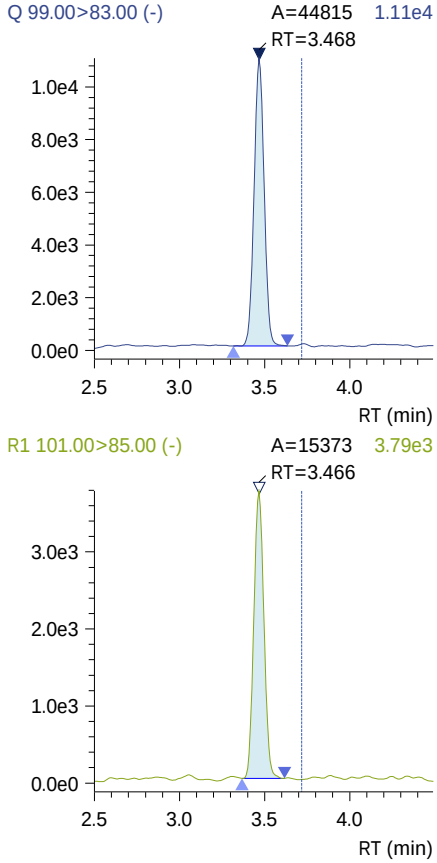
ICS

Sample ID: ICS
Date Acquired: 1/30/2023 9:14:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-002.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.468	44815	257791	1.1115	ng/mL	101.00 >85.00	34.30	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.464	257791	257791	1.0000	ng/mL	----	----	

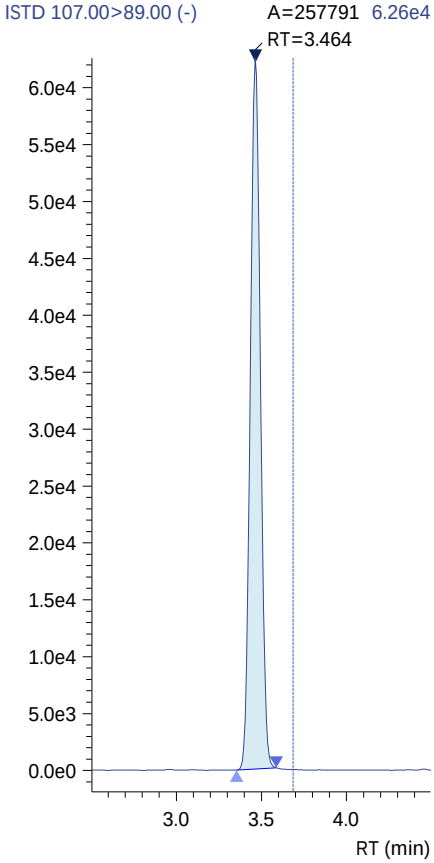
Perchlorate

Conc 1.1115
R#1 34.30 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

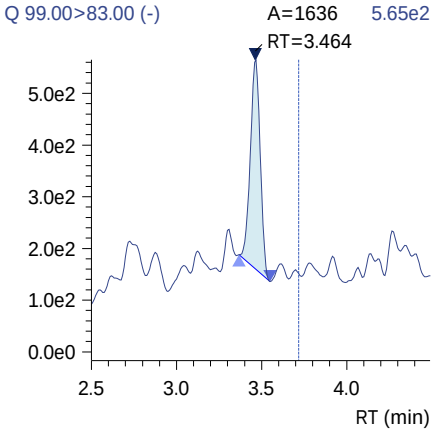
LODV

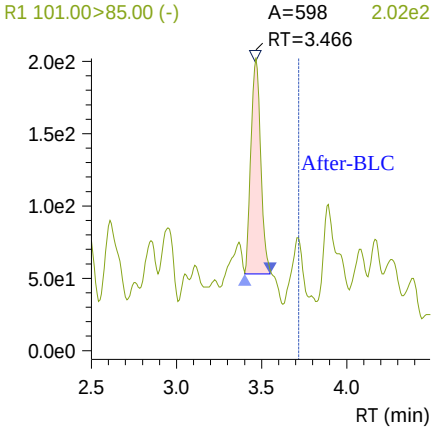
Sample ID: LODV
Date Acquired: 1/30/2023 9:31:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-003.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.464	1636	217222	0.0481	ng/mL	101.00 >85.00	36.56	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.461	2172 22	217222	1.0000	ng/mL	----	----	

Perchlorate

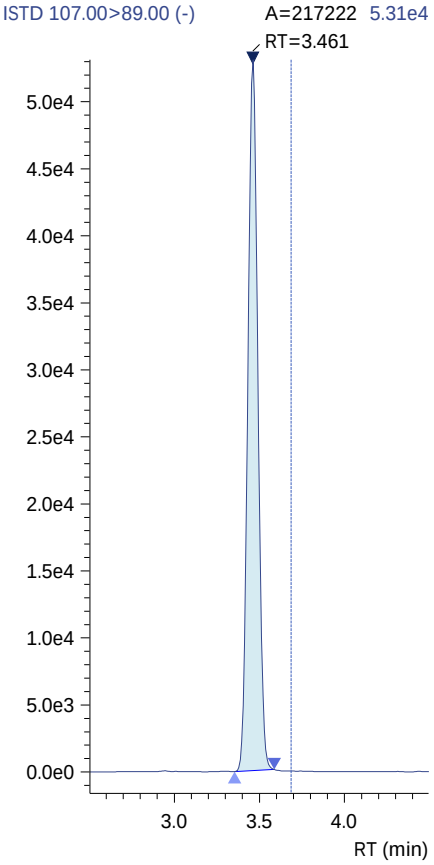
Conc 0.0481
R#1 36.56 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

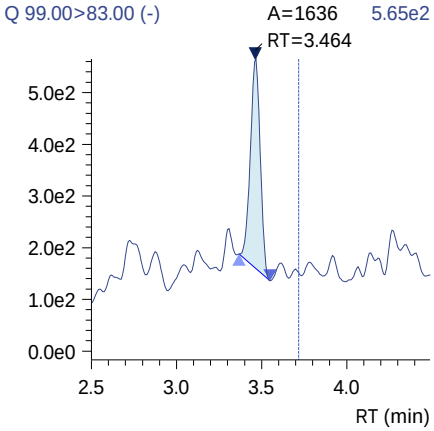
Method File: I:\LCMS01\DATA\20230130\20230130.lcm
Project File: I:\LCMS01\DATA\20230130\20230130.damlp

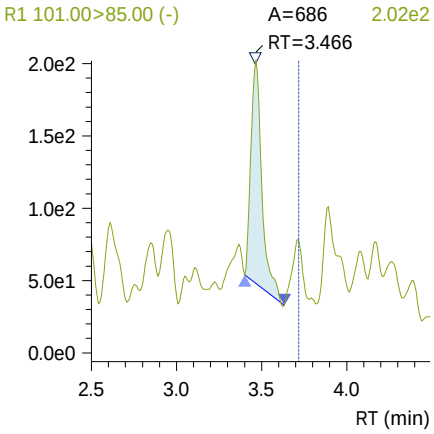
LODV

Sample ID: LODV
Date Acquired: 1/30/2023 9:31:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-003.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 0

Perchlorate

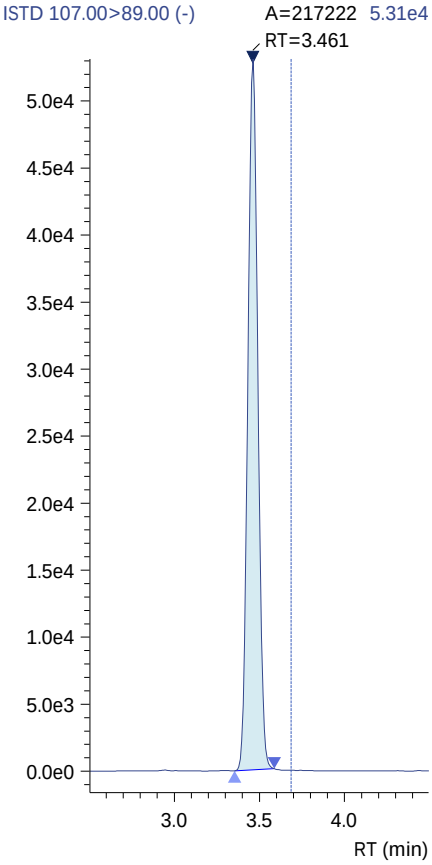
Conc 0.0480
R#1 41.93 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

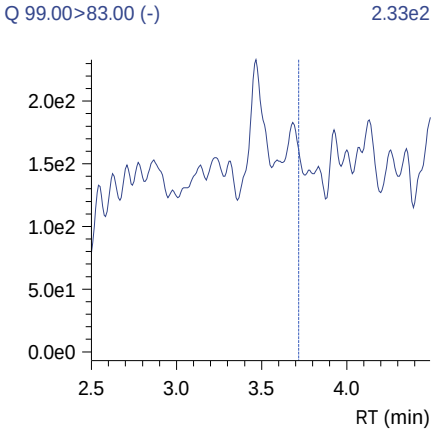
EQ2300031-01

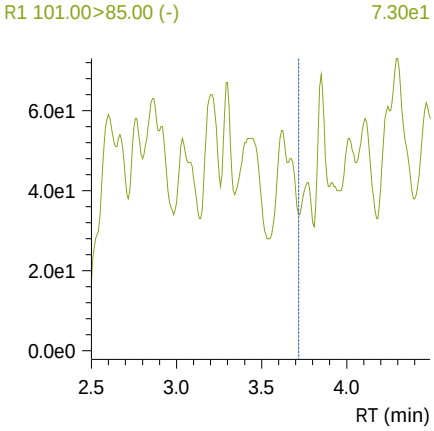
Sample ID: EQ2300031-01
Date Acquired: 1/30/2023 11:47:02 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-022.lcd
Vial: 53 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	226687	----	ng/mL	101.00 >85.00	0.00	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.454	226687	226687	1.0000	ng/mL	----	----	

Perchlorate

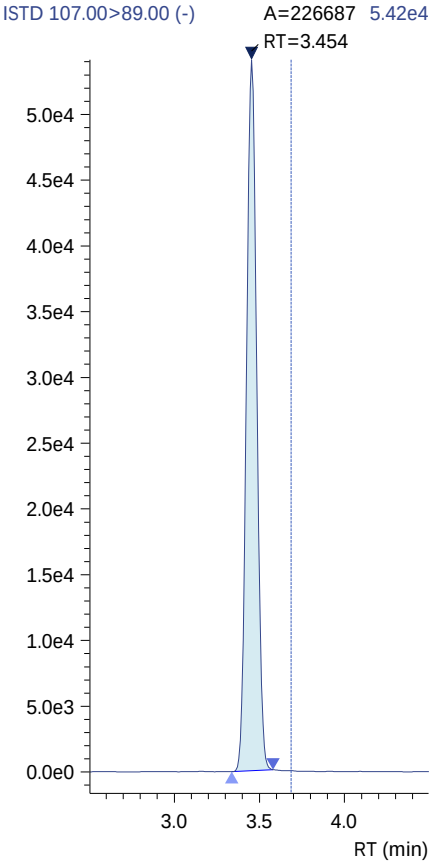
Conc ----
R#1 0.00 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

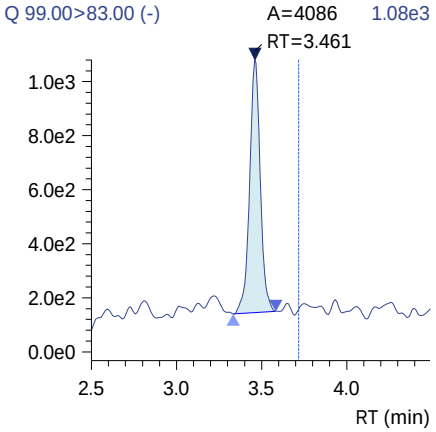
EQ2300031-02

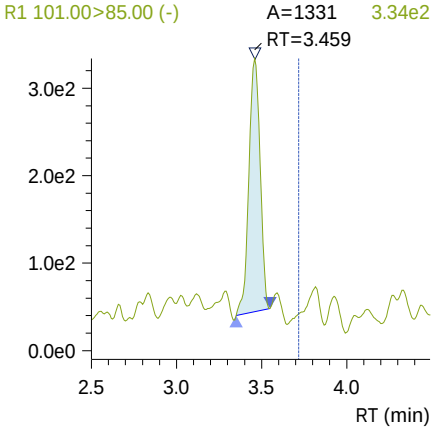
Sample ID: EQ2300031-02
Date Acquired: 1/30/2023 11:52:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-023.lcd
Vial: 54 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.461	4086	221162	0.1181	ng/mL	101.00 >85.00	32.57	22.32 -41.46
Sodium Perchlorate-18O4_IS	M	3.457	221162	221162	1.0000	ng/mL	----	----	

Perchlorate

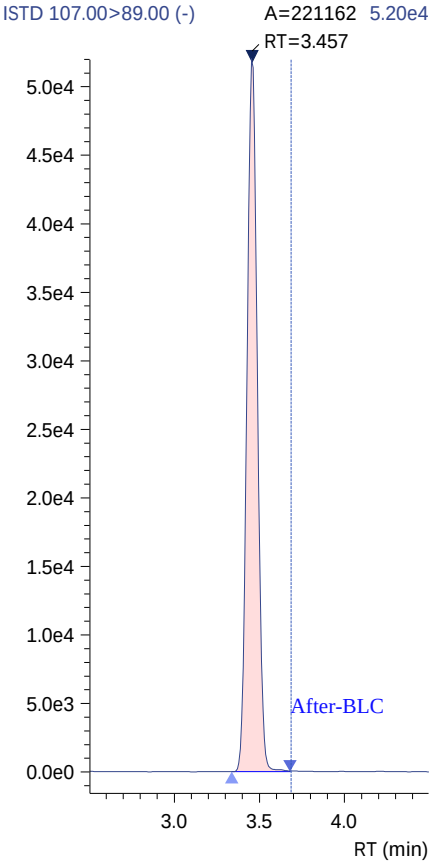
Conc 0.1181
R#1 32.57 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:37:55 AM

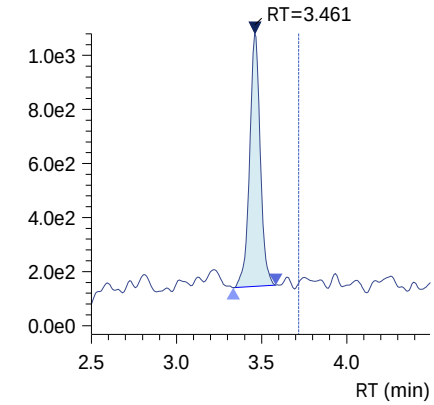
EQ2300031-02

Sample ID: EQ2300031-02
Date Acquired: 1/30/2023 11:52:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-023.lcd
Vial: 54 | Inj. Volume: 25.0000uL | Tray: 4

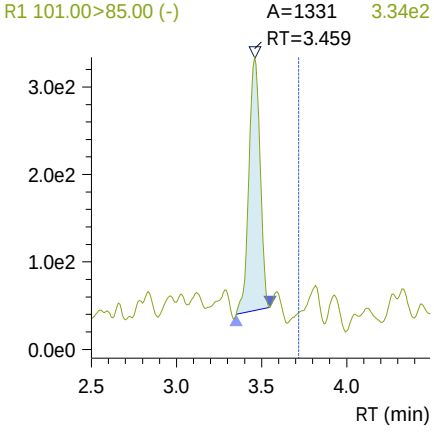
Perchlorate

Conc 0.1190
R#1 32.57 (31.89)

Q 99.00>83.00 (-) A=4086 1.08e3



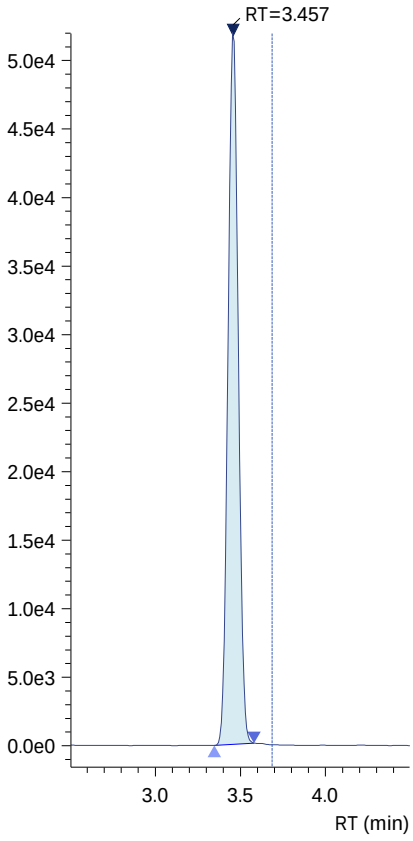
R1 101.00>85.00 (-) A=1331 3.34e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=219144 5.20e4



Insight Report

Printed at 1/31/2023 9:35:02 AM

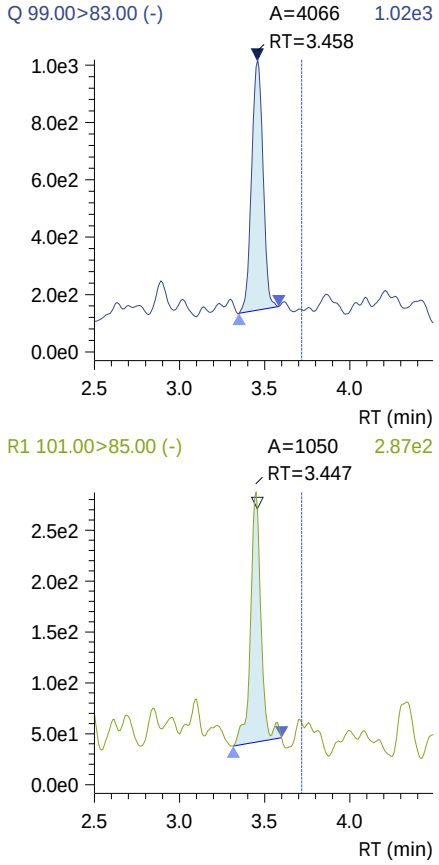
EQ2300031-03

Sample ID: EQ2300031-03
Date Acquired: 1/30/2023 12:07:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-024.lcd
Vial: 55 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	4066	220769	0.1178	ng/mL	101.00 >85.00	25.81	22.32 -41.46
Sodium Perchlorate-18O4_IS	M	3.452	220769	220769	1.0000	ng/mL	----	----	

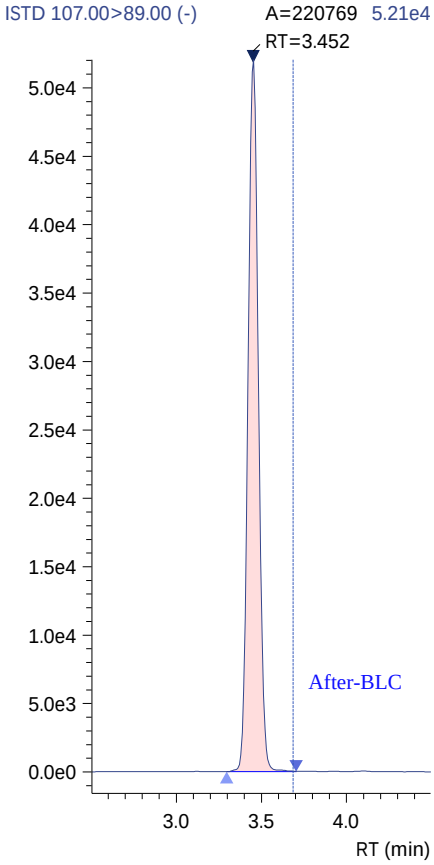
Perchlorate

Conc 0.1178
R#1 25.81 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:37:55 AM

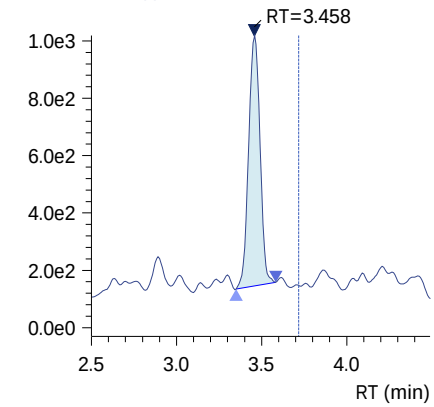
EQ2300031-03

Sample ID: EQ2300031-03
Date Acquired: 1/30/2023 12:07:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-024.lcd
Vial: 55 | Inj. Volume: 25.0000uL | Tray: 4

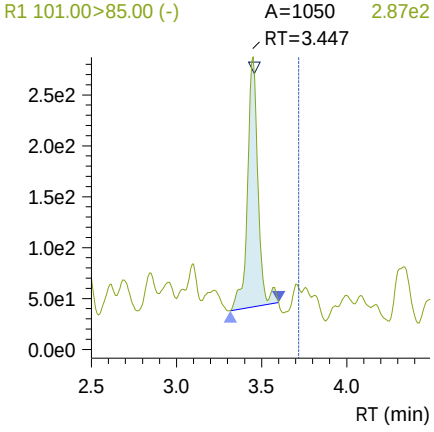
Perchlorate

Conc 0.1190
R#1 25.81 (31.89)

Q 99.00>83.00 (-) A=4066 1.02e3



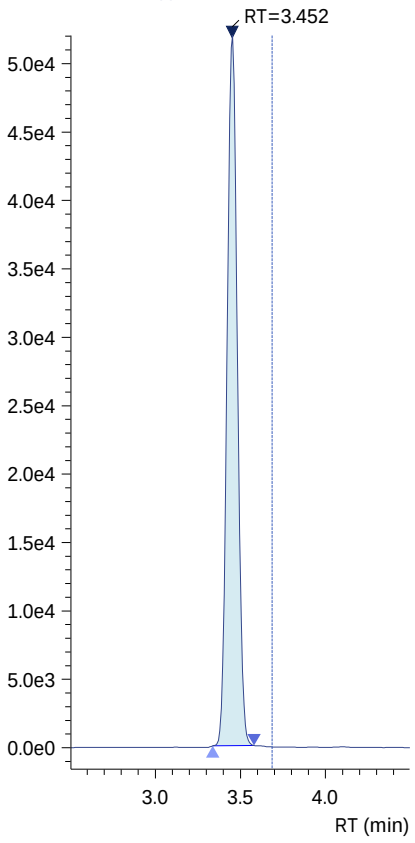
R1 101.00>85.00 (-) A=1050 2.87e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=218134 5.21e4



Insight Report

Printed at 1/31/2023 9:35:02 AM

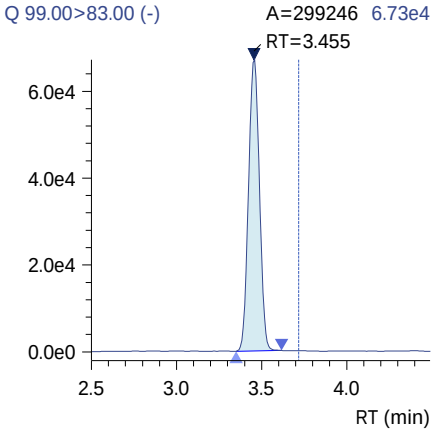
PERCHLORATE7

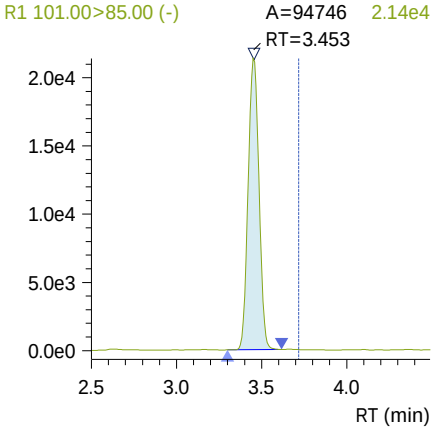
Sample ID: PERCHLORATE7
Date Acquired: 1/30/2023 12:30:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-025.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	299246	194356	9.8445	ng/mL	101.00 >85.00	31.66	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.450	194356	194356	1.0000	ng/mL	----	----	

Perchlorate

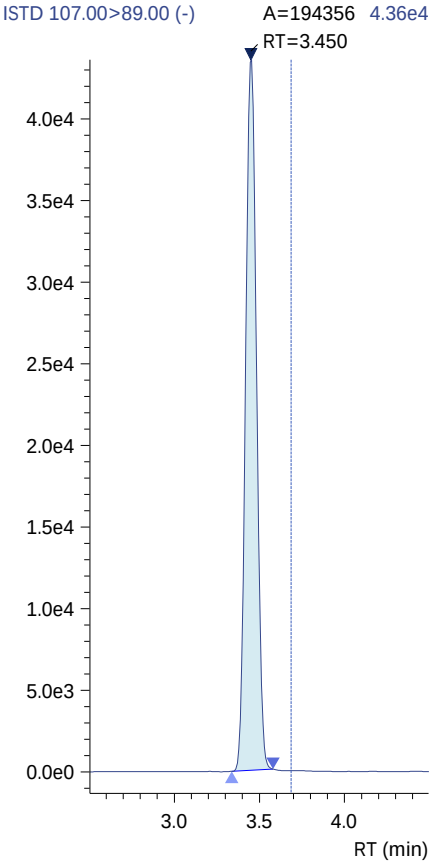
Conc 9.8445
R#1 31.66 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

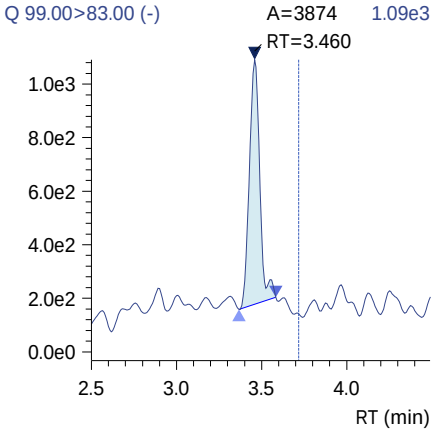
EQ2300031-04

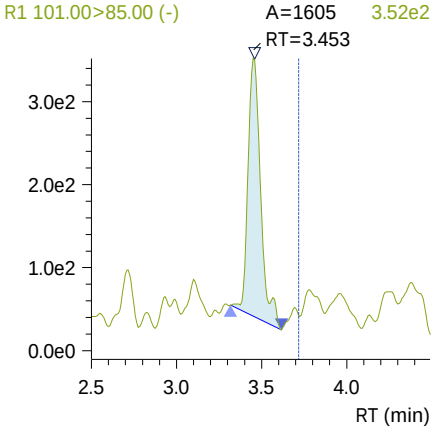
Sample ID: EQ2300031-04
Date Acquired: 1/30/2023 12:36:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-026.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.460	3874	270500	0.0916	ng/mL	101.00 >85.00	41.43	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.455	270500	270500	1.0000	ng/mL	----	----	

Perchlorate

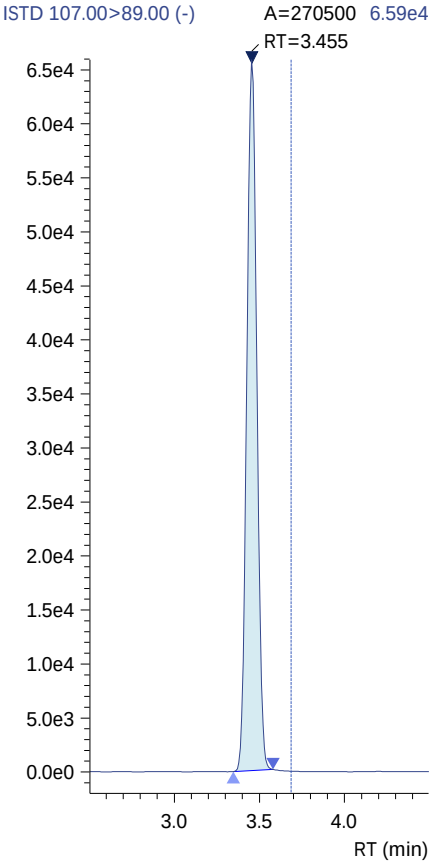
Conc 0.0916
R#1 41.43 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

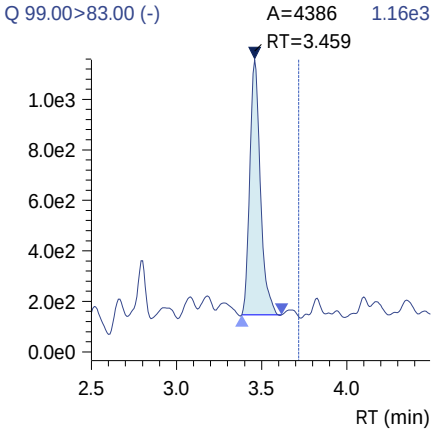
EQ2300031-05

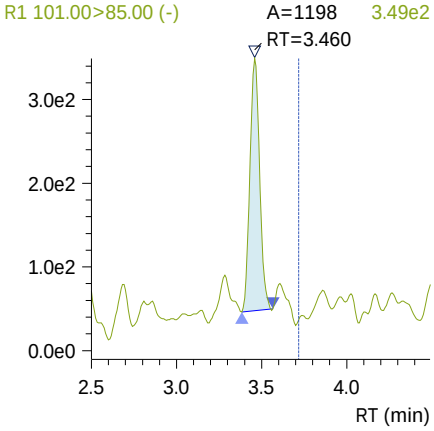
Sample ID: EQ2300031-05
Date Acquired: 1/30/2023 12:42:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-027.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	4386	269008	0.1042	ng/mL	101.00 >85.00	27.32	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.457	269008	269008	1.0000	ng/mL	----	----	

Perchlorate

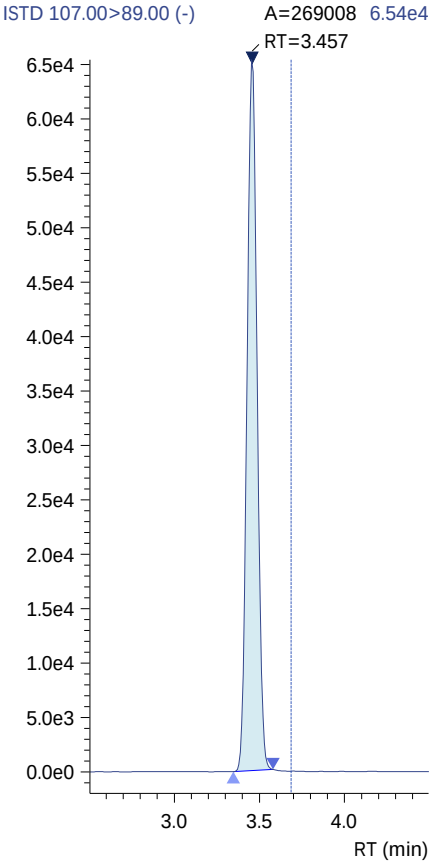
Conc 0.1042
R#1 27.32 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

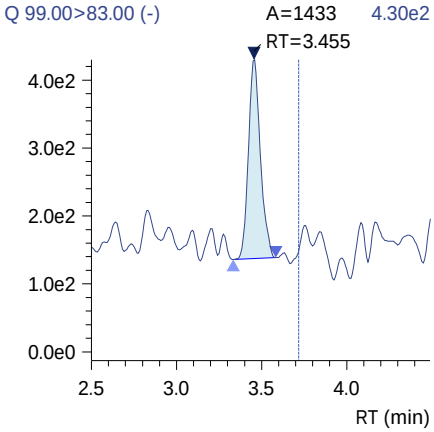
E2300079-001

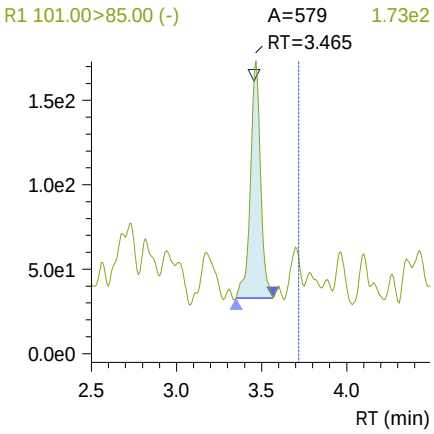
Sample ID: E2300079-001
Date Acquired: 1/30/2023 12:48:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-028.lcd
Vial: 47 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	1433	246971	0.0371	ng/mL	101.00 >85.00	40.40	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.458	246971	246971	1.0000	ng/mL	----	----	

Perchlorate

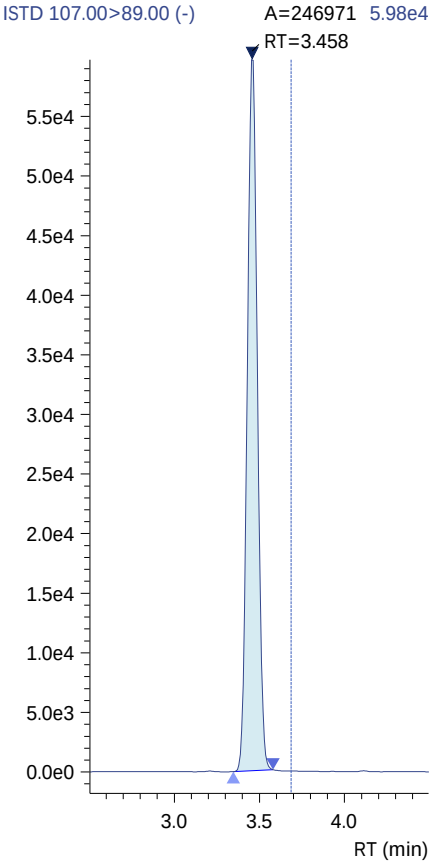
Conc 0.0371
R#1 40.40 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

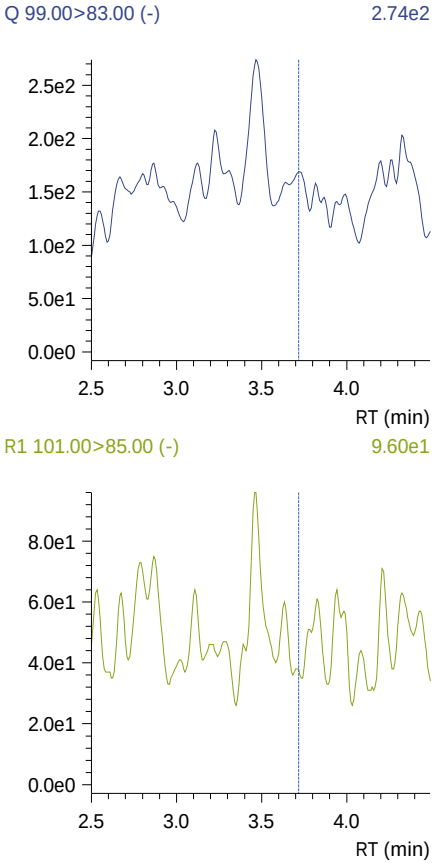
E2300079-002

Sample ID: E2300079-002
Date Acquired: 1/30/2023 12:53:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-029.lcd
Vial: 48 | Inj. Volume: 25.0000uL | 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)	----	----	238100	----	ng/mL	101.00 >85.00	0.00	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.458	238100	238100	1.0000	ng/mL	----	----	

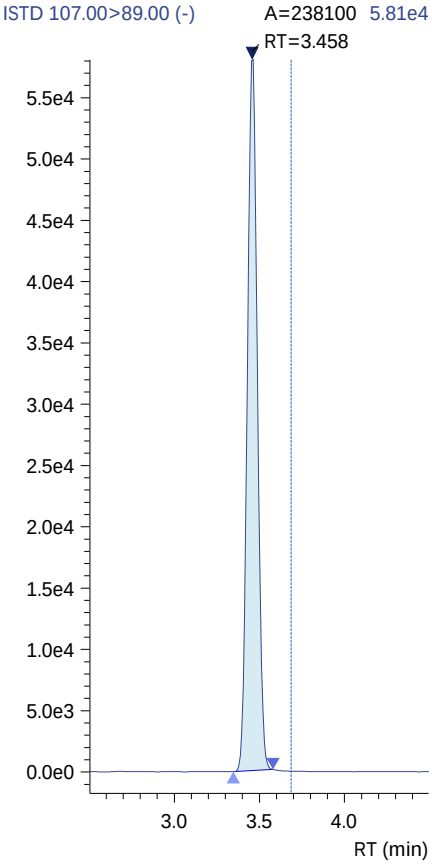
Perchlorate

Conc ----
R#1 0.00 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

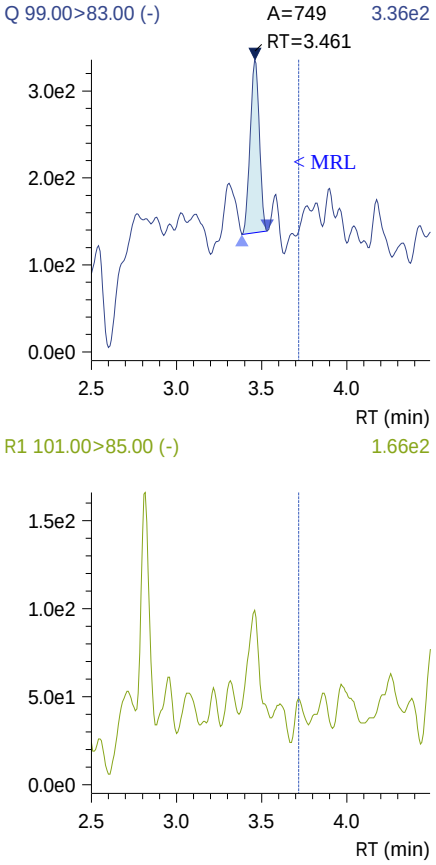
E2300079-003

Sample ID: E2300079-003
Date Acquired: 1/30/2023 12:59:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-030.lcd
Vial: 49 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.461	749	295378	0.0162	ng/mL	101.00 >85.00	0.00	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.456	295378	295378	1.0000	ng/mL	----	----	

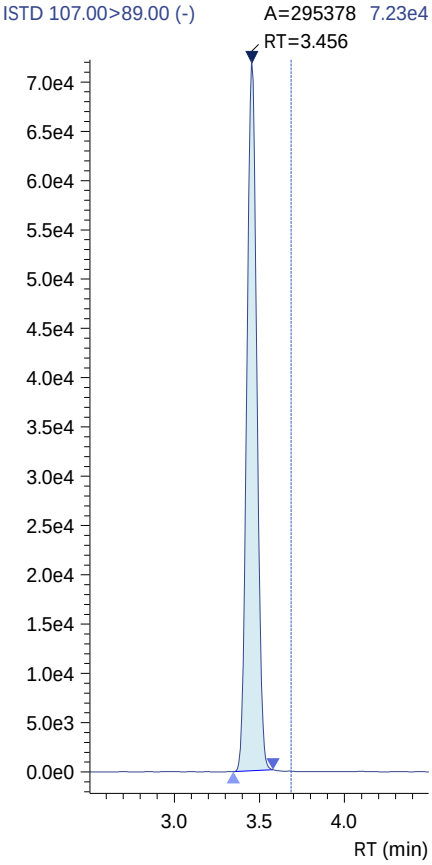
Perchlorate

Conc 0.0162
R#1 0.00 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

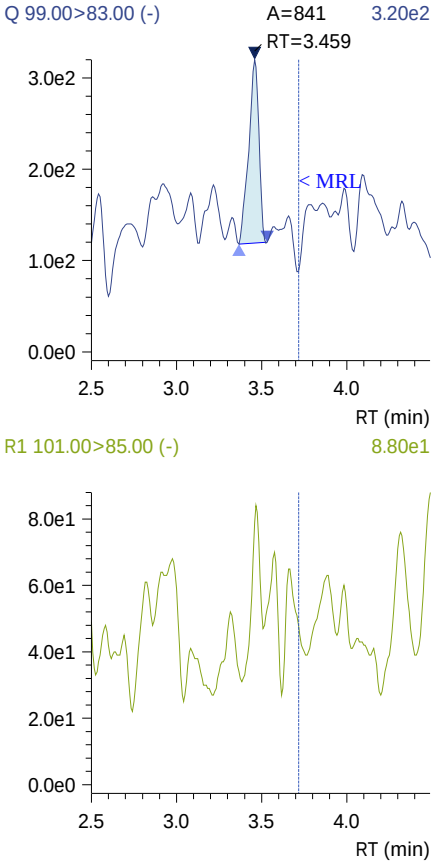
E2300079-004

Sample ID: E2300079-004
Date Acquired: 1/30/2023 1:05:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-031.lcd
Vial: 50 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	841	262698	0.0205	ng/mL	101.00 >85.00	0.00	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.456	262698	262698	1.0000	ng/mL	----	----	

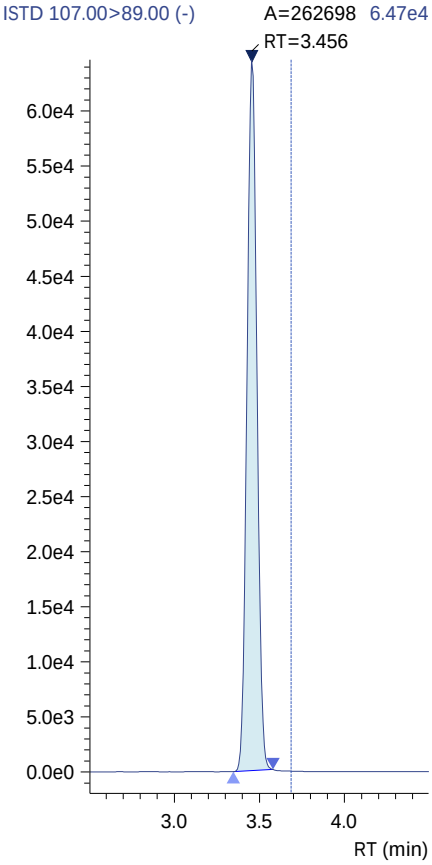
Perchlorate

Conc 0.0205
R#1 0.00 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

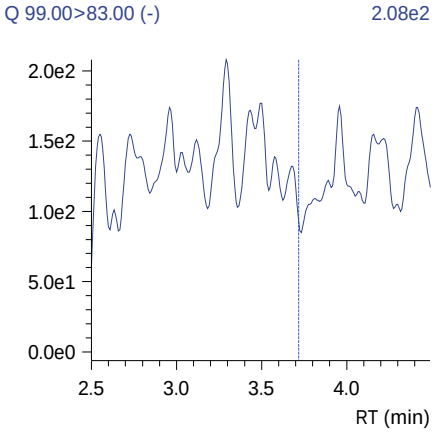
E2300079-005

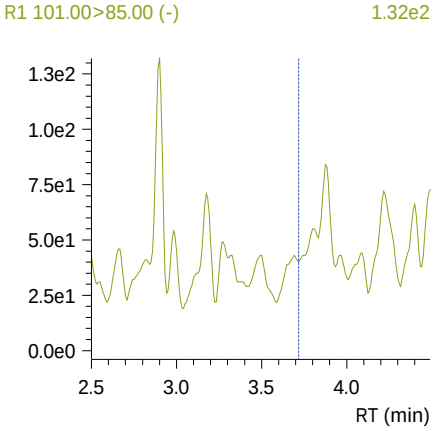
Sample ID: E2300079-005
Date Acquired: 1/30/2023 1:11:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-032.lcd
Vial: 51 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	250378	----	ng/mL	101.00 >85.00	0.00	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.454	250378	250378	1.0000	ng/mL	----	----	

Perchlorate

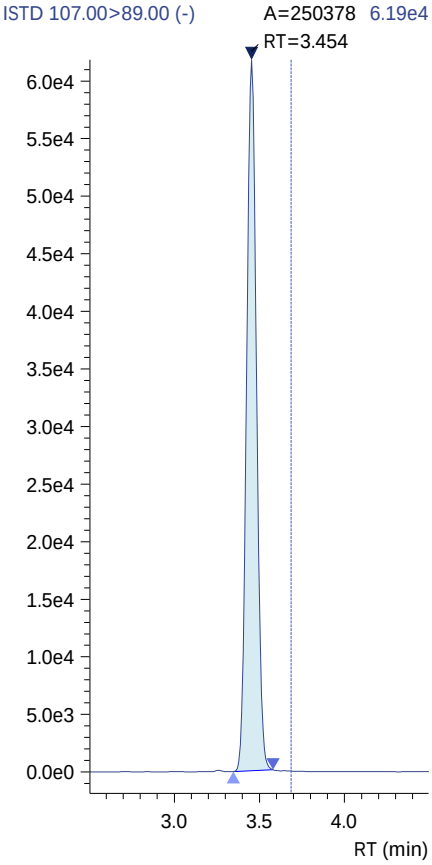
Conc ----
R#1 0.00 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

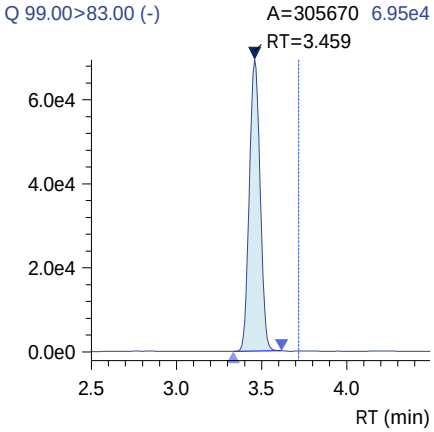
PERCHLORATE7

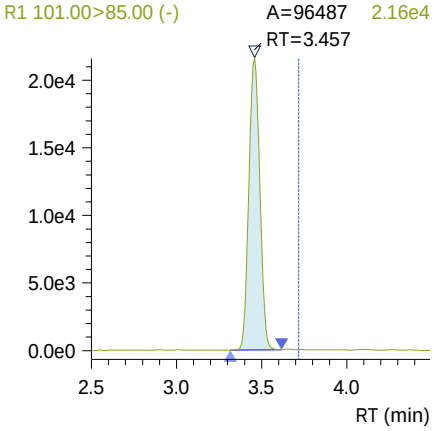
Sample ID: PERCHLORATE7
Date Acquired: 1/30/2023 1:34:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-036.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	305670	196716	9.9351	ng/mL	101.00 >85.00	31.57	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.455	196716	196716	1.0000	ng/mL	----	----	

Perchlorate

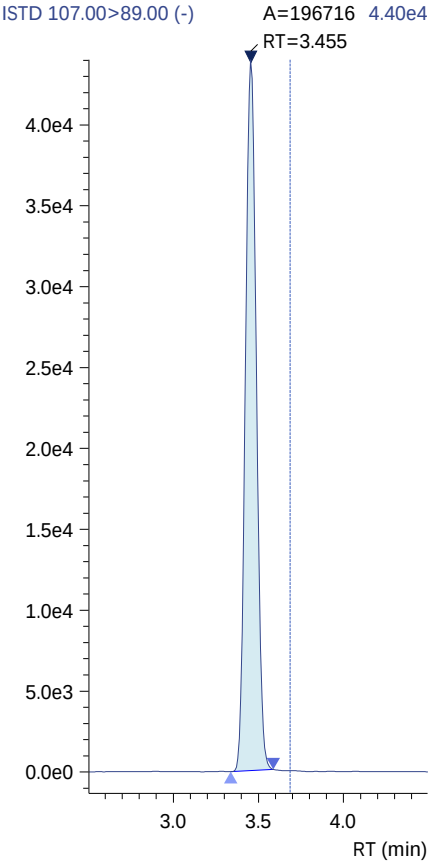
Conc 9.9351
R#1 31.57 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

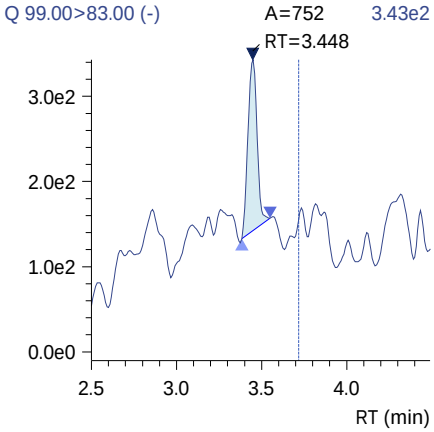
E2300079-006

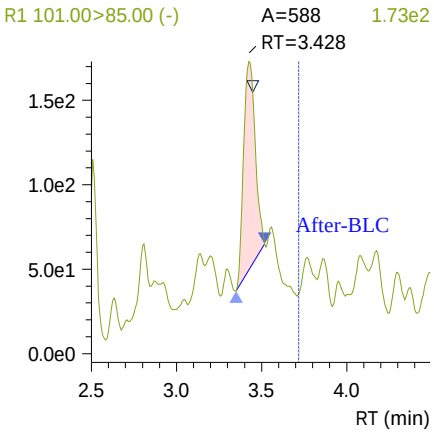
Sample ID: E2300079-006
Date Acquired: 1/30/2023 3:06:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-039.lcd
Vial: 52 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.448	752	241011	0.0199	ng/mL	101.00 >85.00	78.18	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.441	2410 11	241011	1.0000	ng/mL	----	----	

Perchlorate

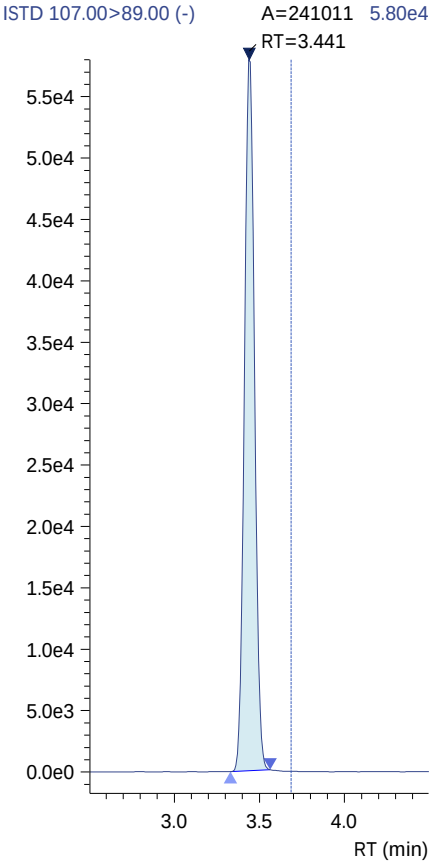
Conc 0.0199
R#1 78.18 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

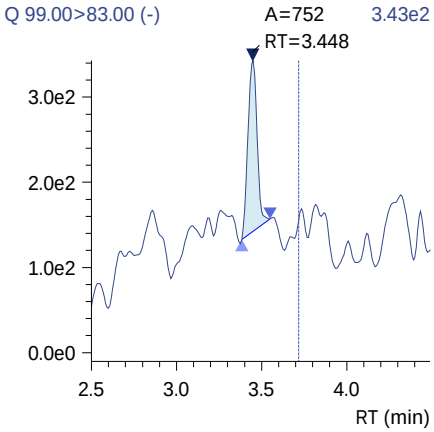
Printed at 1/31/2023 9:37:55 AM

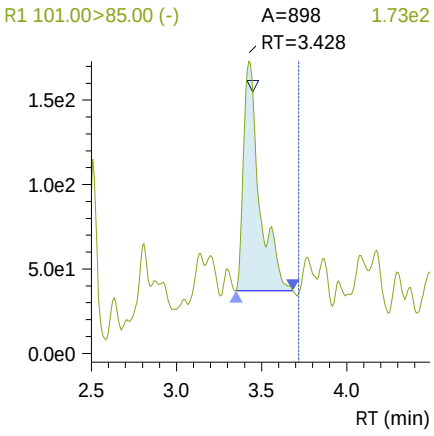
E2300079-006

Sample ID: E2300079-006
Date Acquired: 1/30/2023 3:06:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-039.lcd
Vial: 52 | Inj. Volume: 25.0000uL | Tray: 4

Perchlorate

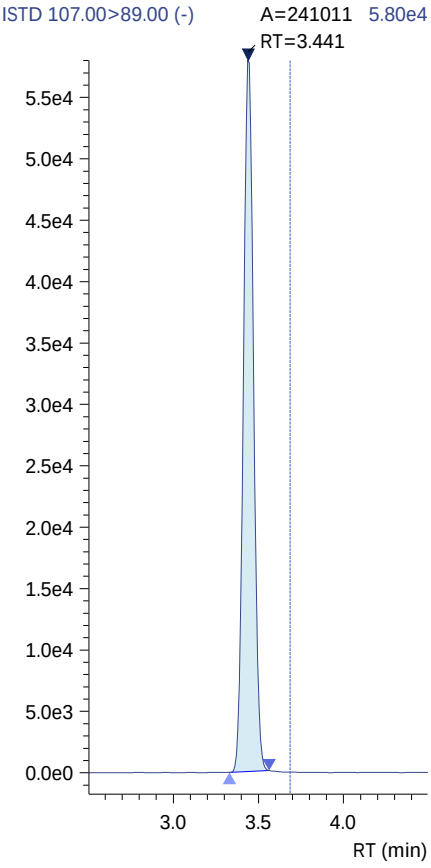
Conc 0.0199
R#1 119.43 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

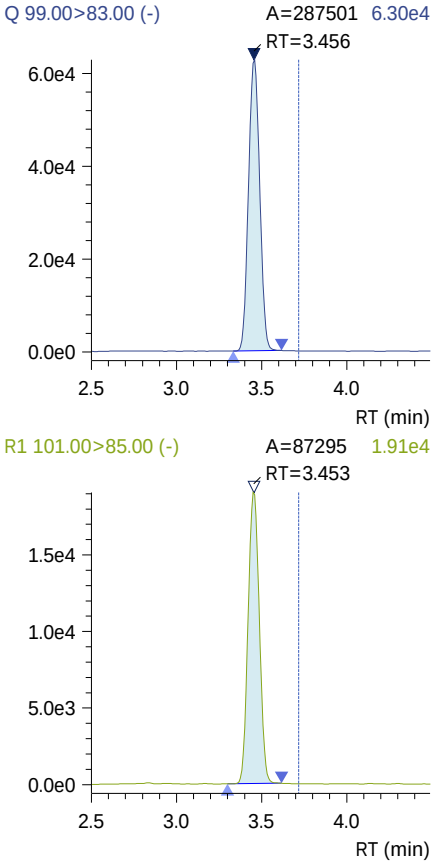
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 1/30/2023 3:52:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-047.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	287501	180587	10.1792	ng/mL	101.00 >85.00	30.36	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.452	180587	180587	1.0000	ng/mL	----	----	

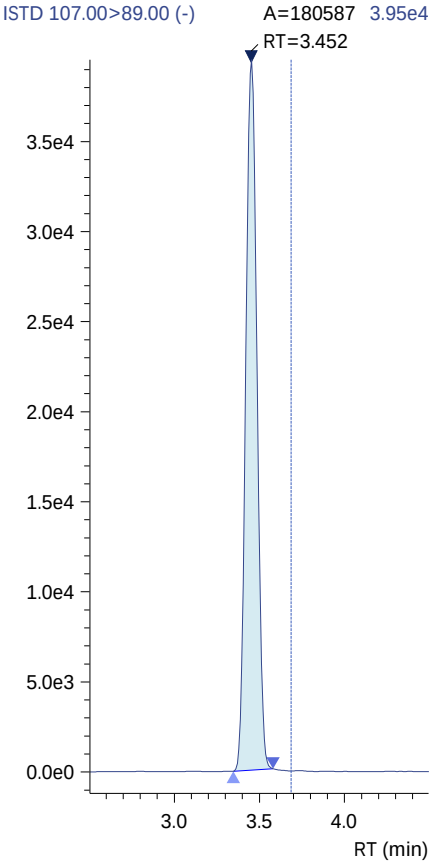
Perchlorate

Conc 10.1792
R#1 30.36 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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right solutions.
right partner.

WorkOrder: HS23011165

LHAAP 16 January 2023

Aptim Environmental & Infrastucture, Inc.

Vicki Graves
10333 Richmond Ave Ste 1030
Houston TX 77042

16-Feb-2023

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ALS Group USA, Corp
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HS23011165 LHAAP 16 January 2023 Final Rev1

ALS WO# HS23011165

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January 31, 2023

Vicki Graves
Aptim Environmental & Infrastucture, Inc.
10333 Richmond Ave
Ste 1030
Houston, TX 77042

Work Order: **HS23011165**

Laboratory Results for: **LHAAP 16 January 2023**

Dear Vicki Graves ,

ALS Environmental received 9 sample(s) on Jan 21, 2023 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: DANE.WACASEY
Dane J. Wacasey

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Work Order: HS23011165

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23011165-01	Trip Blank-2301	Water		20-Jan-2023 08:35	21-Jan-2023 09:25	☐
HS23011165-02	16WW38-230120	Water		20-Jan-2023 09:10	21-Jan-2023 09:25	☐
HS23011165-03	16WW38-230120-FD	Water		20-Jan-2023 09:10	21-Jan-2023 09:25	☐
HS23011165-04	16WW37-230120	Water		20-Jan-2023 10:00	21-Jan-2023 09:25	☐
HS23011165-05	16WW51-230120	Water		20-Jan-2023 11:05	21-Jan-2023 09:25	☐
HS23011165-06	16RW12-230120	Water		20-Jan-2023 12:00	21-Jan-2023 09:25	☐
HS23011165-07	16RW12-2301-FD	Water		20-Jan-2023 12:00	21-Jan-2023 09:25	☐
HS23011165-08	16WW22-230120	Water		20-Jan-2023 12:55	21-Jan-2023 09:25	☐
HS23011165-09	16WW56-230120	Water		20-Jan-2023 13:55	21-Jan-2023 09:25	☐

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc. **CASE NARRATIVE**
Project: LHAAP 16 January 2023
Work Order: HS23011165

Work Order Comments

- The report was revised February 1, 2023 in order to remove the case narrative comment referencing CO2 analysis.
- The analysis for Perchlorate was performed by ALS Houston Specialty Lab. The final report is appended.

GCMS Volatiles by Method SW8260

Batch ID: R426883

Sample ID: CCV

- 1,2,4-Trichlorobenzene, 2-Hexanone and Methylcyclohexane exceeded %D recovery limits for CCV. Samples are ND for these compounds.

Batch ID: R426583

Sample ID: 16WW38-230120 (HS23011165-02)

- Dilution required due to high concentrations of target analytes.

Sample ID: 16WW38-230120-FD (HS23011165-03)

- Dilution required due to high concentrations of target analytes.

Batch ID: R426481,R426682

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

Subcontracted by Method NA

Batch ID: R426969

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: Trip Blank-2301
Collection Date: 20-Jan-2023 08:35

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	25-Jan-2023 13:57
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	25-Jan-2023 13:57
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	25-Jan-2023 13:57
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	25-Jan-2023 13:57
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	25-Jan-2023 13:57
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	25-Jan-2023 13:57
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	25-Jan-2023 13:57
Surr: 1,2-Dichloroethane-d4	*97.1*			**0**	*81-118*	*%REC*	*1*	*25-Jan-2023 13:57*
Surr: 4-Bromofluorobenzene	*100*			**0**	*85-114*	*%REC*	*1*	*25-Jan-2023 13:57*
Surr: Dibromofluoromethane	*90.5*			**0**	*80-119*	*%REC*	*1*	*25-Jan-2023 13:57*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*25-Jan-2023 13:57*

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW38-230120
Collection Date: 20-Jan-2023 09:10

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	20	U	6.0	20	20	ug/L	20	26-Jan-2023 15:24
1,1-Dichloroethene	**19**	J	**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:24
1,2-Dichloroethane	20	U	4.0	20	20	ug/L	20	26-Jan-2023 15:24
cis-1,2-Dichloroethene	**460**		**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:24
Methylene chloride	20	U	8.0	20	40	ug/L	20	26-Jan-2023 15:24
Trichloroethene	**3,700**		**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:24
Vinyl chloride	**110**		**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:24
Surr: 1,2-Dichloroethane-d4	*99.4*			**0**	*81-118*	*%REC*	*20*	*26-Jan-2023 15:24*
Surr: 4-Bromofluorobenzene	*101*			**0**	*85-114*	*%REC*	*20*	*26-Jan-2023 15:24*
Surr: Dibromofluoromethane	*91.7*			**0**	*80-119*	*%REC*	*20*	*26-Jan-2023 15:24*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*20*	*26-Jan-2023 15:24*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW38-230120-FD
Collection Date: 20-Jan-2023 09:10

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	20	U	6.0	20	20	ug/L	20	26-Jan-2023 15:45
1,1-Dichloroethene	**14**	J	**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:45
1,2-Dichloroethane	20	U	4.0	20	20	ug/L	20	26-Jan-2023 15:45
cis-1,2-Dichloroethene	**390**		**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:45
Methylene chloride	20	U	8.0	20	40	ug/L	20	26-Jan-2023 15:45
Trichloroethene	**3,300**		**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:45
Vinyl chloride	**99**		**4.0**	**20**	**20**	**ug/L**	20	26-Jan-2023 15:45
Surr: 1,2-Dichloroethane-d4	*95.5*			**0**	*81-118*	*%REC*	*20*	*26-Jan-2023 15:45*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*20*	*26-Jan-2023 15:45*
Surr: Dibromofluoromethane	*85.9*			**0**	*80-119*	*%REC*	*20*	*26-Jan-2023 15:45*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*20*	*26-Jan-2023 15:45*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW37-230120
Collection Date: 20-Jan-2023 10:00

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	27-Jan-2023 15:33
1,1-Dichloroethene	**1.2**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 15:33
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 15:33
cis-1,2-Dichloroethene	**12**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 15:33
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	27-Jan-2023 15:33
Trichloroethene	**200**		**1.0**	**5.0**	**5.0**	**ug/L**	5	30-Jan-2023 16:59
Vinyl chloride	**7.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 15:33
Surr: 1,2-Dichloroethane-d4	*98.8*			**0**	*81-118*	*%REC*	*1*	*27-Jan-2023 15:33*
Surr: 1,2-Dichloroethane-d4	*97.4*			**0**	*81-118*	*%REC*	*5*	*30-Jan-2023 16:59*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*27-Jan-2023 15:33*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*5*	*30-Jan-2023 16:59*
Surr: Dibromofluoromethane	*90.4*			**0**	*80-119*	*%REC*	*1*	*27-Jan-2023 15:33*
Surr: Dibromofluoromethane	*89.2*			**0**	*80-119*	*%REC*	*5*	*30-Jan-2023 16:59*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*27-Jan-2023 15:33*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*5*	*30-Jan-2023 16:59*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW51-230120
Collection Date: 20-Jan-2023 11:05

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	27-Jan-2023 15:54
1,1-Dichloroethene	**9.5**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 15:54
1,2-Dichloroethane	**1.5**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 15:54
cis-1,2-Dichloroethene	**900**		**20**	**100**	**100**	**ug/L**	100	30-Jan-2023 17:20
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	27-Jan-2023 15:54
Trichloroethene	**5,900**		**20**	**100**	**100**	**ug/L**	100	30-Jan-2023 17:20
Vinyl chloride	**17**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 15:54
Surr: 1,2-Dichloroethane-d4	*98.4*			**0**	*81-118*	*%REC*	*1*	*27-Jan-2023 15:54*
Surr: 1,2-Dichloroethane-d4	*98.5*			**0**	*81-118*	*%REC*	*100*	*30-Jan-2023 17:20*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*27-Jan-2023 15:54*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*100*	*30-Jan-2023 17:20*
Surr: Dibromofluoromethane	*90.1*			**0**	*80-119*	*%REC*	*1*	*27-Jan-2023 15:54*
Surr: Dibromofluoromethane	*90.4*			**0**	*80-119*	*%REC*	*100*	*30-Jan-2023 17:20*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*27-Jan-2023 15:54*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*100*	*30-Jan-2023 17:20*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16RW12-230120
Collection Date: 20-Jan-2023 12:00

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	27-Jan-2023 16:15
1,1-Dichloroethene	**0.86**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:15
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 16:15
cis-1,2-Dichloroethene	**37**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:15
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	27-Jan-2023 16:15
Trichloroethene	**130**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:15
Vinyl chloride	**9.5**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:15
Surr: 1,2-Dichloroethane-d4	*98.6*			**0**	*81-118*	*%REC*	*1*	*27-Jan-2023 16:15*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*27-Jan-2023 16:15*
Surr: Dibromofluoromethane	*92.2*			**0**	*80-119*	*%REC*	*1*	*27-Jan-2023 16:15*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*27-Jan-2023 16:15*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16RW12-2301-FD
Collection Date: 20-Jan-2023 12:00

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	27-Jan-2023 16:36
1,1-Dichloroethene	**0.84**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:36
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 16:36
cis-1,2-Dichloroethene	**37**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:36
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	27-Jan-2023 16:36
Trichloroethene	**130**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:36
Vinyl chloride	**10**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:36
Surr: 1,2-Dichloroethane-d4	*100*			**0**	*81-118*	*%REC*	*1*	*27-Jan-2023 16:36*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*27-Jan-2023 16:36*
Surr: Dibromofluoromethane	*93.8*			**0**	*80-119*	*%REC*	*1*	*27-Jan-2023 16:36*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*27-Jan-2023 16:36*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW22-230120
Collection Date: 20-Jan-2023 12:55

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	27-Jan-2023 16:57
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 16:57
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 16:57
cis-1,2-Dichloroethene	**6.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:57
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	27-Jan-2023 16:57
Trichloroethene	**47**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:57
Vinyl chloride	**0.94**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 16:57
Surr: 1,2-Dichloroethane-d4	*102*			**0**	*81-118*	*%REC*	*1*	*27-Jan-2023 16:57*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*27-Jan-2023 16:57*
Surr: Dibromofluoromethane	*92.7*			**0**	*80-119*	*%REC*	*1*	*27-Jan-2023 16:57*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*27-Jan-2023 16:57*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW56-230120
Collection Date: 20-Jan-2023 13:55

ANALYTICAL REPORT
WorkOrder:HS23011165
Lab ID:HS23011165-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: FT
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	27-Jan-2023 17:18
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 17:18
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 17:18
cis-1,2-Dichloroethene	**1.4**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 17:18
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	27-Jan-2023 17:18
Trichloroethene	**27**		**0.20**	**1.0**	**1.0**	**ug/L**	1	27-Jan-2023 17:18
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	27-Jan-2023 17:18
Surr: 1,2-Dichloroethane-d4	*102*			**0**	*81-118*	*%REC*	*1*	*27-Jan-2023 17:18*
Surr: 4-Bromofluorobenzene	*101*			**0**	*85-114*	*%REC*	*1*	*27-Jan-2023 17:18*
Surr: Dibromofluoromethane	*95.0*			**0**	*80-119*	*%REC*	*1*	*27-Jan-2023 17:18*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*27-Jan-2023 17:18*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R426481 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23011165-01	Trip Blank-2301	20 Jan 2023 08:35			25 Jan 2023 13:57	1
Batch ID: R426583 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23011165-02	16WW38-230120	20 Jan 2023 09:10			26 Jan 2023 15:24	20
HS23011165-03	16WW38-230120-FD	20 Jan 2023 09:10			26 Jan 2023 15:45	20
Batch ID: R426682 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23011165-04	16WW37-230120	20 Jan 2023 10:00			27 Jan 2023 15:33	1
HS23011165-05	16WW51-230120	20 Jan 2023 11:05			27 Jan 2023 15:54	1
HS23011165-06	16RW12-230120	20 Jan 2023 12:00			27 Jan 2023 16:15	1
HS23011165-07	16RW12-2301-FD	20 Jan 2023 12:00			27 Jan 2023 16:36	1
HS23011165-08	16WW22-230120	20 Jan 2023 12:55			27 Jan 2023 16:57	1
HS23011165-09	16WW56-230120	20 Jan 2023 13:55			27 Jan 2023 17:18	1
Batch ID: R426883 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23011165-04	16WW37-230120	20 Jan 2023 10:00			30 Jan 2023 16:59	5
HS23011165-05	16WW51-230120	20 Jan 2023 11:05			30 Jan 2023 17:20	100
Batch ID: R426969 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23011165-02	16WW38-230120	20 Jan 2023 09:10			31 Jan 2023 15:57	1
HS23011165-03	16WW38-230120-FD	20 Jan 2023 09:10			31 Jan 2023 15:57	1
HS23011165-04	16WW37-230120	20 Jan 2023 10:00			31 Jan 2023 15:57	1
HS23011165-05	16WW51-230120	20 Jan 2023 11:05			31 Jan 2023 15:57	1
HS23011165-06	16RW12-230120	20 Jan 2023 12:00			31 Jan 2023 15:57	1
HS23011165-07	16RW12-2301-FD	20 Jan 2023 12:00			31 Jan 2023 15:57	1
HS23011165-08	16WW22-230120	20 Jan 2023 12:55			31 Jan 2023 15:57	1
HS23011165-09	16WW56-230120	20 Jan 2023 13:55			31 Jan 2023 15:57	1

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426481 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230125** Units: **ug/L** Analysis Date: **25-Jan-2023 09:24**
Client ID: Run ID: **VOA6_426481** SeqNo: **7087539** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*48.66*	*1.0*	*50*	*0*	*97.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.26*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*45.56*	*1.0*	*50*	*0*	*91.1*	*80 - 119*				
Surr: Toluene-d8	*52.59*	*1.0*	*50*	*0*	*105*	*89 - 112*				

LCS Sample ID: **VLCSW-230125** Units: **ug/L** Analysis Date: **25-Jan-2023 08:42**
Client ID: Run ID: **VOA6_426481** SeqNo: **7087538** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.25	1.0	20	0	96.3	80 - 119				
1,1-Dichloroethene	18.83	1.0	20	0	94.1	71 - 131				
1,2-Dichloroethane	20.09	1.0	20	0	100	73 - 128				
cis-1,2-Dichloroethene	17.55	1.0	20	0	87.8	78 - 123				
Methylene chloride	18.4	2.0	20	0	92.0	74 - 124				
Trichloroethene	20.24	1.0	20	0	101	79 - 123				
Vinyl chloride	18.47	1.0	20	0	92.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*57.18*	*1.0*	*50*	*0*	*114*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*53.58*	*1.0*	*50*	*0*	*107*	*85 - 114*				
Surr: Dibromofluoromethane	*50.07*	*1.0*	*50*	*0*	*100*	*80 - 119*				
Surr: Toluene-d8	*51.82*	*1.0*	*50*	*0*	*104*	*89 - 112*				

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426481 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23010982-02MS** Units: **ug/L** Analysis Date: **25-Jan-2023 10:27**
Client ID: Run ID: **VOA6_426481** SeqNo: **7087542** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1644	100	2000	0	82.2	80 - 119				
1,1-Dichloroethene	1637	100	2000	0	81.9	71 - 131				
1,2-Dichloroethane	1789	100	2000	0	89.4	73 - 128				
cis-1,2-Dichloroethene	1610	100	2000	145.3	73.2	78 - 123				S
Methylene chloride	1415	200	2000	0	70.7	74 - 124				S
Trichloroethene	5232	100	2000	3310	96.1	79 - 123				
Vinyl chloride	1548	100	2000	0	77.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*4875*	*100*	*5000*	*0*	*97.5*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*5159*	*100*	*5000*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*4446*	*100*	*5000*	*0*	*88.9*	*80 - 119*				
Surr: Toluene-d8	*5207*	*100*	*5000*	*0*	*104*	*89 - 112*				

MSD Sample ID: **HS23010982-02MSD** Units: **ug/L** Analysis Date: **25-Jan-2023 10:48**
Client ID: Run ID: **VOA6_426481** SeqNo: **7087543** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1568	100	2000	0	78.4	80 - 119	1644	4.72	20	S
1,1-Dichloroethene	1445	100	2000	0	72.3	71 - 131	1637	12.5	20	
1,2-Dichloroethane	1744	100	2000	0	87.2	73 - 128	1789	2.51	20	
cis-1,2-Dichloroethene	1504	100	2000	145.3	67.9	78 - 123	1610	6.8	20	S
Methylene chloride	1312	200	2000	0	65.6	74 - 124	1415	7.54	20	S
Trichloroethene	4875	100	2000	3310	78.3	79 - 123	5232	7.05	20	S
Vinyl chloride	1360	100	2000	0	68.0	58 - 137	1548	12.9	20	
Surr: 1,2-Dichloroethane-d4	*4839*	*100*	*5000*	*0*	*96.8*	*81 - 118*	*4875*	*0.755*	*20*	
Surr: 4-Bromofluorobenzene	*5099*	*100*	*5000*	*0*	*102*	*85 - 114*	*5159*	*1.18*	*20*	
Surr: Dibromofluoromethane	*4465*	*100*	*5000*	*0*	*89.3*	*80 - 119*	*4446*	*0.446*	*20*	
Surr: Toluene-d8	*5214*	*100*	*5000*	*0*	*104*	*89 - 112*	*5207*	*0.12*	*20*	

The following samples were analyzed in this batch: HS23011165-01

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426583 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230126** Units: **ug/L** Analysis Date: **26-Jan-2023 10:09**
Client ID: Run ID: **VOA6_426583** SeqNo: **7089740** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*49.8*	*1.0*	*50*	*0*	*99.6*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.71*	*1.0*	*50*	*0*	*99.4*	*85 - 114*				
Surr: Dibromofluoromethane	*45.67*	*1.0*	*50*	*0*	*91.3*	*80 - 119*				
Surr: Toluene-d8	*52.02*	*1.0*	*50*	*0*	*104*	*89 - 112*				

LCS Sample ID: **VLCSW-230126** Units: **ug/L** Analysis Date: **26-Jan-2023 09:27**
Client ID: Run ID: **VOA6_426583** SeqNo: **7089753** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	20.84	1.0	20	0	104	80 - 119				
1,1-Dichloroethene	20.3	1.0	20	0	102	71 - 131				
1,2-Dichloroethane	22.43	1.0	20	0	112	73 - 128				
cis-1,2-Dichloroethene	20.04	1.0	20	0	100	78 - 123				
Methylene chloride	19.73	2.0	20	0	98.7	74 - 124				
Trichloroethene	21.89	1.0	20	0	109	79 - 123				
Vinyl chloride	19.56	1.0	20	0	97.8	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53.42*	*1.0*	*50*	*0*	*107*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.37*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*48.58*	*1.0*	*50*	*0*	*97.2*	*80 - 119*				
Surr: Toluene-d8	*48.94*	*1.0*	*50*	*0*	*97.9*	*89 - 112*				

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426583 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23011136-04MS** Units: **ug/L** Analysis Date: **26-Jan-2023 10:51**
Client ID: Run ID: **VOA6_426583** SeqNo: **7089742** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	16.92	1.0	20	0	84.6	80 - 119				
1,1-Dichloroethene	16.95	1.0	20	0	84.8	71 - 131				
1,2-Dichloroethane	19.19	1.0	20	0	96.0	73 - 128				
cis-1,2-Dichloroethene	17.04	1.0	20	1.898	75.7	78 - 123				S
Methylene chloride	14.31	2.0	20	0	71.5	74 - 124				S
Trichloroethene	20.06	1.0	20	1.572	92.5	79 - 123				
Vinyl chloride	19.92	1.0	20	4.236	78.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*49.74*	*1.0*	*50*	*0*	*99.5*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.78*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*45.57*	*1.0*	*50*	*0*	*91.1*	*80 - 119*				
Surr: Toluene-d8	*52.55*	*1.0*	*50*	*0*	*105*	*89 - 112*				

MSD Sample ID: **HS23011136-04MSD** Units: **ug/L** Analysis Date: **26-Jan-2023 11:12**
Client ID: Run ID: **VOA6_426583** SeqNo: **7089743** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	16.46	1.0	20	0	82.3	80 - 119	16.92	2.78	20	
1,1-Dichloroethene	15.86	1.0	20	0	79.3	71 - 131	16.95	6.63	20	
1,2-Dichloroethane	17.84	1.0	20	0	89.2	73 - 128	19.19	7.31	20	
cis-1,2-Dichloroethene	16.53	1.0	20	1.898	73.1	78 - 123	17.04	3.05	20	S
Methylene chloride	13.89	2.0	20	0	69.5	74 - 124	14.31	2.96	20	S
Trichloroethene	18.87	1.0	20	1.572	86.5	79 - 123	20.06	6.15	20	
Vinyl chloride	18.64	1.0	20	4.236	72.0	58 - 137	19.92	6.66	20	
Surr: 1,2-Dichloroethane-d4	*49.79*	*1.0*	*50*	*0*	*99.6*	*81 - 118*	*49.74*	*0.0824*	*20*	
Surr: 4-Bromofluorobenzene	*51.93*	*1.0*	*50*	*0*	*104*	*85 - 114*	*51.78*	*0.303*	*20*	
Surr: Dibromofluoromethane	*45.8*	*1.0*	*50*	*0*	*91.6*	*80 - 119*	*45.57*	*0.51*	*20*	
Surr: Toluene-d8	*52.15*	*1.0*	*50*	*0*	*104*	*89 - 112*	*52.55*	*0.753*	*20*	

The following samples were analyzed in this batch: HS23011165-02 HS23011165-03

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426682 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230127** Units: **ug/L** Analysis Date: **27-Jan-2023 09:35**
Client ID: Run ID: **VOA6_426682** SeqNo: **7092070** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*50.56*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.69*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*46.1*	*1.0*	*50*	*0*	*92.2*	*80 - 119*				
Surr: Toluene-d8	*52.41*	*1.0*	*50*	*0*	*105*	*89 - 112*				

LCS Sample ID: **VLCSW-230127** Units: **ug/L** Analysis Date: **27-Jan-2023 08:53**
Client ID: Run ID: **VOA6_426682** SeqNo: **7092069** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	20.06	1.0	20	0	100	80 - 119				
1,1-Dichloroethene	20.45	1.0	20	0	102	71 - 131				
1,2-Dichloroethane	23.2	1.0	20	0	116	73 - 128				
cis-1,2-Dichloroethene	20.18	1.0	20	0	101	78 - 123				
Methylene chloride	20.06	2.0	20	0	100	74 - 124				
Trichloroethene	21.96	1.0	20	0	110	79 - 123				
Vinyl chloride	19.18	1.0	20	0	95.9	58 - 137				
Surr: 1,2-Dichloroethane-d4	*56.52*	*1.0*	*50*	*0*	*113*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.31*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*49.49*	*1.0*	*50*	*0*	*99.0*	*80 - 119*				
Surr: Toluene-d8	*49.59*	*1.0*	*50*	*0*	*99.2*	*89 - 112*				

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426682 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23011212-02MS** Units: **ug/L** Analysis Date: **27-Jan-2023 10:18**
Client ID: Run ID: **VOA6_426682** SeqNo: **7092072** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	16.61	1.0	20	0	83.0	80 - 119				
1,1-Dichloroethene	16.58	1.0	20	0	82.9	71 - 131				
1,2-Dichloroethane	18.99	1.0	20	0	95.0	73 - 128				
cis-1,2-Dichloroethene	15.79	1.0	20	0	79.0	78 - 123				
Methylene chloride	14.92	2.0	20	0	74.6	74 - 124				
Trichloroethene	18.29	1.0	20	0	91.5	79 - 123				
Vinyl chloride	15.27	1.0	20	0	76.3	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.98*	*1.0*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.03*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*46.29*	*1.0*	*50*	*0*	*92.6*	*80 - 119*				
Surr: Toluene-d8	*51.63*	*1.0*	*50*	*0*	*103*	*89 - 112*				

MSD Sample ID: **HS23011212-02MSD** Units: **ug/L** Analysis Date: **27-Jan-2023 10:39**
Client ID: Run ID: **VOA6_426682** SeqNo: **7092073** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	16.91	1.0	20	0	84.5	80 - 119	16.61	1.78	20	
1,1-Dichloroethene	15.46	1.0	20	0	77.3	71 - 131	16.58	7.03	20	
1,2-Dichloroethane	18.74	1.0	20	0	93.7	73 - 128	18.99	1.34	20	
cis-1,2-Dichloroethene	15.22	1.0	20	0	76.1	78 - 123	15.79	3.73	20	S
Methylene chloride	14.17	2.0	20	0	70.8	74 - 124	14.92	5.14	20	S
Trichloroethene	17.56	1.0	20	0	87.8	79 - 123	18.29	4.1	20	
Vinyl chloride	13.85	1.0	20	0	69.3	58 - 137	15.27	9.71	20	
Surr: 1,2-Dichloroethane-d4	*50.34*	*1.0*	*50*	*0*	*101*	*81 - 118*	*50.98*	*1.28*	*20*	
Surr: 4-Bromofluorobenzene	*51.8*	*1.0*	*50*	*0*	*104*	*85 - 114*	*52.03*	*0.44*	*20*	
Surr: Dibromofluoromethane	*45.62*	*1.0*	*50*	*0*	*91.2*	*80 - 119*	*46.29*	*1.45*	*20*	
Surr: Toluene-d8	*51.69*	*1.0*	*50*	*0*	*103*	*89 - 112*	*51.63*	*0.116*	*20*	

The following samples were analyzed in this batch: HS23011165-04 HS23011165-05 HS23011165-06 HS23011165-07 HS23011165-08 HS23011165-09

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426883 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230130** Units: **ug/L** Analysis Date: **30-Jan-2023 15:13**
Client ID: Run ID: **VOA6_426883** SeqNo: **7097074** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*49.13*	*1.0*	*50*	*0*	*98.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*45.82*	*1.0*	*50*	*0*	*91.6*	*80 - 119*				
Surr: Toluene-d8	*51.28*	*1.0*	*50*	*0*	*103*	*89 - 112*				

LCS Sample ID: **VLCSW-230130** Units: **ug/L** Analysis Date: **30-Jan-2023 14:31**
Client ID: Run ID: **VOA6_426883** SeqNo: **7097073** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	19.06	1.0	20	0	95.3	78 - 123				
Trichloroethene	20.56	1.0	20	0	103	79 - 123				
Surr: 1,2-Dichloroethane-d4	*50.87*	*1.0*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.86*	*1.0*	*50*	*0*	*99.7*	*85 - 114*				
Surr: Dibromofluoromethane	*46.3*	*1.0*	*50*	*0*	*92.6*	*80 - 119*				
Surr: Toluene-d8	*47.91*	*1.0*	*50*	*0*	*95.8*	*89 - 112*				

MS Sample ID: **HS23011273-02MS** Units: **ug/L** Analysis Date: **30-Jan-2023 15:56**
Client ID: Run ID: **VOA6_426883** SeqNo: **7097076** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	16.82	1.0	20	1.405	77.1	78 - 123				S
Trichloroethene	25.39	1.0	20	7.862	87.7	79 - 123				
Surr: 1,2-Dichloroethane-d4	*48.69*	*1.0*	*50*	*0*	*97.4*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*53.08*	*1.0*	*50*	*0*	*106*	*85 - 114*				
Surr: Dibromofluoromethane	*44.3*	*1.0*	*50*	*0*	*88.6*	*80 - 119*				
Surr: Toluene-d8	*52.01*	*1.0*	*50*	*0*	*104*	*89 - 112*				

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011165

QC BATCH REPORT

Batch ID: R426883 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23011273-02MSD** Units: **ug/L** Analysis Date: **30-Jan-2023 16:17**
Client ID: Run ID: **VOA6_426883** SeqNo: **7097077** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	16.43	1.0	20	1.405	75.1	78 - 123	16.82	2.32	20	S
Trichloroethene	24.75	1.0	20	7.862	84.5	79 - 123	25.39	2.55	20	
Surr: 1,2-Dichloroethane-d4	*48.27*	*1.0*	*50*	*0*	*96.5*	*81 - 118*	*48.69*	*0.869*	*20*	
Surr: 4-Bromofluorobenzene	*52.87*	*1.0*	*50*	*0*	*106*	*85 - 114*	*53.08*	*0.379*	*20*	
Surr: Dibromofluoromethane	*44.07*	*1.0*	*50*	*0*	*88.1*	*80 - 119*	*44.3*	*0.518*	*20*	
Surr: Toluene-d8	*52.14*	*1.0*	*50*	*0*	*104*	*89 - 112*	*52.01*	*0.244*	*20*	

The following samples were analyzed in this batch: HS23011165-04 HS23011165-05

ALS Houston, US Date: 31-Jan-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: **HS23011165**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

HS23011165

Aptim Environmental & Infrastucture, Inc.
LHAAP 16 January 2023

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 575-2190 ATTN: Dane Wacasey

Project: APTIM LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. 501032
Job: **LHAAP 16 January 2023**	
Prepared By: Scott Beesinger	P.O. Number

Field Sample I.D. / Time	Sample Matrix	Date /	MS / MSD	No. OF CONTAINERS	VOC by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions sulfate and nitrate by SW9056	CO2 by RSK 175	Perchlorate by SW 6850	Manganese by SW6020A				Remarks (Preservatives, etc.)	Lab I.D.#
Trip Blank - 2301/0835	TB	1-20-23		2	✓											
16WW38-230120/0910	GW	1-20-23		4	✓					✓						
16WW38-230120-FD/0910	GW	1-20-23	FD	4	✓					✓						
16WW37-230120/1005	GW	1-20-23	N	4	✓					✓						
16WW51-230120/1105	GW	1-20-23	N	4	✓					✓						
16RW12-230120/1200	GW	1-20-23	N	4	✓					✓						
16RW12-2301-FD/1200	GW	1-20-23	FD	4	✓					✓						
16WW22-230120/1255	GW	1-20-23	N	4	✓					✓						

Additional Remarks: Standard TAT on all parameters. Please email results to Vicki.Graves@aptim.com and invoices to fedinvoices@aptim.com

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
	1-21-23	1600		1/21/23	09:25						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks: 49228 1.5 31 C1-...

HS23011165

Aptim Environmental & Infrastucture, Inc.

LHAAP 16 January 2023

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 575-2190 ATTN: Dane Wacasey

Project: APTIM LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	**Project No.** 501032
Job: **LHAAP 16 January 2023**	
Prepared By: Scott Beesinger	**P.O. Number**

Field Sample I.D. / Time	Sample Matrix	Date /	MS / MSD	No. OF CONTAINERS	Analyses: VOC by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions sulfate and nitrate by SW9056	CO2 by RSK 175	Perchlorate by SW 6850	Manganese by SW6020A				Remarks (Preservatives, etc.)	Lab I.D.#
16WN56-230120/1355	GW	1-20-23		4	✓					✓						

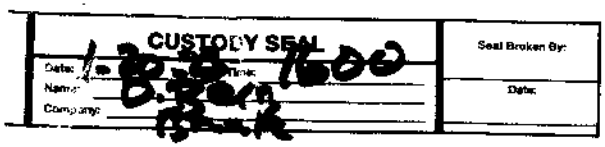
Additional Remarks: Standard TAT on all parameters. Please email results to Vicki.Graves@aptim.com and invoices to fedinvoices@aptim.com

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
	1-20-23	1600		1/21/23	09:25						

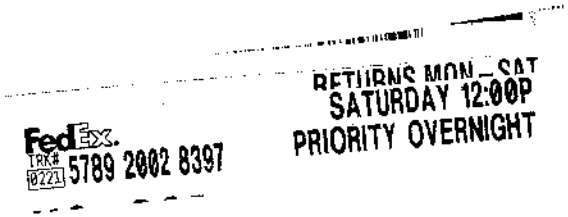
For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:


CUSTODY SEAL
Seal Broken By:
Date:
Time:
Name:
Company:
Date:

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


FedEx
TRK# 0221 5789 2002 8397
RETURNS MON - SAT
SATURDAY 12:00P
PRIORITY OVERNIGHT

January 31, 2023 Service Request No:E2300078

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23011165

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory January 24, 2023
For your reference, these analyses have been assigned our service request number **E2300078.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300078
Project:	HS23011165	**Date Received:**	01/24/23
Sample Matrix:	Ground 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 II. 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 01/24/23.

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:

EQ2300030: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300078
Project: HS23011165

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300078-001	16WW38-230120	1/20/2023	0910
E2300078-002	16WW38-230120-FD	1/20/2023	0910
E2300078-003	16WW37-230120	1/20/2023	1000
E2300078-004	16WW51-230120	1/20/2023	1105
E2300078-005	16RW12-230120	1/20/2023	1200
E2300078-006	16RW12-2301-FD	1/20/2023	1200
E2300078-007	16WW22-230120	1/20/2023	1255
E2300078-008	16WW56-230120	1/20/2023	1355

Service Request Summary

Folder #: **E2300078**
Client Name: ALS Environmental - US
Project Name: HS23011165
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 01/24/23
Internal Due Date: 2/6/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011165
EDD: EQUIS
EFWEDD_LHAAP

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300078-001	16WW38-230120	Ground Water	01/20/23 0910	**IV**
E2300078-002	16WW38-230120-FD	Ground Water	01/20/23 0910	**IV**
E2300078-003	16WW37-230120	Ground Water	01/20/23 1000	**IV**
E2300078-004	16WW51-230120	Ground Water	01/20/23 1105	**IV**
E2300078-005	16RW12-230120	Ground Water	01/20/23 1200	**IV**
E2300078-006	16RW12-2301-FD	Ground Water	01/20/23 1200	**IV**
E2300078-007	16WW22-230120	Ground Water	01/20/23 1255	**IV**
E2300078-008	16WW56-230120	Ground Water	01/20/23 1355	**IV**

Service Request Summary

Folder #: **E2300078**
Client Name: ALS Environmental - US
Project Name: HS23011165
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 01/24/23
Internal Due Date: 2/6/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011165
EDD: EQUIS
EFWEDD_LHAAP

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	8	IV Due 2/13

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
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

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

Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 20823

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084 **Phone:** +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23011165
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23011165-02**	**16WW38-230120**	**Water**	**20 Jan 2023 09:10**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
2.	**HS23011165-03**	**16WW38-230120-FD**	**Water**	**20 Jan 2023 09:10**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
3.	**HS23011165-04**	**16WW37-230120**	**Water**	**20 Jan 2023 10:00**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
4.	**HS23011165-05**	**16WW51-230120**	**Water**	**20 Jan 2023 11:05**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
5.	**HS23011165-06**	**16RW12-230120**	**Water**	**20 Jan 2023 12:00**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
6.	**HS23011165-07**	**16RW12-2301-FD**	**Water**	**20 Jan 2023 12:00**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
7.	**HS23011165-08**	**16WW22-230120**	**Water**	**20 Jan 2023 12:55**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
8.	**HS23011165-09**	**16WW56-230120**	**Water**	**20 Jan 2023 13:55**

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **20823**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: IONICS Date/Time: 1-24-23 1700

Cooler ID(s): Temperature(s):

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID IR31

Date/Time Received: 1-24-23 Initials: CG Date/Time Logged in: 1-24-23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No
   Were they intact? ○ Yes ○ No ☒ N/A
   Were they signed and dated? ○ Yes ○ No ☒ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		1-24-23	1700	CG	3.7	☑
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 713 266 1599
F: +1 713 266 1599
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 HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 413591 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/26/23 15:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300067-001	130_011723	.01	6850/ClO4 DOD			Water	10mL	
2	E2300067-002	17WW03_011723	.01	6850/ClO4 DOD			Water	10mL	
3	E2300067-003	17WW03_011723_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2300067-004	17WW01_011723	.01	6850/ClO4 DOD			Water	10mL	
5	E2300067-005	17WW02_011723	.01	6850/ClO4 DOD			Water	10mL	
6	E2300067-006	17WW06_011723	.01	6850/ClO4 DOD			Water	10mL	
7	E2300068-005	RSA-135H-OVB-02	.01	6850/ClO4 DOD			Water	10mL	
8	E2300068-006	RSA-135H-OVB-03	.01	6850/ClO4 DOD			Water	10mL	
9	E2300068-007	RSA-135H-OVB-04	.01	6850/ClO4 DOD			Water	10mL	
10	E2300068-008	RSA-135H-OVB-05	.01	6850/ClO4 DOD			Water	10mL	
11	E2300068-009	RSA-FB-02-230123	.01	6850/ClO4 DOD			Water	10mL	
12	E2300068-010	RSA-EB-02-230123	.01	6850/ClO4 DOD			Water	10mL	
13	E2300078-001	16WW38-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300078-002	16WW38-230120-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300078-003	16WW37-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300078-004	16WW51-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300078-005	16RW12-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300078-006	16RW12-2301-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2300078-007	16WW22-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
20	E2300078-008	16WW56-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
21	EQ2300030-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300030-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2300030-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2300030-04	17WW01_011723 MS	.01	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300030-05	17WW01_011723 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 226778 Logbook Ref: Perchlorate Internal Standard Expires On: 05/31/2023

E2300068-005	100.00µL	E2300068-006	100.00µL	E2300068-007	100.00µL	E2300068-008	100.00µL	E2300068-009	100.00µL	E2300068-010	100.00µL
EQ2300030-01	100.00µL	EQ2300030-02	100.00µL	EQ2300030-03	100.00µL	EQ2300030-04	100.00µL	EQ2300030-05	100.00µL		

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300030-02	1.00µL	EQ2300030-03	1.00µL	EQ2300030-04	1.00µL	EQ2300030-05	1.00µL

Preparation Information Benchsheet

Prep Run#: 413591 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/26/23 15:25

Preparation Materials

Water HPLC Grade	01/04/2023 Water (226857)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Pipette Tips 50-1000 uL	6850 Pipette Tips (221929)	6850 Luer-Lok Syringes	Luer-Lok Syringes (221305)		

Preparation Steps

Step: Preparation
Started: 1/26/23 15:25
Finished: 1/27/23 16:11
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 01/26/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 0910
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW38-230120	**Units:**	µg/L
Lab Code:	E2300078-001	**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	**2.14**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 09:50	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 0910
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW38-230120-FD	**Units:**	µg/L
Lab Code:	E2300078-002	**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	**1.38**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 09:56	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1000
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW37-230120	**Units:**	µg/L
Lab Code:	E2300078-003	**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	**11.3**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:01	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1105
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW51-230120	**Units:**	µg/L
Lab Code:	E2300078-004	**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	ND	U	0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:07	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1200
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16RW12-230120	**Units:**	µg/L
Lab Code:	E2300078-005	**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	**0.0598**	J	0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:56	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1200
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16RW12-2301-FD	**Units:**	µg/L
Lab Code:	E2300078-006	**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	**0.0597**	J	0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:19	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1255
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW22-230120	**Units:**	µg/L
Lab Code:	E2300078-007	**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	**0.488**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:24	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1355
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW56-230120	**Units:**	µg/L
Lab Code:	E2300078-008	**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	**0.167**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:30	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300030-01	**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	1/26/23	1/27/23 15:12	413591	792859	

Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165
Sample Matrix: Ground Water

Service Request: E2300078
Date Analyzed: 1/27/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 413591

	Lab Control Sample EQ2300030-02			Duplicate Lab Control Sample EQ2300030-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0853	0.100	85	0.0873	0.100	87	84 - 119	2	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300030-02	**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	**0.0853**	J	0.100	0.0500	0.0250	1	1/26/23	1/27/23 15:23	413591	792859	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300030-03	**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	**0.0873**	J	0.100	0.0500	0.0250	1	1/26/23	1/27/23 15:37	413591	792859	

HS23011165-MSVOA-SW8260

ALS WO# HS23011165

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-01				Collected	Received	Matrix	Basis
Trip Blank-2301				01/20/23 08:35	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/25/23 13:57	VOA6_426481	X012519
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 13:57	VOA6_426481	X012519
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 13:57	VOA6_426481	X012519
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 13:57	VOA6_426481	X012519
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/25/23 13:57	VOA6_426481	X012519
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 13:57	VOA6_426481	X012519
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 13:57	VOA6_426481	X012519

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-02	Collected	Received	Matrix	Basis
16WW38-230120	01/20/23 09:10	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	20	U	6.0	20	20	20	01/26/23 15:24	VOA6_426583	X012621
1,1-Dichloroethene	ug/L	19	J	4.0	20	20	20	01/26/23 15:24	VOA6_426583	X012621
1,2-Dichloroethane	ug/L	20	U	4.0	20	20	20	01/26/23 15:24	VOA6_426583	X012621
cis-1,2-Dichloroethene	ug/L	460		4.0	20	20	20	01/26/23 15:24	VOA6_426583	X012621
Methylene chloride	ug/L	40	U	8.0	40	40	20	01/26/23 15:24	VOA6_426583	X012621
Trichloroethene	ug/L	3,700		4.0	20	20	20	01/26/23 15:24	VOA6_426583	X012621
Vinyl chloride	ug/L	110		4.0	20	20	20	01/26/23 15:24	VOA6_426583	X012621

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-03		Collected	Received	Matrix	Basis
16WW38-230120-FD		01/20/23 09:10	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	20	U	6.0	20	20	20	01/26/23 15:45	VOA6_426583	X012622
1,1-Dichloroethene	ug/L	14	J	4.0	20	20	20	01/26/23 15:45	VOA6_426583	X012622
1,2-Dichloroethane	ug/L	20	U	4.0	20	20	20	01/26/23 15:45	VOA6_426583	X012622
cis-1,2-Dichloroethene	ug/L	390		4.0	20	20	20	01/26/23 15:45	VOA6_426583	X012622
Methylene chloride	ug/L	40	U	8.0	40	40	20	01/26/23 15:45	VOA6_426583	X012622
Trichloroethene	ug/L	3,300		4.0	20	20	20	01/26/23 15:45	VOA6_426583	X012622
Vinyl chloride	ug/L	99		4.0	20	20	20	01/26/23 15:45	VOA6_426583	X012622

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-04	Collected	Received	Matrix	Basis
16WW37-230120	01/20/23 10:00	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/27/23 15:33	VOA6_426682	X012723
1,1-Dichloroethene	ug/L	1.2		0.20	1.0	1.0	1	01/27/23 15:33	VOA6_426682	X012723
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 15:33	VOA6_426682	X012723
cis-1,2-Dichloroethene	ug/L	12		0.20	1.0	1.0	1	01/27/23 15:33	VOA6_426682	X012723
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/27/23 15:33	VOA6_426682	X012723
Trichloroethene	ug/L	200		1.0	5.0	5.0	5	01/30/23 16:59	VOA6_426883	X013012
Vinyl chloride	ug/L	7.1		0.20	1.0	1.0	1	01/27/23 15:33	VOA6_426682	X012723

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-05	Collected	Received	Matrix	Basis
16WW51-230120	01/20/23 11:05	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/27/23 15:54	VOA6_426682	X012724
1,1-Dichloroethene	ug/L	9.5		0.20	1.0	1.0	1	01/27/23 15:54	VOA6_426682	X012724
1,2-Dichloroethane	ug/L	1.5		0.20	1.0	1.0	1	01/27/23 15:54	VOA6_426682	X012724
cis-1,2-Dichloroethene	ug/L	900		20	100	100	100	01/30/23 17:20	VOA6_426883	X013013
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/27/23 15:54	VOA6_426682	X012724
Trichloroethene	ug/L	5,900		20	100	100	100	01/30/23 17:20	VOA6_426883	X013013
Vinyl chloride	ug/L	17		0.20	1.0	1.0	1	01/27/23 15:54	VOA6_426682	X012724

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-06		Collected	Received	Matrix	Basis
16RW12-230120		01/20/23 12:00	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/27/23 16:15	VOA6_426682	X012725
1,1-Dichloroethene	ug/L	0.86	J	0.20	1.0	1.0	1	01/27/23 16:15	VOA6_426682	X012725
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 16:15	VOA6_426682	X012725
cis-1,2-Dichloroethene	ug/L	37		0.20	1.0	1.0	1	01/27/23 16:15	VOA6_426682	X012725
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/27/23 16:15	VOA6_426682	X012725
Trichloroethene	ug/L	130		0.20	1.0	1.0	1	01/27/23 16:15	VOA6_426682	X012725
Vinyl chloride	ug/L	9.5		0.20	1.0	1.0	1	01/27/23 16:15	VOA6_426682	X012725

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-07		Collected	Received	Matrix	Basis
16RW12-2301-FD		01/20/23 12:00	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/27/23 16:36	VOA6_426682	X012726
1,1-Dichloroethene	ug/L	0.84	J	0.20	1.0	1.0	1	01/27/23 16:36	VOA6_426682	X012726
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 16:36	VOA6_426682	X012726
cis-1,2-Dichloroethene	ug/L	37		0.20	1.0	1.0	1	01/27/23 16:36	VOA6_426682	X012726
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/27/23 16:36	VOA6_426682	X012726
Trichloroethene	ug/L	130		0.20	1.0	1.0	1	01/27/23 16:36	VOA6_426682	X012726
Vinyl chloride	ug/L	10		0.20	1.0	1.0	1	01/27/23 16:36	VOA6_426682	X012726

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-08				Collected	Received	Matrix	Basis
16WW22-230120				01/20/23 12:55	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/27/23 16:57	VOA6_426682	X012727
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 16:57	VOA6_426682	X012727
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 16:57	VOA6_426682	X012727
cis-1,2-Dichloroethene	ug/L	6.7		0.20	1.0	1.0	1	01/27/23 16:57	VOA6_426682	X012727
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/27/23 16:57	VOA6_426682	X012727
Trichloroethene	ug/L	47		0.20	1.0	1.0	1	01/27/23 16:57	VOA6_426682	X012727
Vinyl chloride	ug/L	0.94	J	0.20	1.0	1.0	1	01/27/23 16:57	VOA6_426682	X012727

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

HS23011165-09	Collected	Received	Matrix	Basis
16WW56-230120	01/20/23 13:55	01/21/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/27/23 17:18	VOA6_426682	X012728
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 17:18	VOA6_426682	X012728
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 17:18	VOA6_426682	X012728
cis-1,2-Dichloroethene	ug/L	1.4		0.20	1.0	1.0	1	01/27/23 17:18	VOA6_426682	X012728
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/27/23 17:18	VOA6_426682	X012728
Trichloroethene	ug/L	27		0.20	1.0	1.0	1	01/27/23 17:18	VOA6_426682	X012728
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 17:18	VOA6_426682	X012728

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VBLKW-230125	Collected	Received	Matrix	Basis
VBLKW-230125	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/25/23 09:24	VOA6_426481	X012506
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 09:24	VOA6_426481	X012506
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 09:24	VOA6_426481	X012506
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 09:24	VOA6_426481	X012506
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/25/23 09:24	VOA6_426481	X012506
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 09:24	VOA6_426481	X012506
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/25/23 09:24	VOA6_426481	X012506

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VBLKW-230126	Collected	Received	Matrix	Basis
VBLKW-230126	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/26/23 10:09	VOA6_426583	X012606
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/26/23 10:09	VOA6_426583	X012606
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/26/23 10:09	VOA6_426583	X012606
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/26/23 10:09	VOA6_426583	X012606
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/26/23 10:09	VOA6_426583	X012606
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/26/23 10:09	VOA6_426583	X012606
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/26/23 10:09	VOA6_426583	X012606

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VBLKW-230127	Collected	Received	Matrix	Basis
VBLKW-230127	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/27/23 09:35	VOA6_426682	X012706
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 09:35	VOA6_426682	X012706
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 09:35	VOA6_426682	X012706
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 09:35	VOA6_426682	X012706
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/27/23 09:35	VOA6_426682	X012706
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 09:35	VOA6_426682	X012706
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/27/23 09:35	VOA6_426682	X012706

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VBLKW-230130	Collected	Received	Matrix	Basis
VBLKW-230130	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/30/23 15:13	VOA6_426883	X013007
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/30/23 15:13	VOA6_426883	X013007

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Form 2

System Monitoring Compound Recovery

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426481

Volatiles by EPA 8260

CCV	Analyzed 01/25/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	52.7	50	105	80-120	
4-Bromofluorobenzene	52.42	50	105	80-120	
Dibromofluoromethane	48.88	50	97.8	80-120	
Toluene-d8	49.61	50	99.2	80-120	

VLCSW-230125	Analyzed 01/25/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	57.18	50	114	81-118	
4-Bromofluorobenzene	53.58	50	107	85-114	
Dibromofluoromethane	50.07	50	100	80-119	
Toluene-d8	51.82	50	104	89-112	

VBLKW-230125	Analyzed 01/25/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.66	50	97.3	81-118	
4-Bromofluorobenzene	50.26	50	101	85-114	
Dibromofluoromethane	45.56	50	91.1	80-119	
Toluene-d8	52.59	50	105	89-112	

HS23010982-02MS	Analyzed 01/25/23		Conc Units µg/L		DF 100
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	4875	5000	97.5	81-118	
4-Bromofluorobenzene	5159	5000	103	85-114	
Dibromofluoromethane	4446	5000	88.9	80-119	
Toluene-d8	5207	5000	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426481

Volatiles by EPA 8260

HS23010982-02MSD	Analyzed 01/25/23		Conc Units µg/L		DF 100
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	4839	5000	96.8	81-118	
4-Bromofluorobenzene	5099	5000	102	85-114	
Dibromofluoromethane	4465	5000	89.3	80-119	
Toluene-d8	5214	5000	104	89-112	

HS23011165-01	Analyzed 01/25/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	97.1	81-118	
4-Bromofluorobenzene	50	50	100	85-114	
Dibromofluoromethane	45	50	90.5	80-119	
Toluene-d8	52	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426583

Volatiles by EPA 8260

CCV	Analyzed 01/26/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.59	50	101	80-120	
4-Bromofluorobenzene	50.99	50	102	80-120	
Dibromofluoromethane	46.46	50	92.9	80-120	
Toluene-d8	47.95	50	95.9	80-120	

VLCSW-230126	Analyzed 01/26/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	53.42	50	107	81-118	
4-Bromofluorobenzene	51.37	50	103	85-114	
Dibromofluoromethane	48.58	50	97.2	80-119	
Toluene-d8	48.94	50	97.9	89-112	

VBLKW-230126	Analyzed 01/26/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.8	50	99.6	81-118	
4-Bromofluorobenzene	49.71	50	99.4	85-114	
Dibromofluoromethane	45.67	50	91.3	80-119	
Toluene-d8	52.02	50	104	89-112	

HS23011136-04MS	Analyzed 01/26/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.74	50	99.5	81-118	
4-Bromofluorobenzene	51.78	50	104	85-114	
Dibromofluoromethane	45.57	50	91.1	80-119	
Toluene-d8	52.55	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426583

Volatiles by EPA 8260

HS23011136-04MSD	Analyzed 01/26/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.79	50	99.6	81-118	
4-Bromofluorobenzene	51.93	50	104	85-114	
Dibromofluoromethane	45.8	50	91.6	80-119	
Toluene-d8	52.15	50	104	89-112	

HS23011165-02	Analyzed 01/26/23		Conc Units µg/L		DF 20
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	990	1000	99.4	81-118	
4-Bromofluorobenzene	1,000	1000	101	85-114	
Dibromofluoromethane	920	1000	91.7	80-119	
Toluene-d8	1,100	1000	105	89-112	

HS23011165-03	Analyzed 01/26/23		Conc Units µg/L		DF 20
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	960	1000	95.5	81-118	
4-Bromofluorobenzene	1,000	1000	102	85-114	
Dibromofluoromethane	860	1000	85.9	80-119	
Toluene-d8	1,000	1000	103	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426682

Volatiles by EPA 8260

CCV	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	54.07	50	108	80-120	
4-Bromofluorobenzene	51.15	50	102	80-120	
Dibromofluoromethane	49.58	50	99.2	80-120	
Toluene-d8	48.68	50	97.4	80-120	

VLCSW-230127	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	56.52	50	113	81-118	
4-Bromofluorobenzene	51.31	50	103	85-114	
Dibromofluoromethane	49.49	50	99.0	80-119	
Toluene-d8	49.59	50	99.2	89-112	

VBLKW-230127	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.56	50	101	81-118	
4-Bromofluorobenzene	51.69	50	103	85-114	
Dibromofluoromethane	46.1	50	92.2	80-119	
Toluene-d8	52.41	50	105	89-112	

HS23011212-02MS	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.98	50	102	81-118	
4-Bromofluorobenzene	52.03	50	104	85-114	
Dibromofluoromethane	46.29	50	92.6	80-119	
Toluene-d8	51.63	50	103	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426682

Volatiles by EPA 8260

HS23011212-02MSD	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.34	50	101	81-118	
4-Bromofluorobenzene	51.8	50	104	85-114	
Dibromofluoromethane	45.62	50	91.2	80-119	
Toluene-d8	51.69	50	103	89-112	

HS23011165-04	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	98.8	81-118	
4-Bromofluorobenzene	52	50	103	85-114	
Dibromofluoromethane	45	50	90.4	80-119	
Toluene-d8	52	50	105	89-112	

HS23011165-05	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	98.4	81-118	
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	45	50	90.1	80-119	
Toluene-d8	52	50	105	89-112	

HS23011165-06	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	98.6	81-118	
4-Bromofluorobenzene	51	50	103	85-114	
Dibromofluoromethane	46	50	92.2	80-119	
Toluene-d8	53	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426682

Volatiles by EPA 8260

HS23011165-07	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50	50	100	81-118	
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	47	50	93.8	80-119	
Toluene-d8	52	50	104	89-112	

HS23011165-08	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	51	50	102	81-118	
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	46	50	92.7	80-119	
Toluene-d8	52	50	105	89-112	

HS23011165-09	Analyzed 01/27/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	51	50	102	81-118	
4-Bromofluorobenzene	51	50	101	85-114	
Dibromofluoromethane	48	50	95.0	80-119	
Toluene-d8	52	50	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426883

Volatiles by EPA 8260

CCV	Analyzed 01/30/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	51.02	50	102	80-120	
4-Bromofluorobenzene	52.09	50	104	80-120	
Dibromofluoromethane	46.47	50	92.9	80-120	
Toluene-d8	49.31	50	98.6	80-120	

CCB	Analyzed 01/30/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.15	50	98.3	80-120	
4-Bromofluorobenzene	52.38	50	105	80-120	
Dibromofluoromethane	45.65	50	91.3	80-120	
Toluene-d8	53	50	106	80-120	

VLCSW-230130	Analyzed 01/30/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.87	50	102	81-118	
4-Bromofluorobenzene	49.86	50	99.7	85-114	
Dibromofluoromethane	46.3	50	92.6	80-119	
Toluene-d8	47.91	50	95.8	89-112	

VBLKW-230130	Analyzed 01/30/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.13	50	98.3	81-118	
4-Bromofluorobenzene	52	50	104	85-114	
Dibromofluoromethane	45.82	50	91.6	80-119	
Toluene-d8	51.28	50	103	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426883

Volatiles by EPA 8260

HS23011273-02MS	Analyzed 01/30/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.69	50	97.4	81-118	
4-Bromofluorobenzene	53.08	50	106	85-114	
Dibromofluoromethane	44.3	50	88.6	80-119	
Toluene-d8	52.01	50	104	89-112	

HS23011273-02MSD	Analyzed 01/30/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.27	50	96.5	81-118	
4-Bromofluorobenzene	52.87	50	106	85-114	
Dibromofluoromethane	44.07	50	88.1	80-119	
Toluene-d8	52.14	50	104	89-112	

HS23011165-04	Analyzed 01/30/23		Conc Units µg/L		DF 5
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	240	250	97.4	81-118	
4-Bromofluorobenzene	260	250	103	85-114	
Dibromofluoromethane	220	250	89.2	80-119	
Toluene-d8	260	250	105	89-112	

HS23011165-05	Analyzed 01/30/23		Conc Units µg/L		DF 100
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	4,900	5000	98.5	81-118	
4-Bromofluorobenzene	5,100	5000	102	85-114	
Dibromofluoromethane	4,500	5000	90.4	80-119	
Toluene-d8	5,300	5000	106	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

		HS23010982-02		HS23010982-02MS				HS23010982-02MSD						
Sample Matrix	Aqueous	**Run Date**	01/25/23	01/25/23				01/25/23						
Units	µg/L	**Run Time**	10:06	10:27				10:48						
		Data File	X012508.D	X012509.D				X012510.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	100	0	1644	2000	82		1568	2000	78	*	20	4.70	
1,1-Dichloroethene	71-131	100	0	1637	2000	82		1445	2000	72		20	12.5	
1,2-Dichloroethane	73-128	100	0	1789	2000	89		1744	2000	87		20	2.50	
cis-1,2-Dichloroethene	78-123	100	145.3	1610	2000	73	*	1504	2000	68	*	20	6.80	
Methylene chloride	74-124	100	0	1415	2000	71	*	1312	2000	66	*	20	7.50	
Trichloroethene	79-123	100	3310	5232	2000	96		4875	2000	78	*	20	7.10	
Vinyl chloride	58-137	100	0	1548	2000	77		1360	2000	68		20	12.9	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

		HS23011136-04		HS23011136-04MS				HS23011136-04MSD						
Sample Matrix	Aqueous	**Run Date**	01/26/23	01/26/23				01/26/23						
Units	µg/L	**Run Time**	10:30	10:51				11:12						
		Data File	X012607.D	X012608.D				X012609.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1	0	16.92	20.00	85		16.46	20.00	82		20	2.80	
1,1-Dichloroethene	71-131	1	0	16.95	20.00	85		15.86	20.00	79		20	6.60	
1,2-Dichloroethane	73-128	1	0	19.19	20.00	96		17.84	20.00	89		20	7.30	
cis-1,2-Dichloroethene	78-123	1	1.898	17.04	20.00	76	*	16.53	20.00	73	*	20	3.00	
Methylene chloride	74-124	1	0	14.31	20.00	72	*	13.89	20.00	70	*	20	3.00	
Trichloroethene	79-123	1	1.572	20.06	20.00	93		18.87	20.00	87		20	6.10	
Vinyl chloride	58-137	1	4.236	19.92	20.00	78		18.64	20.00	72		20	6.70	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

		HS23011212-02		HS23011212-02MS				HS23011212-02MSD						
Sample Matrix	Aqueous	**Run Date**	01/27/23	01/27/23				01/27/23						
Units	µg/L	**Run Time**	09:56	10:18				10:39						
		Data File	X012707.D	X012708.D				X012709.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1	0	16.61	20.00	83		16.91	20.00	85		20	1.80	
1,1-Dichloroethene	71-131	1	0	16.58	20.00	83		15.46	20.00	77		20	7.00	
1,2-Dichloroethane	73-128	1	0	18.99	20.00	95		18.74	20.00	94		20	1.30	
cis-1,2-Dichloroethene	78-123	1	0	15.79	20.00	79		15.22	20.00	76	*	20	3.70	
Methylene chloride	74-124	1	0	14.92	20.00	75		14.17	20.00	71	*	20	5.10	
Trichloroethene	79-123	1	0	18.29	20.00	92		17.56	20.00	88		20	4.10	
Vinyl chloride	58-137	1	0	15.27	20.00	76		13.85	20.00	69		20	9.70	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

		HS23011273-02		HS23011273-02MS				HS23011273-02MSD						
Sample Matrix	Aqueous	**Run Date**	01/30/23	01/30/23				01/30/23						
Units	µg/L	**Run Time**	15:34	15:56				16:17						
		Data File	X013008.D	X013009.D				X013010.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
cis-1,2-Dichloroethene	78-123	1	1.405	16.82	20.00	77	*	16.43	20.00	75	*	20	2.30	
Trichloroethene	79-123	1	7.862	25.39	20.00	88		24.75	20.00	85		20	2.50	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VOA6_426481		QC ID	VLCSW-230125			
QC Matrix Aqueous	Units	Run Date	01/25/23			
	ug/L	Run Time	08:42			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	19.25	96		
1,1-Dichloroethene	71-131	20	18.83	94		
1,2-Dichloroethane	73-128	20	20.09	100		
1,2-Dichloroethane-d4	81-118	50	57.18	114		
4-Bromofluorobenzene	85-114	50	53.58	107		
cis-1,2-Dichloroethene	78-123	20	17.55	88		
Dibromofluoromethane	80-119	50	50.07	100		
Methylene chloride	74-124	20	18.4	92		
Toluene-d8	89-112	50	51.82	104		
Trichloroethene	79-123	20	20.24	101		
Vinyl chloride	58-137	20	18.47	92		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VOA6_426583		QC ID	VLCSW-230126			
QC Matrix Aqueous	Units	Run Date	01/26/23			
	ug/L	Run Time	09:27			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	20.84	104		
1,1-Dichloroethene	71-131	20	20.3	102		
1,2-Dichloroethane	73-128	20	22.43	112		
1,2-Dichloroethane-d4	81-118	50	53.42	107		
4-Bromofluorobenzene	85-114	50	51.37	103		
cis-1,2-Dichloroethene	78-123	20	20.04	100		
Dibromofluoromethane	80-119	50	48.58	97		
Methylene chloride	74-124	20	19.73	99		
Toluene-d8	89-112	50	48.94	98		
Trichloroethene	79-123	20	21.89	109		
Vinyl chloride	58-137	20	19.56	98		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VOA6_426682		QC ID	VLCSW-230127			
QC Matrix Aqueous	Units	Run Date	01/27/23			
	ug/L	Run Time	08:53			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	20.06	100		
1,1-Dichloroethene	71-131	20	20.45	102		
1,2-Dichloroethane	73-128	20	23.2	116		
1,2-Dichloroethane-d4	81-118	50	56.52	113		
4-Bromofluorobenzene	85-114	50	51.31	103		
cis-1,2-Dichloroethene	78-123	20	20.18	101		
Dibromofluoromethane	80-119	50	49.49	99		
Methylene chloride	74-124	20	20.06	100		
Toluene-d8	89-112	50	49.59	99		
Trichloroethene	79-123	20	21.96	110		
Vinyl chloride	58-137	20	19.18	96		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

VOA6_426883		QC ID	VLCSW-230130			
QC Matrix Aqueous	Units %REC	Run Date Run Time	01/30/23 14:31			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,2-Dichloroethane-d4	81-118	50	50.87	102		
4-Bromofluorobenzene	85-114	50	49.86	100		
cis-1,2-Dichloroethene	78-123	20	19.06	95		
Dibromofluoromethane	80-119	50	46.3	93		
Toluene-d8	89-112	50	47.91	96		
Trichloroethene	79-123	20	20.56	103		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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www.alsglobal.com

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230125	X012506.D	01/25/23 09:24	VOA6_426481
VLCSW-230125	LCS	VLCSW-230125	X012504.D	01/25/23 08:42	VOA6_426481
BatchQC	MS	HS23010982-02MS	X012509.D	01/25/23 10:27	VOA6_426481
BatchQC	MSD	HS23010982-02MSD	X012510.D	01/25/23 10:48	VOA6_426481
Trip Blank-2301	SAMP	HS23011165-01	X012519.D	01/25/23 13:57	VOA6_426481

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230126	X012606.D	01/26/23 10:09	VOA6_426583
VLCSW-230126	LCS	VLCSW-230126	X012604.D	01/26/23 09:27	VOA6_426583
BatchQC	MS	HS23011136-04MS	X012608.D	01/26/23 10:51	VOA6_426583
BatchQC	MSD	HS23011136-04MSD	X012609.D	01/26/23 11:12	VOA6_426583
16WW38-230120	SAMP	HS23011165-02	X012621.D	01/26/23 15:24	VOA6_426583
16WW38-230120-FD	SAMP	HS23011165-03	X012622.D	01/26/23 15:45	VOA6_426583

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	**MBLK**	**VBLKW-230127**	**X012706.D**	**01/27/23 09:35**	**VOA6_426682**
VLCSW-230127	LCS	VLCSW-230127	X012704.D	01/27/23 08:53	VOA6_426682
BatchQC	MS	HS23011212-02MS	X012708.D	01/27/23 10:18	VOA6_426682
BatchQC	MSD	HS23011212-02MSD	X012709.D	01/27/23 10:39	VOA6_426682
16WW37-230120	SAMP	HS23011165-04	X012723.D	01/27/23 15:33	VOA6_426682
16WW51-230120	SAMP	HS23011165-05	X012724.D	01/27/23 15:54	VOA6_426682
16RW12-230120	SAMP	HS23011165-06	X012725.D	01/27/23 16:15	VOA6_426682
16RW12-2301-FD	SAMP	HS23011165-07	X012726.D	01/27/23 16:36	VOA6_426682
16WW22-230120	SAMP	HS23011165-08	X012727.D	01/27/23 16:57	VOA6_426682
16WW56-230120	SAMP	HS23011165-09	X012728.D	01/27/23 17:18	VOA6_426682

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230130	X013007.D	01/30/23 15:13	VOA6_426883
VLCSW-230130	LCS	VLCSW-230130	X013005.D	01/30/23 14:31	VOA6_426883
BatchQC	MS	HS23011273-02MS	X013009.D	01/30/23 15:56	VOA6_426883
BatchQC	MSD	HS23011273-02MSD	X013010.D	01/30/23 16:17	VOA6_426883
16WW37-230120	SAMP	HS23011165-04	X013012.D	01/30/23 16:59	VOA6_426883
16WW51-230120	SAMP	HS23011165-05	X013013.D	01/30/23 17:20	VOA6_426883

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Form 5

Instrument Performance Check

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_424237

Tune File X121601.D 12/16/22 11:17

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.4)
75	30.0 - 60.0% of mass 95	46.1 (46.1)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.2 (7.16)
173	Less than 2.0% of mass 174	0.8 (0.897) 1
174	50.0 - 120.0% of mass 95	89 (89)
175	4.0 - 9.0% of mass 174	7 (7.82) 1
176	93.0 - 101.0% of mass 174	87.4 (98.2) 1
177	5.0 - 9.0% of mass 176	5.8 (6.59) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	ICAL1	12/16/22 11:38	X121602	VSTD000.25
2	ICAL2	12/16/22 12:20	X121603	VSTD000.5
3	ICAL3	12/16/22 12:41	X121604	VSTD001
4	ICAL4	12/16/22 13:02	X121605	VSTD002
5	ICAL5	12/16/22 13:23	X121606	VSTD005
6	ICAL6	12/16/22 13:43	X121607	VSTD020
7	ICAL7	12/16/22 14:04	X121608	VSTD050
8	ICAL8	12/16/22 14:25	X121609	VSTD100
9	ICAL9	12/16/22 14:46	X121610	VSTD150
10	ICAL	12/16/22 15:07	X121611	VSTD200
11	ICV	12/16/22 15:49	X121613	CCV

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426481

Tune File X012501.D 01/25/23 07:18

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.1 (19.1)
75	30.0 - 60.0% of mass 95	50.9 (50.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.3 (7.3)
173	Less than 2.0% of mass 174	0.8 (0.922) 1
174	50.0 - 120.0% of mass 95	84.4 (84.4)
175	4.0 - 9.0% of mass 174	6.1 (7.23) 1
176	93.0 - 101.0% of mass 174	82.3 (97.6) 1
177	5.0 - 9.0% of mass 176	5.3 (6.48) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	01/25/23 07:39	X012502	CCV
2	LCS	01/25/23 08:42	X012504	VLCSW-230125
3	MBLK	01/25/23 09:24	X012506	VBLKW-230125
4	MS	01/25/23 10:27	X012509	ZZZZZZMS
5	MSD	01/25/23 10:48	X012510	ZZZZZZMSD
6	SAMP	01/25/23 13:57	X012519	Trip Blank-2301
7	CCV_EN	01/25/23 15:00	X012522	CCV-END

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426583

Tune File X012601.D 01/26/23 08:03

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.4 (18.4)
75	30.0 - 60.0% of mass 95	49.1 (49.1)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.92)
173	Less than 2.0% of mass 174	0.7 (0.768) 1
174	50.0 - 120.0% of mass 95	90.1 (90.1)
175	4.0 - 9.0% of mass 174	6.1 (6.78) 1
176	93.0 - 101.0% of mass 174	85.7 (95.2) 1
177	5.0 - 9.0% of mass 176	5.6 (6.58) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	01/26/23 08:24	X012602	CCV
2	LCS	01/26/23 09:27	X012604	VLCSW-230126
3	MBLK	01/26/23 10:09	X012606	VBLKW-230126
4	MS	01/26/23 10:51	X012608	ZZZZZZMS
5	MSD	01/26/23 11:12	X012609	ZZZZZZMSD
6	SAMP	01/26/23 15:24	X012621	16WW38-230120
7	SAMP	01/26/23 15:45	X012622	16WW38-230120-FD
8	CCV_EN	01/26/23 18:12	X012629	CCV-END

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426682

Tune File X012701.D 01/27/23 07:29

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.7 (19.7)
75	30.0 - 60.0% of mass 95	49 (49)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.8 (6.75)
173	Less than 2.0% of mass 174	0.9 (1.02) 1
174	50.0 - 120.0% of mass 95	84.1 (84.1)
175	4.0 - 9.0% of mass 174	6.7 (7.92) 1
176	93.0 - 101.0% of mass 174	79.9 (95.1) 1
177	5.0 - 9.0% of mass 176	5.3 (6.69) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	01/27/23 07:50	X012702	CCV
2	LCS	01/27/23 08:53	X012704	VLCSW-230127
3	MBLK	01/27/23 09:35	X012706	VBLKW-230127
4	MS	01/27/23 10:18	X012708	ZZZZZZMS
5	MSD	01/27/23 10:39	X012709	ZZZZZZMSD
6	SAMP	01/27/23 15:33	X012723	16WW37-230120
7	SAMP	01/27/23 15:54	X012724	16WW51-230120
8	SAMP	01/27/23 16:15	X012725	16RW12-230120
9	SAMP	01/27/23 16:36	X012726	16RW12-2301-FD
10	SAMP	01/27/23 16:57	X012727	16WW22-230120
11	SAMP	01/27/23 17:18	X012728	16WW56-230120
12	CCV_EN	01/27/23 17:39	X012729	CCV-END

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426883

Tune File X013001.D 01/30/23 13:07

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.3)
75	30.0 - 60.0% of mass 95	48.3 (48.3)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.15)
173	Less than 2.0% of mass 174	0.5 (0.641) 1
174	50.0 - 120.0% of mass 95	81.6 (81.6)
175	4.0 - 9.0% of mass 174	6.4 (7.89) 1
176	93.0 - 101.0% of mass 174	80.1 (98.2) 1
177	5.0 - 9.0% of mass 176	5.7 (7.05) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	01/30/23 13:49	X013003	CCV
2	CCB	01/30/23 14:10	X013004	CCB
3	LCS	01/30/23 14:31	X013005	VLCSW-230130
4	MBLK	01/30/23 15:13	X013007	VBLKW-230130
5	MS	01/30/23 15:56	X013009	ZZZZZZMS
6	MSD	01/30/23 16:17	X013010	ZZZZZZMSD
7	SAMP	01/30/23 16:59	X013012	16WW37-230120
8	SAMP	01/30/23 17:20	X013013	16WW51-230120
9	CCV_EN	01/30/23 23:17	X013030	CCV-END

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Form 6

Initial Calibration Data

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138
ICAL End Date 16-DEC-2022 1507

Calibration Files

Level 1 ..voa6.i\X221216.b\X121602.D
Level 2 ..voa6.i\X221216.b\X121603.D
Level 3 ..voa6.i\X221216.b\X121604.D
Level 4 ..voa6.i\X221216.b\X121605.D
Level 5 ..voa6.i\X221216.b\X121606.D
Level 6 ..voa6.i\X221216.b\X121607.D
Level 7 ..voa6.i\X221216.b\X121608.D
Level 8 ..voa6.i\X221216.b\X121609.D
Level 9 ..voa6.i\X221216.b\X121610.D
Level 10 ..voa6.i\X221216.b\X121611.D

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Dichlorodifluoromethane	NE 160392	1990 309019	2911 476130	6239 635808	15008	63382	LINR	0.00786	0.35247		0.99971	
Chloromethane	NE 192710	2466 388163	3670 621048	8057 865151	19623	72324	LINR	0.04423	0.47332		0.99747	
Propionitrile	NE 0.04851	0.06018 0.04917	0.05265 0.05178	0.04739 0.05178	0.05114	0.04656	AVRG		0.05102		7.91502	
Vinyl Chloride	NE 0.44103	0.52268 0.42953	0.40472 0.44923	0.39786 0.45909	0.42164	0.40520	AVRG		0.43678		8.81916	
Bromomethane	NE 139689	1893 284165	3293 470318	5996 NE	15112	52034	LINR	0.03529	0.34244		0.99519	
Chloroethane	NE 0.29447	0.35820 0.28714	0.27936 0.30494	0.31044 0.30410	0.31436	0.28309	AVRG		0.30401		7.80750	
Trichlorofluoromethane	NE 0.60756	0.71207 0.59817	0.54474 0.64605	0.57316 0.65074	0.59068	0.57785	AVRG		0.61122		8.28859	
Acrolein	NE 27445	440 60756	761 96139	1317 125874	2699	12279	LINR	0.05644	0.03519		0.99833	
Acetone	NE 124798	2669 243517	4787 373504	7041 514105	17632	50987	LINR	-0.00069	0.14025		0.99910	
1,1-Dichloroethene	NE 0.36912	0.44142 0.36226	0.35953 0.38517	0.37590 0.39076	0.37389	0.35725	AVRG		0.37948		6.80558	

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Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isobutyl Alcohol	NE 0.05462	0.05610 0.05559	0.05239 0.05946	0.05650 0.05952	0.05728	0.05469	AVRG		0.05624		4.10209	
Acetonitrile	NE 0.04430	0.04776 0.04552	0.04645 0.04791	0.04253 0.04736	0.04357	0.04417	AVRG		0.04551		4.32823	
Allyl Chloride	NE 0.81324	0.99118 0.83169	0.95202 0.86799	0.81682 0.86396	0.84304	0.82034	AVRG		0.86670		7.30464	
Iodomethane	NE 455792	2397 958603	3865 1554547	8702 2193685	26708	143457	QUAD	0.06641	2.01333	-0.08031	0.99956	
Acrylonitrile	NE 0.12970	0.12113 0.12956	0.12536 0.13857	0.12482 0.13997	0.12256	0.12666	AVRG		0.12870		5.15060	
Methylene Chloride	NE 0.49311	0.63666 0.46611	0.59459 0.48892	0.50364 0.47907	0.50885	0.51372	AVRG		0.52052		10.92514	
Methyl tert-butyl ether	NE 1.16844	1.26574 1.18584	1.39027 1.23813	1.27259 1.24075	1.24993	1.16729	AVRG		1.24211		5.52745	
Carbon Disulfide	NE 0.97542	1.07494 0.97088	1.00609 1.02392	0.95722 1.06178	0.94769	0.91773	AVRG		0.99285		5.32584	
trans-1,2-Dichloroethene	NE 0.41851	0.48064 0.41454	0.42427 0.43221	0.38965 0.43554	0.42173	0.40526	AVRG		0.42470		5.92187	
Vinyl Acetate	NE 1.07506	1.09845 1.07519	0.99054 1.16529	1.06368 1.16741	1.12321	1.05445	AVRG		1.09037		5.13969	
1,1-Dichloroethane	NE 0.72125	0.83949 0.70504	0.80145 0.74074	0.69997 0.74459	0.75023	0.70550	AVRG		0.74536		6.34771	
Chloroprene	NE 0.16145	0.19503 0.16116	0.18721 0.16823	0.17124 0.17481	0.15874	0.15219	AVRG		0.17001		8.17551	

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Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
2-Butanone	NE 130179	1292 264221	2498 407629	5418 555896	11771	47830	LINR	0.06050	0.15346		0.99924	
Methacrylonitrile	NE 0.32328	0.44770 0.32565	0.36475 0.34081	0.34993 0.34351	0.34840	0.34235	AVRG		0.35404		10.52608	
2,2-Dichloropropane	NE 0.62063	0.70167 0.61027	0.65466 0.64008	0.60521 0.65162	0.61866	0.59289	AVRG		0.63286		5.25207	
cis-1,2-Dichloroethene	NE 0.49985	0.61803 0.48778	0.49622 0.51710	0.52999 0.51455	0.50446	0.48374	AVRG		0.51686		7.86616	
Chloroform	NE 0.81023	0.87547 0.78725	0.86252 0.84612	0.85352 0.84457	0.84666	0.79238	AVRG		0.83541		3.73708	
Bromochloromethane	NE 0.26364	0.32093 0.26287	0.29857 0.28290	0.28124 0.28282	0.29319	0.26077	AVRG		0.28299		6.91423	
1,1,1-Trichloroethane	NE 0.65703	0.76105 0.64156	0.65666 0.67604	0.60049 0.69720	0.64387	0.63152	AVRG		0.66283		6.90392	
1,1-Dichloropropene	NE 0.37084	0.35889 0.35979	0.34245 0.36734	0.33027 0.37324	0.34789	0.34406	AVRG		0.35497		4.12237	
1,2-Dichloroethane	NE 0.39909	0.45501 0.40154	0.40587 0.41082	0.39492 0.41030	0.41104	0.39842	AVRG		0.40967		4.39762	
Carbon Tetrachloride	NE 0.36348	0.40179 0.35355	0.45347 0.36349	0.40515 0.37429	0.35265	0.34370	AVRG		0.37906		9.25223	
Benzene	NE 1.17241	1.34410 1.15323	1.19304 1.17461	1.18322 1.18197	1.19608	1.14722	AVRG		1.19399		4.90945	
Trichloroethene	NE 0.33750	0.37562 0.33140	0.31723 0.33891	0.33885 0.34649	0.33109	0.33079	AVRG		0.33865		4.73809	

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Initial Calibration Data

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Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromodichloromethane	NE 0.42913	0.53078 0.42602	0.45893 0.44706	0.43689 0.45009	0.42833	0.42563	AVRG		0.44810		7.41292	
Methyl Methacrylate	NE 0.32238	0.38746 0.32465	0.34921 0.34726	0.33881 0.35704	0.33548	0.30606	AVRG		0.34093		6.87301	
2-Chloroethylvinyl ether	NE 0.13057	0.13531 0.12541	0.11670 0.12799	0.12141 0.12973	0.12912	0.13108	AVRG		0.12748		4.37734	
1,2-Dichloropropane	NE 0.31044	0.35613 0.30521	0.33560 0.31542	0.29692 0.31856	0.31629	0.30391	AVRG		0.31761		5.71516	
2-Nitropropane	NE 0.73644	1.05598 0.73807	0.76159 0.78445	0.80915 0.80253	0.77468	0.75211	AVRG		0.80167		12.32619	
Dibromomethane	NE 0.20672	0.25085 0.20317	0.21183 0.21324	0.22317 0.21357	0.21081	0.20954	AVRG		0.21588		6.58330	
4-Methyl-2-Pentanone	NE 0.25814	0.28987 0.25156	0.26418 0.26114	0.28502 0.26166	0.26684	0.26684	AVRG		0.26725		4.64865	
cis-1,3-Dichloropropene	NE 0.52860	0.53732 0.53368	0.47650 0.55605	0.50179 0.56353	0.51804	0.52075	AVRG		0.52625		5.04185	
Ethyl Methacrylate	NE 0.20804	0.28138 0.22619	0.24077 0.24786	0.23910 0.26163	0.20135	0.21276	AVRG		0.23545		11.14205	
Toluene	NE 1.36202	1.60765 1.32088	1.37997 1.35198	1.37463 1.35870	1.36957	1.31273	AVRG		1.38201		6.34459	
trans-1,3-Dichloropropene	NE 0.44682	0.44236 0.44877	0.39493 0.47075	0.40065 0.48573	0.41433	0.42619	AVRG		0.43673		7.01005	
2-Hexanone	NE 0.17839	0.19991 0.17192	0.17409 0.18312	0.17972 0.18566	0.18386	0.17978	AVRG		0.18183		4.45920	

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Initial Calibration Data

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Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
1,1,2-Trichloroethane	NE 0.26479	0.32419 0.25654	0.26954 0.26825	0.29087 0.26649	0.28491	0.26973	AVRG		0.27726		7.37510	
1,3-Dichloropropane	NE 0.53007	0.62065 0.51166	0.55587 0.53587	0.54217 0.53590	0.54663	0.53274	AVRG		0.54573		5.60982	
Dibromochloromethane	NE 0.39906	0.43810 0.39075	0.38701 0.40792	0.39402 0.40793	0.38762	0.38903	AVRG		0.40016		4.08851	
Tetrachloroethene	NE 0.29836	0.33024 0.28012	0.25660 0.28506	0.28292 0.28889	0.26322	0.28810	AVRG		0.28594		7.36821	
1,2-Dibromoethane	NE 0.35151	0.36263 0.33998	0.33509 0.35512	0.32714 0.35096	0.35422	0.34322	AVRG		0.34665		3.22017	
1-Chlorohexane	NE 0.24556	0.26597 0.23682	0.22998 0.25047	0.21386 0.26558	0.22191	0.24457	AVRG		0.24163		7.44215	
Chlorobenzene	NE 0.95622	1.20054 0.92158	0.96715 0.96470	0.94773 0.97511	0.95913	0.93014	AVRG		0.98026		8.61127	
1,1,1,2-Tetrachloroethane	NE 0.36060	0.42477 0.35457	0.34549 0.36940	0.36191 0.37188	0.34596	0.34861	AVRG		0.36480		6.70616	
Ethylbenzene	NE 0.47797	0.47482 0.45902	0.43893 0.46986	0.45503 0.47447	0.45171	0.45394	AVRG		0.46175		2.86128	
m,p-Xylenes	NE 0.60205	0.69860 0.58346	0.55710 0.60071	0.56286 0.61493	0.56012	0.57743	AVRG		0.59525		7.35638	
o-Xylene	NE 0.59049	0.68372 0.57562	0.51381 0.60058	0.56977 0.61516	0.56849	0.56994	AVRG		0.58751		7.79066	
Styrene	NE 1.03116	1.02806 1.01266	0.79991 1.07651	0.88633 1.09594	0.95404	0.97800	AVRG		0.98473		9.52837	

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Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

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Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromoform	NE	0.31195	0.25221	0.26817	0.25683	0.26696						
	0.27805	0.27584	0.29222	0.29278			AVRG		0.27722		6.87336	
Isopropylbenzene	NE	1.35706	1.16805	1.25967	1.30607	1.32939						
	1.41077	1.36357	1.42773	1.45784			AVRG		1.34224		6.69875	
1,1,2,2-Tetrachloroethane	NE	0.91828	0.84470	0.83187	0.83648	0.79018						
	0.74007	0.71754	0.75363	0.73962			AVRG		0.79693		8.24435	
1,2,3-Trichloropropane	NE	0.58047	0.56626	0.53238	0.58048	0.54015						
	0.53505	0.52761	0.60583	0.53897			AVRG		0.55636		4.97536	
trans-1,4-Dichloro-2-butene	NE	0.12274	0.09213	0.10381	0.10162	0.10094						
	0.10800	0.10845	0.11623	0.11751			AVRG		0.10794		8.88299	
n-Propylbenzene	NE	3.20938	2.13608	2.47845	2.73904	2.83806						
	2.90611	2.78733	2.90643	2.92515			AVRG		2.76956		11.03336	
Bromobenzene	NE	0.90477	0.79060	0.83045	0.81066	0.82521						
	0.80056	0.78064	0.82147	0.81857			AVRG		0.82033		4.35370	
1,3,5-Trimethylbenzene	NE	2.06484	1.68256	1.97796	2.03460	2.07048						
	2.12398	2.07652	2.18148	2.20122			AVRG		2.04596		7.47801	
2-Chlorotoluene	NE	1.93144	1.77508	1.90257	1.85141	1.80074						
	1.79455	1.71779	1.79669	1.78644			AVRG		1.81741		3.65582	
4-Chlorotoluene	NE	2.19766	1.72811	1.99610	2.10678	2.06499						
	2.09570	2.05624	2.19099	2.20989			AVRG		2.07183		7.13984	
tert-Butylbenzene	NE	1.83685	1.33195	1.56610	1.66625	1.69957						
	1.74647	1.66742	1.77236	1.78580			AVRG		1.67475		9.03914	
1,2,4-Trimethylbenzene	NE	2.44261	1.84882	2.01055	2.12502	2.14371						
	2.18278	2.12445	2.25368	2.24326			AVRG		2.15277		7.66012	

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sec-Butylbenzene	NE 2.38144	2.28219 2.30322	1.76441 2.43114	1.95855 2.46321	2.17705	2.29365	AVRG		2.22832		10.32115	
p-Isopropyltoluene	NE 2.16946	2.11113 2.07989	1.42476 2.19272	1.76888 2.20460	1.95504	2.06459	AVRG		1.99679		12.72950	
1,3-Dichlorobenzene	NE 1.39279	1.34465 1.34586	1.21323 1.42324	1.32549 1.42237	1.40186	1.38449	AVRG		1.36155		4.82043	
1,4-Dichlorobenzene	NE 1.45712	1.63128 1.44362	1.40441 1.52301	1.45614 1.52190	1.47766	1.45673	AVRG		1.48576		4.44368	
Benzyl Chloride	NE 472387	3642 1009234	4632 1650494	12783 2286488	35254	163895	LINR	0.05387	0.82700		0.99832	
n-Butylbenzene	NE 696355	5149 1425779	8459 2293126	19853 3216534	54831	248190	LINR	0.03551	1.99525		0.99890	
1,2-Dichlorobenzene	NE 1.39065	1.58241 1.36532	1.22790 1.44207	1.34058 1.43128	1.42827	1.41177	AVRG		1.40225		6.73504	
1,2-Dibromo-3-Chloropropane	NE 48660	441 94321	778 149691	1619 205063	4911	18635	LINR	0.00184	0.12764		0.99948	
1,2,4-Trichlorobenzene	NE 0.95146	0.91627 0.90293	0.65608 0.94400	0.83350 0.95022	0.89445	0.91558	AVRG		0.88494		10.53488	
Hexachlorobutadiene	NE 155390	1477 299042	1928 466452	3970 654615	13454	55912	QUAD	-0.00107	2.58308	-0.07816	0.99966	
Naphthalene	NE 2.14094	2.01970 2.06230	1.60683 2.15450	1.85985 2.12714	2.04153	2.10842	AVRG		2.01347		8.78393	
1,2,3-Trichlorobenzene	NE 0.85880	1.02696 0.83163	0.68341 0.85478	0.79977 0.84995	0.84958	0.87304	AVRG		0.84755		10.42886	

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Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Ethyl Acetate	NE 0.37280	0.44748 0.34980	0.34909 0.38488	0.40657 0.39192	0.39985	0.40902	AVRG		0.39016		7.92750	
Methyl Acrylate	NE 0.33014	0.38247 0.33914	0.34243 0.35741	0.29817 0.35867	0.33173	0.31494	AVRG		0.33946		7.36740	
n-Butanol	NE 54418	622 124057	1171 210842	2004 297334	4891	15012	QUAD	0.80435	158	-58.97368	0.99813	*
Ethyl Acrylate	NE 420886	NE 862071	NE 1358300	9825 1836030	26414	172044	LINR	0.05859	1.02468		0.99901	*
Cyclohexanone	NE 0.01934	0.07093 0.01945	0.03374 0.01993	0.02556 0.01966	0.01884	0.01912	AVRG		0.02740		62.21369	*
1,4-Dioxane	0.00463 0.00443	0.00501 0.00442	0.00455 0.00480	0.00386 0.00497	0.00466	0.00438	AVRG		0.00457		7.29408	
n-Hexane	NE 0.39852	0.41368 0.36338	0.26016 0.39788	0.32309 0.40267	0.32437	0.35631	AVRG		0.36001		13.97418	
Freon TF	NE 0.37622	0.40111 0.36030	0.37263 0.38547	0.33005 0.39624	0.32940	0.35185	AVRG		0.36703		7.16337	
Methyl Acetate	NE 0.21071	0.27499 0.21615	0.23617 0.22455	0.22728 0.22667	0.19900	0.20937	AVRG		0.22499		9.73149	
Methylcyclohexane	NE 0.60749	0.69525 0.62521	0.49917 0.65111	0.58500 0.65095	0.56389	0.63030	AVRG		0.61204		9.36456	
Isopropyl alcohol	NE 0.01716	0.02240 0.01767	0.01652 0.01919	0.01536 0.01934	0.01833	0.01677	AVRG		0.01808		11.41496	
Amyl alcohol	NE 0.00433	NE 0.00498	NE 0.00582	NE 0.00605	0.00196	0.00315	AVRG		0.00438		36.19033	*

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Initial Calibration Data

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Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Allyl alcohol	NE 0.01993	0.03347 0.01817	0.01301 0.01989	0.01615 0.02013	0.01622	0.01782	AVRG		0.01942		29.60962	*
4-Methyl-2-pentanol	NE 0.04191	0.13977 0.04448	0.06768 0.05120	0.05740 0.05444	0.04467	0.04137	AVRG		0.06032		51.38639	*
Tert-butyl alcohol	NE 0.03307	0.04145 0.03257	0.03359 0.03586	0.03291 0.03628	0.03387	0.03199	AVRG		0.03462		8.48705	
Diethyl ether	NE 0.30968	0.40393 0.31674	0.33122 0.33062	0.34807 0.33029	0.33548	0.30080	AVRG		0.33409		8.92652	
1,3-Butadiene	NE 0.33288	0.38854 0.32994	0.38107 0.34951	0.31405 0.35836	0.31693	0.31715	AVRG		0.34316		8.15203	
Cyclohexane	NE 237699	2803 432198	4003 682728	7375 943314	19859	84355	LINR	0.02522	0.51703		0.99847	
Tetrahydrofuran	NE 58181	900 109518	1361 162133	2867 219995	7598	28221	LINR	-0.06333	0.06025		0.99942	
alpha-Methylstyrene	NE 1.13399	1.35155 1.10993	0.85865 1.16502	1.02359 1.17184	1.06165	1.09458	AVRG		1.10787		11.89593	
Diisopropyl ether	NE 1.21127	1.41201 1.25239	1.35074 1.32366	1.30436 1.33324	1.25459	1.23114	AVRG		1.29704		5.00179	
Dichlorofluoromethane	NE 0.05734	NE 0.05842	NE 0.06234	NE 0.06214	0.06484	0.06089	AVRG		0.06099		4.51209	*
Propylene oxide	NE 0.03071	NE 0.03174	0.05613 0.03407	0.03062 0.03228	0.03687	0.02961	AVRG		0.03525		24.79698	*
3-Methyl-1-butanol	NE 0.00489	NE 0.00483	NE 0.00601	NE 0.00612	0.00211	0.00438	AVRG		0.00472		30.80128	*

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Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Butyl acrylate	NE 0.63698	0.73114 0.67566	0.58907 0.72950	0.57945 0.74630	0.58578	0.60437	AVRG		0.65314		10.52624	
1,2,3-Trimethylbenzene	NE 2.21302	2.76749 2.29498	2.61167 2.36627	2.52848 2.30685	2.25428	2.32678	AVRG		2.40776		7.74526	
Ethanol	NE 29714	458 56794	787 87890	1703 117751	3072	12594	LINR	-0.06594	0.00325		0.99956	
1-Propanol	NE 0.00727	0.00862 0.00784	0.00964 0.00802	0.00852 0.00816	0.00825	0.00721	AVRG		0.00817		9.04495	
tert-Butyl formate	NE 0.24908	NE 0.25521	NE 0.29218	0.25634 0.29283	0.33766	0.24706	AVRG		0.27577		12.14219	*
3,3-Dimethyl-1-butanol	NE 0.02235	NE 0.02388	NE 0.02628	NE 0.02679	0.01912	0.02169	AVRG		0.02335		12.46791	*
tert-Amyl methyl ether	NE 1.32775	2.53777 1.35994	1.82297 1.44272	1.67155 1.43312	1.55575	1.35887	AVRG		1.61227		23.79383	*
tert-Butyl ethyl ether	NE 1.27589	1.81984 1.30743	1.44501 1.37993	1.35004 1.39745	1.35223	1.28319	AVRG		1.40122		11.86386	
tert-Amyl alcohol	NE 0.02491	0.03129 0.02552	0.02457 0.02922	0.02972 0.02928	0.03377	0.02471	AVRG		0.02811		11.82574	
Epichlorohydrin	NE 58515	926 126478	1242 183469	2483 257397	5941	23842	LINR	0.04999	0.02268		0.99921	
Isoprene	NE 0.13550	0.20890 0.13652	0.10782 0.14294	0.12769 0.14612	0.14811	0.13210	AVRG		0.14286		19.27805	*
n-Amyl acetate	NE 0.52035	NE 0.54240	NE 0.59479	NE 0.61078	NE	0.53118	AVRG		0.55990		7.20069	*

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Initial Calibration Data

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Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isopropyl acetate	NE 0.72227	1.34716 0.73275	0.78367 0.76494	0.79130 0.76466	0.77391	0.74796	AVRG		0.82540		23.86221	*
n-Butyl acetate	NE 0.19856	0.47947 0.20815	0.28533 0.21762	0.15799 0.22438	0.22627	0.22783	AVRG		0.24729		37.68114	*
Acetaldehyde	NE 67188	NE 107798	3384 161053	5661 205547	6161	32393	LINR	-0.46573	0.02837		0.99553	
Methyl Amyl Ketone	NE 0.62641	1.24254 0.65992	0.68451 0.69377	0.63815 0.71197	0.57607	0.60726	AVRG		0.71562		28.26825	*
Dimethyl Disulfide	NE 0.67210	0.79855 0.68414	0.63899 0.70500	0.61608 0.69777	0.61366	0.66406	AVRG		0.67671		8.32695	
1,2-Dichloroethylene (total)	NE 0.45918	0.54933 0.45116	0.46024 0.47466	0.45982 0.47504	0.46309	0.44450	AVRG		0.47078		6.59168	
Xylenes (total)	NE 0.56357	0.65089 0.56191	0.51351 0.58028	0.53491 0.60523	0.53725	0.54549	AVRG		0.56589		7.37687	
Dibromofluoromethane	NE 211939	2321 438954	4769 652724	9050 856027	24255	90108	LINR	-0.00333	0.47851		0.99972	
1,2-Dichloroethane-d4	NE 222293	2849 455890	5559 686218	9783 919752	24938	92990	LINR	0.00543	0.50950		0.99982	
Toluene-d8	NE 1.18347	1.47608 1.20166	1.31472 1.16429	1.20749 1.10711	1.24798	1.21701	AVRG		1.23554		8.62469	
4-Bromofluorobenzene	NE 292753	3870 615584	7790 936681	13631 1277239	32501	116878	LINR	0.00128	0.46242		0.99992	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

Instrument ID voa6.i ICAL Date 16-DEC-2022
Lab File ID X121613.D ICAL Time 2249
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachlor	50.00	48.61	97.24	80-120	
1,1,1-Trichloroeth	50.00	50.16	100.33	80-120	
1,1,2,2-Tetrachlor	50.00	46.75	93.50	80-120	
Freon TF	50.00	52.90	105.81	80-120	
Methyl Acetate	50.00	48.17	96.35	80-120	
Cyclohexane	50.00	51.73	103.47	80-120	
Methylcyclohexane	50.00	50.89	101.79	80-120	
Carbon Disulfide	100.00	98.50	98.50	80-120	
2-Hexanone	100.00	96.73	96.74	80-120	
1,1,2-Trichloroeth	50.00	47.91	95.83	80-120	
1,1-Dichloroethane	50.00	48.19	96.39	80-120	
1,1-Dichloroethene	50.00	49.34	98.68	80-120	
1,1-Dichloropropen	50.00	52.11	104.24	80-120	
1,2,3-Trichloroben	50.00	52.79	105.58	80-120	
1,2,3-Trichloropro	50.00	48.07	96.16	80-120	
1,2,4-Trichloroben	50.00	54.66	109.32	80-120	
1,2,4-Trimethylben	50.00	51.32	102.65	80-120	
1,2-Dibromo-3-Chlo	50.00	50.53	101.07	80-120	
1,2-Dibromoethane	50.00	50.24	100.49	80-120	
Acrolein	100.00	95.06	95.07	80-120	
Acrylonitrile	100.00	101.42	101.43	80-120	
1,2-Dichlorobenzen	50.00	49.52	99.05	80-120	
1,2-Dichloroethane	50.00	49.52	99.05	80-120	
1,2-Dichloropropan	50.00	49.60	99.22	80-120	
1,3,5-Trimethylben	50.00	52.30	104.61	80-120	
1,3-Dichlorobenzen	50.00	51.21	102.43	80-120	
1,3-Dichloropropan	50.00	47.82	95.66	80-120	
1,4-Dichlorobenzen	50.00	49.71	99.44	80-120	
1-Chlorohexane	50.00	51.98	103.97	80-120	
2,2-Dichloropropan	50.00	50.98	101.98	80-120	
2-Butanone	100.00	97.74	97.74	80-120	
2-Chloroethylvinyl	100.00	104.19	104.19	80-120	
2-Chlorotoluene	50.00	49.94	99.89	80-120	
4-Chlorotoluene	50.00	51.25	102.51	80-120	

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

Instrument ID voa6.i ICAL Date 16-DEC-2022
Lab File ID X121613.D ICAL Time 2249
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	54.75	109.51	80-120	
4-Methyl-2-Pentano	100.00	94.03	94.03	80-120	
Acetone	100.00	101.89	101.90	80-120	
Acetonitrile	500.00	475.59	95.12	80-120	
Allyl Chloride	50.00	47.31	94.63	80-120	
Benzene	50.00	50.29	100.58	80-120	
Bromobenzene	50.00	49.62	99.25	80-120	
Bromochloromethane	50.00	47.25	94.51	80-120	
Bromodichlorometha	50.00	49.22	98.45	80-120	
Bromoform	50.00	49.33	98.66	80-120	
Bromomethane	50.00	50.78	101.58	80-120	
Carbon Tetrachlori	50.00	49.06	98.12	80-120	
Chlorobenzene	50.00	48.34	96.68	80-120	
Chloroethane	50.00	48.32	96.64	80-120	
Chloroform	50.00	48.45	96.91	80-120	
Chloromethane	50.00	50.17	100.35	80-120	
Chloroprene	50.00	47.74	95.50	80-120	
cis-1,2-Dichloroet	50.00	48.25	96.51	80-120	
cis-1,3-Dichloropr	50.00	52.11	104.22	80-120	
Dibromochlorometha	50.00	49.50	99.02	80-120	
Dibromomethane	50.00	49.19	98.38	80-120	
Dichlorodifluorome	50.00	52.19	104.38	80-120	
Ethylbenzene	50.00	51.31	102.63	80-120	
Ethyl Methacrylate	50.00	44.07	88.15	80-120	
Iodomethane	100.00	96.48	96.49	80-120	
Isobutyl Alcohol	1000.00	982.15	98.22	70-130	
Propionitrile	500.00	486.89	97.38	70-130	
Hexachlorobutadien	50.00	57.73	115.48	80-120	
Isopropylbenzene	50.00	52.09	104.19	80-120	
m,p-Xylenes	100.00	100.17	100.17	80-120	
Methyl tert-butyl	50.00	48.12	96.25	80-120	
Methylene Chloride	50.00	47.56	95.14	80-120	
Methacrylonitrile	50.00	46.73	93.48	80-120	
Methyl Methacrylat	50.00	47.71	95.43	80-120	

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_424237

Volatiles by by EPA 8260

Instrument ID voa6.i ICAL Date 16-DEC-2022
Lab File ID X121613.D ICAL Time 2249
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	50.66	101.33	80-120	
n-Propylbenzene	50.00	52.67	105.35	80-120	
Naphthalene	50.00	52.67	105.35	80-120	
o-Xylene	50.00	49.75	99.51	80-120	
sec-Butylbenzene	50.00	54.16	108.34	80-120	
Styrene	50.00	52.09	104.20	80-120	
tert-Butylbenzene	50.00	52.83	105.67	80-120	
Tetrachloroethene	50.00	50.99	101.99	80-120	
Toluene	50.00	49.20	98.42	80-120	
trans-1,2-Dichloro	50.00	49.99	99.98	80-120	
trans-1,3-Dichloro	50.00	52.50	105.01	80-120	
trans-1,4-Dichloro	50.00	49.73	99.47	80-120	
Trichloroethene	50.00	51.28	102.56	80-120	
Trichlorofluoromet	50.00	51.00	102.02	80-120	
Vinyl Acetate	100.00	104.75	104.76	80-120	
Vinyl Chloride	50.00	50.57	101.15	80-120	
1,2-Dichloroethyle	100.00	98.24	98.25	80-120	
Xylenes (total)	150.00	149.92	99.95	80-120	
1,4-Dioxane	1000.00	1021.76	102.18	80-120	
Dibromofluorometha	50.00	50.91	101.84	71-125	
1,2-Dichloroethane	50.00	50.36	100.73	70-125	
Toluene-d8	50.00	49.50	99.00	75-125	
4-Bromofluorobenze	50.00	49.98	99.97	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 0739
Lab File ID X012502.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	42.94017	0.29994	0.100	14.11967	20.0	Linear	
Chloromethane	50.0	43.94037	0.39502	0.100	12.11927	20.0	Linear	
Propionitrile	0.05102	0.05054	0.05054	0.010	0.94574	20.0	Averaged	
Vinyl Chloride	0.43678	0.40969	0.40969	0.100	6.20259	20.0	Averaged	
Bromomethane	50.0	42.55394	0.27936	0.100	14.89212	20.0	Linear	
Chloroethane	0.30401	0.26660	0.26660	0.100	12.30500	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.66633	0.66633	0.100	-9.01551	20.0	Averaged	
Acrolein	100	96.94529	0.03312	0.010	3.05471	20.0	Linear	
Acetone	100	93.98292	0.13186	0.100	6.01708	20.0	Linear	
1,1-Dichloroethene	0.37948	0.37087	0.37087	0.100	2.26928	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.06049	0.06049	0.005	-7.56610	20.0	Averaged	
Acetonitrile	0.04551	0.05056	0.05056	0.005	-11.10759	20.0	Averaged	
Allyl Chloride	0.86670	0.87296	0.87296	0.100	-0.72299	20.0	Averaged	
Iodomethane	100	97.52577	0.48681	0.100	2.47423	20.0	Quadratic	
Acrylonitrile	0.12870	0.13624	0.13624	0.050	-5.85506	20.0	Averaged	
Methylene Chloride	0.52052	0.46108	0.46108	0.100	11.41993	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.20628	1.20628	0.100	2.88453	20.0	Averaged	
Carbon Disulfide	0.99285	1.00276	1.00276	0.100	-0.99816	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.42585	0.42585	0.100	-0.27020	20.0	Averaged	
Vinyl Acetate	1.09037	1.16994	1.16994	0.010	-7.29743	20.0	Averaged	
1,1-Dichloroethane	0.74536	0.72542	0.72542	0.200	2.67573	20.0	Averaged	
Chloroprene	0.17001	0.16191	0.16191	0.100	4.76104	20.0	Averaged	
2-Butanone	100	102	0.15201	0.100	-2.08341	20.0	Linear	
Methacrylonitrile	0.35404	0.35218	0.35218	0.100	0.52474	20.0	Averaged	
2,2-Dichloropropane	0.63286	0.69770	0.69770	0.100	-10.24635	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.49013	0.49013	0.100	5.17118	20.0	Averaged	
Chloroform	0.83541	0.83191	0.83191	0.200	0.41905	20.0	Averaged	
Bromochloromethane	0.28299	0.25354	0.25354	0.100	10.40840	20.0	Averaged	
Dibromofluoromethane	50.0	48.88030	0.46938	0.100	2.23939	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.72976	0.72976	0.100	-10.09786	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.41724	0.41724	0.100	-17.54060	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.44375	0.44375	0.100	-8.32039	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.42419	0.42419	0.100	-11.90565	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	52.69913	0.53424	0.100	-5.39826	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 0739
Lab File ID X012502.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Benzene	1.19399	1.22740	1.22740	0.500	-2.79810	20.0	Averaged	
Trichloroethene	0.33865	0.36324	0.36324	0.200	-7.25914	20.0	Averaged	
Bromodichloromethane	0.44810	0.44597	0.44597	0.200	0.47499	20.0	Averaged	
Methyl Methacrylate	0.34093	0.36494	0.36494	0.100	-7.04448	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.14192	0.14192	0.001	-11.32375	20.0	Averaged	
1,2-Dichloropropane	0.31761	0.31157	0.31157	0.100	1.90004	20.0	Averaged	
2-Nitropropane	0.12626	0.13514	0.13514	0.000	-7.02835	20.0	Averaged	
Dibromomethane	0.21588	0.21030	0.21030	0.100	2.58559	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.27848	0.27848	0.100	-4.20204	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.54533	0.54533	0.200	-3.62519	20.0	Averaged	
Toluene-d8	1.23554	1.22580	1.22580	0.100	0.78807	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.24336	0.24336	0.100	-3.35899	20.0	Averaged	
Toluene	1.38201	1.41845	1.41845	0.400	-2.63662	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.47263	0.47263	0.100	-8.22138	20.0	Averaged	
2-Hexanone	0.18183	0.19301	0.19301	0.100	-6.14741	20.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.26668	0.26668	0.100	3.81508	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.54056	0.54056	0.100	0.94722	20.0	Averaged	
Dibromochloromethane	0.40016	0.39502	0.39502	0.100	1.28443	20.0	Averaged	
Tetrachloroethene	0.28594	0.32583	0.32583	0.200	-13.94737	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.35049	0.35049	0.100	-1.10808	20.0	Averaged	
1-Chlorohexane	0.24163	0.28460	0.28460	0.100	-17.78186	20.0	Averaged	
Chlorobenzene	0.98026	0.97639	0.97639	0.500	0.39464	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.37055	0.37055	0.100	-1.57739	20.0	Averaged	
Ethylbenzene	0.46175	0.51103	0.51103	0.100	-10.67167	20.0	Averaged	
m,p-Xylenes	0.59525	0.64386	0.64386	0.100	-8.16552	20.0	Averaged	
o-Xylene	0.58751	0.61350	0.61350	0.300	-4.42356	20.0	Averaged	
Styrene	0.98473	1.06380	1.06380	0.300	-8.02907	20.0	Averaged	
Bromoform	0.27722	0.27421	0.27421	0.100	1.08603	20.0	Averaged	
Isopropylbenzene	1.34224	1.60202	1.60202	0.100	-19.35461	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.75416	0.75416	0.300	5.36642	20.0	Averaged	
4-Bromofluorobenzene	50.0	52.41920	0.48420	0.100	-4.83841	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.57029	0.57029	0.100	-2.50508	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11796	0.11796	0.050	-9.28110	20.0	Averaged	
n-Propylbenzene	2.76956	3.31463	3.31463	0.100	-19.68095	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 0739
Lab File ID X012502.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromobenzene	0.82033	0.81789	0.81789	0.100	0.29660	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.40823	2.40823	0.100	-17.70682	20.0	Averaged	
2-Chlorotoluene	1.81741	1.99939	1.99939	0.100	-10.01276	20.0	Averaged	
4-Chlorotoluene	2.07183	2.33071	2.33071	0.100	-12.49548	20.0	Averaged	
tert-Butylbenzene	1.67475	2.02737	2.02737	0.100	-21.05485	20.0	Averaged	<-
1,2,4-Trimethylbenzene	2.15277	2.43774	2.43774	0.100	-13.23748	20.0	Averaged	
sec-Butylbenzene	2.22832	2.88310	2.88310	0.100	-29.38453	20.0	Averaged	<-
p-Isopropyltoluene	1.99679	2.55236	2.55236	0.100	-27.82324	20.0	Averaged	<-
1,3-Dichlorobenzene	1.36155	1.45687	1.45687	0.600	-7.00077	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.54570	1.54570	0.400	-4.03430	20.0	Averaged	
Benzyl Chloride	50.0	50.28936	0.78724	0.010	-0.57872	20.0	Linear	
n-Butylbenzene	50.0	59.35307	2.29763	0.500	-18.70615	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.43850	1.43850	0.400	-2.58491	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	50.62783	0.12901	0.040	-1.25566	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.04369	1.04369	0.100	-17.93847	20.0	Averaged	
Hexachlorobutadiene	50.0	62.29313	0.48999	0.100	-24.58626	20.0	Quadratic	<-
Naphthalene	2.01347	2.20027	2.20027	0.200	-9.27753	20.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.93294	0.93294	0.010	-10.07569	20.0	Averaged	
Methyl Acetate	0.22499	0.22497	0.22497	0.100	0.00627	20.0	Averaged	
Freon TF	0.36703	0.40197	0.40197	0.100	-9.51882	20.0	Averaged	
Cyclohexane	50.0	59.69943	0.60429	0.100	-19.39886	20.0	Linear	
Tetrahydrofuran	100	93.40801	0.05819	0.001	6.59199	20.0	Linear	
Methylcyclohexane	0.61204	0.72726	0.72726	0.100	-18.82572	20.0	Averaged	
1,4-Dioxane	0.00457	0.00494	0.00494	0.001	-8.18125	20.0	Averaged	
n-Butanol	1000	1006	0.00644	0.005	-0.60632	20.0	Quadratic	
Methyl Acrylate	0.33946	0.42900	0.42900	0.100	-26.37960	20.0	Averaged	<-
Ethyl Acrylate	50.0	55.77932	1.09721	0.100	-11.55865	20.0	Linear	
n-Hexane	0.36001	0.47714	0.47714	0.100	-32.53734	20.0	Averaged	<-
Diethyl ether	0.33409	0.28575	0.28575	0.100	14.46830	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.03645	0.03645	0.005	-5.27078	20.0	Averaged	
Isopropyl alcohol	0.01808	0.01973	0.01973	0.005	-9.11564	20.0	Averaged	
Diisopropyl ether	1.29704	1.29126	1.29126	0.100	0.44617	20.0	Averaged	
2-Methylnaphthalene	0.97007	1.02001	1.02001	0.100	-5.14844	20.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.56385	2.56385	0.100	-6.48314	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 0739
Lab File ID X012502.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Ethanol	1000	1007	0.00328	0.001	-0.72838	20.0	Linear	
tert-Butyl formate	0.26532	0.28579	0.28579	0.100	-7.71853	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.02366	0.02494	0.02494	0.005	-5.41990	20.0	Averaged	
tert-Amyl methyl ether	1.44127	1.39324	1.39324	0.005	3.33273	20.0	Averaged	
tert-Butyl ethyl ether	1.37823	1.35600	1.35600	0.100	1.61264	20.0	Averaged	
tert-Amyl alcohol	0.02685	0.02858	0.02858	0.005	-6.42698	20.0	Averaged	
4-Methyl-2-pentanol	0.04732	0.05008	0.05008	0.005	-5.83268	20.0	Averaged	
1-Methylnaphthalene	++++	1.02001	1.02001	0.100	++++	20.0	Averaged	<-
1,3-Butadiene	0.34316	0.33019	0.33019	0.100	3.78013	20.0	Averaged	
Amyl alcohol	0.00494	0.00510	0.00510	0.005	-3.05976	20.0	Averaged	<-
Dichlorofluoromethane	0.06474	0.05600	0.05600	0.100	13.49876	20.0	Averaged	<-
Propylene oxide	0.03144	0.02922	0.02922	0.005	7.06551	20.0	Averaged	
3-Methyl-1-butanol	0.00494	0.00556	0.00556	0.005	-12.51591	20.0	Averaged	<-
Butyl acrylate	0.65314	0.70132	0.70132	0.100	-7.37756	20.0	Averaged	
Epichlorohydrin	200	211	0.02364	0.001	-5.50467	20.0	Linear	
1,2-Dichloroethylene (total	0.47078	0.45799	0.45799	0.200	2.71678	20.0	Averaged	
Xylenes (total)	0.56589	0.61132	0.61132	0.100	-8.02675	20.0	Averaged	
alpha-Methylstyrene	1.10787	1.14713	1.14713	0.100	-3.54415	20.0	Averaged	
Ethyl Acetate	0.39016	0.39139	0.39139	0.100	-0.31559	20.0	Averaged	
Cyclohexanone	0.02086	0.02473	0.02473	0.005	-18.55217	20.0	Averaged	
Isoprene	0.13320	0.13989	0.13989	0.100	-5.02463	20.0	Averaged	
Isopentane	++++	0.26266	0.26266	0.100	++++	20.0	Averaged	<-
Isopropyl acetate	0.77682	0.82473	0.82473	0.100	-6.16825	20.0	Averaged	
n-Amyl acetate	0.58303	0.59270	0.59270	0.100	-1.65717	20.0	Averaged	
n-Butyl acetate	0.42951	0.47919	0.47919	0.100	-11.56593	20.0	Averaged	
Allyl alcohol	0.01838	0.02386	0.02386	0.004	-29.81474	20.0	Averaged	<-
Acetaldehyde	200	178	0.02854	0.001	11.04492	20.0	Linear	
Methyl Amyl Ketone	0.66478	0.68236	0.68236	0.100	-2.64571	20.0	Averaged	
Dimethyl Disulfide	0.67671	0.67380	0.67380	0.100	0.42870	20.0	Averaged	
2-Ethyl-1-hexanol	++++	0.00048	0.00048	0.001	++++	20.0	Averaged	<-
Isobutylene	0.05199	++++	5.923e+59	0.100	++++	20.0	Averaged	<-
1-Propanol	0.00817	0.00751	0.00751	0.005	8.09206	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 1500
Lab File ID X012522.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	42.55407	0.29721	0.100	14.89187	50.0	Linear	
Chloromethane	50.0	43.51269	0.39097	0.100	12.97461	50.0	Linear	
Propionitrile	0.05102	0.05154	0.05154	0.010	-1.01486	50.0	Averaged	
Vinyl Chloride	0.43678	0.41405	0.41405	0.100	5.20455	50.0	Averaged	
Bromomethane	50.0	45.74369	0.30121	0.100	8.51262	50.0	Linear	
Chloroethane	0.30401	0.26717	0.26717	0.100	12.11669	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.64252	0.64252	0.100	-5.11971	50.0	Averaged	
Acrolein	100	88.92443	0.03030	0.010	11.07557	50.0	Linear	
Acetone	100	88.00826	0.12348	0.100	11.99174	50.0	Linear	
1,1-Dichloroethene	0.37948	0.35954	0.35954	0.100	5.25320	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.06200	0.06200	0.005	-10.24009	50.0	Averaged	
Acetonitrile	0.04551	0.04867	0.04867	0.005	-6.95600	50.0	Averaged	
Allyl Chloride	0.86670	0.86616	0.86616	0.100	0.06154	50.0	Averaged	
Iodomethane	100	91.44282	0.45415	0.100	8.55718	50.0	Quadratic	
Acrylonitrile	0.12870	0.13711	0.13711	0.050	-6.53054	50.0	Averaged	
Methylene Chloride	0.52052	0.46701	0.46701	0.100	10.27922	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.20402	1.20402	0.100	3.06655	50.0	Averaged	
Carbon Disulfide	0.99285	0.97715	0.97715	0.100	1.58154	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.41492	0.41492	0.100	2.30352	50.0	Averaged	
Vinyl Acetate	1.09037	1.11169	1.11169	0.010	-1.95572	50.0	Averaged	
1,1-Dichloroethane	0.74536	0.70676	0.70676	0.200	5.17866	50.0	Averaged	
Chloroprene	0.17001	0.15715	0.15715	0.100	7.56348	50.0	Averaged	
2-Butanone	100	100	0.14873	0.100	0.05435	50.0	Linear	
Methacrylonitrile	0.35404	0.36464	0.36464	0.100	-2.99202	50.0	Averaged	
2,2-Dichloropropane	0.63286	0.63147	0.63147	0.100	0.21835	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.47542	0.47542	0.100	8.01745	50.0	Averaged	
Chloroform	0.83541	0.81347	0.81347	0.200	2.62691	50.0	Averaged	
Bromochloromethane	0.28299	0.25373	0.25373	0.100	10.33897	50.0	Averaged	
Dibromofluoromethane	50.0	47.28488	0.45411	0.100	5.43024	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.72268	0.72268	0.100	-9.02950	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.41299	0.41299	0.100	-16.34412	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.43354	0.43354	0.100	-5.82775	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.40990	0.40990	0.100	-8.13415	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	52.07942	0.52793	0.100	-4.15885	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 1500
Lab File ID X012522.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Benzene	1.19399	1.21073	1.21073	0.500	-1.40210	50.0	Averaged	
Trichloroethene	0.33865	0.35917	0.35917	0.200	-6.05906	50.0	Averaged	
Bromodichloromethane	0.44810	0.44150	0.44150	0.200	1.47104	50.0	Averaged	
Methyl Methacrylate	0.34093	0.37488	0.37488	0.100	-9.95795	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.14171	0.14171	0.001	-11.16356	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.30613	0.30613	0.100	3.61324	50.0	Averaged	
2-Nitropropane	0.12626	0.13481	0.13481	0.000	-6.76700	50.0	Averaged	
Dibromomethane	0.21588	0.20618	0.20618	0.100	4.49382	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.28037	0.28037	0.100	-4.90854	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.52717	0.52717	0.200	-0.17453	50.0	Averaged	
Toluene-d8	1.23554	1.19389	1.19389	0.100	3.37052	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.25534	0.25534	0.100	-8.44544	50.0	Averaged	
Toluene	1.38201	1.40751	1.40751	0.400	-1.84490	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.45573	0.45573	0.100	-4.35116	50.0	Averaged	
2-Hexanone	0.18183	0.19478	0.19478	0.100	-7.12446	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.26499	0.26499	0.100	4.42505	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.53112	0.53112	0.100	2.67686	50.0	Averaged	
Dibromochloromethane	0.40016	0.39207	0.39207	0.100	2.02053	50.0	Averaged	
Tetrachloroethene	0.28594	0.31766	0.31766	0.200	-11.09334	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.34891	0.34891	0.100	-0.65024	50.0	Averaged	
1-Chlorohexane	0.24163	0.30084	0.30084	0.100	-24.50223	50.0	Averaged	
Chlorobenzene	0.98026	0.96409	0.96409	0.500	1.64941	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.36867	0.36867	0.100	-1.06044	50.0	Averaged	
Ethylbenzene	0.46175	0.49914	0.49914	0.100	-8.09753	50.0	Averaged	
m,p-Xylenes	0.59525	0.63668	0.63668	0.100	-6.96059	50.0	Averaged	
o-Xylene	0.58751	0.60433	0.60433	0.300	-2.86410	50.0	Averaged	
Styrene	0.98473	1.04640	1.04640	0.300	-6.26203	50.0	Averaged	
Bromoform	0.27722	0.27482	0.27482	0.100	0.86545	50.0	Averaged	
Isopropylbenzene	1.34224	1.58513	1.58513	0.100	-18.09591	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.73487	0.73487	0.300	7.78753	50.0	Averaged	
4-Bromofluorobenzene	50.0	50.99162	0.47100	0.100	-1.98325	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.81153	0.81153	0.100	-45.86546	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11652	0.11652	0.050	-7.95382	50.0	Averaged	
n-Propylbenzene	2.76956	3.19533	3.19533	0.100	-15.37322	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 1500
Lab File ID X012522.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromobenzene	0.82033	0.79943	0.79943	0.100	2.54710	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.33869	2.33869	0.100	-14.30786	50.0	Averaged	
2-Chlorotoluene	1.81741	1.92649	1.92649	0.100	-6.00190	50.0	Averaged	
4-Chlorotoluene	2.07183	2.26708	2.26708	0.100	-9.42434	50.0	Averaged	
tert-Butylbenzene	1.67475	1.97537	1.97537	0.100	-17.95030	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.35788	2.35788	0.100	-9.52788	50.0	Averaged	
sec-Butylbenzene	2.22832	2.78791	2.78791	0.100	-25.11301	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.46875	2.46875	0.100	-23.63640	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.42075	1.42075	0.600	-4.34804	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.48497	1.48497	0.400	0.05340	50.0	Averaged	
Benzyl Chloride	50.0	44.33656	0.68878	0.010	11.32689	50.0	Linear	
n-Butylbenzene	50.0	56.35085	2.17783	0.500	-12.70169	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.40978	1.40978	0.400	-0.53664	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	50.63512	0.12903	0.040	-1.27024	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	0.99778	0.99778	0.100	-12.75082	50.0	Averaged	
Hexachlorobutadiene	50.0	57.37873	0.45083	0.100	-14.75745	50.0	Quadratic	
Naphthalene	2.01347	2.18456	2.18456	0.200	-8.49754	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.90862	0.90862	0.010	-7.20535	50.0	Averaged	
Methyl Acetate	0.22499	0.23243	0.23243	0.100	-3.30837	50.0	Averaged	
Freon TF	0.36703	0.38104	0.38104	0.100	-3.81573	50.0	Averaged	
Cyclohexane	50.0	58.82577	0.59526	0.100	-17.65155	50.0	Linear	
Tetrahydrofuran	100	95.64069	0.05953	0.001	4.35931	50.0	Linear	
Methylcyclohexane	0.61204	0.73804	0.73804	0.100	-20.58657	50.0	Averaged	
1,4-Dioxane	0.00457	0.00495	0.00495	0.001	-8.31484	50.0	Averaged	
n-Butanol	1000	1013	0.00649	0.005	-1.31806	50.0	Quadratic	
Methyl Acrylate	0.33946	0.43501	0.43501	0.100	-28.15027	50.0	Averaged	
Ethyl Acrylate	50.0	55.93940	1.10047	0.100	-11.87880	50.0	Linear	
n-Hexane	0.36001	0.43980	0.43980	0.100	-22.16460	50.0	Averaged	
Diethyl ether	0.33409	0.28594	0.28594	0.100	14.41256	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.03810	0.03810	0.005	-10.04850	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02053	0.02053	0.005	-13.56394	50.0	Averaged	
Diisopropyl ether	1.29704	1.29060	1.29060	0.100	0.49717	50.0	Averaged	
2-Methylnaphthalene	0.97007	0.99379	0.99379	0.100	-2.44523	50.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.49497	2.49497	0.100	-3.62205	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426481

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 25-JAN-2023 1500
Lab File ID X012522.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Ethanol	1000	1067	0.00347	0.001	-6.69503	50.0	Linear	
tert-Butyl formate	0.26532	0.29803	0.29803	0.100	-12.32887	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.02366	0.02457	0.02457	0.005	-3.87142	50.0	Averaged	
tert-Amyl methyl ether	1.44127	1.41184	1.41184	0.005	2.04190	50.0	Averaged	
tert-Butyl ethyl ether	1.37823	1.35617	1.35617	0.100	1.60071	50.0	Averaged	
tert-Amyl alcohol	0.02685	0.02980	0.02980	0.005	-10.98204	50.0	Averaged	
4-Methyl-2-pentanol	0.04732	0.05125	0.05125	0.005	-8.30006	50.0	Averaged	
1-Methylnaphthalene	++++	0.99379	0.99379	0.100	++++	50.0	Averaged	<-
1,3-Butadiene	0.34316	0.31601	0.31601	0.100	7.91020	50.0	Averaged	
Amyl alcohol	0.00494	0.00534	0.00534	0.005	-7.90640	50.0	Averaged	
Dichlorofluoromethane	0.06474	0.05780	0.05780	0.100	10.71467	50.0	Averaged	
Propylene oxide	0.03144	0.02982	0.02982	0.005	5.14355	50.0	Averaged	
3-Methyl-1-butanol	0.00494	0.00558	0.00558	0.005	-12.88255	50.0	Averaged	
Butyl acrylate	0.65314	0.69339	0.69339	0.100	-6.16285	50.0	Averaged	
Epichlorohydrin	200	216	0.02425	0.001	-8.18238	50.0	Linear	
1,2-Dichloroethylene (total	0.47078	0.44517	0.44517	0.200	5.44010	50.0	Averaged	
Xylenes (total)	0.56589	0.60790	0.60790	0.100	-7.42221	50.0	Averaged	
alpha-Methylstyrene	1.10787	1.11388	1.11388	0.100	-0.54279	50.0	Averaged	
Ethyl Acetate	0.39016	0.42840	0.42840	0.100	-9.80120	50.0	Averaged	
Cyclohexanone	0.02086	0.02306	0.02306	0.005	-10.57111	50.0	Averaged	
Isoprene	0.13320	0.13818	0.13818	0.100	-3.73648	50.0	Averaged	
Isopentane	++++	0.24298	0.24298	0.100	++++	50.0	Averaged	<-
Isopropyl acetate	0.77682	0.83340	0.83340	0.100	-7.28345	50.0	Averaged	
n-Amyl acetate	0.58303	0.58946	0.58946	0.100	-1.10206	50.0	Averaged	
n-Butyl acetate	0.42951	0.48167	0.48167	0.100	-12.14347	50.0	Averaged	
Allyl alcohol	0.01838	0.02199	0.02199	0.004	-19.65508	50.0	Averaged	
Acetaldehyde	200	210	0.03307	0.001	-4.93122	50.0	Linear	
Methyl Amyl Ketone	0.66478	0.67365	0.67365	0.100	-1.33472	50.0	Averaged	
Dimethyl Disulfide	0.67671	0.66883	0.66883	0.100	1.16367	50.0	Averaged	
2-Ethyl-1-hexanol	++++	0.00038	0.00038	0.001	++++	50.0	Averaged	<-
Isobutylene	0.05199	++++	5.923e+59	0.100	++++	50.0	Averaged	<-
1-Propanol	0.00817	0.00742	0.00742	0.005	9.14792	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 0824
Lab File ID X012602.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	42.29552	0.29539	0.100	15.40897	20.0	Linear	
Chloromethane	50.0	43.75326	0.39325	0.100	12.49348	20.0	Linear	
Propionitrile	0.05102	0.04959	0.04959	0.010	2.79809	20.0	Averaged	
Vinyl Chloride	0.43678	0.40952	0.40952	0.100	6.23957	20.0	Averaged	
Bromomethane	50.0	42.06902	0.27604	0.100	15.86196	20.0	Linear	
Chloroethane	0.30401	0.25706	0.25706	0.100	15.44419	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.62013	0.62013	0.100	-1.45613	20.0	Averaged	
Acrolein	100	88.68840	0.03021	0.010	11.31160	20.0	Linear	
Acetone	100	80.68339	0.11320	0.100	19.31661	20.0	Linear	
1,1-Dichloroethene	0.37948	0.35928	0.35928	0.100	5.32212	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.06030	0.06030	0.005	-7.22012	20.0	Averaged	
Acetonitrile	0.04551	0.04759	0.04759	0.005	-4.57839	20.0	Averaged	
Allyl Chloride	0.86670	0.85588	0.85588	0.100	1.24811	20.0	Averaged	
Iodomethane	100	99	0.49501	0.100	0.95253	20.0	Quadratic	
Acrylonitrile	0.12870	0.13178	0.13178	0.050	-2.39072	20.0	Averaged	
Methylene Chloride	0.52052	0.46257	0.46257	0.100	11.13259	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.19381	1.19381	0.100	3.88816	20.0	Averaged	
Carbon Disulfide	0.99285	1.00312	1.00312	0.100	-1.03396	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.42317	0.42317	0.100	0.36165	20.0	Averaged	
Vinyl Acetate	1.09037	1.14986	1.14986	0.010	-5.45674	20.0	Averaged	
1,1-Dichloroethane	0.74536	0.72980	0.72980	0.200	2.08802	20.0	Averaged	
Chloroprene	0.17001	0.15844	0.15844	0.100	6.80394	20.0	Averaged	
2-Butanone	100	94.91203	0.14101	0.100	5.08797	20.0	Linear	
Methacrylonitrile	0.35404	0.34154	0.34154	0.100	3.53205	20.0	Averaged	
2,2-Dichloropropane	0.63286	0.70484	0.70484	0.100	-11.37443	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.48334	0.48334	0.100	6.48494	20.0	Averaged	
Chloroform	0.83541	0.82145	0.82145	0.200	1.67149	20.0	Averaged	
Bromochloromethane	0.28299	0.25429	0.25429	0.100	10.14185	20.0	Averaged	
Dibromofluoromethane	50.0	46.46093	0.44623	0.100	7.07814	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.73124	0.73124	0.100	-10.32202	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.42442	0.42442	0.100	-19.56229	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.43909	0.43909	0.100	-7.18192	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.41918	0.41918	0.100	-10.58446	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	50.59043	0.51275	0.100	-1.18085	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 0824
Lab File ID X012602.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Benzene	1.19399	1.21322	1.21322	0.500	-1.61036	20.0	Averaged	
Trichloroethene	0.33865	0.35936	0.35936	0.200	-6.11559	20.0	Averaged	
Bromodichloromethane	0.44810	0.44514	0.44514	0.200	0.65971	20.0	Averaged	
Methyl Methacrylate	0.34093	0.35637	0.35637	0.100	-4.52948	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.14090	0.14090	0.001	-10.52376	20.0	Averaged	
1,2-Dichloropropane	0.31761	0.31273	0.31273	0.100	1.53492	20.0	Averaged	
2-Nitropropane	0.12626	0.13394	0.13394	0.000	-6.07878	20.0	Averaged	
Dibromomethane	0.21588	0.20799	0.20799	0.100	3.65550	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.27897	0.27897	0.100	-4.38540	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.54631	0.54631	0.200	-3.81205	20.0	Averaged	
Toluene-d8	1.23554	1.18485	1.18485	0.100	4.10235	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.23407	0.23407	0.100	0.58604	20.0	Averaged	
Toluene	1.38201	1.42211	1.42211	0.400	-2.90121	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.47120	0.47120	0.100	-7.89390	20.0	Averaged	
2-Hexanone	0.18183	0.19373	0.19373	0.100	-6.54412	20.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.26493	0.26493	0.100	4.44600	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.53941	0.53941	0.100	1.15840	20.0	Averaged	
Dibromochloromethane	0.40016	0.40145	0.40145	0.100	-0.32319	20.0	Averaged	
Tetrachloroethene	0.28594	0.32250	0.32250	0.200	-12.78592	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.35227	0.35227	0.100	-1.62152	20.0	Averaged	
1-Chlorohexane	0.24163	0.27437	0.27437	0.100	-13.54889	20.0	Averaged	
Chlorobenzene	0.98026	0.97590	0.97590	0.500	0.44387	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.37157	0.37157	0.100	-1.85502	20.0	Averaged	
Ethylbenzene	0.46175	0.50774	0.50774	0.100	-9.95873	20.0	Averaged	
m,p-Xylenes	0.59525	0.63981	0.63981	0.100	-7.48544	20.0	Averaged	
o-Xylene	0.58751	0.61406	0.61406	0.300	-4.52016	20.0	Averaged	
Styrene	0.98473	1.05733	1.05733	0.300	-7.37168	20.0	Averaged	
Bromoform	0.27722	0.27640	0.27640	0.100	0.29839	20.0	Averaged	
Isopropylbenzene	1.34224	1.59119	1.59119	0.100	-18.54761	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.75640	0.75640	0.300	5.08515	20.0	Averaged	
4-Bromofluorobenzene	50.0	50.98603	0.47094	0.100	-1.97207	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.57286	0.57286	0.100	-2.96619	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11554	0.11554	0.050	-7.04259	20.0	Averaged	
n-Propylbenzene	2.76956	3.27719	3.27719	0.100	-18.32910	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 0824
Lab File ID X012602.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromobenzene	0.82033	0.82078	0.82078	0.100	-0.05543	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.42737	2.42737	0.100	-18.64225	20.0	Averaged	
2-Chlorotoluene	1.81741	2.00768	2.00768	0.100	-10.46920	20.0	Averaged	
4-Chlorotoluene	2.07183	2.35482	2.35482	0.100	-13.65911	20.0	Averaged	
tert-Butylbenzene	1.67475	1.98556	1.98556	0.100	-18.55849	20.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.44290	2.44290	0.100	-13.47738	20.0	Averaged	
sec-Butylbenzene	2.22832	2.87075	2.87075	0.100	-28.83022	20.0	Averaged	<-
p-Isopropyltoluene	1.99679	2.56533	2.56533	0.100	-28.47289	20.0	Averaged	<-
1,3-Dichlorobenzene	1.36155	1.46414	1.46414	0.600	-7.53438	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.52950	1.52950	0.400	-2.94362	20.0	Averaged	
Benzyl Chloride	50.0	50.41923	0.78939	0.010	-0.83845	20.0	Linear	
n-Butylbenzene	50.0	59.60555	2.30771	0.500	-19.21111	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.43927	1.43927	0.400	-2.63995	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	50.03656	0.12750	0.040	-0.07312	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.03877	1.03877	0.100	-17.38289	20.0	Averaged	
Hexachlorobutadiene	50.0	59.13016	0.46478	0.100	-18.26032	20.0	Quadratic	
Naphthalene	2.01347	2.19322	2.19322	0.200	-8.92731	20.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.92627	0.92627	0.010	-9.28788	20.0	Averaged	
Methyl Acetate	0.22499	0.23681	0.23681	0.100	-5.25384	20.0	Averaged	
Freon TF	0.36703	0.38624	0.38624	0.100	-5.23468	20.0	Averaged	
Cyclohexane	50.0	58.98619	0.59691	0.100	-17.97237	20.0	Linear	
Tetrahydrofuran	100	90.37306	0.05636	0.001	9.62694	20.0	Linear	
Methylcyclohexane	0.61204	0.72971	0.72971	0.100	-19.22511	20.0	Averaged	
1,4-Dioxane	0.00457	0.00485	0.00485	0.001	-6.15112	20.0	Averaged	
n-Butanol	1000	1008	0.00645	0.005	-0.83678	20.0	Quadratic	
Methyl Acrylate	0.33946	0.36259	0.36259	0.100	-6.81437	20.0	Averaged	
Ethyl Acrylate	50.0	54.65320	1.07431	0.100	-9.30640	20.0	Linear	
n-Hexane	0.36001	0.48128	0.48128	0.100	-33.68608	20.0	Averaged	<-
Diethyl ether	0.33409	0.27711	0.27711	0.100	17.05397	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.03789	0.03789	0.005	-9.45458	20.0	Averaged	
Isopropyl alcohol	0.01808	0.02032	0.02032	0.005	-12.39872	20.0	Averaged	
Diisopropyl ether	1.29704	1.24871	1.24871	0.100	3.72681	20.0	Averaged	
2-Methylnaphthalene	0.97007	1.01255	1.01255	0.100	-4.37880	20.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.48304	2.48304	0.100	-3.12667	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 0824
Lab File ID X012602.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Ethanol	1000	970	0.00316	0.001	2.97056	20.0	Linear	
tert-Butyl formate	0.26532	0.28947	0.28947	0.100	-9.10317	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.02366	0.02440	0.02440	0.005	-3.15391	20.0	Averaged	
tert-Amyl methyl ether	1.44127	1.35888	1.35888	0.005	5.71680	20.0	Averaged	
tert-Butyl ethyl ether	1.37823	1.33113	1.33113	0.100	3.41761	20.0	Averaged	
tert-Amyl alcohol	0.02685	0.02895	0.02895	0.005	-7.79502	20.0	Averaged	
4-Methyl-2-pentanol	0.04732	0.04863	0.04863	0.005	-2.76844	20.0	Averaged	
1-Methylnaphthalene	++++	1.01255	1.01255	0.100	++++	20.0	Averaged	<-
1,3-Butadiene	0.34316	0.32284	0.32284	0.100	5.92024	20.0	Averaged	
Amyl alcohol	0.00494	0.00514	0.00514	0.005	-3.98570	20.0	Averaged	<-
Dichlorofluoromethane	0.06474	0.05373	0.05373	0.100	17.00586	20.0	Averaged	<-
Propylene oxide	0.03144	0.02822	0.02822	0.005	10.25946	20.0	Averaged	
3-Methyl-1-butanol	0.00494	0.00575	0.00575	0.005	-16.38701	20.0	Averaged	<-
Butyl acrylate	0.65314	0.68663	0.68663	0.100	-5.12754	20.0	Averaged	
Epichlorohydrin	200	210	0.02347	0.001	-4.76388	20.0	Linear	
1,2-Dichloroethylene (total	0.47078	0.45325	0.45325	0.200	3.72295	20.0	Averaged	
Xylenes (total)	0.56589	0.60396	0.60396	0.100	-6.72622	20.0	Averaged	
alpha-Methylstyrene	1.10787	1.15119	1.15119	0.100	-3.91076	20.0	Averaged	
Ethyl Acetate	0.39016	0.41123	0.41123	0.100	-5.40068	20.0	Averaged	
Cyclohexanone	0.02086	0.02262	0.02262	0.005	-8.47072	20.0	Averaged	
Isoprene	0.13320	0.13611	0.13611	0.100	-2.18392	20.0	Averaged	
Isopentane	++++	0.23943	0.23943	0.100	++++	20.0	Averaged	<-
Isopropyl acetate	0.77682	0.81992	0.81992	0.100	-5.54804	20.0	Averaged	
n-Amyl acetate	0.58303	0.59091	0.59091	0.100	-1.35028	20.0	Averaged	
n-Butyl acetate	0.42951	0.48765	0.48765	0.100	-13.53707	20.0	Averaged	
Allyl alcohol	0.01838	0.02406	0.02406	0.004	-30.93988	20.0	Averaged	<-
Acetaldehyde	200	177	0.02836	0.001	11.68728	20.0	Linear	
Methyl Amyl Ketone	0.66478	0.64663	0.64663	0.100	2.72899	20.0	Averaged	
Dimethyl Disulfide	0.67671	0.66344	0.66344	0.100	1.96030	20.0	Averaged	
2-Ethyl-1-hexanol	++++	0.00049	0.00049	0.001	++++	20.0	Averaged	<-
Isobutylene	0.05199	++++	9.389e+63	0.100	++++	20.0	Averaged	<-
1-Propanol	0.00817	0.00729	0.00729	0.005	10.73738	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 1812
Lab File ID X012629.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	43.64576	0.30491	0.100	12.70848	50.0	Linear	
Chloromethane	50.0	44.19085	0.39739	0.100	11.61829	50.0	Linear	
Propionitrile	0.05102	0.05082	0.05082	0.010	0.38075	50.0	Averaged	
Vinyl Chloride	0.43678	0.40205	0.40205	0.100	7.95044	50.0	Averaged	
Bromomethane	50.0	44.37853	0.29186	0.100	11.24295	50.0	Linear	
Chloroethane	0.30401	0.25815	0.25815	0.100	15.08517	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.63843	0.63843	0.100	-4.45112	50.0	Averaged	
Acrolein	100	87.32221	0.02973	0.010	12.67779	50.0	Linear	
Acetone	100	93.45185	0.13111	0.100	6.54815	50.0	Linear	
1,1-Dichloroethene	0.37948	0.37217	0.37217	0.100	1.92555	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.06085	0.06085	0.005	-8.20700	50.0	Averaged	
Acetonitrile	0.04551	0.04906	0.04906	0.005	-7.81373	50.0	Averaged	
Allyl Chloride	0.86670	0.86751	0.86751	0.100	-0.09410	50.0	Averaged	
Iodomethane	100	94.87601	0.47256	0.100	5.12399	50.0	Quadratic	
Acrylonitrile	0.12870	0.13437	0.13437	0.050	-4.40523	50.0	Averaged	
Methylene Chloride	0.52052	0.48334	0.48334	0.100	7.14325	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.21980	1.21980	0.100	1.79585	50.0	Averaged	
Carbon Disulfide	0.99285	1.02239	1.02239	0.100	-2.97529	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.42973	0.42973	0.100	-1.18451	50.0	Averaged	
Vinyl Acetate	1.09037	1.06519	1.06519	0.010	2.30932	50.0	Averaged	
1,1-Dichloroethane	0.74536	0.75107	0.75107	0.200	-0.76580	50.0	Averaged	
Chloroprene	0.17001	0.16001	0.16001	0.100	5.88275	50.0	Averaged	
2-Butanone	100	100	0.14808	0.100	0.47705	50.0	Linear	
Methacrylonitrile	0.35404	0.34963	0.34963	0.100	1.24606	50.0	Averaged	
2,2-Dichloropropane	0.63286	0.64450	0.64450	0.100	-1.83928	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.50716	0.50716	0.100	1.87661	50.0	Averaged	
Chloroform	0.83541	0.85666	0.85666	0.200	-2.54312	50.0	Averaged	
Bromochloromethane	0.28299	0.26275	0.26275	0.100	7.15163	50.0	Averaged	
Dibromofluoromethane	50.0	47.45779	0.45577	0.100	5.08441	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.75128	0.75128	0.100	-13.34443	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.41747	0.41747	0.100	-17.60419	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.44792	0.44792	0.100	-9.33671	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.42570	0.42570	0.100	-12.30227	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	52.29395	0.53011	0.100	-4.58790	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 1812
Lab File ID X012629.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Benzene	1.19399	1.22123	1.22123	0.500	-2.28147	50.0	Averaged	
Trichloroethene	0.33865	0.36694	0.36694	0.200	-8.35246	50.0	Averaged	
Bromodichloromethane	0.44810	0.45023	0.45023	0.200	-0.47691	50.0	Averaged	
Methyl Methacrylate	0.34093	0.37788	0.37788	0.100	-10.83755	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.13987	0.13987	0.001	-9.71791	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.31211	0.31211	0.100	1.73199	50.0	Averaged	
2-Nitropropane	0.12626	0.13380	0.13380	0.000	-5.96798	50.0	Averaged	
Dibromomethane	0.21588	0.21013	0.21013	0.100	2.66348	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.27937	0.27937	0.100	-4.53396	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.53154	0.53154	0.200	-1.00578	50.0	Averaged	
Toluene-d8	1.23554	1.16617	1.16617	0.100	5.61400	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.24125	0.24125	0.100	-2.46224	50.0	Averaged	
Toluene	1.38201	1.43623	1.43623	0.400	-3.92327	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.46215	0.46215	0.100	-5.82029	50.0	Averaged	
2-Hexanone	0.18183	0.19553	0.19553	0.100	-7.53330	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.26701	0.26701	0.100	3.69593	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.54115	0.54115	0.100	0.83863	50.0	Averaged	
Dibromochloromethane	0.40016	0.39979	0.39979	0.100	0.09222	50.0	Averaged	
Tetrachloroethene	0.28594	0.32705	0.32705	0.200	-14.37469	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.35265	0.35265	0.100	-1.73105	50.0	Averaged	
1-Chlorohexane	0.24163	0.29315	0.29315	0.100	-21.32201	50.0	Averaged	
Chlorobenzene	0.98026	0.97567	0.97567	0.500	0.46812	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.37243	0.37243	0.100	-2.09264	50.0	Averaged	
Ethylbenzene	0.46175	0.50832	0.50832	0.100	-10.08556	50.0	Averaged	
m,p-Xylenes	0.59525	0.64092	0.64092	0.100	-7.67281	50.0	Averaged	
o-Xylene	0.58751	0.61573	0.61573	0.300	-4.80377	50.0	Averaged	
Styrene	0.98473	1.06415	1.06415	0.300	-8.06431	50.0	Averaged	
Bromoform	0.27722	0.27279	0.27279	0.100	1.60024	50.0	Averaged	
Isopropylbenzene	1.34224	1.59972	1.59972	0.100	-19.18274	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.73518	0.73518	0.300	7.74820	50.0	Averaged	
4-Bromofluorobenzene	50.0	50.37371	0.46528	0.100	-0.74741	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.61371	0.61371	0.100	-10.30832	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11079	0.11079	0.050	-2.64512	50.0	Averaged	
n-Propylbenzene	2.76956	3.26776	3.26776	0.100	-17.98841	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 1812
Lab File ID X012629.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromobenzene	0.82033	0.81979	0.81979	0.100	0.06563	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.38096	2.38096	0.100	-16.37357	50.0	Averaged	
2-Chlorotoluene	1.81741	1.97876	1.97876	0.100	-8.87782	50.0	Averaged	
4-Chlorotoluene	2.07183	2.31028	2.31028	0.100	-11.50938	50.0	Averaged	
tert-Butylbenzene	1.67475	2.02182	2.02182	0.100	-20.72372	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.39767	2.39767	0.100	-11.37644	50.0	Averaged	
sec-Butylbenzene	2.22832	2.84271	2.84271	0.100	-27.57218	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.51858	2.51858	0.100	-26.13157	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.44840	1.44840	0.600	-6.37855	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.51793	1.51793	0.400	-2.16516	50.0	Averaged	
Benzyl Chloride	50.0	40.31447	0.62225	0.010	19.37106	50.0	Linear	
n-Butylbenzene	50.0	56.96510	2.20234	0.500	-13.93020	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.43070	1.43070	0.400	-2.02880	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.43865	0.12342	0.040	3.12270	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	0.98853	0.98853	0.100	-11.70570	50.0	Averaged	
Hexachlorobutadiene	50.0	56.51600	0.44396	0.100	-13.03199	50.0	Quadratic	
Naphthalene	2.01347	2.10587	2.10587	0.200	-4.58947	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.89053	0.89053	0.010	-5.07137	50.0	Averaged	
Methyl Acetate	0.22499	0.23722	0.23722	0.100	-5.43457	50.0	Averaged	
Freon TF	0.36703	0.39859	0.39859	0.100	-8.59857	50.0	Averaged	
Cyclohexane	50.0	61.15786	0.61937	0.100	-22.31572	50.0	Linear	
Tetrahydrofuran	100	96.96792	0.06033	0.001	3.03208	50.0	Linear	
Methylcyclohexane	0.61204	0.71285	0.71285	0.100	-16.47136	50.0	Averaged	
1,4-Dioxane	0.00457	0.00514	0.00514	0.001	-12.42447	50.0	Averaged	
n-Butanol	1000	982	0.00627	0.005	1.82811	50.0	Quadratic	
Methyl Acrylate	0.33946	0.39873	0.39873	0.100	-17.46123	50.0	Averaged	
Ethyl Acrylate	50.0	54.77967	1.07688	0.100	-9.55934	50.0	Linear	
n-Hexane	0.36001	0.44194	0.44194	0.100	-22.76031	50.0	Averaged	
Diethyl ether	0.33409	0.27288	0.27288	0.100	18.32171	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.03886	0.03886	0.005	-12.25126	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02100	0.02100	0.005	-16.12847	50.0	Averaged	
Diisopropyl ether	1.29704	1.28435	1.28435	0.100	0.97834	50.0	Averaged	
2-Methylnaphthalene	0.97007	0.82829	0.82829	0.100	14.61491	50.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.47102	2.47102	0.100	-2.62754	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426583

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 26-JAN-2023 1812
Lab File ID X012629.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Ethanol	1000	980	0.00319	0.001	1.96362	50.0	Linear	
tert-Butyl formate	0.26532	0.29934	0.29934	0.100	-12.82421	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.02366	0.02351	0.02351	0.005	0.64168	50.0	Averaged	
tert-Amyl methyl ether	1.44127	1.42039	1.42039	0.005	1.44895	50.0	Averaged	
tert-Butyl ethyl ether	1.37823	1.36286	1.36286	0.100	1.11505	50.0	Averaged	
tert-Amyl alcohol	0.02685	0.02993	0.02993	0.005	-11.47145	50.0	Averaged	
4-Methyl-2-pentanol	0.04732	0.04832	0.04832	0.005	-2.10830	50.0	Averaged	
1-Methylnaphthalene	++++	0.82829	0.82829	0.100	++++	50.0	Averaged	<-
1,3-Butadiene	0.34316	0.30864	0.30864	0.100	10.06016	50.0	Averaged	
Amyl alcohol	0.00494	0.00486	0.00486	0.005	1.68727	50.0	Averaged	
Dichlorofluoromethane	0.06474	0.05424	0.05424	0.100	16.22426	50.0	Averaged	
Propylene oxide	0.03144	0.02753	0.02753	0.005	12.42913	50.0	Averaged	
3-Methyl-1-butanol	0.00494	0.00559	0.00559	0.005	-13.06238	50.0	Averaged	
Butyl acrylate	0.65314	0.67599	0.67599	0.100	-3.49809	50.0	Averaged	
Epichlorohydrin	200	201	0.02256	0.001	-0.71857	50.0	Linear	
1,2-Dichloroethylene (total	0.47078	0.46845	0.46845	0.200	0.49585	50.0	Averaged	
Xylenes (total)	0.56589	0.60359	0.60359	0.100	-6.66103	50.0	Averaged	
alpha-Methylstyrene	1.10787	1.14160	1.14160	0.100	-3.04500	50.0	Averaged	
Ethyl Acetate	0.39016	0.42108	0.42108	0.100	-7.92460	50.0	Averaged	
Cyclohexanone	0.02086	0.02385	0.02385	0.005	-14.37387	50.0	Averaged	
Isoprene	0.13320	0.13327	0.13327	0.100	-0.05189	50.0	Averaged	
Isopentane	++++	0.22971	0.22971	0.100	++++	50.0	Averaged	<-
Isopropyl acetate	0.77682	0.80812	0.80812	0.100	-4.02909	50.0	Averaged	
n-Amyl acetate	0.58303	0.58308	0.58308	0.100	-0.00755	50.0	Averaged	
n-Butyl acetate	0.42951	0.48002	0.48002	0.100	-11.75995	50.0	Averaged	
Allyl alcohol	0.01838	0.02210	0.02210	0.004	-20.23855	50.0	Averaged	
Acetaldehyde	200	218	0.03424	0.001	-9.05445	50.0	Linear	
Methyl Amyl Ketone	0.66478	0.67439	0.67439	0.100	-1.44582	50.0	Averaged	
Dimethyl Disulfide	0.67671	0.67001	0.67001	0.100	0.98888	50.0	Averaged	
2-Ethyl-1-hexanol	++++	0.00043	0.00043	0.001	++++	50.0	Averaged	<-
Isobutylene	0.05199	++++	9.389e+63	0.100	++++	50.0	Averaged	<-
1-Propanol	0.00817	0.00726	0.00726	0.005	11.09128	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 0750
Lab File ID X012702.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	43.09370	0.30102	0.100	13.81259	20.0	Linear	
Chloromethane	50.0	43.51984	0.39104	0.100	12.96032	20.0	Linear	
Propionitrile	0.05102	0.04920	0.04920	0.010	3.55907	20.0	Averaged	
Vinyl Chloride	0.43678	0.39803	0.39803	0.100	8.87095	20.0	Averaged	
Bromomethane	50.0	45.78631	0.30150	0.100	8.42738	20.0	Linear	
Chloroethane	0.30401	0.27165	0.27165	0.100	10.64565	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.62246	0.62246	0.100	-1.83813	20.0	Averaged	
Acrolein	100	94.03118	0.03209	0.010	5.96882	20.0	Linear	
Acetone	100	90.25230	0.12662	0.100	9.74770	20.0	Linear	
1,1-Dichloroethene	0.37948	0.36259	0.36259	0.100	4.44979	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.05932	0.05932	0.005	-5.48715	20.0	Averaged	
Acetonitrile	0.04551	0.04946	0.04946	0.005	-8.68094	20.0	Averaged	
Allyl Chloride	0.86670	0.87835	0.87835	0.100	-1.34440	20.0	Averaged	
Iodomethane	100	88.45613	0.43818	0.100	11.54387	20.0	Quadratic	
Acrylonitrile	0.12870	0.13262	0.13262	0.050	-3.04650	20.0	Averaged	
Methylene Chloride	0.52052	0.46749	0.46749	0.100	10.18732	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.20170	1.20170	0.100	3.25315	20.0	Averaged	
Carbon Disulfide	0.99285	1.02568	1.02568	0.100	-3.30610	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.42695	0.42695	0.100	-0.52845	20.0	Averaged	
Vinyl Acetate	1.09037	1.15231	1.15231	0.010	-5.68054	20.0	Averaged	
1,1-Dichloroethane	0.74536	0.74381	0.74381	0.200	0.20842	20.0	Averaged	
Chloroprene	0.17001	0.15530	0.15530	0.100	8.65084	20.0	Averaged	
2-Butanone	100	95.33295	0.14165	0.100	4.66705	20.0	Linear	
Methacrylonitrile	0.35404	0.34418	0.34418	0.100	2.78557	20.0	Averaged	
2,2-Dichloropropane	0.63286	0.71101	0.71101	0.100	-12.34924	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.49959	0.49959	0.100	3.34081	20.0	Averaged	
Chloroform	0.83541	0.83913	0.83913	0.200	-0.44527	20.0	Averaged	
Bromochloromethane	0.28299	0.26054	0.26054	0.100	7.93425	20.0	Averaged	
Dibromofluoromethane	50.0	49.57588	0.47604	0.100	0.84823	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.72703	0.72703	0.100	-9.68709	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.40895	0.40895	0.100	-15.20481	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.44035	0.44035	0.100	-7.49015	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.41385	0.41385	0.100	-9.17689	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	54.07283	0.54824	0.100	-8.14565	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 0750
Lab File ID X012702.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Benzene	1.19399	1.17806	1.17806	0.500	1.33408	20.0	Averaged	
Trichloroethene	0.33865	0.34562	0.34562	0.200	-2.05667	20.0	Averaged	
Bromodichloromethane	0.44810	0.43973	0.43973	0.200	1.86584	20.0	Averaged	
Methyl Methacrylate	0.34093	0.35797	0.35797	0.100	-4.99824	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.13759	0.13759	0.001	-7.92995	20.0	Averaged	
1,2-Dichloropropane	0.31761	0.30277	0.30277	0.100	4.67146	20.0	Averaged	
2-Nitropropane	0.12626	0.13406	0.13406	0.000	-6.17428	20.0	Averaged	
Dibromomethane	0.21588	0.20475	0.20475	0.100	5.15272	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.26657	0.26657	0.100	0.25267	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.53784	0.53784	0.200	-2.20278	20.0	Averaged	
Toluene-d8	1.23554	1.20293	1.20293	0.100	2.63925	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.23321	0.23321	0.100	0.95395	20.0	Averaged	
Toluene	1.38201	1.37273	1.37273	0.400	0.67163	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.46619	0.46619	0.100	-6.74741	20.0	Averaged	
2-Hexanone	0.18183	0.18844	0.18844	0.100	-3.63723	20.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.25848	0.25848	0.100	6.77258	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.52944	0.52944	0.100	2.98534	20.0	Averaged	
Dibromochloromethane	0.40016	0.39159	0.39159	0.100	2.14040	20.0	Averaged	
Tetrachloroethene	0.28594	0.31360	0.31360	0.200	-9.67205	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.33731	0.33731	0.100	2.69600	20.0	Averaged	
1-Chlorohexane	0.24163	0.28504	0.28504	0.100	-17.96512	20.0	Averaged	
Chlorobenzene	0.98026	0.94982	0.94982	0.500	3.10503	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.36175	0.36175	0.100	0.83624	20.0	Averaged	
Ethylbenzene	0.46175	0.48973	0.48973	0.100	-6.05856	20.0	Averaged	
m,p-Xylenes	0.59525	0.61385	0.61385	0.100	-3.12513	20.0	Averaged	
o-Xylene	0.58751	0.58769	0.58769	0.300	-0.03160	20.0	Averaged	
Styrene	0.98473	1.01490	1.01490	0.300	-3.06358	20.0	Averaged	
Bromoform	0.27722	0.26794	0.26794	0.100	3.34976	20.0	Averaged	
Isopropylbenzene	1.34224	1.53077	1.53077	0.100	-14.04586	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.73846	0.73846	0.300	7.33697	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.14594	0.47242	0.100	-2.29189	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.56930	0.56930	0.100	-2.32586	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11341	0.11341	0.050	-5.07117	20.0	Averaged	
n-Propylbenzene	2.76956	3.24534	3.24534	0.100	-17.17889	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 0750
Lab File ID X012702.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromobenzene	0.82033	0.80526	0.80526	0.100	1.83661	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.34528	2.34528	0.100	-14.62966	20.0	Averaged	
2-Chlorotoluene	1.81741	1.95486	1.95486	0.100	-7.56263	20.0	Averaged	
4-Chlorotoluene	2.07183	2.28135	2.28135	0.100	-10.11272	20.0	Averaged	
tert-Butylbenzene	1.67475	1.96912	1.96912	0.100	-17.57693	20.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.36949	2.36949	0.100	-10.06728	20.0	Averaged	
sec-Butylbenzene	2.22832	2.77983	2.77983	0.100	-24.75012	20.0	Averaged	<-
p-Isopropyltoluene	1.99679	2.47108	2.47108	0.100	-23.75300	20.0	Averaged	<-
1,3-Dichlorobenzene	1.36155	1.41754	1.41754	0.600	-4.11162	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.48462	1.48462	0.400	0.07688	20.0	Averaged	
Benzyl Chloride	50.0	48.81905	0.76292	0.010	2.36189	20.0	Linear	
n-Butylbenzene	50.0	57.62260	2.22858	0.500	-15.24520	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.38027	1.38027	0.400	1.56789	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.09426	0.12254	0.040	3.81147	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	0.99879	0.99879	0.100	-12.86480	20.0	Averaged	
Hexachlorobutadiene	50.0	59.85354	0.47054	0.100	-19.70709	20.0	Quadratic	
Naphthalene	2.01347	2.03883	2.03883	0.200	-1.25951	20.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.88586	0.88586	0.010	-4.51985	20.0	Averaged	
Methyl Acetate	0.22499	0.23088	0.23088	0.100	-2.61928	20.0	Averaged	
Freon TF	0.36703	0.38670	0.38670	0.100	-5.35978	20.0	Averaged	
Cyclohexane	50.0	59.98675	0.60726	0.100	-19.97350	20.0	Linear	
Tetrahydrofuran	100	95.93010	0.05971	0.001	4.06990	20.0	Linear	
Methylcyclohexane	0.61204	0.70190	0.70190	0.100	-14.68191	20.0	Averaged	
1,4-Dioxane	0.00457	0.00480	0.00480	0.001	-5.05952	20.0	Averaged	
n-Butanol	1000	1038	0.00666	0.005	-3.81101	20.0	Quadratic	
Methyl Acrylate	0.33946	0.37894	0.37894	0.100	-11.63093	20.0	Averaged	
Ethyl Acrylate	50.0	53.40295	1.04888	0.100	-6.80591	20.0	Linear	
n-Hexane	0.36001	0.46740	0.46740	0.100	-29.83247	20.0	Averaged	<-
Diethyl ether	0.33409	0.28423	0.28423	0.100	14.92362	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.03801	0.03801	0.005	-9.77841	20.0	Averaged	
Isopropyl alcohol	0.01808	0.02081	0.02081	0.005	-15.11087	20.0	Averaged	
Diisopropyl ether	1.29704	1.26640	1.26640	0.100	2.36237	20.0	Averaged	
2-Methylnaphthalene	0.97007	0.83648	0.83648	0.100	13.77134	20.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.40177	2.40177	0.100	0.24871	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 0750
Lab File ID X012702.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Ethanol	1000	1041	0.00339	0.001	-4.11255	20.0	Linear	
tert-Butyl formate	0.26532	0.29352	0.29352	0.100	-10.62955	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.02366	0.02389	0.02389	0.005	-0.97587	20.0	Averaged	
tert-Amyl methyl ether	1.44127	1.38645	1.38645	0.005	3.80398	20.0	Averaged	
tert-Butyl ethyl ether	1.37823	1.34418	1.34418	0.100	2.47022	20.0	Averaged	
tert-Amyl alcohol	0.02685	0.02935	0.02935	0.005	-9.30310	20.0	Averaged	
4-Methyl-2-pentanol	0.04732	0.04803	0.04803	0.005	-1.49816	20.0	Averaged	
1-Methylnaphthalene	++++	0.83648	0.83648	0.100	++++	20.0	Averaged	<-
1,3-Butadiene	0.34316	0.31260	0.31260	0.100	8.90507	20.0	Averaged	
Amyl alcohol	0.00494	0.00518	0.00518	0.005	-4.86100	20.0	Averaged	<-
Dichlorofluoromethane	0.06474	0.05456	0.05456	0.100	15.72300	20.0	Averaged	<-
Propylene oxide	0.03144	0.02692	0.02692	0.005	14.37800	20.0	Averaged	
3-Methyl-1-butanol	0.00494	0.00548	0.00548	0.005	-10.83630	20.0	Averaged	<-
Butyl acrylate	0.65314	0.66894	0.66894	0.100	-2.41955	20.0	Averaged	
Epichlorohydrin	200	199	0.02226	0.001	0.58513	20.0	Linear	
1,2-Dichloroethylene (total	0.47078	0.46327	0.46327	0.200	1.59553	20.0	Averaged	
Xylenes (total)	0.56589	0.57727	0.57727	0.100	-2.01030	20.0	Averaged	
alpha-Methylstyrene	1.10787	1.11290	1.11290	0.100	-0.45408	20.0	Averaged	
Ethyl Acetate	0.39016	0.40583	0.40583	0.100	-4.01759	20.0	Averaged	
Cyclohexanone	0.02086	0.02387	0.02387	0.005	-14.43336	20.0	Averaged	
Isoprene	0.13320	0.14131	0.14131	0.100	-6.08647	20.0	Averaged	
Isopentane	++++	0.24061	0.24061	0.100	++++	20.0	Averaged	<-
Isopropyl acetate	0.77682	0.79709	0.79709	0.100	-2.61020	20.0	Averaged	
n-Amyl acetate	0.58303	0.57440	0.57440	0.100	1.48049	20.0	Averaged	
n-Butyl acetate	0.42951	0.46838	0.46838	0.100	-9.04961	20.0	Averaged	
Allyl alcohol	0.01838	0.02337	0.02337	0.004	-27.16543	20.0	Averaged	<-
Acetaldehyde	200	186	0.02969	0.001	6.98303	20.0	Linear	
Methyl Amyl Ketone	0.66478	0.64392	0.64392	0.100	3.13717	20.0	Averaged	
Dimethyl Disulfide	0.67671	0.66676	0.66676	0.100	1.46953	20.0	Averaged	
2-Ethyl-1-hexanol	++++	0.00043	0.00043	0.001	++++	20.0	Averaged	<-
Isobutylene	0.05199	++++	9.389e+63	0.100	++++	20.0	Averaged	<-
1-Propanol	0.00817	0.00717	0.00717	0.005	12.27529	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 1739
Lab File ID X012729.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	41.90548	0.29264	0.100	16.18904	50.0	Linear	
Chloromethane	50.0	48.96823	0.44261	0.100	2.06354	50.0	Linear	
Propionitrile	0.05102	0.05240	0.05240	0.010	-2.71817	50.0	Averaged	
Vinyl Chloride	0.43678	0.39993	0.39993	0.100	8.43657	50.0	Averaged	
Bromomethane	50.0	48.98789	0.32343	0.100	2.02423	50.0	Linear	
Chloroethane	0.30401	0.26828	0.26828	0.100	11.75211	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.65748	0.65748	0.100	-7.56782	50.0	Averaged	
Acrolein	100	87.42835	0.02977	0.010	12.57165	50.0	Linear	
Acetone	100	79.34615	0.11133	0.100	20.65385	50.0	Linear	
1,1-Dichloroethene	0.37948	0.38468	0.38468	0.100	-1.37169	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.06273	0.06273	0.005	-11.54493	50.0	Averaged	
Acetonitrile	0.04551	0.05171	0.05171	0.005	-13.63907	50.0	Averaged	
Allyl Chloride	0.86670	0.91784	0.91784	0.100	-5.90073	50.0	Averaged	
Iodomethane	100	82.31867	0.40549	0.100	17.68133	50.0	Quadratic	
Acrylonitrile	0.12870	0.13936	0.13936	0.050	-8.27761	50.0	Averaged	
Methylene Chloride	0.52052	0.50320	0.50320	0.100	3.32666	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.28048	1.28048	0.100	-3.08927	50.0	Averaged	
Carbon Disulfide	0.99285	1.05749	1.05749	0.100	-6.51012	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.45302	0.45302	0.100	-6.66707	50.0	Averaged	
Vinyl Acetate	1.09037	1.12975	1.12975	0.010	-3.61228	50.0	Averaged	
1,1-Dichloroethane	0.74536	0.78687	0.78687	0.200	-5.56874	50.0	Averaged	
Chloroprene	0.17001	0.16109	0.16109	0.100	5.24192	50.0	Averaged	
2-Butanone	100	98.58193	0.14664	0.100	1.41807	50.0	Linear	
Methacrylonitrile	0.35404	0.35586	0.35586	0.100	-0.51293	50.0	Averaged	
2,2-Dichloropropane	0.63286	0.65419	0.65419	0.100	-3.37063	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.52989	0.52989	0.100	-2.52063	50.0	Averaged	
Chloroform	0.83541	0.90281	0.90281	0.200	-8.06747	50.0	Averaged	
Bromochloromethane	0.28299	0.28310	0.28310	0.100	-0.03835	50.0	Averaged	
Dibromofluoromethane	50.0	50.67476	0.48656	0.100	-1.34951	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.77908	0.77908	0.100	-17.53901	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.41952	0.41952	0.100	-18.18287	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.46022	0.46022	0.100	-12.34075	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.42590	0.42590	0.100	-12.35658	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	54.89183	0.55658	0.100	-9.78366	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 1739
Lab File ID X012729.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Benzene	1.19399	1.23139	1.23139	0.500	-3.13270	50.0	Averaged	
Trichloroethene	0.33865	0.37641	0.37641	0.200	-11.14884	50.0	Averaged	
Bromodichloromethane	0.44810	0.45671	0.45671	0.200	-1.92222	50.0	Averaged	
Methyl Methacrylate	0.34093	0.37483	0.37483	0.100	-9.94312	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.12317	0.12317	0.001	3.38484	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.31238	0.31238	0.100	1.64716	50.0	Averaged	
2-Nitropropane	0.12626	0.13676	0.13676	0.000	-8.31253	50.0	Averaged	
Dibromomethane	0.21588	0.21446	0.21446	0.100	0.65855	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.27224	0.27224	0.100	-1.86756	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.53830	0.53830	0.200	-2.28927	50.0	Averaged	
Toluene-d8	1.23554	1.18930	1.18930	0.100	3.74251	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.22899	0.22899	0.100	2.74503	50.0	Averaged	
Toluene	1.38201	1.43525	1.43525	0.400	-3.85189	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.46017	0.46017	0.100	-5.36731	50.0	Averaged	
2-Hexanone	0.18183	0.18580	0.18580	0.100	-2.18171	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.26915	0.26915	0.100	2.92261	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.54830	0.54830	0.100	-0.47194	50.0	Averaged	
Dibromochloromethane	0.40016	0.40288	0.40288	0.100	-0.68039	50.0	Averaged	
Tetrachloroethene	0.28594	0.32057	0.32057	0.200	-12.10776	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.35582	0.35582	0.100	-2.64547	50.0	Averaged	
1-Chlorohexane	0.24163	0.29077	0.29077	0.100	-20.33356	50.0	Averaged	
Chlorobenzene	0.98026	0.98615	0.98615	0.500	-0.60175	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.38019	0.38019	0.100	-4.21759	50.0	Averaged	
Ethylbenzene	0.46175	0.50835	0.50835	0.100	-10.09175	50.0	Averaged	
m,p-Xylenes	0.59525	0.64233	0.64233	0.100	-7.90972	50.0	Averaged	
o-Xylene	0.58751	0.61476	0.61476	0.300	-4.63828	50.0	Averaged	
Styrene	0.98473	1.06067	1.06067	0.300	-7.71123	50.0	Averaged	
Bromoform	0.27722	0.27723	0.27723	0.100	-0.00276	50.0	Averaged	
Isopropylbenzene	1.34224	1.59818	1.59818	0.100	-19.06866	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.73101	0.73101	0.300	8.27127	50.0	Averaged	
4-Bromofluorobenzene	50.0	51.32737	0.47410	0.100	-2.65475	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.60434	0.60434	0.100	-8.62542	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11101	0.11101	0.050	-2.84602	50.0	Averaged	
n-Propylbenzene	2.76956	3.25643	3.25643	0.100	-17.57947	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 1739
Lab File ID X012729.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromobenzene	0.82033	0.82692	0.82692	0.100	-0.80372	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.37671	2.37671	0.100	-16.16617	50.0	Averaged	
2-Chlorotoluene	1.81741	1.98117	1.98117	0.100	-9.01046	50.0	Averaged	
4-Chlorotoluene	2.07183	2.31435	2.31435	0.100	-11.70577	50.0	Averaged	
tert-Butylbenzene	1.67475	2.01217	2.01217	0.100	-20.14723	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.41007	2.41007	0.100	-11.95246	50.0	Averaged	
sec-Butylbenzene	2.22832	2.80186	2.80186	0.100	-25.73862	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.48136	2.48136	0.100	-24.26777	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.45270	1.45270	0.600	-6.69464	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.52519	1.52519	0.400	-2.65337	50.0	Averaged	
Benzyl Chloride	50.0	39.75504	0.61300	0.010	20.48992	50.0	Linear	
n-Butylbenzene	50.0	55.57827	2.14700	0.500	-11.15655	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.43649	1.43649	0.400	-2.44137	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.90987	0.12463	0.040	2.18025	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	0.97915	0.97915	0.100	-10.64581	50.0	Averaged	
Hexachlorobutadiene	50.0	55.28014	0.43413	0.100	-10.56027	50.0	Quadratic	
Naphthalene	2.01347	2.02881	2.02881	0.200	-0.76224	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.87972	0.87972	0.010	-3.79565	50.0	Averaged	
Methyl Acetate	0.22499	0.24922	0.24922	0.100	-10.77040	50.0	Averaged	
Freon TF	0.36703	0.39214	0.39214	0.100	-6.84174	50.0	Averaged	
Cyclohexane	50.0	62.04496	0.62854	0.100	-24.08992	50.0	Linear	
Tetrahydrofuran	100	97.36433	0.06057	0.001	2.63567	50.0	Linear	
Methylcyclohexane	0.61204	0.69500	0.69500	0.100	-13.55506	50.0	Averaged	
1,4-Dioxane	0.00457	0.00485	0.00485	0.001	-6.14097	50.0	Averaged	
n-Butanol	1000	964	0.00615	0.005	3.55442	50.0	Quadratic	
Methyl Acrylate	0.33946	0.39556	0.39556	0.100	-16.52629	50.0	Averaged	
Ethyl Acrylate	50.0	54.88559	1.07904	0.100	-9.77119	50.0	Linear	
n-Hexane	0.36001	0.43038	0.43038	0.100	-19.54866	50.0	Averaged	
Diethyl ether	0.33409	0.28995	0.28995	0.100	13.21315	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.03822	0.03822	0.005	-10.38295	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02058	0.02058	0.005	-13.81622	50.0	Averaged	
Diisopropyl ether	1.29704	1.33859	1.33859	0.100	-3.20295	50.0	Averaged	
2-Methylnaphthalene	0.97007	0.76288	0.76288	0.100	21.35820	50.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.49249	2.49249	0.100	-3.51917	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426682

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 27-JAN-2023 1739
Lab File ID X012729.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Ethanol	1000	971	0.00316	0.001	2.90098	50.0	Linear	
tert-Butyl formate	0.26532	0.28649	0.28649	0.100	-7.98039	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.02366	0.02244	0.02244	0.005	5.12556	50.0	Averaged	
tert-Amyl methyl ether	1.44127	1.44183	1.44183	0.005	-0.03890	50.0	Averaged	
tert-Butyl ethyl ether	1.37823	1.41407	1.41407	0.100	-2.60071	50.0	Averaged	
tert-Amyl alcohol	0.02685	0.02865	0.02865	0.005	-6.68570	50.0	Averaged	
4-Methyl-2-pentanol	0.04732	0.04594	0.04594	0.005	2.92223	50.0	Averaged	
1-Methylnaphthalene	++++	0.76288	0.76288	0.100	++++	50.0	Averaged	<-
1,3-Butadiene	0.34316	0.30401	0.30401	0.100	11.40818	50.0	Averaged	
Amyl alcohol	0.00494	0.00475	0.00475	0.005	3.95305	50.0	Averaged	
Dichlorofluoromethane	0.06474	0.05814	0.05814	0.100	10.19734	50.0	Averaged	
Propylene oxide	0.03144	0.02869	0.02869	0.005	8.74532	50.0	Averaged	
3-Methyl-1-butanol	0.00494	0.00489	0.00489	0.005	1.11539	50.0	Averaged	
Butyl acrylate	0.65314	0.66543	0.66543	0.100	-1.88254	50.0	Averaged	
Epichlorohydrin	200	201	0.02249	0.001	-0.41975	50.0	Linear	
1,2-Dichloroethylene (total	0.47078	0.49145	0.49145	0.200	-4.39094	50.0	Averaged	
Xylenes (total)	0.56589	0.60754	0.60754	0.100	-7.35991	50.0	Averaged	
alpha-Methylstyrene	1.10787	1.13782	1.13782	0.100	-2.70403	50.0	Averaged	
Ethyl Acetate	0.39016	0.42474	0.42474	0.100	-8.86230	50.0	Averaged	
Cyclohexanone	0.02086	0.01632	0.01632	0.005	21.74509	50.0	Averaged	
Isoprene	0.13320	0.14053	0.14053	0.100	-5.50208	50.0	Averaged	
Isopentane	++++	0.23045	0.23045	0.100	++++	50.0	Averaged	<-
Isopropyl acetate	0.77682	0.80901	0.80901	0.100	-4.14467	50.0	Averaged	
n-Amyl acetate	0.58303	0.56539	0.56539	0.100	3.02649	50.0	Averaged	
n-Butyl acetate	0.42951	0.46774	0.46774	0.100	-8.90077	50.0	Averaged	
Allyl alcohol	0.01838	0.02152	0.02152	0.004	-17.09287	50.0	Averaged	
Acetaldehyde	++++	++++	9.389e+63	0.001	++++	50.0	Linear	<-
Methyl Amyl Ketone	0.66478	0.61042	0.61042	0.100	8.17703	50.0	Averaged	
Dimethyl Disulfide	0.67671	0.68777	0.68777	0.100	-1.63487	50.0	Averaged	
2-Ethyl-1-hexanol	++++	0.00031	0.00031	0.001	++++	50.0	Averaged	<-
Isobutylene	0.05199	++++	9.389e+63	0.100	++++	50.0	Averaged	<-
1-Propanol	0.00817	0.00807	0.00807	0.005	1.26351	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426883

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 30-JAN-2023 1349
Lab File ID X013003.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00587	0.00587	0.001	-28.37449	20.0	Averaged	<-
1,3-Butadiene	0.34316	0.27051	0.27051	0.100	21.16962	20.0	Averaged	<-
Methacrylonitrile	0.35404	0.38840	0.38840	0.100	-9.70309	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.06603	0.06603	0.005	-17.41188	20.0	Averaged	
Acetonitrile	0.04551	0.04925	0.04925	0.005	-8.22760	20.0	Averaged	
Allyl Chloride	0.86670	0.93188	0.93188	0.100	-7.52074	20.0	Averaged	
Propionitrile	0.05102	0.05538	0.05538	0.010	-8.54662	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.13009	0.13009	0.050	-20.52263	20.0	Averaged	<-
Chloroprene	0.17001	0.13649	0.13649	0.100	19.71335	20.0	Averaged	
Ethyl Acetate	0.39016	0.45008	0.45008	0.100	-15.35810	20.0	Averaged	
Methyl Methacrylate	0.34093	0.39935	0.39935	0.100	-17.13561	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.00313	0.00313	0.100	98.67076	20.0	Averaged	<-
Diethyl ether	0.33409	0.28654	0.28654	0.100	14.23154	20.0	Averaged	
Tetrahydrofuran	100	111	0.06864	0.001	-10.76085	20.0	Linear	
alpha-Methylstyrene	1.10787	1.12692	1.12692	0.100	-1.71997	20.0	Averaged	
Diisopropyl ether	1.29704	1.37974	1.37974	0.100	-6.37583	20.0	Averaged	
Epichlorohydrin	200	237	0.02657	0.001	-18.41344	20.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.41850	2.41850	0.100	-0.44640	20.0	Averaged	
Dichlorodifluoromethane	50.0	48.77826	0.34109	0.100	2.44347	20.0	Linear	
Chloromethane	50.0	49.68851	0.44943	0.100	0.62298	20.0	Linear	
Vinyl Chloride	0.43678	0.36684	0.36684	0.100	16.01273	20.0	Averaged	
Bromomethane	50.0	42.08800	0.27617	0.100	15.82400	20.0	Linear	
Chloroethane	0.30401	0.24405	0.24405	0.100	19.72305	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.53103	0.53103	0.100	13.11965	20.0	Averaged	
Acrolein	100	94.36680	0.03221	0.010	5.63320	20.0	Linear	
Acetone	100	102	0.14337	0.100	-2.19044	20.0	Linear	
1,1-Dichloroethene	0.37948	0.31586	0.31586	0.100	16.76348	20.0	Averaged	
Iodomethane	100	100	0.50267	0.100	-0.46680	20.0	Quadratic	
Acrylonitrile	0.12870	0.14306	0.14306	0.050	-11.15208	20.0	Averaged	
Methylene Chloride	0.52052	0.47833	0.47833	0.100	8.10461	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.33664	1.33664	0.100	-7.61085	20.0	Averaged	
Carbon Disulfide	0.99285	0.91172	0.91172	0.100	8.17152	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.39951	0.39951	0.100	5.93181	20.0	Averaged	
Vinyl Acetate	1.09037	1.25862	1.25862	0.010	-15.43089	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426883

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 30-JAN-2023 1349
Lab File ID X013003.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.74536	0.70798	0.70798	0.200	5.01481	20.0	Averaged	
2-Butanone	100	116	0.17321	0.100	-15.89826	20.0	Linear	
2,2-Dichloropropane	0.63286	0.66125	0.66125	0.100	-4.48733	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.47964	0.47964	0.100	7.20001	20.0	Averaged	
Chloroform	0.83541	0.80866	0.80866	0.200	3.20232	20.0	Averaged	
Bromochloromethane	0.28299	0.25631	0.25631	0.100	9.42963	20.0	Averaged	
Dibromofluoromethane	50.0	46.46676	0.44629	0.100	7.06649	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.67224	0.67224	0.100	-1.42058	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.38097	0.38097	0.100	-7.32259	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.45357	0.45357	0.100	-10.71733	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.36525	0.36525	0.100	3.64298	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	51.01582	0.51709	0.100	-2.03165	20.0	Linear	
Benzene	1.19399	1.19991	1.19991	0.500	-0.49624	20.0	Averaged	
Trichloroethene	0.33865	0.34368	0.34368	0.200	-1.48367	20.0	Averaged	
Bromodichloromethane	0.44810	0.45217	0.45217	0.200	-0.91024	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.16607	0.16607	0.001	-30.26988	20.0	Averaged	<-
1,2-Dichloropropane	0.31761	0.32225	0.32225	0.100	-1.46047	20.0	Averaged	
Dibromomethane	0.21588	0.21406	0.21406	0.100	0.84305	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.32003	0.32003	0.100	-19.74914	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.57353	0.57353	0.200	-8.98488	20.0	Averaged	
Toluene-d8	1.23554	1.21855	1.21855	0.100	1.37496	20.0	Averaged	
Toluene	1.38201	1.39435	1.39435	0.400	-0.89249	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.50436	0.50436	0.100	-15.48608	20.0	Averaged	
2-Hexanone	0.18183	0.22879	0.22879	0.100	-25.82515	20.0	Averaged	<-
1,1,2-Trichloroethane	0.27726	0.28334	0.28334	0.100	-2.19559	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.57738	0.57738	0.100	-5.79928	20.0	Averaged	
Dibromochloromethane	0.40016	0.41971	0.41971	0.100	-4.88591	20.0	Averaged	
Tetrachloroethene	0.28594	0.29155	0.29155	0.200	-1.96161	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.38193	0.38193	0.100	-10.17781	20.0	Averaged	
1-Chlorohexane	0.24163	0.25432	0.25432	0.100	-5.25160	20.0	Averaged	
Chlorobenzene	0.98026	0.98863	0.98863	0.500	-0.85389	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.38445	0.38445	0.100	-5.38573	20.0	Averaged	
Ethylbenzene	0.46175	0.48274	0.48274	0.100	-4.54641	20.0	Averaged	
m,p-Xylenes	0.59525	0.60808	0.60808	0.100	-2.15604	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426883

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 30-JAN-2023 1349
Lab File ID X013003.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.58751	0.60235	0.60235	0.300	-2.52555	20.0	Averaged	
Styrene	0.98473	1.07221	1.07221	0.300	-8.88370	20.0	Averaged	
Bromoform	0.27722	0.30299	0.30299	0.100	-9.29394	20.0	Averaged	
Isopropylbenzene	1.34224	1.44787	1.44787	0.100	-7.86958	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.84954	0.84954	0.300	-6.60215	20.0	Averaged	
4-Bromofluorobenzene	50.0	52.08710	0.48113	0.100	-4.17420	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.61355	0.61355	0.100	-10.27971	20.0	Averaged	
n-Propylbenzene	2.76956	3.06925	3.06925	0.100	-10.82085	20.0	Averaged	
Bromobenzene	0.82033	0.84955	0.84955	0.100	-3.56220	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.28561	2.28561	0.100	-11.71319	20.0	Averaged	
2-Chlorotoluene	1.81741	1.96019	1.96019	0.100	-7.85613	20.0	Averaged	
4-Chlorotoluene	2.07183	2.31858	2.31858	0.100	-11.90963	20.0	Averaged	
tert-Butylbenzene	1.67475	2.31942	2.31942	0.100	-38.49329	20.0	Averaged	<-
1,2,4-Trimethylbenzene	2.15277	2.35806	2.35806	0.100	-9.53616	20.0	Averaged	
sec-Butylbenzene	2.22832	2.54418	2.54418	0.100	-14.17479	20.0	Averaged	
p-Isopropyltoluene	1.99679	2.31942	2.31942	0.100	-16.15764	20.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.47029	1.47029	0.600	-7.98659	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.56595	1.56595	0.400	-5.39726	20.0	Averaged	
n-Butylbenzene	50.0	52.95201	2.04220	0.500	-5.90403	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.47961	1.47961	0.400	-5.51703	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	57.80833	0.14734	0.040	-15.61665	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.06960	1.06960	0.100	-20.86604	20.0	Averaged	<-
Hexachlorobutadiene	50.0	56.50218	0.44385	0.100	-13.00435	20.0	Quadratic	
Naphthalene	2.01347	2.40591	2.40591	0.200	-19.49115	20.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.96652	0.96652	0.010	-14.03771	20.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.43958	0.43958	0.200	6.62797	20.0	Averaged	
Xylenes (total)	0.56589	0.57232	0.57232	0.100	-1.13497	20.0	Averaged	
Cyclohexane	50.0	49.16360	0.49534	0.100	1.67280	20.0	Linear	
Freon TF	0.36703	0.31367	0.31367	0.100	14.53877	20.0	Averaged	
Methylcyclohexane	0.61204	0.76951	0.76951	0.100	-25.72923	20.0	Averaged	<-
Methyl Acetate	0.22499	0.25079	0.25079	0.100	-11.46715	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.04540	0.04540	0.005	-31.11760	20.0	Averaged	<-
Isopropyl alcohol	0.01808	0.02439	0.02439	0.005	-34.87011	20.0	Averaged	<-

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426883

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 30-JAN-2023 2317
Lab File ID X013030.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00575	0.00575	0.001	-25.91172	50.0	Averaged	
1,3-Butadiene	0.34316	0.30527	0.30527	0.100	11.04048	50.0	Averaged	
Methacrylonitrile	0.35404	0.42089	0.42089	0.100	-18.88036	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.07080	0.07080	0.005	-25.89920	50.0	Averaged	
Acetonitrile	0.04551	0.04588	0.04588	0.005	-0.81688	50.0	Averaged	
Allyl Chloride	0.86670	0.90001	0.90001	0.100	-3.84305	50.0	Averaged	
Propionitrile	0.05102	0.06028	0.06028	0.010	-18.15315	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.07325	0.07325	0.050	32.13596	50.0	Averaged	
Chloroprene	0.17001	0.16502	0.16502	0.100	2.93539	50.0	Averaged	
Ethyl Acetate	0.39016	0.43955	0.43955	0.100	-12.66009	50.0	Averaged	
Methyl Methacrylate	0.34093	0.43063	0.43063	0.100	-26.31078	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.00343	0.00343	0.100	98.54343	50.0	Averaged	<-
Diethyl ether	0.33409	0.31125	0.31125	0.100	6.83637	50.0	Averaged	
Tetrahydrofuran	100	113	0.07010	0.001	-13.18024	50.0	Linear	
alpha-Methylstyrene	1.10787	1.19832	1.19832	0.100	-8.16508	50.0	Averaged	
Diisopropyl ether	1.29704	1.49184	1.49184	0.100	-15.01853	50.0	Averaged	
Epichlorohydrin	200	156	0.01739	0.001	22.06428	50.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.65396	2.65396	0.100	-10.22555	50.0	Averaged	
Dichlorodifluoromethane	50.0	41.81692	0.29202	0.100	16.36615	50.0	Linear	
Chloromethane	50.0	46.45756	0.41885	0.100	7.08487	50.0	Linear	
Vinyl Chloride	0.43678	0.42115	0.42115	0.100	3.57736	50.0	Averaged	
Bromomethane	50.0	40.18778	0.26316	0.100	19.62443	50.0	Linear	
Chloroethane	0.30401	0.29296	0.29296	0.100	3.63547	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.68705	0.68705	0.100	-12.40473	50.0	Averaged	
Acrolein	100	86.14676	0.02932	0.010	13.85324	50.0	Linear	
Acetone	100	102	0.14255	0.100	-1.60683	50.0	Linear	
1,1-Dichloroethene	0.37948	0.39550	0.39550	0.100	-4.22127	50.0	Averaged	
Iodomethane	100	99	0.49613	0.100	0.74550	50.0	Quadratic	
Acrylonitrile	0.12870	0.15441	0.15441	0.050	-19.97596	50.0	Averaged	
Methylene Chloride	0.52052	0.54870	0.54870	0.100	-5.41293	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.45409	1.45409	0.100	-17.06652	50.0	Averaged	
Carbon Disulfide	0.99285	0.99610	0.99610	0.100	-0.32735	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.45391	0.45391	0.100	-6.87615	50.0	Averaged	
Vinyl Acetate	1.09037	0.46633	0.46633	0.010	57.23222	50.0	Averaged	<-

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426883

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 30-JAN-2023 2317
Lab File ID X013030.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.74536	0.85654	0.85654	0.200	-14.91561	50.0	Averaged	
2-Butanone	100	113	0.16925	0.100	-13.31984	50.0	Linear	
2,2-Dichloropropane	0.63286	0.19999	0.19999	0.100	68.39948	50.0	Averaged	<-
cis-1,2-Dichloroethene	0.51686	0.55441	0.55441	0.100	-7.26520	50.0	Averaged	
Chloroform	0.83541	0.96674	0.96674	0.200	-15.71984	50.0	Averaged	
Bromochloromethane	0.28299	0.29964	0.29964	0.100	-5.88447	50.0	Averaged	
Dibromofluoromethane	50.0	52.31451	0.50225	0.100	-4.62903	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.86103	0.86103	0.100	-29.90332	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.40074	0.40074	0.100	-12.89259	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.44956	0.44956	0.100	-9.73832	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.42748	0.42748	0.100	-12.77272	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	61.39694	0.62287	0.100	-22.79388	50.0	Linear	
Benzene	1.19399	1.23976	1.23976	0.500	-3.83365	50.0	Averaged	
Trichloroethene	0.33865	0.45243	0.45243	0.200	-33.59597	50.0	Averaged	
Bromodichloromethane	0.44810	0.45593	0.45593	0.200	-1.74862	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.14312	0.14312	0.001	-12.26480	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.31783	0.31783	0.100	-0.06964	50.0	Averaged	
Dibromomethane	0.21588	0.21363	0.21363	0.100	1.03918	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.29526	0.29526	0.100	-10.48176	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.43286	0.43286	0.200	17.74601	50.0	Averaged	
Toluene-d8	1.23554	1.24318	1.24318	0.100	-0.61881	50.0	Averaged	
Toluene	1.38201	1.44614	1.44614	0.400	-4.63980	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.37508	0.37508	0.100	14.11650	50.0	Averaged	
2-Hexanone	0.18183	0.20034	0.20034	0.100	-10.17854	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.27957	0.27957	0.100	-0.83636	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.56292	0.56292	0.100	-3.15046	50.0	Averaged	
Dibromochloromethane	0.40016	0.41446	0.41446	0.100	-3.57469	50.0	Averaged	
Tetrachloroethene	0.28594	0.30992	0.30992	0.200	-8.38469	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.36804	0.36804	0.100	-6.16952	50.0	Averaged	
1-Chlorohexane	0.24163	0.26630	0.26630	0.100	-10.20909	50.0	Averaged	
Chlorobenzene	0.98026	0.98738	0.98738	0.500	-0.72672	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.38485	0.38485	0.100	-5.49721	50.0	Averaged	
Ethylbenzene	0.46175	0.51151	0.51151	0.100	-10.77595	50.0	Averaged	
m,p-Xylenes	0.59525	0.63437	0.63437	0.100	-6.57123	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011165

RunID VOA6_426883

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 30-JAN-2023 2317
Lab File ID X013030.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.58751	0.62606	0.62606	0.300	-6.56241	50.0	Averaged	
Styrene	0.98473	1.06299	1.06299	0.300	-7.94683	50.0	Averaged	
Bromoform	0.27722	0.28523	0.28523	0.100	-2.88698	50.0	Averaged	
Isopropylbenzene	1.34224	1.59035	1.59035	0.100	-18.48528	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.56348	0.56348	0.300	29.29359	50.0	Averaged	
4-Bromofluorobenzene	50.0	52.13394	0.48156	0.100	-4.26787	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.61529	0.61529	0.100	-10.59313	50.0	Averaged	
n-Propylbenzene	2.76956	3.30216	3.30216	0.100	-19.23046	50.0	Averaged	
Bromobenzene	0.82033	0.87665	0.87665	0.100	-6.86565	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.48814	2.48814	0.100	-21.61218	50.0	Averaged	
2-Chlorotoluene	1.81741	2.08987	2.08987	0.100	-14.99170	50.0	Averaged	
4-Chlorotoluene	2.07183	2.37827	2.37827	0.100	-14.79095	50.0	Averaged	
tert-Butylbenzene	1.67475	2.49305	2.49305	0.100	-48.86108	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.50052	2.50052	0.100	-16.15368	50.0	Averaged	
sec-Butylbenzene	2.22832	2.86777	2.86777	0.100	-28.69685	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.49305	2.49305	0.100	-24.85335	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.49231	1.49231	0.600	-9.60362	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.53874	1.53874	0.400	-3.56588	50.0	Averaged	
n-Butylbenzene	50.0	51.88160	1.99948	0.500	-3.76320	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.51916	1.51916	0.400	-8.33747	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.08923	0.14040	0.040	-10.17846	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	0.99233	0.99233	0.100	-12.13465	50.0	Averaged	
Hexachlorobutadiene	50.0	51.49740	0.40408	0.100	-2.99480	50.0	Quadratic	
Naphthalene	2.01347	2.33867	2.33867	0.200	-16.15165	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.94836	0.94836	0.010	-11.89492	50.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.50416	0.50416	0.200	-7.08971	50.0	Averaged	
Xylenes (total)	0.56589	0.59847	0.59847	0.100	-5.75639	50.0	Averaged	
Cyclohexane	50.0	67.08742	0.68069	0.100	-34.17485	50.0	Linear	
Freon TF	0.36703	0.39058	0.39058	0.100	-6.41519	50.0	Averaged	
Methylcyclohexane	0.61204	0.68273	0.68273	0.100	-11.54983	50.0	Averaged	
Methyl Acetate	0.22499	0.27995	0.27995	0.100	-24.42697	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.04630	0.04630	0.005	-33.72223	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02456	0.02456	0.005	-35.82026	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426481

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X012502	518521	#	4.18	#	760669	#	4.96	#	733760	#	7.67	#	423046	#	9.66	#
VLCSW-230125	X012504	500560		4.17		748036		4.96		704985		7.67		403871		9.66	
VBLKW-230125	X012506	637607		4.17		893865		4.96		802467		7.67		420093		9.66	
ZZZZZZMS	X012509	626410		4.17		872602		4.96		797697		7.67		445771		9.66	
ZZZZZZMSD	X012510	632455		4.18		884706		4.96		806161		7.67		440623		9.66	
HS23011165-01	X012519	630421		4.17		886056		4.97		794731		7.67		412210		9.66	
CCV-END	X012522	525517		4.17		783584		4.96		761044		7.67		443732		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426583

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X012602	555954	#	4.17	#	818504	#	4.96	#	783145	#	7.67	#	449944	#	9.66	#
VLCSW-230126	X012604	537171		4.18		803137		4.97		756761		7.67		433848		9.66	
VBLKW-230126	X012606	656022		4.17		934312		4.96		832965		7.67		425726		9.66	
ZZZZZZMS	X012608	677446		4.17		934883		4.96		846633		7.67		467991		9.66	
ZZZZZZMSD	X012609	679614		4.17		955229		4.96		862847		7.67		475607		9.66	
HS23011165-02	X012621	649433		4.18		921364		4.96		817833		7.67		437259		9.66	
HS23011165-03	X012622	634633		4.17		896434		4.96		803819		7.67		431318		9.66	
CCV-END	X012629	542544		4.17		819604		4.96		782109		7.67		450450		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426682

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X012702	574580	#	4.17	#	858623	#	4.96	#	819089	#	7.67	#	459092	#	9.66	#
VLCSW-230127	X012704	559520		4.18		830877		4.97		787598		7.67		441371		9.66	
VBLKW-230127	X012706	682611		4.17		969189		4.96		865426		7.67		464238		9.66	
ZZZZZZMS	X012708	684119		4.17		962994		4.96		880296		7.67		488016		9.66	
ZZZZZZMSD	X012709	684294		4.17		960426		4.96		876804		7.67		476674		9.66	
HS23011165-04	X012723	664576		4.17		933994		4.96		827903		7.67		435869		9.66	
HS23011165-05	X012724	665252		4.17		945876		4.96		827881		7.67		435249		9.66	
HS23011165-06	X012725	658168		4.17		926826		4.96		816625		7.67		422590		9.66	
HS23011165-07	X012726	652905		4.18		916379		4.96		827860		7.67		442994		9.66	
HS23011165-08	X012727	652918		4.17		920530		4.96		825163		7.67		432425		9.66	
HS23011165-09	X012728	649739		4.17		921641		4.96		825620		7.67		433910		9.66	
CCV-END	X012729	517192		4.18		802974		4.96		770510		7.67		444120		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

RunID
VOA6_426883

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X013003	559994	#	4.18	#	835212	#	4.96	#	788566	#	7.67	#	444670	#	9.66	#
CCB	X013004	670829		4.18		944739		4.97		824928		7.67		426533		9.66	
VLCSW-230130	X013005	590816		4.18		887927		4.96		832352		7.67		461674		9.66	
VBLKW-230130	X013007	678175		4.18		957817		4.97		862531		7.67		457972		9.66	
ZZZZZZMS	X013009	686453		4.17		972394		4.97		872577		7.67		473367		9.66	
ZZZZZZMSD	X013010	677980		4.18		961174		4.96		866548		7.67		481137		9.66	
HS23011165-04	X013012	679149		4.18		955330		4.97		853380		7.67		458639		9.66	
HS23011165-05	X013013	677382		4.18		953657		4.97		837014		7.67		425877		9.66	
CCV-END	X013030	469554		4.18		801859		4.96		759800		7.67		413671		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

MSVOA06 -Logbook

Batch: 52417 **Analyst:** Presenta Cabascango

Date: 12-16-2022 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	12-16-2022 11:17 am	1.00	50 mL	50 mL	X121601.D	Liquid	Y	NA
2	VSTD000.25	ICAL1	12-16-2022 11:38 am	1.00	50 mL	50 mL	X121602.D	Liquid	Y	NA
3	VSTD000.5	ICAL2	12-16-2022 12:20 pm	1.00	50 mL	50 mL	X121603.D	Liquid	Y	NA
4	VSTD001	ICAL3	12-16-2022 12:41 pm	1.00	50 mL	50 mL	X121604.D	Liquid	Y	NA
5	VSTD002	ICAL4	12-16-2022 01:02 pm	1.00	50 mL	50 mL	X121605.D	Liquid	Y	NA
6	VSTD005	ICAL5	12-16-2022 01:23 pm	1.00	50 mL	50 mL	X121606.D	Liquid	Y	NA
7	VSTD020	ICAL6	12-16-2022 01:43 pm	1.00	50 mL	50 mL	X121607.D	Liquid	Y	NA
8	VSTD050	ICAL7	12-16-2022 02:04 pm	1.00	50 mL	50 mL	X121608.D	Liquid	Y	NA
9	VSTD100	ICAL8	12-16-2022 02:25 pm	1.00	50 mL	50 mL	X121609.D	Liquid	Y	NA
10	VSTD150	ICAL9	12-16-2022 02:46 pm	1.00	50 mL	50 mL	X121610.D	Liquid	Y	NA
11	VSTD200	ICAL	12-16-2022 03:07 pm	1.00	50 mL	50 mL	X121611.D	Liquid	Y	NA
12	BLANK	SAMP	12-16-2022 03:28 pm	1.00	50 mL	50 mL	X121612.D	Liquid	Y	NA
13	CCV	CCV	12-16-2022 03:49 pm	1.00	50 mL	50 mL	X121613.D	Liquid	Y	NA
14	BLANK	SAMP	12-16-2022 04:10 pm	1.00	50 mL	50 mL	X121614.D	Liquid	Y	NA
15	CCB	SAMP	12-16-2022 04:31 pm	1.00	50 mL	50 mL	X121615.D	Liquid	Y	NA
16	VLCSW-221216	LCS	12-16-2022 04:52 pm	1.00	50 mL	50 mL	X121616.D	Liquid	Y	NA
17	BLANK	SAMP	12-16-2022 05:13 pm	1.00	50 mL	50 mL	X121617.D	Liquid	Y	NA
18	VBLKW-221216	MBLK	12-16-2022 05:34 pm	1.00	50 mL	50 mL	X121618.D	Liquid	Y	NA
19	HS22120648-05	SAMP	12-16-2022 05:55 pm	1.00	50 mL	50 mL	X121619.D	Liquid	Y	NA
20	HS22120648-09	SAMP	12-16-2022 06:16 pm	1.00	50 mL	50 mL	X121620.D	Liquid	Y	NA
21	HS22120648-01	SAMP	12-16-2022 06:37 pm	1.00	50 mL	50 mL	X121621.D	Liquid	Y	NA
22	HS22120648-02	SAMP	12-16-2022 06:58 pm	1.00	50 mL	50 mL	X121622.D	Liquid	Y	NA
23	HS22120648-03	SAMP	12-16-2022 07:19 pm	1.00	50 mL	50 mL	X121623.D	Liquid	Y	NA
24	HS22120648-04	SAMP	12-16-2022 07:40 pm	1.00	50 mL	50 mL	X121624.D	Liquid	Y	NA
25	HS22120648-06	SAMP	12-16-2022 08:01 pm	1.00	50 mL	50 mL	X121625.D	Liquid	Y	NA
26	HS22120648-07	SAMP	12-16-2022 08:22 pm	1.00	50 mL	50 mL	X121626.D	Liquid	Y	NA
27	HS22120648-08	SAMP	12-16-2022 08:43 pm	1.00	50 mL	50 mL	X121627.D	Liquid	Y	NA
28	HS22120648-06MS	MS	12-16-2022 09:04 pm	1.00	50 mL	50 mL	X121628.D	Liquid	Y	NA
29	HS22120648-06MSD	MSD	12-16-2022 09:25 pm	1.00	50 mL	50 mL	X121629.D	Liquid	Y	NA
30	CCV-END	CCV	12-16-2022 09:46 pm	1.00	50 mL	50 mL	X121630.D	Liquid	Y	NA
31	BFB	TUNE	12-16-2022 10:07 pm	1.00	50 mL	50 mL	Y121601.D	Liquid	Y	NA
32	CCV	CCV	12-16-2022 10:28 pm	1.00	50 mL	50 mL	Y121602a.D	Liquid	Y	NA
33	CCV	CCV	12-16-2022 10:49 pm	1.00	50 mL	50 mL	Y121603.D	Liquid	Y	NA
34	CCB	SAMP	12-16-2022 11:10 pm	1.00	50 mL	50 mL	Y121604.D	Liquid	Y	NA
35	VLCSW-221215	LCS	12-16-2022 11:31 pm	1.00	50 mL	50 mL	Y121605.D	Liquid	Y	NA
36	BLANK	SAMP	12-16-2022 11:52 pm	1.00	50 mL	50 mL	Y121606.D	Liquid	Y	NA
37	VBLKW-221215	MBLK	12-17-2022 12:13 am	1.00	50 mL	50 mL	Y121607.D	Liquid	Y	NA
38	HS22120974-13	SAMP	12-17-2022 12:34 am	1.00	50 mL	50 mL	Y121608.D	Liquid	Y	NA
39	HS22120974-01	SAMP	12-17-2022 12:55 am	1.00	50 mL	50 mL	Y121609.D	Liquid	Y	NA
40	HS22120974-01MS	MS	12-17-2022 01:16 am	1.00	50 mL	50 mL	Y121610.D	Liquid	Y	NA
41	HS22120974-01MSD	MSD	12-17-2022 01:38 am	1.00	50 mL	50 mL	Y121611.D	Liquid	Y	NA

MSVOA06 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	BLANK	SAMP	12-17-2022 01:59 am	1.00	50 mL	50 mL	Y121612.D	Liquid	Y	NA
43	HS22120974-02	SAMP	12-17-2022 02:20 am	1.00	50 mL	50 mL	Y121613.D	Liquid	Y	NA
44	HS22120974-03	SAMP	12-17-2022 02:41 am	1.00	50 mL	50 mL	Y121614.D	Liquid	Y	NA
45	HS22120974-04	SAMP	12-17-2022 03:02 am	1.00	50 mL	50 mL	Y121615.D	Liquid	Y	NA
46	HS22120974-05	SAMP	12-17-2022 03:23 am	1.00	50 mL	50 mL	Y121616.D	Liquid	Y	NA
47	HS22120974-06	SAMP	12-17-2022 03:44 am	1.00	50 mL	50 mL	Y121617.D	Liquid	Y	NA
48	HS22120974-07	SAMP	12-17-2022 04:05 am	1.00	50 mL	50 mL	Y121618.D	Liquid	Y	NA
49	HS22120974-08	SAMP	12-17-2022 04:26 am	1.00	50 mL	50 mL	Y121619.D	Liquid	Y	NA
50	HS22120974-09	SAMP	12-17-2022 04:47 am	1.00	50 mL	50 mL	Y121620.D	Liquid	Y	NA
51	HS22120974-10	SAMP	12-17-2022 05:08 am	1.00	50 mL	50 mL	Y121621.D	Liquid	Y	NA
52	HS22120974-11	SAMP	12-17-2022 05:29 am	1.00	50 mL	50 mL	Y121622.D	Liquid	Y	NA
53	HS22120974-12	SAMP	12-17-2022 05:50 am	1.00	50 mL	50 mL	Y121623.D	Liquid	Y	NA
54	HS22120974-14	SAMP	12-17-2022 06:11 am	1.00	50 mL	50 mL	Y121624.D	Liquid	Y	NA
55	HS22120974-15	SAMP	12-17-2022 06:32 am	1.00	50 mL	50 mL	Y121625.D	Liquid	Y	NA
56	HS22120574-15	SAMP	12-17-2022 06:53 am	5.00	10 mL	50 mL	Y121626.D	Liquid	Y	NA
57	HS22120574-17	SAMP	12-17-2022 07:14 am	5.00	10 mL	50 mL	Y121627.D	Liquid	Y	NA
58	HS22120770-07	SAMP	12-17-2022 07:36 am	10.00	5 mL	50 mL	Y121628.D	Liquid	Y	NA
59	HS22120770-07	SAMP	12-17-2022 07:57 am	100.0(	500 µL	50 mL	Y121629.D	Liquid	Y	NA
60	HS22120770-10	SAMP	12-17-2022 08:18 am	5.00	10 mL	50 mL	Y121630.D	Liquid	Y	NA
61	BLANK	SAMP	12-17-2022 08:39 am	1.00	50 mL	50 mL	Y121631.D	Liquid	Y	NA

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

RUNID
VOA6_426481

Run ID VOA6_426481 **Start Date** 01/25/23 **EndDate** 01/25/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	X012502.D	01/25/23 07:39	1
VLCSW-230125	LCS	VLCSW-230125	X012504.D	01/25/23 08:42	1
VBLKW-230125	MBLK	VBLKW-230125	X012506.D	01/25/23 09:24	1
BatchQC	MS	HS23010982-02MS	X012509.D	01/25/23 10:27	100
BatchQC	MSD	HS23010982-02MSD	X012510.D	01/25/23 10:48	100
Trip Blank-2301	SAMP	HS23011165-01	X012519.D	01/25/23 13:57	1

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

RUNID
VOA6_426583

Run ID VOA6_426583 **Start Date** 01/26/23 **EndDate** 01/26/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	X012602.D	01/26/23 08:24	1
VLCSW-230126	LCS	VLCSW-230126	X012604.D	01/26/23 09:27	1
VBLKW-230126	MBLK	VBLKW-230126	X012606.D	01/26/23 10:09	1
BatchQC	MS	HS23011136-04MS	X012608.D	01/26/23 10:51	1
BatchQC	MSD	HS23011136-04MSD	X012609.D	01/26/23 11:12	1
16WW38-230120	SAMP	HS23011165-02	X012621.D	01/26/23 15:24	20
16WW38-230120-FD	SAMP	HS23011165-03	X012622.D	01/26/23 15:45	20

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

RUNID
VOA6_426682

Run ID VOA6_426682 **Start Date** 01/27/23 **EndDate** 01/27/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	X012702.D	01/27/23 07:50	1
VLCSW-230127	LCS	VLCSW-230127	X012704.D	01/27/23 08:53	1
VBLKW-230127	MBLK	VBLKW-230127	X012706.D	01/27/23 09:35	1
BatchQC	MS	HS23011212-02MS	X012708.D	01/27/23 10:18	1
BatchQC	MSD	HS23011212-02MSD	X012709.D	01/27/23 10:39	1
16WW37-230120	SAMP	HS23011165-04	X012723.D	01/27/23 15:33	1
16WW51-230120	SAMP	HS23011165-05	X012724.D	01/27/23 15:54	1
16RW12-230120	SAMP	HS23011165-06	X012725.D	01/27/23 16:15	1
16RW12-2301-FD	SAMP	HS23011165-07	X012726.D	01/27/23 16:36	1
16WW22-230120	SAMP	HS23011165-08	X012727.D	01/27/23 16:57	1
16WW56-230120	SAMP	HS23011165-09	X012728.D	01/27/23 17:18	1

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011165

Volatiles by EPA 8260

RUNID
VOA6_426883

Run ID VOA6_426883 **Start Date** 01/30/23 **EndDate** 01/30/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	X013003.D	01/30/23 13:49	1
CCB	CCB	CCB	X013004.D	01/30/23 14:10	1
VLCSW-230130	LCS	VLCSW-230130	X013005.D	01/30/23 14:31	1
VBLKW-230130	MBLK	VBLKW-230130	X013007.D	01/30/23 15:13	1
BatchQC	MS	HS23011273-02MS	X013009.D	01/30/23 15:56	1
BatchQC	MSD	HS23011273-02MSD	X013010.D	01/30/23 16:17	1
16WW37-230120	SAMP	HS23011165-04	X013012.D	01/30/23 16:59	5
16WW51-230120	SAMP	HS23011165-05	X013013.D	01/30/23 17:20	100

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Raw Data VOA6 424237

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\x221216.b\X121601.D Page 1
Report Date: 16-Dec-2022 12:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\X121601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-DEC-2022 11:17
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham 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: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	72328			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	13272			15.00- 40.00	18.35
8.691	8.889	(0.000)	75	33368			30.00- 60.00	46.13
8.691	8.889	(0.000)	96	5178			5.00- 9.00	7.16
8.691	8.889	(0.000)	173	577			0.00- 2.00	0.90
8.691	8.889	(0.000)	174	64360			50.00- 0.00	88.98
8.691	8.889	(0.000)	175	5033			5.00- 9.00	7.82
8.691	8.889	(0.000)	176	63184			95.00- 101.00	98.17
8.691	8.889	(0.000)	177	4164			5.00- 9.00	6.59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.35
75	30.00 - 60.00% of mass 95	46.13
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	0.80 (0.90)
174	Greater than 50.00% of mass 95	88.98
175	5.00 - 9.00% of mass 174	6.96 (7.82)
176	95.00 - 101.00% of mass 174	87.36 (98.17)
177	5.00 - 9.00% of mass 176	5.76 (6.59)

Data File: X121601.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	686	63.00	2521	93.00	2705	136.90	215
37.00	3051	64.10	316	94.00	9587	140.90	735
38.00	2957	66.90	155	95.00	72328	141.70	91
39.00	1321	67.90	6274	96.00	5178	142.80	683
39.90	1146	69.00	6990	96.90	213	145.60	119
42.00	114	69.90	604	103.00	58	148.00	107
42.90	301	71.80	385	104.00	313	149.80	105
44.00	1509	72.90	2986	104.70	125	153.80	54
45.00	716	74.00	11163	105.10	132	154.80	169
46.80	723	75.00	33368	105.90	451	156.80	155
48.00	503	76.00	3228	110.60	54	160.80	71
49.00	3278	76.90	395	113.00	74	171.60	83
50.00	13272	77.80	187	114.80	159	172.80	577
51.00	3648	78.90	2224	115.80	342	173.90	64360
52.10	365	79.80	718	116.90	386	174.90	5033
54.00	52	80.90	2158	117.90	425	175.90	63184
54.90	278	81.80	420	118.80	260	176.90	4164
56.00	1513	83.00	51	127.90	191	178.00	133
57.00	1763	86.90	2878	128.90	172		
59.90	665	87.80	2342	129.80	237		
61.00	3173	91.00	516	130.80	156		
62.00	3572	92.00	2006	134.70	222		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D Page 1

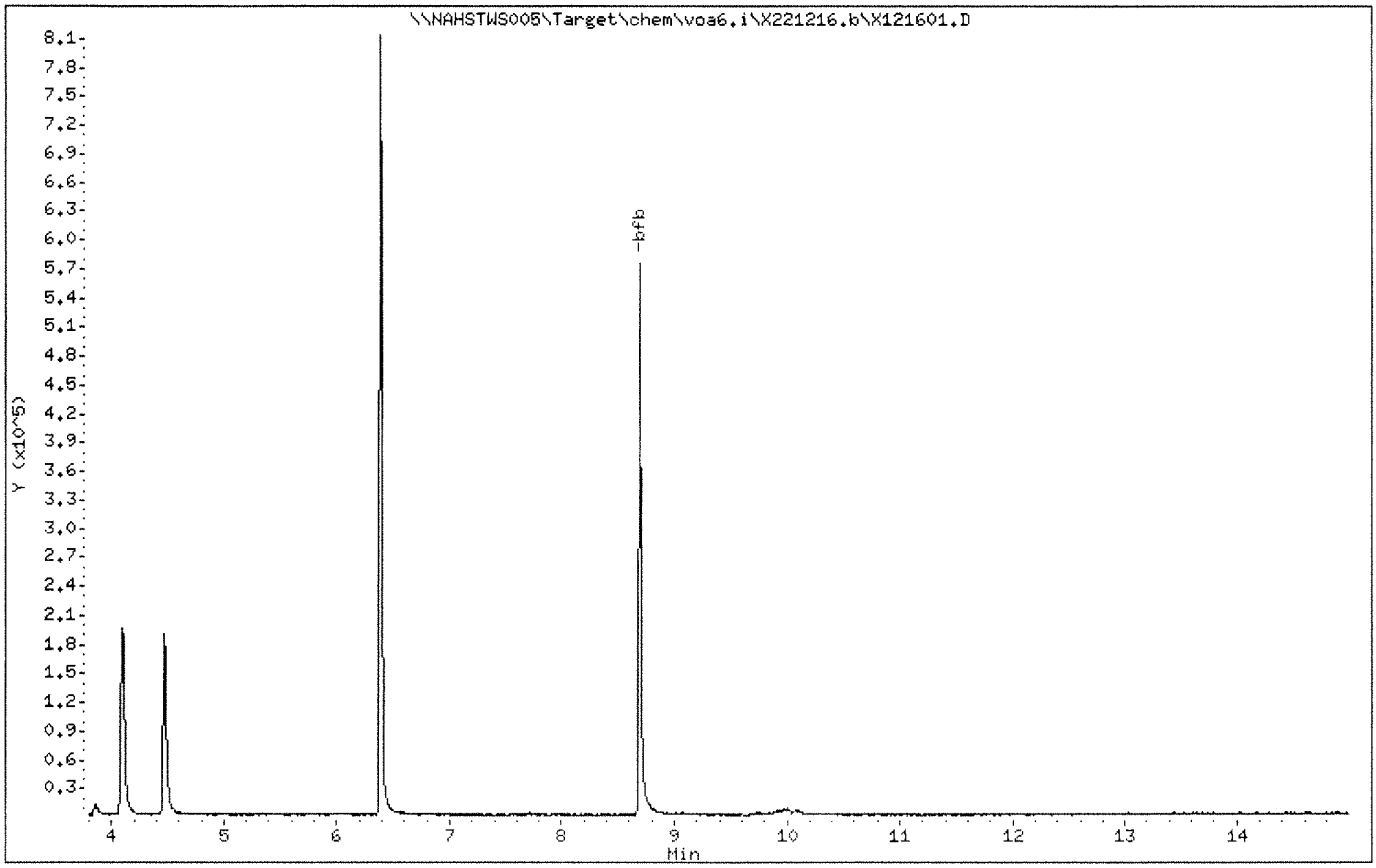
Date : 16-DEC-2022 11:17

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D Page 2

Date : 16-DEC-2022 11:17

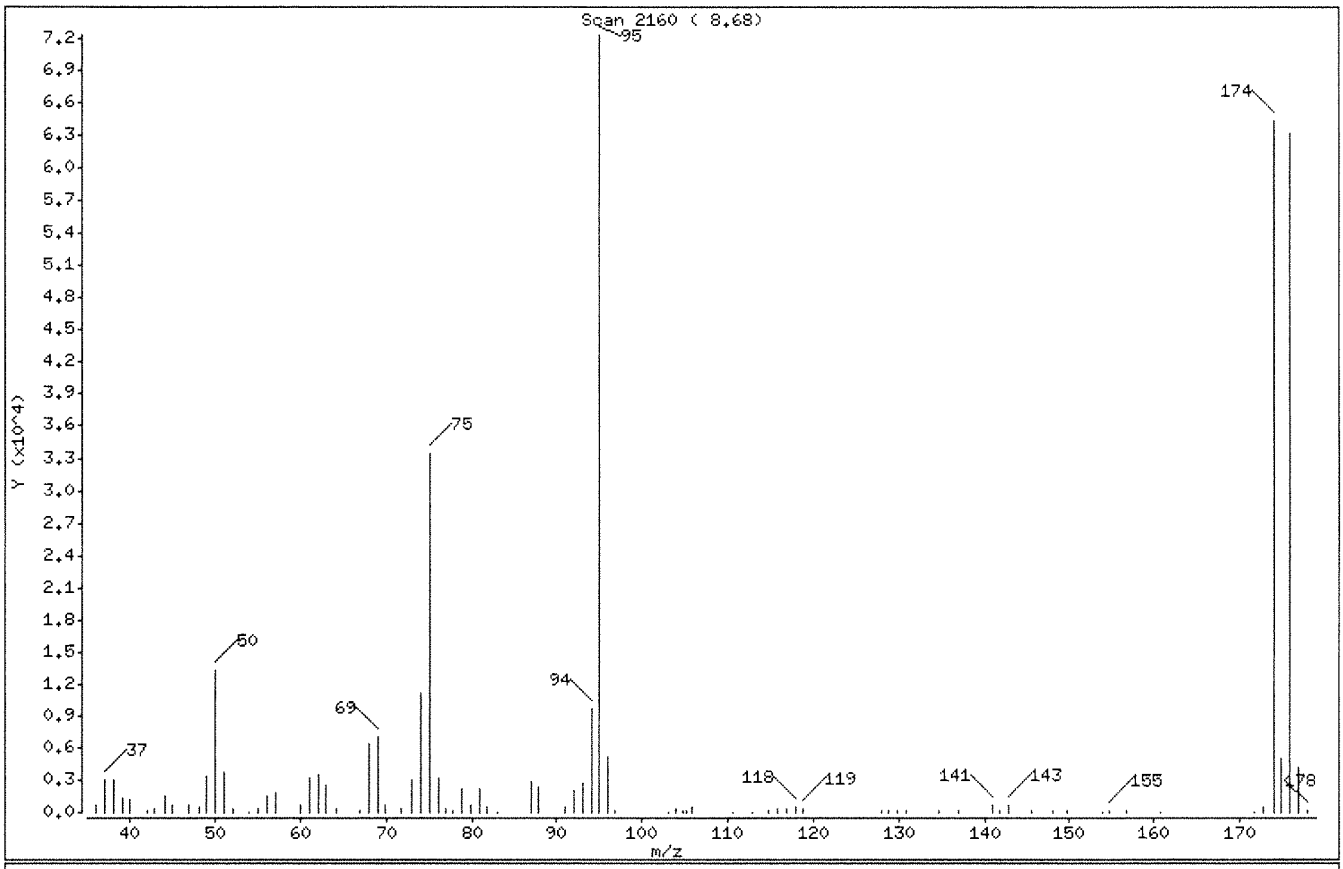
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.35
75	30.00 - 60.00% of mass 95	46.13
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	0.80 (0.90)
174	Greater than 50.00% of mass 95	88.98
175	5.00 - 9.00% of mass 174	6.96 (7.82)
176	95.00 - 101.00% of mass 174	87.36 (98.17)
177	5.00 - 9.00% of mass 176	5.76 (6.59)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D

Date : 16-DEC-2022 11:17

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X121601.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	686	63.00	2521	93.00	2705	136.90	215
37.00	3051	64.10	316	94.00	9587	140.90	735
38.00	2957	66.90	155	95.00	72328	141.70	91
39.00	1321	67.90	6274	96.00	5178	142.80	683
39.90	1146	69.00	6990	96.90	213	145.60	119
42.00	114	69.90	604	103.00	58	148.00	107
42.90	301	71.80	385	104.00	313	149.80	105
44.00	1509	72.90	2986	104.70	125	153.80	54
45.00	716	74.00	11163	105.10	132	154.80	169
46.80	723	75.00	33368	105.90	451	156.80	155
48.00	503	76.00	3228	110.60	54	160.80	71
49.00	3278	76.90	395	113.00	74	171.60	83
50.00	13272	77.80	187	114.80	159	172.80	577
51.00	3648	78.90	2224	115.80	342	173.90	64360
52.10	365	79.80	718	116.90	386	174.90	5033
54.00	52	80.90	2158	117.90	425	175.90	63184
54.90	278	81.80	420	118.80	260	176.90	4164
56.00	1513	83.00	51	127.90	191	178.00	133
57.00	1763	86.90	2878	128.90	172		
59.90	665	87.80	2342	129.80	237		
61.00	3173	91.00	516	130.80	156		
62.00	3572	92.00	2006	134.70	222		

Data File : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\X121601.D
Inj Date : 16-DEC-2022 11:17
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 16-DEC-2022 11:38
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	461807	50.0000	
135	1,4-Dioxane	88	5.625	5.625	(1.346)	214	5.00000	5.06(M)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	1172	0.25000	0.36
25	Methacrylonitrile	41	3.855	3.855	(0.923)	5876	0.25000	1.79
12	Isobutyl Alcohol	43	4.687	4.687	(1.122)	2537	5.00000	4.88(TM)
13	Acetonitrile	39	2.202	2.202	(0.527)	730	2.50000	1.73
14	Allyl Chloride	41	2.206	2.206	(0.528)	1591	0.25000	0.19
4	Propionitrile	54	3.702	3.702	(0.886)	1165	2.50000	2.47(M)
72	trans-1,4-Dichloro-2-butene	53	8.931	8.931	(1.164)	280	0.25000	0.19(M)
145	alpha-Methylstyrene	118	9.268	9.268	(0.959)	2322	0.25000	0.30
200	Dimethyl Disulfide	94	6.213	6.213	(0.810)	1870	0.25000	0.21
139	Diethyl ether	59	1.760	1.760	(0.421)	687	0.25000	0.22
49	Ethyl Methacrylate	69	6.738	6.738	(1.357)	625	0.25000	0.19
142	Tetrahydrofuran	42	3.836	3.836	(0.918)	358	0.50000	(M)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	4360	0.25000	0.25
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	801	0.25000	0.63(M)
3	Chloromethane	50	1.077	1.077	(0.258)	1420	0.25000	2.53
5	Vinyl Chloride	62	1.141	1.141	(0.273)	1134	0.25000	0.28(M)
6	Bromomethane	94	1.340	1.340	(0.321)	1009	0.25000	2.08(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	1468	0.25000	0.26

10 Acetone	43	1.977	1.977 (0.473)	2727	0.50000	2.07
11 1,1-Dichloroethene	96	1.910	1.910 (0.457)	1010	0.25000	0.28(M)

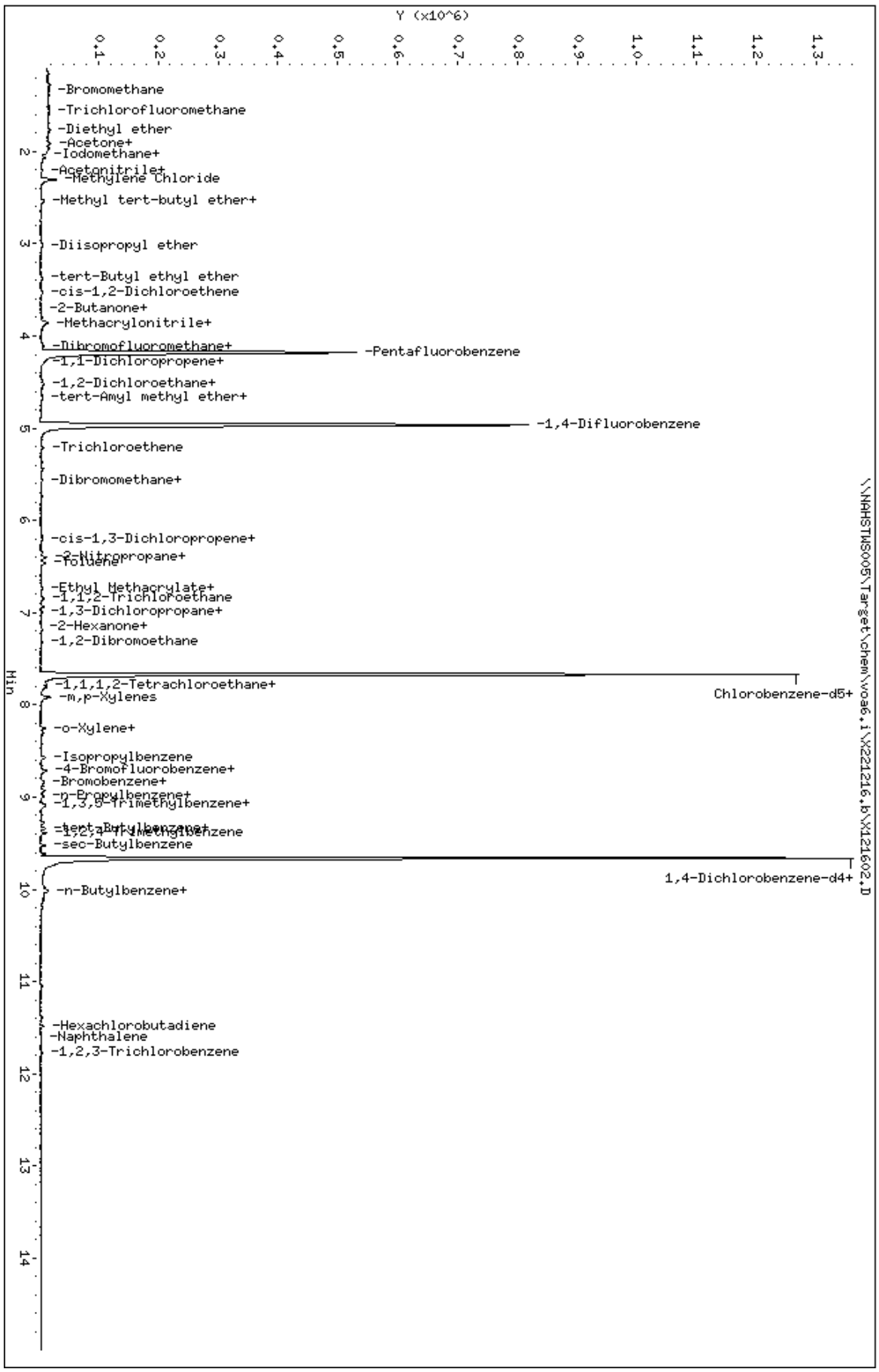
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	1106	0.50000	3.56(T)
	17 Methylene Chloride	84	2.292	2.292	(0.549)	1436	0.25000	0.29(M)
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	2787	0.25000	0.24
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	5999	0.50000	0.65
	20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.608)	1302	0.25000	0.33
	24 2-Butanone	43	3.698	3.698	(0.885)	1014	0.50000	3.74
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	1402	0.25000	0.29
	28 Chloroform	83	3.908	3.908	(0.935)	2553	0.25000	0.33
	29 Bromochloromethane	128	3.799	3.799	(0.909)	802	0.25000	0.30(M)
$	30 Dibromofluoromethane	113	4.103	4.103	(0.982)	1706	0.25000	0.21
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	1648	0.25000	0.26
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	2114	0.25000	0.43
	33 1,2-Dichloroethane	62	4.571	4.571	(0.921)	2167	0.25000	0.38
	34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	1685	0.25000	0.32(M)
$	35 1,2-Dichloroethane-d4	65	4.481	4.481	(1.073)	2260	0.25000	0.75(T)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	690224	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	5768	0.25000	0.34
	38 Trichloroethene	130	5.212	5.212	(1.050)	1544	0.25000	0.33
	44 Dibromomethane	93	5.565	5.565	(1.121)	1046	0.25000	0.35
	45 4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	2297	0.50000	0.65
	46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	1839	0.25000	0.25
*	47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	653787	50.0000	
$	48 Toluene-d8	98	6.401	6.401	(0.834)	6828	0.25000	0.42(T)
	50 Toluene	91	6.457	6.457	(0.842)	6778	0.25000	0.37
	52 2-Hexanone	43	7.150	7.150	(0.932)	974	0.50000	0.40(T)
	53 1,1,2-Trichloroethane	83	6.847	6.847	(0.893)	1098	0.25000	0.30
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	2278	0.25000	0.31
	55 Dibromochloromethane	129	7.184	7.184	(0.936)	1732	0.25000	0.33
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	1051	0.25000	0.28
	57 1,2-Dibromoethane	107	7.278	7.278	(0.949)	1100	0.25000	0.24
	58 1-Chlorohexane	55	7.668	7.668	(1.544)	6570	0.25000	1.96
	59 Chlorobenzene	112	7.694	7.694	(1.003)	3981	0.25000	0.31
	60 1,1,1,2-Tetrachloroethane	131	7.780	7.780	(1.014)	1245	0.25000	0.26
	61 Ethylbenzene	106	7.810	7.810	(1.018)	1854	0.25000	0.30
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	5083	0.50000	0.65
	63 o-Xylene	106	8.252	8.252	(1.076)	2471	0.25000	0.32
	64 Styrene	104	8.297	8.297	(1.082)	3214	0.25000	0.24
	67 Isopropylbenzene	105	8.575	8.575	(1.118)	5495	0.25000	0.31
$	69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	4271	0.25000	0.77
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	348702	50.0000	
	71 1,2,3-Trichloropropane	75	8.875	8.875	(0.919)	766	0.25000	0.19(M)
	73 n-Propylbenzene	91	8.931	8.931	(0.924)	5570	0.25000	0.28
	74 Bromobenzene	156	8.826	8.826	(0.913)	1517	0.25000	0.26
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	4893	0.25000	0.34
	76 2-Chlorotoluene	91	8.991	8.991	(0.931)	4890	0.25000	0.38
	77 4-Chlorotoluene	91	9.107	9.107	(0.943)	3881	0.25000	0.26
	78 tert-Butylbenzene	119	9.343	9.343	(0.967)	4059	0.25000	0.34
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	5202	0.25000	0.34
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	4818	0.25000	0.31
	82 p-Isopropyltoluene	119	9.662	9.662	(1.000)	4406	0.25000	0.31
	83 1,3-Dichlorobenzene	146	9.621	9.621	(0.996)	3005	0.25000	0.31
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	3674	0.25000	0.35

87	n-Butylbenzene	91	10.033	10.033 (1.038)	1595	0.25000	1.89
88	1,2-Dichlorobenzene	146	10.010	10.010 (1.036)	2937	0.25000	0.30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	91 Hexachlorobutadiene	225	11.484	11.484	(1.189)	726	0.25000	0.21(M)
	92 Naphthalene	128	11.607	11.607	(1.201)	1969	0.25000	0.14
	93 1,2,3-Trichlorobenzene	180	11.769	11.769	(1.218)	1816	0.25000	0.30(M)
M	94 1,2-Dichloroethylene (total)	96				2704	0.50000	
M	95 Xylenes (total)	106				7554	0.75000	
	141 Cyclohexane	56	4.125	4.125	(0.987)	1235	0.25000	1.51(M)
	138 Freon TF	101	1.917	1.917	(0.459)	765	0.25000	0.22(M)

QC Flag Legend

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



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Date : 16-DEC-2022 11:38
Client ID: WSTD000,25
Sample Info: WSTD000,25;WSTD000,25;1;1;
Purge Volume: 5.0
Column phase: DB624

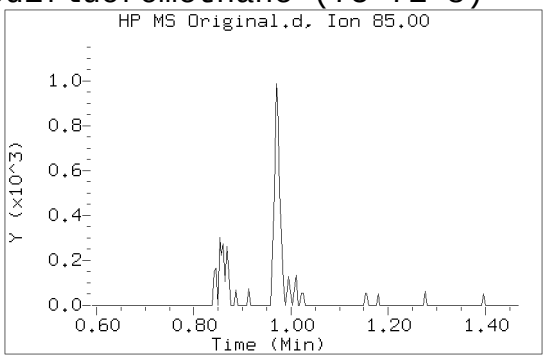
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Dichlorodifluoromethane (75-71-8)

BEFORE

MASS
50
AREA
1420
HEIGHT
1809
16-Dec-2022
11:54
ALSHS
Server



BEFORE

MASS
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AREA
731
HEIGHT
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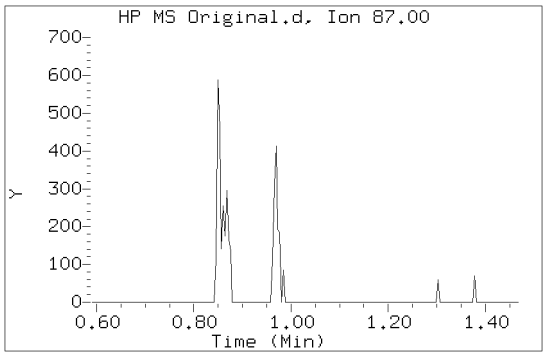
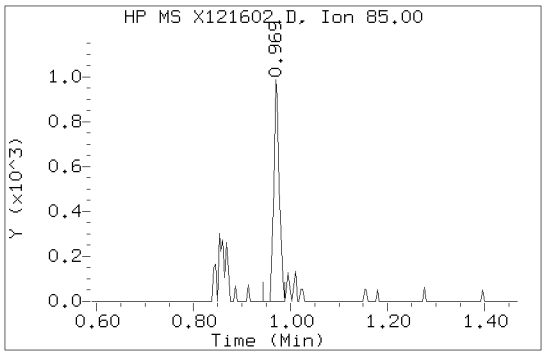
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

AFTER

MASS
85
AREA
801
HEIGHT
987
27-Dec-2022
16:07
ALSHS
Ser



AFTER

MASS
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AREA
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HEIGHT
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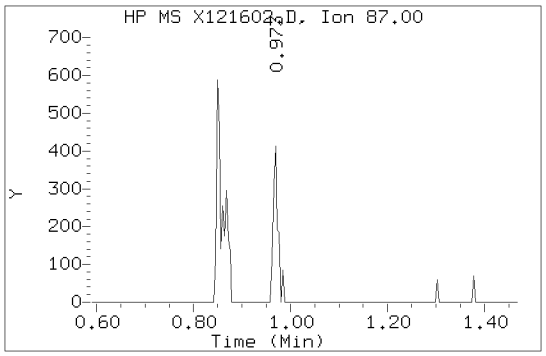
16:07
ALSHS
Ser



Vinyl Chloride (75-01-4)

BEFORE

MASS
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AREA
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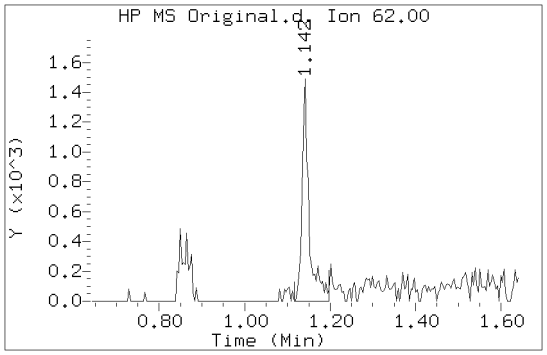
HEIGHT
983
16-Dec-2022
11:54
ALSHS
Server



BEFORE

MASS
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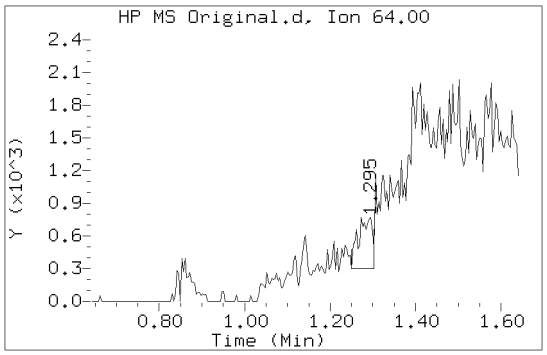
AREA
1330
HEIGHT
961
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

AFTER

MASS
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AREA
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HEIGHT
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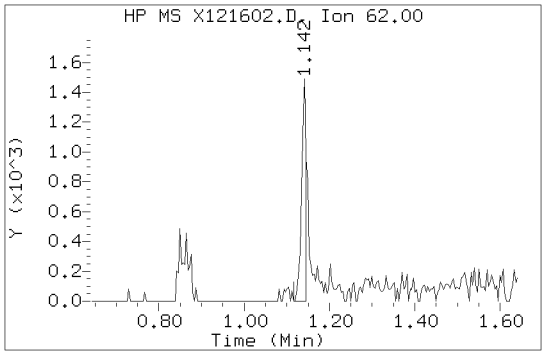
27-Dec-2022
16:07
ALSHS
Ser



AFTER

MASS
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AREA
1053
HEIGHT
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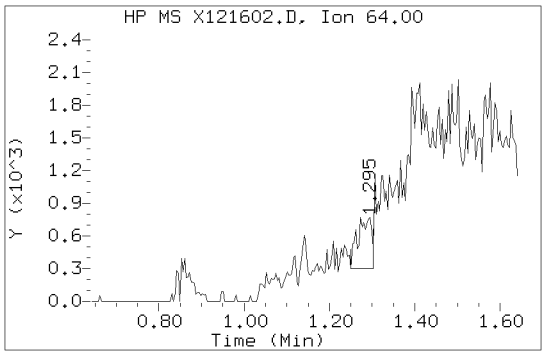
27-Dec-2022
16:07
ALSHS
Ser



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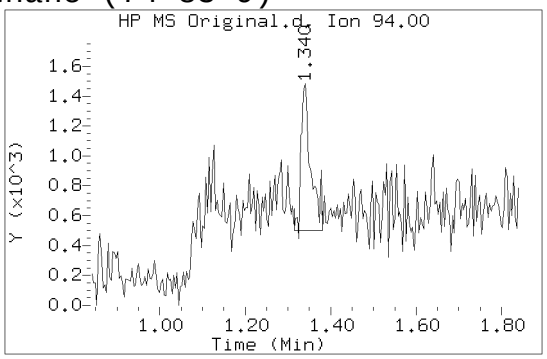
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

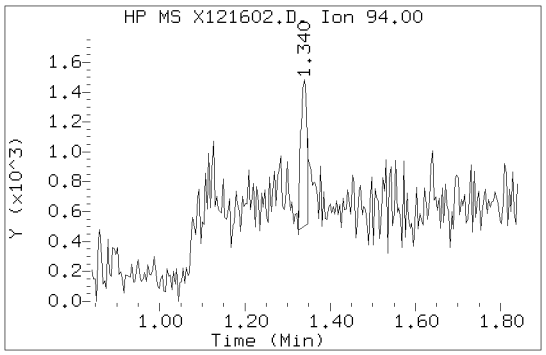
Bromomethane (74-83-9)

Reason Code:

BEFORE
MASS
64
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
94
AREA
1009
HEIGHT
977
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
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AREA
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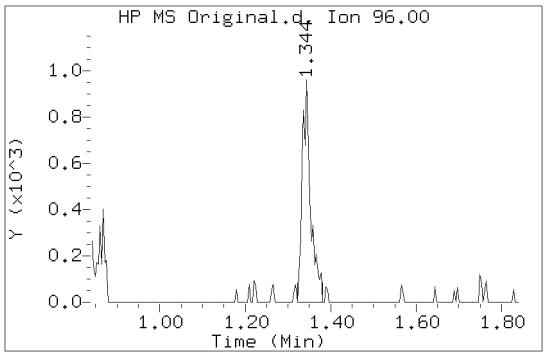
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
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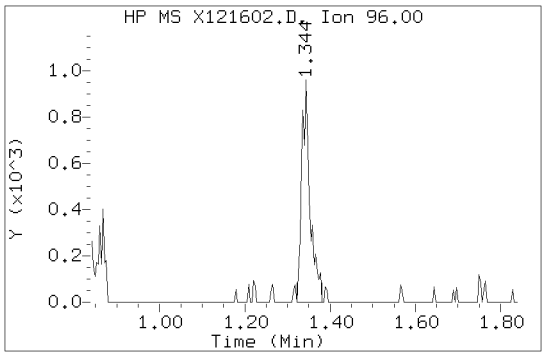
AREA
1330
HEIGHT
961
27-Dec-2022
16:07
ALSHS
Ser



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

Reason Code:

BEFORE
MASS
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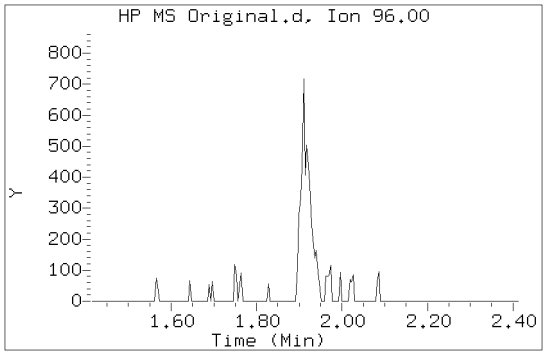
AREA
1106
HEIGHT
699
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
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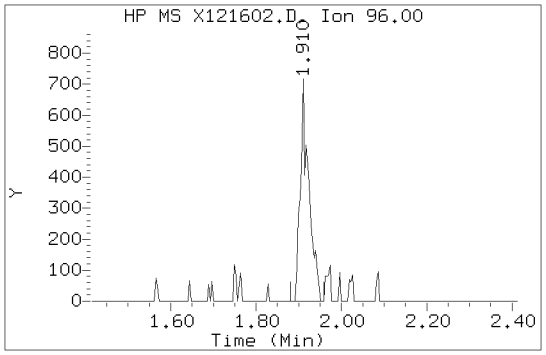
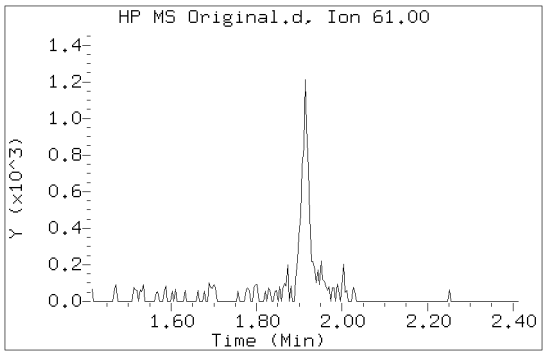
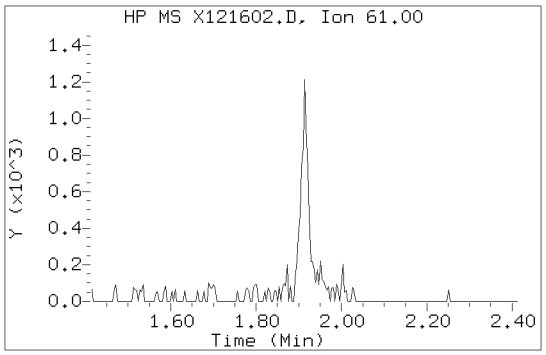
AREA
1010
HEIGHT
717
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
127
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



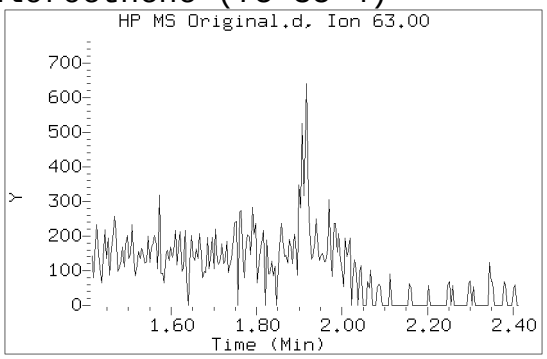
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

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

Reason Code:

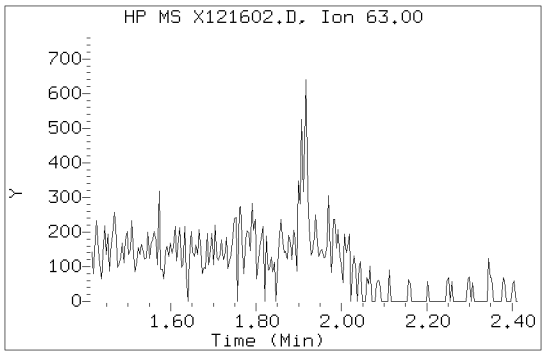
BEFORE

MASS
141
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

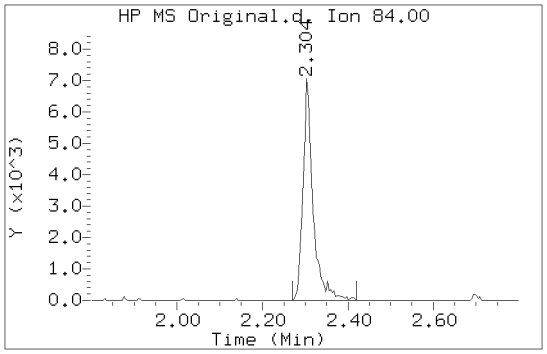


Methylene Chloride (75-09-2)

Reason Code:

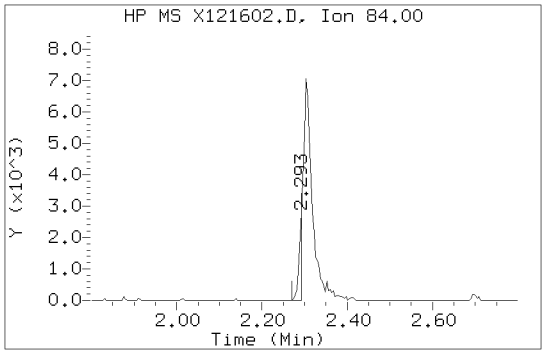
BEFORE

MASS
84
AREA
11777
HEIGHT
7057
16-Dec-2022
11:54
ALSHS
Server



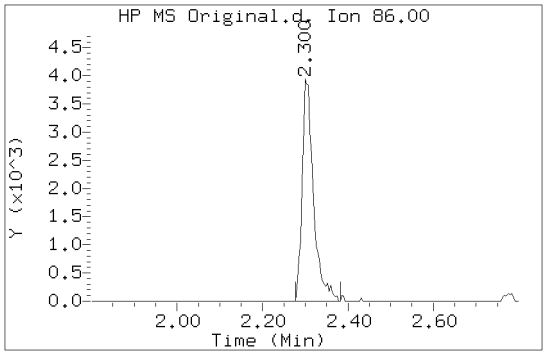
AFTER

MASS
84
AREA
1436
HEIGHT
2786
27-Dec-2022
16:07
ALSHS
Ser



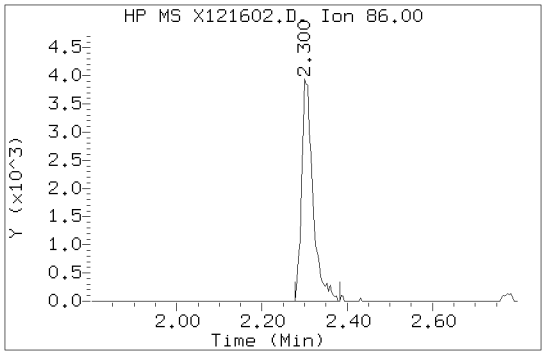
BEFORE

MASS
86
AREA
7453
HEIGHT
3944
16-Dec-2022
11:54
ALSHS
Server



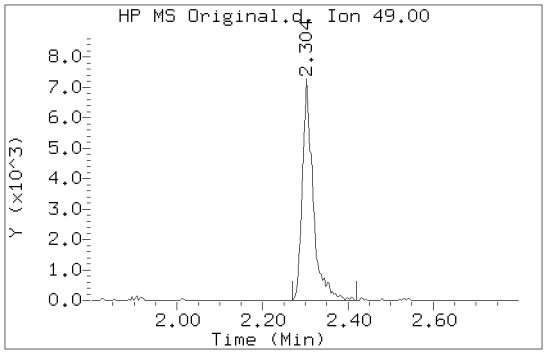
AFTER

MASS
86
AREA
7453
HEIGHT
3944
27-Dec-2022
16:07
ALSHS
Ser



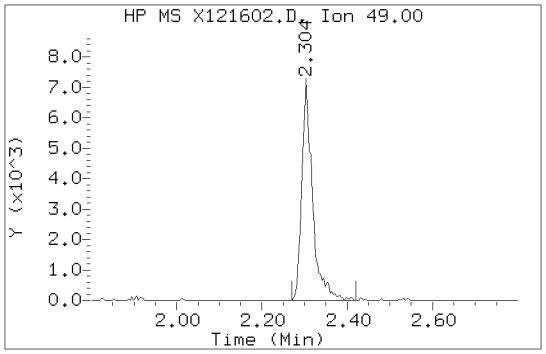
BEFORE

MASS
49
AREA
12974
HEIGHT
7289
16-Dec-2022
11:54
ALSHS
Server



AFTER

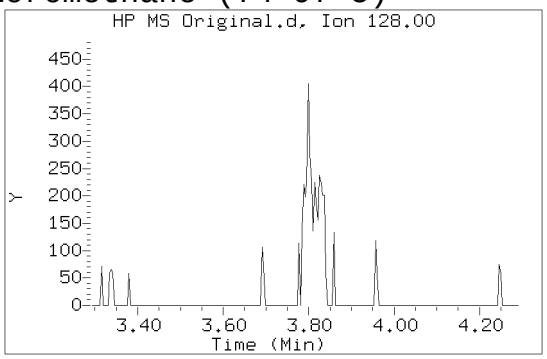
MASS
49
AREA
12974
HEIGHT
7289
27-Dec-2022
16:07
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

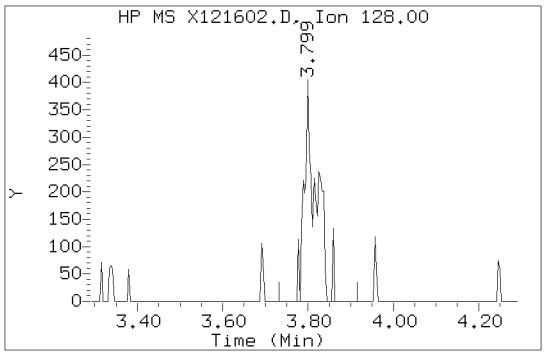
Bromochloromethane (74-97-5)

BEFORE
MASS
96
AREA
1402
HEIGHT
854
16-Dec-2022
11:54
ALSHS
Server

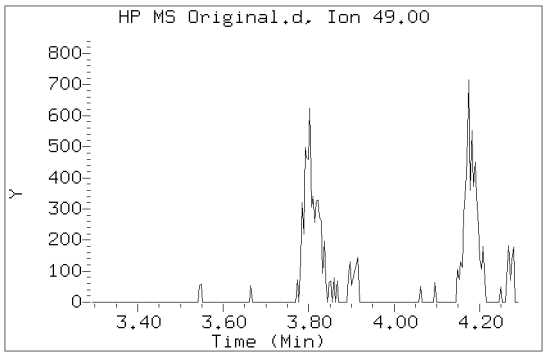


Reason Code:

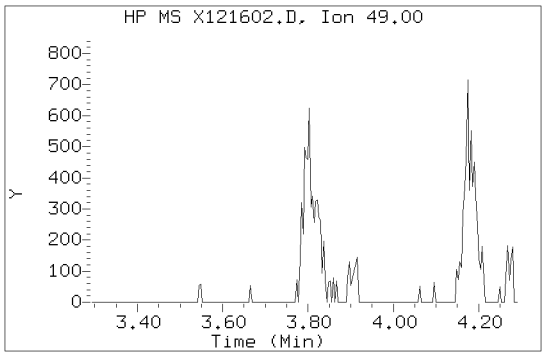
AFTER
MASS
128
AREA
802
HEIGHT
405
27-Dec-2022
16:07
ALSHS
Ser



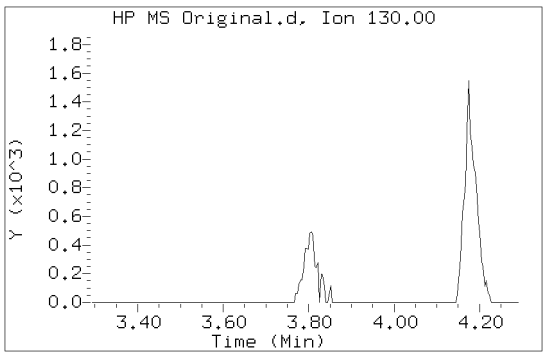
BEFORE
MASS
61
AREA
1975
HEIGHT
828
16-Dec-2022
11:54
ALSHS
Server



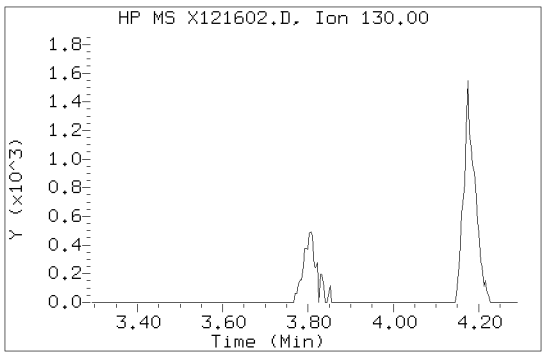
AFTER
MASS
49
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
98
AREA
1027
HEIGHT
608
16-Dec-2022
11:54
ALSHS
Server



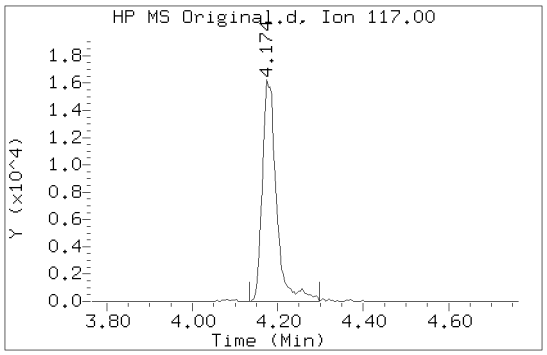
AFTER
MASS
130
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



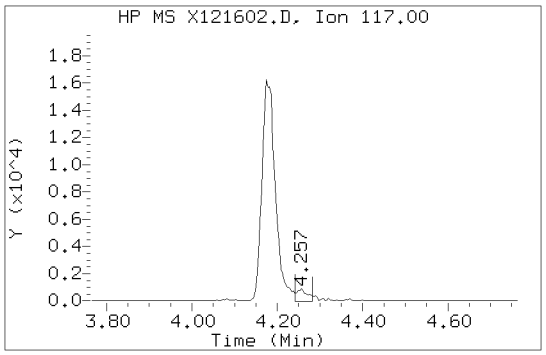
Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
MASS
97
AREA
1700
HEIGHT
1016
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
117
AREA
1685
HEIGHT
944
27-Dec-2022
16:07
ALSHS
Ser



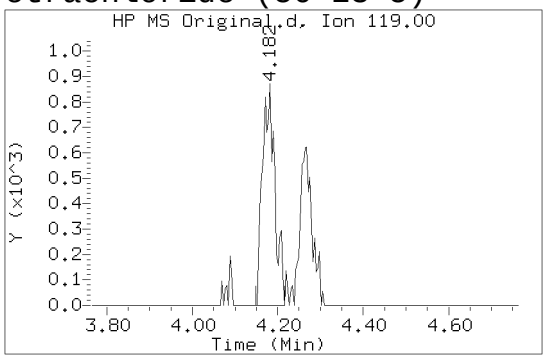
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Carbon Tetrachloride (56-23-5)

Reason Code:

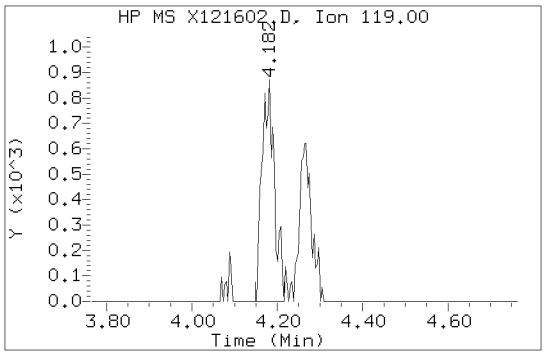
BEFORE

MASS
99
AREA
207130
HEIGHT
91368
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
119
AREA
1748
HEIGHT
872
27-Dec-2022
16:07
ALSHS
Ser

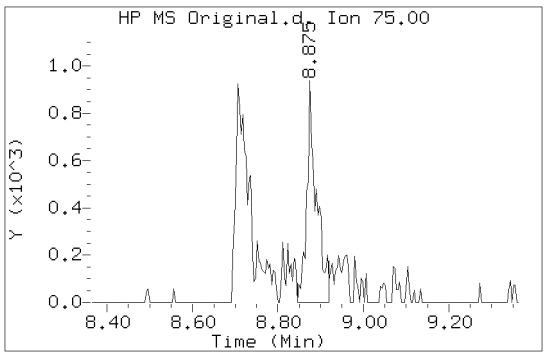


1,2,3-Trichloropropane (96-18-4)

Reason Code:

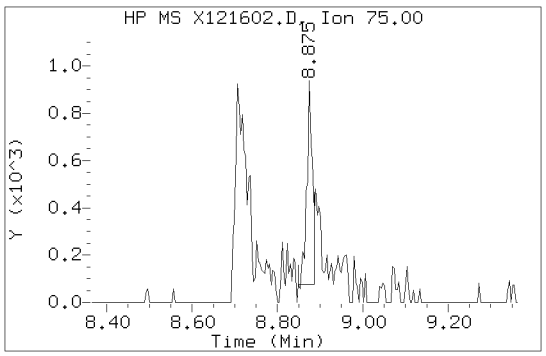
BEFORE

MASS
152
AREA
348702
HEIGHT
242350
16-Dec-2022
11:54
ALSHS
Server



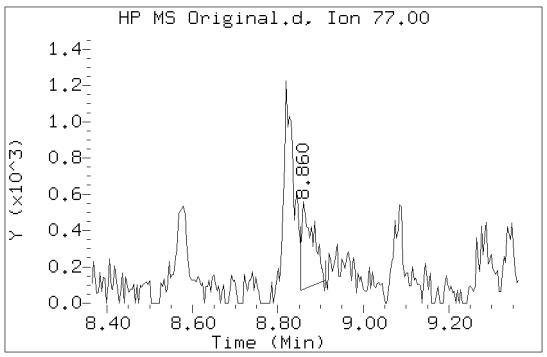
AFTER

MASS
75
AREA
766
HEIGHT
862
27-Dec-2022
16:07
ALSHS
Ser



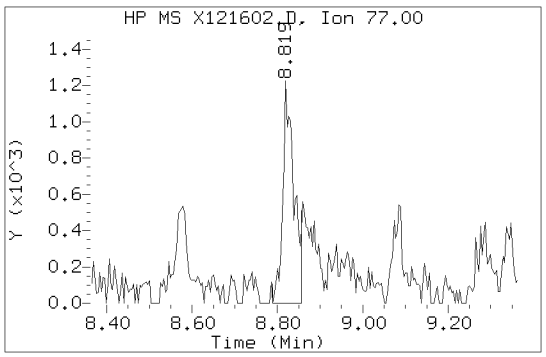
BEFORE

MASS
115
AREA
184413
HEIGHT
133835
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
77
AREA
2223
HEIGHT
1225
27-Dec-2022
16:07
ALSHS
Ser

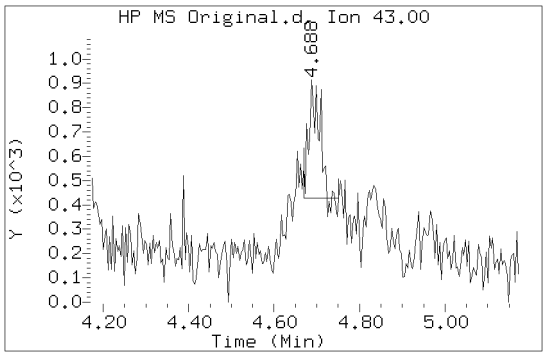


Isobutyl Alcohol (78-83-1)

Reason Code:

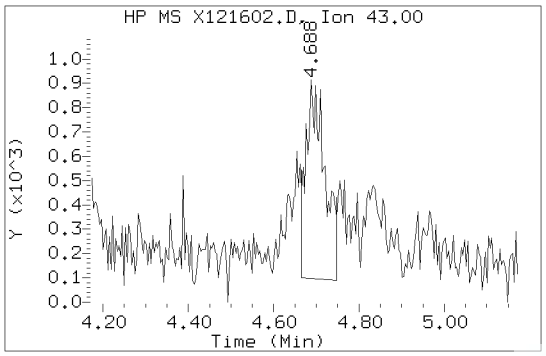
BEFORE

MASS
75
AREA
1475
HEIGHT
938
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
43
AREA
2537
HEIGHT
816
27-Dec-2022
16:07
ALSHS
Ser

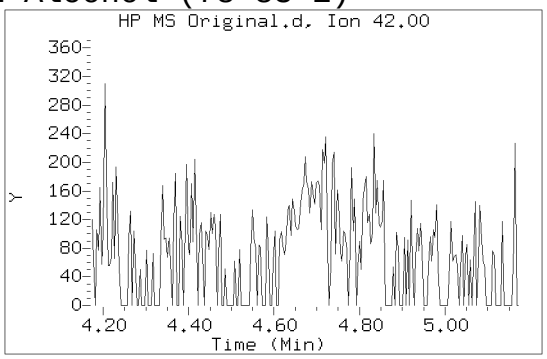


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Isobutyl Alcohol (78-83-1)

BEFORE

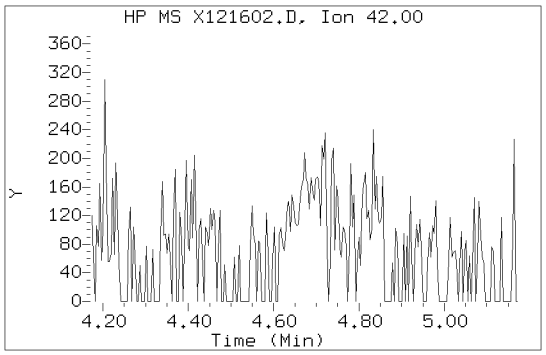
MASS
77
AREA
888
HEIGHT
483
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

AFTER

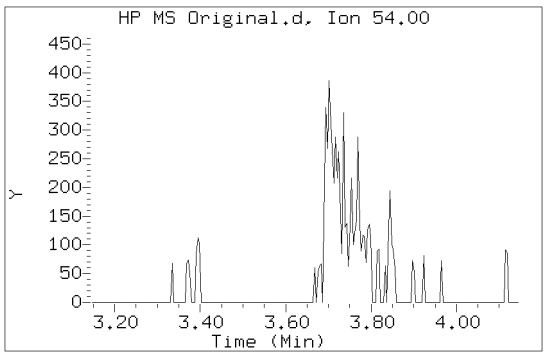
MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



Propionitrile (107-12-0)

BEFORE

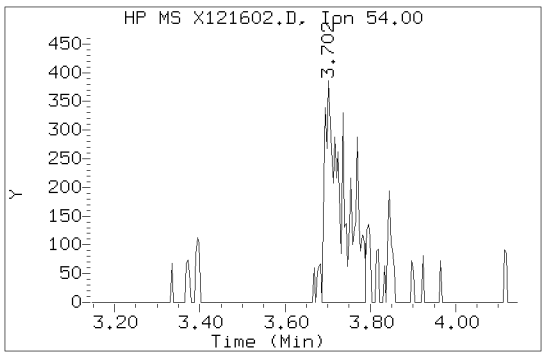
MASS
91
AREA
3881
HEIGHT
1822
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

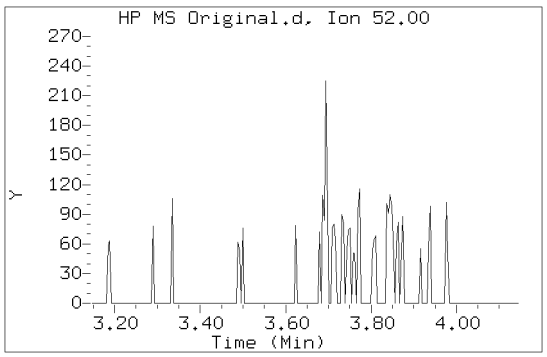
AFTER

MASS
54
AREA
1165
HEIGHT
386
27-Dec-2022
16:07
ALSHS
Ser



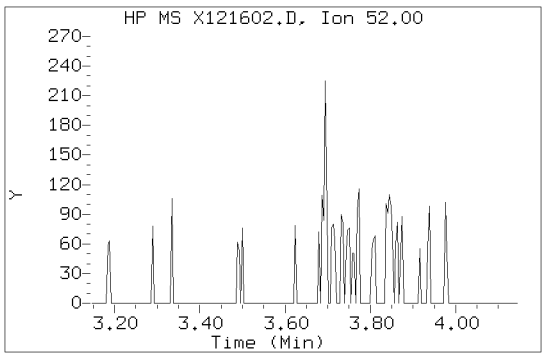
BEFORE

MASS
126
AREA
1511
HEIGHT
914
16-Dec-2022
11:54
ALSHS
Server



AFTER

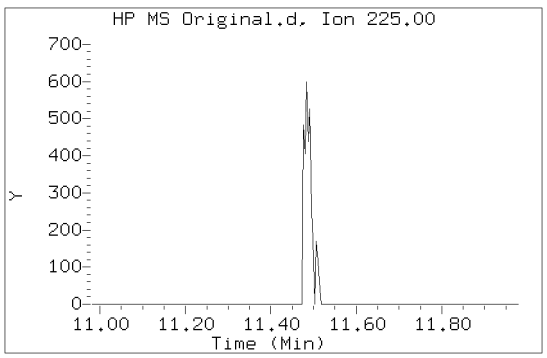
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



Hexachlorobutadiene (87-68-3)

BEFORE

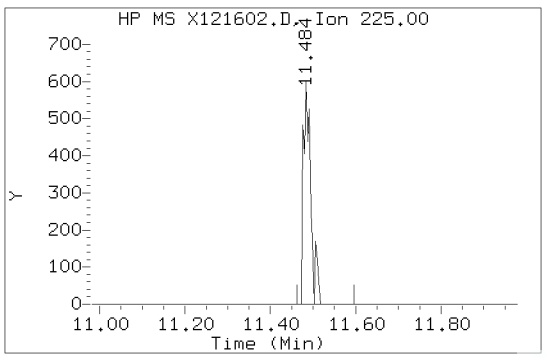
MASS
155
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

AFTER

MASS
225
AREA
726
HEIGHT
599
27-Dec-2022
16:07
ALSHS
Ser

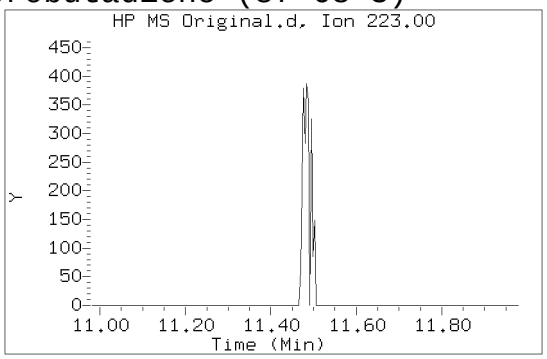


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

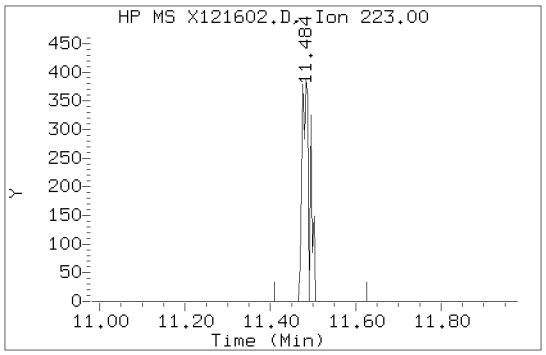
Hexachlorobutadiene (87-68-3)

Reason Code:

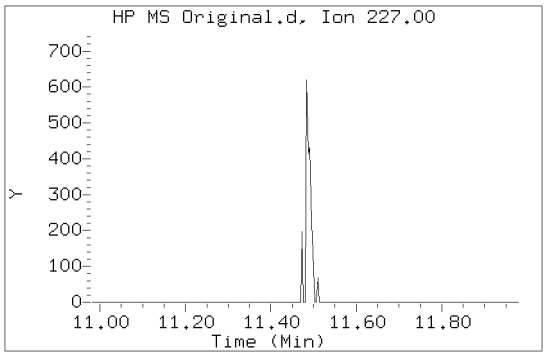
BEFORE
MASS
157
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



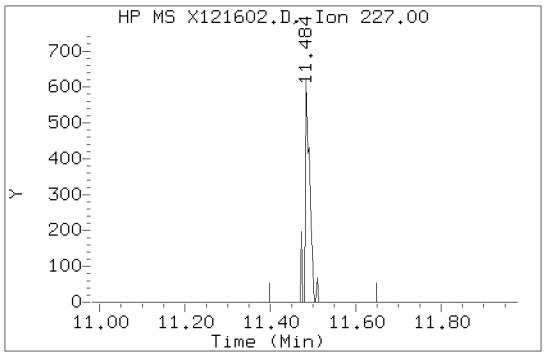
AFTER
MASS
223
AREA
502
HEIGHT
387
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
75
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



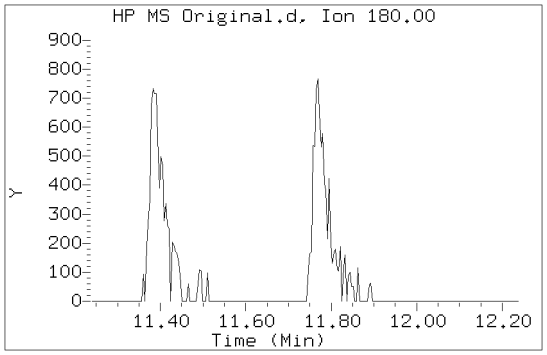
AFTER
MASS
227
AREA
469
HEIGHT
620
27-Dec-2022
16:07
ALSHS
Ser



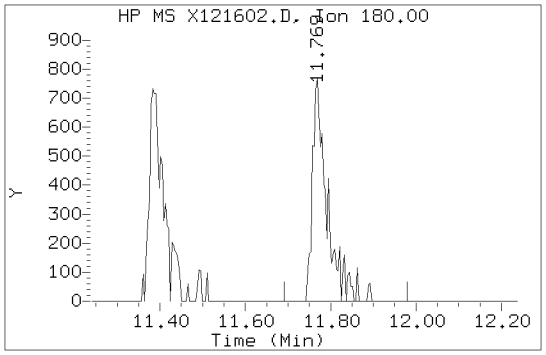
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
225
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
180
AREA
1816
HEIGHT
766
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
223
AREA
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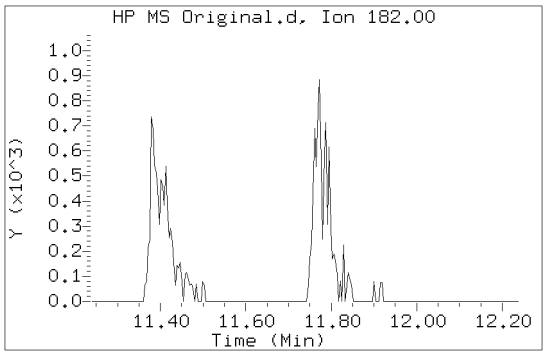
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER
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HEIGHT
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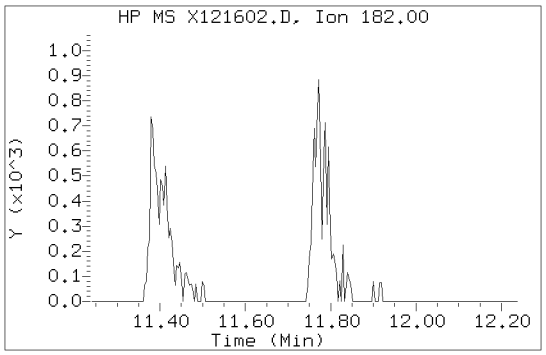
27-Dec-2022
16:07
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

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

Reason Code:

BEFORE

MASS
227
AREA
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HEIGHT
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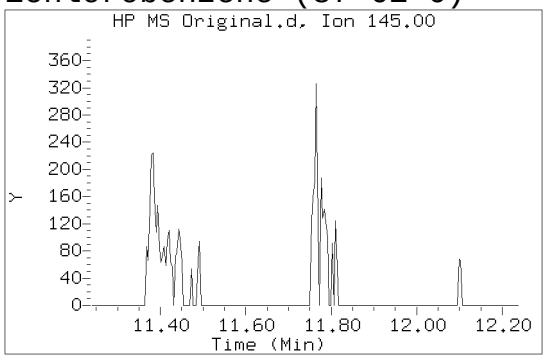
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
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HEIGHT
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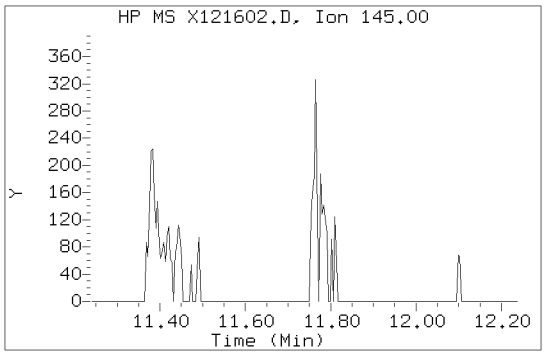
27-Dec-2022
16:07
ALSHS
Ser



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

Reason Code:

BEFORE

MASS
53
AREA
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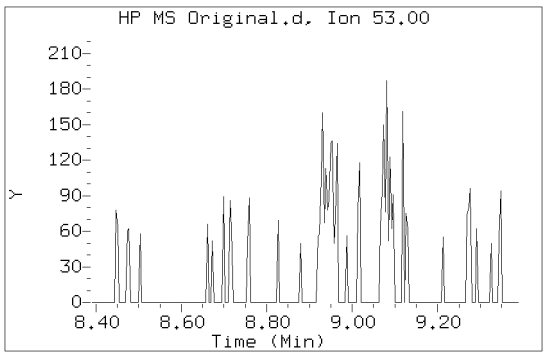
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
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AREA
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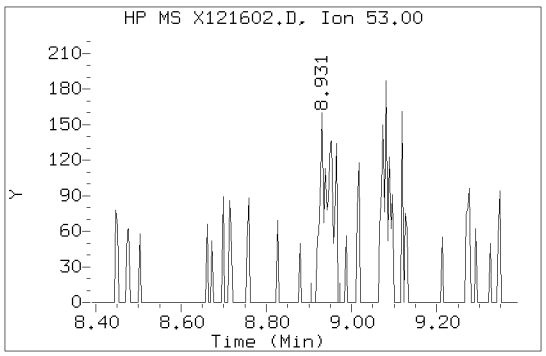
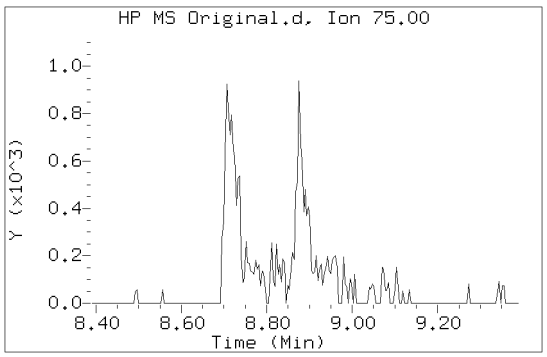
HEIGHT
160
27-Dec-2022
16:07
ALSHS
Ser



BEFORE

MASS
88
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

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HEIGHT
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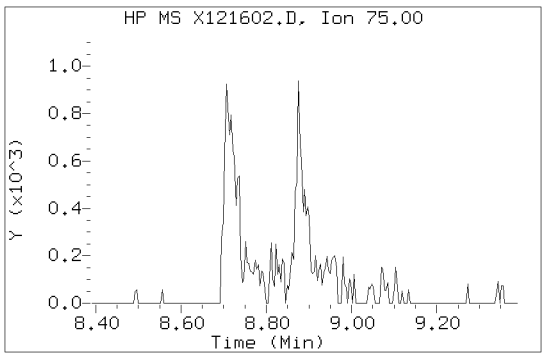
27-Dec-2022
16:07
ALSHS
Ser



1,4-Dioxane ()

Reason Code:

BEFORE

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57
AREA
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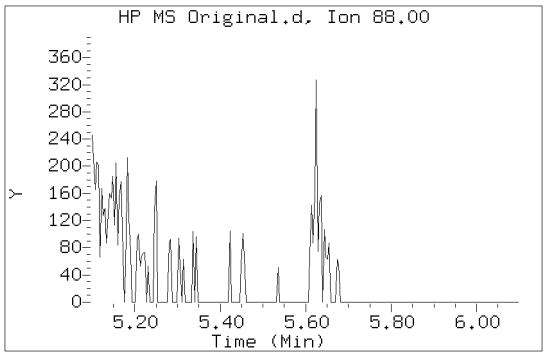
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
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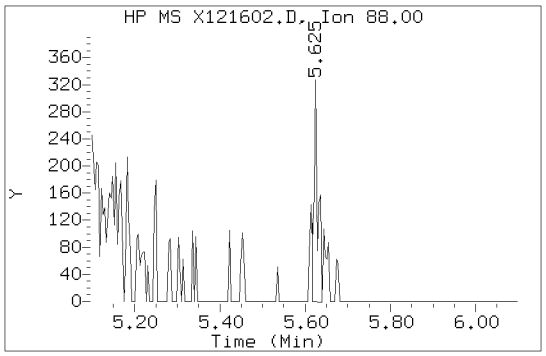
AREA
214
HEIGHT
327
27-Dec-2022
16:07
ALSHS
Ser



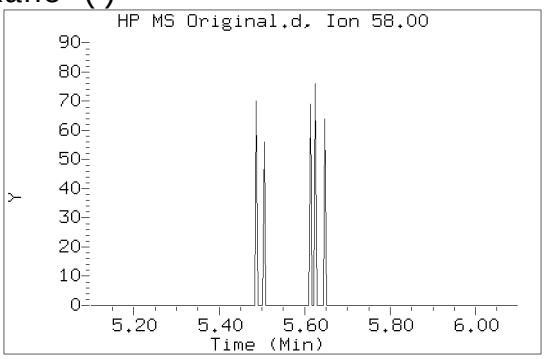
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

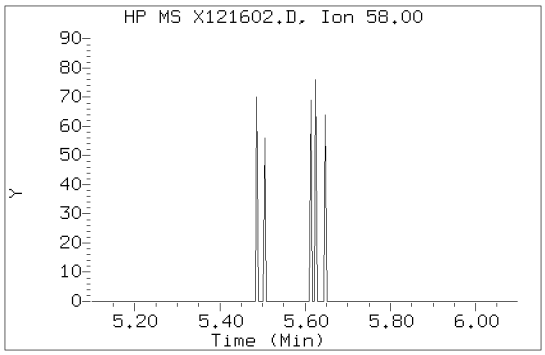
BEFORE

MASS
41
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



Cyclohexane (110-82-7)

Reason Code:

BEFORE

MASS
42
AREA
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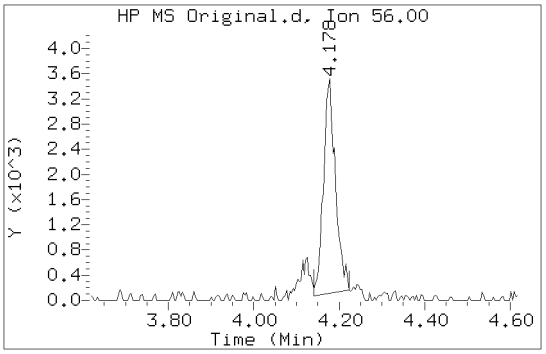
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
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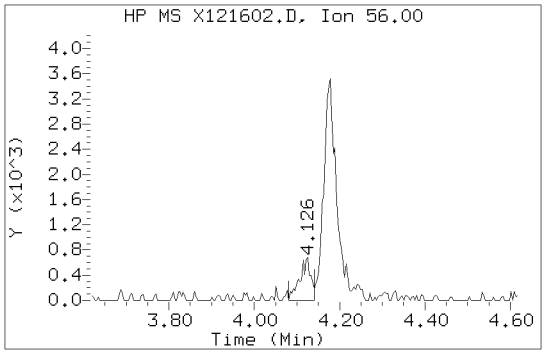
AREA
1235
HEIGHT
682
27-Dec-2022
16:07
ALSHS
Ser



BEFORE

MASS
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AREA
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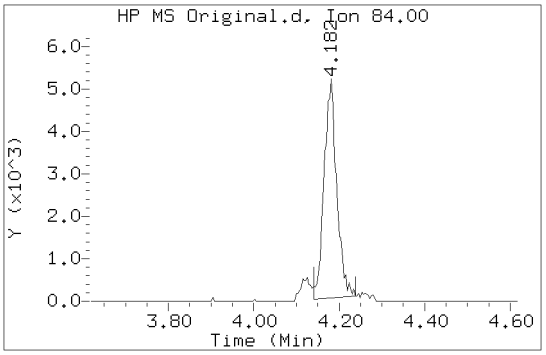
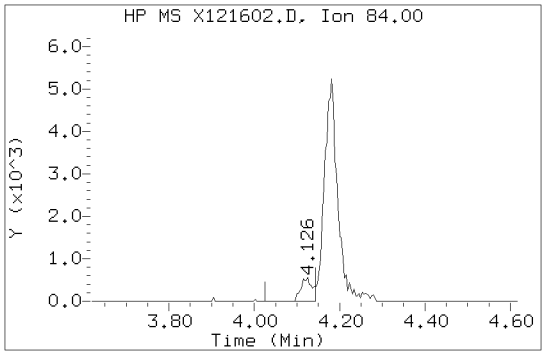
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
84
AREA
1062
HEIGHT
557
27-Dec-2022
16:07
ALSHS
Ser

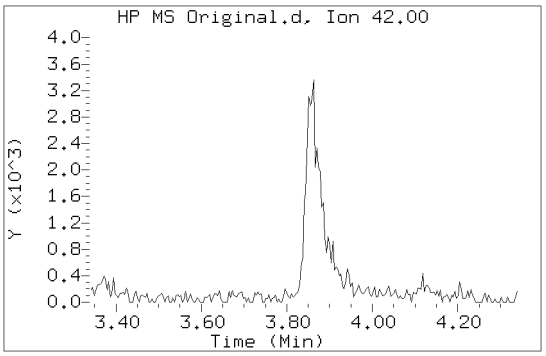


Tetrahydrofuran (109-99-9)

Reason Code:

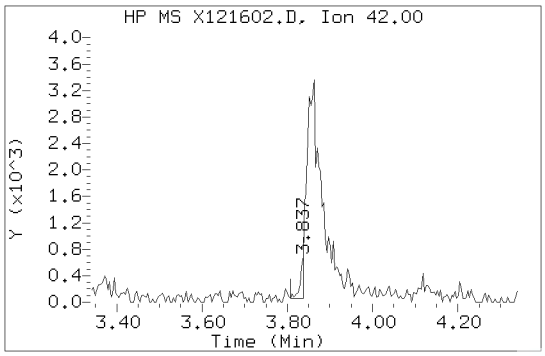
BEFORE

MASS
101
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
42
AREA
358
HEIGHT
628
27-Dec-2022
16:07
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

MASS
151
AREA
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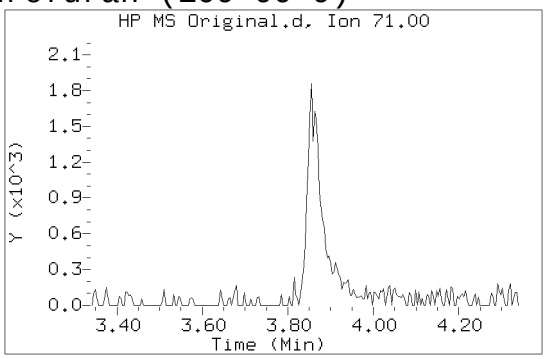
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
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AREA
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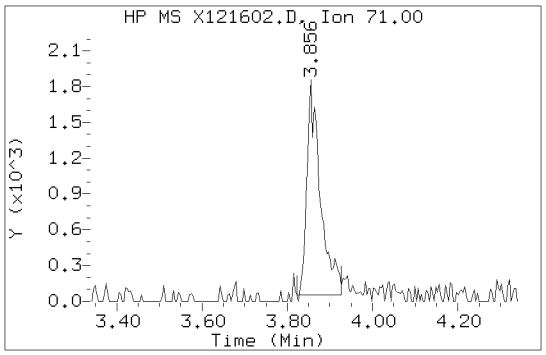
HEIGHT
1803
27-Dec-2022
16:07
ALSHS
Ser



Freon TF (76-13-1)

Reason Code:

BEFORE

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118
AREA
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HEIGHT
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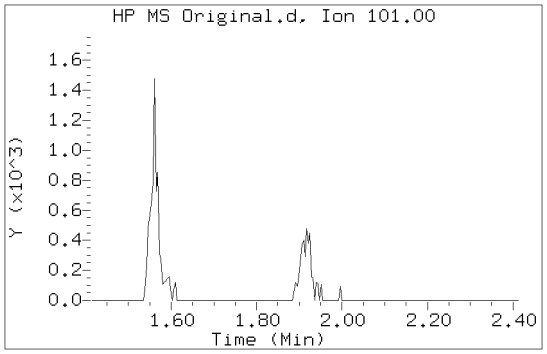
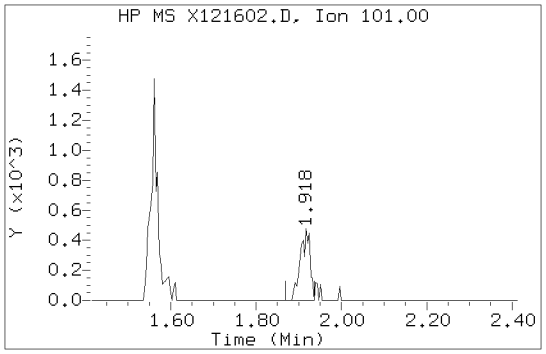
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
101
AREA
765
HEIGHT
479
27-Dec-2022
16:07
ALSHS
Ser



BEFORE

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AREA
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HEIGHT
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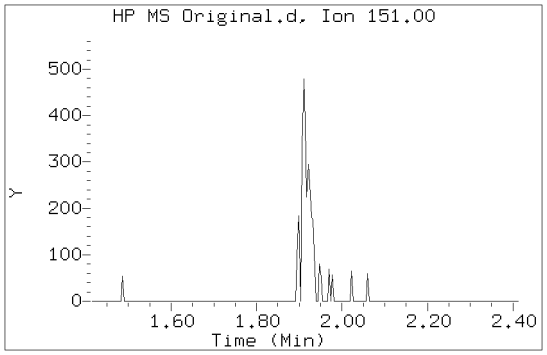
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
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AREA
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HEIGHT
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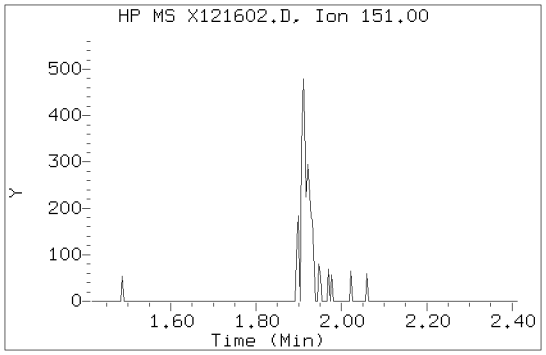
27-Dec-2022
16:07
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 16-DEC-2022 12:20
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 11:38 Cal File: X121602.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	461469	50.0000	
135	1,4-Dioxane	88	5.625	5.625	(1.346)	462	10.0000	10.95(M)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	1793	0.50000	0.56(M)
25	Methacrylonitrile	41	3.848	3.848	(0.921)	2066	0.50000	0.63(M)
12	Isobutyl Alcohol	43	4.695	4.695	(1.124)	5178	10.0000	9.97(M)
13	Acetonitrile	39	2.210	2.210	(0.529)	2204	5.00000	5.24(M)
14	Allyl Chloride	41	2.206	2.206	(0.528)	4574	0.50000	0.57(M)
4	Propionitrile	54	3.686	3.686	(0.882)	2777	5.00000	5.89(M)
136	n-Hexane	57	2.772	2.772	(0.664)	1909	0.50000	0.57(M)
72	trans-1,4-Dichloro-2-butene	53	8.931	8.931	(1.165)	792	0.50000	0.56(M)
23	Chloroprene	53	1.771	1.771	(0.424)	900	0.50000	0.57(M)
145	alpha-Methylstyrene	118	9.272	9.272	(0.960)	4701	0.50000	0.60
200	Dimethyl Disulfide	94	6.202	6.202	(0.809)	5153	0.50000	0.59(M)
139	Diethyl ether	59	1.760	1.760	(0.421)	1864	0.50000	0.60
130	Ethyl Acetate	43	3.679	3.679	(0.881)	2065	0.50000	0.57(M)
40	Methyl Methacrylate	41	5.628	5.628	(1.347)	1788	0.50000	0.56(M)
49	Ethyl Methacrylate	69	6.727	6.727	(1.355)	1935	0.50000	0.59(M)
132	n-Butanol	56	5.291	5.291	(1.266)	622	10.0000	50.83(M)
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	900	1.00000	(M)
150	Allyl alcohol	57	2.772	2.772	(0.664)	3089	10.0000	17.23

166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	9626	0.50000	0.57(M)
131 Methyl Acrylate	55	3.743	3.743 (0.896)	1765	0.50000	0.56(M)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D Page 2
Report Date: 27-Dec-2022 16:07

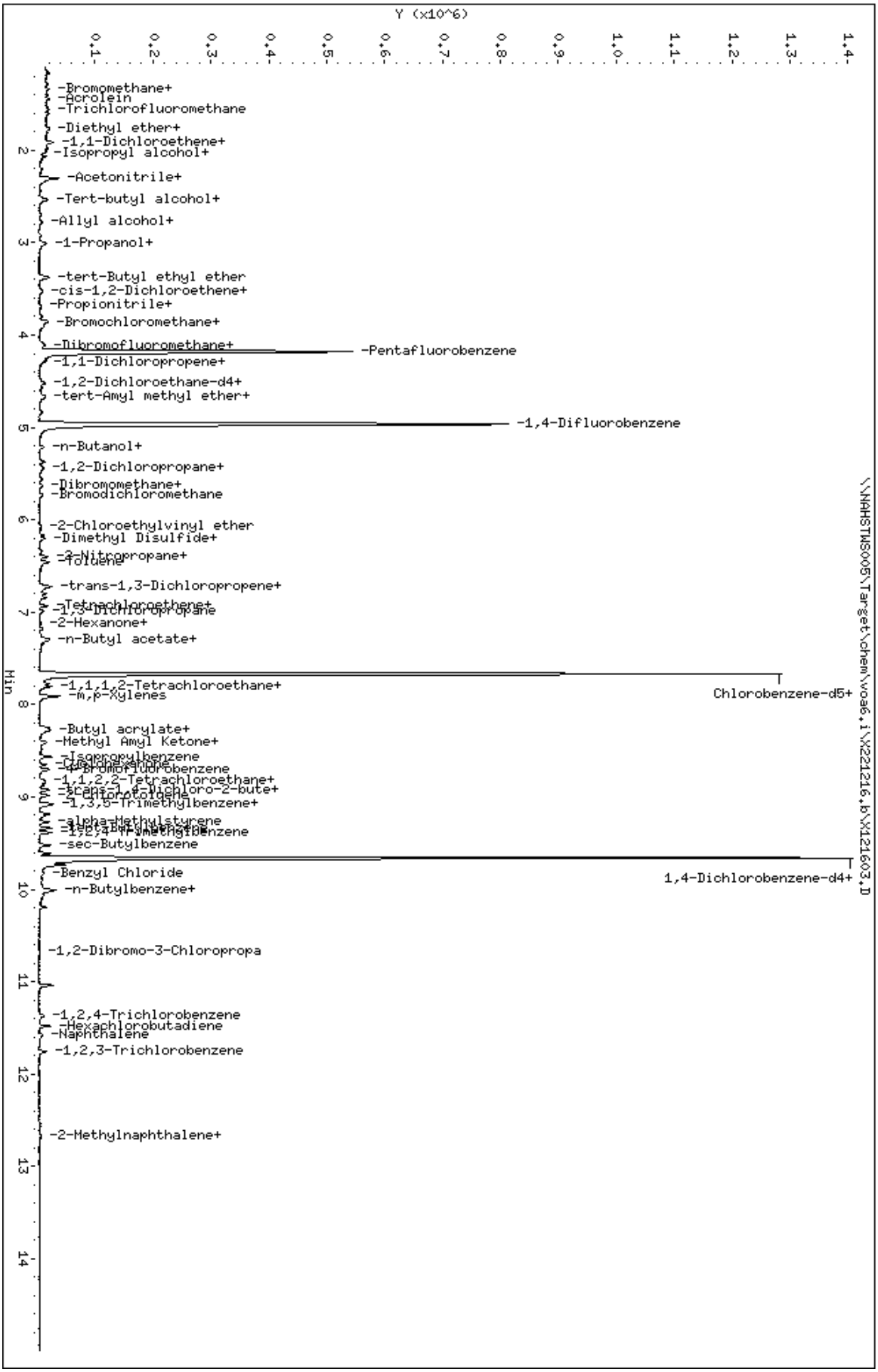
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	162	Butyl acrylate	55	8.271	8.271	(1.079)	4718	0.50000	0.55(M)
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1990	0.50000	1.00(M)
	3	Chloromethane	50	1.077	1.077	(0.258)	2466	0.50000	2.77(M)
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	2412	0.50000	0.59(M)
	6	Bromomethane	94	1.336	1.336	(0.320)	1893	0.50000	2.36(M)
	7	Chloroethane	64	1.407	1.407	(0.337)	1653	0.50000	0.58(M)
	8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	3286	0.50000	0.58(M)
	9	Acrolein	56	1.441	1.441	(0.345)	440	1.00000	4.17(M)
	10	Acetone	43	1.977	1.977	(0.473)	2669	1.00000	2.02(M)
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	2037	0.50000	0.58(M)
	15	Iodomethane	142	2.026	2.026	(0.485)	2397	1.00000	3.84(TM)
	16	Acrylonitrile	53	2.566	2.566	(0.614)	1118	1.00000	0.94(M)
	17	Methylene Chloride	84	2.296	2.296	(0.550)	2938	0.50000	0.61(M)
	18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	5841	0.50000	0.50(M)
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	9921	1.00000	1.08(M)
	20	trans-1,2-Dichloroethene	96	2.543	2.543	(0.609)	2218	0.50000	0.56(M)
	21	Vinyl Acetate	43	3.023	3.023	(0.724)	10138	1.00000	1.00(M)
	22	1,1-Dichloroethane	63	2.926	2.926	(0.700)	3874	0.50000	0.56(M)
	24	2-Butanone	43	3.649	3.649	(0.873)	1292	1.00000	3.93(M)
	26	2,2-Dichloropropane	77	3.514	3.514	(0.841)	3238	0.50000	0.55(M)
	27	cis-1,2-Dichloroethene	96	3.544	3.544	(0.848)	2852	0.50000	0.59
	28	Chloroform	83	3.908	3.908	(0.935)	4040	0.50000	0.52(M)
	29	Bromochloromethane	128	3.799	3.799	(0.909)	1481	0.50000	0.56
$	30	Dibromofluoromethane	113	4.110	4.110	(0.984)	2321	0.50000	0.35
	31	1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	3512	0.50000	0.57(M)
	32	1,1-Dichloropropene	75	4.290	4.290	(0.864)	2468	0.50000	0.50(M)
	33	1,2-Dichloroethane	62	4.567	4.567	(0.920)	3129	0.50000	0.55(M)
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	2763	0.50000	0.52(MH)
$	35	1,2-Dichloroethane-d4	65	4.481	4.481	(1.073)	2849	0.50000	0.87(T)
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	687671	50.0000	
	37	Benzene	78	4.519	4.519	(0.910)	9243	0.50000	0.56
	38	Trichloroethene	130	5.216	5.216	(1.051)	2583	0.50000	0.55(M)
	39	Bromodichloromethane	83	5.730	5.730	(1.154)	3650	0.50000	0.59(M)
	41	2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	1861	1.00000	1.06(M)
	42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	2449	0.50000	0.56(M)
	44	Dibromomethane	93	5.557	5.557	(1.119)	1725	0.50000	0.58
	45	4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	3741	1.00000	1.08(M)
	46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	3695	0.50000	0.51(M)
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	645291	50.0000	
$	48	Toluene-d8	98	6.401	6.401	(0.835)	9525	0.50000	0.59
	50	Toluene	91	6.460	6.460	(0.843)	10374	0.50000	0.58(M)
	51	trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	3042	0.50000	0.50
	52	2-Hexanone	43	7.117	7.117	(0.928)	2580	1.00000	1.09
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	2092	0.50000	0.58(M)
	54	1,3-Dichloropropane	76	6.993	6.993	(0.912)	4005	0.50000	0.56(M)
	55	Dibromochloromethane	129	7.180	7.180	(0.936)	2827	0.50000	0.54
	56	Tetrachloroethene	164	6.933	6.933	(0.904)	2131	0.50000	0.57(M)
	57	1,2-Dibromoethane	107	7.270	7.270	(0.948)	2340	0.50000	0.52(M)
	58	1-Chlorohexane	55	7.705	7.705	(1.552)	1829	0.50000	0.55(MH)
	59	Chlorobenzene	112	7.694	7.694	(1.003)	7747	0.50000	0.61
	60	1,1,1,2-Tetrachloroethane	131	7.784	7.784	(1.015)	2741	0.50000	0.58(M)
	61	Ethylbenzene	106	7.806	7.806	(1.018)	3064	0.50000	0.51(M)

62 m,p-Xylenes	106	7.911	7.911 (1.032)	9016	1.00000	1.17(M)
63 o-Xylene	106	8.252	8.252 (1.076)	4412	0.50000	0.58(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	64 Styrene	104	8.286	8.286	(1.081)	6634	0.50000	0.52(M)
	66 Bromoform	173	8.421	8.421	(1.098)	2013	0.50000	0.56(TM)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	8757	0.50000	0.50(M)
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	3194	0.50000	0.57(M)
$	69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	3870	0.50000	0.71(M)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	347824	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2019	0.50000	0.52(M)
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	11163	0.50000	0.57(M)
	74 Bromobenzene	156	8.818	8.818	(0.913)	3147	0.50000	0.55(M)
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	7182	0.50000	0.50(M)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	6718	0.50000	0.53(M)
	77 4-Chlorotoluene	91	9.088	9.088	(0.941)	7644	0.50000	0.53(M)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	6389	0.50000	0.54(M)
	79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	8496	0.50000	0.56(M)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	7938	0.50000	0.51(M)
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	7343	0.50000	0.52(M)
	83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	4677	0.50000	0.49(M)
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	5674	0.50000	0.54(M)
	86 Benzyl Chloride	91	9.831	9.831	(1.282)	3642	0.50000	3.03
	87 n-Butylbenzene	91	10.014	10.014	(1.036)	5149	0.50000	2.14(M)
	88 1,2-Dichlorobenzene	146	10.010	10.010	(1.036)	5504	0.50000	0.56(M)
	89 1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	441	0.50000	0.58(M)
	90 1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	3187	0.50000	0.51(M)
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	1477	0.50000	0.49(M)
	92 Naphthalene	128	11.581	11.581	(1.199)	7025	0.50000	0.50
	93 1,2,3-Trichlorobenzene	180	11.765	11.765	(1.218)	3572	0.50000	0.60(M)
M	94 1,2-Dichloroethylene (total)	96				5070	1.00000	
M	95 Xylenes (total)	106				13428	1.50000	
	141 Cyclohexane	56	4.114	4.114	(0.985)	2803	0.50000	1.84(M)
	138 Freon TF	101	1.917	1.917	(0.459)	1851	0.50000	0.54(M)
	147 Methylcyclohexane	55	5.415	5.415	(1.091)	4781	0.50000	0.56(M)
	146 Methyl Acetate	43	2.240	2.240	(0.536)	1269	0.50000	0.61(M)

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 16-DEC-2022 12:20
Client ID: VSTD000,5
Sample Info: VSTD000,5;VSTD000,5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

m,p-Xylenes ()

Reason Code:

BEFORE
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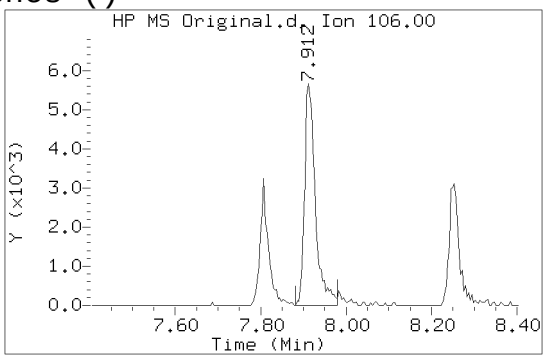
AREA
10070
HEIGHT
5666
27-Dec-2022
16:03
linh
pham



AFTER
MASS
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9016
HEIGHT
5666
27-Dec-2022
16:07
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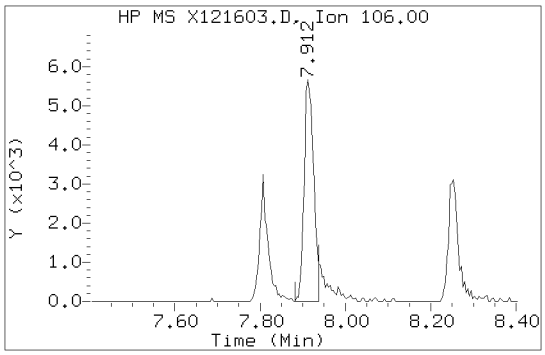

BEFORE
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91
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19887
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11768
27-Dec-2022
16:03
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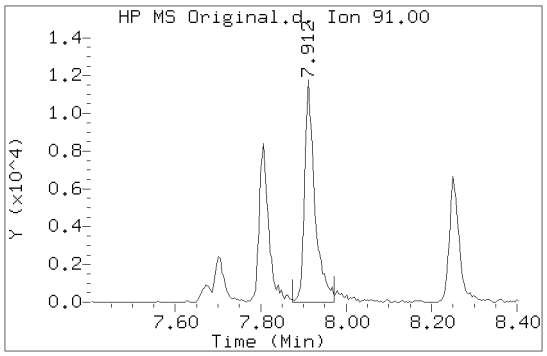

AFTER
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16:07
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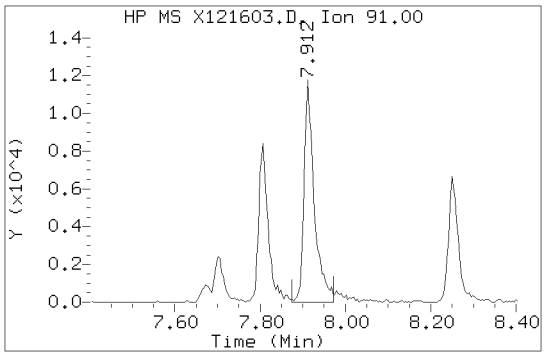

Dichlorodifluoromethane (75-71-8)

Reason Code:

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2242
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27-Dec-2022
16:03
linh
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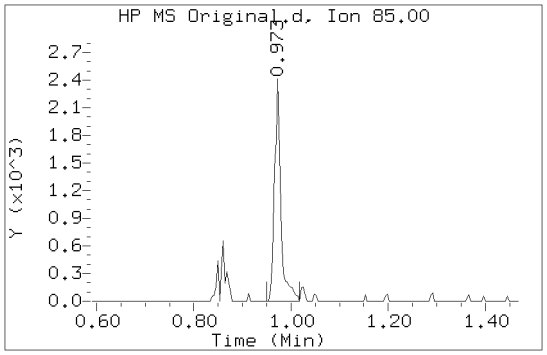

AFTER
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AREA
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2413
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16:07
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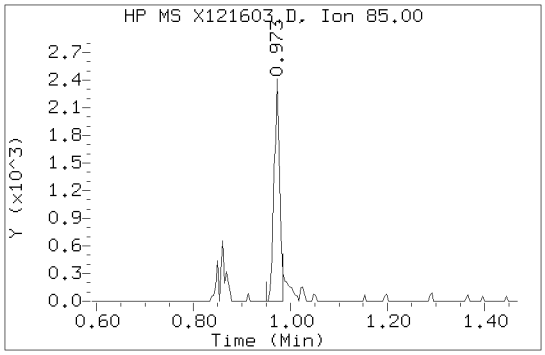

BEFORE
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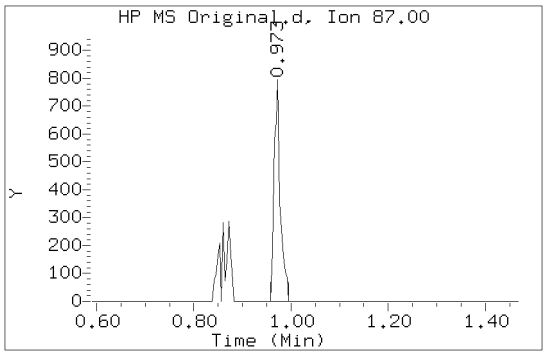
87
AREA
713
HEIGHT
795
27-Dec-2022
16:03
linh
pham



AFTER
MASS
87
AREA
713
HEIGHT
795
27-Dec-2022
16:07
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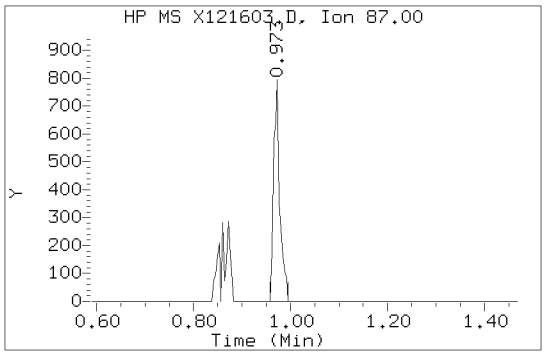

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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Chloromethane (74-87-3)

BEFORE

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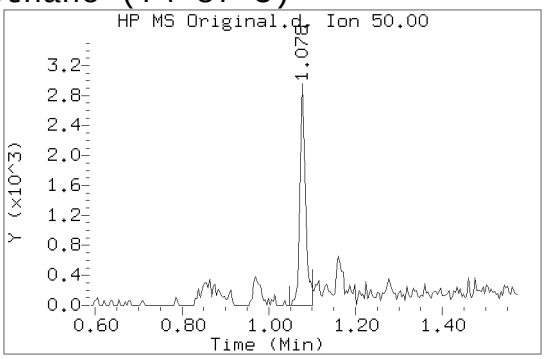
AREA
2589
HEIGHT
2959
27-Dec-2022
16:03
linh
pham



BEFORE

MASS
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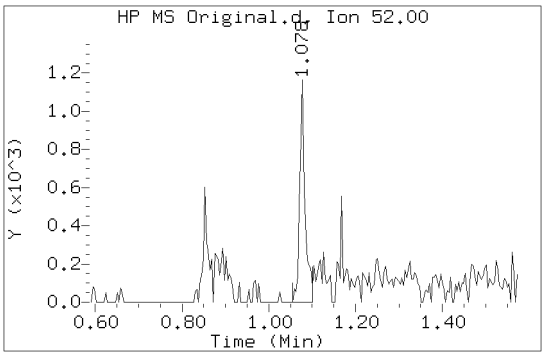
AREA
985
HEIGHT
1164
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
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AREA
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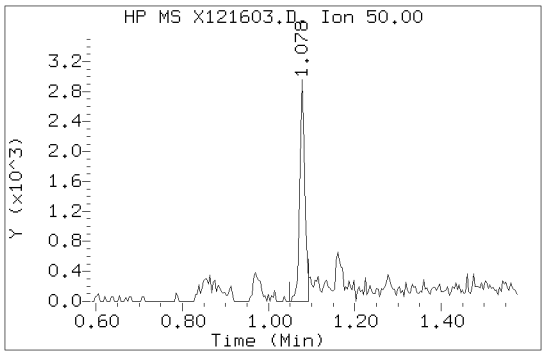
HEIGHT
2959
27-Dec-2022
16:07
linh
pham



AFTER

MASS
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AREA
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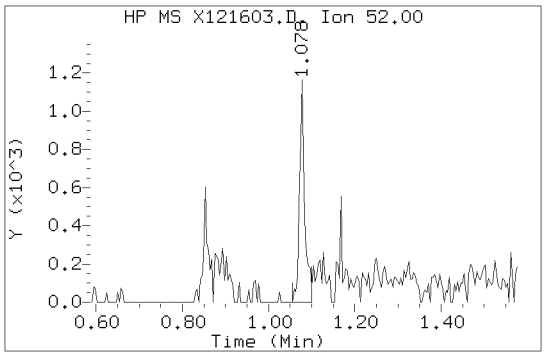
HEIGHT
1164
27-Dec-2022
16:07
linh
pham



Vinyl Chloride (75-01-4)

BEFORE

MASS
62
AREA
3132
HEIGHT
2337
27-Dec-2022
16:03
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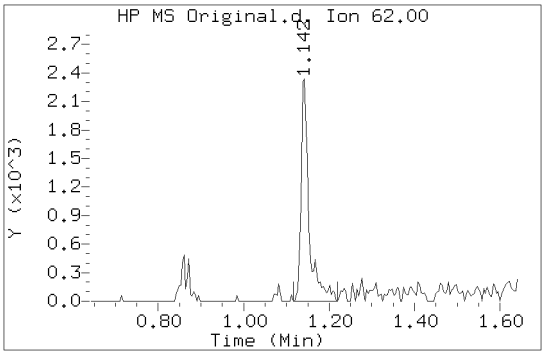
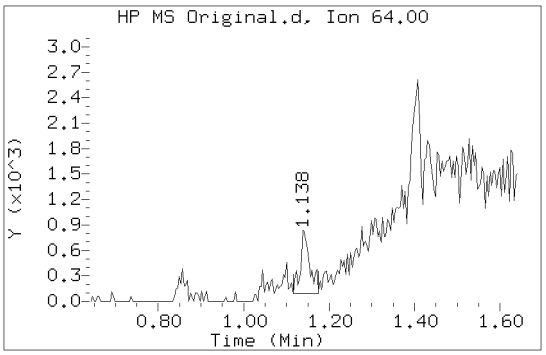
pham



BEFORE

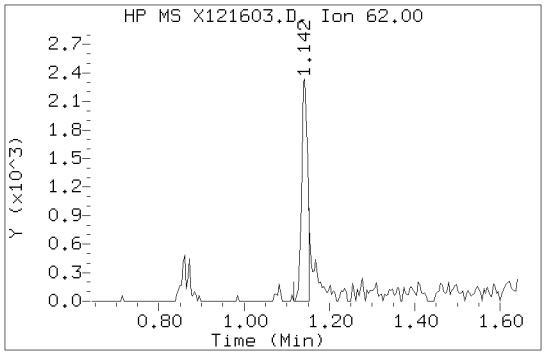
MASS
64
AREA
1174
HEIGHT
750
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
62
AREA
2412
HEIGHT
2337
27-Dec-2022
16:07
linh
pham



AFTER

MASS
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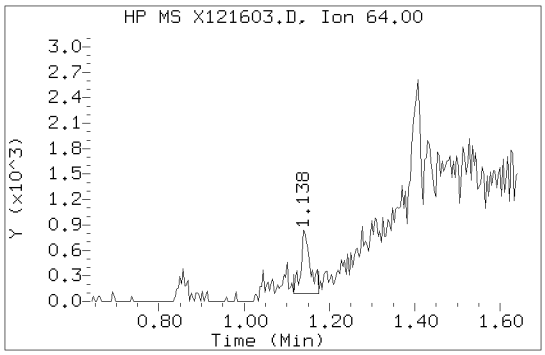
AREA
1174
HEIGHT
750
27-Dec-2022
16:07
linh
pham



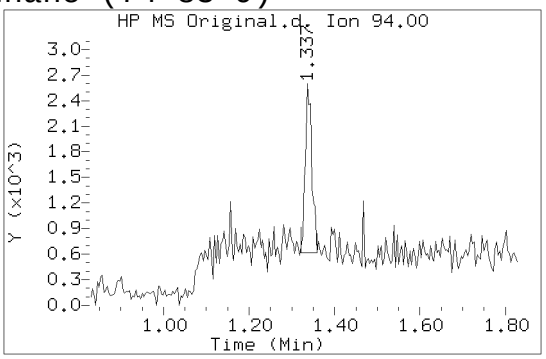
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromomethane (74-83-9)

Reason Code:

BEFORE

MASS
94
AREA
2146
HEIGHT
1983
27-Dec-2022
16:03
linh
pham



AFTER

MASS
94
AREA
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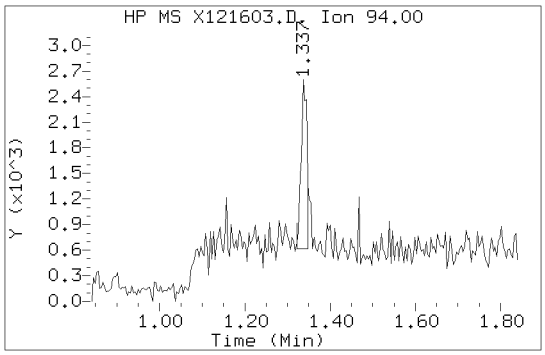
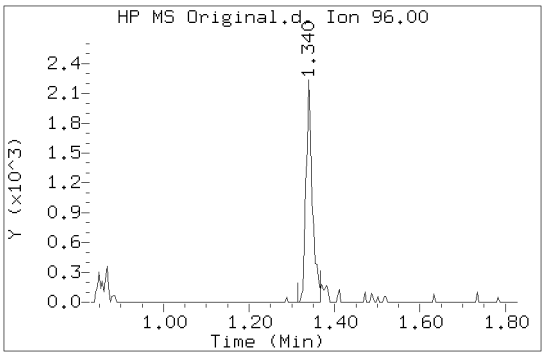
HEIGHT
1983
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
96
AREA
2304
HEIGHT
2236
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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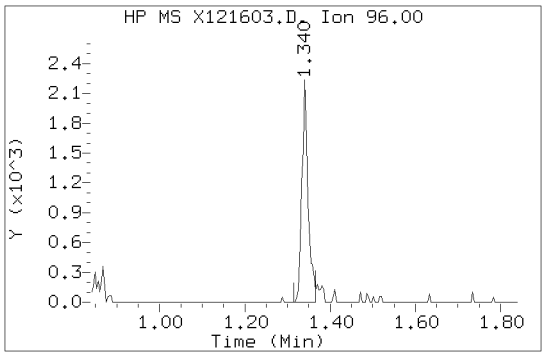
AREA
2304
HEIGHT
2236
27-Dec-2022
16:07
linh
pham



Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
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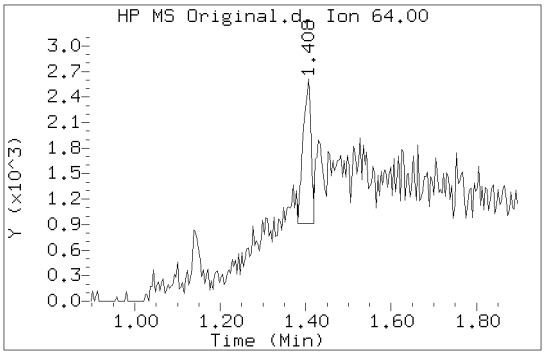
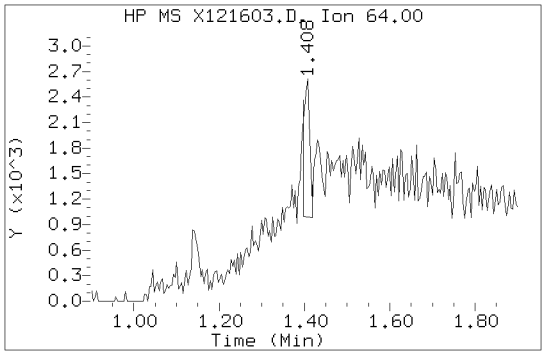
AREA
2196
HEIGHT
1702
27-Dec-2022
16:03
linh
pham



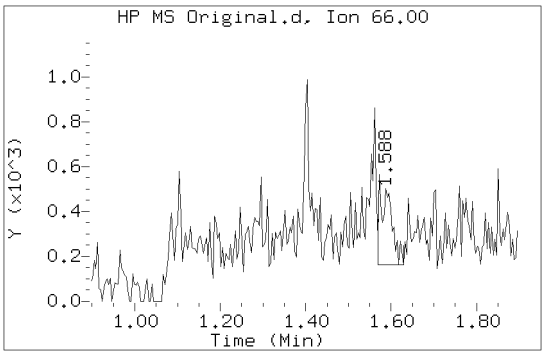
AFTER

MASS
64
AREA
1653
HEIGHT
1624
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
66
AREA
677
HEIGHT
340
27-Dec-2022
16:03
linh
pham



AFTER

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27-Dec-2022
16:07
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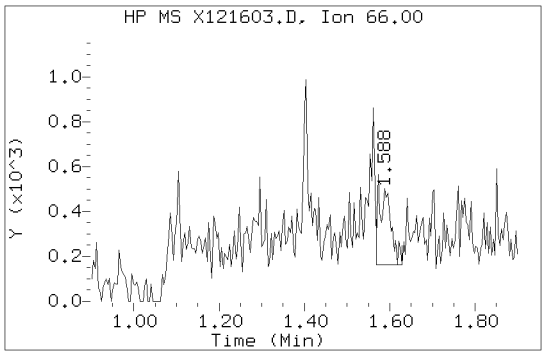

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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE

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AREA
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HEIGHT
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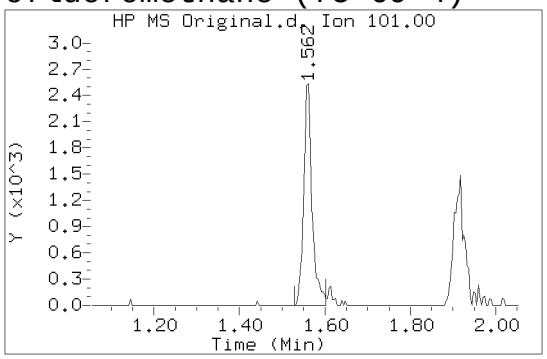
27-Dec-2022
16:03
linh
pham



AFTER

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27-Dec-2022
16:07
linh
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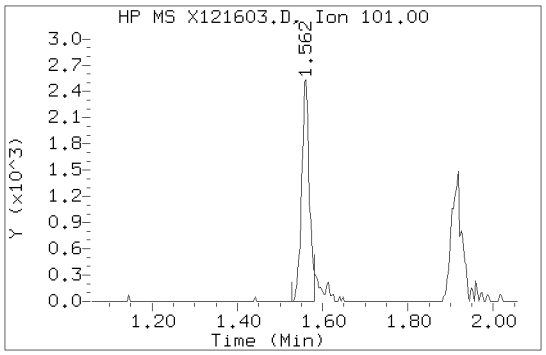

BEFORE

MASS
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AREA
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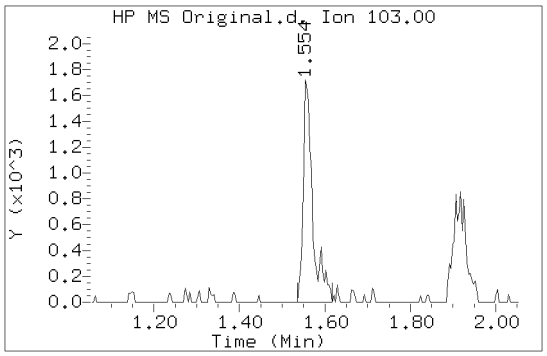
27-Dec-2022
16:03
linh
pham



AFTER

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27-Dec-2022
16:07
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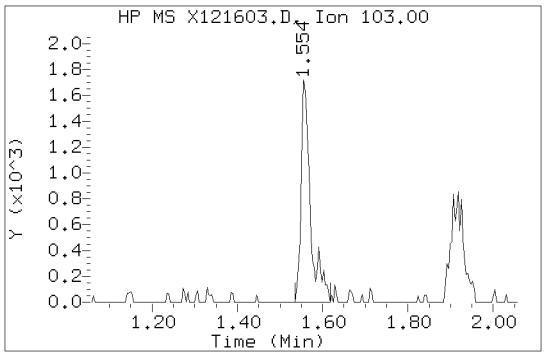

Acrolein (107-02-8)

Reason Code:

BEFORE

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HEIGHT
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27-Dec-2022
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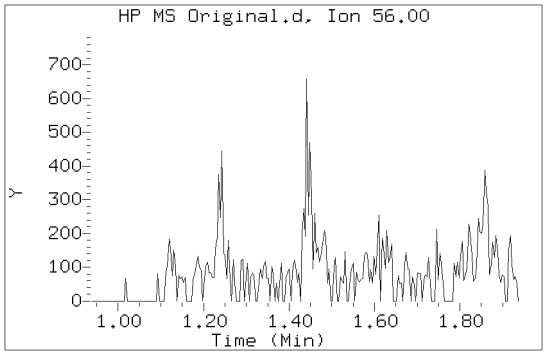
pham



AFTER

MASS
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AREA
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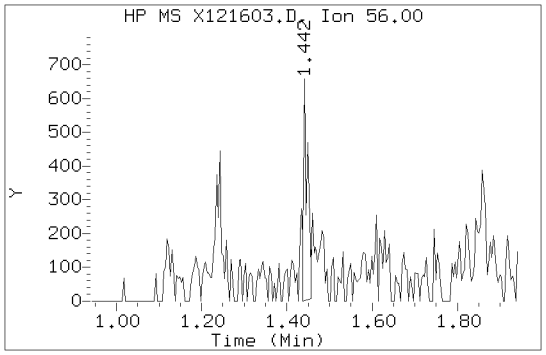
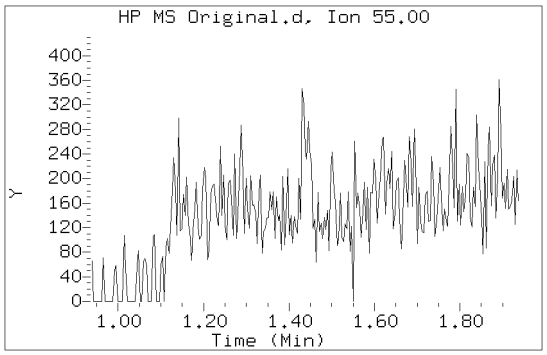
HEIGHT
656
27-Dec-2022
16:07
linh
pham



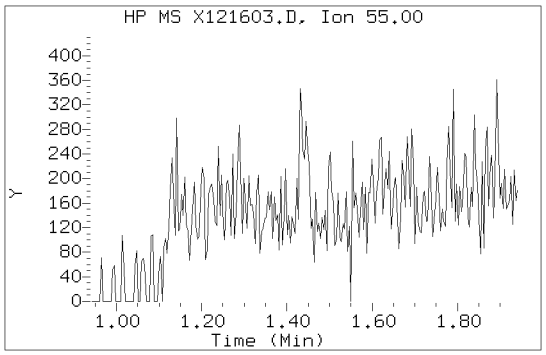
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



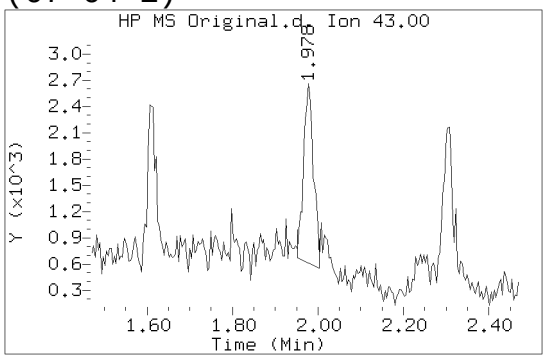
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Acetone (67-64-1)

Reason Code:

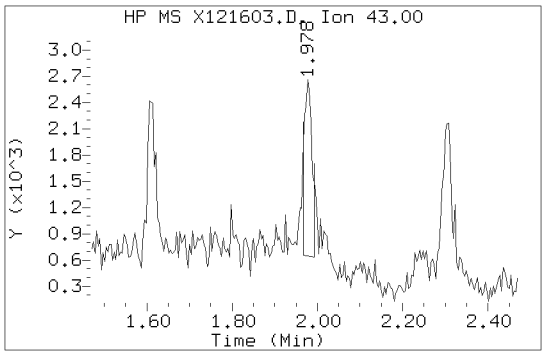
BEFORE

MASS
43
AREA
3388
HEIGHT
2046
27-Dec-2022
16:03
linh
pham



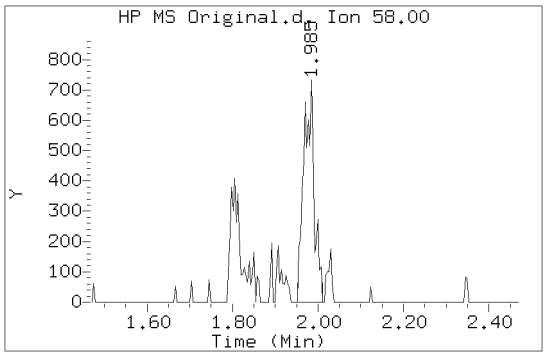
AFTER

MASS
43
AREA
2669
HEIGHT
2015
27-Dec-2022
16:07
linh
pham



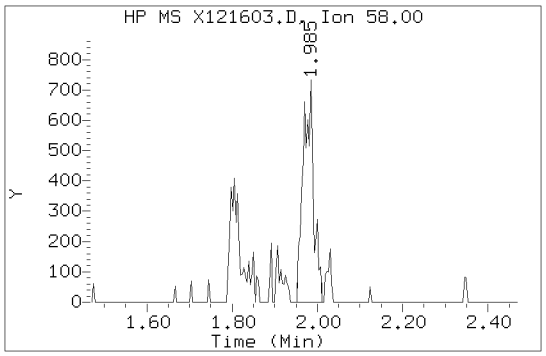
BEFORE

MASS
58
AREA
1264
HEIGHT
733
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
1264
HEIGHT
733
27-Dec-2022
16:07
linh
pham

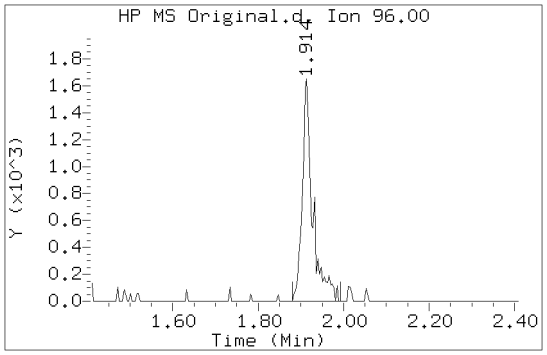


1,1-Dichloroethene (75-35-4)

Reason Code:

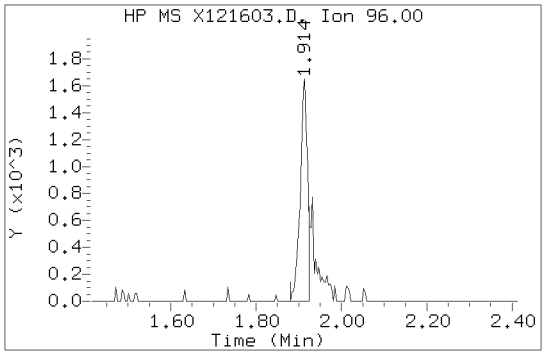
BEFORE

MASS
96
AREA
2836
HEIGHT
1651
27-Dec-2022
16:03
linh
pham



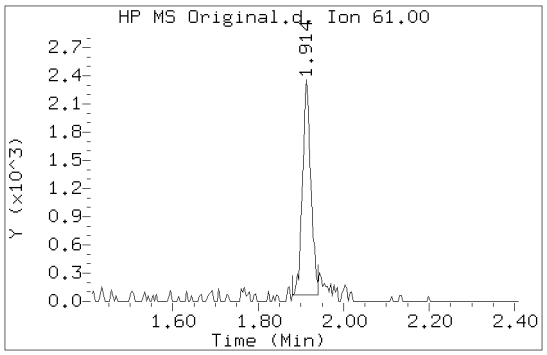
AFTER

MASS
96
AREA
2037
HEIGHT
1651
27-Dec-2022
16:07
linh
pham



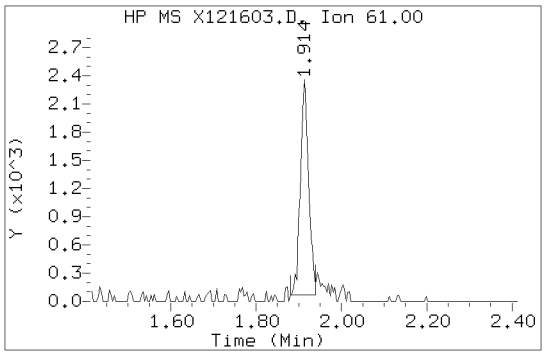
BEFORE

MASS
61
AREA
3197
HEIGHT
2293
27-Dec-2022
16:03
linh
pham



AFTER

MASS
61
AREA
3197
HEIGHT
2293
27-Dec-2022
16:07
linh
pham



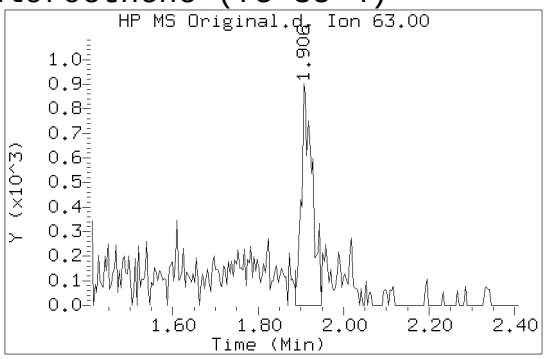
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

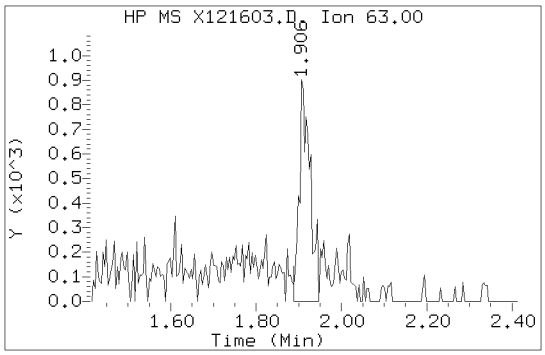
BEFORE

MASS
63
AREA
1607
HEIGHT
902
27-Dec-2022
16:03
linh
pham



AFTER

MASS
63
AREA
1607
HEIGHT
902
27-Dec-2022
16:07
linh
pham

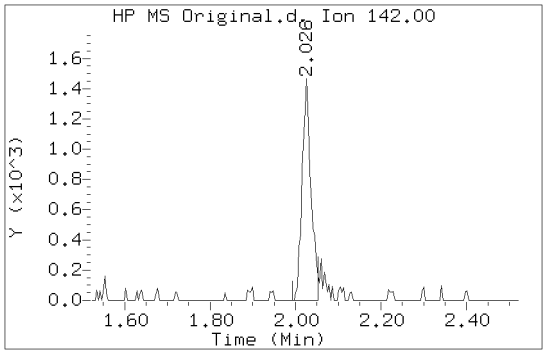


Iodomethane (74-88-4)

Reason Code:

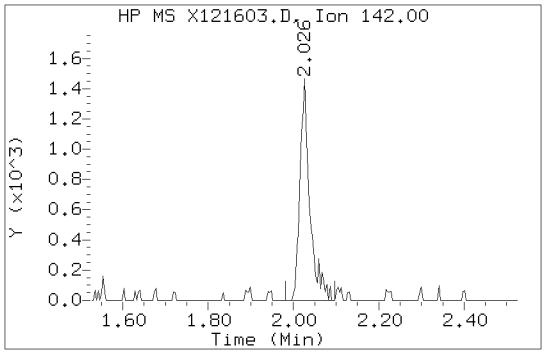
BEFORE

MASS
142
AREA
2166
HEIGHT
1466
27-Dec-2022
16:03
linh
pham



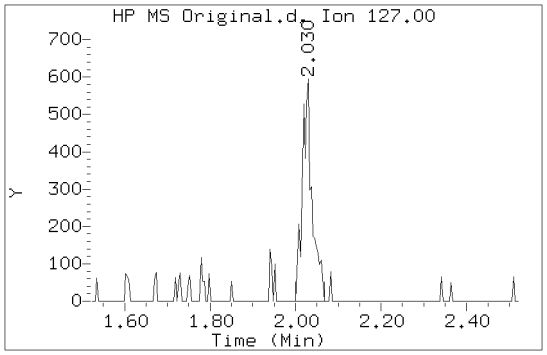
AFTER

MASS
142
AREA
2397
HEIGHT
1466
27-Dec-2022
16:07
linh
pham



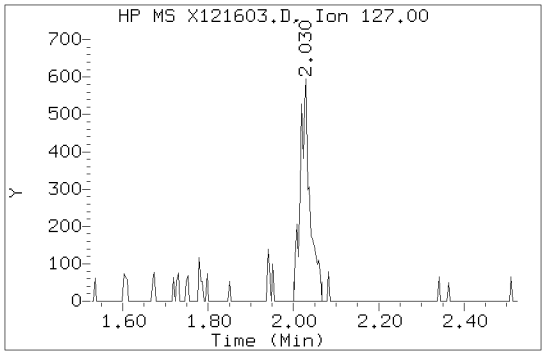
BEFORE

MASS
127
AREA
958
HEIGHT
595
27-Dec-2022
16:03
linh
pham



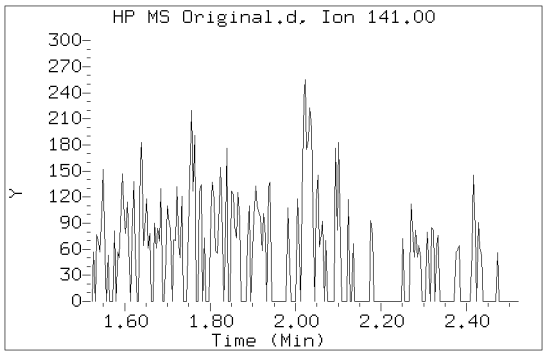
AFTER

MASS
127
AREA
958
HEIGHT
595
27-Dec-2022
16:07
linh
pham



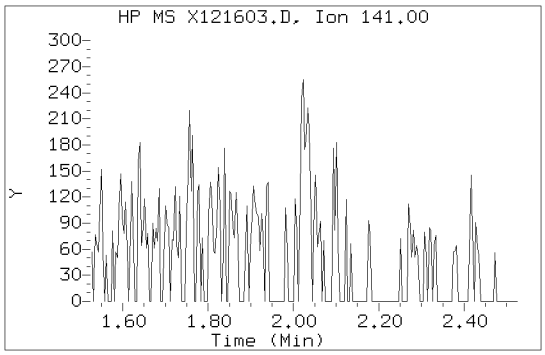
BEFORE

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



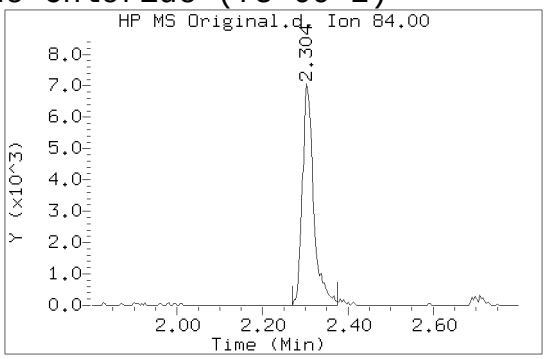
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

Reason Code:

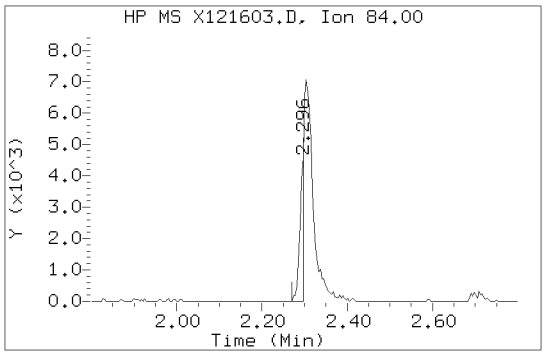
BEFORE

MASS
84
AREA
13307
HEIGHT
7067
27-Dec-2022
16:03
linh
pham



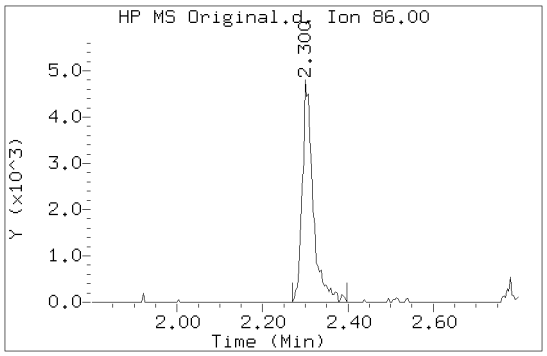
AFTER

MASS
84
AREA
2938
HEIGHT
4595
27-Dec-2022
16:07
linh
pham



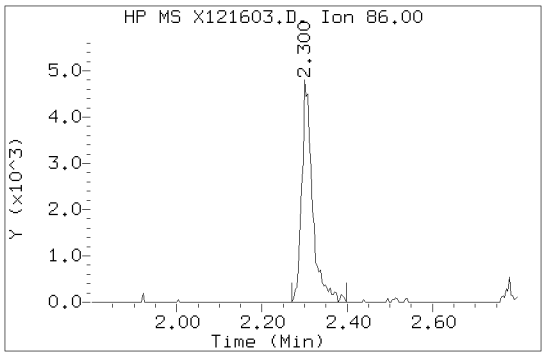
BEFORE

MASS
86
AREA
8692
HEIGHT
4802
27-Dec-2022
16:03
linh
pham



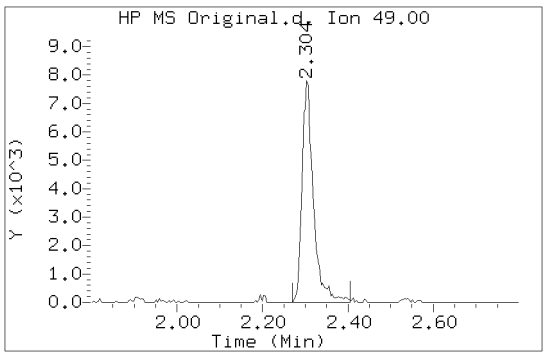
AFTER

MASS
86
AREA
8692
HEIGHT
4802
27-Dec-2022
16:07
linh
pham



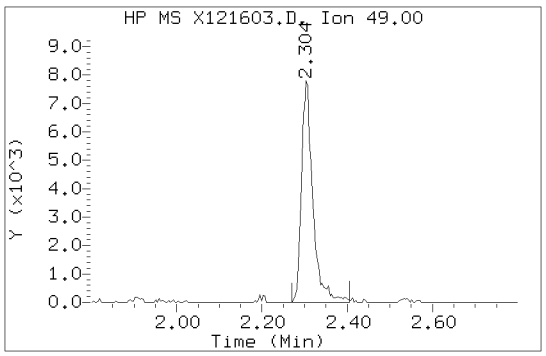
BEFORE

MASS
49
AREA
14733
HEIGHT
7803
27-Dec-2022
16:03
linh
pham



AFTER

MASS
49
AREA
14733
HEIGHT
7803
27-Dec-2022
16:07
linh
pham

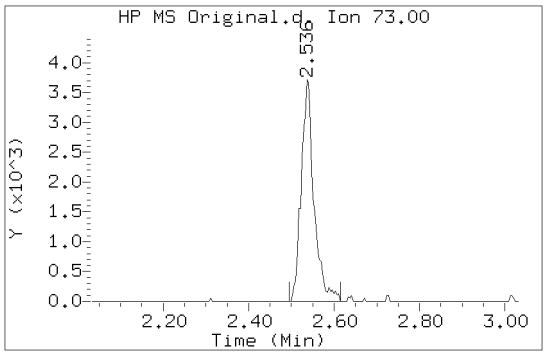


Methyl tert-butyl ether (1634-04-4)

Reason Code:

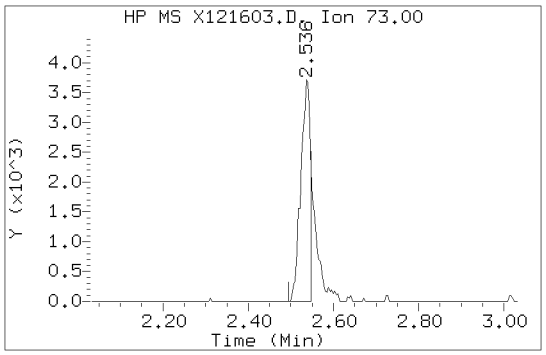
BEFORE

MASS
73
AREA
7826
HEIGHT
3716
27-Dec-2022
16:03
linh
pham



AFTER

MASS
73
AREA
5841
HEIGHT
3716
27-Dec-2022
16:07
linh
pham

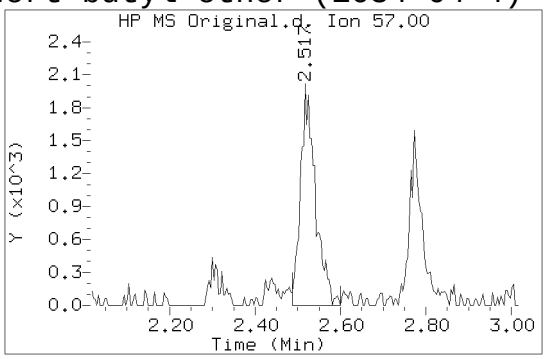


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl tert-butyl ether (1634-04-4)

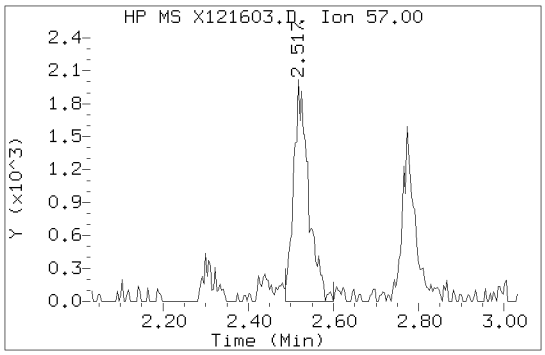
BEFORE

MASS
57
AREA
4915
HEIGHT
2019
27-Dec-2022
16:03
linh
pham



AFTER

MASS
57
AREA
4915
HEIGHT
2019
27-Dec-2022
16:07
linh
pham

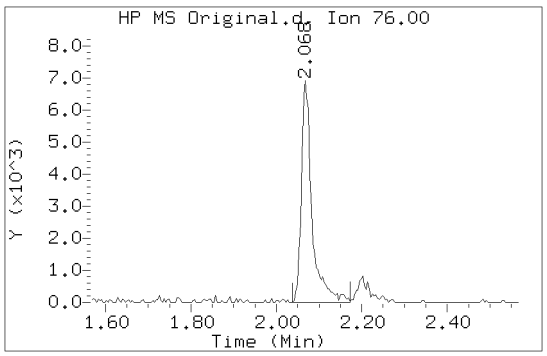


Reason Code:

Carbon Disulfide (75-15-0)

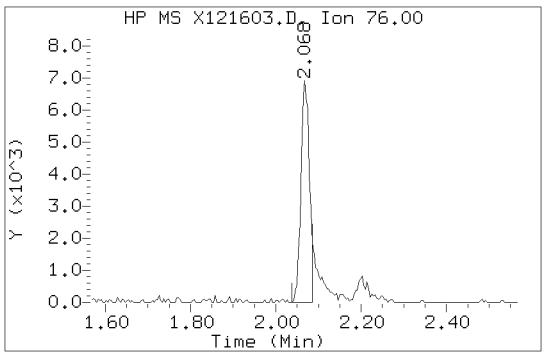
BEFORE

MASS
76
AREA
12313
HEIGHT
6923
27-Dec-2022
16:03
linh
pham



AFTER

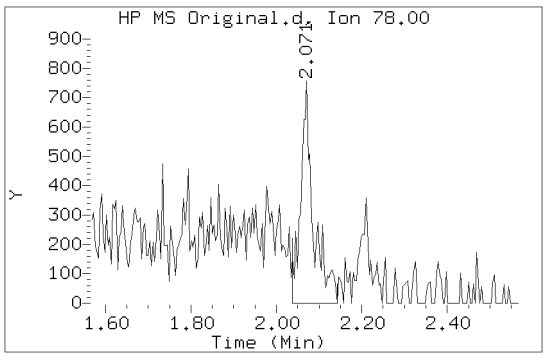
MASS
76
AREA
9921
HEIGHT
6923
27-Dec-2022
16:07
linh
pham



Reason Code:

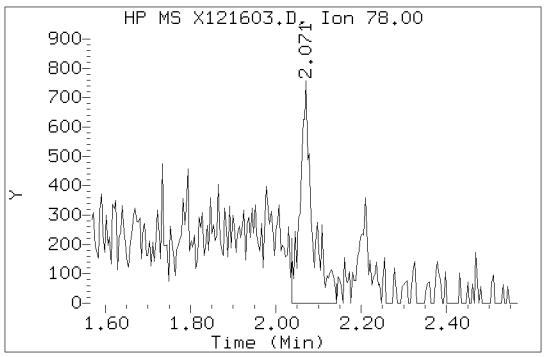
BEFORE

MASS
78
AREA
1586
HEIGHT
757
27-Dec-2022
16:03
linh
pham



AFTER

MASS
78
AREA
1586
HEIGHT
757
27-Dec-2022
16:07
linh
pham

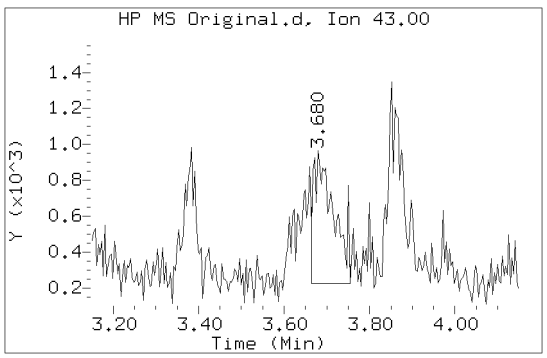


Reason Code:

2-Butanone (78-93-3)

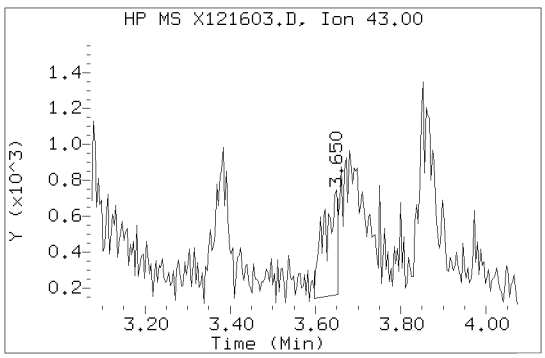
BEFORE

MASS
43
AREA
2415
HEIGHT
742
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
1292
HEIGHT
587
27-Dec-2022
16:07
linh
pham



Reason Code:

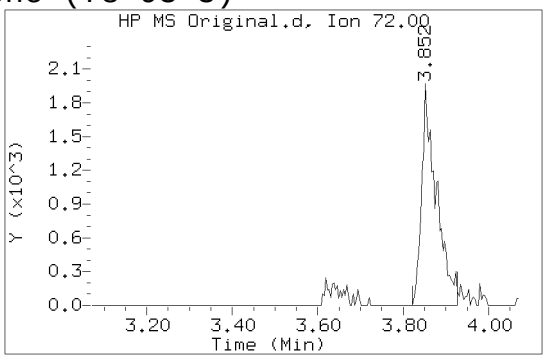
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

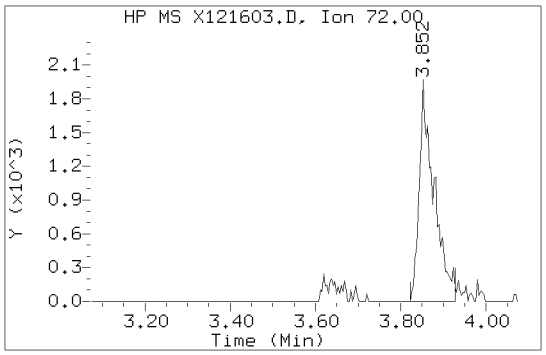
BEFORE

MASS
72
AREA
4698
HEIGHT
1970
27-Dec-2022
16:03
linh
pham



AFTER

MASS
72
AREA
4698
HEIGHT
1970
27-Dec-2022
16:07
linh
pham

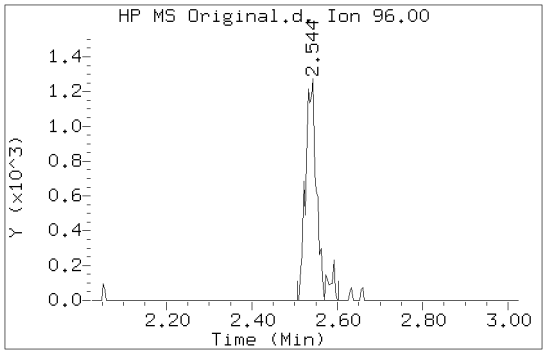


trans-1,2-Dichloroethene (156-60-5)

Reason Code:

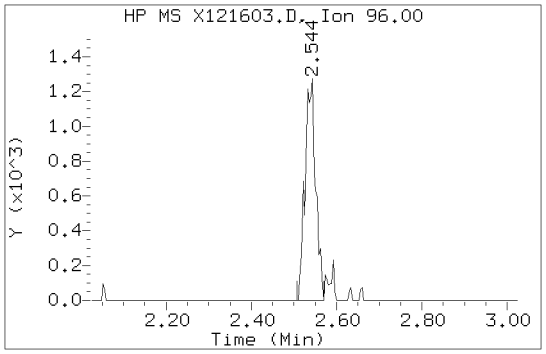
BEFORE

MASS
96
AREA
2404
HEIGHT
1274
27-Dec-2022
16:03
linh
pham



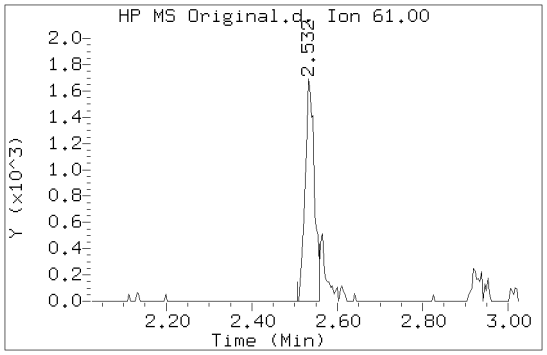
AFTER

MASS
96
AREA
2218
HEIGHT
1274
27-Dec-2022
16:07
linh
pham



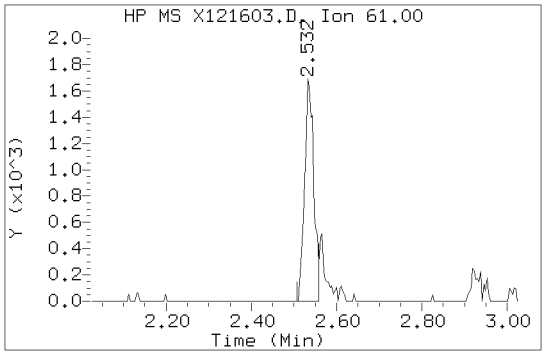
BEFORE

MASS
61
AREA
2571
HEIGHT
1692
27-Dec-2022
16:03
linh
pham



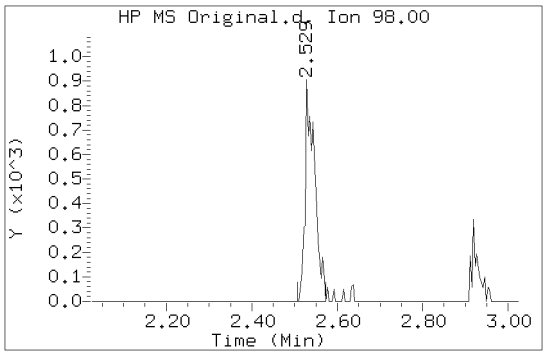
AFTER

MASS
61
AREA
2571
HEIGHT
1692
27-Dec-2022
16:07
linh
pham



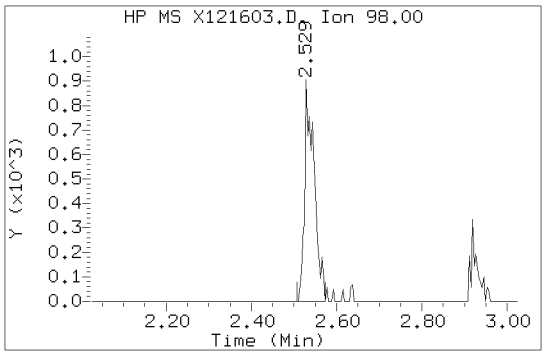
BEFORE

MASS
98
AREA
1412
HEIGHT
906
27-Dec-2022
16:03
linh
pham



AFTER

MASS
98
AREA
1412
HEIGHT
906
27-Dec-2022
16:07
linh
pham



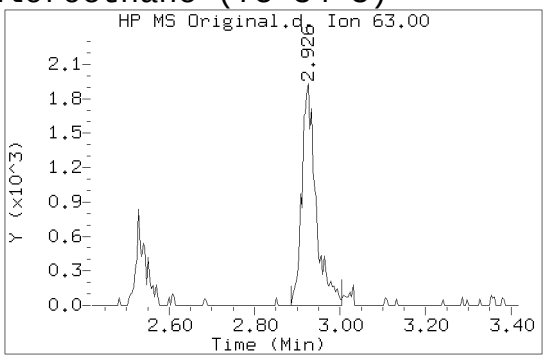
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethane (75-34-3)

Reason Code:

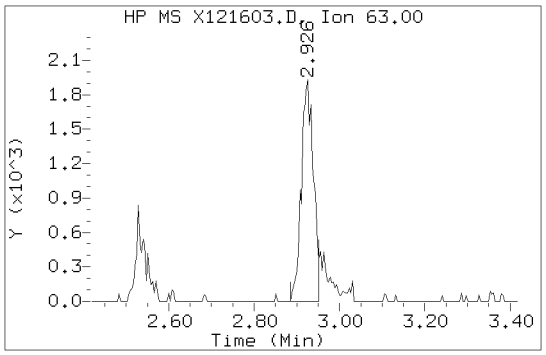
BEFORE

MASS
63
AREA
4504
HEIGHT
1931
27-Dec-2022
16:03
linh
pham



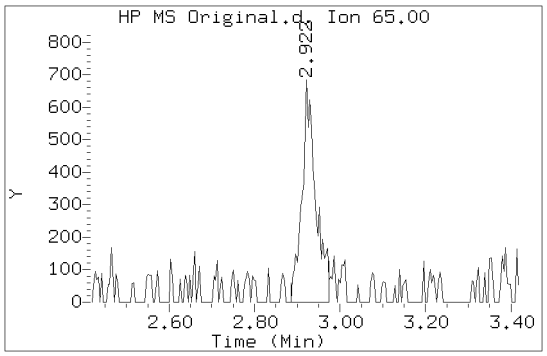
AFTER

MASS
63
AREA
3874
HEIGHT
1931
27-Dec-2022
16:07
linh
pham



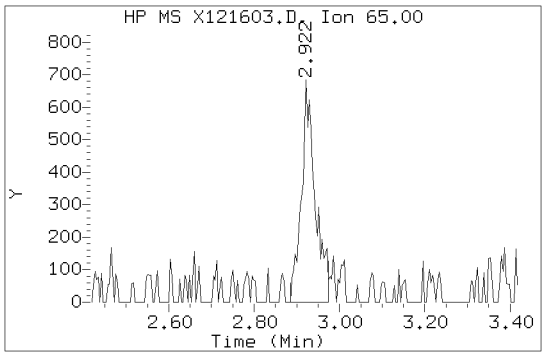
BEFORE

MASS
65
AREA
1548
HEIGHT
684
27-Dec-2022
16:03
linh
pham



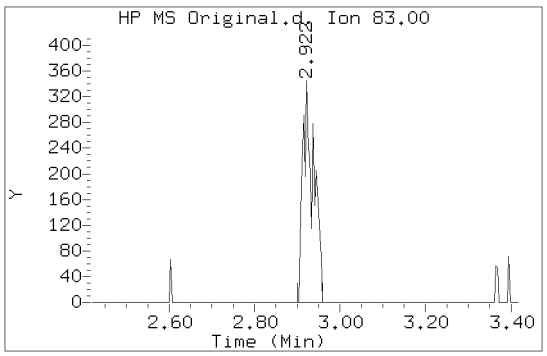
AFTER

MASS
65
AREA
1548
HEIGHT
684
27-Dec-2022
16:07
linh
pham



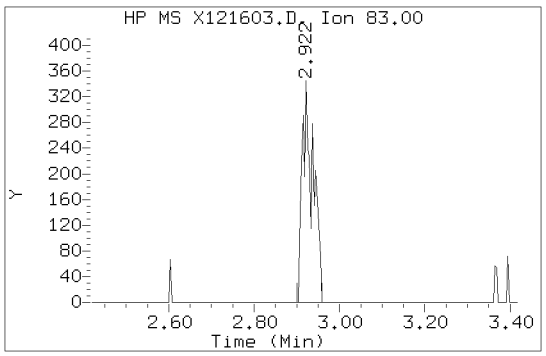
BEFORE

MASS
83
AREA
618
HEIGHT
345
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
618
HEIGHT
345
27-Dec-2022
16:07
linh
pham

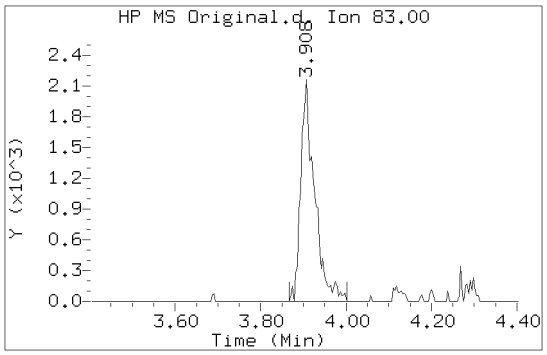


Chloroform (67-66-3)

Reason Code:

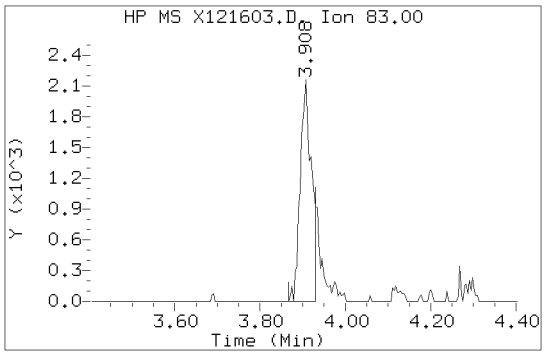
BEFORE

MASS
83
AREA
4949
HEIGHT
2160
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
4040
HEIGHT
2160
27-Dec-2022
16:07
linh
pham



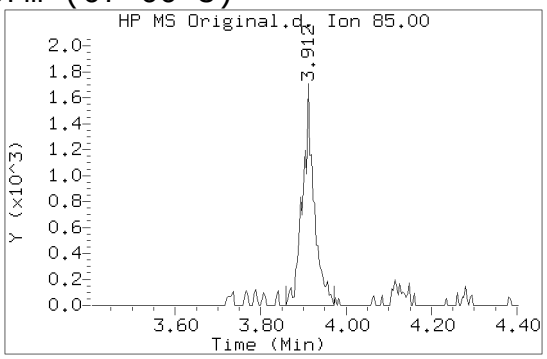
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroform (67-66-3)

Reason Code:

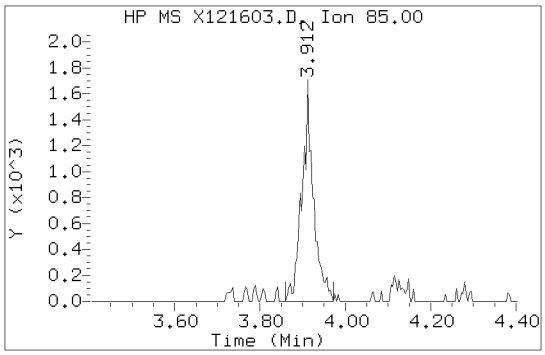
BEFORE

MASS
85
AREA
3222
HEIGHT
1709
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
3222
HEIGHT
1709
27-Dec-2022
16:07
linh
pham

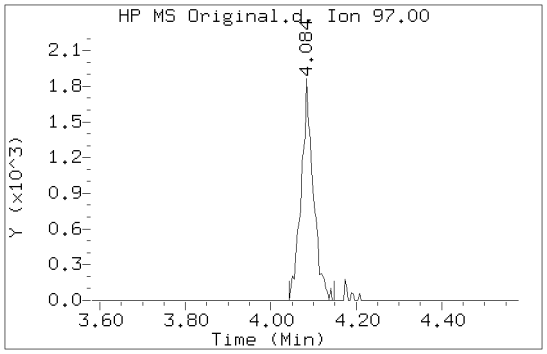


1,1,1-Trichloroethane (71-55-6)

Reason Code:

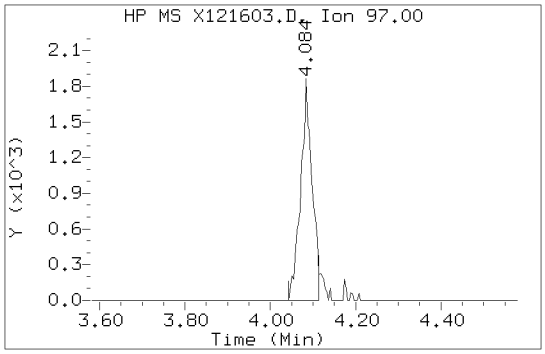
BEFORE

MASS
97
AREA
3710
HEIGHT
1863
27-Dec-2022
16:03
linh
pham



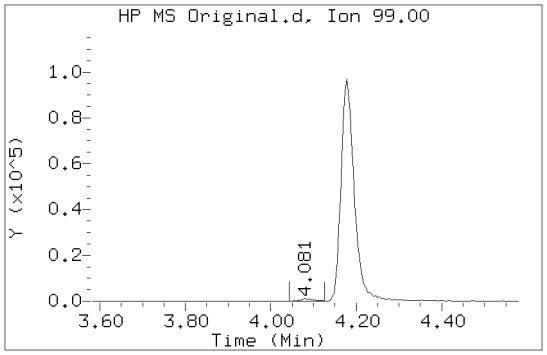
AFTER

MASS
97
AREA
3512
HEIGHT
1863
27-Dec-2022
16:07
linh
pham



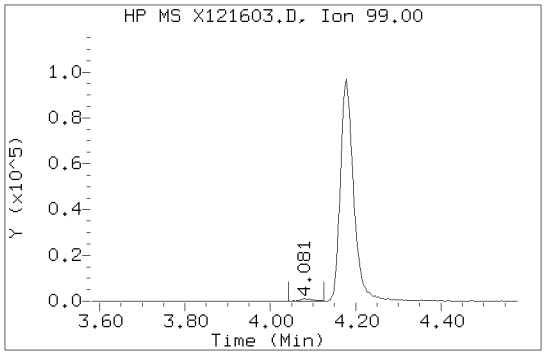
BEFORE

MASS
99
AREA
2299
HEIGHT
1029
27-Dec-2022
16:03
linh
pham



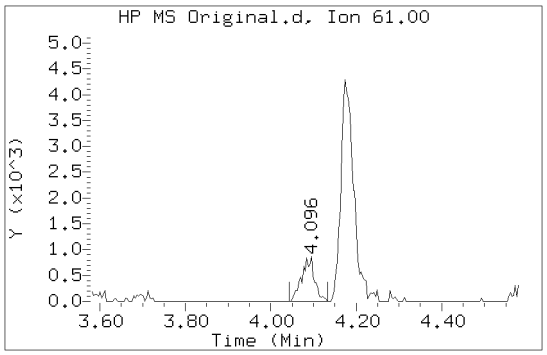
AFTER

MASS
99
AREA
2299
HEIGHT
1029
27-Dec-2022
16:07
linh
pham



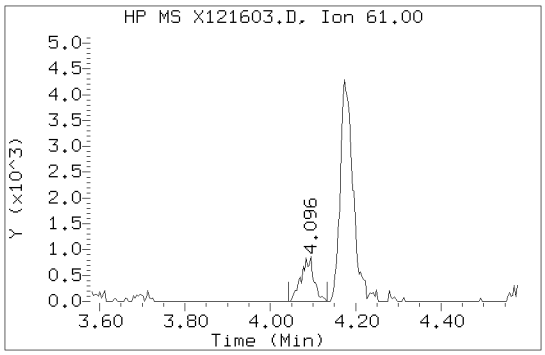
BEFORE

MASS
61
AREA
1801
HEIGHT
872
27-Dec-2022
16:03
linh
pham



AFTER

MASS
61
AREA
1801
HEIGHT
872
27-Dec-2022
16:07
linh
pham



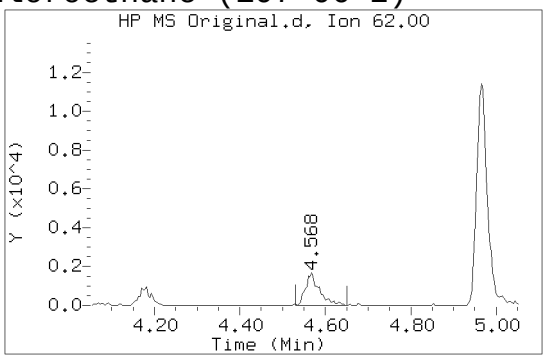
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloroethane (107-06-2)

Reason Code:

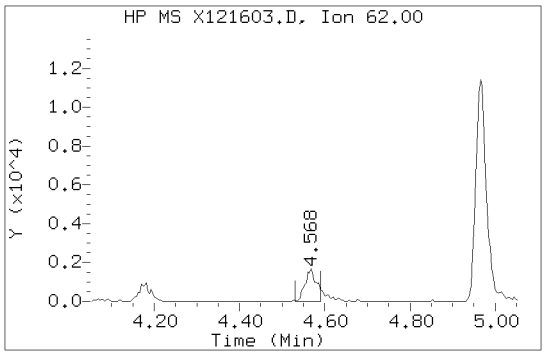
BEFORE

MASS
62
AREA
3822
HEIGHT
1678
27-Dec-2022
16:03
linh
pham



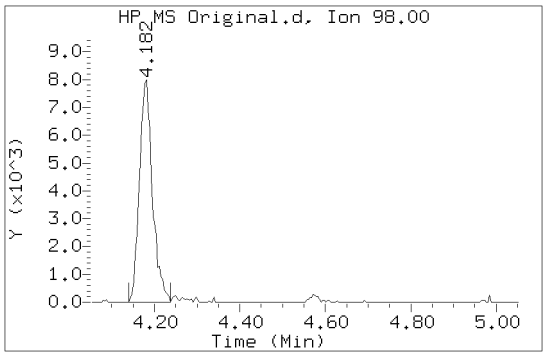
AFTER

MASS
62
AREA
3129
HEIGHT
1678
27-Dec-2022
16:07
linh
pham



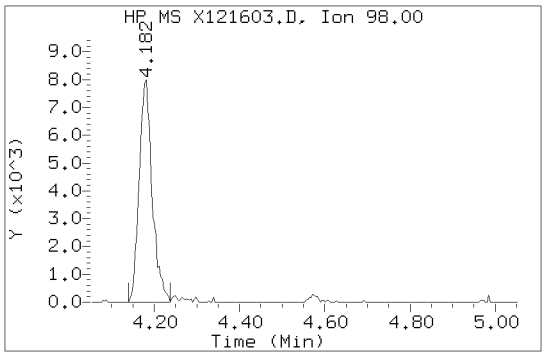
BEFORE

MASS
98
AREA
16918
HEIGHT
7987
27-Dec-2022
16:03
linh
pham



AFTER

MASS
98
AREA
16918
HEIGHT
7987
27-Dec-2022
16:07
linh
pham

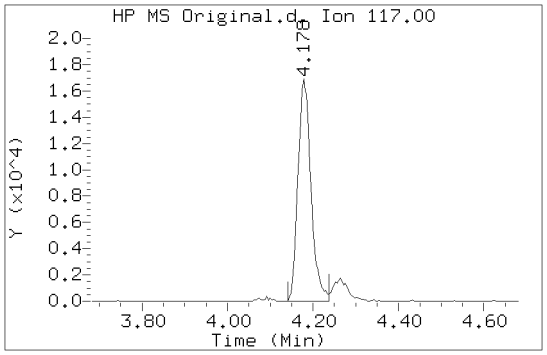


Carbon Tetrachloride (56-23-5)

Reason Code:

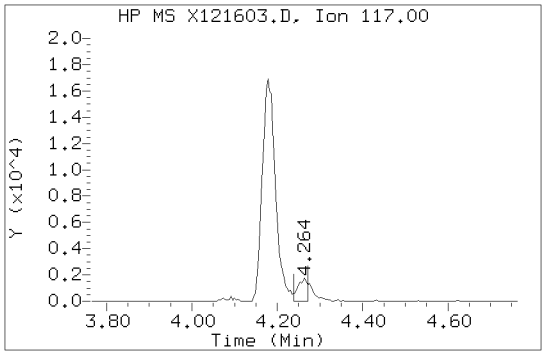
BEFORE

MASS
117
AREA
36559
HEIGHT
16920
27-Dec-2022
16:03
linh
pham



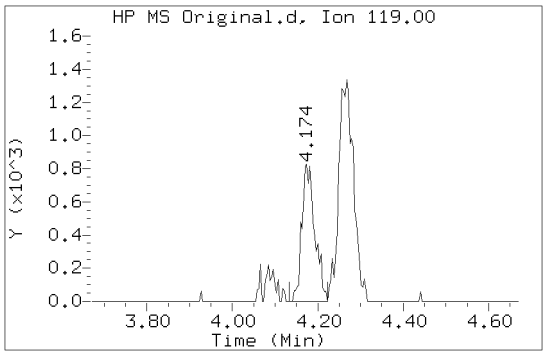
AFTER

MASS
117
AREA
2763
HEIGHT
1744
27-Dec-2022
16:07
linh
pham



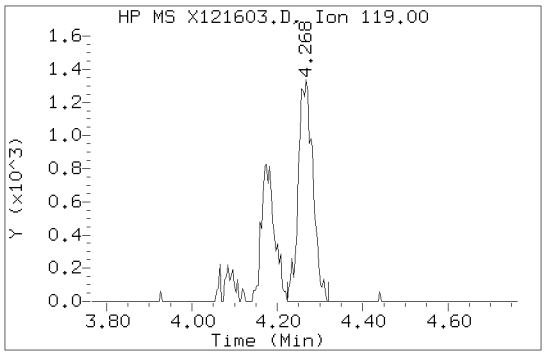
BEFORE

MASS
119
AREA
1780
HEIGHT
826
27-Dec-2022
16:03
linh
pham



AFTER

MASS
119
AREA
3227
HEIGHT
1337
27-Dec-2022
16:07
linh
pham

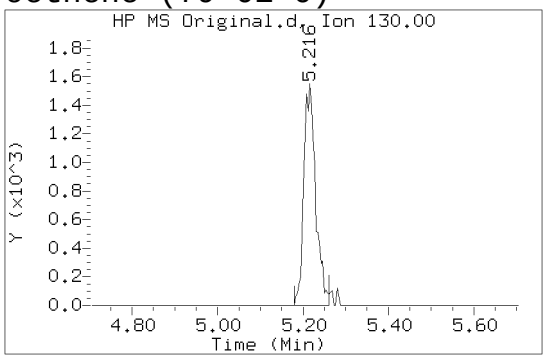


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

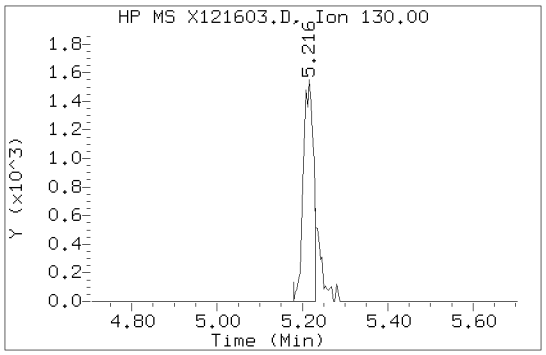
Trichloroethene (79-01-6)

Reason Code:

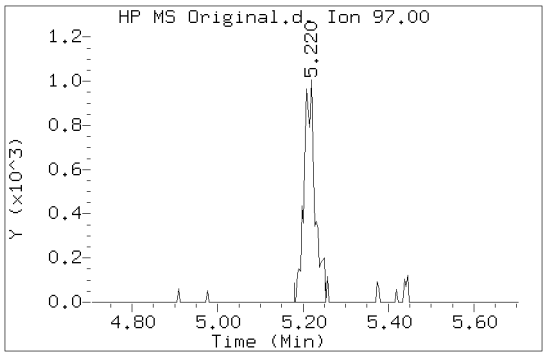
BEFORE
MASS
130
AREA
3011
HEIGHT
1551
27-Dec-2022
16:03
linh
pham



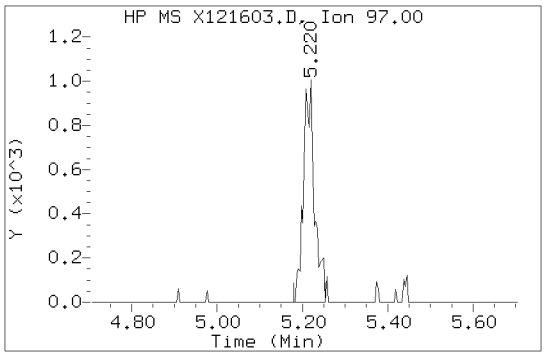
AFTER
MASS
130
AREA
2583
HEIGHT
1551
27-Dec-2022
16:07
linh
pham



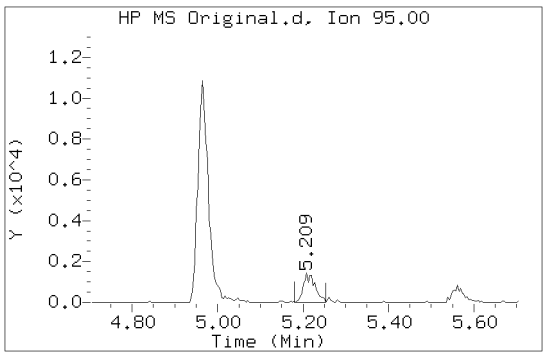
BEFORE
MASS
97
AREA
1808
HEIGHT
1006
27-Dec-2022
16:03
linh
pham



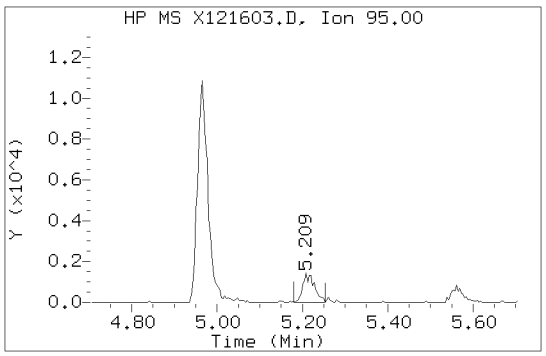
AFTER
MASS
97
AREA
1808
HEIGHT
1006
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
95
AREA
2693
HEIGHT
1431
27-Dec-2022
16:03
linh
pham



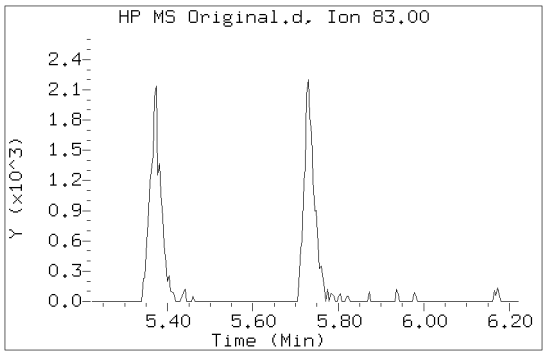
AFTER
MASS
95
AREA
2693
HEIGHT
1431
27-Dec-2022
16:07
linh
pham



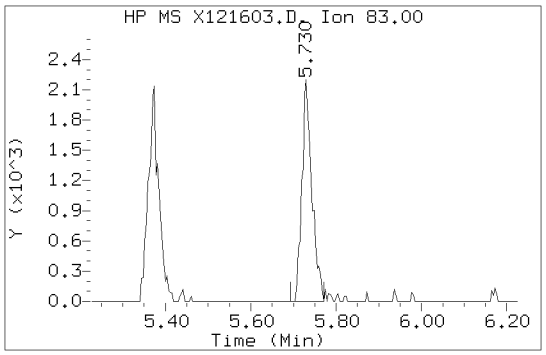
Bromodichloromethane (75-27-4)

Reason Code:

BEFORE
MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
83
AREA
3650
HEIGHT
2201
27-Dec-2022
16:07
linh
pham



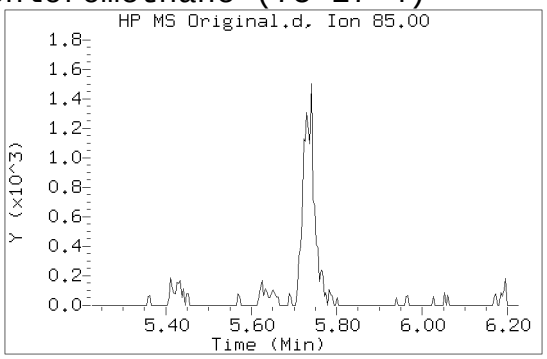
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromodichloromethane (75-27-4)

Reason Code:

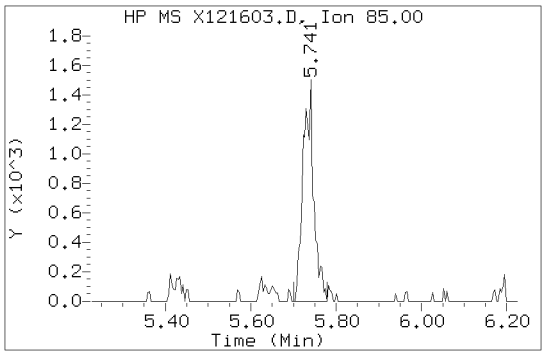
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



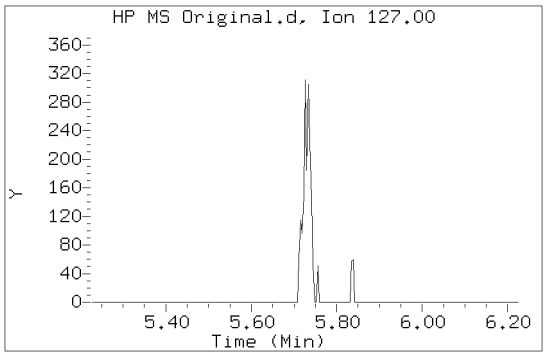
AFTER

MASS
85
AREA
2639
HEIGHT
1503
27-Dec-2022
16:07
linh
pham



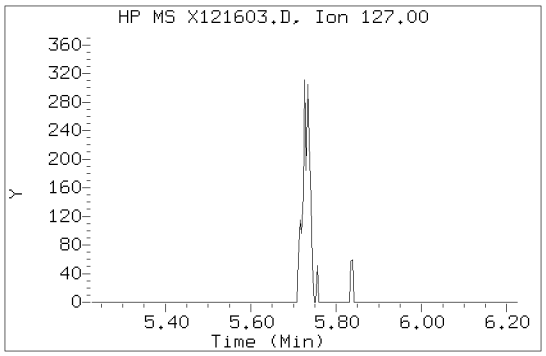
BEFORE

MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

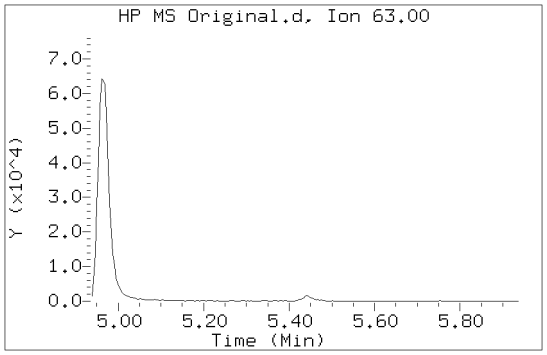


1,2-Dichloropropane (78-87-5)

Reason Code:

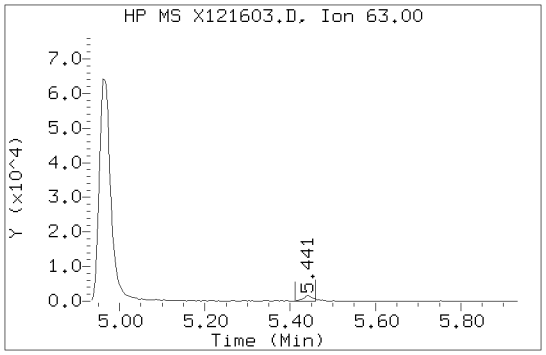
BEFORE

MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



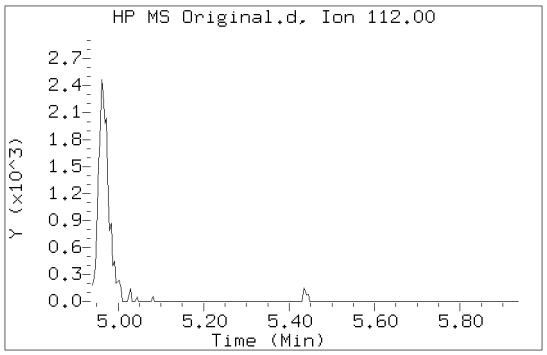
AFTER

MASS
63
AREA
2449
HEIGHT
1587
27-Dec-2022
16:07
linh
pham



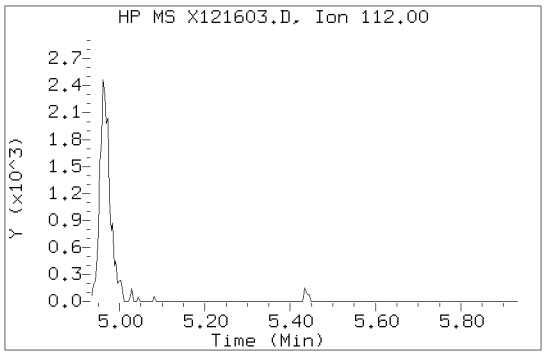
BEFORE

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



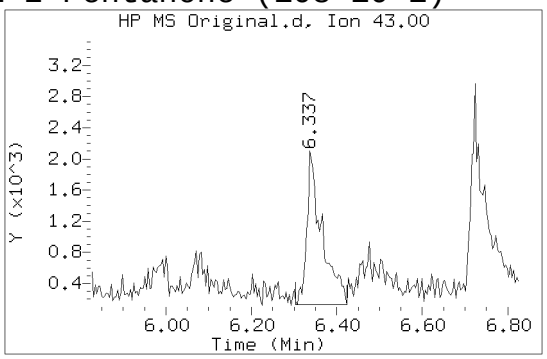
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

4-Methyl-2-Pentanone (108-10-1)

Reason Code:

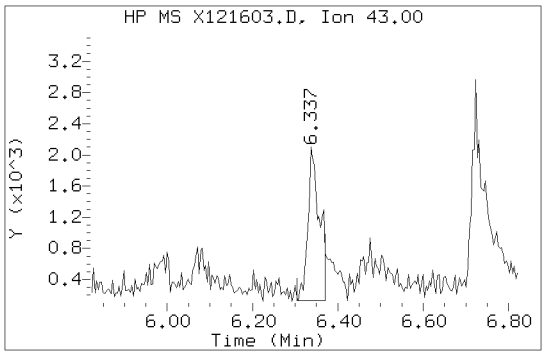
BEFORE

MASS
43
AREA
4873
HEIGHT
1970
27-Dec-2022
16:03
linh
pham



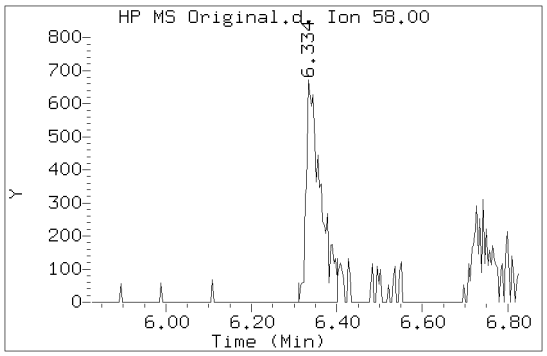
AFTER

MASS
43
AREA
3741
HEIGHT
1970
27-Dec-2022
16:07
linh
pham



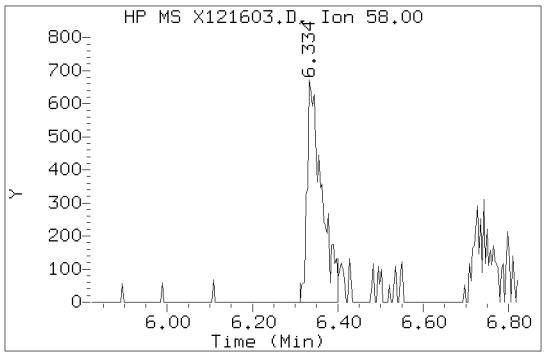
BEFORE

MASS
58
AREA
1585
HEIGHT
672
27-Dec-2022
16:03
linh
pham



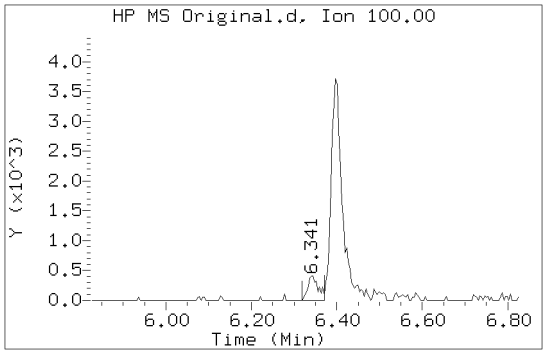
AFTER

MASS
58
AREA
1585
HEIGHT
672
27-Dec-2022
16:07
linh
pham



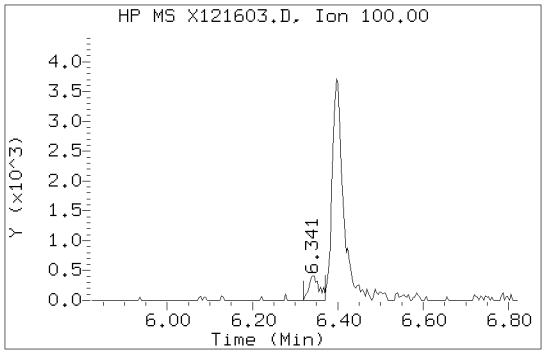
BEFORE

MASS
100
AREA
714
HEIGHT
412
27-Dec-2022
16:03
linh
pham



AFTER

MASS
100
AREA
714
HEIGHT
412
27-Dec-2022
16:07
linh
pham

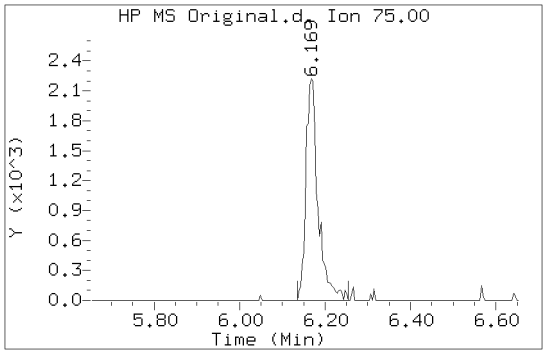


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

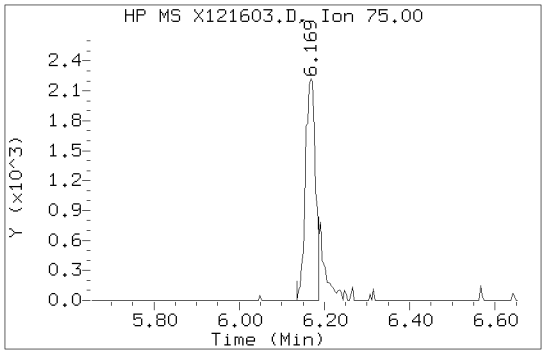
BEFORE

MASS
75
AREA
4432
HEIGHT
2222
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
3695
HEIGHT
2222
27-Dec-2022
16:07
linh
pham



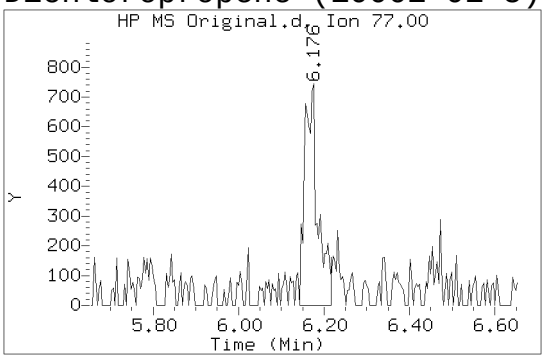
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

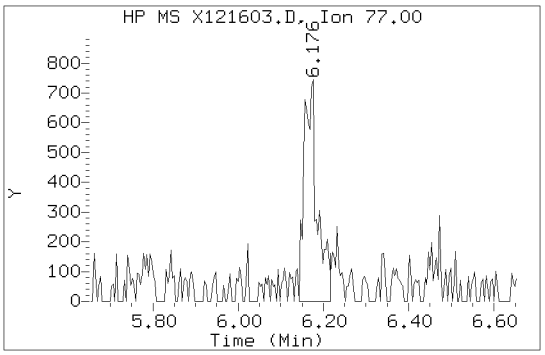
BEFORE

MASS
77
AREA
1607
HEIGHT
745
27-Dec-2022
16:03
linh
pham



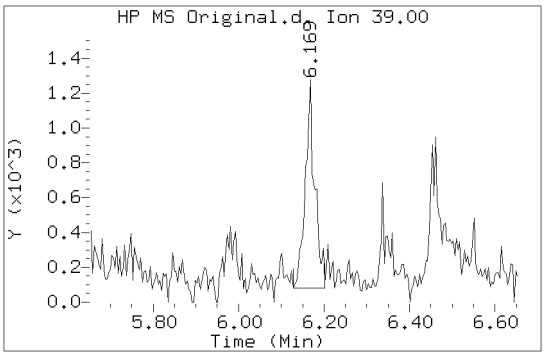
AFTER

MASS
77
AREA
1607
HEIGHT
745
27-Dec-2022
16:07
linh
pham



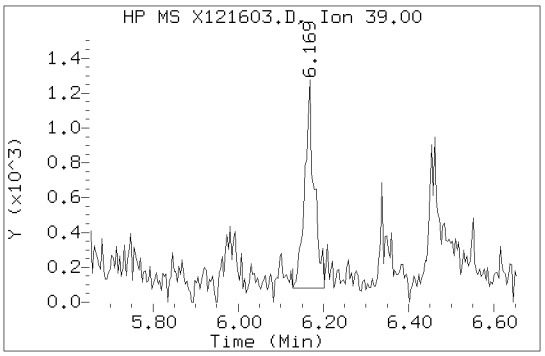
BEFORE

MASS
39
AREA
1836
HEIGHT
1193
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
1836
HEIGHT
1193
27-Dec-2022
16:07
linh
pham

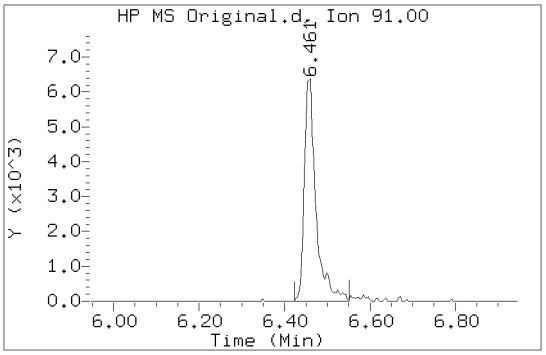


Toluene (108-88-3)

Reason Code:

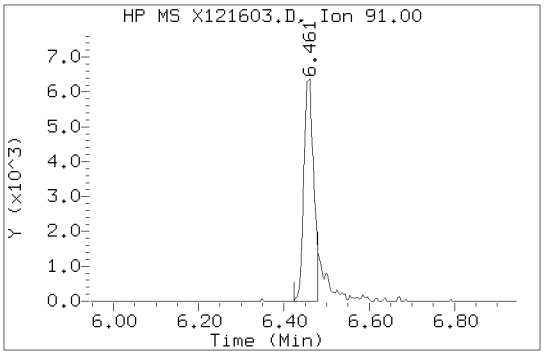
BEFORE

MASS
91
AREA
12225
HEIGHT
6374
27-Dec-2022
16:03
linh
pham



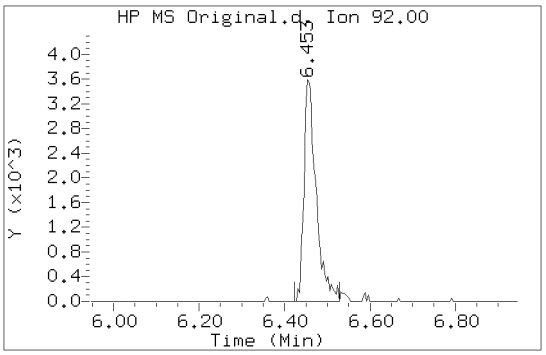
AFTER

MASS
91
AREA
10374
HEIGHT
6374
27-Dec-2022
16:07
linh
pham



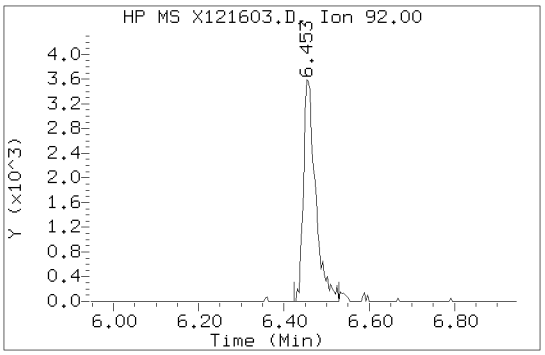
BEFORE

MASS
92
AREA
7180
HEIGHT
3591
27-Dec-2022
16:03
linh
pham



AFTER

MASS
92
AREA
7180
HEIGHT
3591
27-Dec-2022
16:07
linh
pham



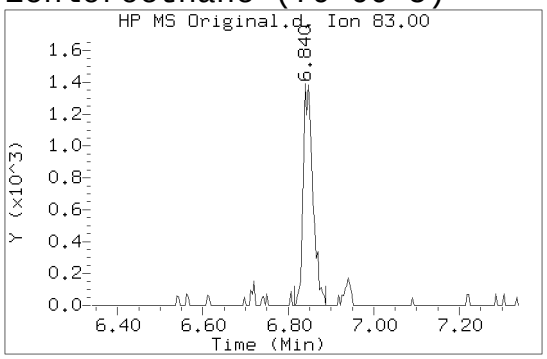
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2-Trichloroethane (79-00-5)

Reason Code:

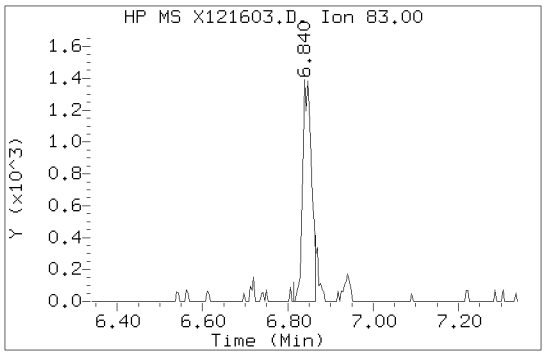
BEFORE

MASS
83
AREA
2247
HEIGHT
1391
27-Dec-2022
16:03
linh
pham



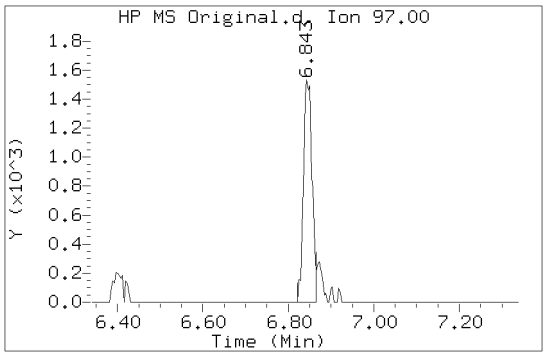
AFTER

MASS
83
AREA
2092
HEIGHT
1391
27-Dec-2022
16:07
linh
pham



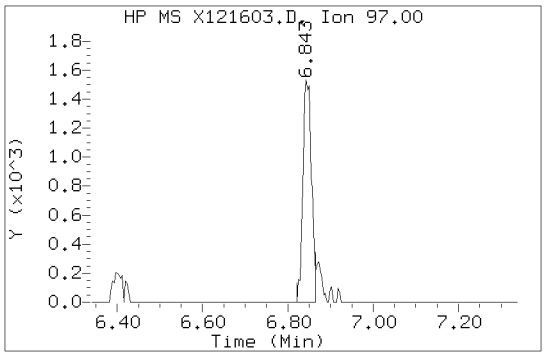
BEFORE

MASS
97
AREA
2224
HEIGHT
1532
27-Dec-2022
16:03
linh
pham



AFTER

MASS
97
AREA
2224
HEIGHT
1532
27-Dec-2022
16:07
linh
pham

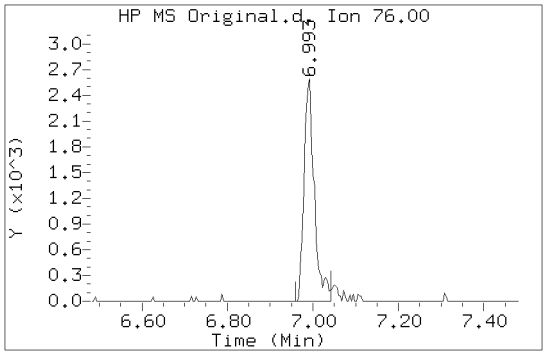


1,3-Dichloropropane (142-28-9)

Reason Code:

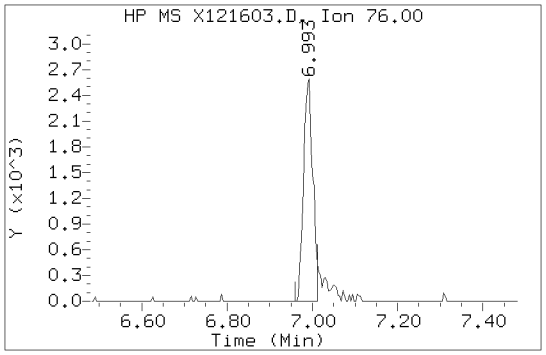
BEFORE

MASS
76
AREA
4415
HEIGHT
2592
27-Dec-2022
16:03
linh
pham



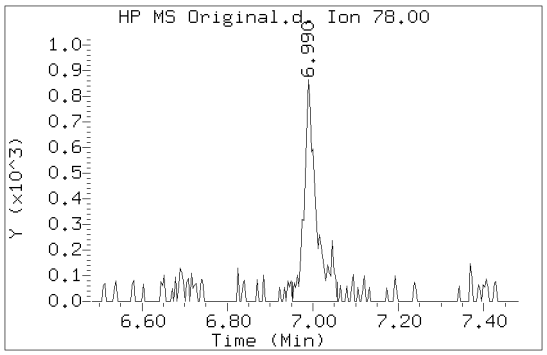
AFTER

MASS
76
AREA
4005
HEIGHT
2592
27-Dec-2022
16:07
linh
pham



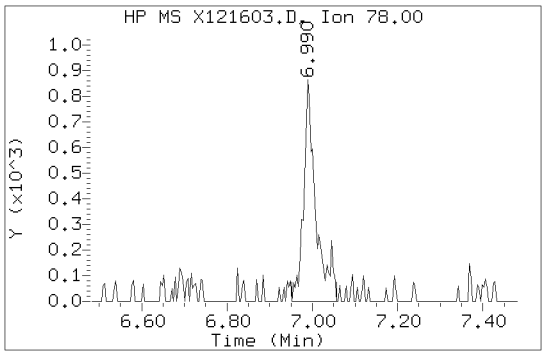
BEFORE

MASS
78
AREA
1727
HEIGHT
864
27-Dec-2022
16:03
linh
pham



AFTER

MASS
78
AREA
1727
HEIGHT
864
27-Dec-2022
16:07
linh
pham

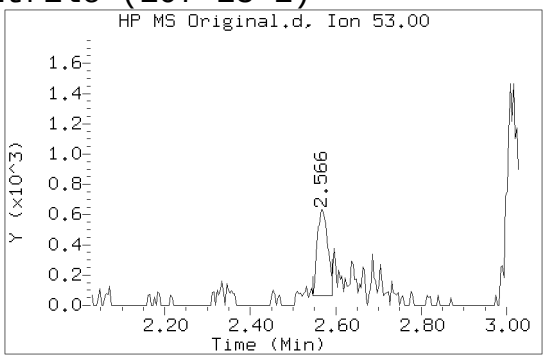


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

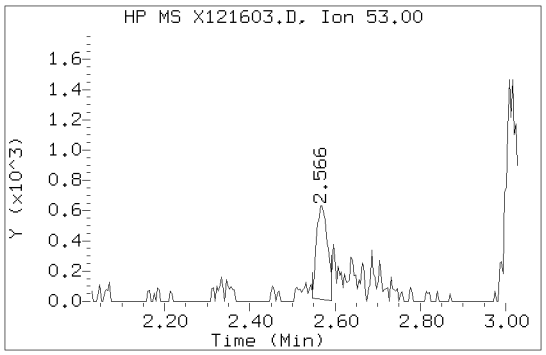
Acrylonitrile (107-13-1)

Reason Code:

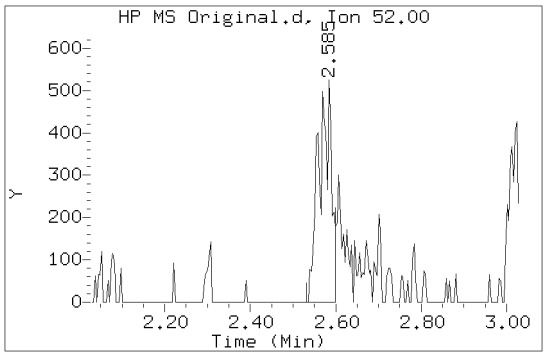
BEFORE
MASS
53
AREA
975
HEIGHT
571
27-Dec-2022
16:03
linh
pham



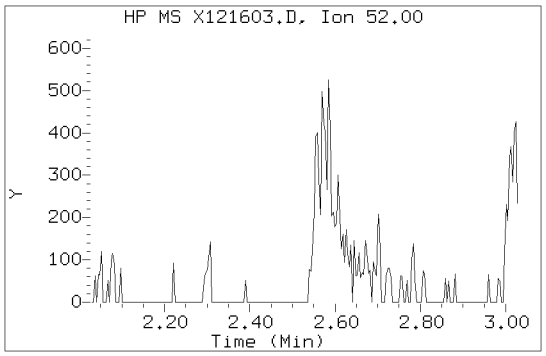
AFTER
MASS
53
AREA
1118
HEIGHT
618
27-Dec-2022
16:07
linh
pham



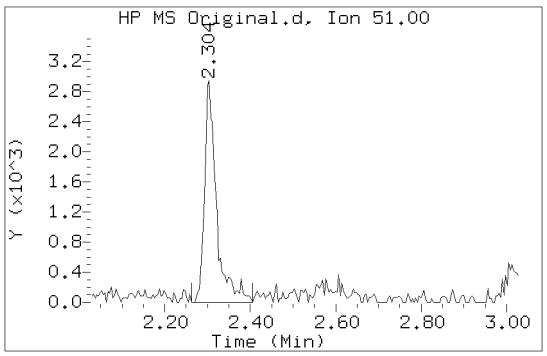
BEFORE
MASS
52
AREA
1100
HEIGHT
525
27-Dec-2022
16:03
linh
pham



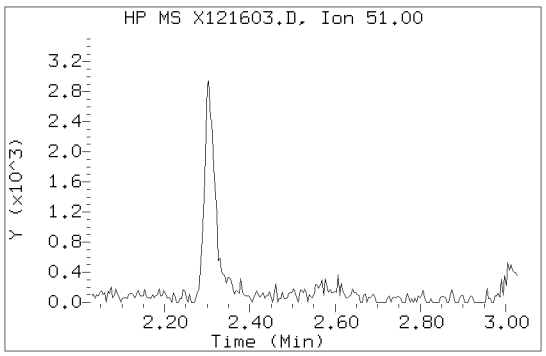
AFTER
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
51
AREA
5708
HEIGHT
2946
27-Dec-2022
16:03
linh
pham



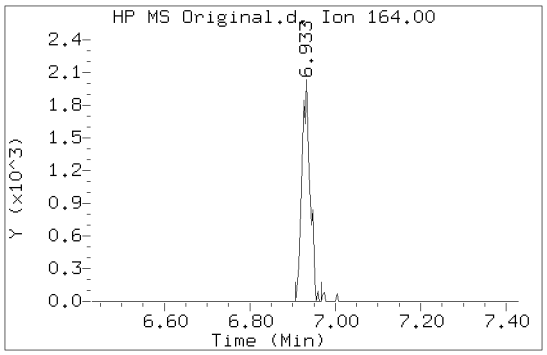
AFTER
MASS
51
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



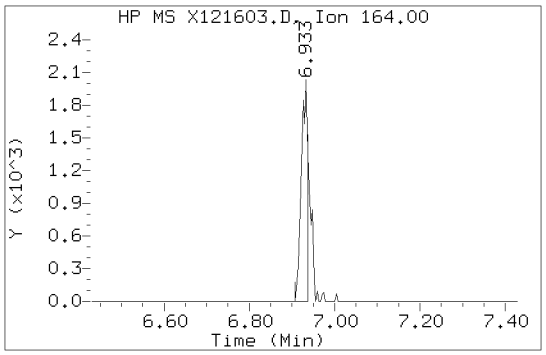
Tetrachloroethene (127-18-4)

Reason Code:

BEFORE
MASS
164
AREA
2777
HEIGHT
2036
27-Dec-2022
16:03
linh
pham



AFTER
MASS
164
AREA
2131
HEIGHT
2036
27-Dec-2022
16:07
linh
pham



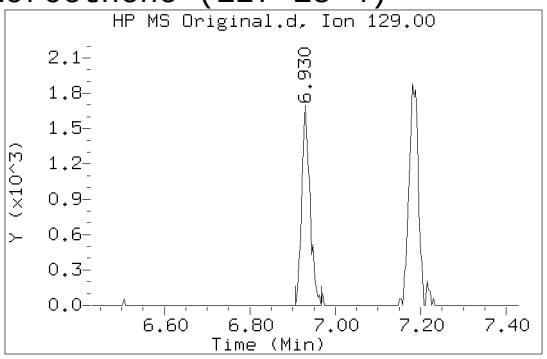
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrachloroethene (127-18-4)

Reason Code:

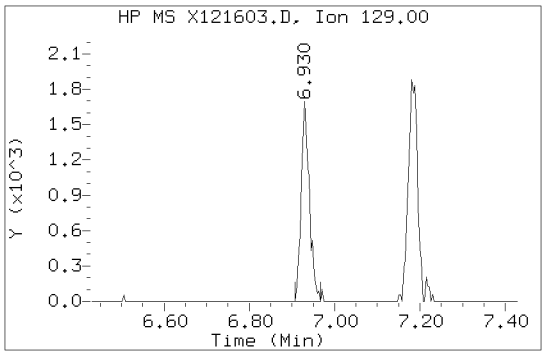
BEFORE

MASS
129
AREA
2342
HEIGHT
1697
27-Dec-2022
16:03
linh
pham



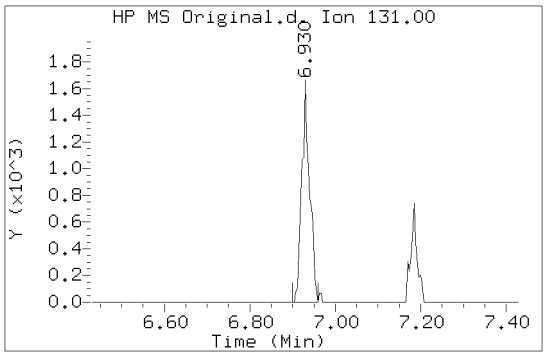
AFTER

MASS
129
AREA
2342
HEIGHT
1697
27-Dec-2022
16:07
linh
pham



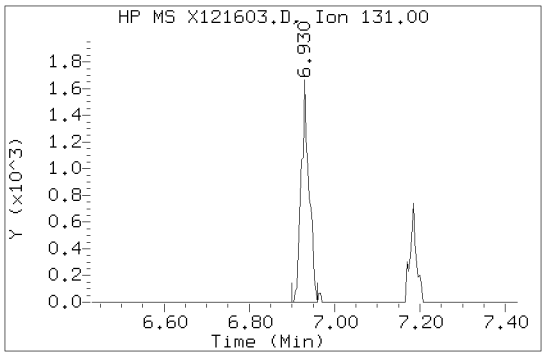
BEFORE

MASS
131
AREA
2193
HEIGHT
1665
27-Dec-2022
16:03
linh
pham



AFTER

MASS
131
AREA
2193
HEIGHT
1665
27-Dec-2022
16:07
linh
pham

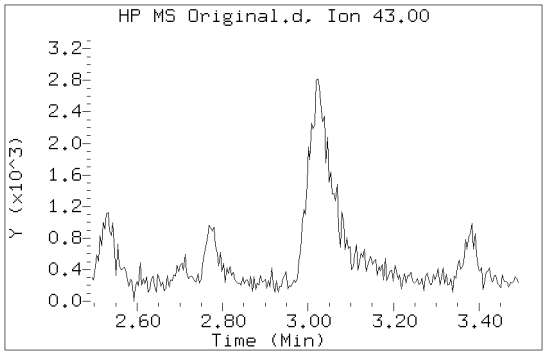


Vinyl Acetate (108-05-4)

Reason Code:

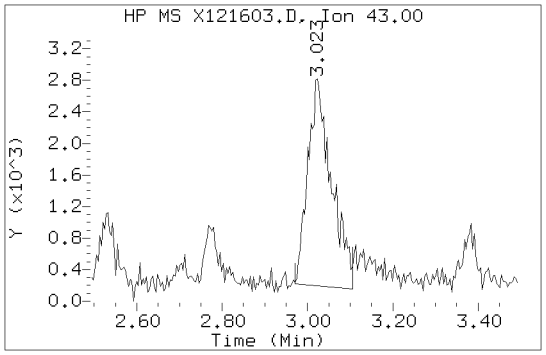
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



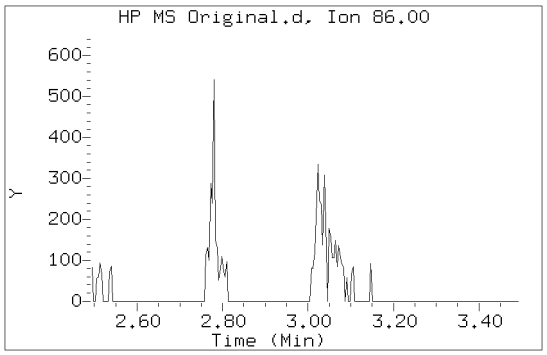
AFTER

MASS
43
AREA
10138
HEIGHT
2622
27-Dec-2022
16:07
linh
pham



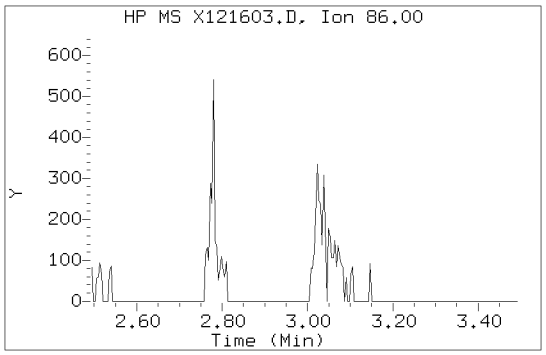
BEFORE

MASS
86
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

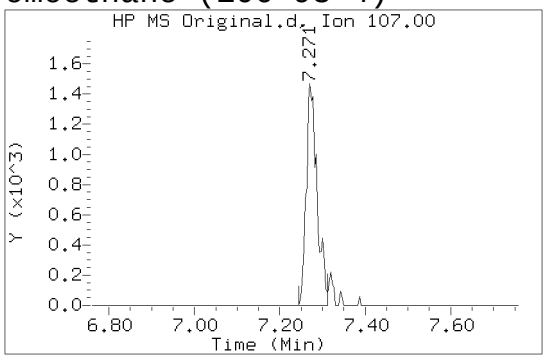


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

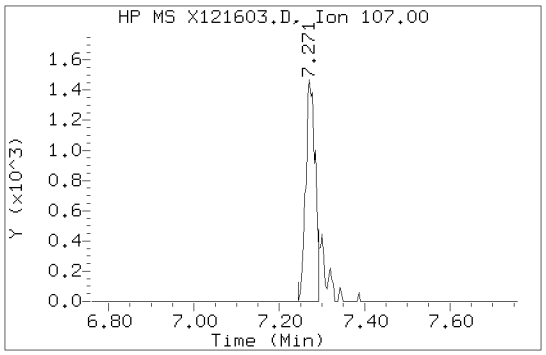
1,2-Dibromoethane (106-93-4)

Reason Code:

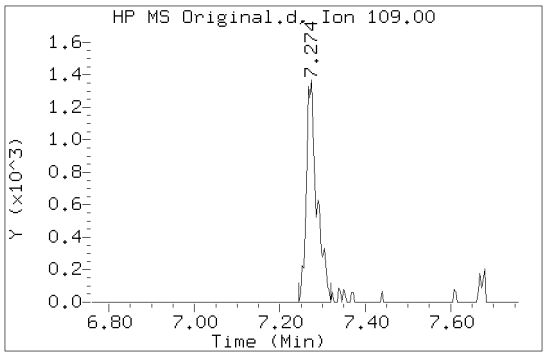
BEFORE
MASS
107
AREA
2627
HEIGHT
1469
27-Dec-2022
16:03
linh
pham



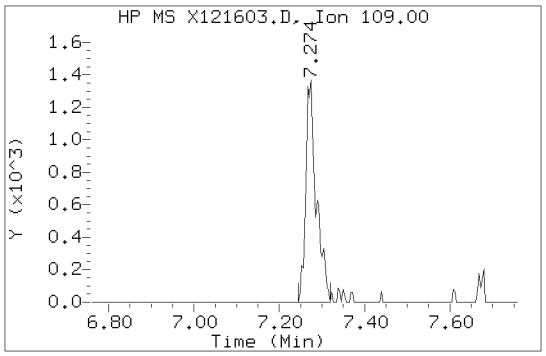
AFTER
MASS
107
AREA
2340
HEIGHT
1469
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
109
AREA
2396
HEIGHT
1369
27-Dec-2022
16:03
linh
pham



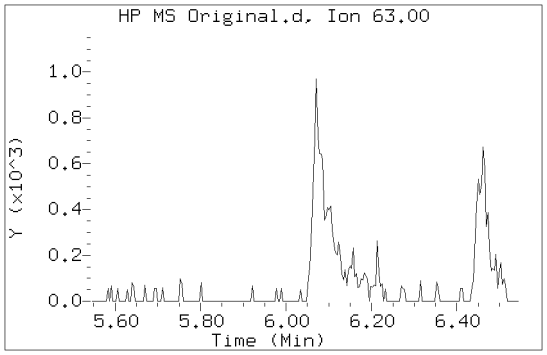
AFTER
MASS
109
AREA
2396
HEIGHT
1369
27-Dec-2022
16:07
linh
pham



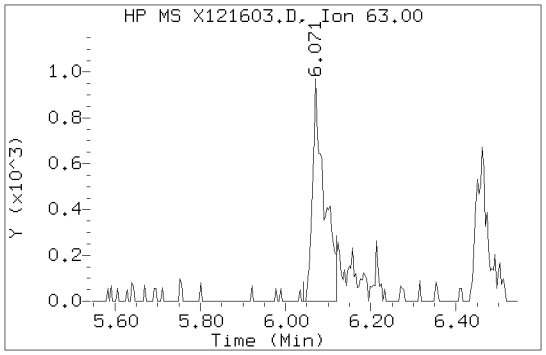
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

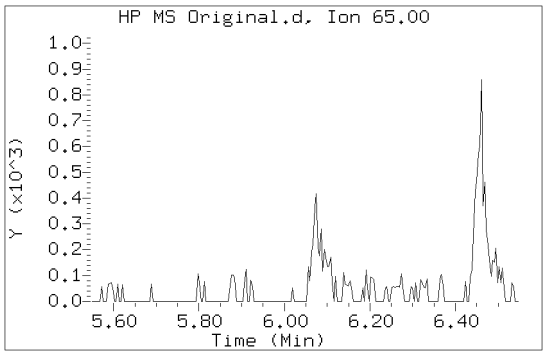
BEFORE
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



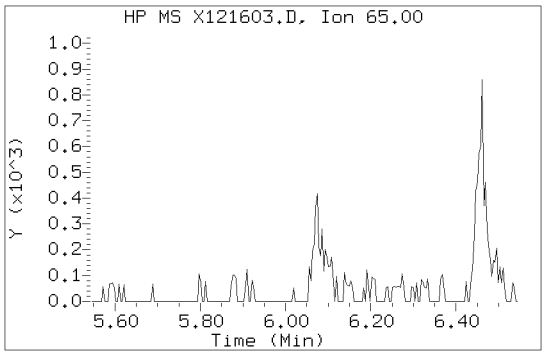
AFTER
MASS
63
AREA
1861
HEIGHT
970
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
65
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
65
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



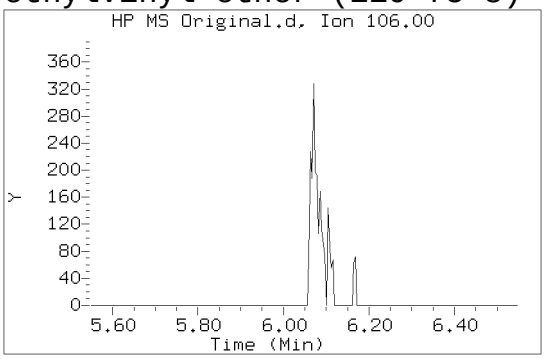
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

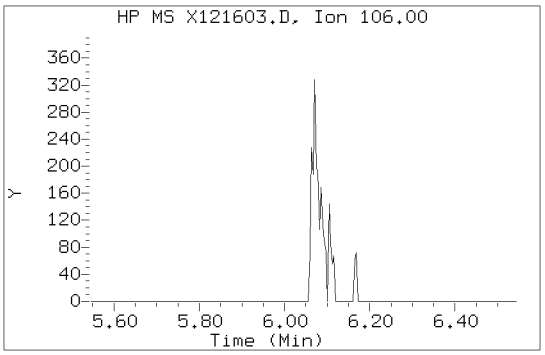
BEFORE

MASS
106
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

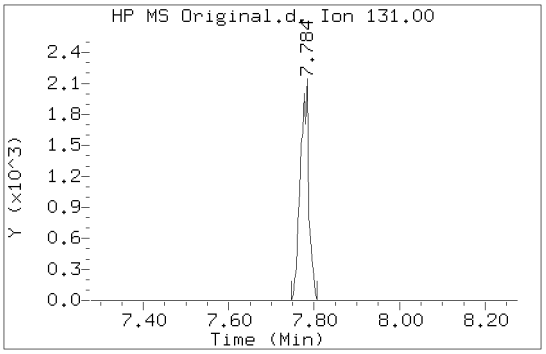


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

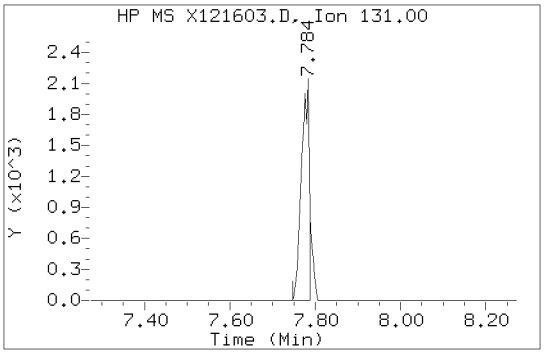
BEFORE

MASS
131
AREA
3036
HEIGHT
2146
27-Dec-2022
16:03
linh
pham



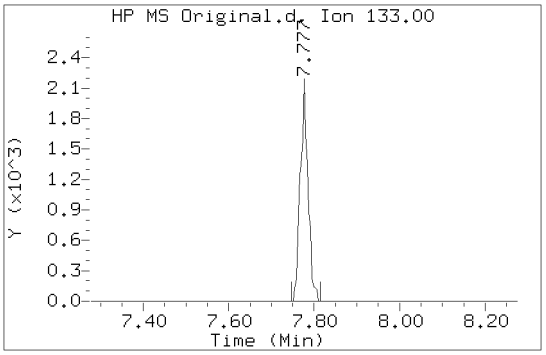
AFTER

MASS
131
AREA
2741
HEIGHT
2146
27-Dec-2022
16:07
linh
pham



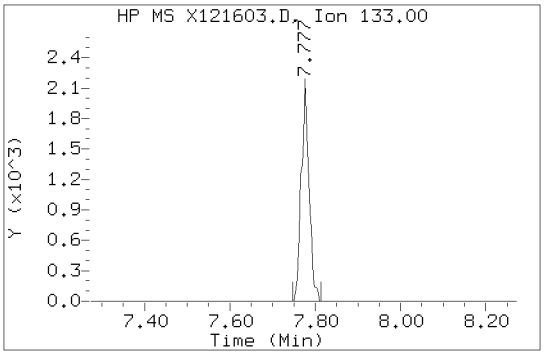
BEFORE

MASS
133
AREA
2829
HEIGHT
2191
27-Dec-2022
16:03
linh
pham



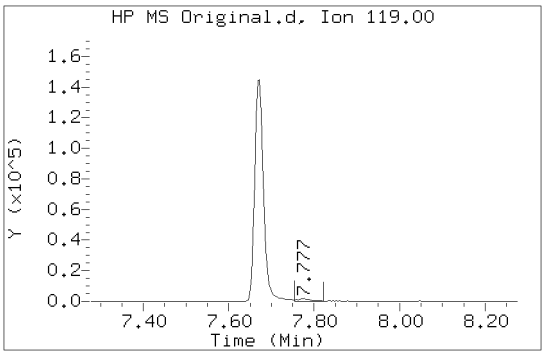
AFTER

MASS
133
AREA
2829
HEIGHT
2191
27-Dec-2022
16:07
linh
pham



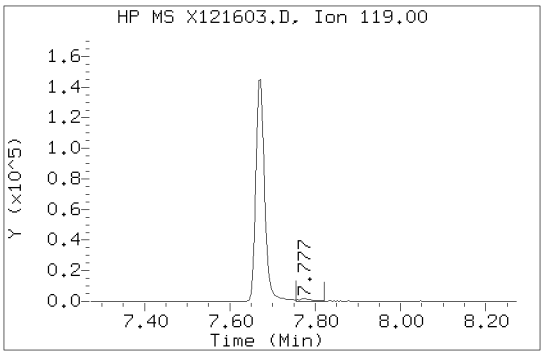
BEFORE

MASS
119
AREA
2971
HEIGHT
1971
27-Dec-2022
16:03
linh
pham



AFTER

MASS
119
AREA
2971
HEIGHT
1971
27-Dec-2022
16:07
linh
pham



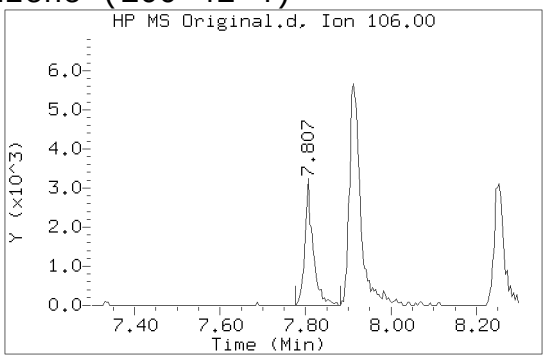
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethylbenzene (100-41-4)

Reason Code:

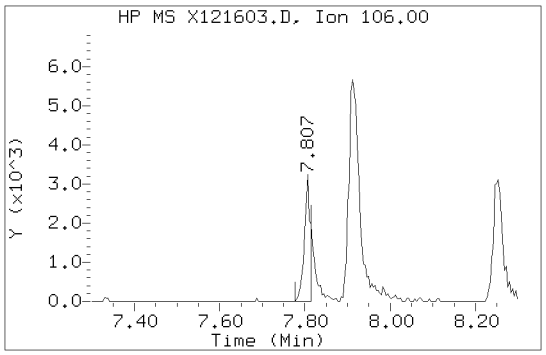
BEFORE

MASS
106
AREA
4331
HEIGHT
3242
27-Dec-2022
16:03
linh
pham



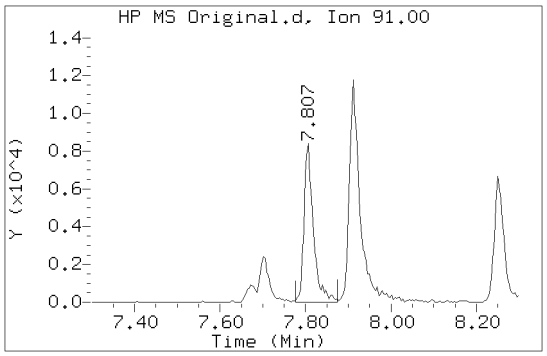
AFTER

MASS
106
AREA
3064
HEIGHT
3242
27-Dec-2022
16:07
linh
pham



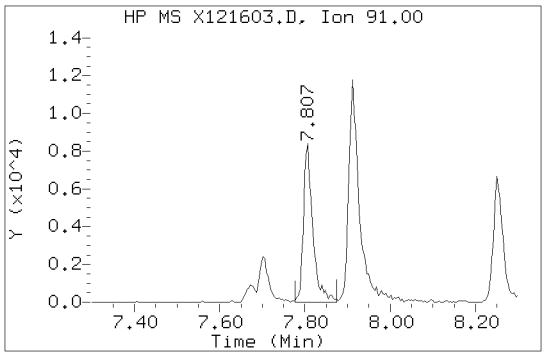
BEFORE

MASS
91
AREA
13136
HEIGHT
8410
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
13136
HEIGHT
8410
27-Dec-2022
16:07
linh
pham

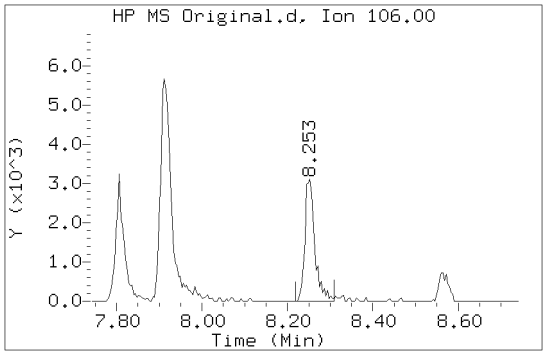


o-Xylene (95-47-6)

Reason Code:

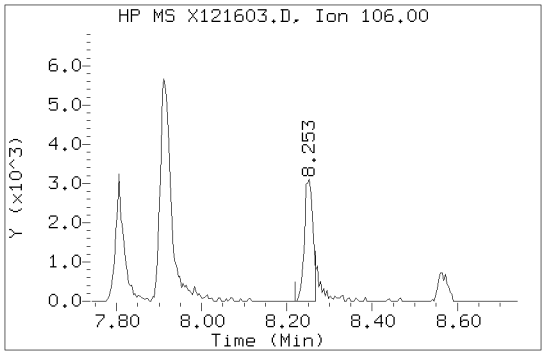
BEFORE

MASS
106
AREA
5100
HEIGHT
3111
27-Dec-2022
16:03
linh
pham



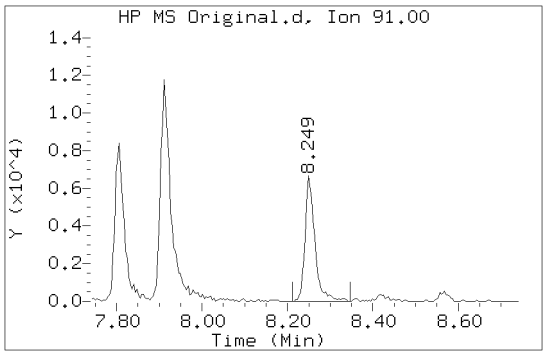
AFTER

MASS
106
AREA
4412
HEIGHT
3111
27-Dec-2022
16:07
linh
pham



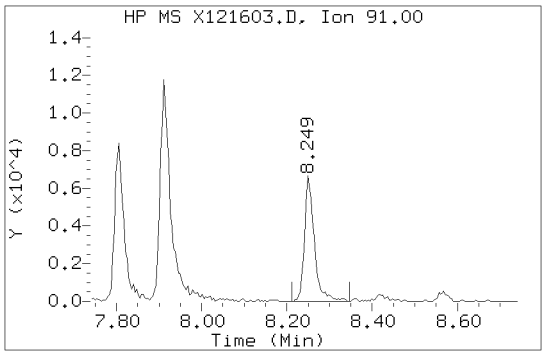
BEFORE

MASS
91
AREA
10808
HEIGHT
6665
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
10808
HEIGHT
6665
27-Dec-2022
16:07
linh
pham

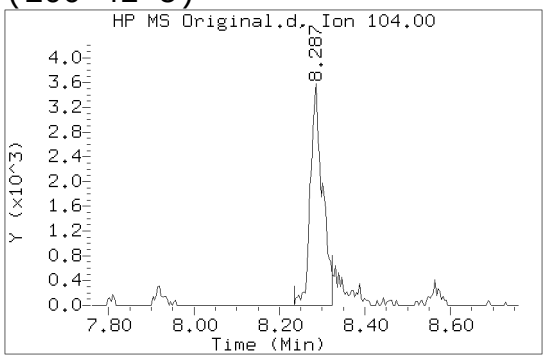


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

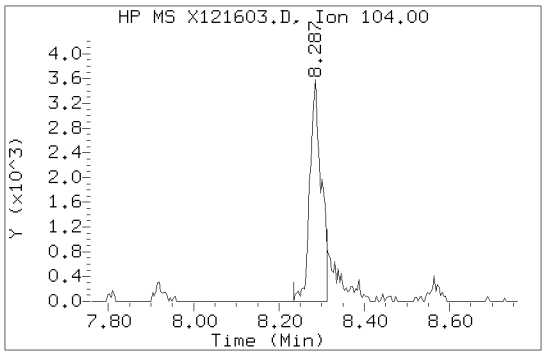
Styrene (100-42-5)

Reason Code:

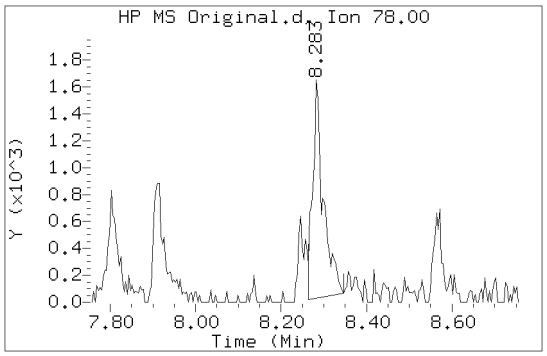
BEFORE
MASS
104
AREA
7074
HEIGHT
3581
27-Dec-2022
16:03
linh
pham



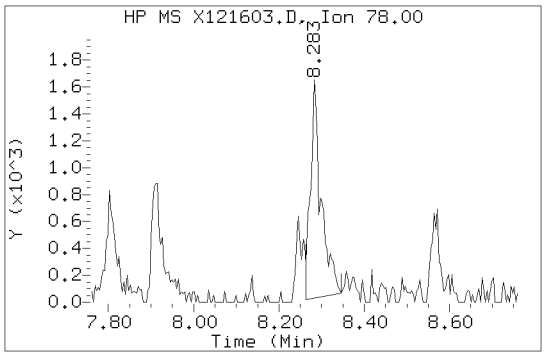
AFTER
MASS
104
AREA
6634
HEIGHT
3581
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
78
AREA
2827
HEIGHT
1622
27-Dec-2022
16:03
linh
pham



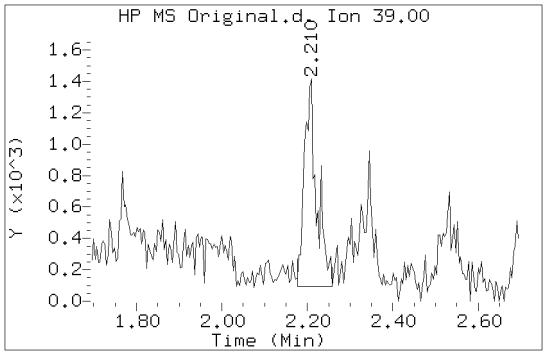
AFTER
MASS
78
AREA
2827
HEIGHT
1622
27-Dec-2022
16:07
linh
pham



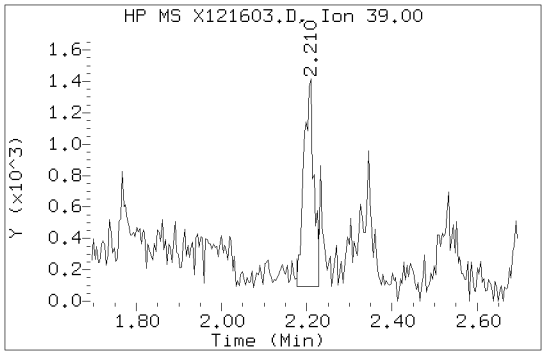
Acetonitrile (75-05-8)

Reason Code:

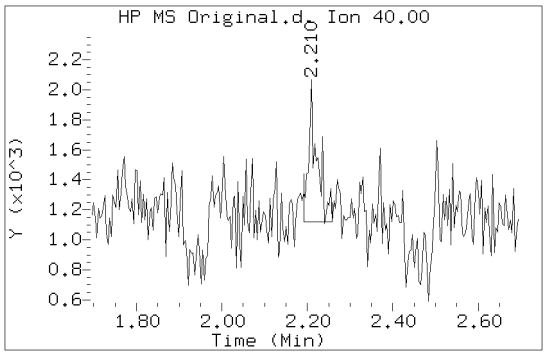
BEFORE
MASS
39
AREA
2674
HEIGHT
1321
27-Dec-2022
16:03
linh
pham



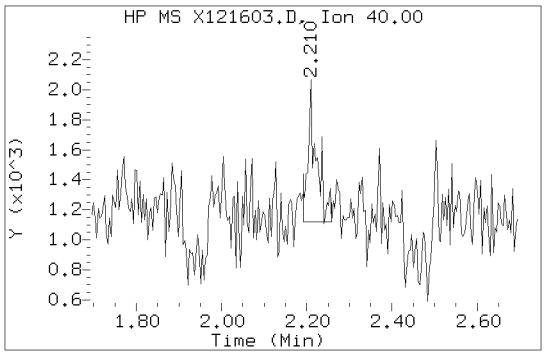
AFTER
MASS
39
AREA
2204
HEIGHT
1321
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
40
AREA
1296
HEIGHT
946
27-Dec-2022
16:03
linh
pham



AFTER
MASS
40
AREA
1296
HEIGHT
946
27-Dec-2022
16:07
linh
pham



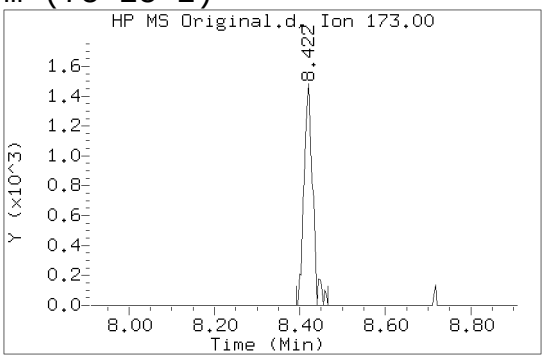
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

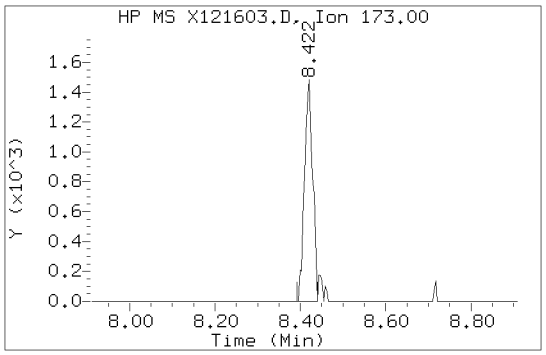
BEFORE

MASS
173
AREA
2158
HEIGHT
1483
27-Dec-2022
16:03
linh
pham



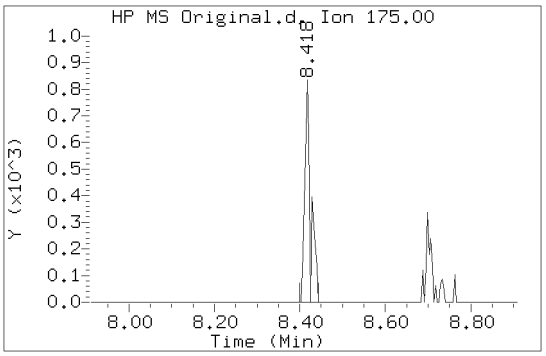
AFTER

MASS
173
AREA
2013
HEIGHT
1483
27-Dec-2022
16:07
linh
pham



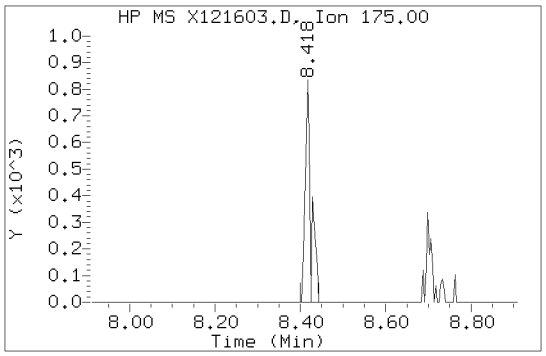
BEFORE

MASS
175
AREA
807
HEIGHT
835
27-Dec-2022
16:03
linh
pham



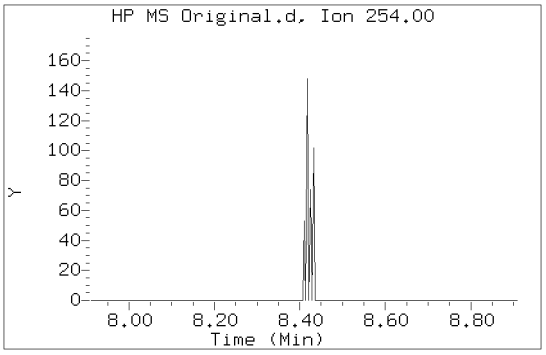
AFTER

MASS
175
AREA
807
HEIGHT
835
27-Dec-2022
16:07
linh
pham



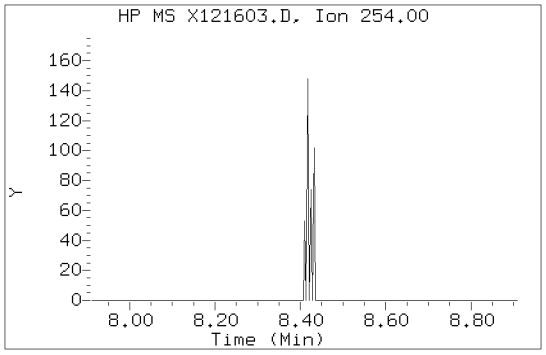
BEFORE

MASS
254
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

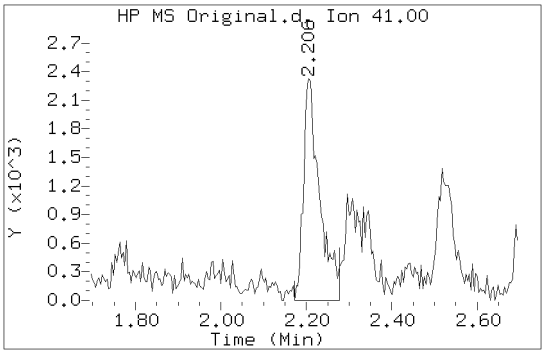


Allyl Chloride (107-05-1)

Reason Code:

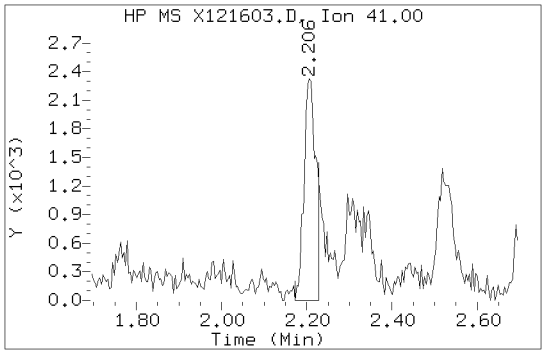
BEFORE

MASS
41
AREA
6169
HEIGHT
2326
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
4574
HEIGHT
2326
27-Dec-2022
16:07
linh
pham



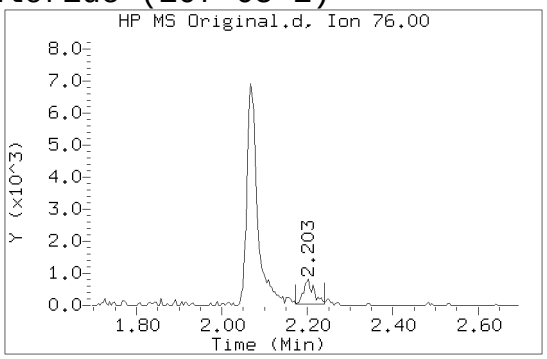
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Allyl Chloride (107-05-1)

Reason Code:

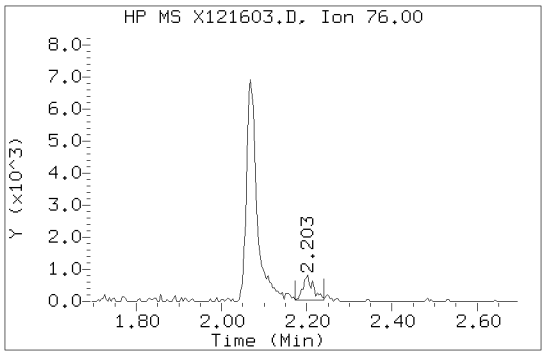
BEFORE

MASS
76
AREA
1254
HEIGHT
763
27-Dec-2022
16:03
linh
pham



AFTER

MASS
76
AREA
1254
HEIGHT
763
27-Dec-2022
16:07
linh
pham

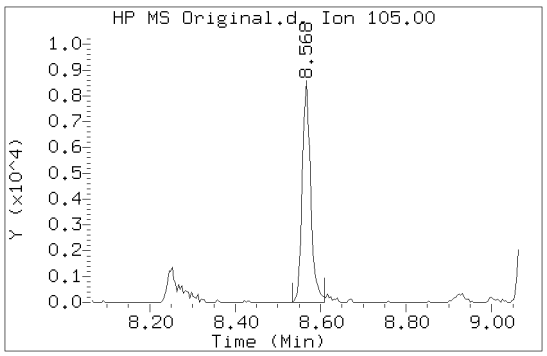


Isopropylbenzene (98-82-8)

Reason Code:

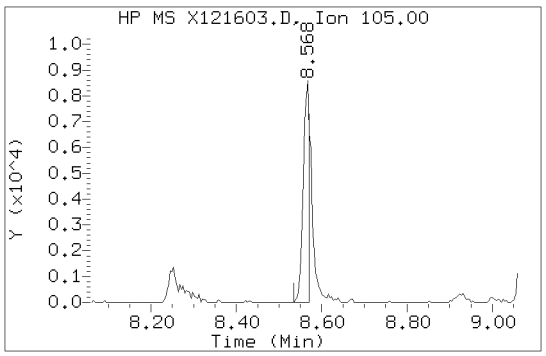
BEFORE

MASS
105
AREA
12091
HEIGHT
8588
27-Dec-2022
16:03
linh
pham



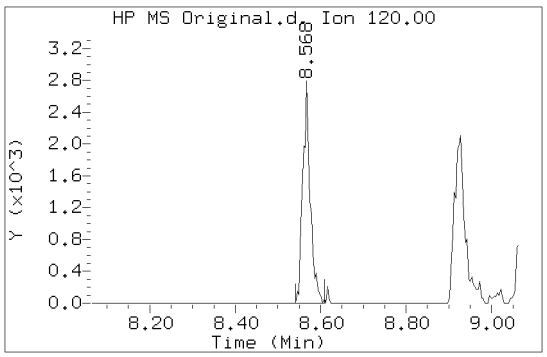
AFTER

MASS
105
AREA
8757
HEIGHT
8588
27-Dec-2022
16:07
linh
pham



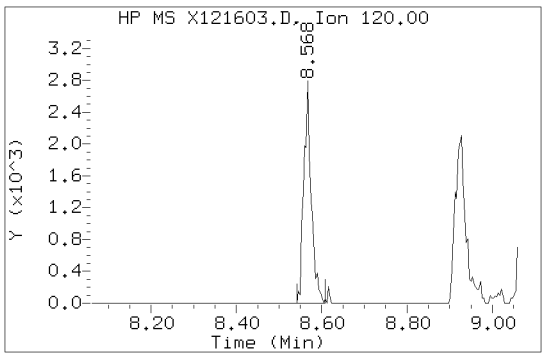
BEFORE

MASS
120
AREA
3462
HEIGHT
2793
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
3462
HEIGHT
2793
27-Dec-2022
16:07
linh
pham

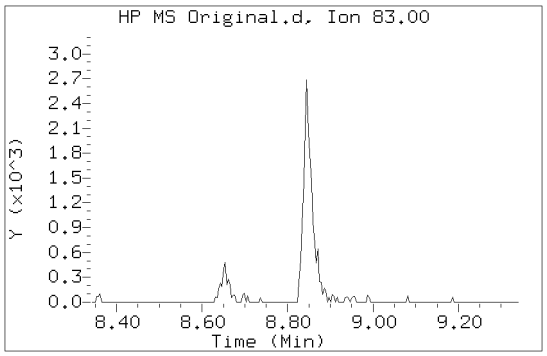


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

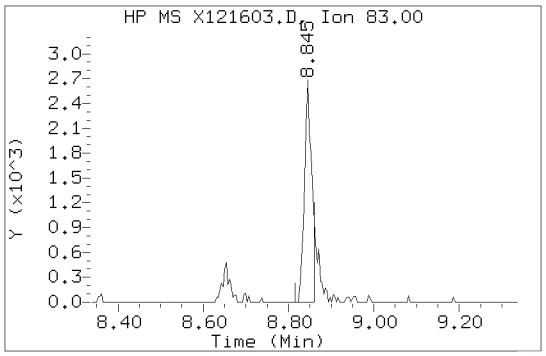
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
3194
HEIGHT
2685
27-Dec-2022
16:07
linh
pham



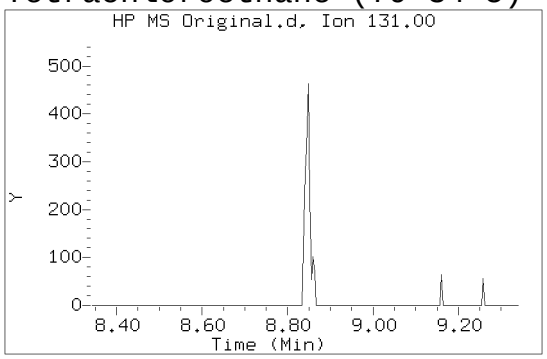
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

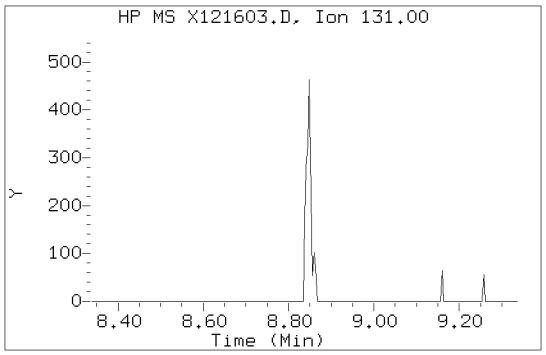
BEFORE

MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



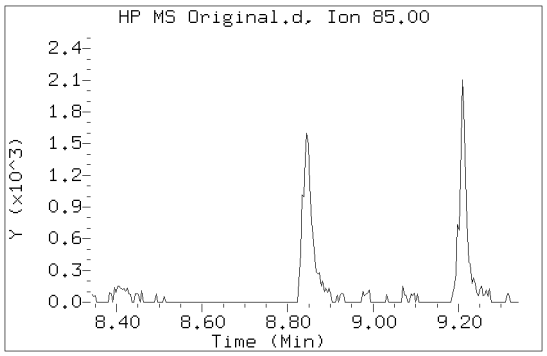
AFTER

MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



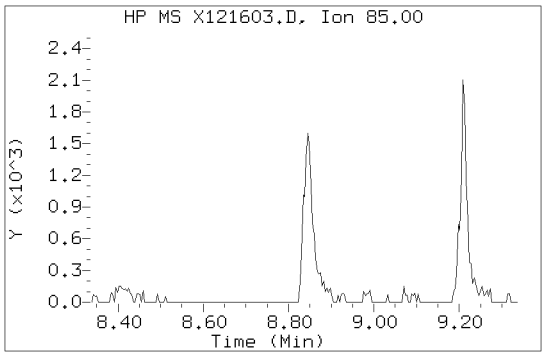
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

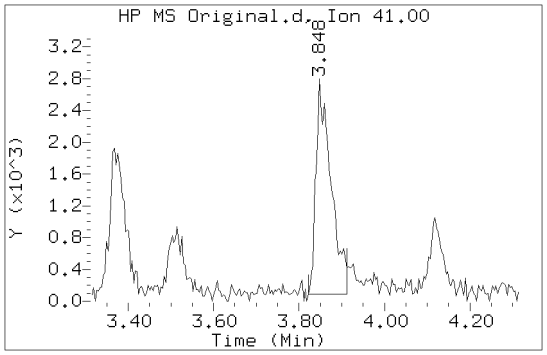


Methacrylonitrile (126-98-7)

Reason Code:

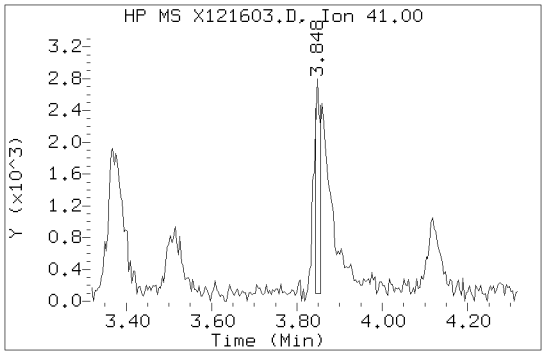
BEFORE

MASS
41
AREA
6587
HEIGHT
2708
27-Dec-2022
16:03
linh
pham



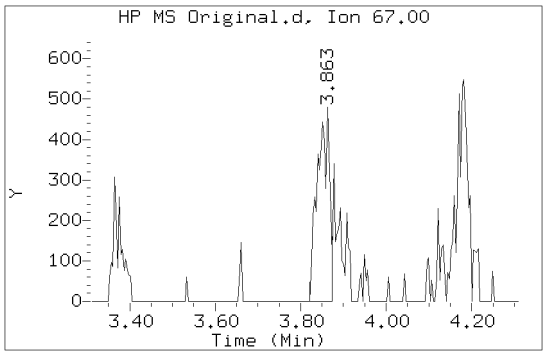
AFTER

MASS
41
AREA
2066
HEIGHT
2701
27-Dec-2022
16:07
linh
pham



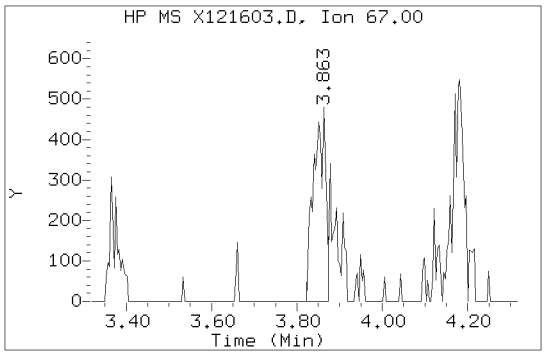
BEFORE

MASS
67
AREA
937
HEIGHT
480
27-Dec-2022
16:03
linh
pham



AFTER

MASS
67
AREA
937
HEIGHT
480
27-Dec-2022
16:07
linh
pham



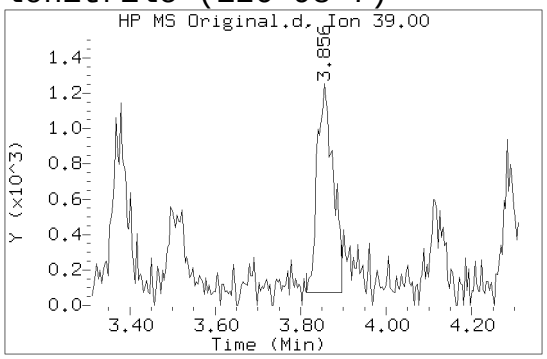
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

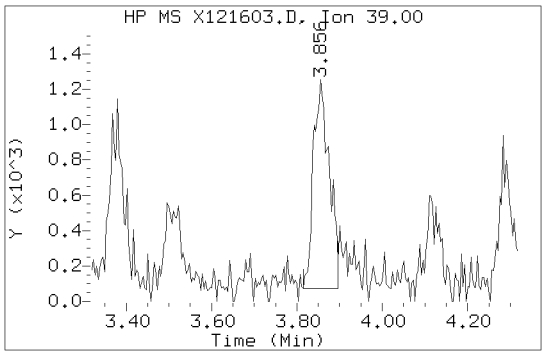
BEFORE

MASS
39
AREA
3048
HEIGHT
1181
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
3048
HEIGHT
1181
27-Dec-2022
16:07
linh
pham

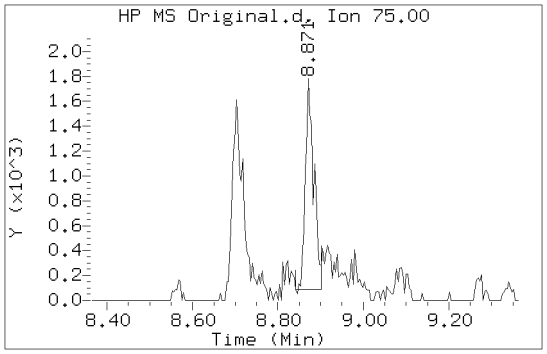


1,2,3-Trichloropropane (96-18-4)

Reason Code:

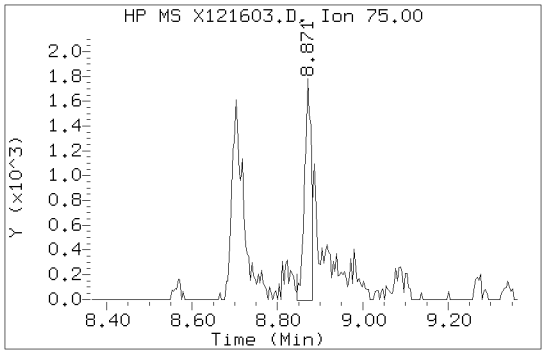
BEFORE

MASS
75
AREA
2351
HEIGHT
1693
27-Dec-2022
16:03
linh
pham



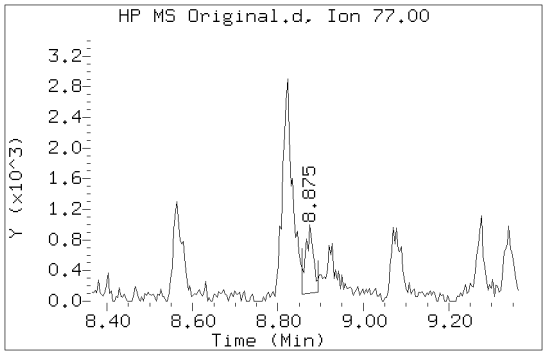
AFTER

MASS
75
AREA
2019
HEIGHT
1788
27-Dec-2022
16:07
linh
pham



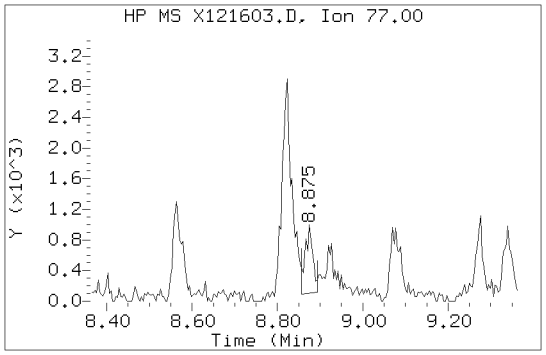
BEFORE

MASS
77
AREA
1161
HEIGHT
895
27-Dec-2022
16:03
linh
pham



AFTER

MASS
77
AREA
1161
HEIGHT
895
27-Dec-2022
16:07
linh
pham

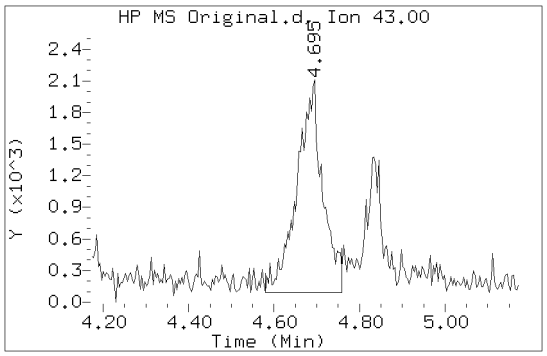


Isobutyl Alcohol (78-83-1)

Reason Code:

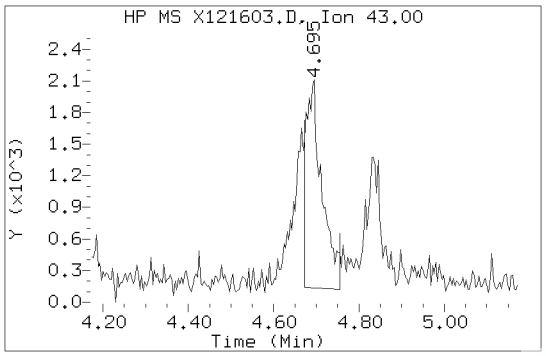
BEFORE

MASS
43
AREA
8478
HEIGHT
2018
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
5178
HEIGHT
1973
27-Dec-2022
16:07
linh
pham

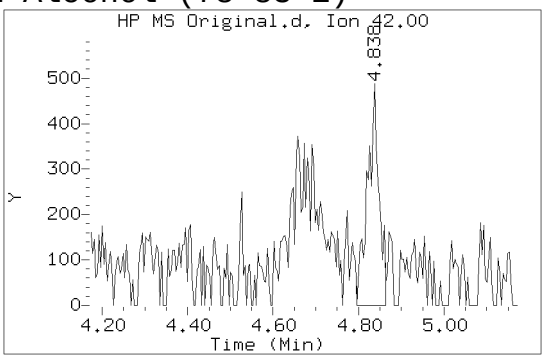


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

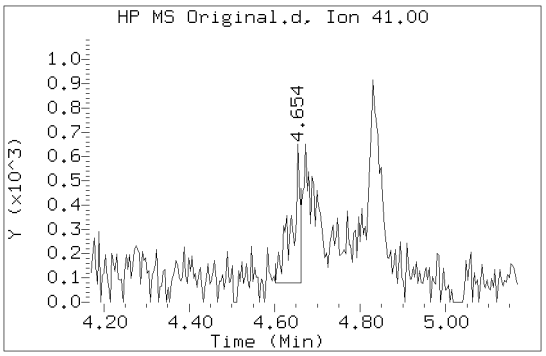
BEFORE

MASS
42
AREA
904
HEIGHT
488
27-Dec-2022
16:03
linh
pham



BEFORE

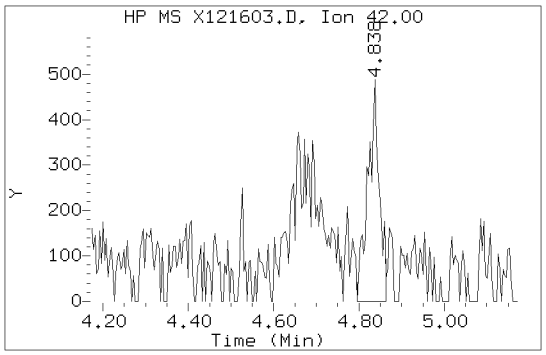
MASS
41
AREA
776
HEIGHT
572
27-Dec-2022
16:03
linh
pham



Reason Code:

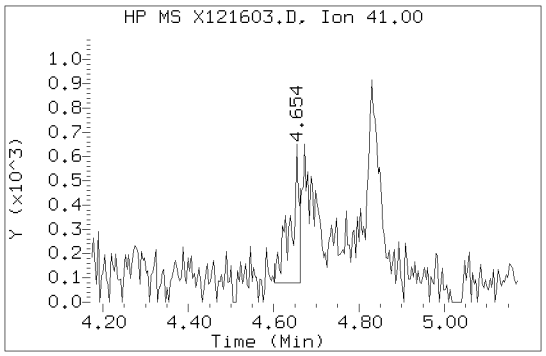
AFTER

MASS
42
AREA
904
HEIGHT
488
27-Dec-2022
16:07
linh
pham



AFTER

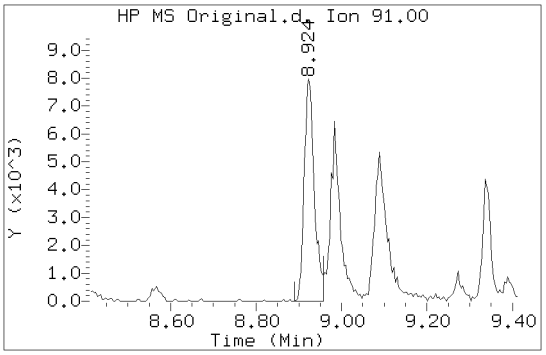
MASS
41
AREA
776
HEIGHT
572
27-Dec-2022
16:07
linh
pham



n-Propylbenzene (106-65-1)

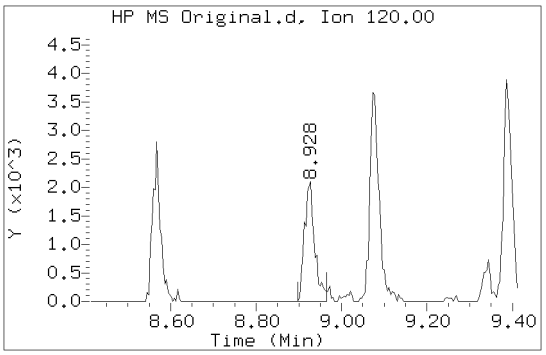
BEFORE

MASS
91
AREA
13496
HEIGHT
7972
27-Dec-2022
16:03
linh
pham



BEFORE

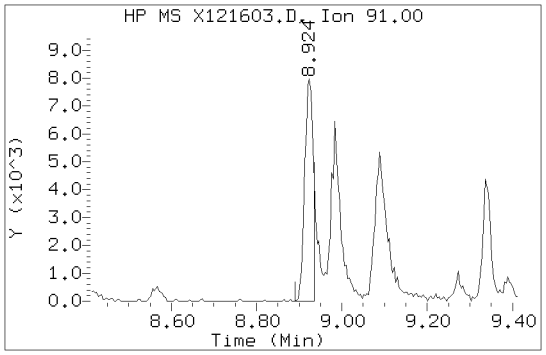
MASS
120
AREA
3559
HEIGHT
2104
27-Dec-2022
16:03
linh
pham



Reason Code:

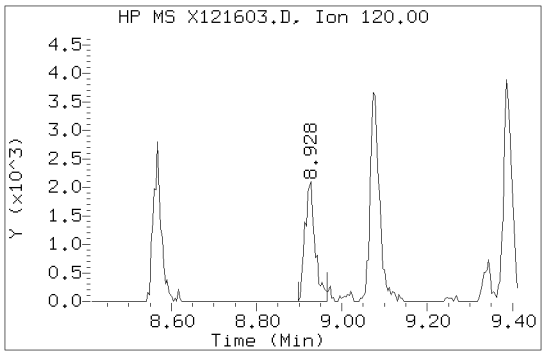
AFTER

MASS
91
AREA
11163
HEIGHT
7972
27-Dec-2022
16:07
linh
pham



AFTER

MASS
120
AREA
3559
HEIGHT
2104
27-Dec-2022
16:07
linh
pham

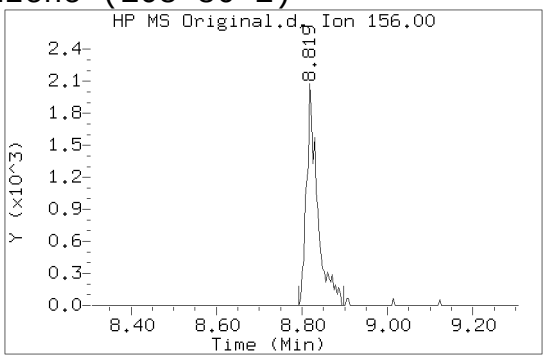


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

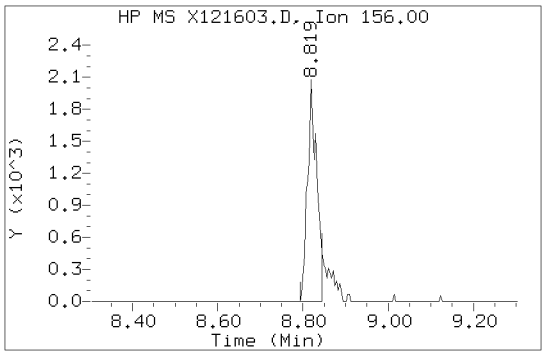
Bromobenzene (108-86-1)

Reason Code:

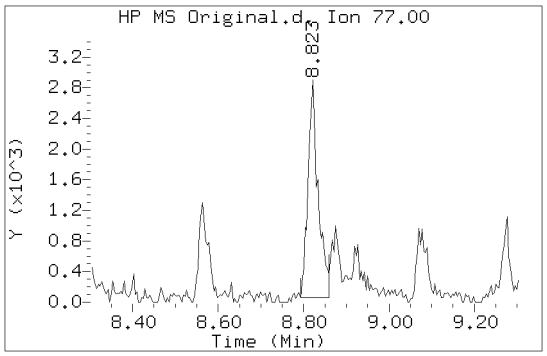
BEFORE
MASS
156
AREA
3747
HEIGHT
2077
27-Dec-2022
16:03
linh
pham



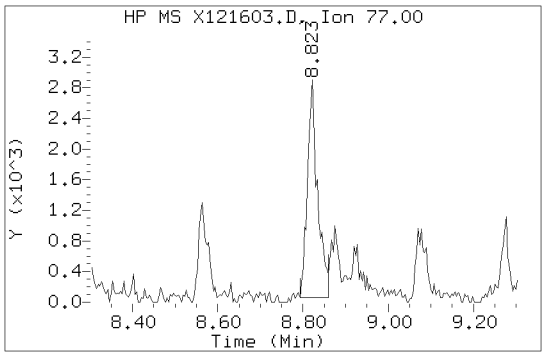
AFTER
MASS
156
AREA
3147
HEIGHT
2077
27-Dec-2022
16:07
linh
pham



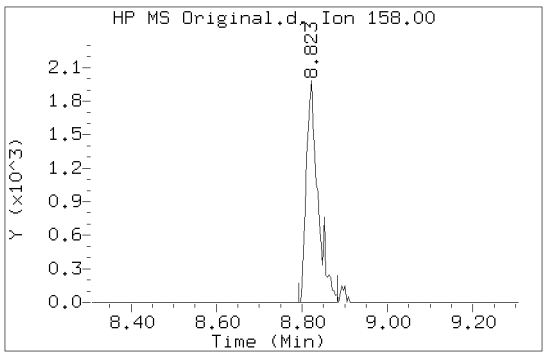
BEFORE
MASS
77
AREA
4719
HEIGHT
2841
27-Dec-2022
16:03
linh
pham



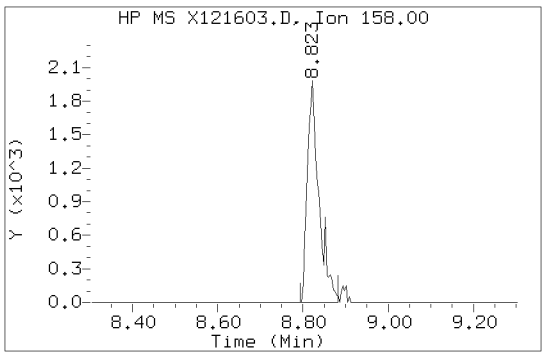
AFTER
MASS
77
AREA
4719
HEIGHT
2841
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
158
AREA
3772
HEIGHT
1983
27-Dec-2022
16:03
linh
pham



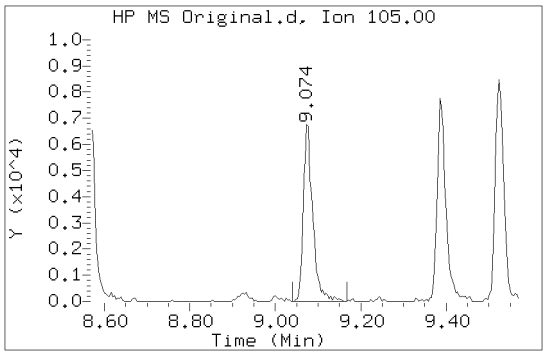
AFTER
MASS
158
AREA
3772
HEIGHT
1983
27-Dec-2022
16:07
linh
pham



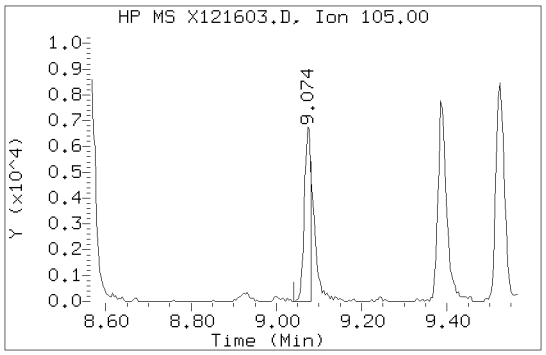
1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

BEFORE
MASS
105
AREA
10555
HEIGHT
6758
27-Dec-2022
16:03
linh
pham



AFTER
MASS
105
AREA
7182
HEIGHT
6758
27-Dec-2022
16:07
linh
pham



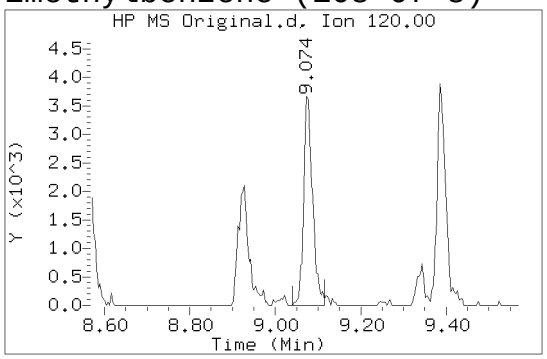
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

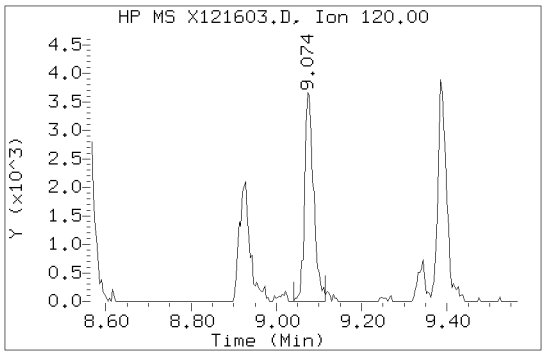
BEFORE

MASS
120
AREA
5450
HEIGHT
3663
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
5450
HEIGHT
3663
27-Dec-2022
16:07
linh
pham

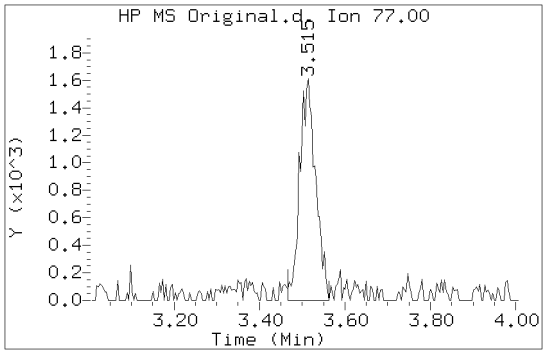


2,2-Dichloropropane (594-20-7)

Reason Code:

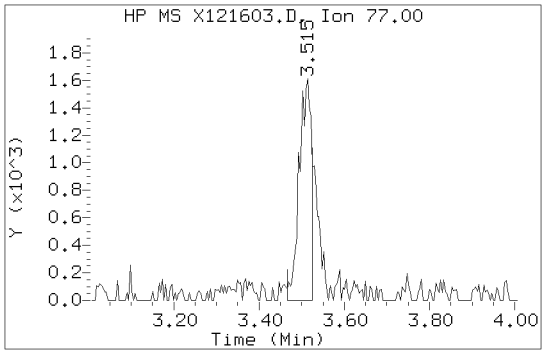
BEFORE

MASS
77
AREA
4217
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



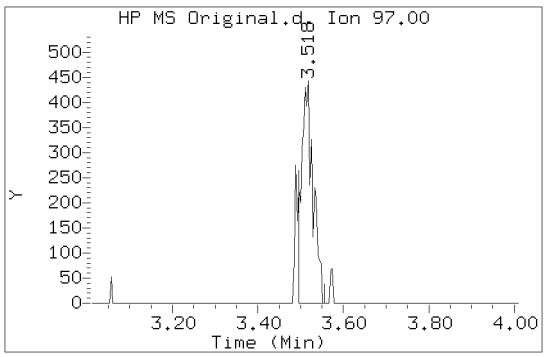
AFTER

MASS
77
AREA
3238
HEIGHT
1612
27-Dec-2022
16:07
linh
pham



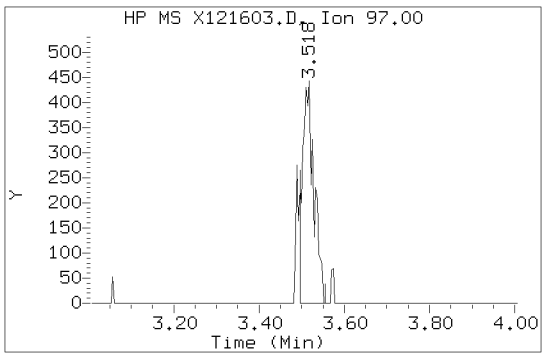
BEFORE

MASS
97
AREA
843
HEIGHT
443
27-Dec-2022
16:03
linh
pham



AFTER

MASS
97
AREA
843
HEIGHT
443
27-Dec-2022
16:07
linh
pham

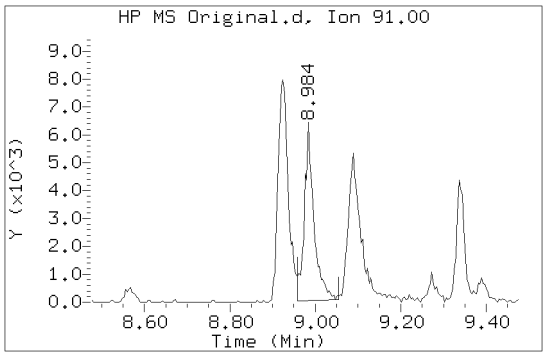


2-Chlorotoluene (95-49-8)

Reason Code:

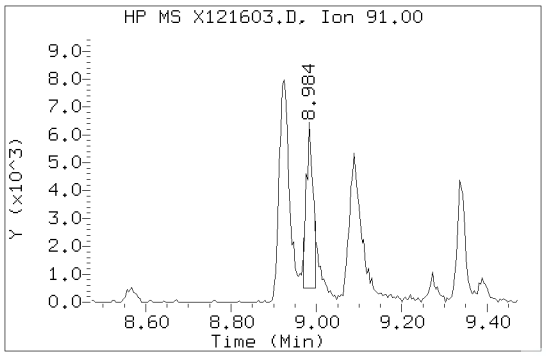
BEFORE

MASS
91
AREA
10128
HEIGHT
6401
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
6718
HEIGHT
5942
27-Dec-2022
16:07
linh
pham



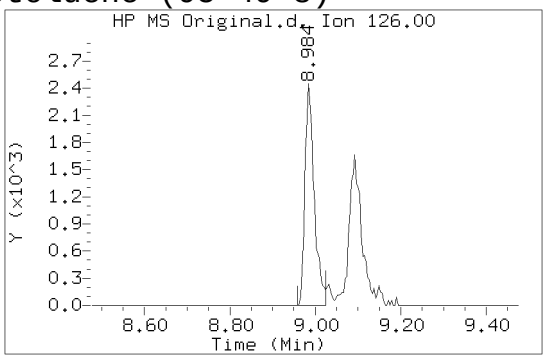
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

Reason Code:

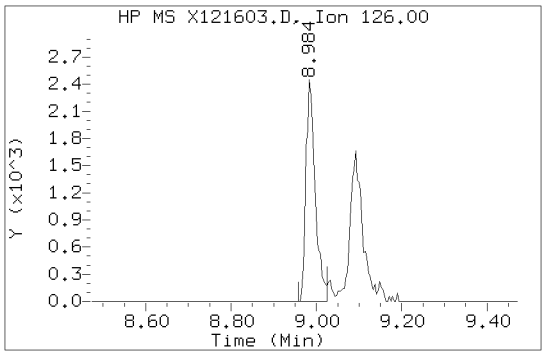
BEFORE

MASS
126
AREA
3761
HEIGHT
2450
27-Dec-2022
16:03
linh
pham



AFTER

MASS
126
AREA
3761
HEIGHT
2450
27-Dec-2022
16:07
linh
pham

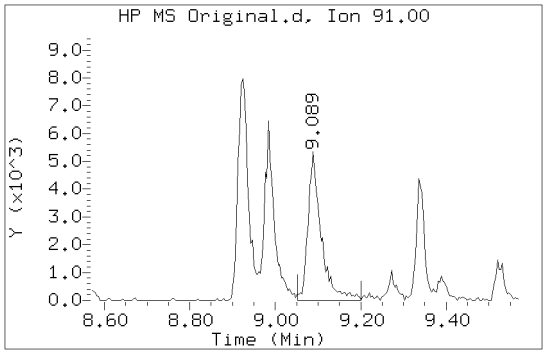


4-Chlorotoluene (106-43-4)

Reason Code:

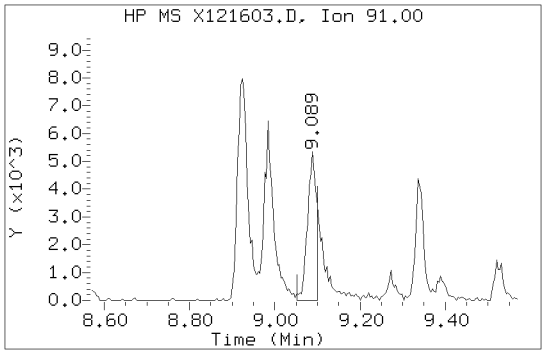
BEFORE

MASS
91
AREA
11481
HEIGHT
5337
27-Dec-2022
16:03
linh
pham



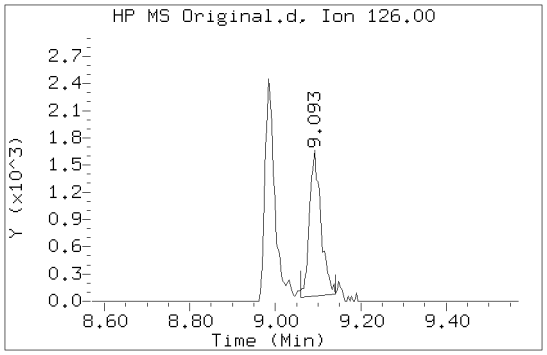
AFTER

MASS
91
AREA
7644
HEIGHT
5337
27-Dec-2022
16:07
linh
pham



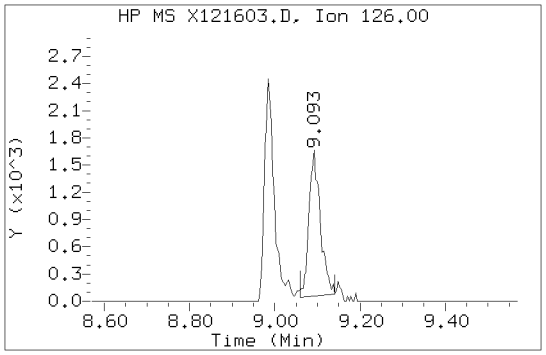
BEFORE

MASS
126
AREA
3008
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



AFTER

MASS
126
AREA
3008
HEIGHT
1612
27-Dec-2022
16:07
linh
pham

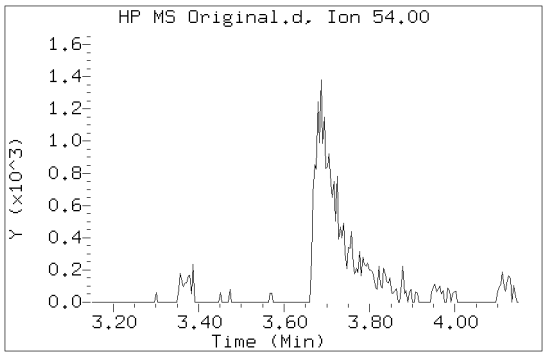


Propionitrile (107-12-0)

Reason Code:

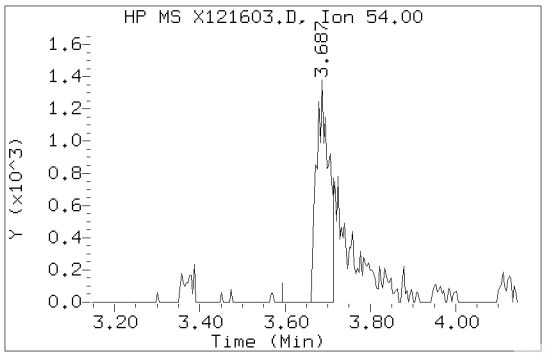
BEFORE

MASS
54
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
54
AREA
2777
HEIGHT
1380
27-Dec-2022
16:07
linh
pham



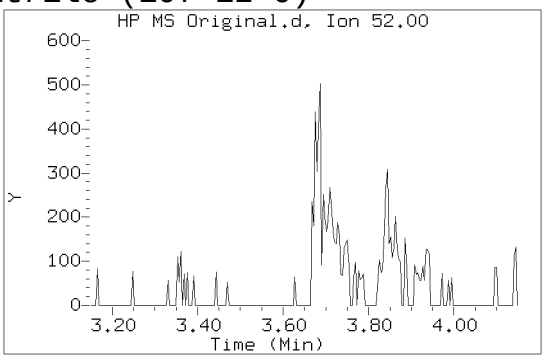
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

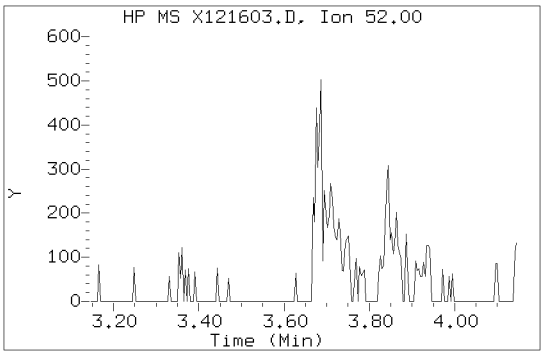
BEFORE

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



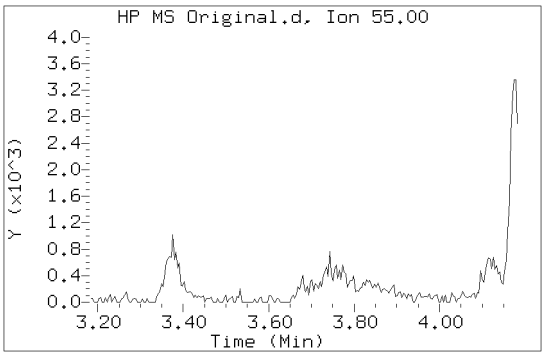
AFTER

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



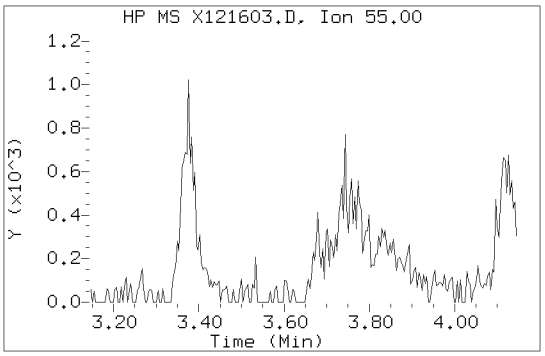
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

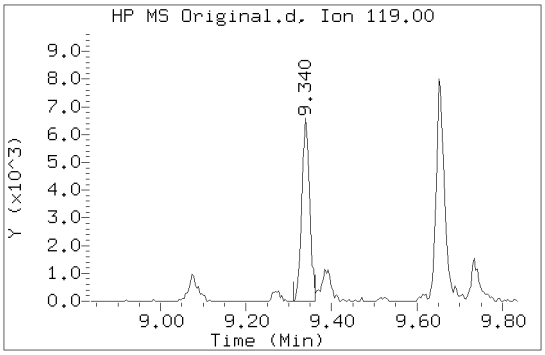


tert-Butylbenzene (98-06-6)

Reason Code:

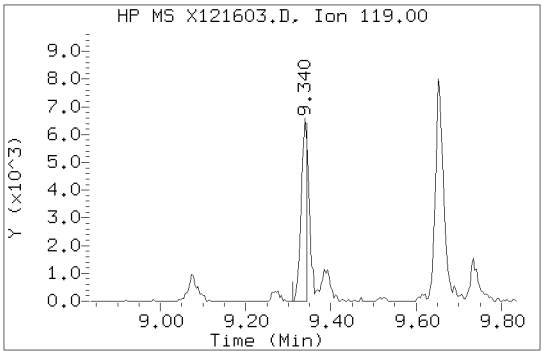
BEFORE

MASS
119
AREA
8660
HEIGHT
6598
27-Dec-2022
16:03
linh
pham



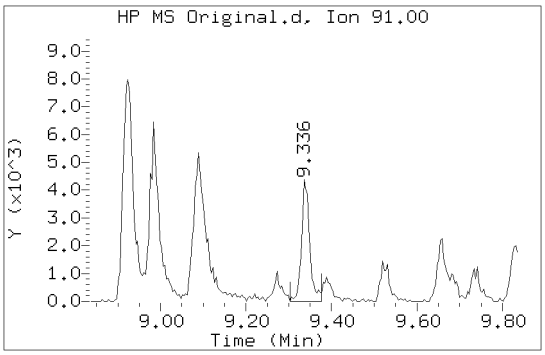
AFTER

MASS
119
AREA
6389
HEIGHT
6598
27-Dec-2022
16:07
linh
pham



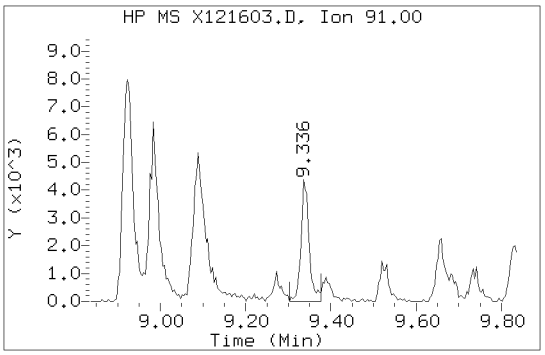
BEFORE

MASS
91
AREA
6013
HEIGHT
4378
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
6013
HEIGHT
4378
27-Dec-2022
16:07
linh
pham



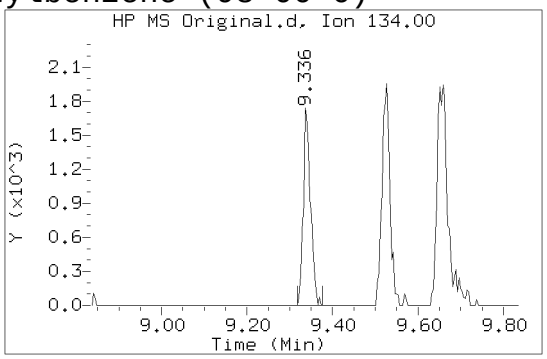
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butylbenzene (98-06-6)

Reason Code:

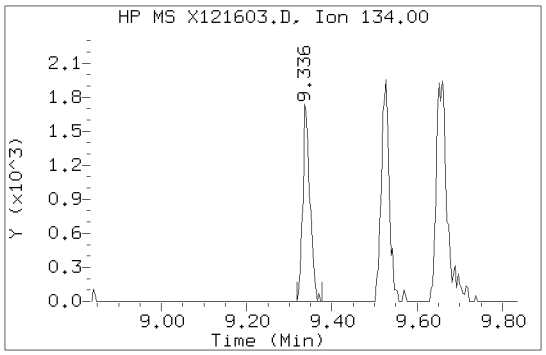
BEFORE

MASS
134
AREA
2112
HEIGHT
1740
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2112
HEIGHT
1740
27-Dec-2022
16:07
linh
pham

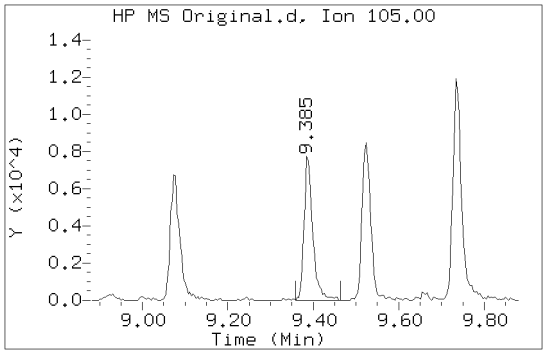


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

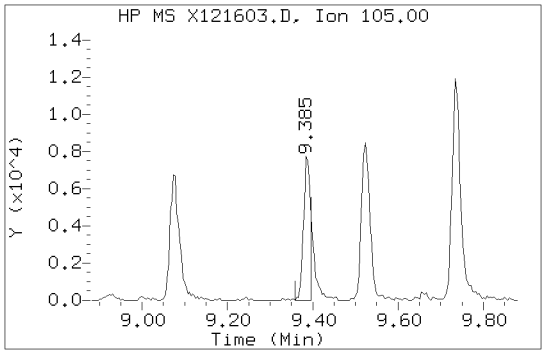
BEFORE

MASS
105
AREA
11065
HEIGHT
7775
27-Dec-2022
16:03
linh
pham



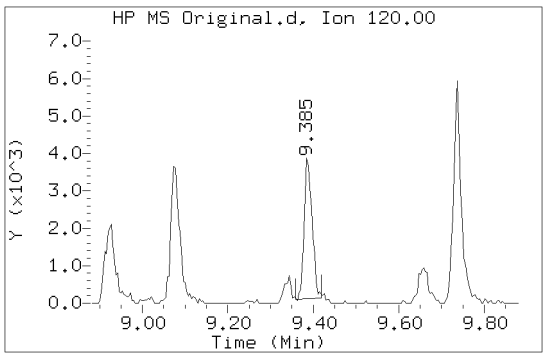
AFTER

MASS
105
AREA
8496
HEIGHT
7775
27-Dec-2022
16:07
linh
pham



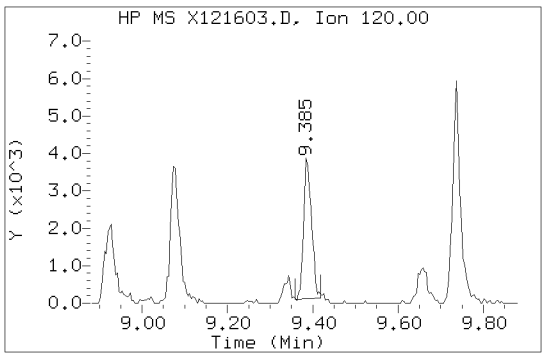
BEFORE

MASS
120
AREA
4898
HEIGHT
3773
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
4898
HEIGHT
3773
27-Dec-2022
16:07
linh
pham

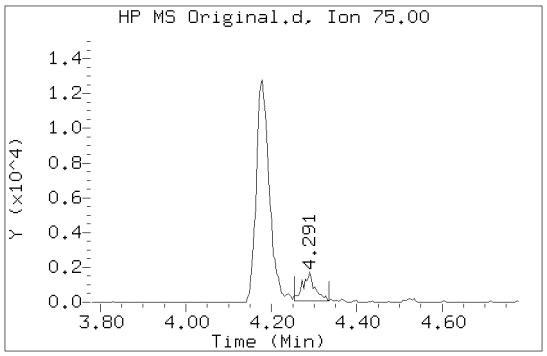


1,1-Dichloropropene (563-58-6)

Reason Code:

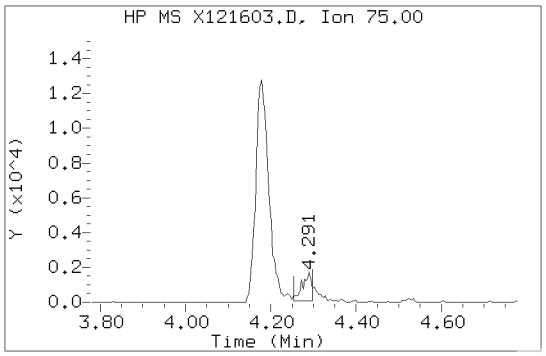
BEFORE

MASS
75
AREA
3235
HEIGHT
1674
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
2468
HEIGHT
1674
27-Dec-2022
16:07
linh
pham



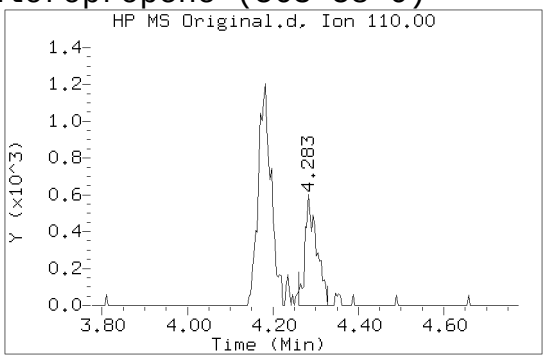
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

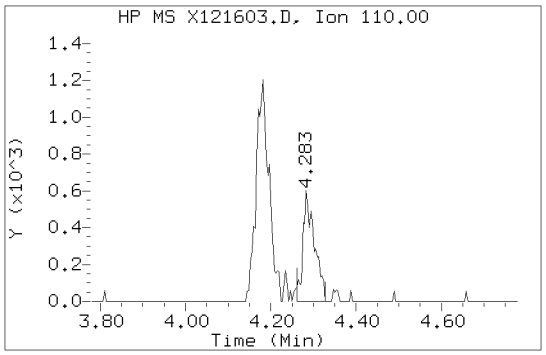
BEFORE

MASS
110
AREA
1143
HEIGHT
603
27-Dec-2022
16:03
linh
pham



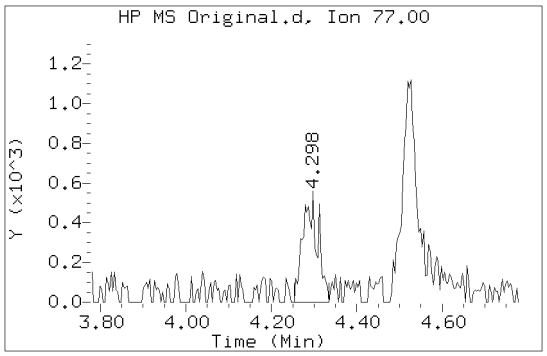
AFTER

MASS
110
AREA
1143
HEIGHT
603
27-Dec-2022
16:07
linh
pham



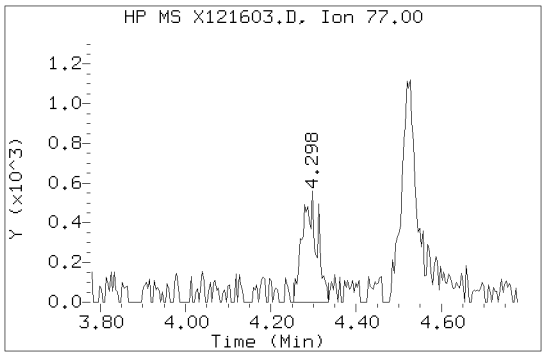
BEFORE

MASS
77
AREA
1342
HEIGHT
559
27-Dec-2022
16:03
linh
pham



AFTER

MASS
77
AREA
1342
HEIGHT
559
27-Dec-2022
16:07
linh
pham

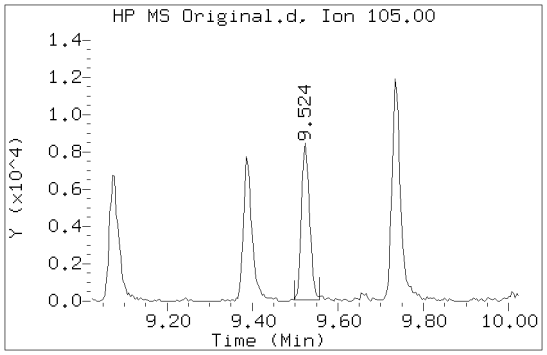


sec-Butylbenzene (135-98-8)

Reason Code:

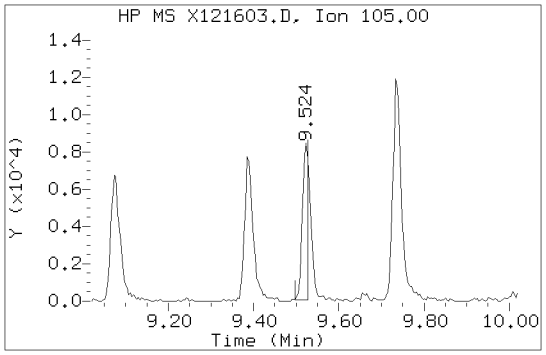
BEFORE

MASS
105
AREA
11512
HEIGHT
8394
27-Dec-2022
16:03
linh
pham



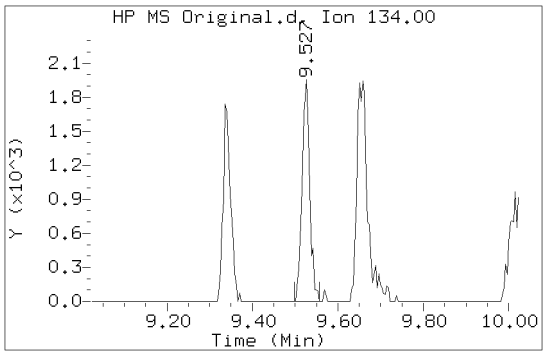
AFTER

MASS
105
AREA
7938
HEIGHT
8394
27-Dec-2022
16:07
linh
pham



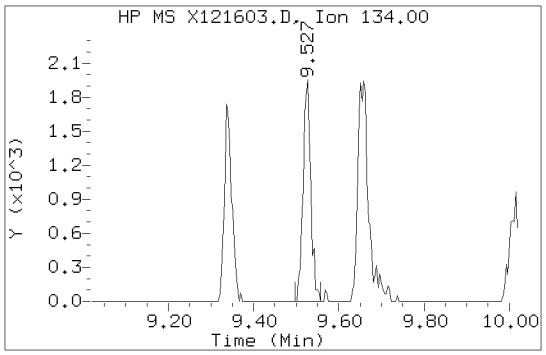
BEFORE

MASS
134
AREA
2519
HEIGHT
1955
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2519
HEIGHT
1955
27-Dec-2022
16:07
linh
pham

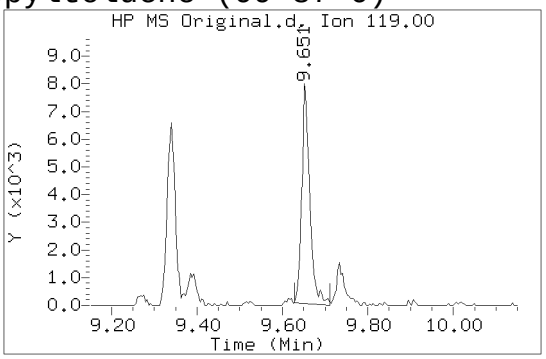


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

p-Isopropyltoluene (99-87-6)

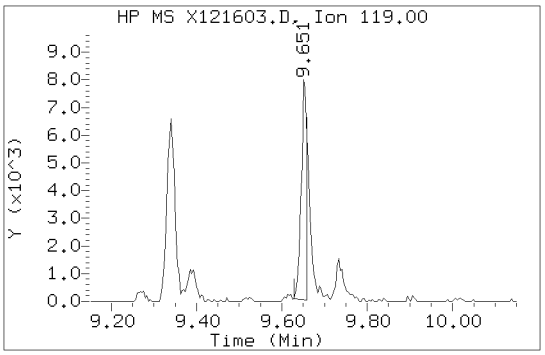
BEFORE

MASS
119
AREA
10660
HEIGHT
7944
27-Dec-2022
16:03
linh
pham



AFTER

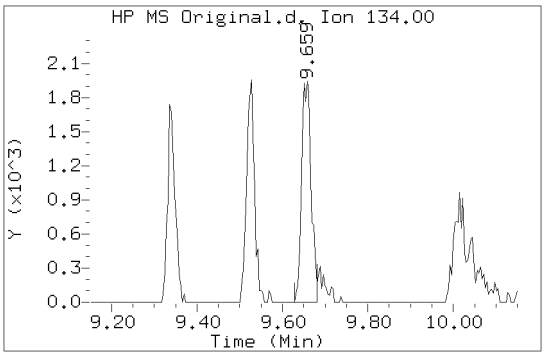
MASS
119
AREA
7343
HEIGHT
7944
27-Dec-2022
16:07
linh
pham



Reason Code:

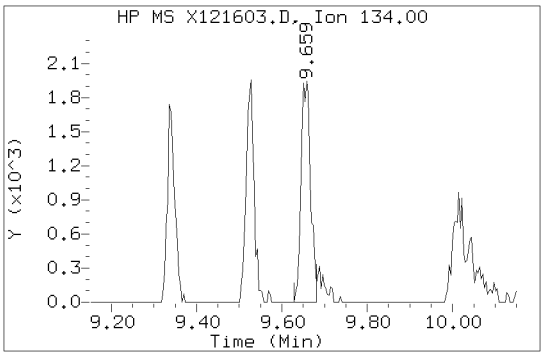
BEFORE

MASS
134
AREA
3102
HEIGHT
1946
27-Dec-2022
16:03
linh
pham



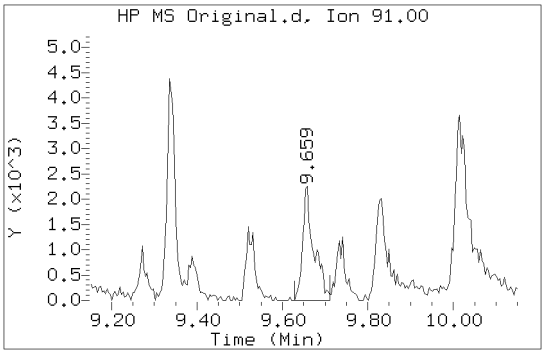
AFTER

MASS
134
AREA
3102
HEIGHT
1946
27-Dec-2022
16:07
linh
pham



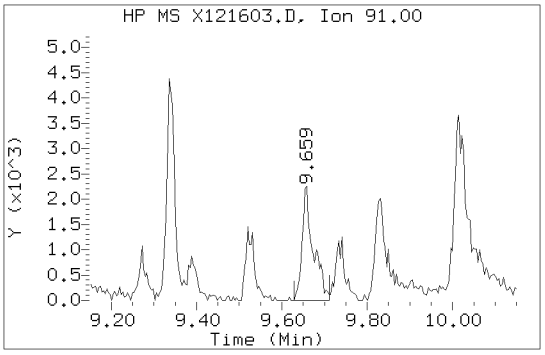
BEFORE

MASS
91
AREA
4191
HEIGHT
2256
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
4191
HEIGHT
2256
27-Dec-2022
16:07
linh
pham

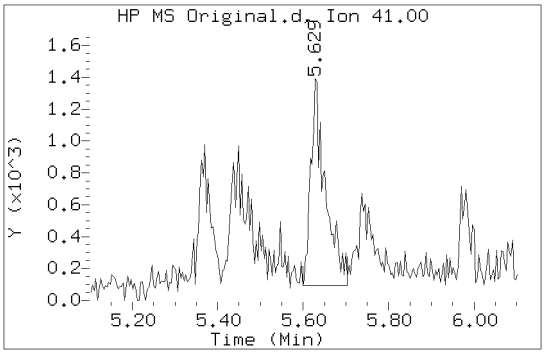


Methyl Methacrylate (80-62-6)

Reason Code:

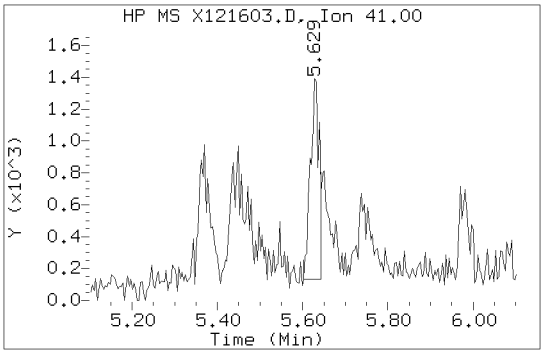
BEFORE

MASS
41
AREA
3067
HEIGHT
1299
27-Dec-2022
16:03
linh
pham



AFTER

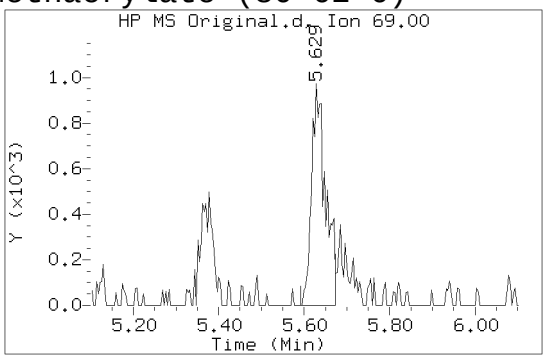
MASS
41
AREA
1788
HEIGHT
1257
27-Dec-2022
16:07
linh
pham



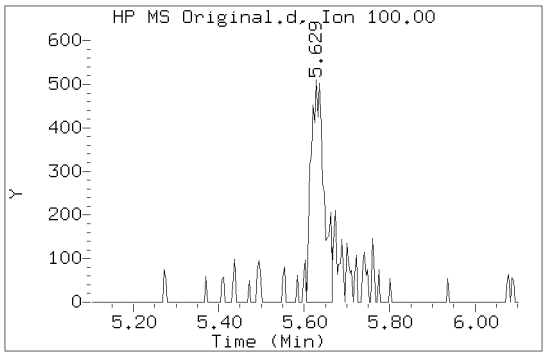
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

BEFORE
MASS
69
AREA
2216
HEIGHT
973
27-Dec-2022
16:03
linh
pham

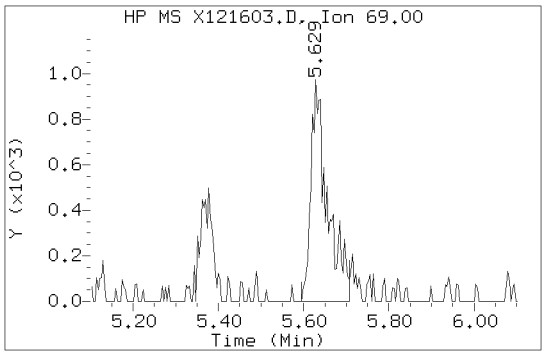


BEFORE
MASS
100
AREA
1074
HEIGHT
510
27-Dec-2022
16:03
linh
pham

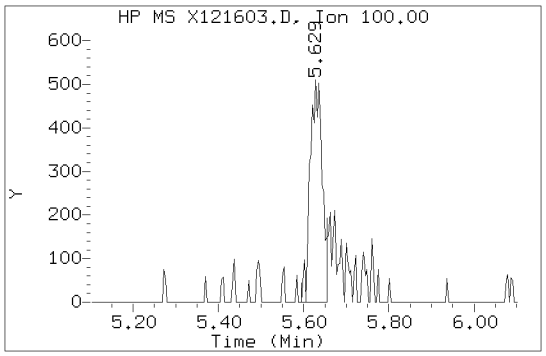


Reason Code:

AFTER
MASS
69
AREA
2595
HEIGHT
973
27-Dec-2022
16:07
linh
pham

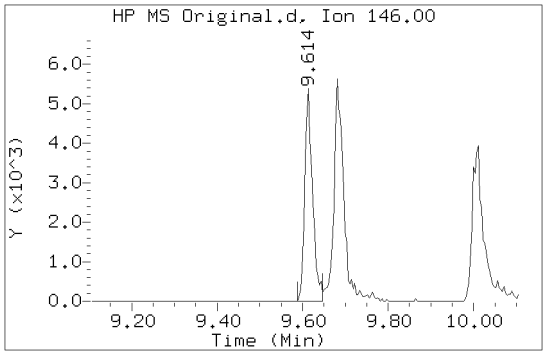


AFTER
MASS
100
AREA
1011
HEIGHT
510
27-Dec-2022
16:07
linh
pham

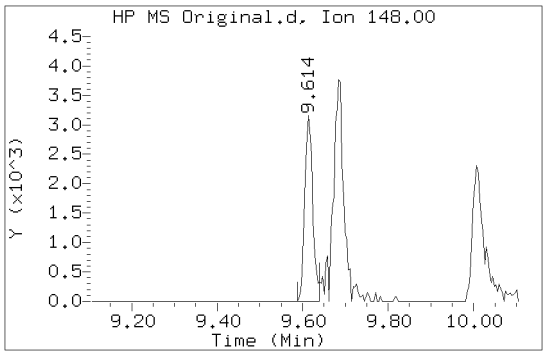


1,3-Dichlorobenzene (541-73-1)

BEFORE
MASS
146
AREA
6964
HEIGHT
5387
27-Dec-2022
16:03
linh
pham

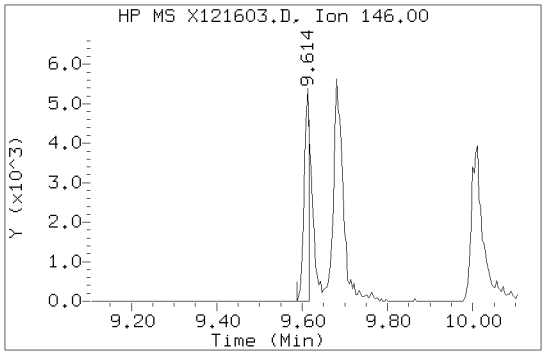


BEFORE
MASS
148
AREA
4216
HEIGHT
3157
27-Dec-2022
16:03
linh
pham

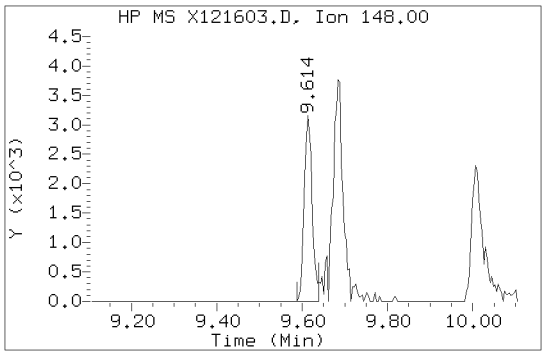


Reason Code:

AFTER
MASS
146
AREA
4677
HEIGHT
5387
27-Dec-2022
16:07
linh
pham



AFTER
MASS
148
AREA
4216
HEIGHT
3157
27-Dec-2022
16:07
linh
pham



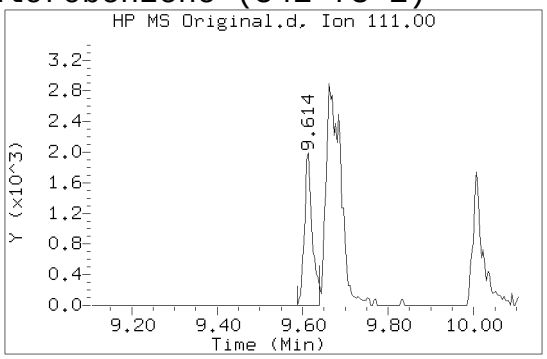
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,3-Dichlorobenzene (541-73-1)

Reason Code:

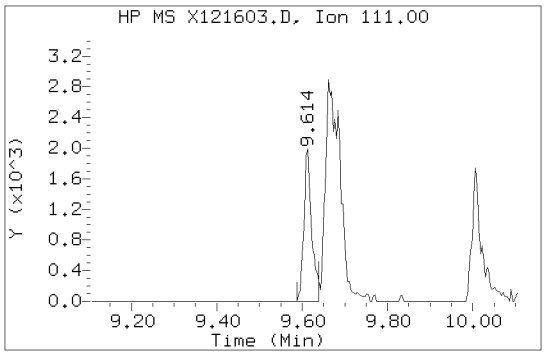
BEFORE

MASS
111
AREA
2596
HEIGHT
1995
27-Dec-2022
16:03
linh
pham



AFTER

MASS
111
AREA
2596
HEIGHT
1995
27-Dec-2022
16:07
linh
pham

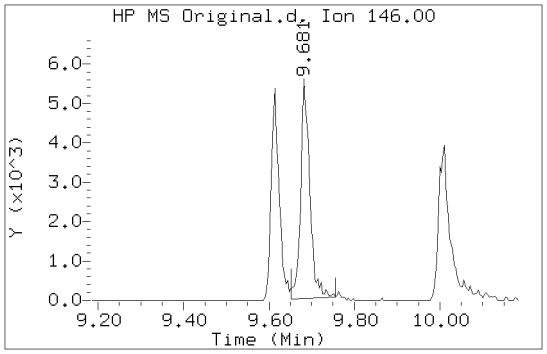


1,4-Dichlorobenzene (106-46-7)

Reason Code:

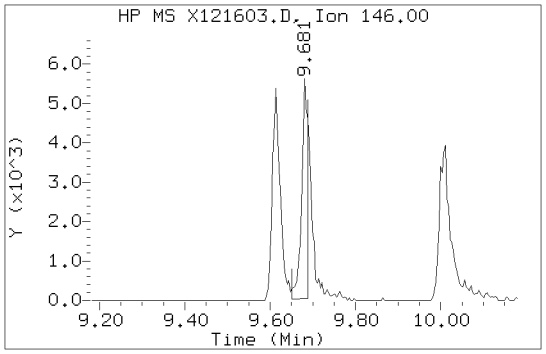
BEFORE

MASS
146
AREA
8510
HEIGHT
5586
27-Dec-2022
16:03
linh
pham



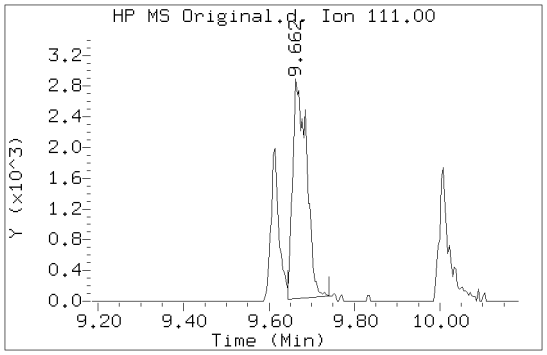
AFTER

MASS
146
AREA
5674
HEIGHT
5587
27-Dec-2022
16:07
linh
pham



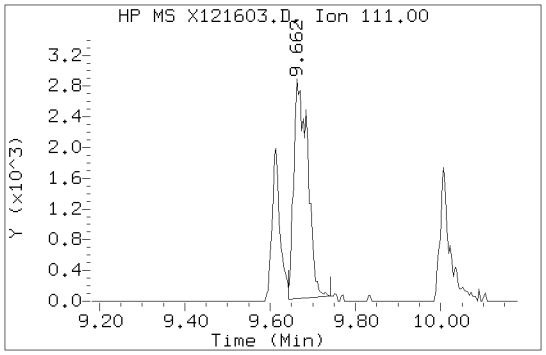
BEFORE

MASS
111
AREA
6571
HEIGHT
2862
27-Dec-2022
16:03
linh
pham



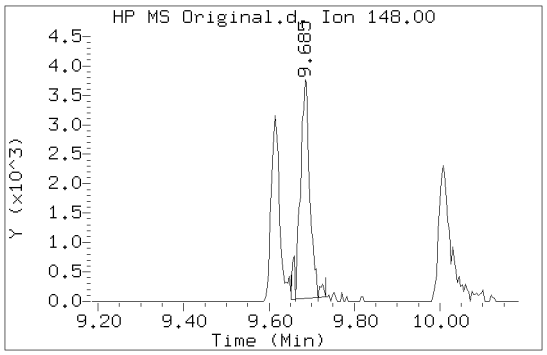
AFTER

MASS
111
AREA
6571
HEIGHT
2862
27-Dec-2022
16:07
linh
pham



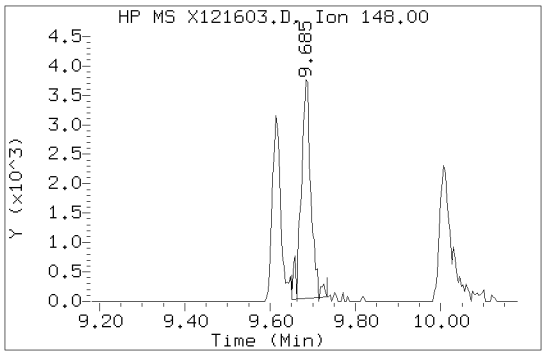
BEFORE

MASS
148
AREA
6083
HEIGHT
3714
27-Dec-2022
16:03
linh
pham



AFTER

MASS
148
AREA
6083
HEIGHT
3714
27-Dec-2022
16:07
linh
pham



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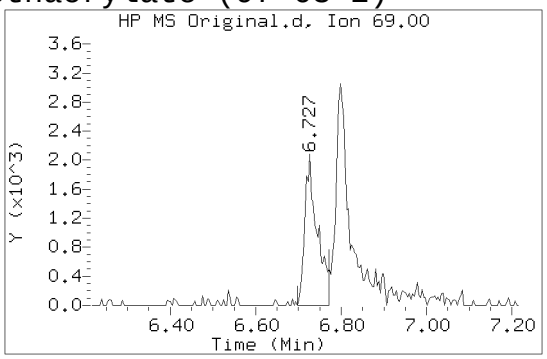
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

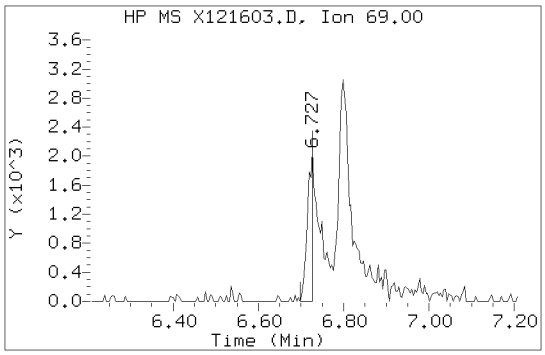
BEFORE

MASS
69
AREA
4283
HEIGHT
2083
27-Dec-2022
16:03
linh
pham



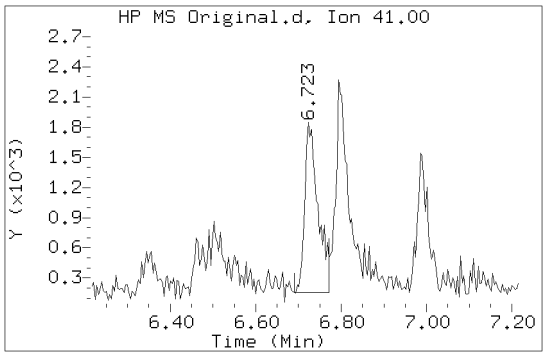
AFTER

MASS
69
AREA
1935
HEIGHT
2083
27-Dec-2022
16:07
linh
pham



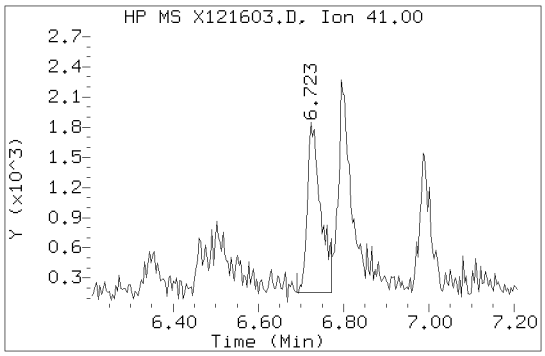
BEFORE

MASS
41
AREA
3701
HEIGHT
1688
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
3701
HEIGHT
1688
27-Dec-2022
16:07
linh
pham

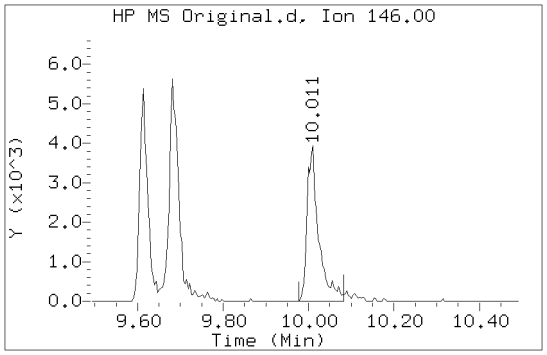


1,2-Dichlorobenzene (95-50-1)

Reason Code:

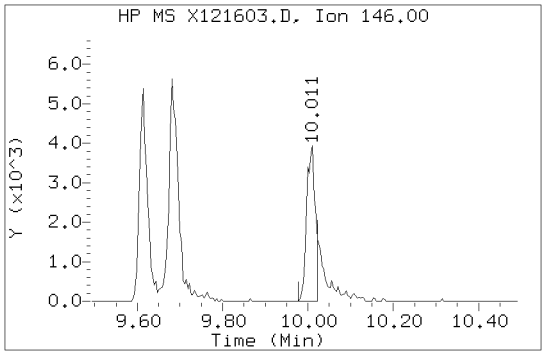
BEFORE

MASS
146
AREA
7400
HEIGHT
3934
27-Dec-2022
16:03
linh
pham



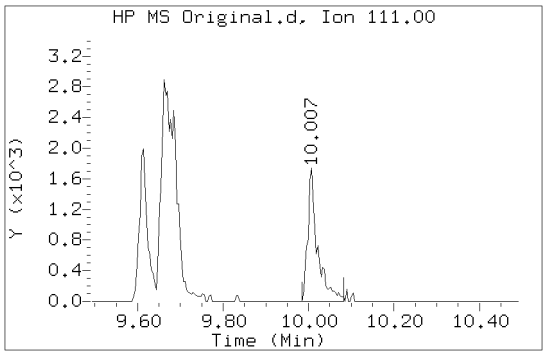
AFTER

MASS
146
AREA
5504
HEIGHT
3934
27-Dec-2022
16:07
linh
pham



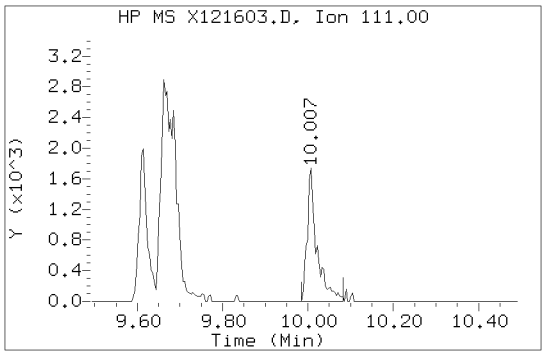
BEFORE

MASS
111
AREA
2768
HEIGHT
1741
27-Dec-2022
16:03
linh
pham



AFTER

MASS
111
AREA
2768
HEIGHT
1741
27-Dec-2022
16:07
linh
pham



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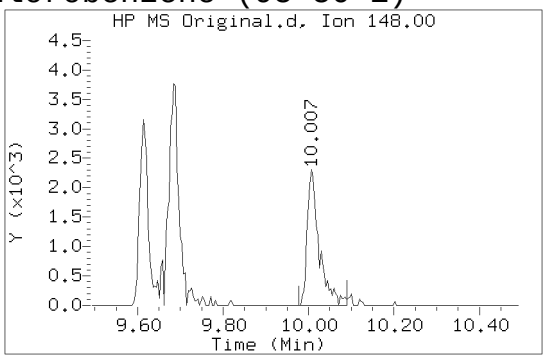
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichlorobenzene (95-50-1)

Reason Code:

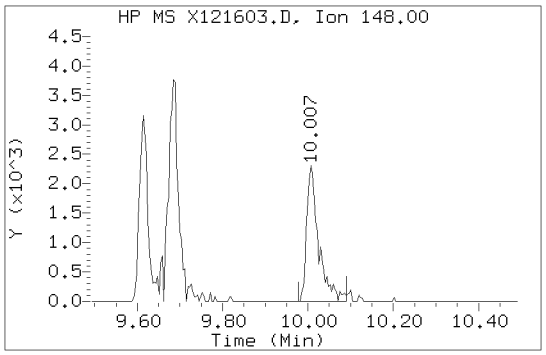
BEFORE

MASS
148
AREA
4515
HEIGHT
2306
27-Dec-2022
16:03
linh
pham



AFTER

MASS
148
AREA
4515
HEIGHT
2306
27-Dec-2022
16:07
linh
pham

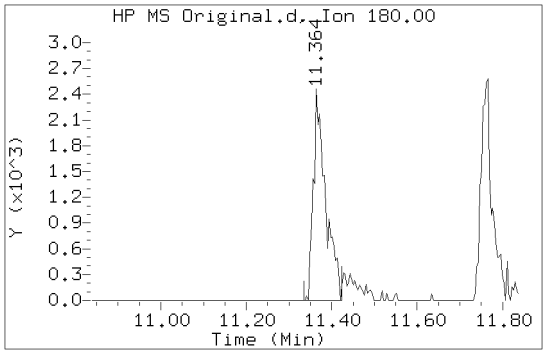


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

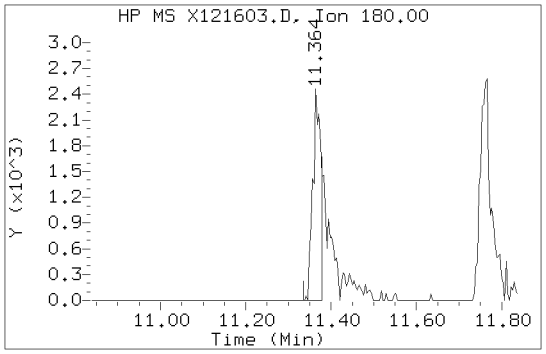
BEFORE

MASS
180
AREA
4912
HEIGHT
2459
27-Dec-2022
16:03
linh
pham



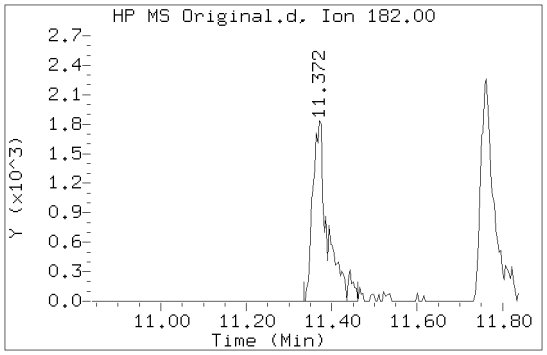
AFTER

MASS
180
AREA
3187
HEIGHT
2459
27-Dec-2022
16:07
linh
pham



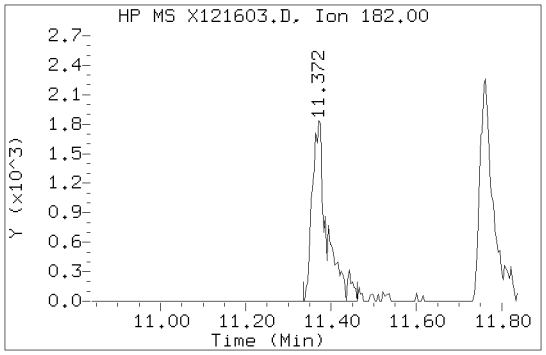
BEFORE

MASS
182
AREA
4514
HEIGHT
1835
27-Dec-2022
16:03
linh
pham



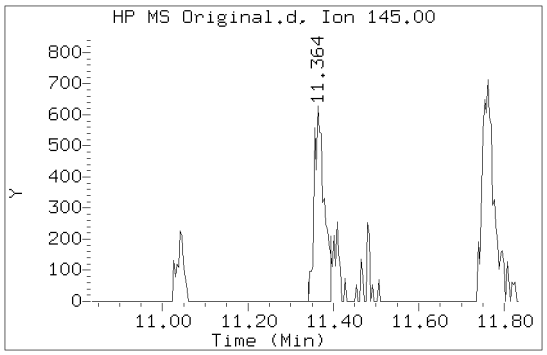
AFTER

MASS
182
AREA
4514
HEIGHT
1835
27-Dec-2022
16:07
linh
pham



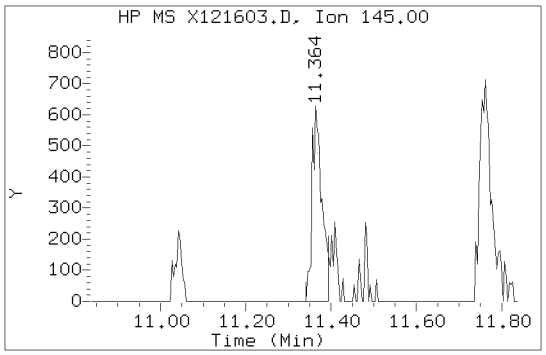
BEFORE

MASS
145
AREA
1003
HEIGHT
629
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
1003
HEIGHT
629
27-Dec-2022
16:07
linh
pham

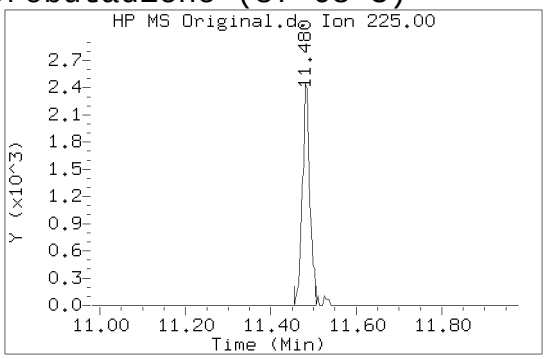


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

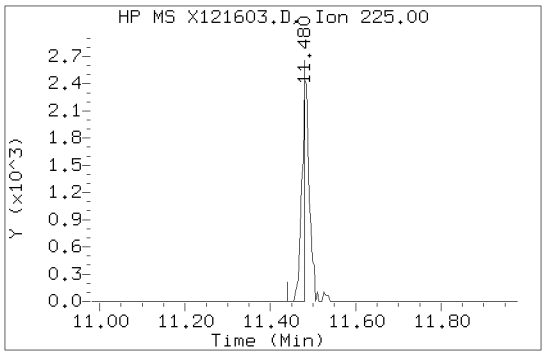
Hexachlorobutadiene (87-68-3)

Reason Code:

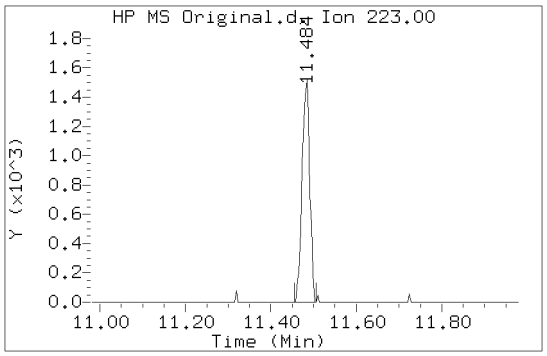
BEFORE
MASS
225
AREA
3038
HEIGHT
2444
27-Dec-2022
16:03
linh
pham



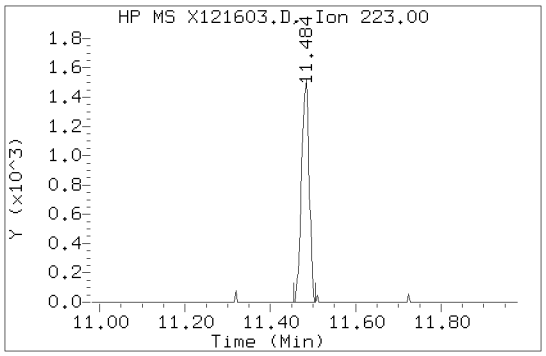
AFTER
MASS
225
AREA
1477
HEIGHT
2444
27-Dec-2022
16:07
linh
pham



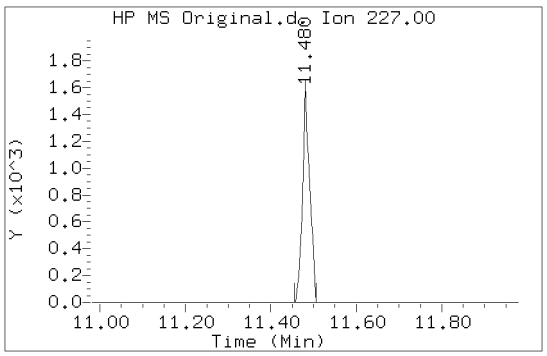
BEFORE
MASS
223
AREA
1952
HEIGHT
1518
27-Dec-2022
16:03
linh
pham



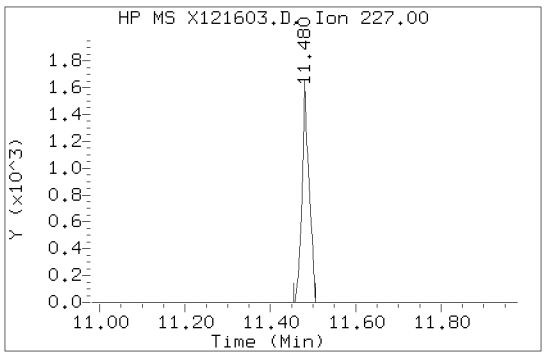
AFTER
MASS
223
AREA
1952
HEIGHT
1518
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
227
AREA
1938
HEIGHT
1652
27-Dec-2022
16:03
linh
pham



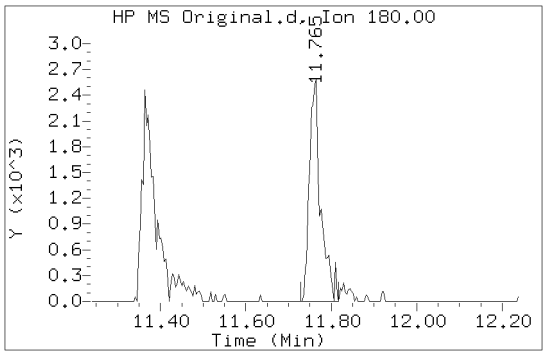
AFTER
MASS
227
AREA
1938
HEIGHT
1652
27-Dec-2022
16:07
linh
pham



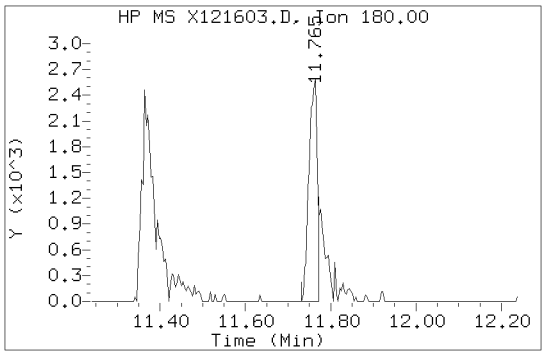
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
180
AREA
4741
HEIGHT
2580
27-Dec-2022
16:03
linh
pham



AFTER
MASS
180
AREA
3572
HEIGHT
2580
27-Dec-2022
16:07
linh
pham



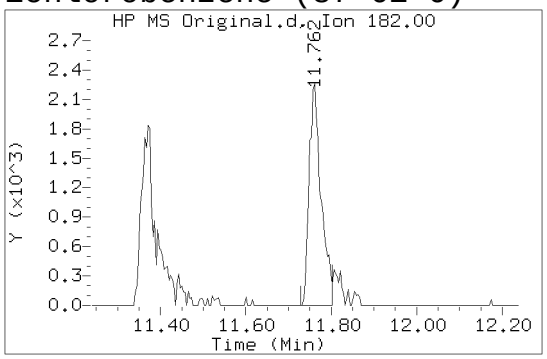
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

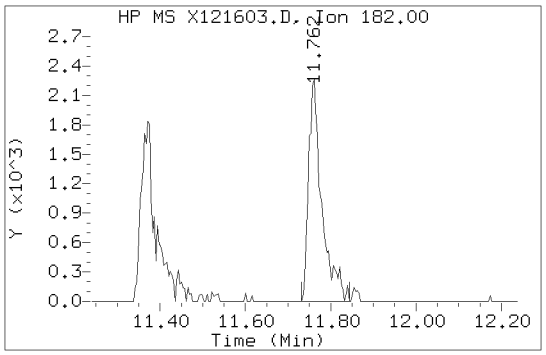
BEFORE

MASS
182
AREA
4404
HEIGHT
2261
27-Dec-2022
16:03
linh
pham



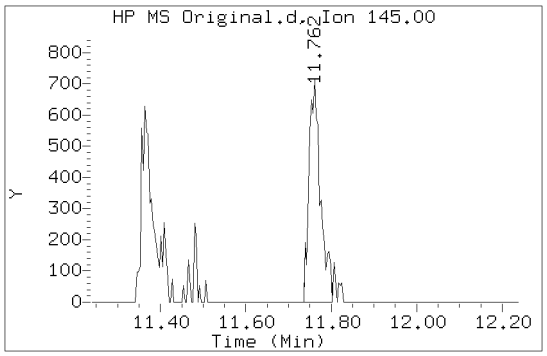
AFTER

MASS
182
AREA
4881
HEIGHT
2261
27-Dec-2022
16:07
linh
pham



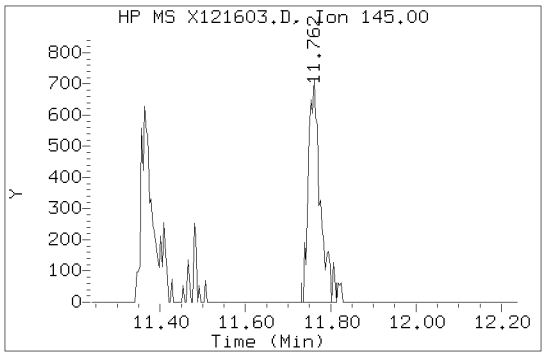
BEFORE

MASS
145
AREA
1338
HEIGHT
713
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
1384
HEIGHT
713
27-Dec-2022
16:07
linh
pham

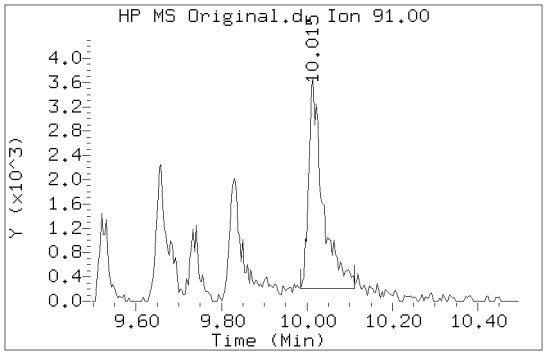


n-Butylbenzene (104-51-8)

Reason Code:

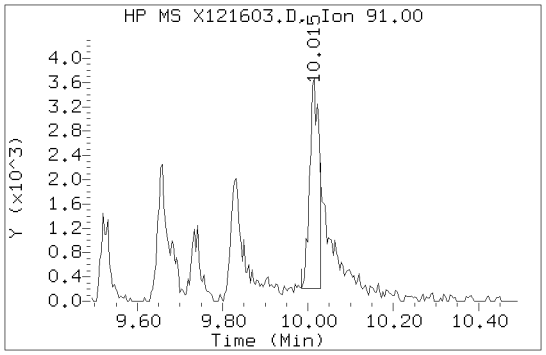
BEFORE

MASS
91
AREA
8005
HEIGHT
3451
27-Dec-2022
16:03
linh
pham



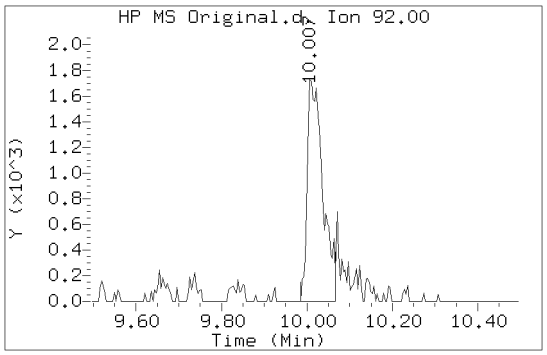
AFTER

MASS
91
AREA
5149
HEIGHT
3451
27-Dec-2022
16:07
linh
pham



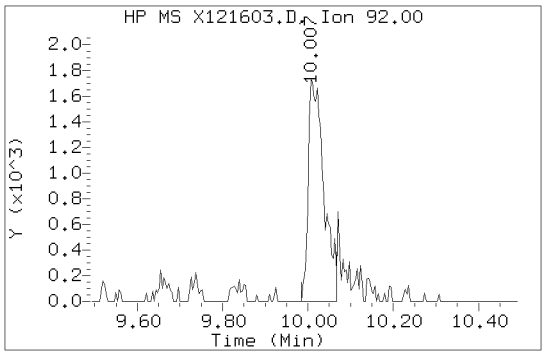
BEFORE

MASS
92
AREA
4404
HEIGHT
1727
27-Dec-2022
16:03
linh
pham



AFTER

MASS
92
AREA
4404
HEIGHT
1727
27-Dec-2022
16:07
linh
pham



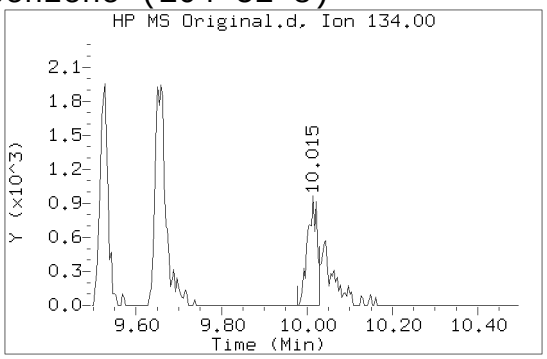
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butylbenzene (104-51-8)

Reason Code:

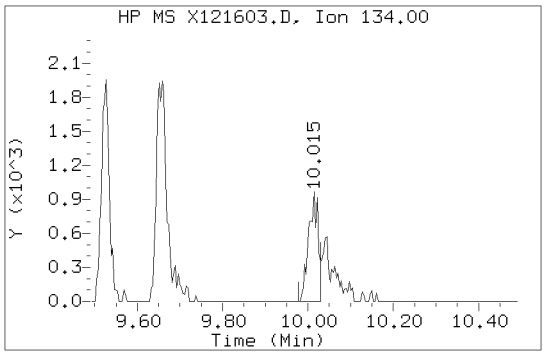
BEFORE

MASS
134
AREA
1502
HEIGHT
969
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
1502
HEIGHT
969
27-Dec-2022
16:07
linh
pham

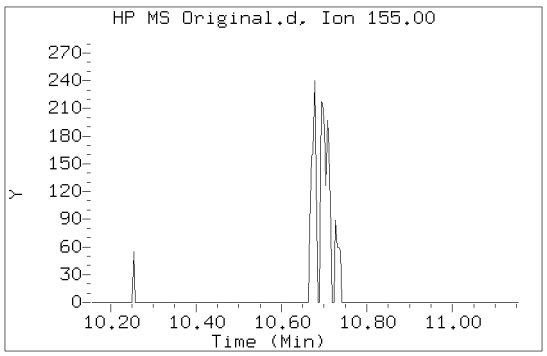


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

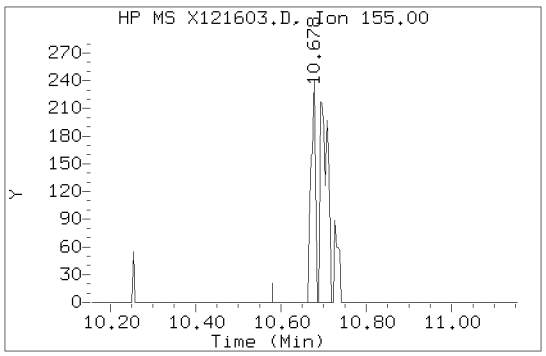
BEFORE

MASS
155
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



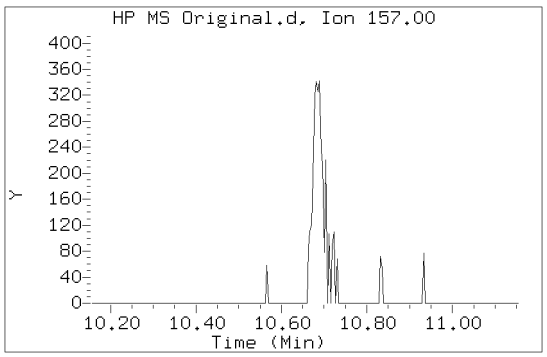
AFTER

MASS
155
AREA
441
HEIGHT
240
27-Dec-2022
16:07
linh
pham



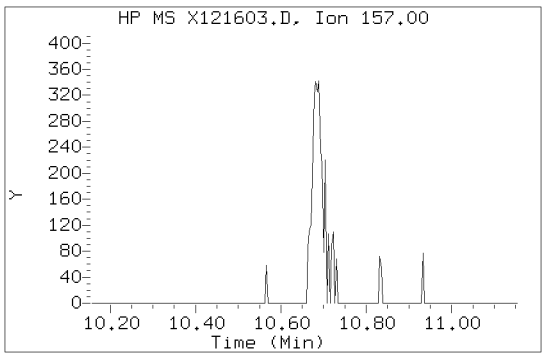
BEFORE

MASS
157
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



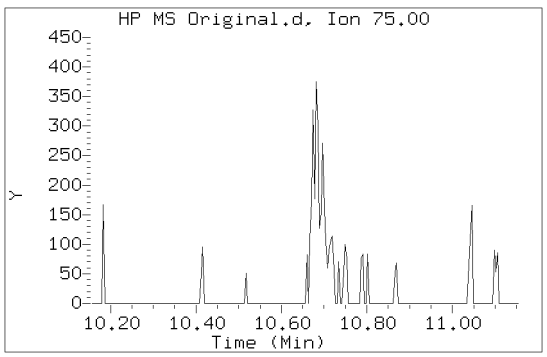
AFTER

MASS
157
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



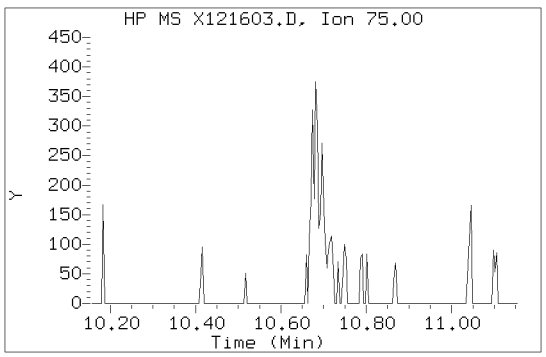
BEFORE

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

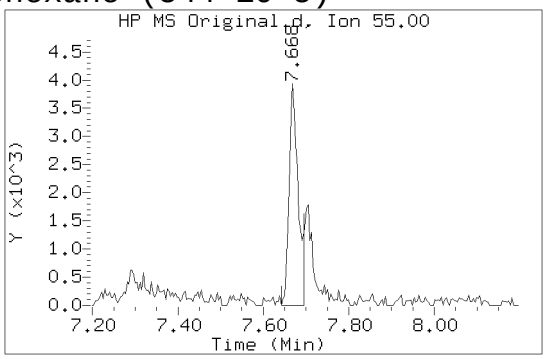


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

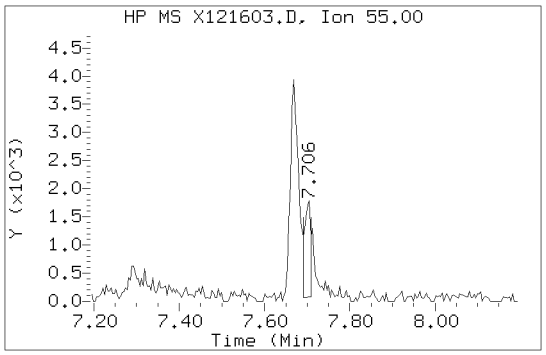
1-Chlorohexane (544-10-5)

Reason Code:

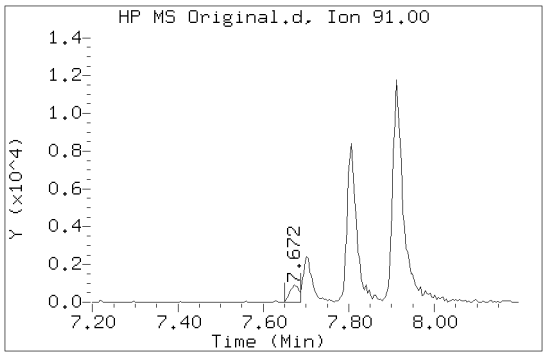
BEFORE
MASS
55
AREA
5785
HEIGHT
3936
27-Dec-2022
16:03
linh
pham



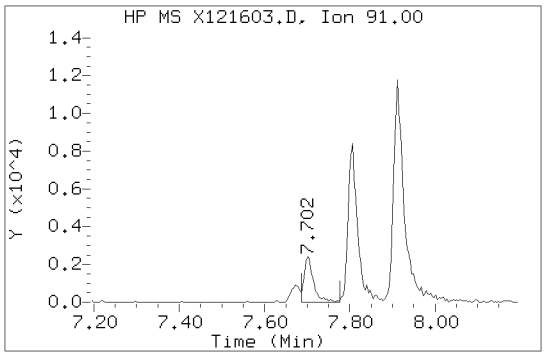
AFTER
MASS
55
AREA
1829
HEIGHT
1707
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
91
AREA
1355
HEIGHT
933
27-Dec-2022
16:03
linh
pham



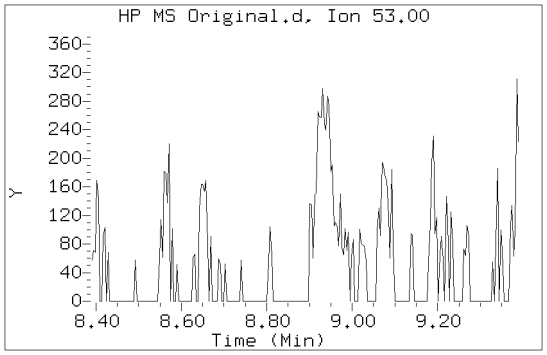
AFTER
MASS
91
AREA
3802
HEIGHT
2430
27-Dec-2022
16:07
linh
pham



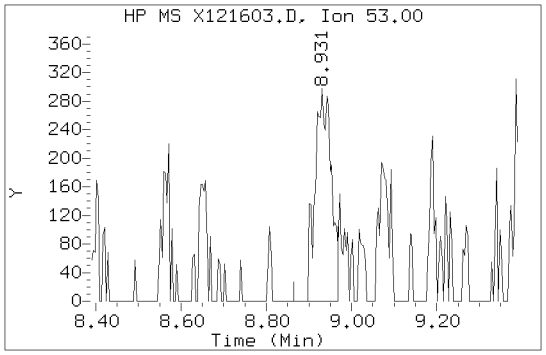
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

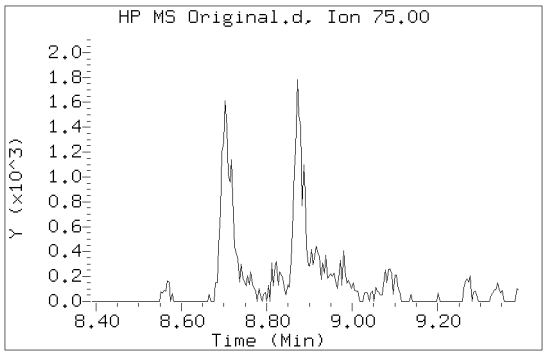
BEFORE
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



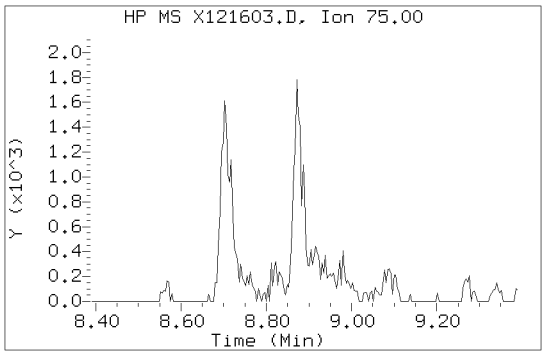
AFTER
MASS
53
AREA
792
HEIGHT
298
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

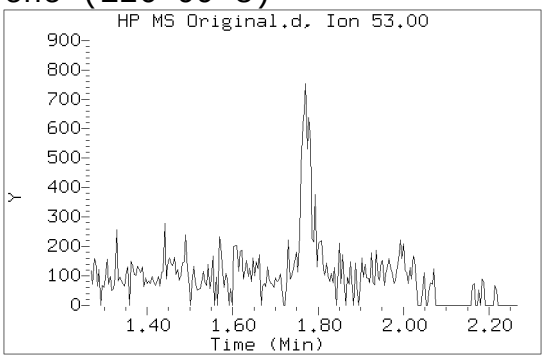


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

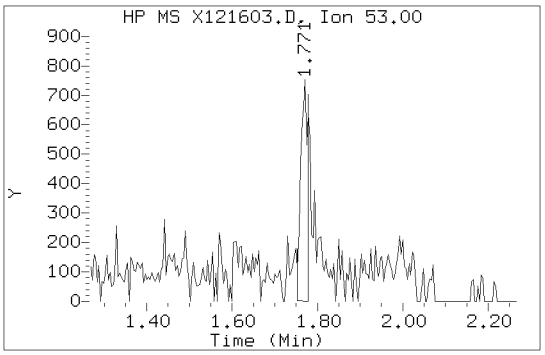
Chloroprene (126-99-8)

Reason Code:

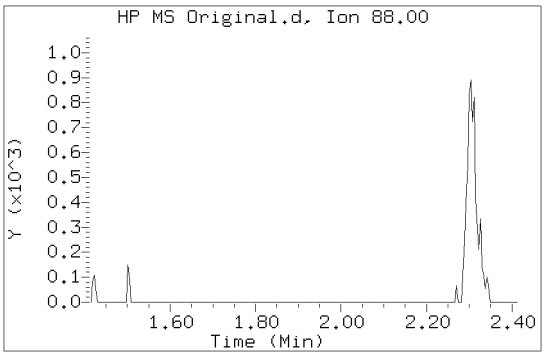
BEFORE
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



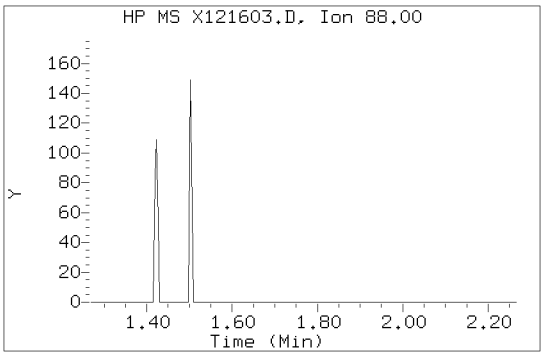
AFTER
MASS
53
AREA
900
HEIGHT
751
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



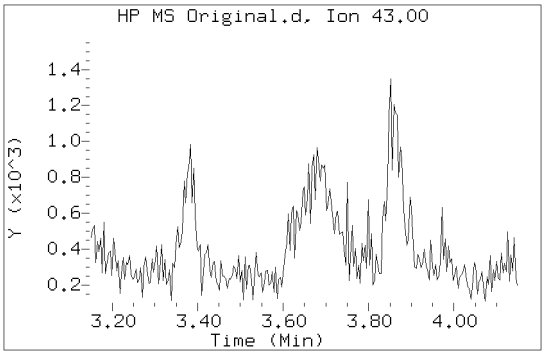
AFTER
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



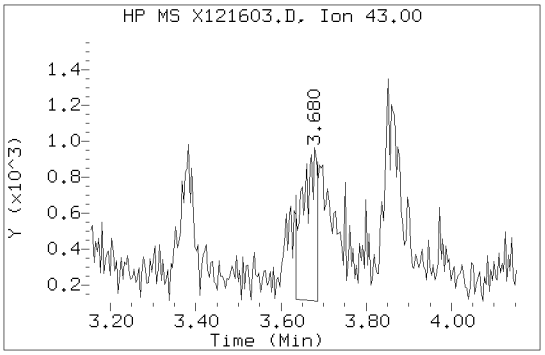
Ethyl Acetate (141-78-6)

Reason Code:

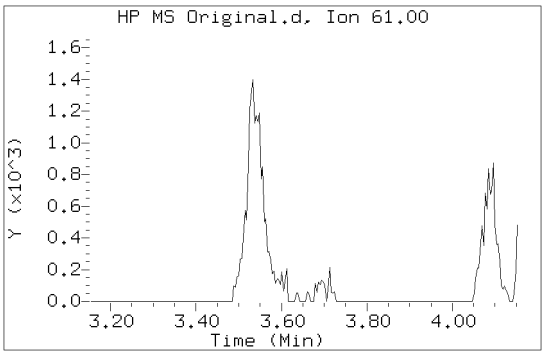
BEFORE
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



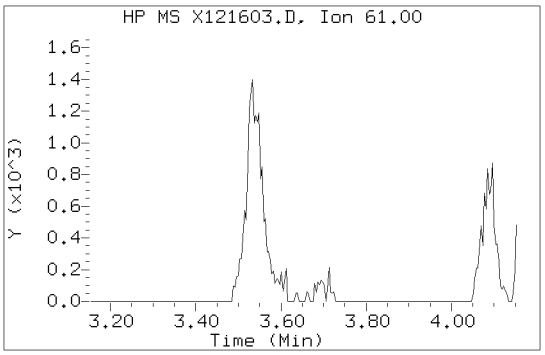
AFTER
MASS
43
AREA
2065
HEIGHT
853
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

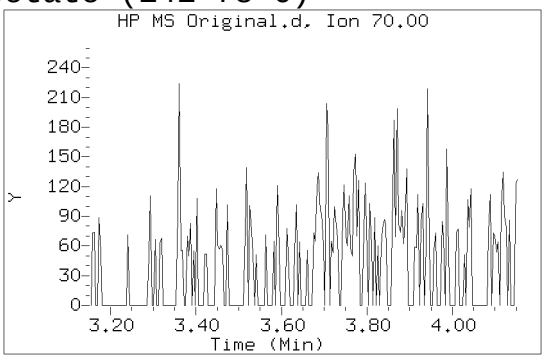


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acetate (141-78-6)

BEFORE

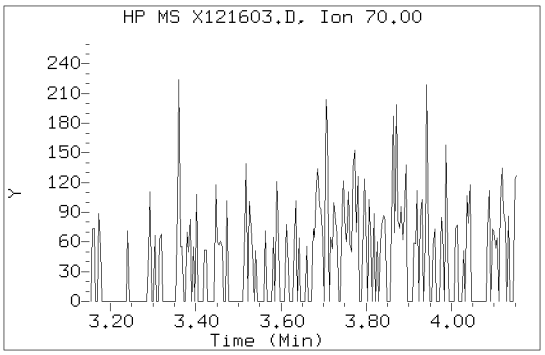
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

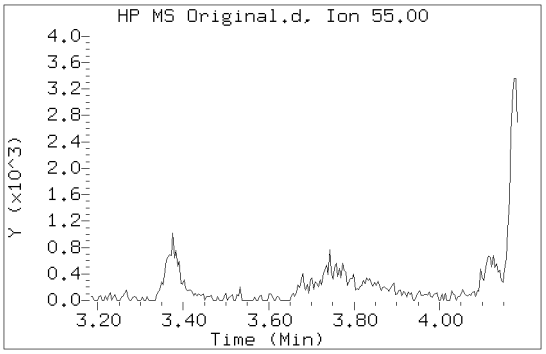
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Methyl Acrylate (96-33-3)

BEFORE

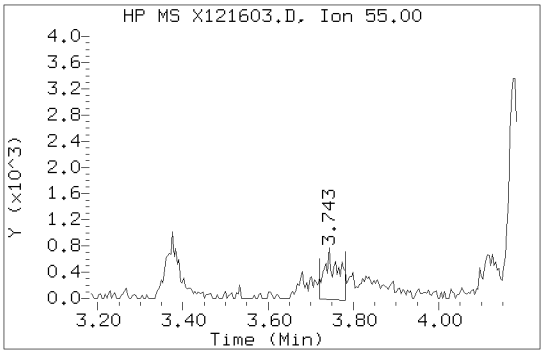
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

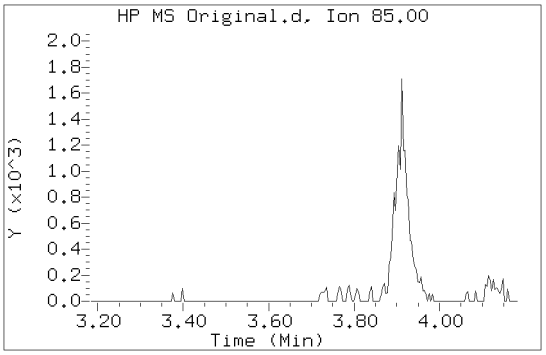
AFTER

MASS
55
AREA
1765
HEIGHT
787
27-Dec-2022
16:07
linh
pham



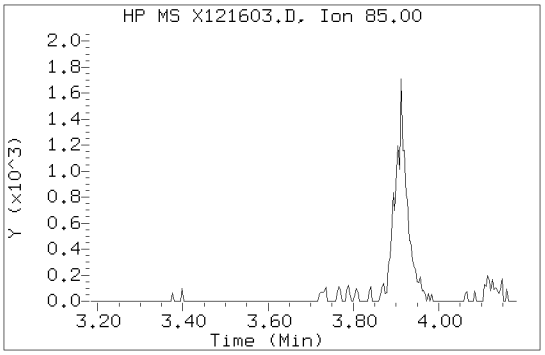
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

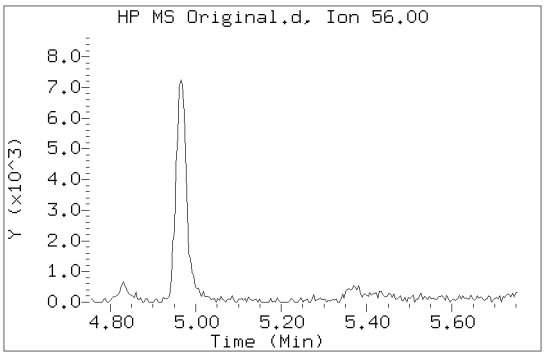
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



n-Butanol (71-36-3)

BEFORE

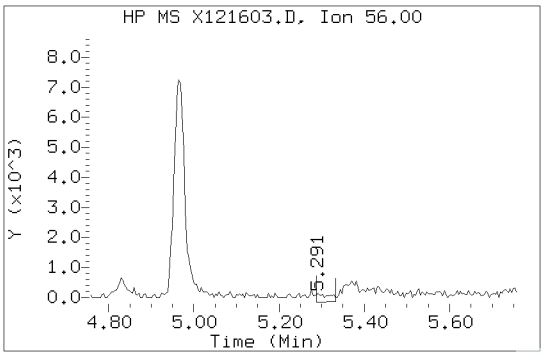
MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
56
AREA
622
HEIGHT
300
27-Dec-2022
16:07
linh
pham



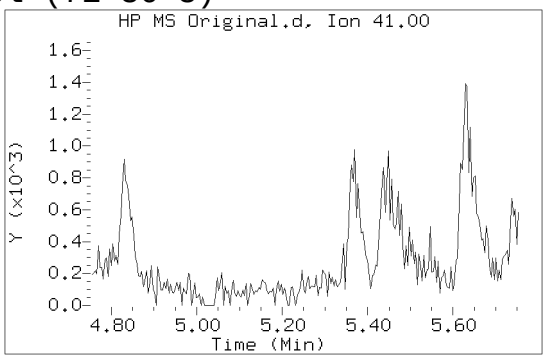
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butanol (71-36-3)

Reason Code:

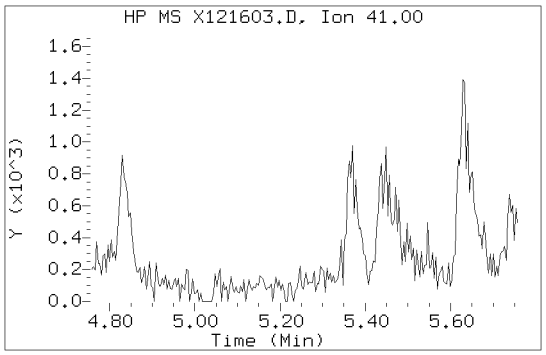
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

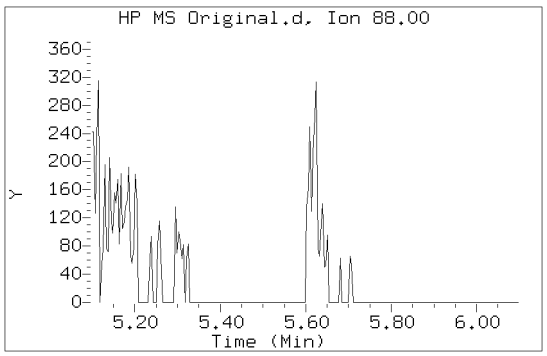


1,4-Dioxane ()

Reason Code:

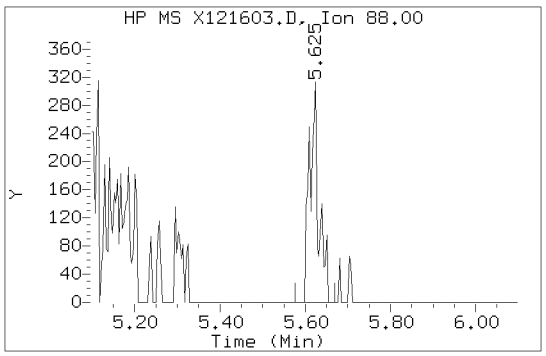
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



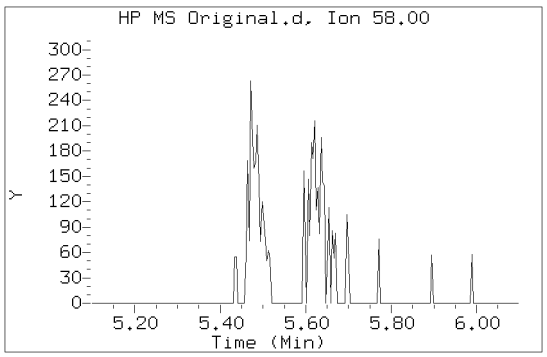
AFTER

MASS
88
AREA
462
HEIGHT
313
27-Dec-2022
16:07
linh
pham



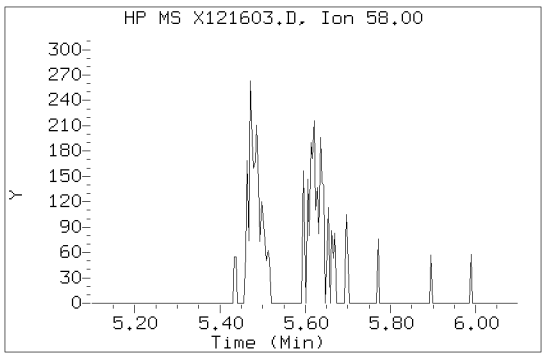
BEFORE

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

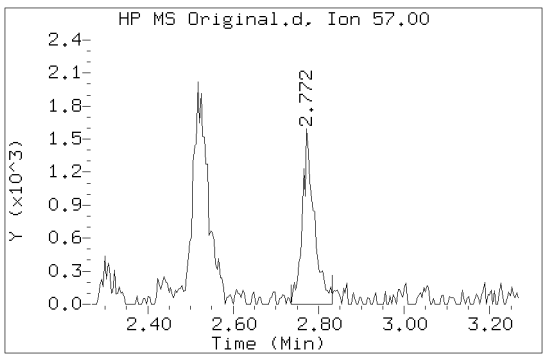


n-Hexane (110-54-3)

Reason Code:

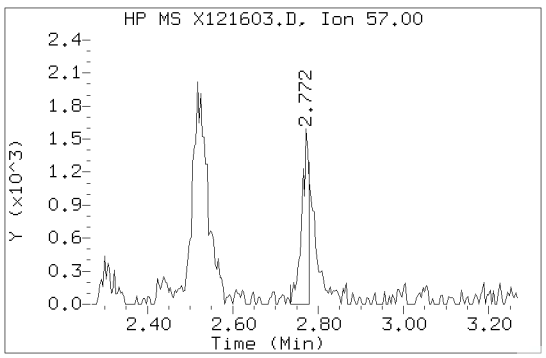
BEFORE

MASS
57
AREA
3089
HEIGHT
1591
27-Dec-2022
16:03
linh
pham



AFTER

MASS
57
AREA
1909
HEIGHT
1591
27-Dec-2022
16:07
linh
pham

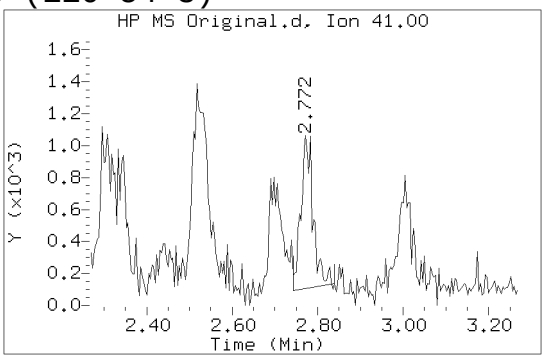


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

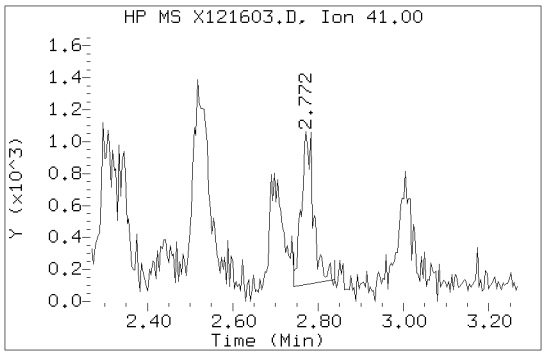
n-Hexane (110-54-3)

Reason Code:

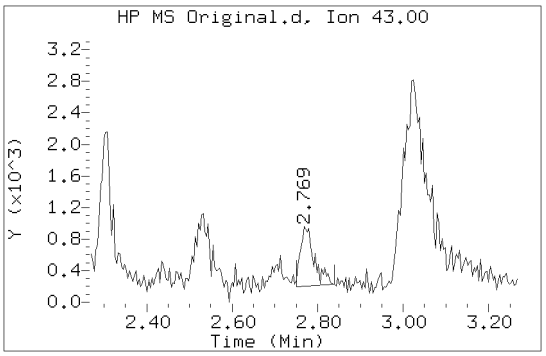
BEFORE
MASS
41
AREA
1918
HEIGHT
958
27-Dec-2022
16:03
linh
pham



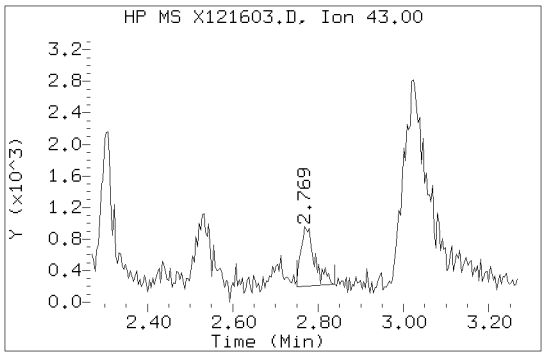
AFTER
MASS
41
AREA
1918
HEIGHT
958
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
43
AREA
1726
HEIGHT
759
27-Dec-2022
16:03
linh
pham



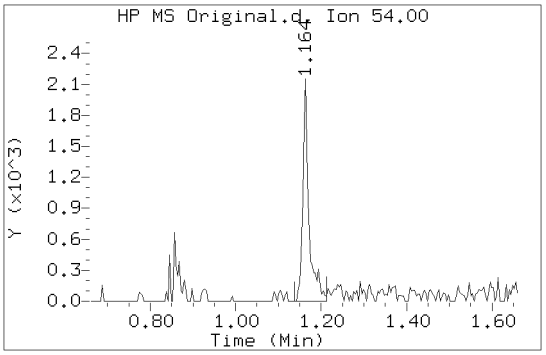
AFTER
MASS
43
AREA
1726
HEIGHT
759
27-Dec-2022
16:07
linh
pham



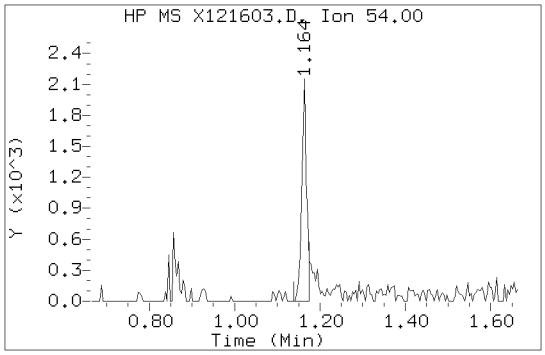
1,3-Butadiene (106-99-0)

Reason Code:

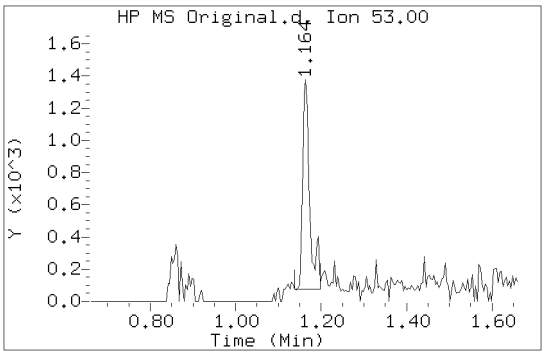
BEFORE
MASS
54
AREA
2206
HEIGHT
2153
27-Dec-2022
16:03
linh
pham



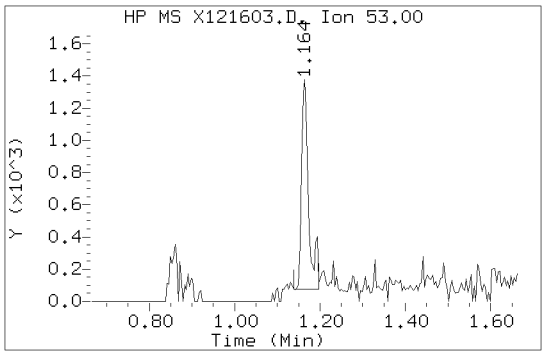
AFTER
MASS
54
AREA
1793
HEIGHT
2153
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
53
AREA
1535
HEIGHT
1301
27-Dec-2022
16:03
linh
pham



AFTER
MASS
53
AREA
1535
HEIGHT
1301
27-Dec-2022
16:07
linh
pham



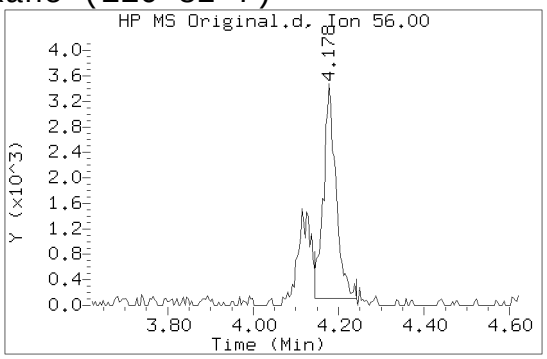
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexane (110-82-7)

Reason Code:

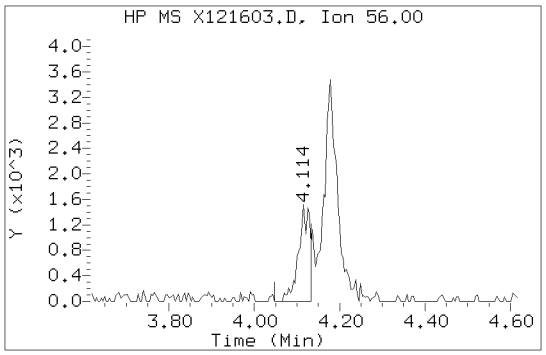
BEFORE

MASS
56
AREA
6884
HEIGHT
3363
27-Dec-2022
16:03
linh
pham



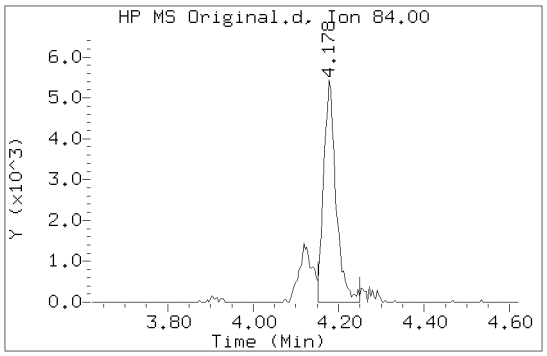
AFTER

MASS
56
AREA
2803
HEIGHT
1514
27-Dec-2022
16:07
linh
pham



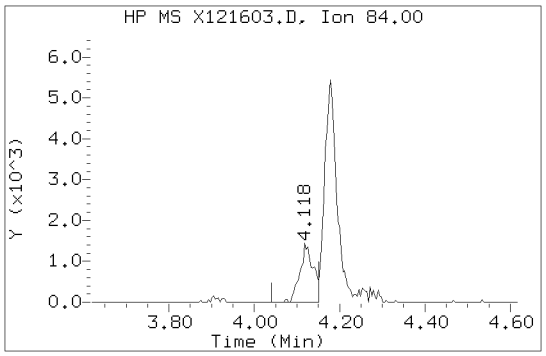
BEFORE

MASS
84
AREA
10951
HEIGHT
5440
27-Dec-2022
16:03
linh
pham



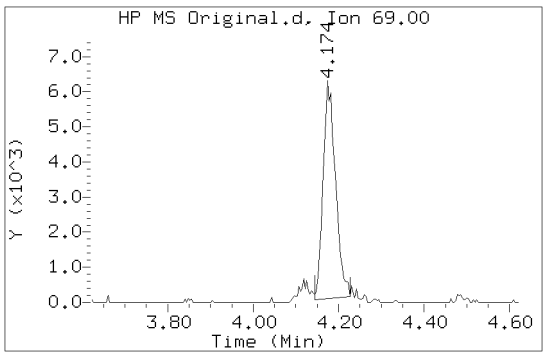
AFTER

MASS
84
AREA
3197
HEIGHT
1443
27-Dec-2022
16:07
linh
pham



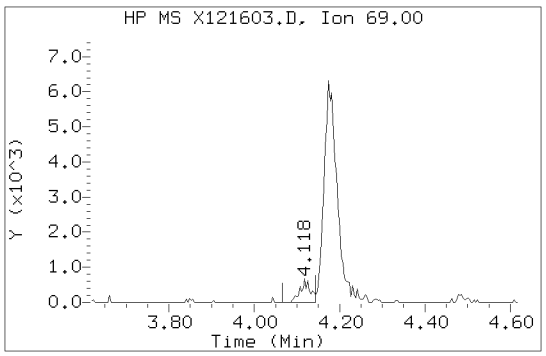
BEFORE

MASS
69
AREA
12449
HEIGHT
6206
27-Dec-2022
16:03
linh
pham



AFTER

MASS
69
AREA
1108
HEIGHT
681
27-Dec-2022
16:07
linh
pham

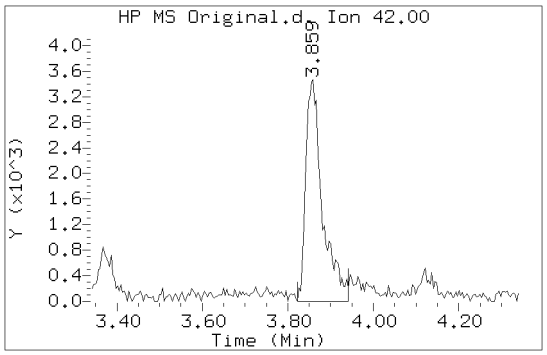


Tetrahydrofuran (109-99-9)

Reason Code:

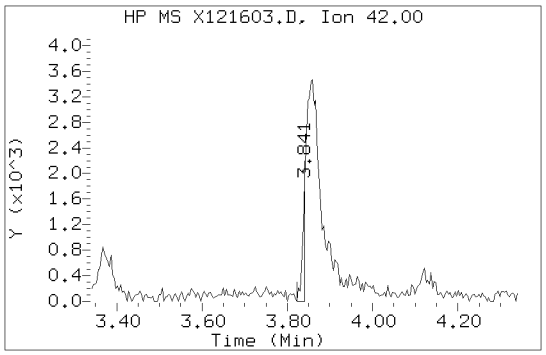
BEFORE

MASS
42
AREA
9468
HEIGHT
3467
27-Dec-2022
16:03
linh
pham



AFTER

MASS
42
AREA
900
HEIGHT
1891
27-Dec-2022
16:07
linh
pham

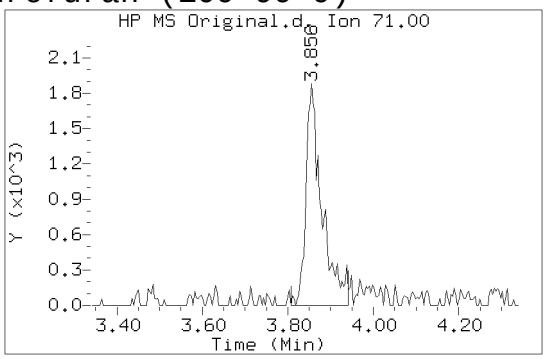


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

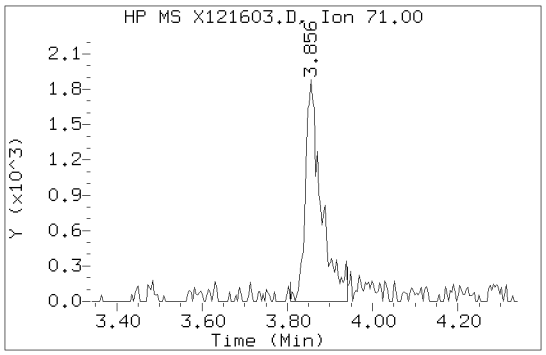
Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE
MASS
71
AREA
4885
HEIGHT
1881
27-Dec-2022
16:03
linh
pham



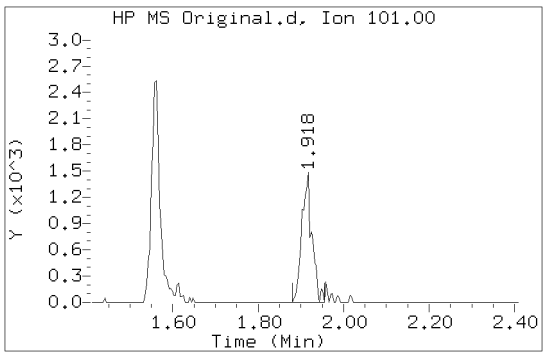
AFTER
MASS
71
AREA
4885
HEIGHT
1881
27-Dec-2022
16:07
linh
pham



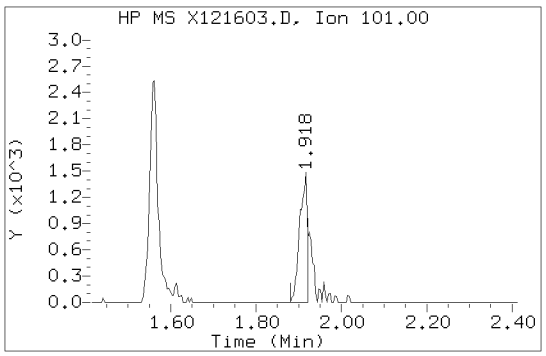
Freon TF (76-13-1)

Reason Code:

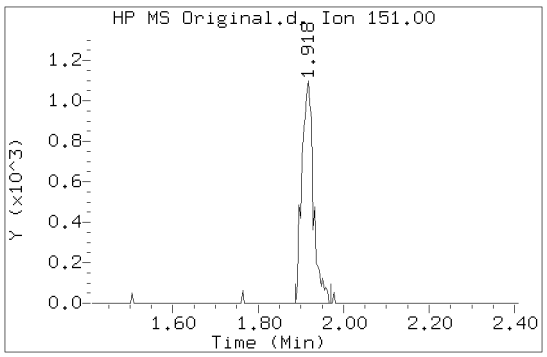
BEFORE
MASS
101
AREA
2478
HEIGHT
1484
27-Dec-2022
16:03
linh
pham



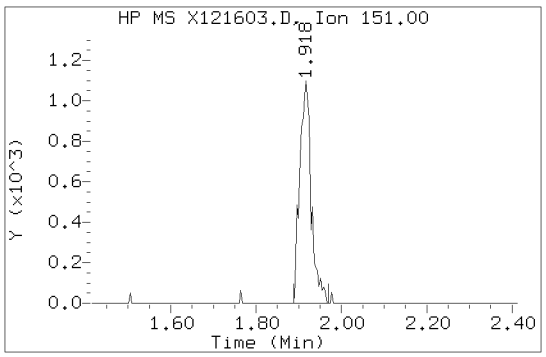
AFTER
MASS
101
AREA
1851
HEIGHT
1484
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
151
AREA
2095
HEIGHT
1098
27-Dec-2022
16:03
linh
pham



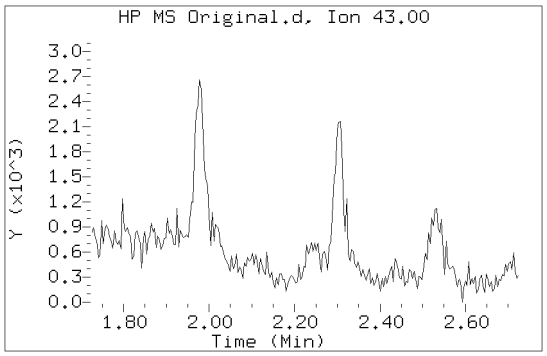
AFTER
MASS
151
AREA
2095
HEIGHT
1098
27-Dec-2022
16:07
linh
pham



Methyl Acetate (79-20-9)

Reason Code:

BEFORE
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
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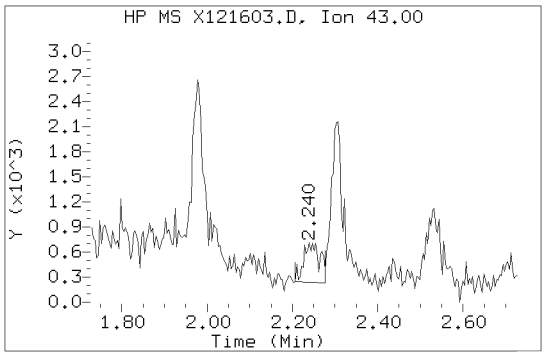
43
AREA
1269
HEIGHT
477
27-Dec-2022
16:07
linh
pham



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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Acetate (79-20-9)

BEFORE

MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:03
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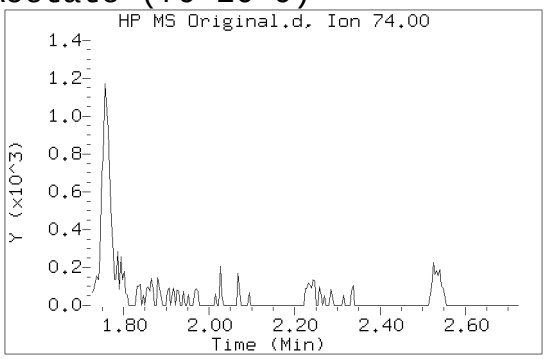
pham



Reason Code:

AFTER

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74
AREA
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HEIGHT
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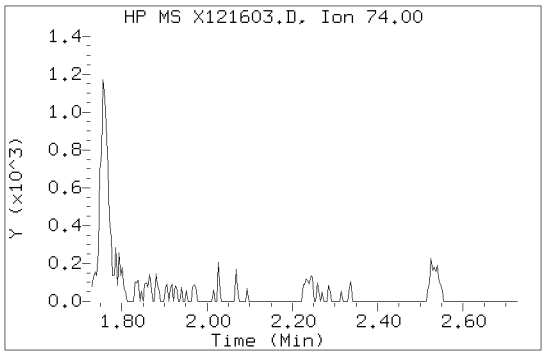
16:07
linh
pham



Methylcyclohexane (108-87-2)

BEFORE

MASS
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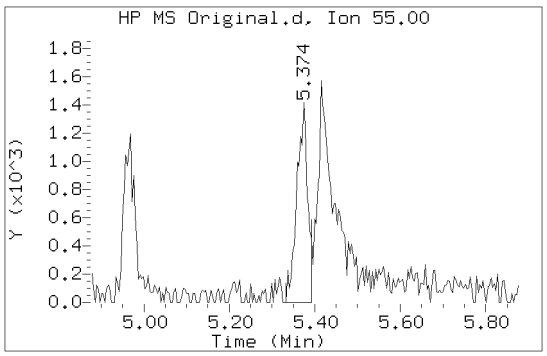
AREA
2505
HEIGHT
1416
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

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55
AREA
4781
HEIGHT
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27-Dec-2022
16:07
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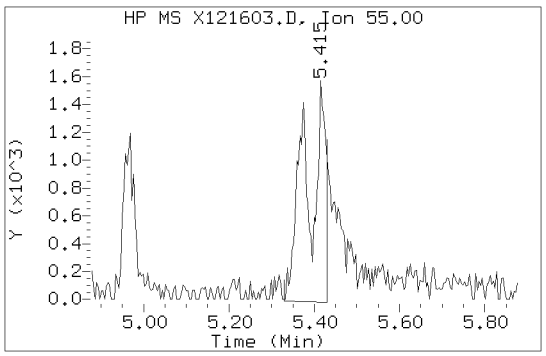
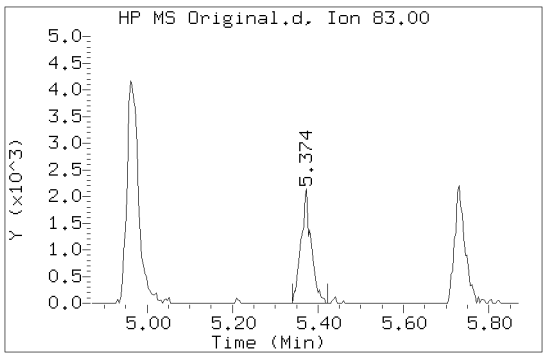


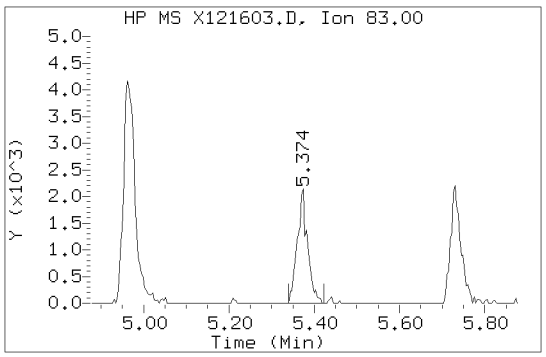
BEFORE

MASS
83
AREA
3627
HEIGHT
2141
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
3627
HEIGHT
2141
27-Dec-2022
16:07
linh
pham



Butyl acrylate (141-32-2)

BEFORE

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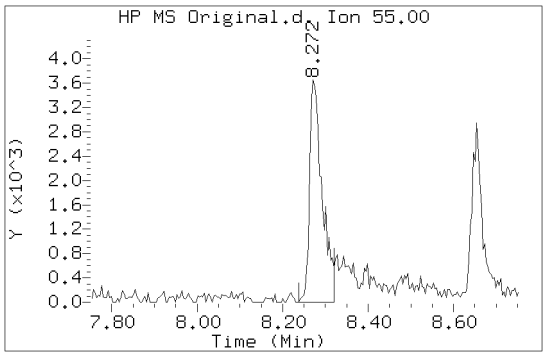
55
AREA
7480
HEIGHT
3653
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

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55
AREA
4718
HEIGHT
3653
27-Dec-2022
16:07
linh
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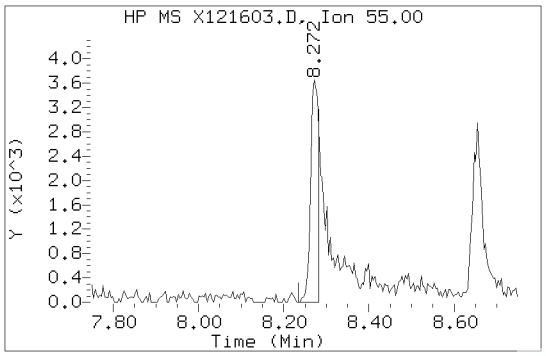

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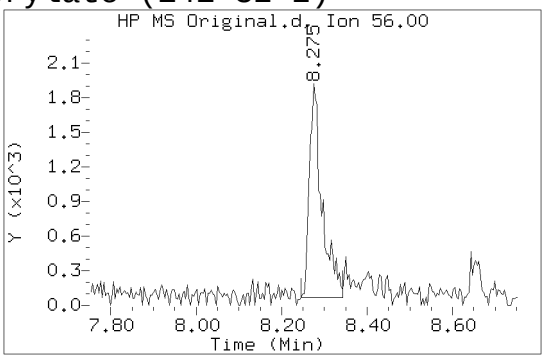
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl acrylate (141-32-2)

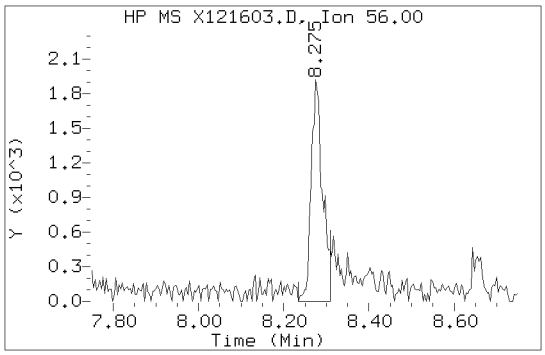
BEFORE

MASS
56
AREA
3795
HEIGHT
1858
27-Dec-2022
16:03
linh
pham



AFTER

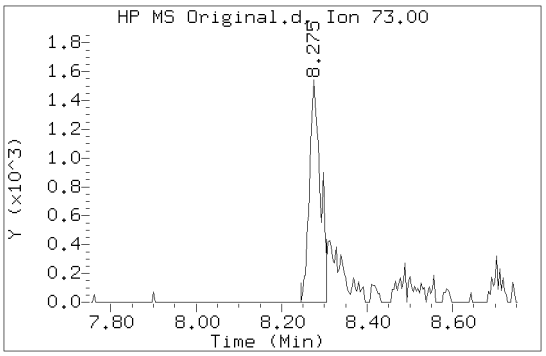
MASS
56
AREA
3566
HEIGHT
1923
27-Dec-2022
16:07
linh
pham



Reason Code:

BEFORE

MASS
73
AREA
2742
HEIGHT
1542
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
3276
HEIGHT
1542
27-Dec-2022
16:07
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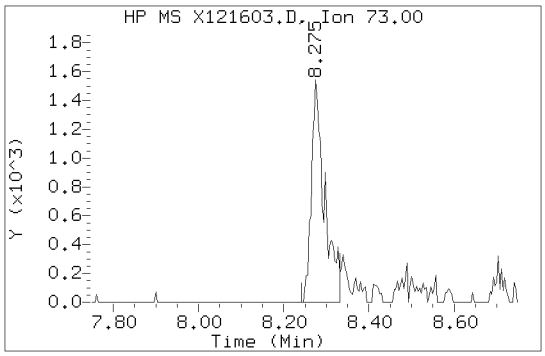
pham

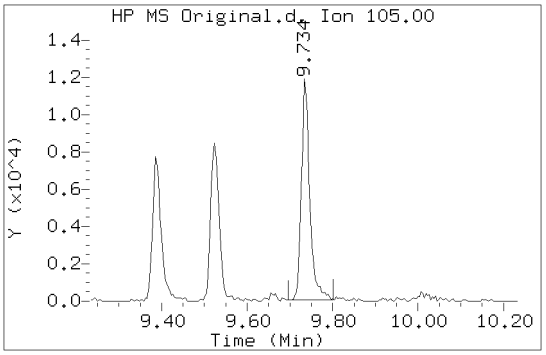


Reason Code:

1,2,3-Trimethylbenzene (526-73-8)

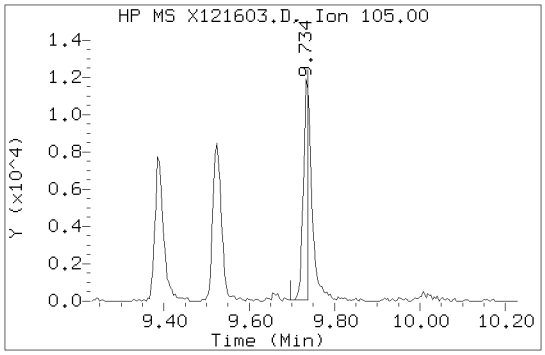
BEFORE

MASS
105
AREA
16642
HEIGHT
11860
27-Dec-2022
16:03
linh
pham



AFTER

MASS
105
AREA
9626
HEIGHT
11860
27-Dec-2022
16:07
linh
pham

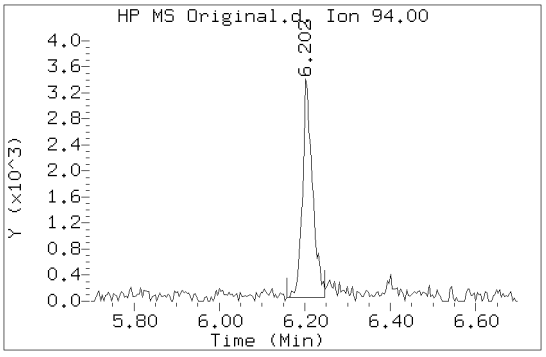


Reason Code:

Dimethyl Disulfide (624-92-0)

BEFORE

MASS
94
AREA
5523
HEIGHT
3352
27-Dec-2022
16:03
linh
pham



AFTER

MASS
94
AREA
5153
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3352
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16:07
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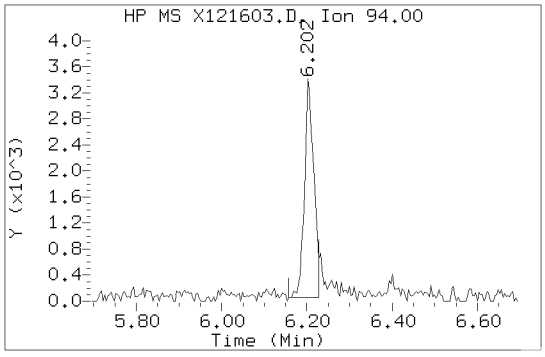
pham



Reason Code:

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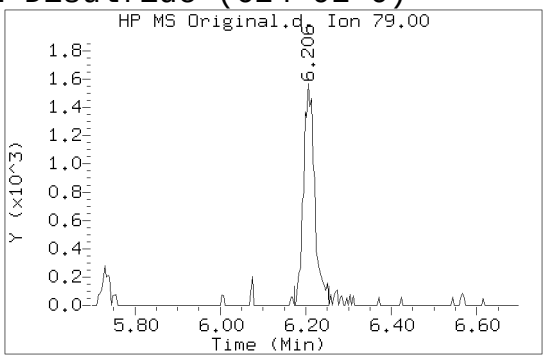
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

MASS
79
AREA
2905
HEIGHT
1568
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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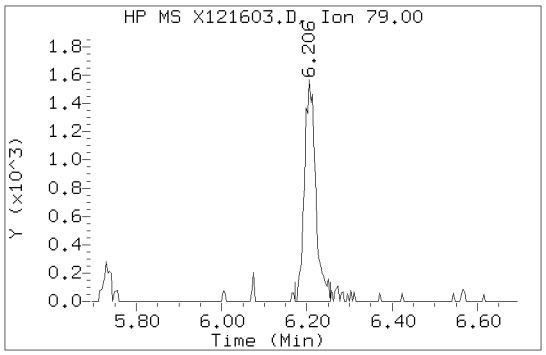
2905
HEIGHT
1568
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
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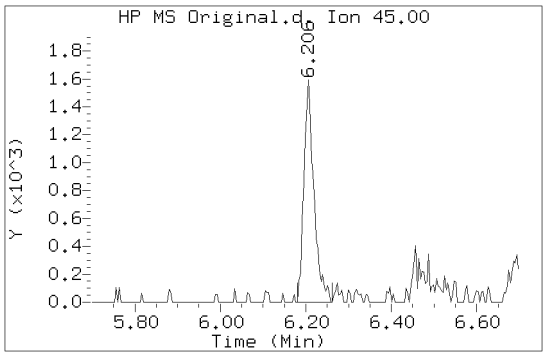
AREA
2647
HEIGHT
1593
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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1593
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16:07
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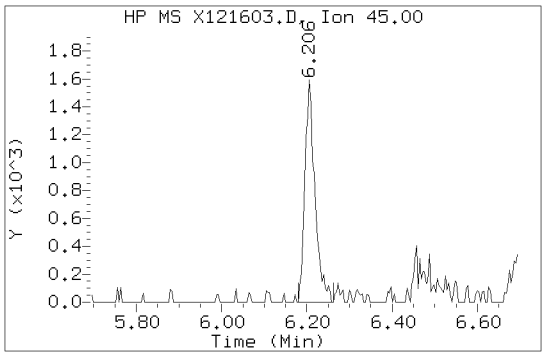

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

MASS
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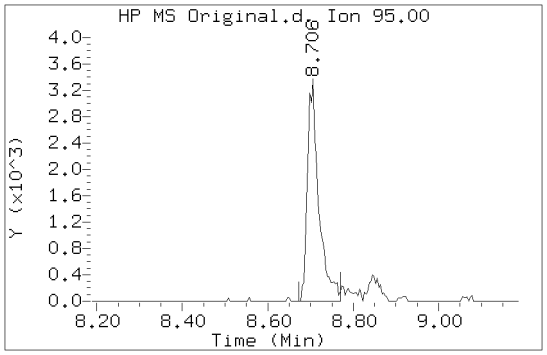
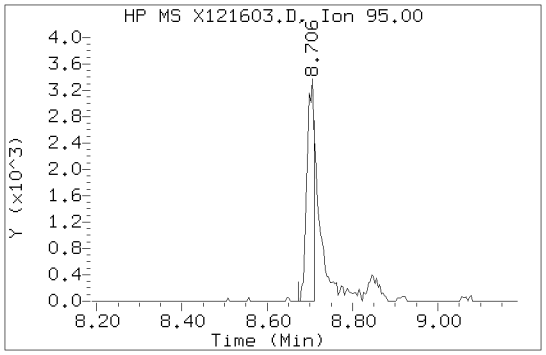
AREA
6240
HEIGHT
3372
27-Dec-2022
16:03
linh
pham



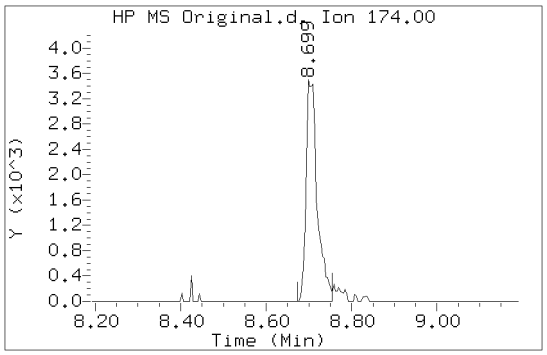
AFTER

MASS
95
AREA
3870
HEIGHT
3372
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
174
AREA
6370
HEIGHT
3502
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
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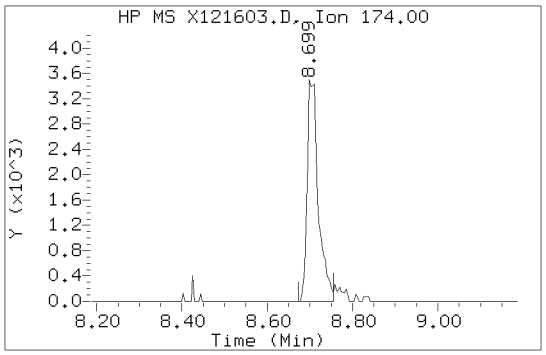
HEIGHT
3502
27-Dec-2022
16:07
linh
pham



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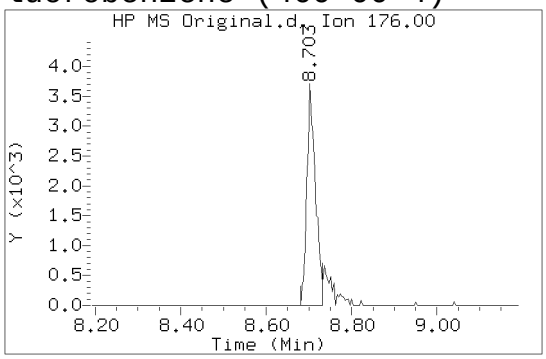
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

MASS
176
AREA
5204
HEIGHT
3711
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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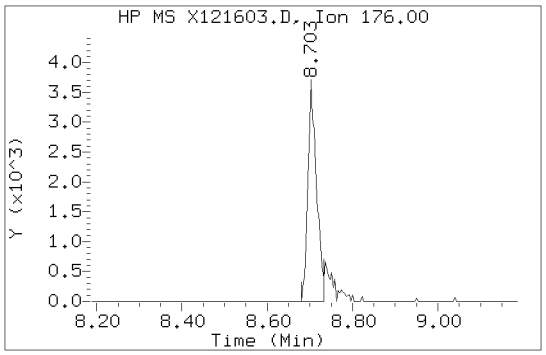
AREA
5204
HEIGHT
3711
27-Dec-2022
16:07
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
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Inj Date : 16-DEC-2022 12:41
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 12:20 Cal File: X121603.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	450308	50.0000	
135 1,4-Dioxane	88	5.610	5.610	(1.343)	820	20.0000	19.92(M)
140 1,3-Butadiene	54	1.160	1.160	(0.278)	3432	1.00000	1.11
25 Methacrylonitrile	41	3.852	3.852	(0.922)	3285	1.00000	1.03(M)
12 Isobutyl Alcohol	43	4.695	4.695	(1.124)	9436	20.0000	18.62(M)
13 Acetonitrile	39	2.198	2.198	(0.526)	4183	10.0000	10.20
14 Allyl Chloride	41	2.202	2.202	(0.527)	8574	1.00000	1.09
4 Propionitrile	54	3.687	3.687	(0.882)	4742	10.0000	10.32(M)
136 n-Hexane	57	2.776	2.776	(0.664)	2343	1.00000	0.72
72 trans-1,4-Dichloro-2-butene	53	8.920	8.920	(1.163)	1196	1.00000	0.85(M)
194 Acetaldehyde	44	1.212	1.212	(0.290)	3384	4.00000	(M)
23 Chloroprene	53	1.767	1.767	(0.423)	1686	1.00000	1.10(M)
145 alpha-Methylstyrene	118	9.272	9.272	(0.960)	6032	1.00000	0.77
200 Dimethyl Disulfide	94	6.206	6.206	(0.809)	8295	1.00000	0.94
139 Diethyl ether	59	1.760	1.760	(0.421)	2983	1.00000	0.99
130 Ethyl Acetate	43	3.675	3.675	(0.880)	3144	1.00000	0.89(M)
40 Methyl Methacrylate	41	5.628	5.628	(1.347)	3145	1.00000	1.02
49 Ethyl Methacrylate	69	6.727	6.727	(1.355)	3303	1.00000	1.02(M)
132 n-Butanol	56	5.239	5.239	(1.254)	1171	20.0000	60.69(M)
142 Tetrahydrofuran	42	3.844	3.844	(0.920)	1361	2.00000	(M)

150	Allyl alcohol	57	2.776	2.776 (0.664)	2343	20.0000	13.39
166	1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	18347	1.00000	1.08

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D Page 2
Report Date: 27-Dec-2022 16:07

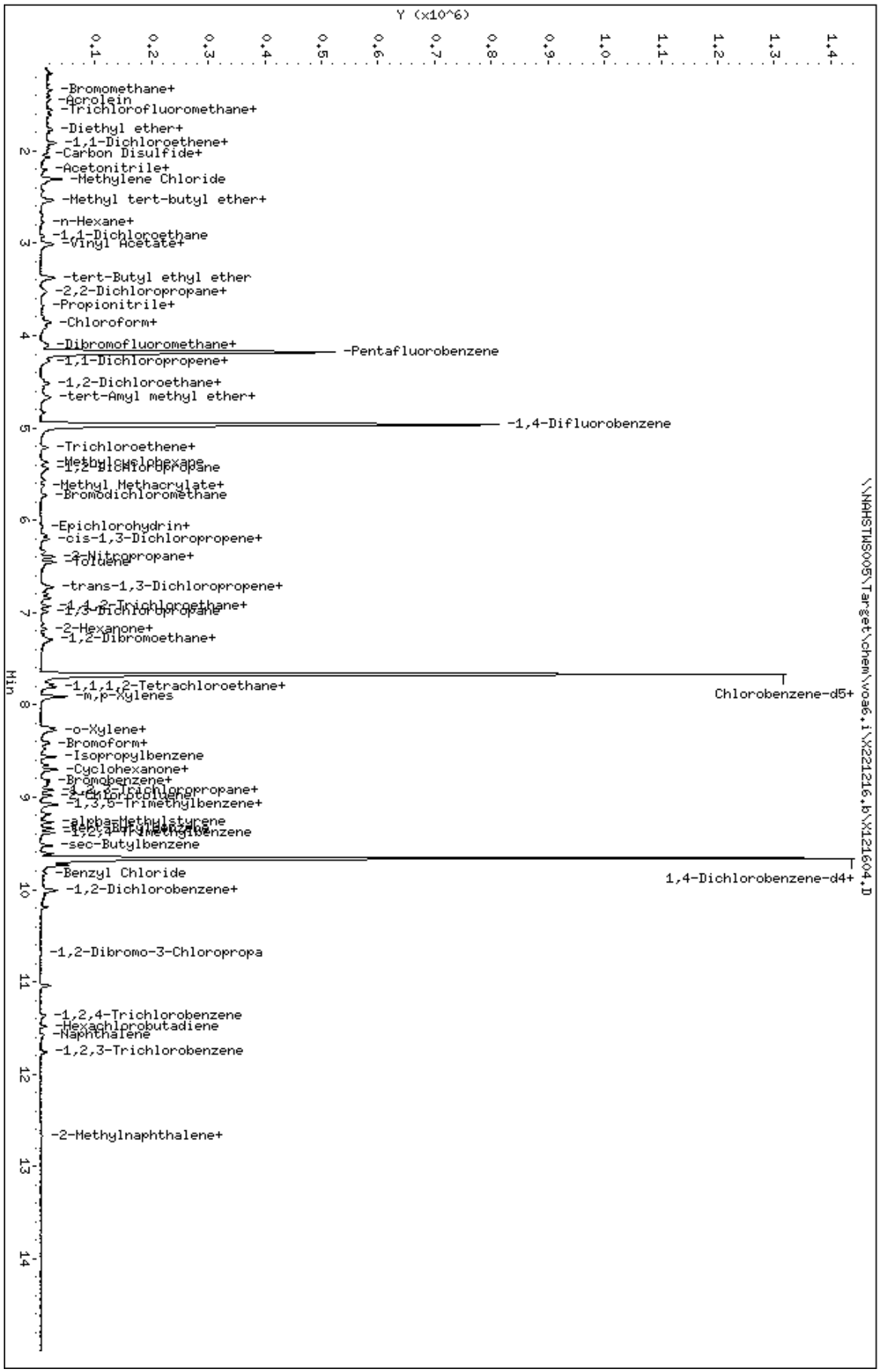
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	131	Methyl Acrylate	55	3.743	3.743	(0.896)	3084	1.00000	1.00(M)
	162	Butyl acrylate	55	8.271	8.271	(1.078)	7647	1.00000	0.90
	2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	2911	1.00000	1.30
	3	Chloromethane	50	1.078	1.078	(0.258)	3670	1.00000	3.07
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	3645	1.00000	0.92
	6	Bromomethane	94	1.340	1.340	(0.321)	3293	1.00000	2.83
	7	Chloroethane	64	1.400	1.400	(0.335)	2516	1.00000	0.91(M)
	8	Trichlorofluoromethane	101	1.554	1.554	(0.372)	4906	1.00000	0.89
	9	Acrolein	56	1.452	1.452	(0.348)	761	2.00000	5.22(M)
	10	Acetone	43	1.977	1.977	(0.473)	4787	2.00000	3.75(M)
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	3238	1.00000	0.94
	15	Iodomethane	142	2.026	2.026	(0.485)	3865	2.00000	4.18(TM)
	16	Acrylonitrile	53	2.554	2.554	(0.612)	2258	2.00000	1.94(M)
	17	Methylene Chloride	84	2.300	2.300	(0.550)	5355	1.00000	1.14(M)
	18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	12521	1.00000	1.11
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	18122	2.00000	2.02
	20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	3821	1.00000	0.99
	21	Vinyl Acetate	43	3.012	3.012	(0.721)	17842	2.00000	1.81
	22	1,1-Dichloroethane	63	2.922	2.922	(0.699)	7218	1.00000	1.07
	24	2-Butanone	43	3.619	3.619	(0.866)	2498	2.00000	4.83(M)
	26	2,2-Dichloropropane	77	3.514	3.514	(0.841)	5896	1.00000	1.03
	27	cis-1,2-Dichloroethene	96	3.540	3.540	(0.847)	4469	1.00000	0.96
	28	Chloroform	83	3.908	3.908	(0.935)	7768	1.00000	1.03
	29	Bromochloromethane	128	3.803	3.803	(0.910)	2689	1.00000	1.05
$	30	Dibromofluoromethane	113	4.103	4.103	(0.982)	4769	1.00000	0.94
	31	1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	5914	1.00000	0.99
	32	1,1-Dichloropropene	75	4.286	4.286	(0.863)	4698	1.00000	0.96
	33	1,2-Dichloroethane	62	4.564	4.564	(0.919)	5568	1.00000	0.99
	34	Carbon Tetrachloride	117	4.271	4.271	(0.860)	6221	1.00000	1.19
$	35	1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	5559	1.00000	1.48
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685937	50.0000	
	37	Benzene	78	4.515	4.515	(0.909)	16367	1.00000	0.99
	38	Trichloroethene	130	5.216	5.216	(1.051)	4352	1.00000	0.93
	39	Bromodichloromethane	83	5.730	5.730	(1.154)	6296	1.00000	1.02(M)
	41	2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	3202	2.00000	1.83(M)
	42	1,2-Dichloropropane	63	5.445	5.445	(1.097)	4604	1.00000	1.05(M)
	44	Dibromomethane	93	5.557	5.557	(1.119)	2906	1.00000	0.98
	45	4-Methyl-2-Pentanone	43	6.341	6.341	(0.827)	6859	2.00000	1.97
	46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	6537	1.00000	0.90
*	47	Chlorobenzene-d5	117	7.671	7.671	(1.000)	649074	50.0000	
$	48	Toluene-d8	98	6.401	6.401	(0.834)	17067	1.00000	1.06
	50	Toluene	91	6.457	6.457	(0.842)	17914	1.00000	0.99
	51	trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	5418	1.00000	0.90
	52	2-Hexanone	43	7.109	7.109	(0.927)	4520	2.00000	1.91
	53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	3499	1.00000	0.97
	54	1,3-Dichloropropane	76	6.989	6.989	(0.911)	7216	1.00000	1.01
	55	Dibromochloromethane	129	7.177	7.177	(0.936)	5024	1.00000	0.96
	56	Tetrachloroethene	164	6.933	6.933	(0.904)	3331	1.00000	0.89
	57	1,2-Dibromoethane	107	7.270	7.270	(0.948)	4350	1.00000	0.96
	58	1-Chlorohexane	55	7.705	7.705	(1.552)	3155	1.00000	0.95(MH)
	59	Chlorobenzene	112	7.698	7.698	(1.003)	12555	1.00000	0.98
	60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	4485	1.00000	0.94

61 Ethylbenzene	106	7.806	7.806 (1.018)	5698	1.00000	0.95
62 m,p-Xylenes	106	7.911	7.911 (1.031)	14464	2.00000	1.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.249	8.249	(1.075)	6670	1.00000	0.87
	64 Styrene	104	8.282	8.282	(1.080)	10384	1.00000	0.81
	66 Bromoform	173	8.417	8.417	(1.097)	3274	1.00000	0.90(T)
	67 Isopropylbenzene	105	8.564	8.564	(1.116)	15163	1.00000	0.87
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	5934	1.00000	1.05(M)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.134)	7790	1.00000	1.36(M)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	351251	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	3978	1.00000	1.01
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	15006	1.00000	0.77
	74 Bromobenzene	156	8.818	8.818	(0.913)	5554	1.00000	0.96
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	11820	1.00000	0.82
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	12470	1.00000	0.97
	77 4-Chlorotoluene	91	9.085	9.085	(0.940)	12140	1.00000	0.83
	78 tert-Butylbenzene	119	9.340	9.340	(0.967)	9357	1.00000	0.79
	79 1,2,4-Trimethylbenzene	105	9.385	9.385	(0.971)	12988	1.00000	0.85
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	12395	1.00000	0.79
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	10009	1.00000	0.71
	83 1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	8523	1.00000	0.89
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	9866	1.00000	0.94
	86 Benzyl Chloride	91	9.823	9.823	(1.280)	4632	1.00000	3.12
	87 n-Butylbenzene	91	10.014	10.014	(1.036)	8459	1.00000	2.37(M)
	88 1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	8626	1.00000	0.87
	89 1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	778	1.00000	0.95(M)
	90 1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	4609	1.00000	0.74
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	1928	1.00000	0.65
	92 Naphthalene	128	11.574	11.574	(1.198)	11288	1.00000	0.79(M)
	93 1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	4801	1.00000	0.80
M	94 1,2-Dichloroethylene (total)	96				8290	2.00000	
M	95 Xylenes (total)	106				21134	3.00000	
	141 Cyclohexane	56	4.125	4.125	(0.987)	4003	1.00000	2.12(H)
	138 Freon TF	101	1.906	1.906	(0.456)	3356	1.00000	1.01
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	6848	1.00000	0.81(M)
	146 Methyl Acetate	43	2.236	2.236	(0.535)	2127	1.00000	1.04(M)
	148 Tert-Butyl alcohol	59	2.438	2.438	(0.584)	6051	20.0000	19.40(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 16-DEC-2022 12:41
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

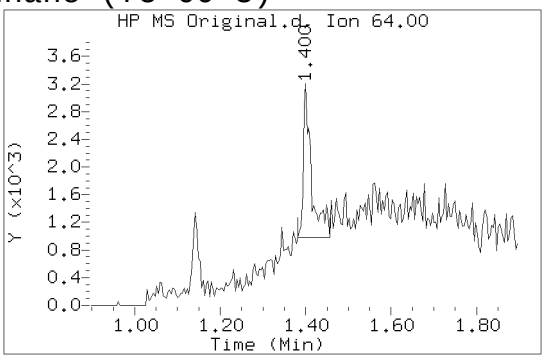
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
64
AREA
2984
HEIGHT
2221
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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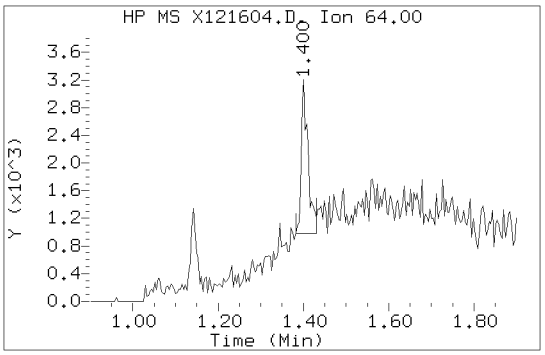
AREA
2516
HEIGHT
2221
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
66
AREA
1262
HEIGHT
1002
27-Dec-2022
16:03
linh
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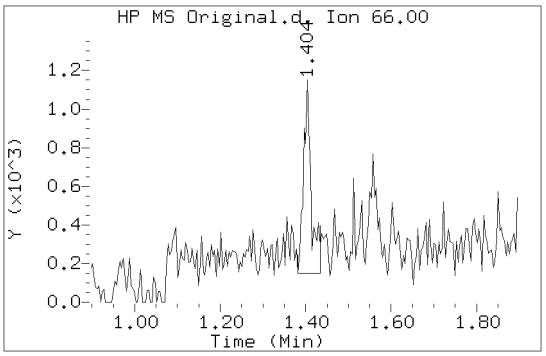

AFTER

MASS
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1262
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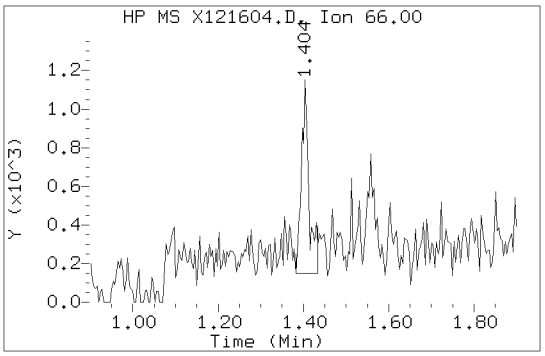
1002
27-Dec-2022
16:07
linh
pham



Acrolein (107-02-8)

Reason Code:

BEFORE

MASS
56
AREA
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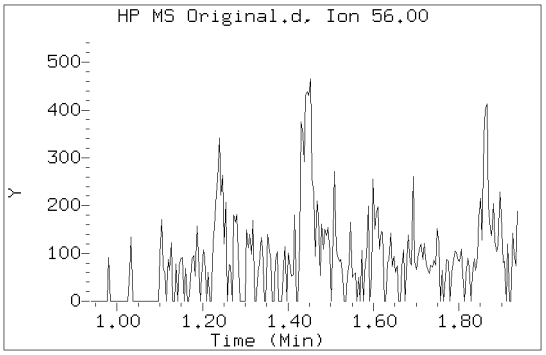
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
56
AREA
761
HEIGHT
465
27-Dec-2022
16:07
linh
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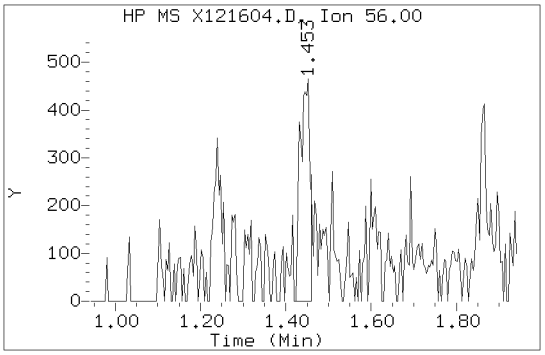
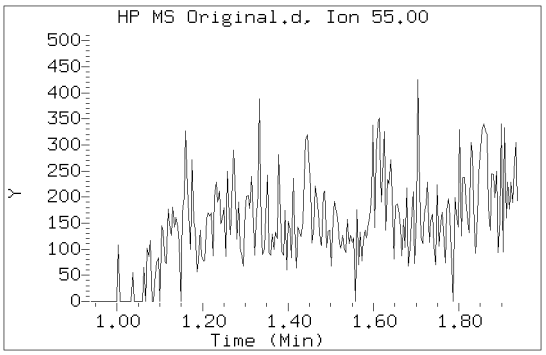


BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
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HEIGHT
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27-Dec-2022
16:07
linh
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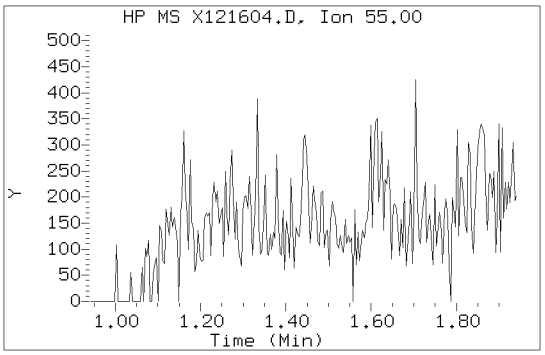

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Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Acetone (67-64-1)

Reason Code:

BEFORE
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AREA
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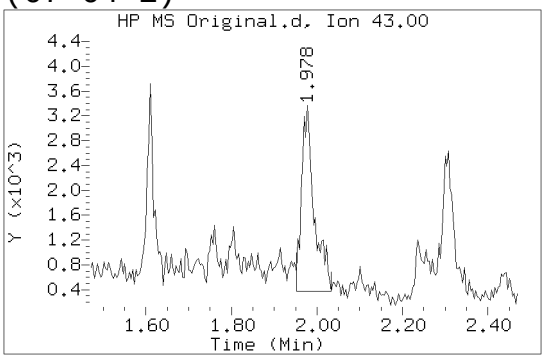
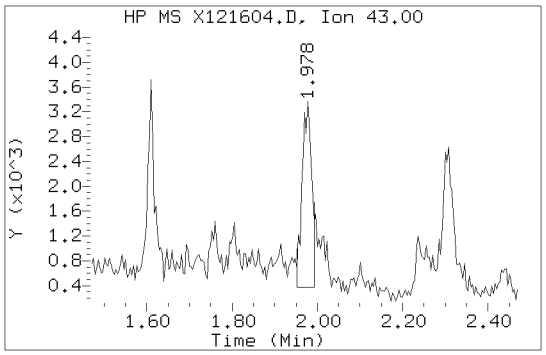
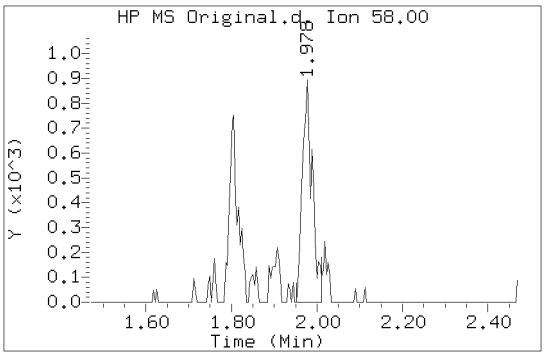
HEIGHT
2993
27-Dec-2022
16:03
linh
pham



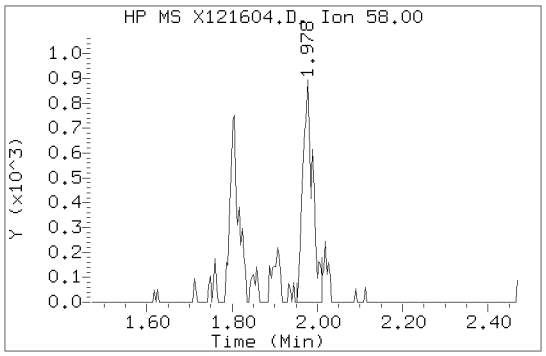
AFTER
MASS
43
AREA
4787
HEIGHT
2993
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
58
AREA
1474
HEIGHT
894
27-Dec-2022
16:03
linh
pham



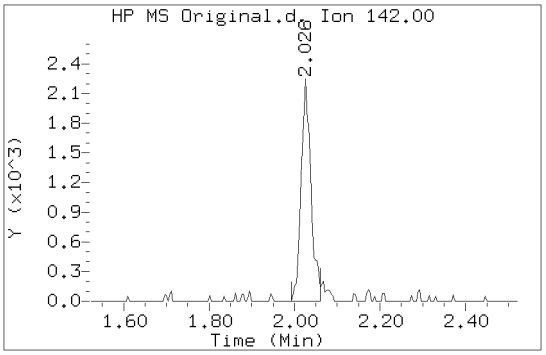
AFTER
MASS
58
AREA
1474
HEIGHT
894
27-Dec-2022
16:07
linh
pham



Iodomethane (74-88-4)

Reason Code:

BEFORE
MASS
142
AREA
3661
HEIGHT
2248
27-Dec-2022
16:03
linh
pham



AFTER
MASS
142
AREA
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HEIGHT
2248
27-Dec-2022
16:07
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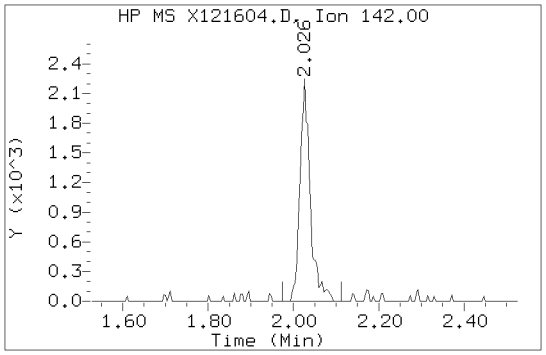
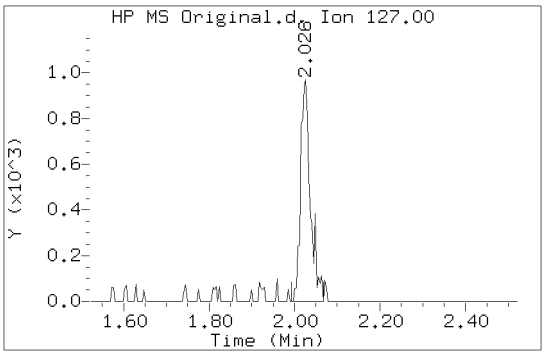
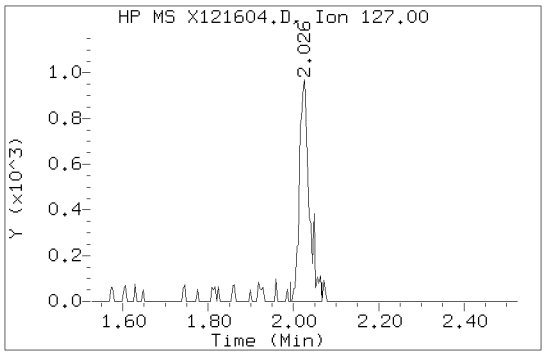


BEFORE
MASS
127
AREA
1585
HEIGHT
970
27-Dec-2022
16:03
linh
pham



AFTER
MASS
127
AREA
1585
HEIGHT
970
27-Dec-2022
16:07
linh
pham



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Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Iodomethane (74-88-4)

Reason Code:

BEFORE

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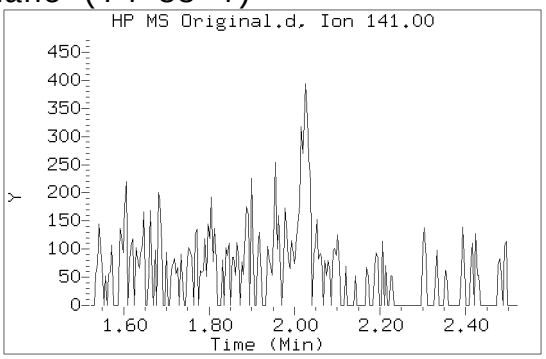
141
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
141
AREA
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HEIGHT
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16:07
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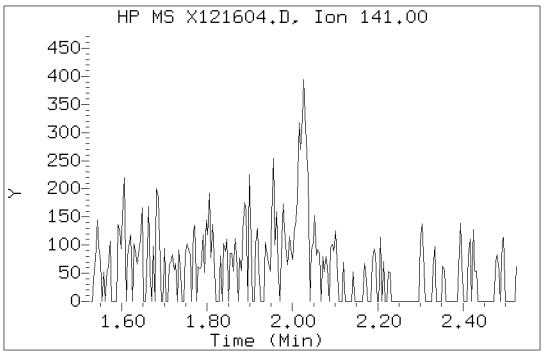
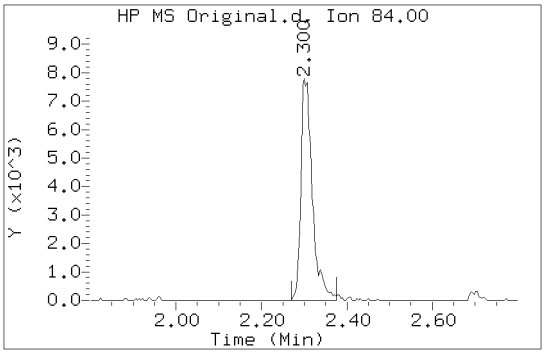


Methylene Chloride (75-09-2)

Reason Code:

BEFORE

MASS
84
AREA
14864
HEIGHT
7788
27-Dec-2022
16:03
linh
pham



AFTER

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AREA
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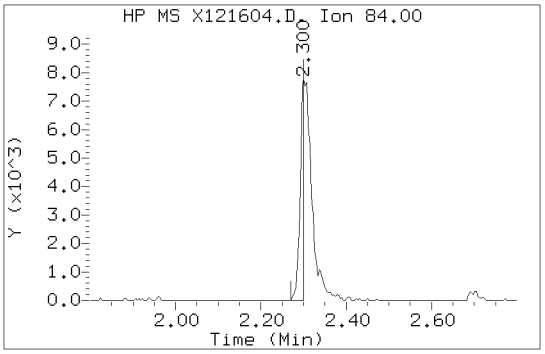
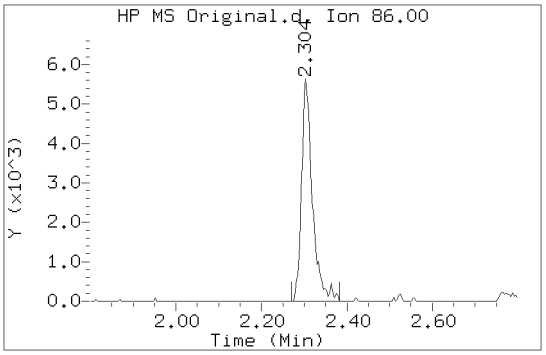
HEIGHT
7788
27-Dec-2022
16:07
linh
pham



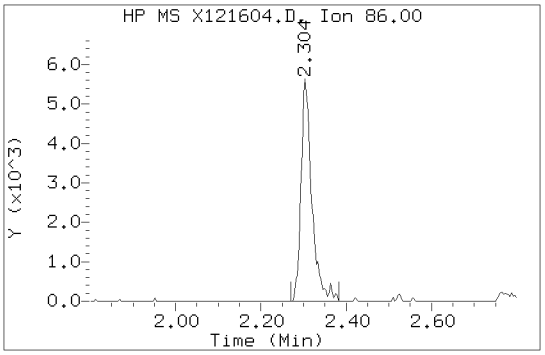
BEFORE

MASS
86
AREA
10161
HEIGHT
5637
27-Dec-2022
16:03
linh
pham



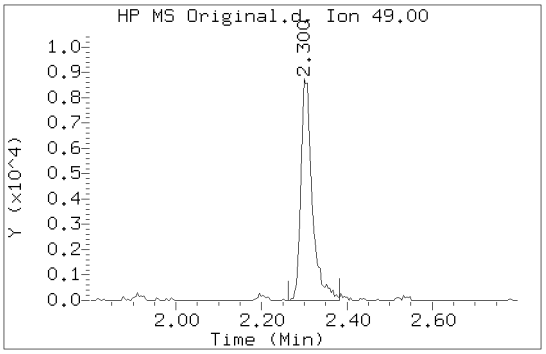
AFTER

MASS
86
AREA
10161
HEIGHT
5637
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
49
AREA
16641
HEIGHT
8752
27-Dec-2022
16:03
linh
pham



AFTER

MASS
49
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HEIGHT
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27-Dec-2022
16:07
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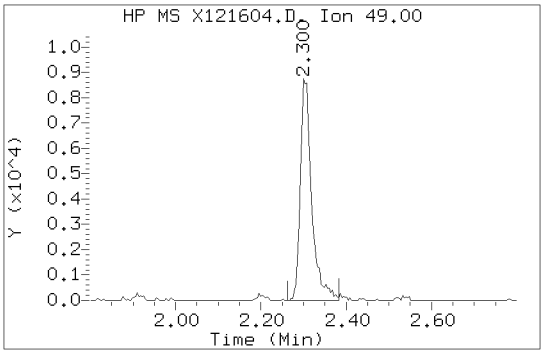
pham



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Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

2-Butanone (78-93-3)

BEFORE

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AREA
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HEIGHT
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27-Dec-2022
16:03
linh
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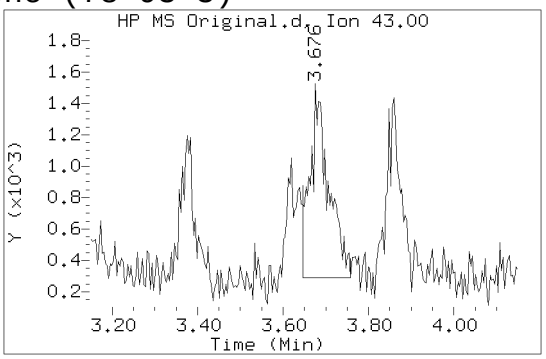

BEFORE

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AREA
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HEIGHT
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27-Dec-2022
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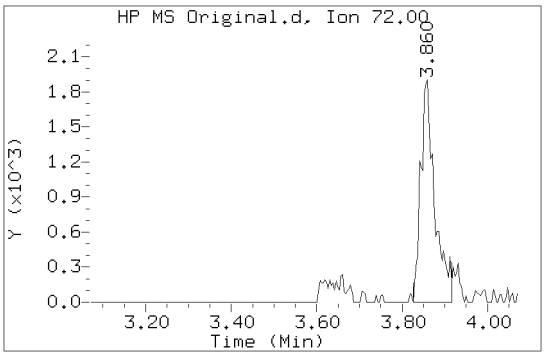

Reason Code:

AFTER

MASS
43
AREA
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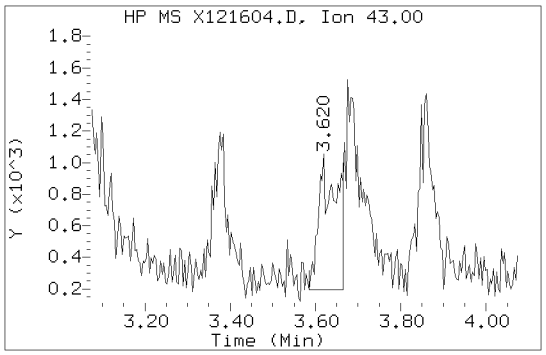
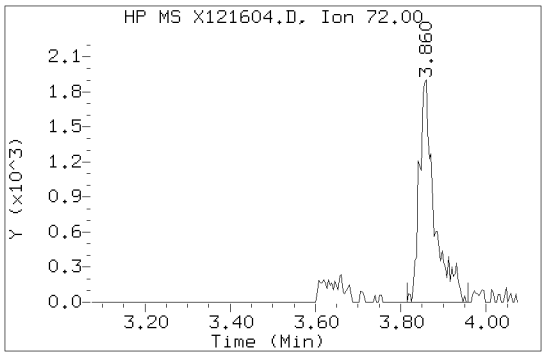
HEIGHT
859
27-Dec-2022
16:07
linh
pham



AFTER

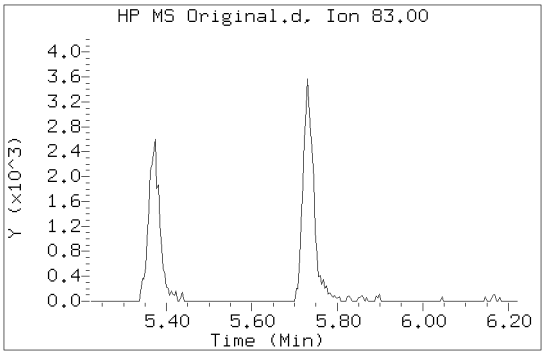
MASS
72
AREA
4690
HEIGHT
1902
27-Dec-2022
16:07
linh
pham



Bromodichloromethane (75-27-4)

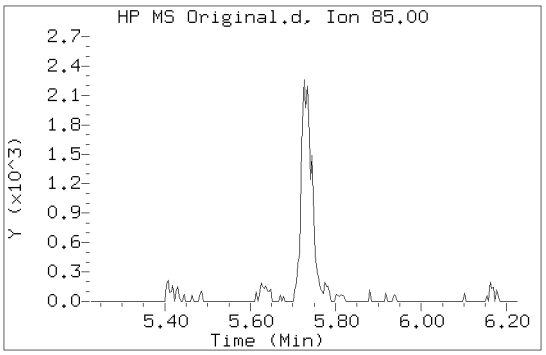
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

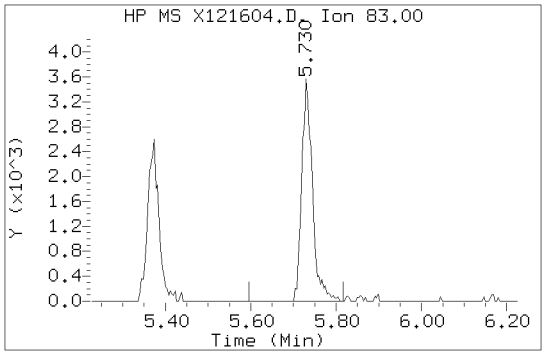
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

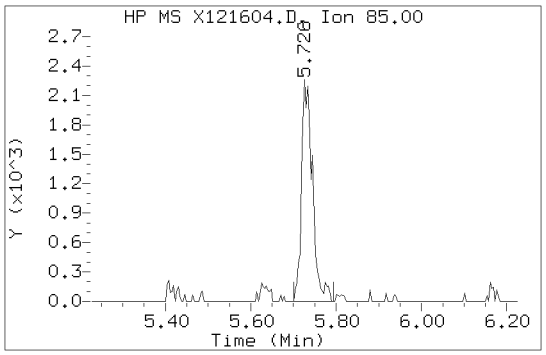
AFTER

MASS
83
AREA
6296
HEIGHT
3568
27-Dec-2022
16:07
linh
pham



AFTER

MASS
85
AREA
4084
HEIGHT
2261
27-Dec-2022
16:07
linh
pham

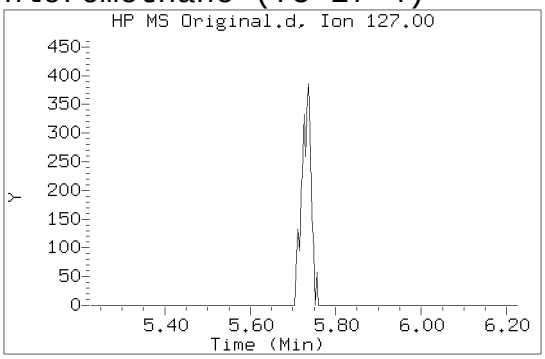


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

BEFORE

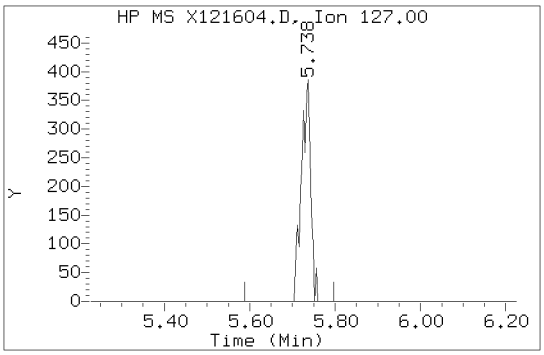
MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

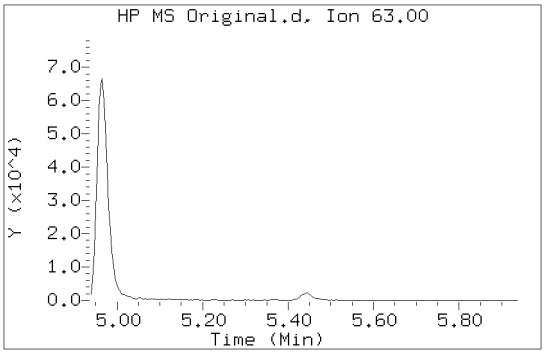
MASS
127
AREA
595
HEIGHT
386
27-Dec-2022
16:07
linh
pham



1,2-Dichloropropane (78-87-5)

BEFORE

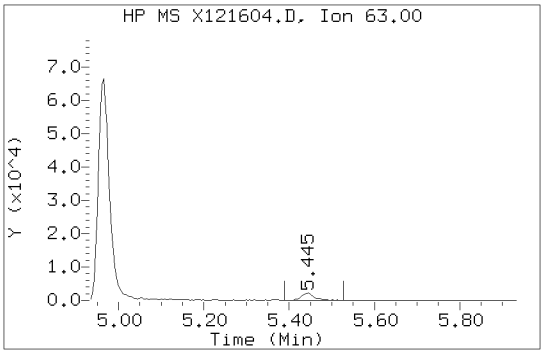
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

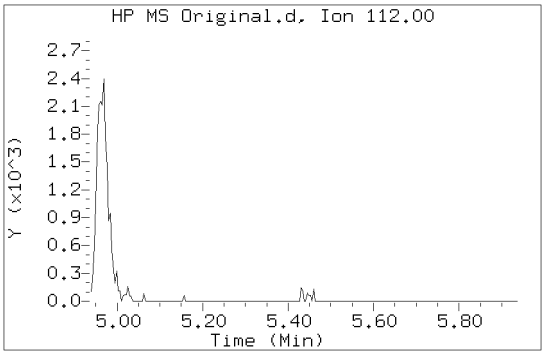
AFTER

MASS
63
AREA
4604
HEIGHT
2381
27-Dec-2022
16:07
linh
pham



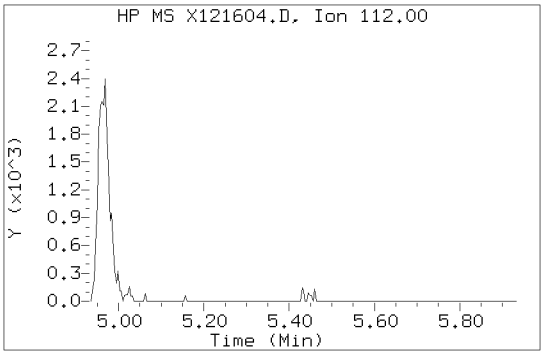
BEFORE

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

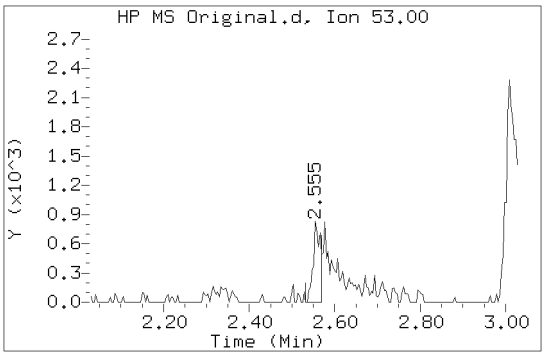
MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Acrylonitrile (107-13-1)

BEFORE

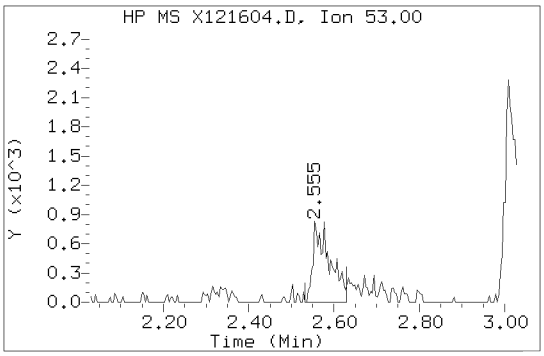
MASS
53
AREA
967
HEIGHT
834
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
53
AREA
2258
HEIGHT
834
27-Dec-2022
16:07
linh
pham



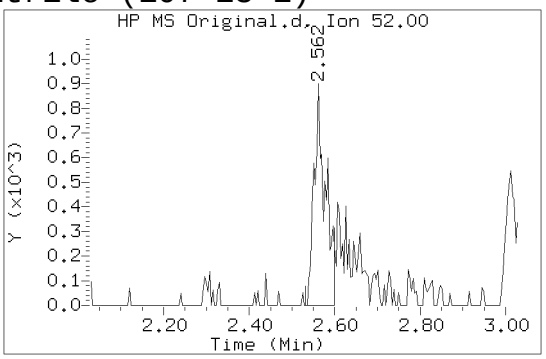
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)

Reason Code:

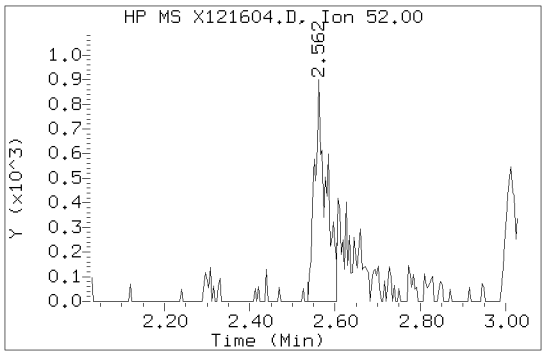
BEFORE

MASS
52
AREA
1657
HEIGHT
900
27-Dec-2022
16:03
linh
pham



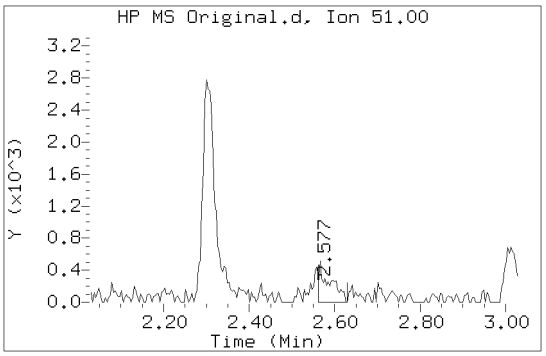
AFTER

MASS
52
AREA
1692
HEIGHT
900
27-Dec-2022
16:07
linh
pham



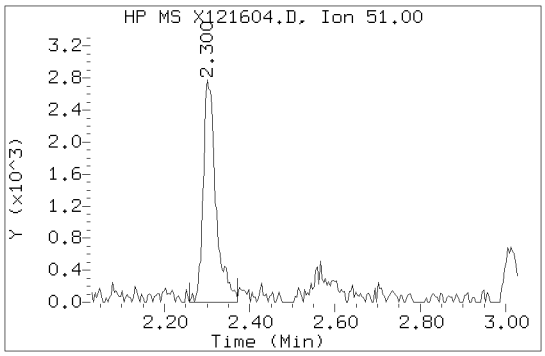
BEFORE

MASS
51
AREA
901
HEIGHT
301
27-Dec-2022
16:03
linh
pham



AFTER

MASS
51
AREA
5757
HEIGHT
2777
27-Dec-2022
16:07
linh
pham

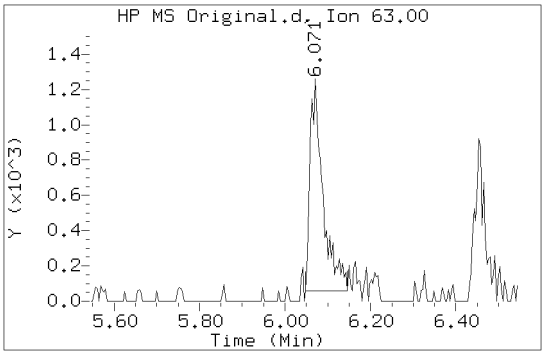


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

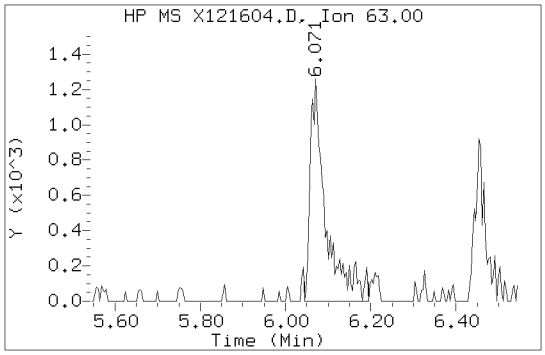
BEFORE

MASS
63
AREA
2513
HEIGHT
1202
27-Dec-2022
16:03
linh
pham



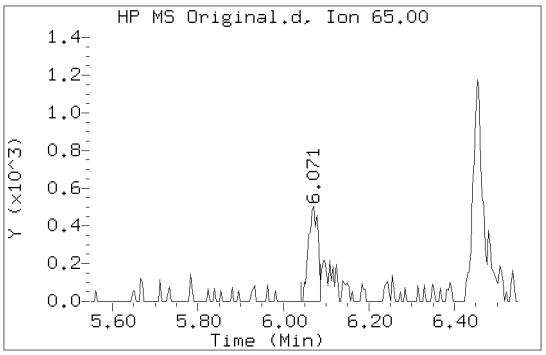
AFTER

MASS
63
AREA
3202
HEIGHT
1260
27-Dec-2022
16:07
linh
pham



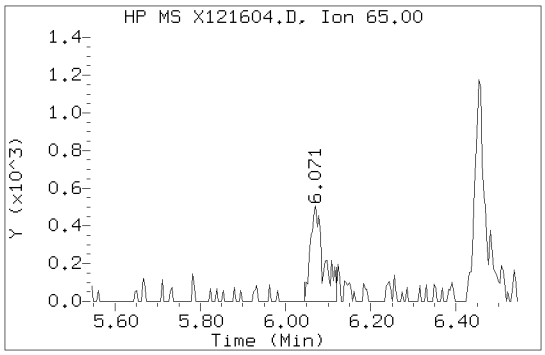
BEFORE

MASS
65
AREA
775
HEIGHT
507
27-Dec-2022
16:03
linh
pham



AFTER

MASS
65
AREA
1093
HEIGHT
507
27-Dec-2022
16:07
linh
pham



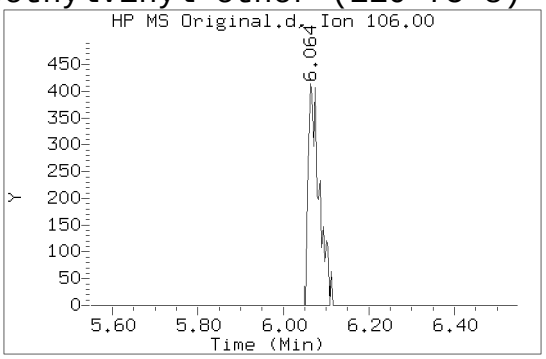
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

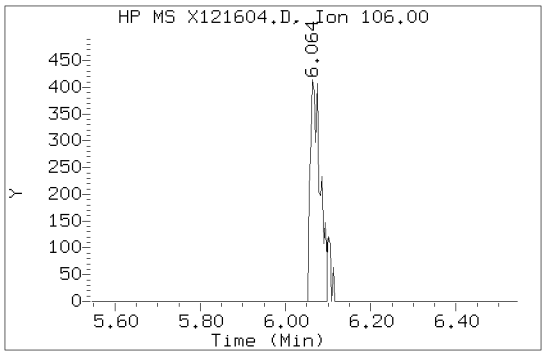
BEFORE

MASS
106
AREA
725
HEIGHT
414
27-Dec-2022
16:03
linh
pham



AFTER

MASS
106
AREA
673
HEIGHT
414
27-Dec-2022
16:07
linh
pham

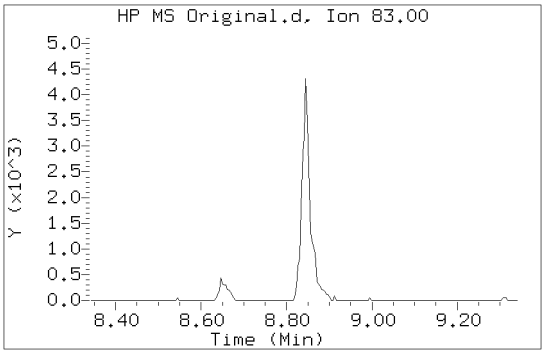


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

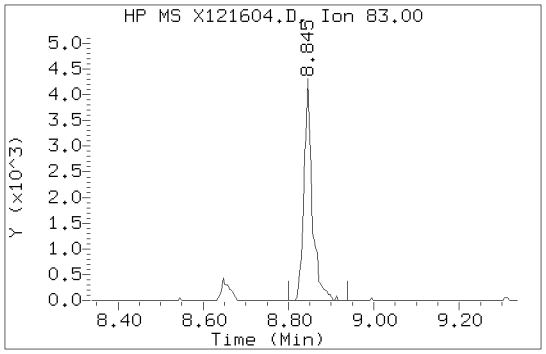
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



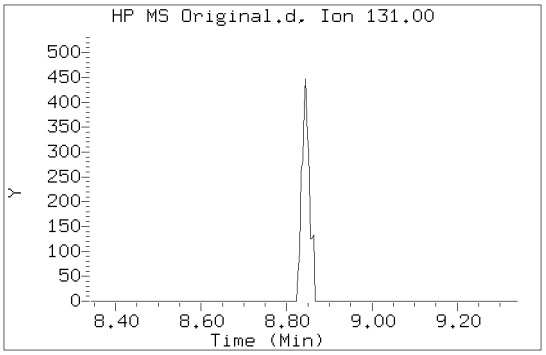
AFTER

MASS
83
AREA
5934
HEIGHT
4312
27-Dec-2022
16:07
linh
pham



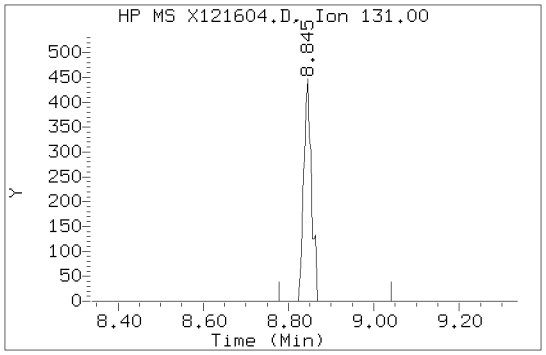
BEFORE

MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



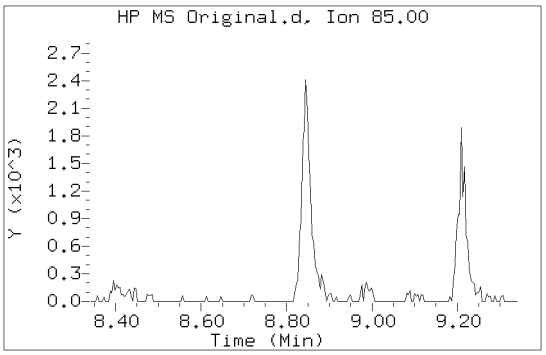
AFTER

MASS
131
AREA
574
HEIGHT
447
27-Dec-2022
16:07
linh
pham



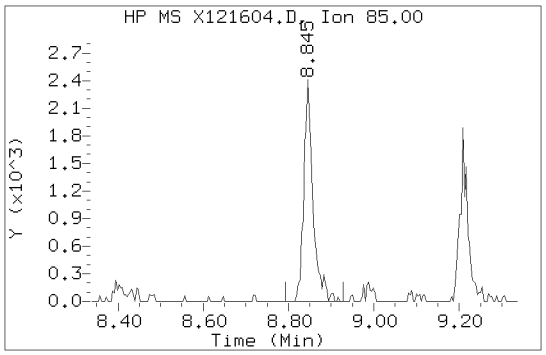
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
3682
HEIGHT
2411
27-Dec-2022
16:07
linh
pham

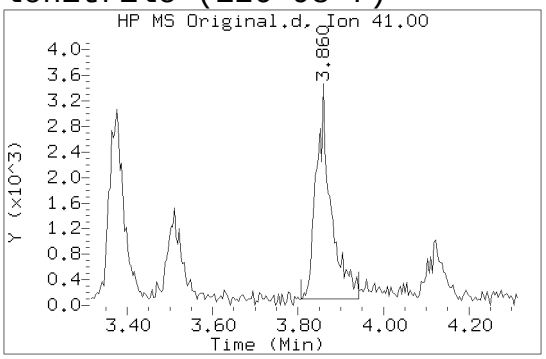


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

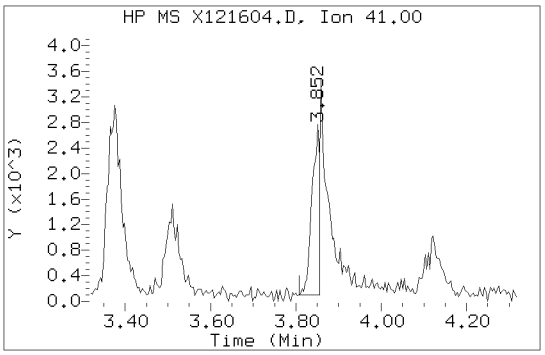
Methacrylonitrile (126-98-7)

Reason Code:

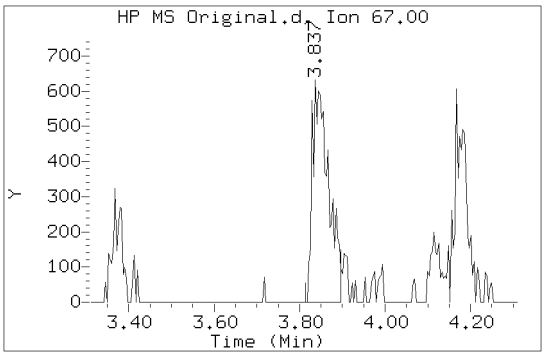
BEFORE
MASS
41
AREA
7966
HEIGHT
3370
27-Dec-2022
16:03
linh
pham



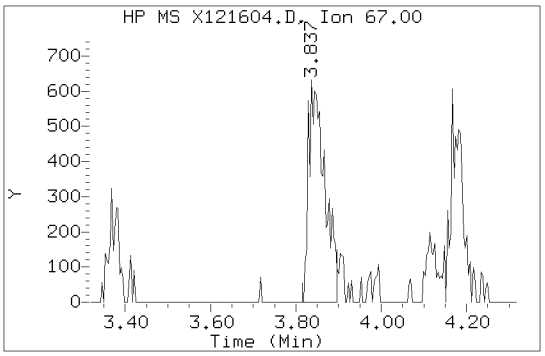
AFTER
MASS
41
AREA
3285
HEIGHT
2668
27-Dec-2022
16:07
linh
pham



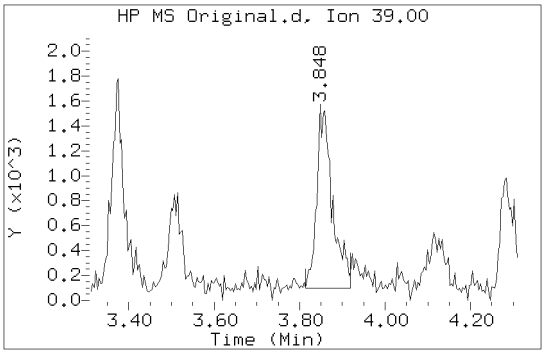
BEFORE
MASS
67
AREA
1649
HEIGHT
632
27-Dec-2022
16:03
linh
pham



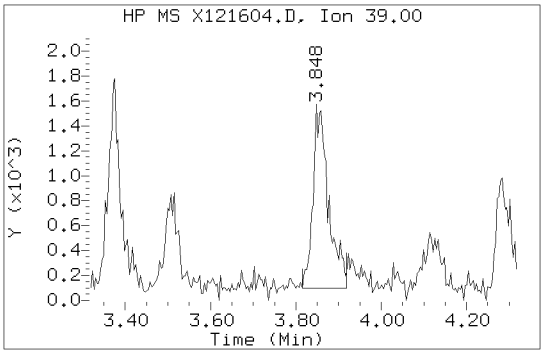
AFTER
MASS
67
AREA
1649
HEIGHT
632
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
39
AREA
3700
HEIGHT
1473
27-Dec-2022
16:03
linh
pham



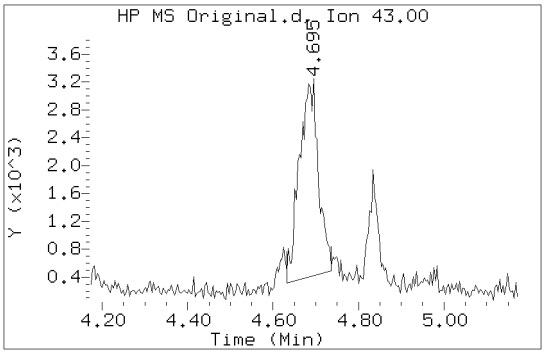
AFTER
MASS
39
AREA
3700
HEIGHT
1473
27-Dec-2022
16:07
linh
pham



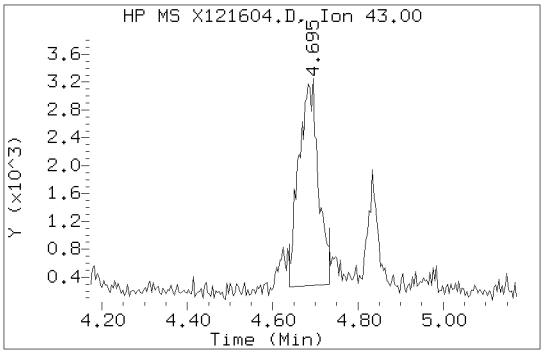
Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
43
AREA
8847
HEIGHT
2826
27-Dec-2022
16:03
linh
pham



AFTER
MASS
43
AREA
9436
HEIGHT
2966
27-Dec-2022
16:07
linh
pham



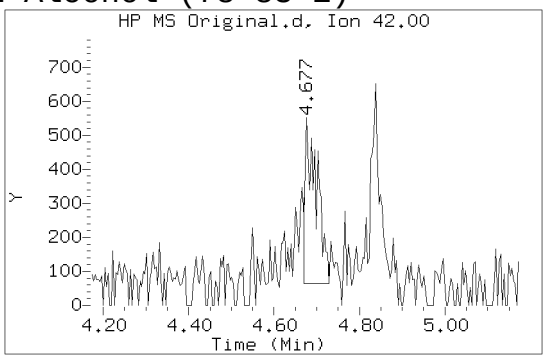
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

Reason Code:

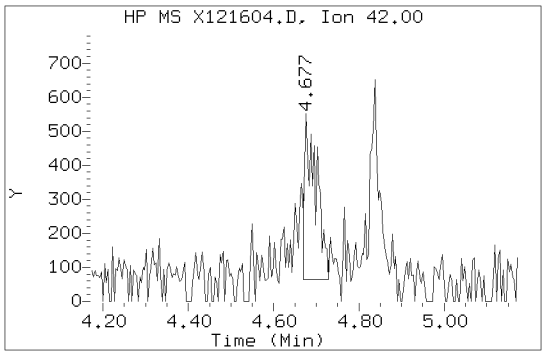
BEFORE

MASS
42
AREA
953
HEIGHT
488
27-Dec-2022
16:03
linh
pham



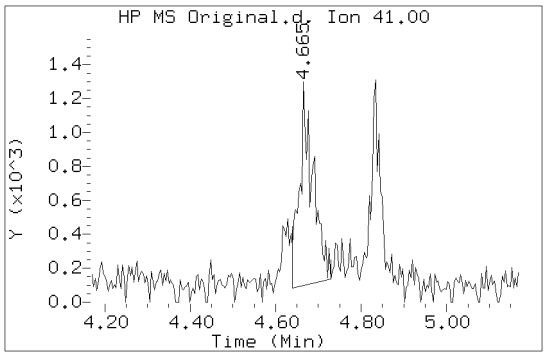
AFTER

MASS
42
AREA
953
HEIGHT
488
27-Dec-2022
16:07
linh
pham



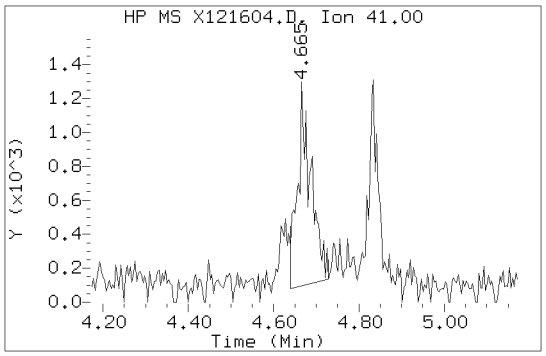
BEFORE

MASS
41
AREA
2650
HEIGHT
1200
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
2656
HEIGHT
1201
27-Dec-2022
16:07
linh
pham

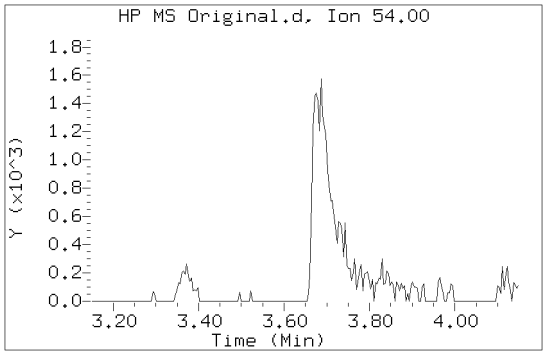


Propionitrile (107-12-0)

Reason Code:

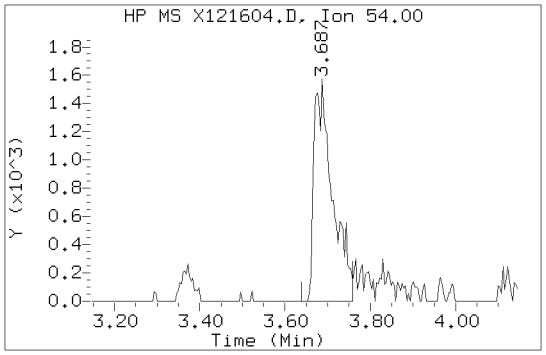
BEFORE

MASS
54
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



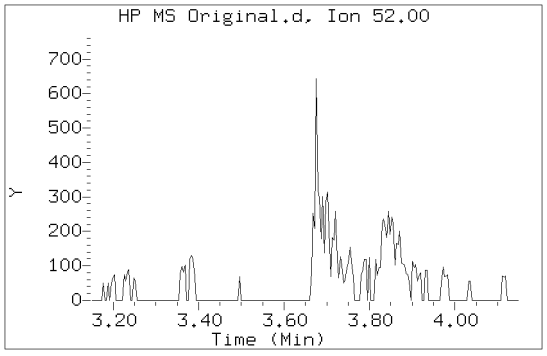
AFTER

MASS
54
AREA
4742
HEIGHT
1574
27-Dec-2022
16:07
linh
pham



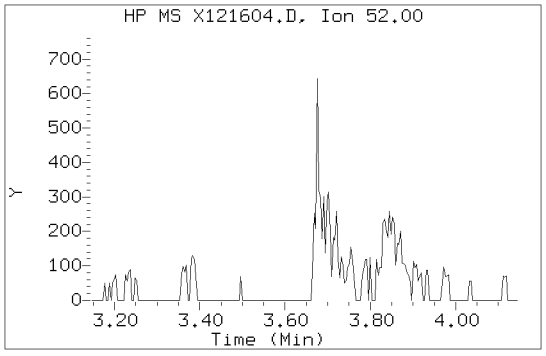
BEFORE

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



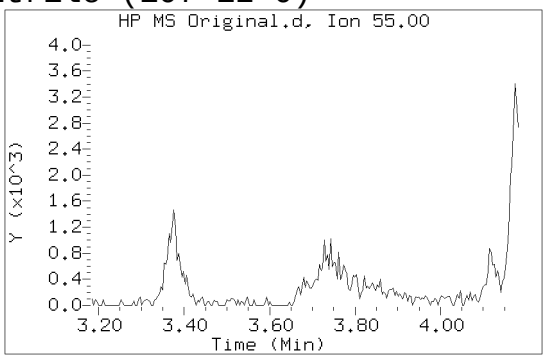
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

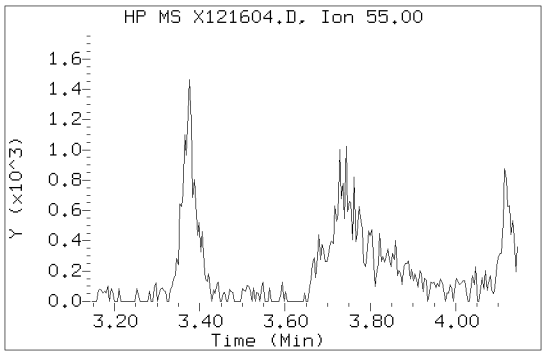
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

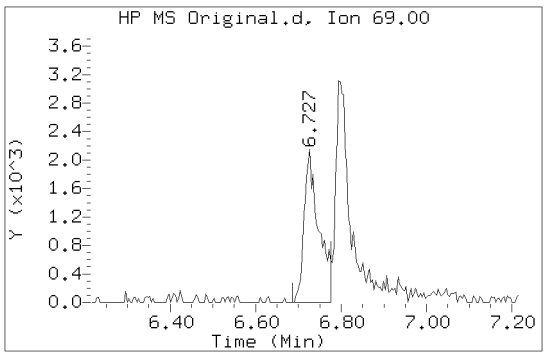


Ethyl Methacrylate (97-63-2)

Reason Code:

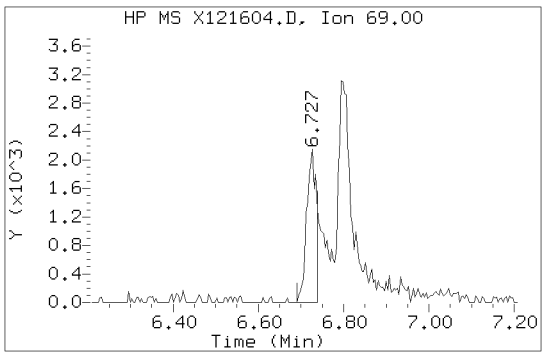
BEFORE

MASS
69
AREA
5177
HEIGHT
2156
27-Dec-2022
16:03
linh
pham



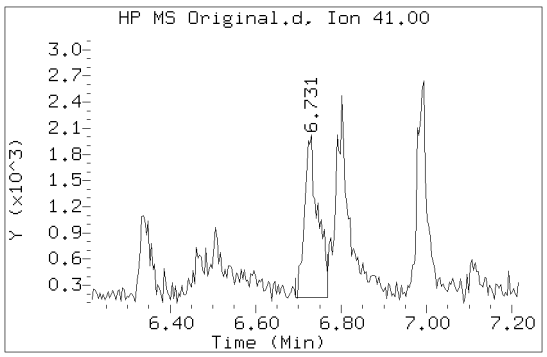
AFTER

MASS
69
AREA
3303
HEIGHT
2156
27-Dec-2022
16:07
linh
pham



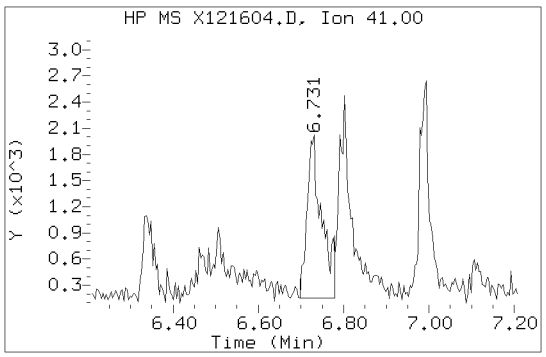
BEFORE

MASS
41
AREA
4059
HEIGHT
1867
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
4485
HEIGHT
1872
27-Dec-2022
16:07
linh
pham

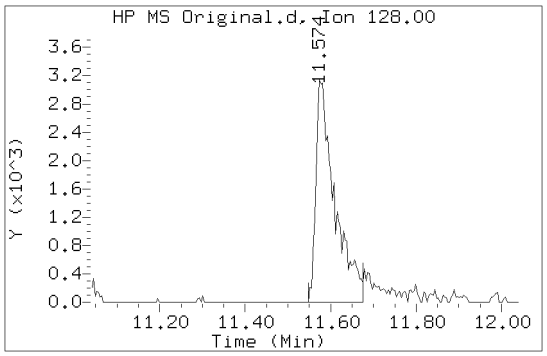


Naphthalene (91-20-3)

Reason Code:

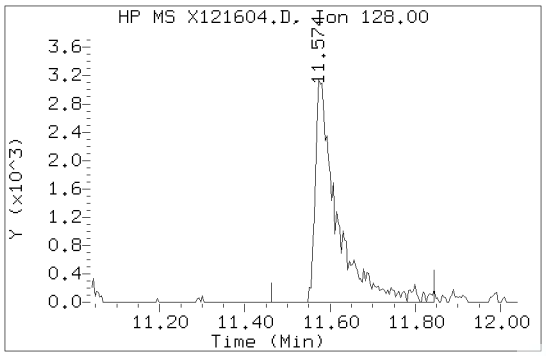
BEFORE

MASS
128
AREA
9627
HEIGHT
3139
27-Dec-2022
16:03
linh
pham



AFTER

MASS
128
AREA
11288
HEIGHT
3139
27-Dec-2022
16:07
linh
pham



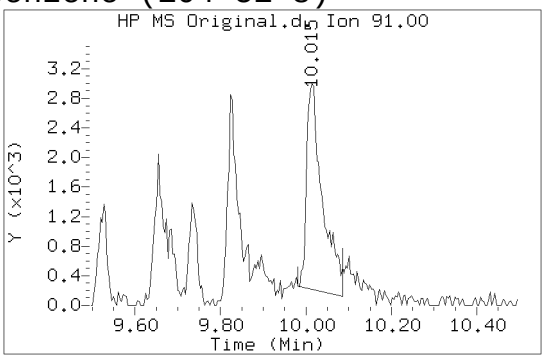
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

n-Butylbenzene (104-51-8)

Reason Code:

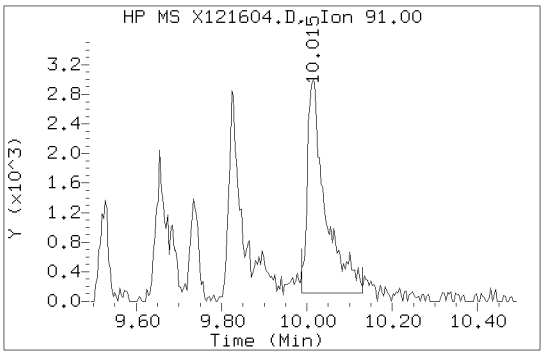
BEFORE

MASS
91
AREA
7194
HEIGHT
2783
27-Dec-2022
16:03
linh
pham



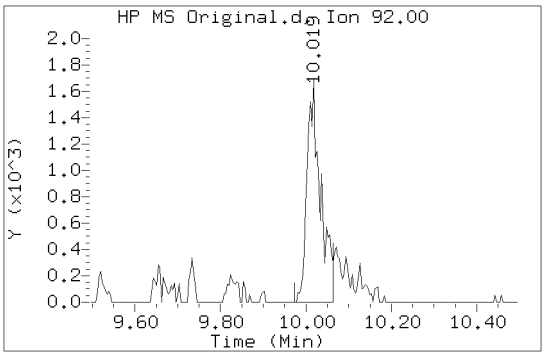
AFTER

MASS
91
AREA
8459
HEIGHT
2887
27-Dec-2022
16:07
linh
pham



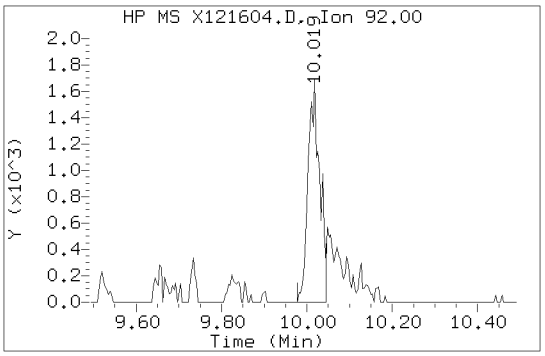
BEFORE

MASS
92
AREA
3696
HEIGHT
1686
27-Dec-2022
16:03
linh
pham



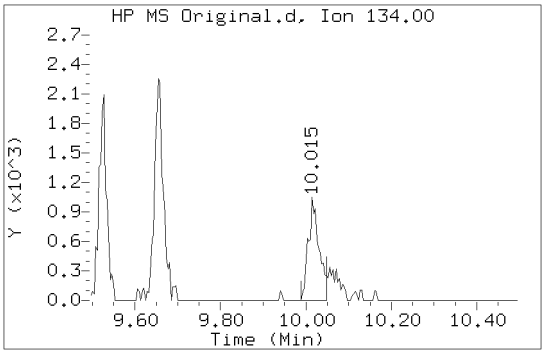
AFTER

MASS
92
AREA
3188
HEIGHT
1686
27-Dec-2022
16:07
linh
pham



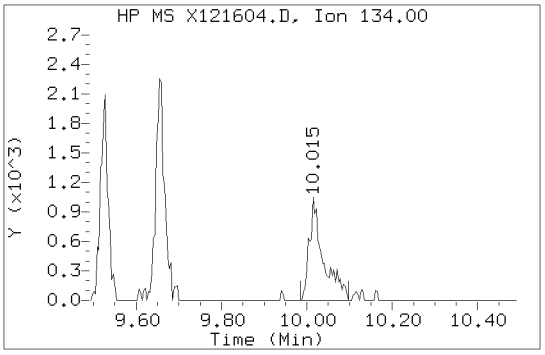
BEFORE

MASS
134
AREA
1829
HEIGHT
1051
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2397
HEIGHT
1051
27-Dec-2022
16:07
linh
pham

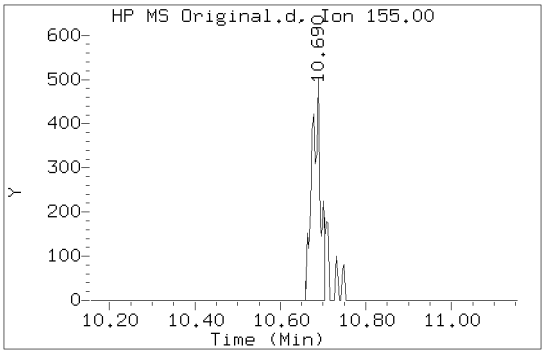


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

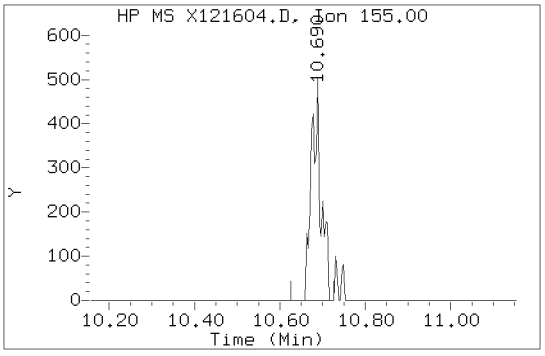
BEFORE

MASS
155
AREA
699
HEIGHT
502
27-Dec-2022
16:03
linh
pham



AFTER

MASS
155
AREA
778
HEIGHT
502
27-Dec-2022
16:07
linh
pham



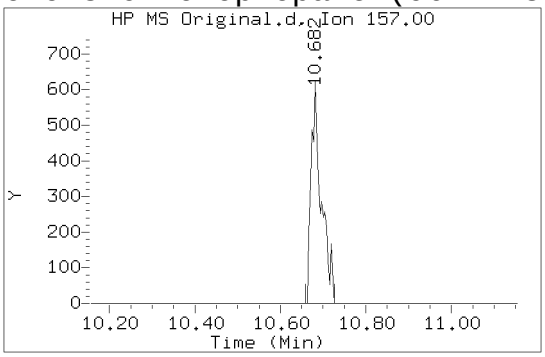
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

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

Reason Code:

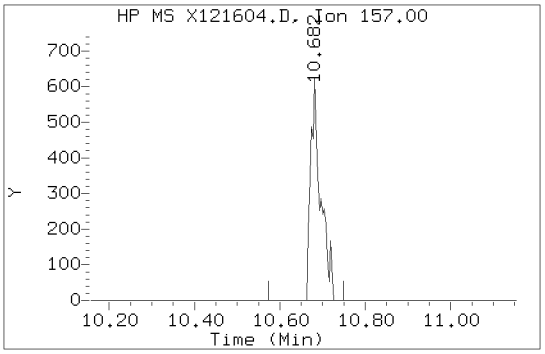
BEFORE

MASS
157
AREA
1023
HEIGHT
622
27-Dec-2022
16:03
linh
pham



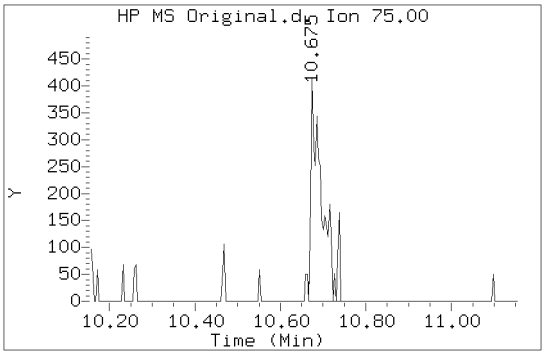
AFTER

MASS
157
AREA
1023
HEIGHT
622
27-Dec-2022
16:07
linh
pham



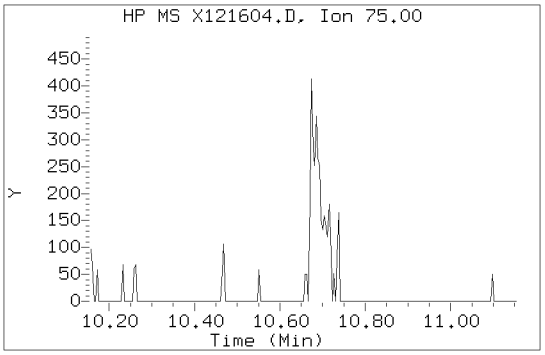
BEFORE

MASS
75
AREA
742
HEIGHT
413
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

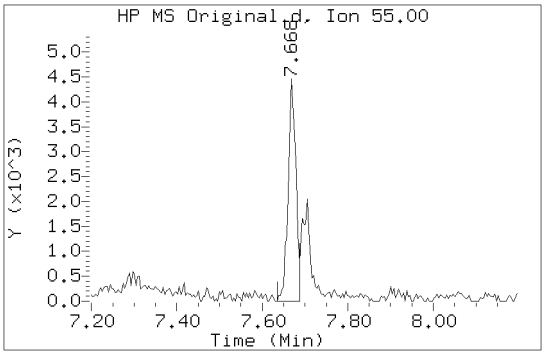


1-Chlorohexane (544-10-5)

Reason Code:

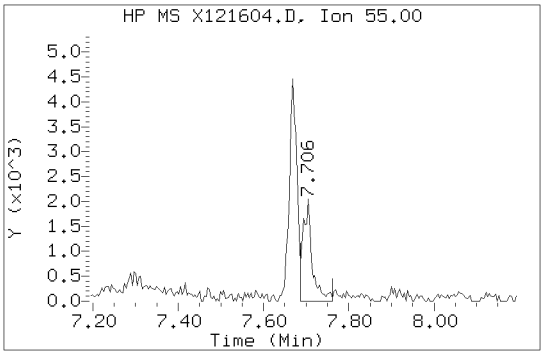
BEFORE

MASS
55
AREA
5660
HEIGHT
4460
27-Dec-2022
16:03
linh
pham



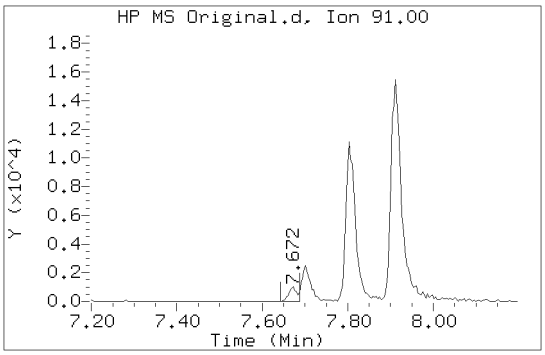
AFTER

MASS
55
AREA
3155
HEIGHT
2048
27-Dec-2022
16:07
linh
pham



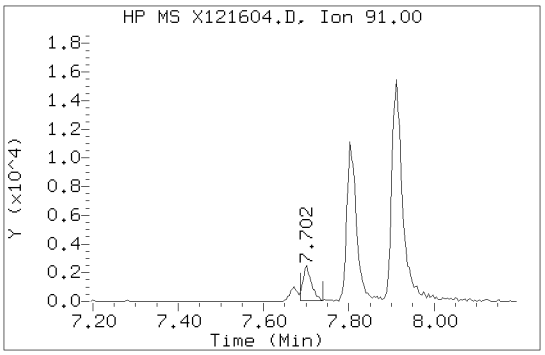
BEFORE

MASS
91
AREA
1392
HEIGHT
1029
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
3448
HEIGHT
2478
27-Dec-2022
16:07
linh
pham

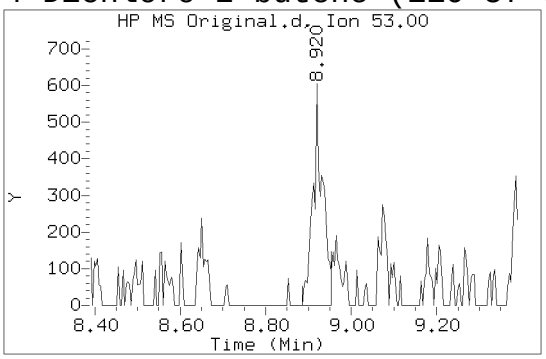


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

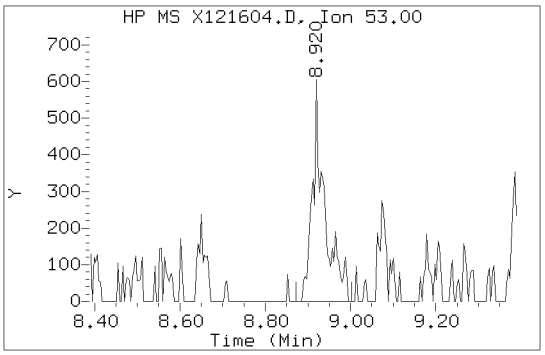
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

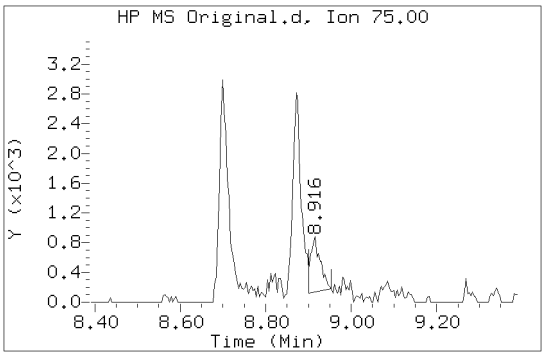
BEFORE
MASS
53
AREA
956
HEIGHT
605
27-Dec-2022
16:03
linh
pham



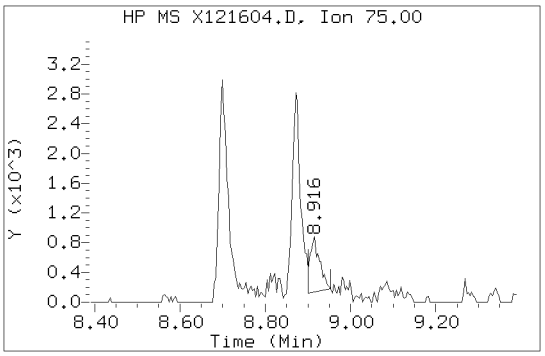
AFTER
MASS
53
AREA
1196
HEIGHT
605
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
75
AREA
1166
HEIGHT
745
27-Dec-2022
16:03
linh
pham



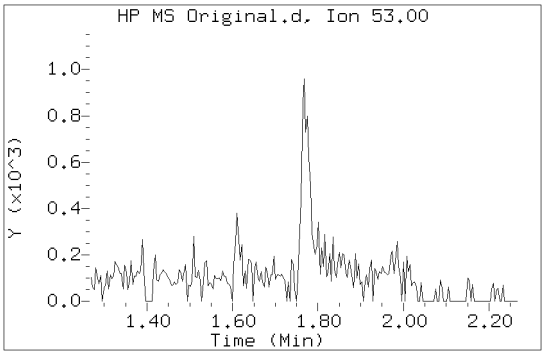
AFTER
MASS
75
AREA
1166
HEIGHT
745
27-Dec-2022
16:07
linh
pham



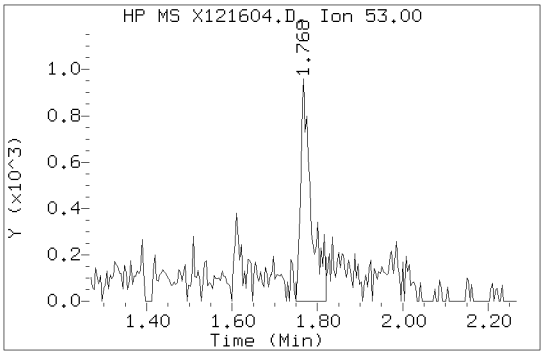
Chloroprene (126-99-8)

Reason Code:

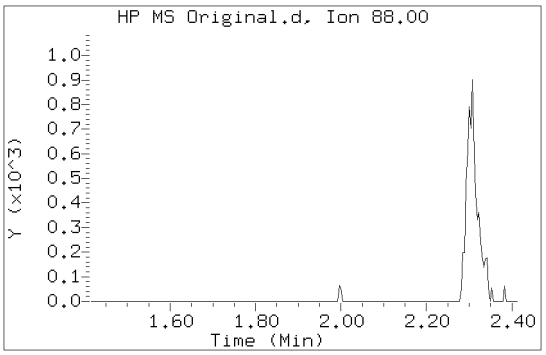
BEFORE
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



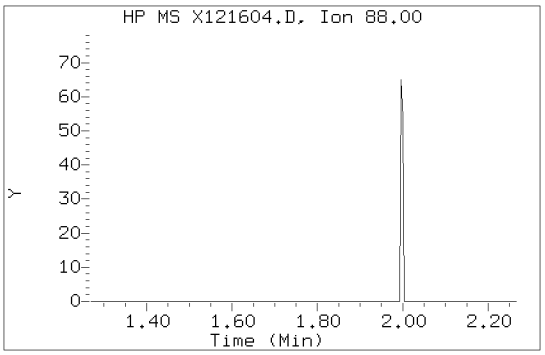
AFTER
MASS
53
AREA
1686
HEIGHT
959
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



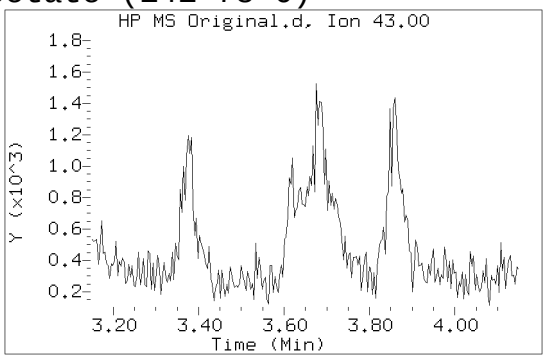
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

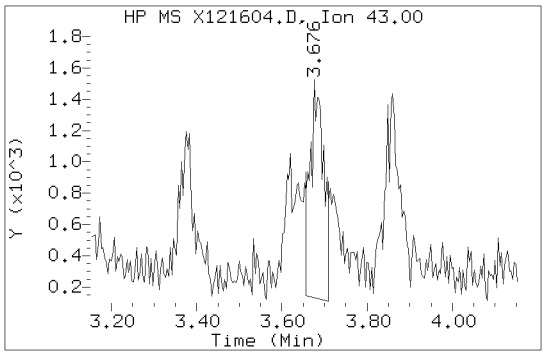
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



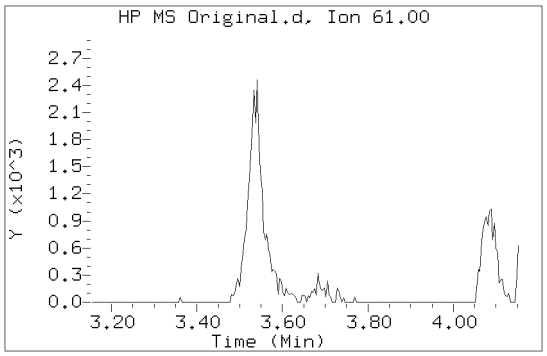
AFTER

MASS
43
AREA
3144
HEIGHT
1392
27-Dec-2022
16:07
linh
pham



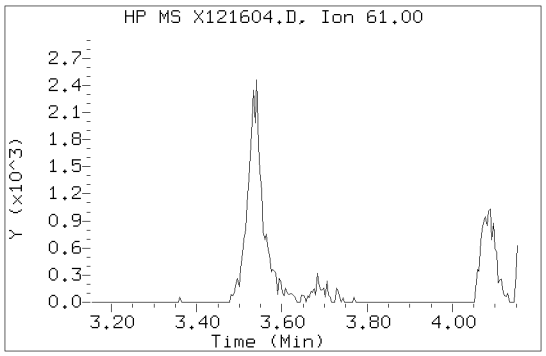
BEFORE

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



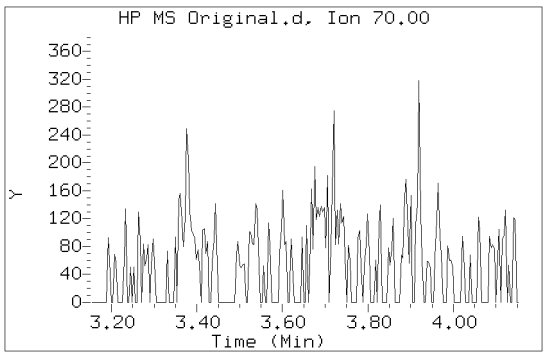
AFTER

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



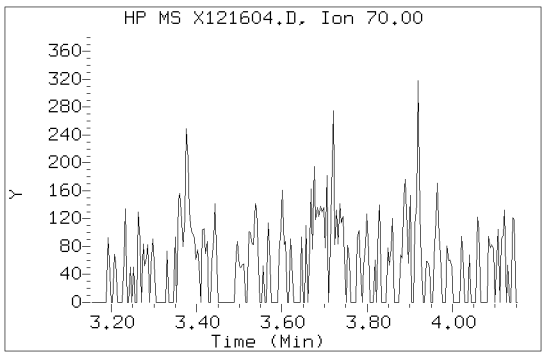
BEFORE

MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

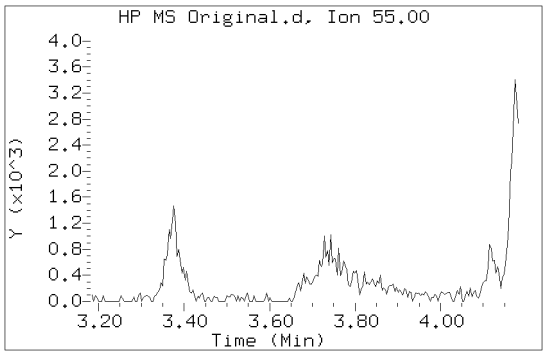


Methyl Acrylate (96-33-3)

Reason Code:

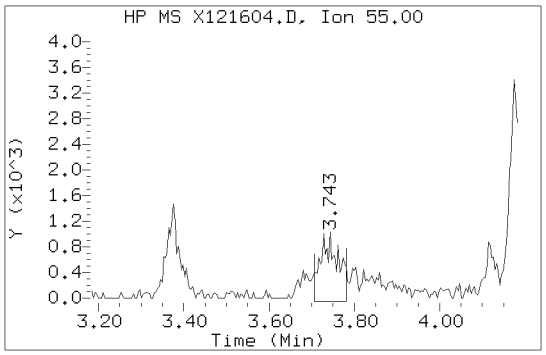
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
3084
HEIGHT
1078
27-Dec-2022
16:07
linh
pham



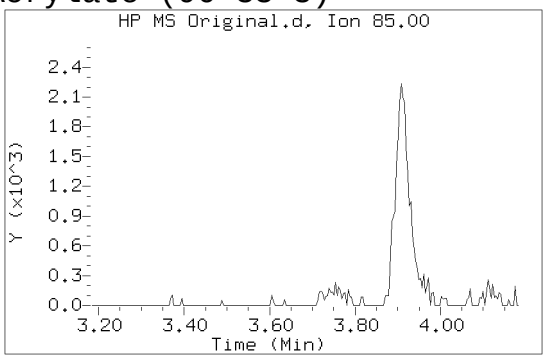
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

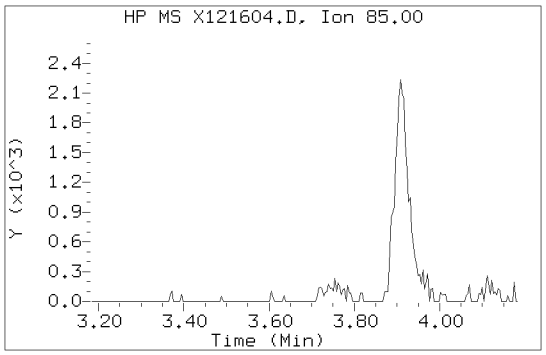
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

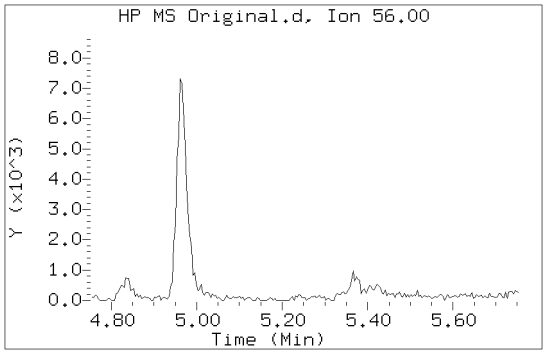


n-Butanol (71-36-3)

Reason Code:

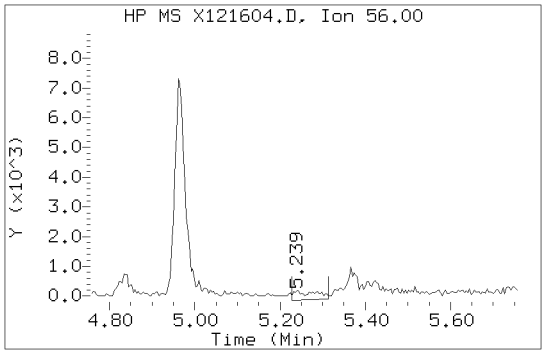
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



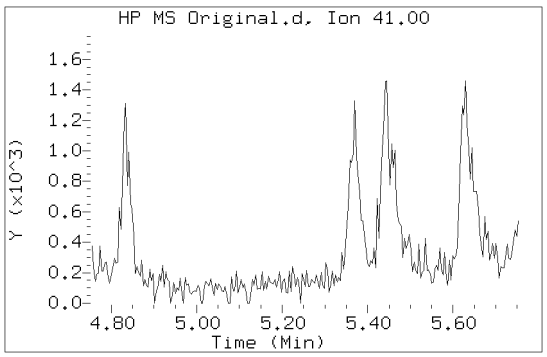
AFTER

MASS
56
AREA
1171
HEIGHT
317
27-Dec-2022
16:07
linh
pham



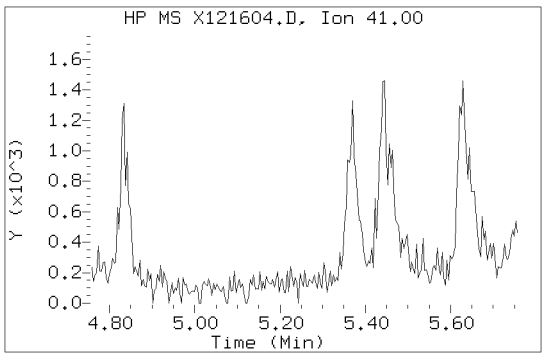
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

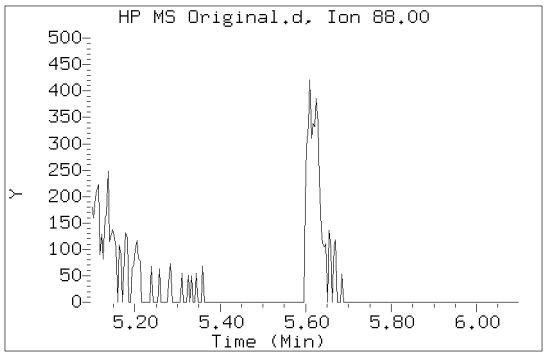


1,4-Dioxane ()

Reason Code:

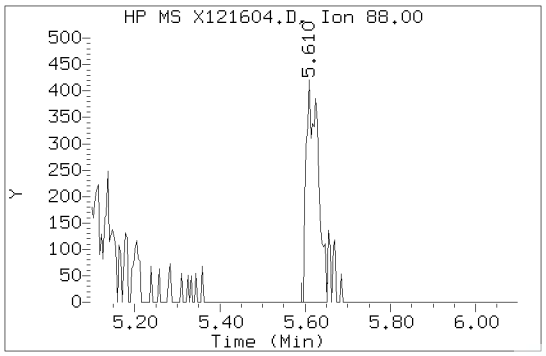
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
820
HEIGHT
421
27-Dec-2022
16:07
linh
pham



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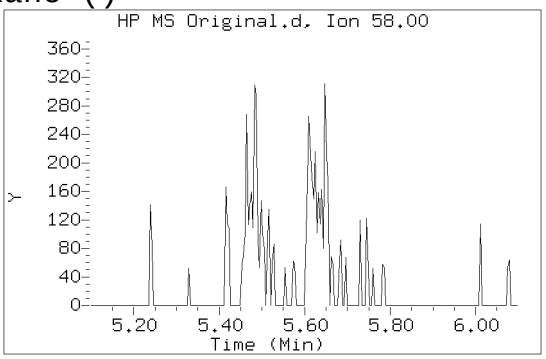
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

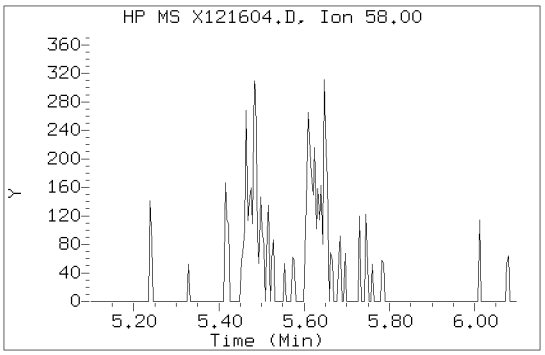
BEFORE

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

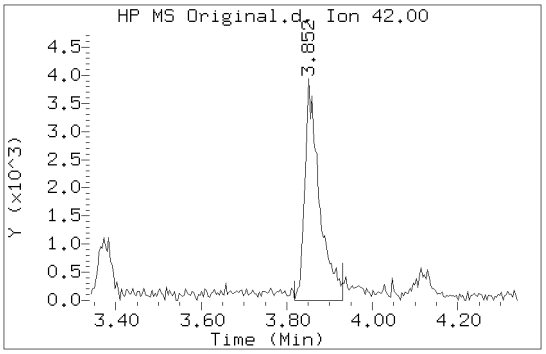


Tetrahydrofuran (109-99-9)

Reason Code:

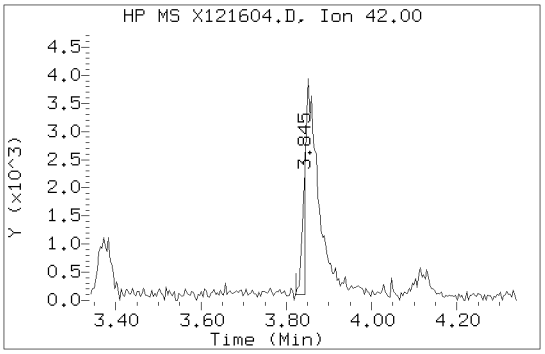
BEFORE

MASS
42
AREA
9396
HEIGHT
3939
27-Dec-2022
16:03
linh
pham



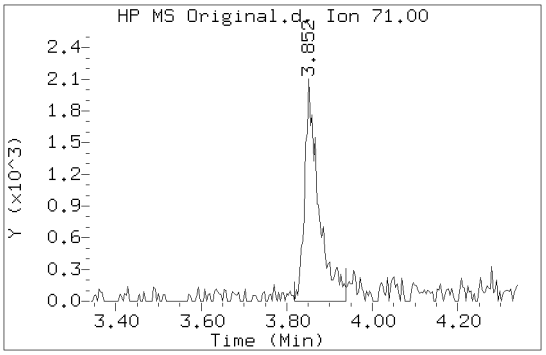
AFTER

MASS
42
AREA
1361
HEIGHT
2190
27-Dec-2022
16:07
linh
pham



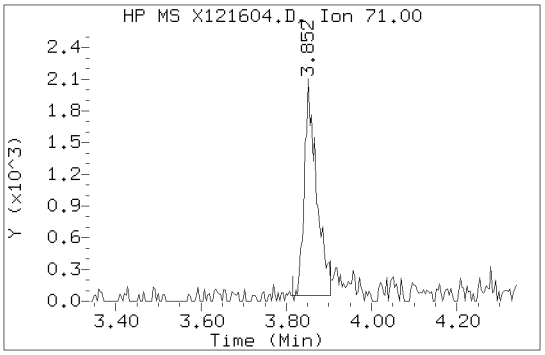
BEFORE

MASS
71
AREA
4781
HEIGHT
2103
27-Dec-2022
16:03
linh
pham



AFTER

MASS
71
AREA
4046
HEIGHT
2046
27-Dec-2022
16:07
linh
pham

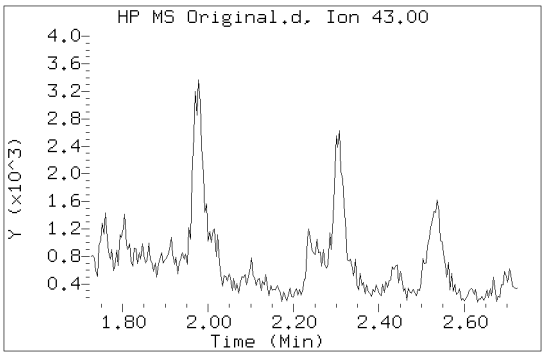


Methyl Acetate (79-20-9)

Reason Code:

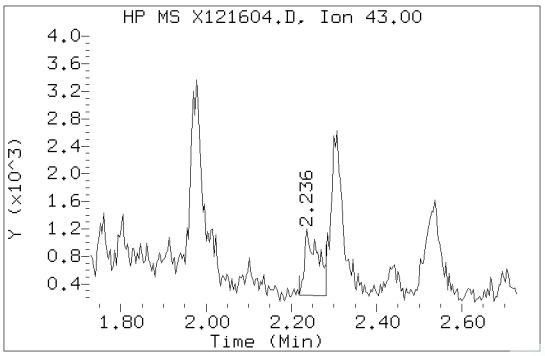
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
2127
HEIGHT
968
27-Dec-2022
16:07
linh
pham



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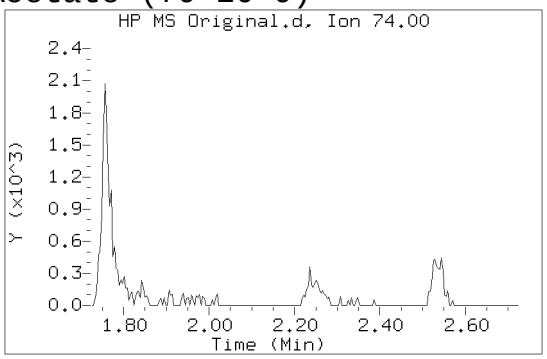
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Methyl Acetate (79-20-9)

BEFORE

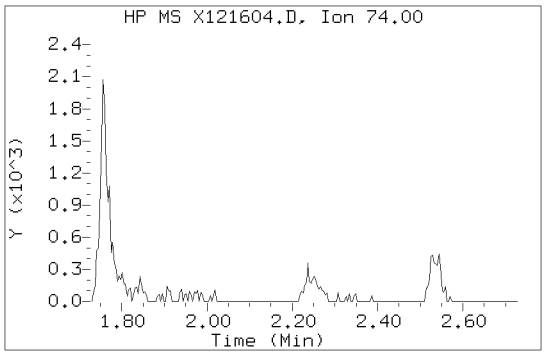
MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

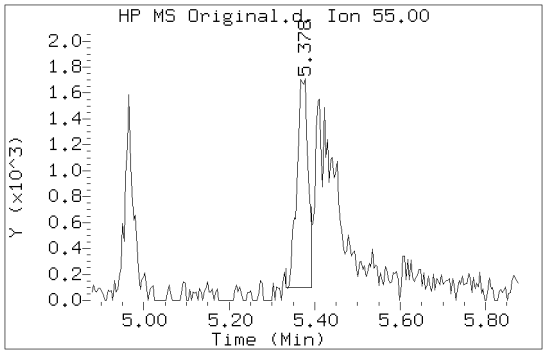
MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Methylcyclohexane (108-87-2)

BEFORE

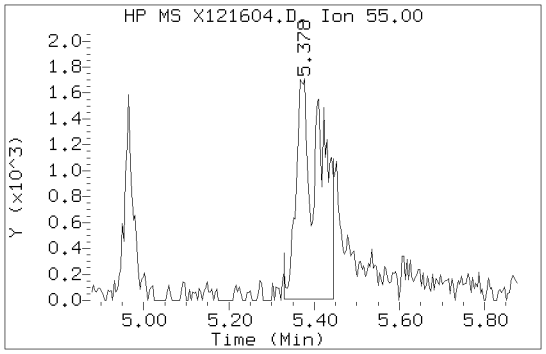
MASS
55
AREA
2998
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



Reason Code:

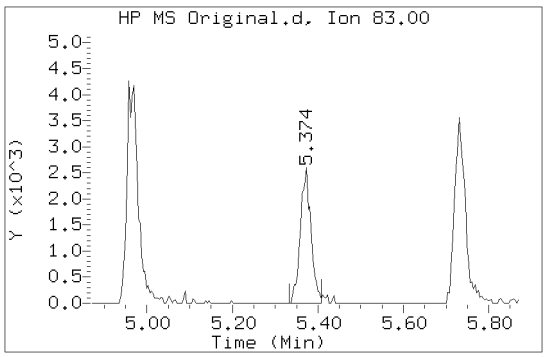
AFTER

MASS
55
AREA
6848
HEIGHT
1699
27-Dec-2022
16:07
linh
pham



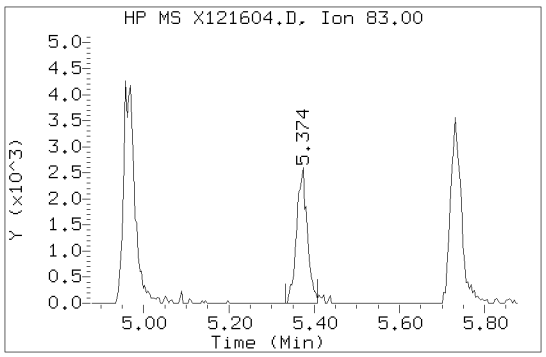
BEFORE

MASS
83
AREA
4577
HEIGHT
2601
27-Dec-2022
16:03
linh
pham



AFTER

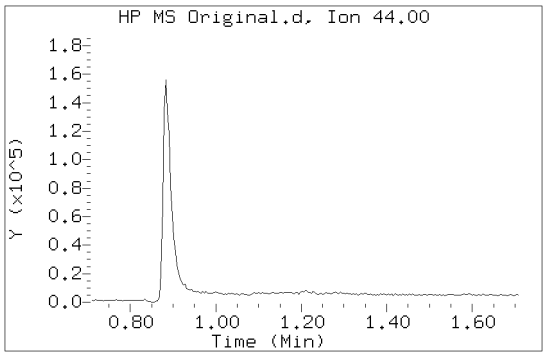
MASS
83
AREA
4577
HEIGHT
2601
27-Dec-2022
16:07
linh
pham



Acetaldehyde (75-07-0)

BEFORE

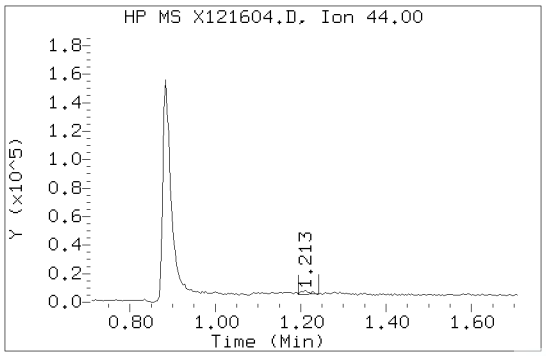
MASS
44
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
44
AREA
3384
HEIGHT
2655
27-Dec-2022
16:07
linh
pham



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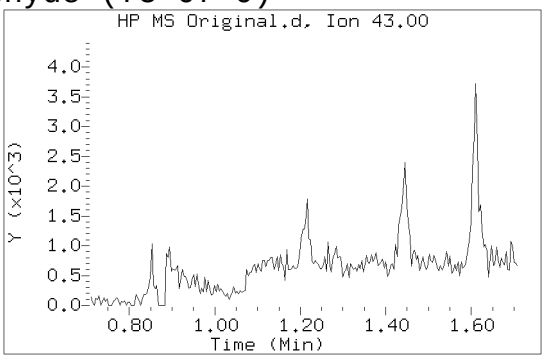
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

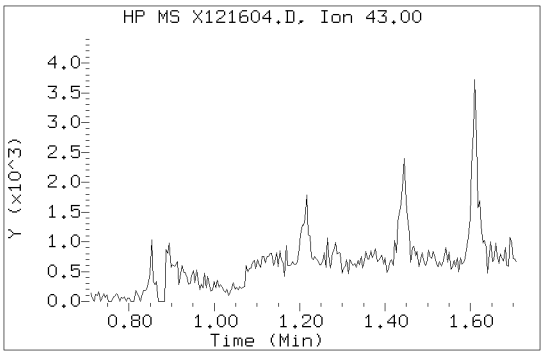
Acetaldehyde (75-07-0)

Reason Code:

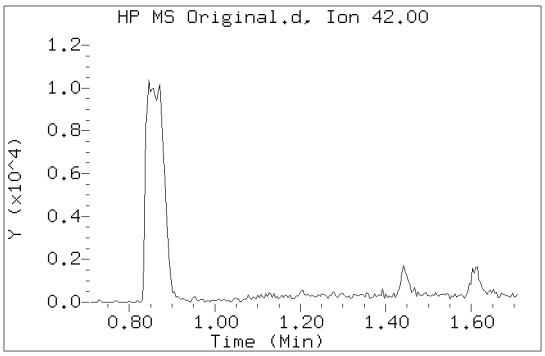
BEFORE
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



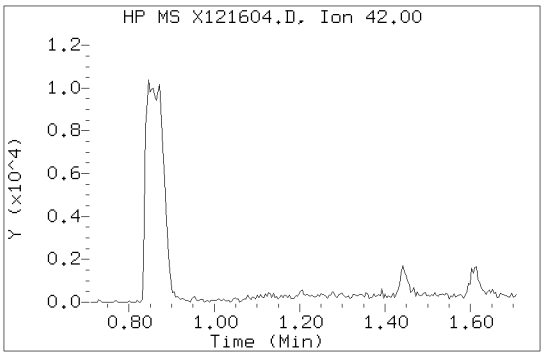
AFTER
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



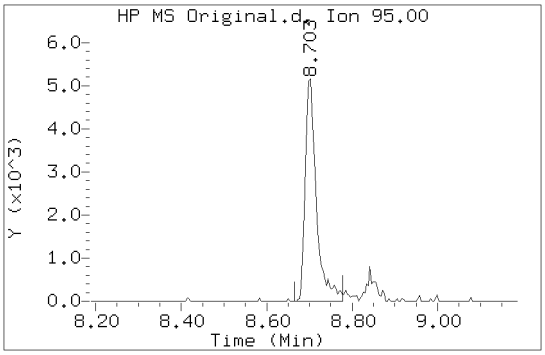
AFTER
MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



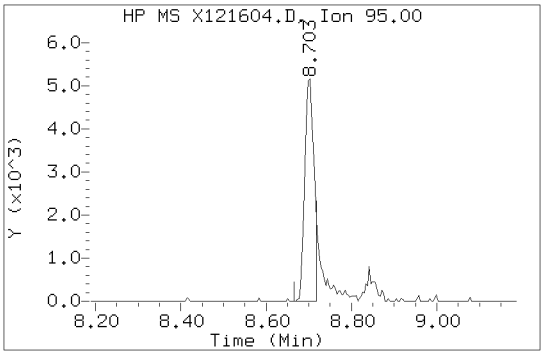
4-Bromofluorobenzene (460-00-4)

Reason Code:

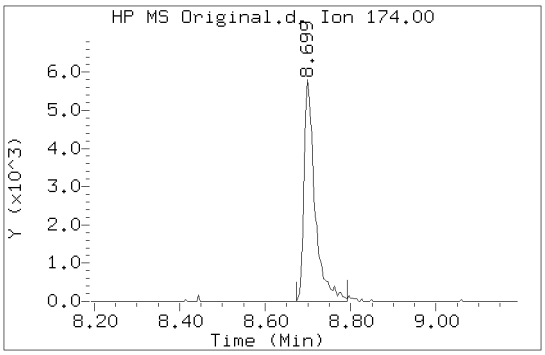
BEFORE
MASS
95
AREA
9514
HEIGHT
5159
27-Dec-2022
16:03
linh
pham



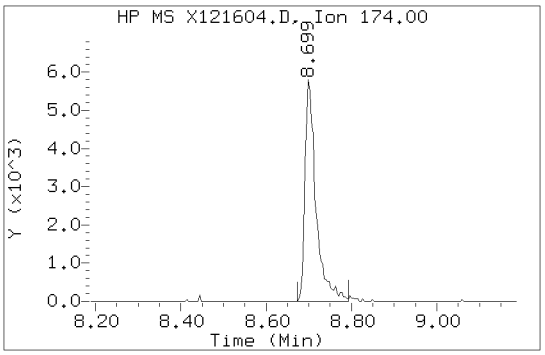
AFTER
MASS
95
AREA
7790
HEIGHT
5159
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
174
AREA
10505
HEIGHT
5802
27-Dec-2022
16:03
linh
pham



AFTER
MASS
174
AREA
10505
HEIGHT
5802
27-Dec-2022
16:07
linh
pham



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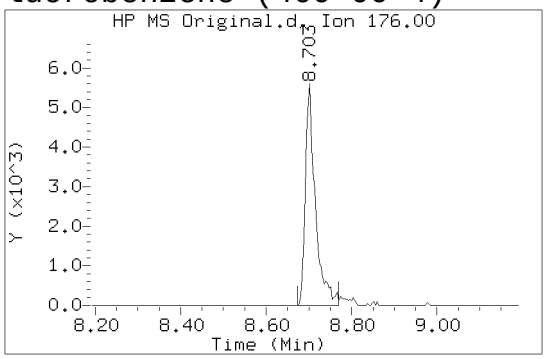
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

4-Bromofluorobenzene (460-00-4)

Reason Code:

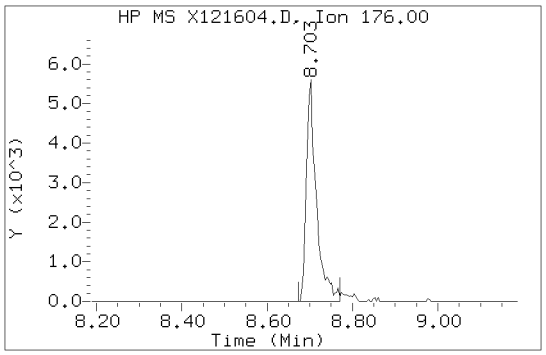
BEFORE

MASS
176
AREA
9226
HEIGHT
5603
27-Dec-2022
16:03
linh
pham



AFTER

MASS
176
AREA
9226
HEIGHT
5603
27-Dec-2022
16:07
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 16-DEC-2022 13:02
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 12:41 Cal File: X121604.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	456374	50.0000	
135 1,4-Dioxane	88	5.610	5.610	(1.343)	1409	40.0000	33.77(M)
140 1,3-Butadiene	54	1.160	1.160	(0.278)	5733	2.00000	1.83
25 Methacrylonitrile	41	3.859	3.859	(0.924)	6388	2.00000	1.97(M)
12 Isobutyl Alcohol	43	4.684	4.684	(1.121)	20629	40.0000	40.18(M)
13 Acetonitrile	39	2.198	2.198	(0.526)	7764	20.0000	18.69
14 Allyl Chloride	41	2.206	2.206	(0.528)	14911	2.00000	1.88
4 Propionitrile	54	3.675	3.675	(0.880)	8651	20.0000	18.57
136 n-Hexane	57	2.768	2.768	(0.663)	5898	2.00000	1.79
72 trans-1,4-Dichloro-2-butene	53	8.920	8.920	(1.163)	2690	2.00000	1.92(M)
194 Acetaldehyde	44	1.212	1.212	(0.290)	5661	8.00000	(M)
23 Chloroprene	53	1.771	1.771	(0.424)	3126	2.00000	2.01(M)
145 alpha-Methylstyrene	118	9.268	9.268	(0.959)	14447	2.00000	1.84
200 Dimethyl Disulfide	94	6.202	6.202	(0.808)	15964	2.00000	1.82
139 Diethyl ether	59	1.756	1.756	(0.420)	6354	2.00000	2.08
130 Ethyl Acetate	43	3.675	3.675	(0.880)	7422	2.00000	2.08(M)
40 Methyl Methacrylate	41	5.617	5.617	(1.345)	6185	2.00000	1.98
49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	6546	2.00000	2.03
132 n-Butanol	56	5.343	5.343	(1.279)	2004	40.0000	74.77(TM)
142 Tetrahydrofuran	42	3.848	3.848	(0.921)	2867	4.00000	2.04(M)

150	Allyl alcohol	57	2.768	2.768 (0.663)	5898	40.0000	33.27
166	1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	35687	2.00000	2.10

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D Page 2
Report Date: 27-Dec-2022 16:07

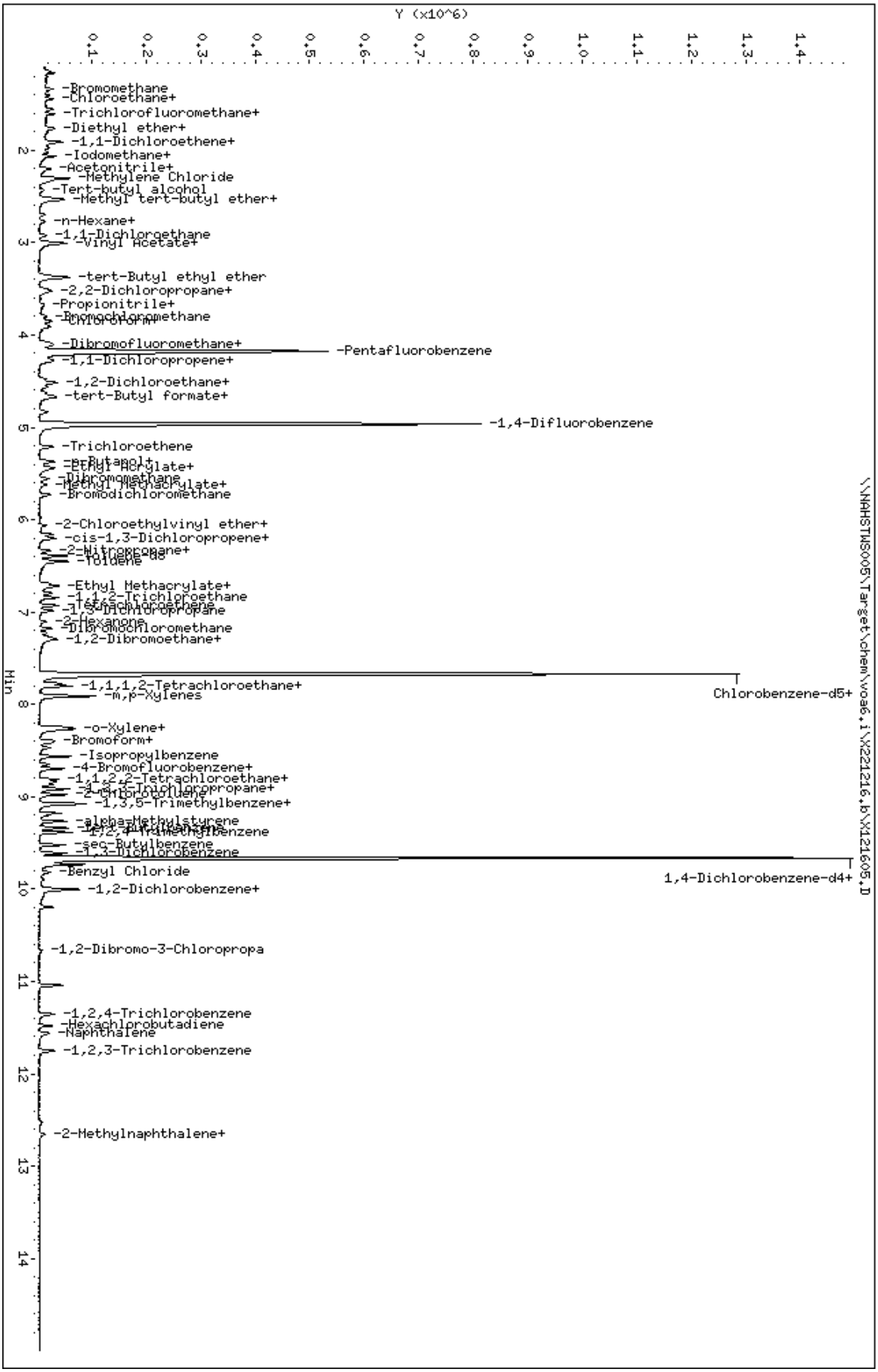
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	131 Methyl Acrylate	55	3.720	3.720	(0.891)	5443	2.00000	1.75(M)
	162 Butyl acrylate	55	8.267	8.267	(1.078)	15015	2.00000	1.77
	2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	6239	2.00000	2.33
	3 Chloromethane	50	1.077	1.077	(0.258)	8057	2.00000	4.07
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	7263	2.00000	1.82
	6 Bromomethane	94	1.340	1.340	(0.321)	5996	2.00000	3.68(M)
	7 Chloroethane	64	1.400	1.400	(0.335)	5667	2.00000	2.04(M)
	8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	10463	2.00000	1.87
	9 Acrolein	56	1.441	1.441	(0.345)	1317	4.00000	6.92(M)
	10 Acetone	43	1.973	1.973	(0.472)	7041	4.00000	5.46(M)
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	6862	2.00000	1.98
	15 Iodomethane	142	2.022	2.022	(0.484)	8702	4.00000	5.23
	16 Acrylonitrile	53	2.554	2.554	(0.611)	4557	4.00000	3.87(M)
	17 Methylene Chloride	84	2.303	2.303	(0.551)	9194	2.00000	1.93(M)
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	23231	2.00000	2.04
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	34948	4.00000	3.85
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	7113	2.00000	1.83
	21 Vinyl Acetate	43	3.008	3.008	(0.720)	38835	4.00000	3.90
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	12778	2.00000	1.87
	24 2-Butanone	43	3.604	3.604	(0.863)	5418	4.00000	6.89(M)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	11048	2.00000	1.91
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	9675	2.00000	2.05
	28 Chloroform	83	3.908	3.908	(0.935)	15581	2.00000	2.04
	29 Bromochloromethane	128	3.803	3.803	(0.910)	5134	2.00000	1.98
$	30 Dibromofluoromethane	113	4.106	4.106	(0.983)	9050	2.00000	1.90
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	10962	2.00000	1.81
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	9042	2.00000	1.86
	33 1,2-Dichloroethane	62	4.560	4.560	(0.918)	10812	2.00000	1.92
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	11092	2.00000	2.13(M)
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	9783	2.00000	2.37
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	684444	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	32394	2.00000	1.98
	38 Trichloroethene	130	5.216	5.216	(1.051)	9277	2.00000	2.00
	39 Bromodichloromethane	83	5.733	5.733	(1.155)	11961	2.00000	1.94
	41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	6648	4.00000	3.80
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	8129	2.00000	1.86(M)
	44 Dibromomethane	93	5.553	5.553	(1.119)	6110	2.00000	2.06
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14771	4.00000	4.26
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	13738	2.00000	1.90
*	47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	647809	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.833)	31289	2.00000	1.95
	50 Toluene	91	6.453	6.453	(0.841)	35620	2.00000	1.98
	51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	10969	2.00000	1.83
	52 2-Hexanone	43	7.105	7.105	(0.926)	9314	4.00000	3.95
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	7537	2.00000	2.09
	54 1,3-Dichloropropane	76	6.989	6.989	(0.911)	14049	2.00000	1.98
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	10210	2.00000	1.96
	56 Tetrachloroethene	164	6.929	6.929	(0.903)	7331	2.00000	1.97
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	8477	2.00000	1.88
	58 1-Chlorohexane	55	7.697	7.697	(1.550)	5855	2.00000	1.77(MH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	24558	2.00000	1.93
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.013)	9378	2.00000	1.98

61 Ethylbenzene	106	7.802	7.802 (1.017)	11791	2.00000	1.97
62 m,p-Xylenes	106	7.911	7.911 (1.031)	29170	4.00000	3.78

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.249	8.249	(1.075)	14764	2.00000	1.93
	64 Styrene	104	8.271	8.271	(1.078)	22967	2.00000	1.80
	66 Bromoform	173	8.417	8.417	(1.097)	6949	2.00000	1.93(T)
	67 Isopropylbenzene	105	8.563	8.563	(1.116)	32641	2.00000	1.87
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	11741	2.00000	2.08
$	69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	13631	2.00000	2.33
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	352851	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	7514	2.00000	1.91
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	34981	2.00000	1.78
	74 Bromobenzene	156	8.815	8.815	(0.912)	11721	2.00000	2.02
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	27917	2.00000	1.93
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	26853	2.00000	2.09
	77 4-Chlorotoluene	91	9.077	9.077	(0.939)	28173	2.00000	1.92
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	22104	2.00000	1.87
	79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	28377	2.00000	1.86
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	27643	2.00000	1.75
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	24966	2.00000	1.77
	83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	18708	2.00000	1.94
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	20552	2.00000	1.96
	86 Benzyl Chloride	91	9.819	9.819	(1.280)	12783	2.00000	3.88
	87 n-Butylbenzene	91	10.003	10.003	(1.035)	19853	2.00000	3.18(M)
	88 1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	18921	2.00000	1.91
	89 1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	1619	2.00000	1.88(M)
	90 1,2,4-Trichlorobenzene	180	11.352	11.352	(1.175)	11764	2.00000	1.88(M)
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	3970	2.00000	1.39
	92 Naphthalene	128	11.559	11.559	(1.196)	26250	2.00000	1.84(M)
	93 1,2,3-Trichlorobenzene	180	11.750	11.750	(1.216)	11288	2.00000	1.88
M	94 1,2-Dichloroethylene (total)	96				16788	4.00000	
M	95 Xylenes (total)	106				43934	6.00000	
	141 Cyclohexane	56	4.125	4.125	(0.987)	7375	2.00000	2.82(H)
	138 Freon TF	101	1.917	1.917	(0.459)	6025	2.00000	1.79
	147 Methylcyclohexane	55	5.373	5.373	(1.082)	16016	2.00000	1.91(M)
	146 Methyl Acetate	43	2.247	2.247	(0.538)	4149	2.00000	2.02
	148 Tert-Butyl alcohol	59	2.434	2.434	(0.583)	12015	40.0000	38.02(a)
	149 Isopropyl Alcohol	45	2.101	2.101	(0.503)	5607	40.0000	33.97

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Bromomethane (74-83-9)

BEFORE

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27-Dec-2022
16:03
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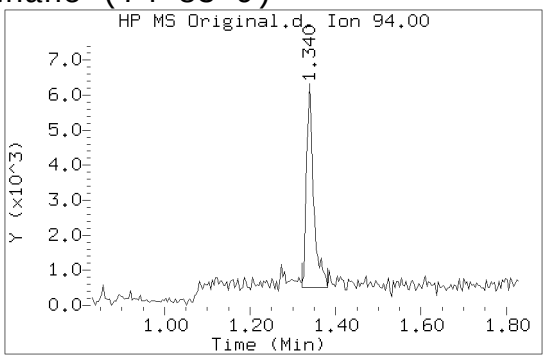

BEFORE

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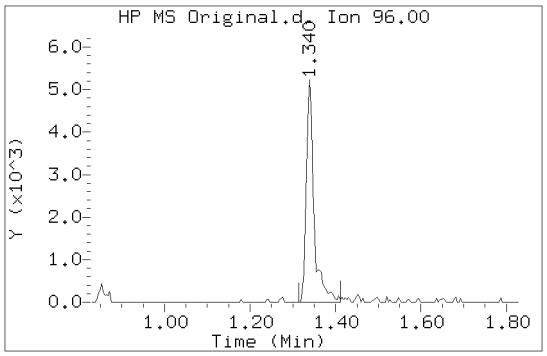

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AFTER

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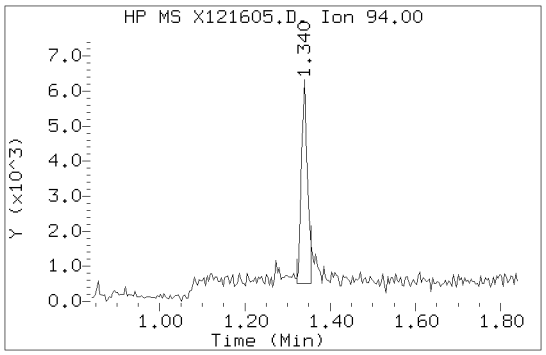

AFTER

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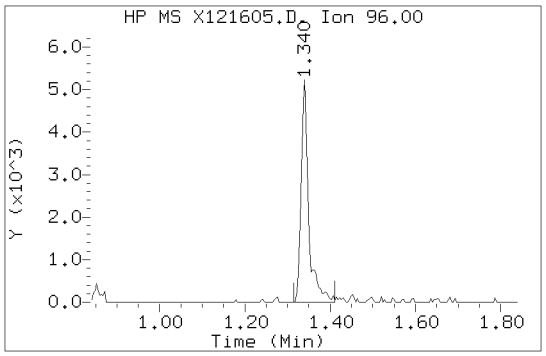

Chloroethane (75-00-3)

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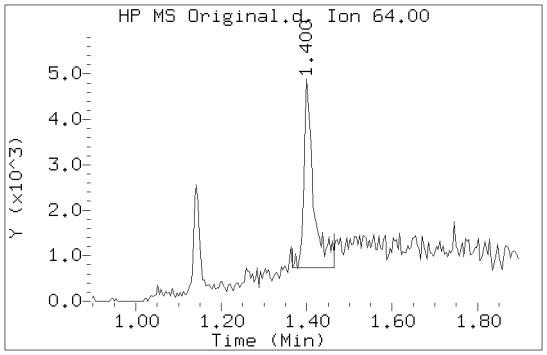

BEFORE

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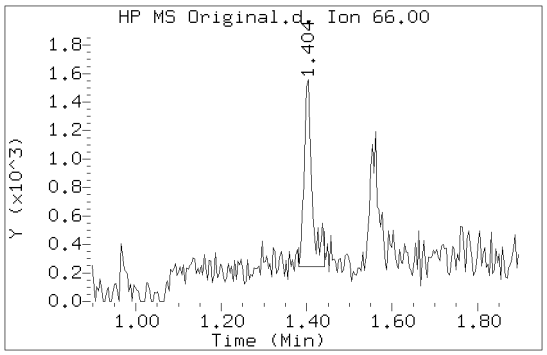

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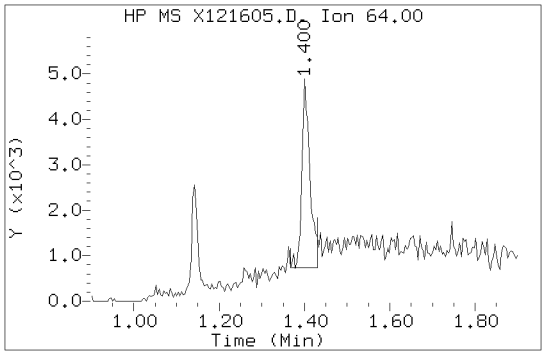

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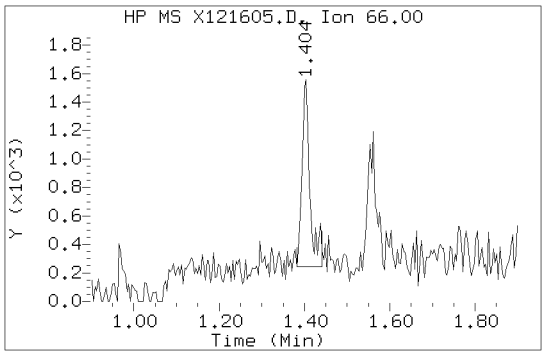

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Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

BEFORE
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AREA
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HEIGHT
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27-Dec-2022
16:03
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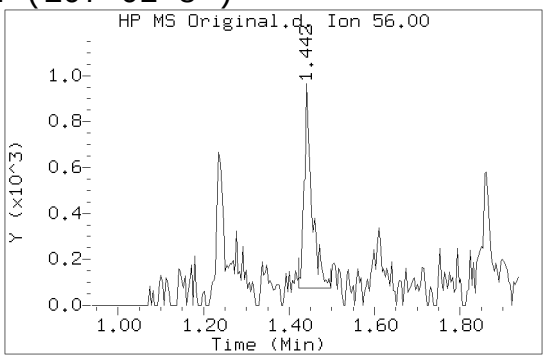
pham



AFTER
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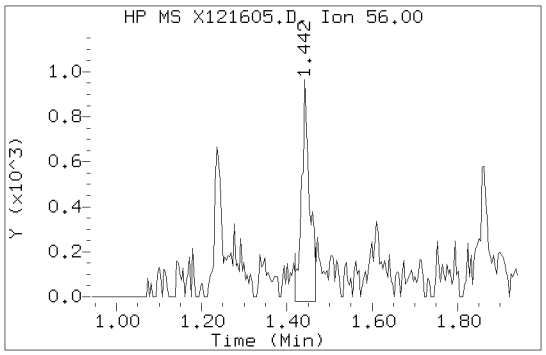

BEFORE
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16:03
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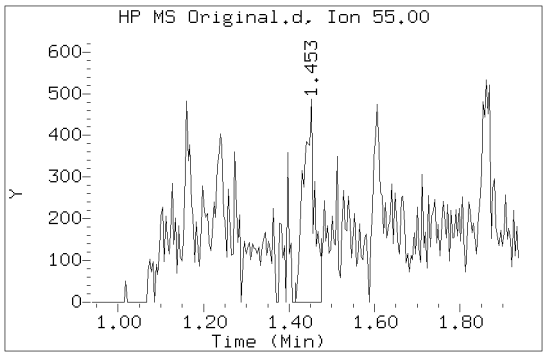

AFTER
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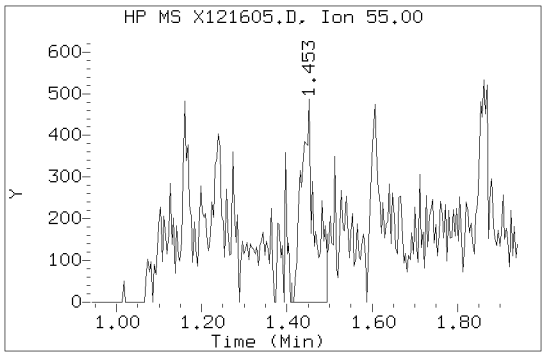

Acetone (67-64-1)

Reason Code:

BEFORE
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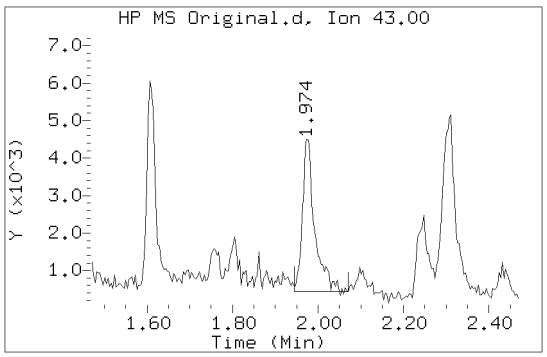

AFTER
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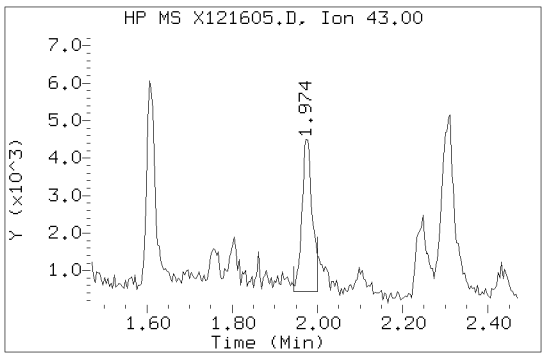

BEFORE
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AREA
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1717
27-Dec-2022
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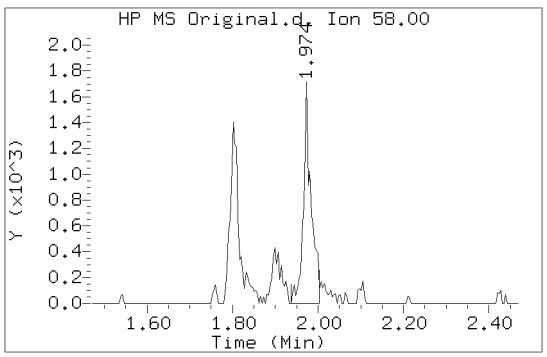

AFTER
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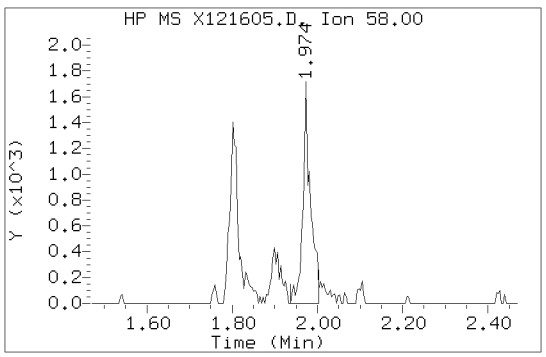
27-Dec-2022
16:07
linh
pham

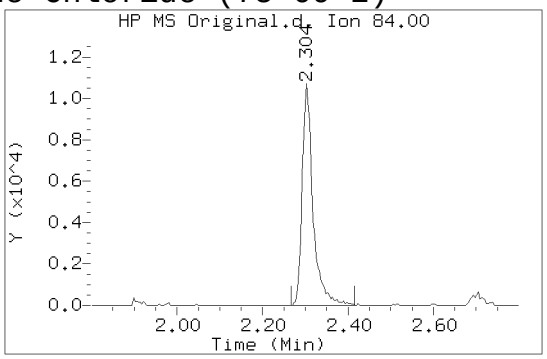


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Methylene Chloride (75-09-2)

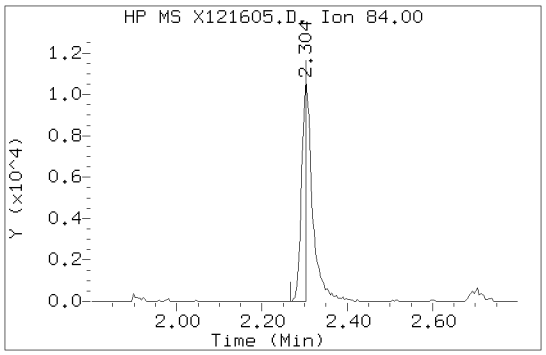
BEFORE

MASS
84
AREA
19299
HEIGHT
10710
27-Dec-2022
16:03
linh
pham



AFTER

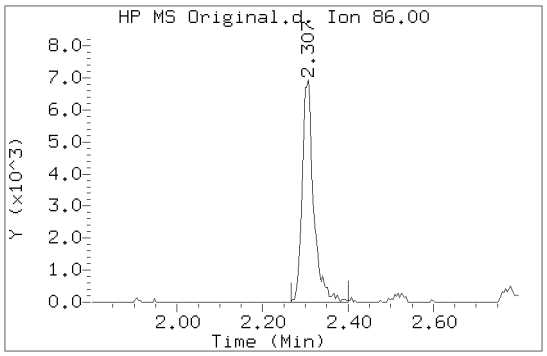
MASS
84
AREA
9194
HEIGHT
10710
27-Dec-2022
16:07
linh
pham



Reason Code:

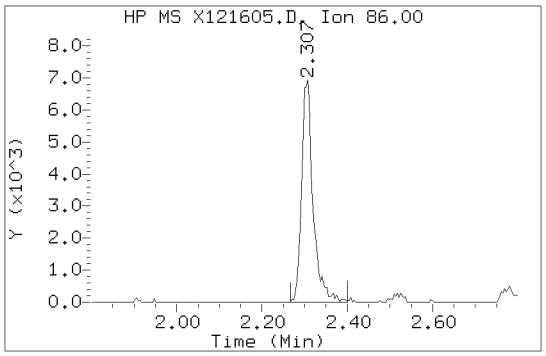
BEFORE

MASS
86
AREA
13231
HEIGHT
6936
27-Dec-2022
16:03
linh
pham



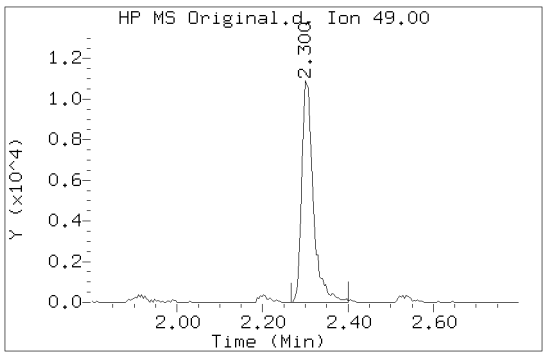
AFTER

MASS
86
AREA
13231
HEIGHT
6936
27-Dec-2022
16:07
linh
pham



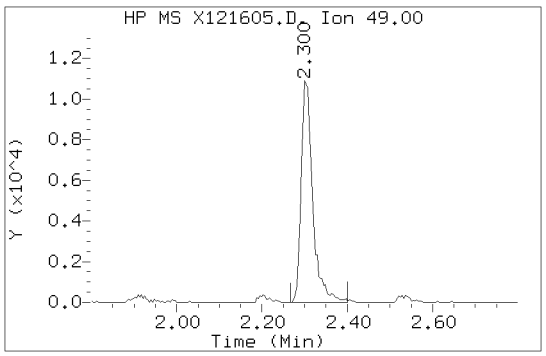
BEFORE

MASS
49
AREA
21067
HEIGHT
10905
27-Dec-2022
16:03
linh
pham



AFTER

MASS
49
AREA
21067
HEIGHT
10905
27-Dec-2022
16:07
linh
pham

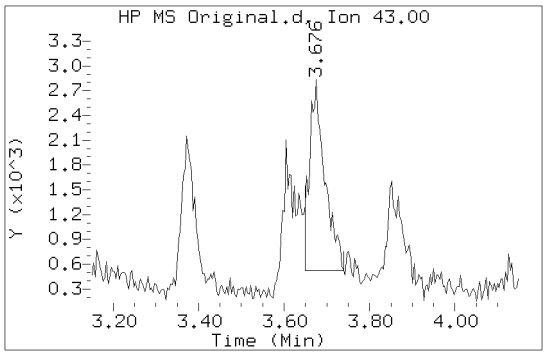


2-Butanone (78-93-3)

Reason Code:

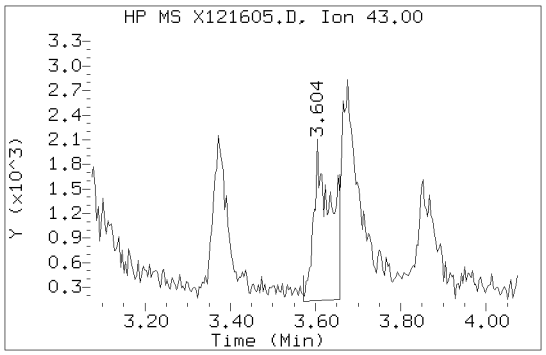
BEFORE

MASS
43
AREA
5778
HEIGHT
2307
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
5418
HEIGHT
1969
27-Dec-2022
16:07
linh
pham



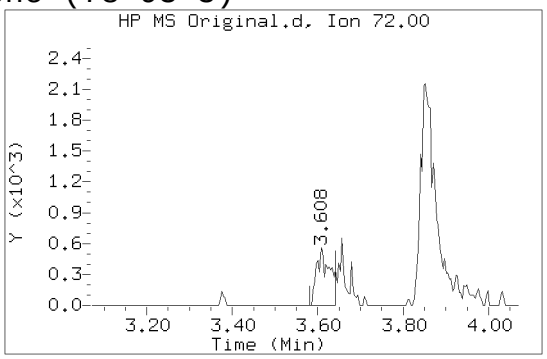
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

2-Butanone (78-93-3)

Reason Code:

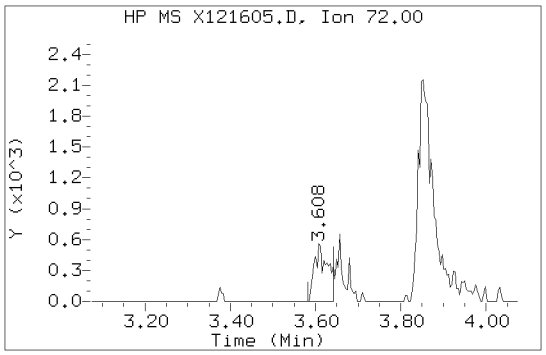
BEFORE

MASS
72
AREA
1209
HEIGHT
563
27-Dec-2022
16:03
linh
pham



AFTER

MASS
72
AREA
1209
HEIGHT
563
27-Dec-2022
16:07
linh
pham

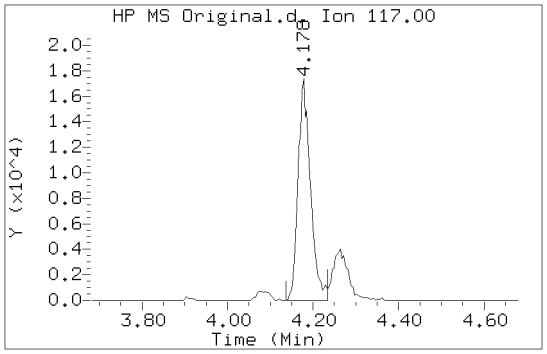


Carbon Tetrachloride (56-23-5)

Reason Code:

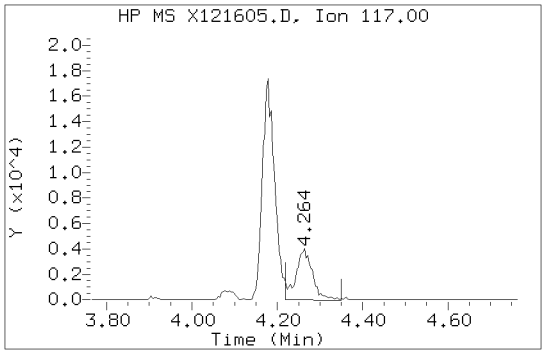
BEFORE

MASS
117
AREA
35555
HEIGHT
17376
27-Dec-2022
16:03
linh
pham



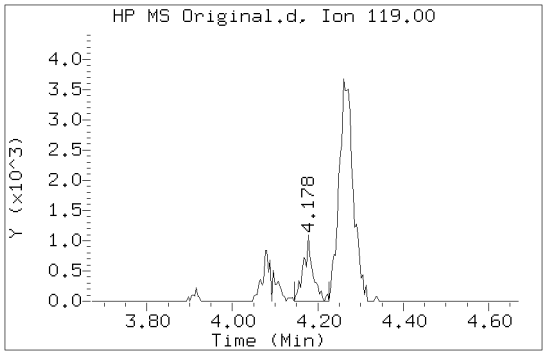
AFTER

MASS
117
AREA
11092
HEIGHT
4036
27-Dec-2022
16:07
linh
pham



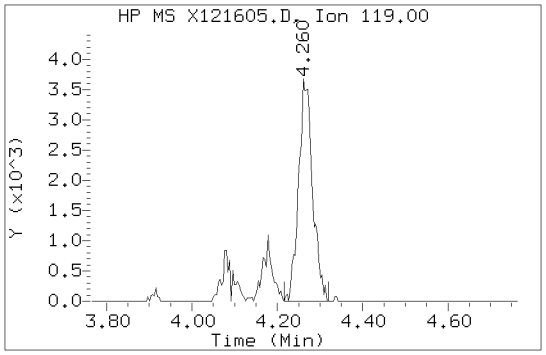
BEFORE

MASS
119
AREA
1692
HEIGHT
1100
27-Dec-2022
16:03
linh
pham



AFTER

MASS
119
AREA
8494
HEIGHT
3676
27-Dec-2022
16:07
linh
pham

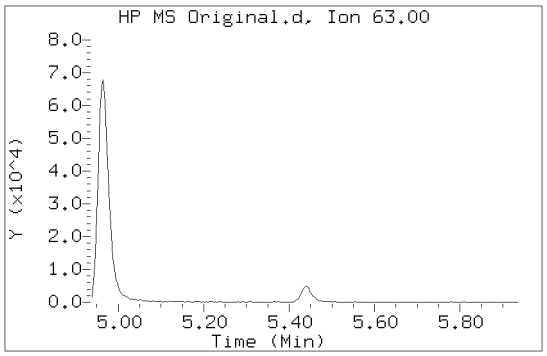


1,2-Dichloropropane (78-87-5)

Reason Code:

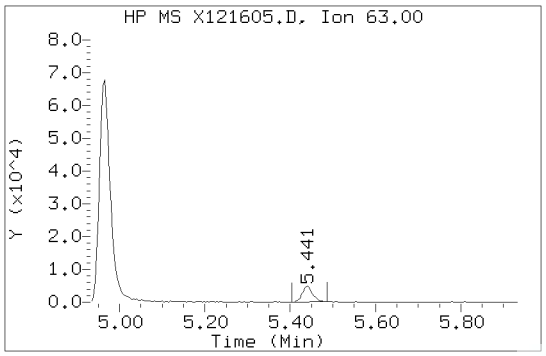
BEFORE

MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
63
AREA
8129
HEIGHT
4705
27-Dec-2022
16:07
linh
pham



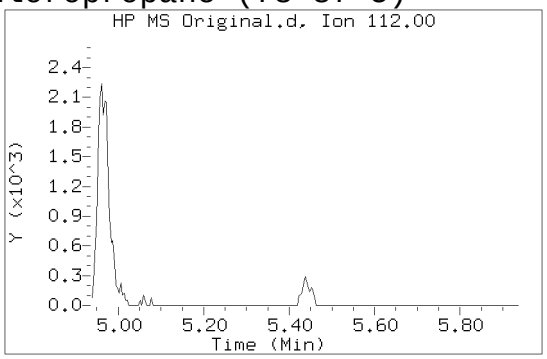
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichloropropane (78-87-5)

Reason Code:

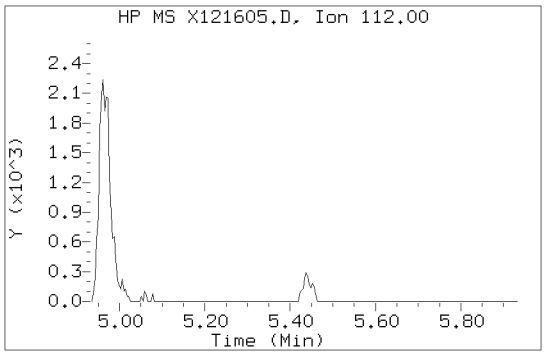
BEFORE

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

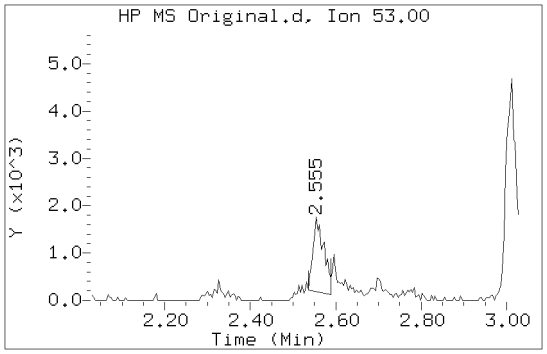


Acrylonitrile (107-13-1)

Reason Code:

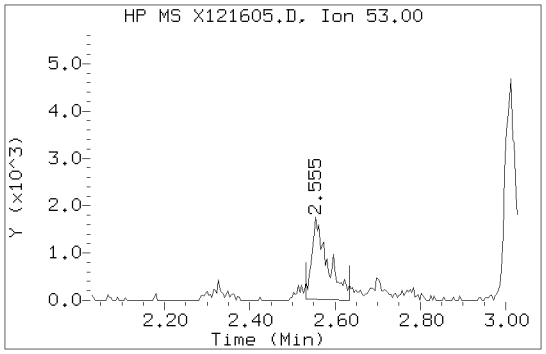
BEFORE

MASS
53
AREA
2810
HEIGHT
1577
27-Dec-2022
16:03
linh
pham



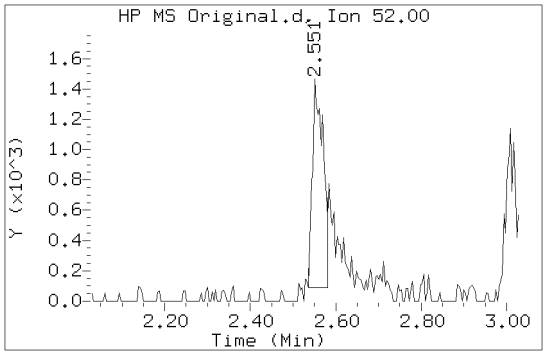
AFTER

MASS
53
AREA
4557
HEIGHT
1735
27-Dec-2022
16:07
linh
pham



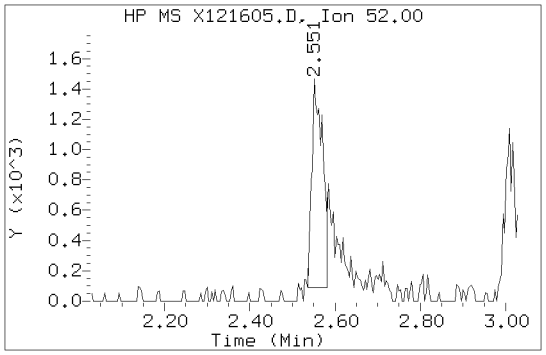
BEFORE

MASS
52
AREA
2408
HEIGHT
1379
27-Dec-2022
16:03
linh
pham



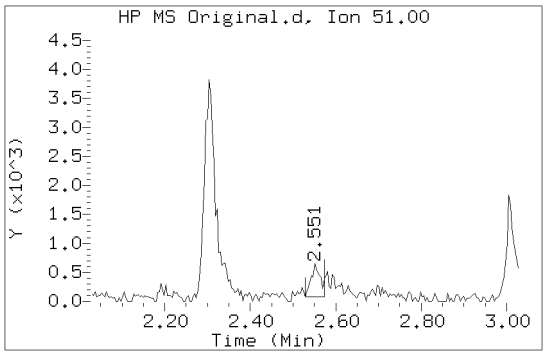
AFTER

MASS
52
AREA
2408
HEIGHT
1379
27-Dec-2022
16:07
linh
pham



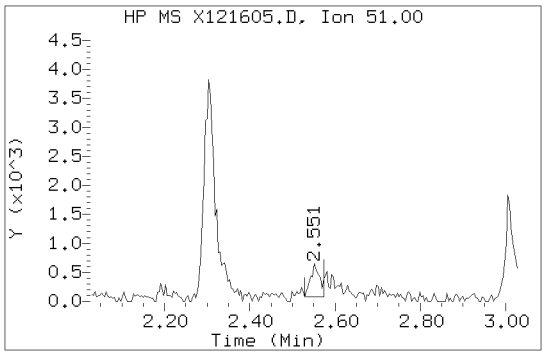
BEFORE

MASS
51
AREA
876
HEIGHT
575
27-Dec-2022
16:03
linh
pham



AFTER

MASS
51
AREA
876
HEIGHT
575
27-Dec-2022
16:07
linh
pham

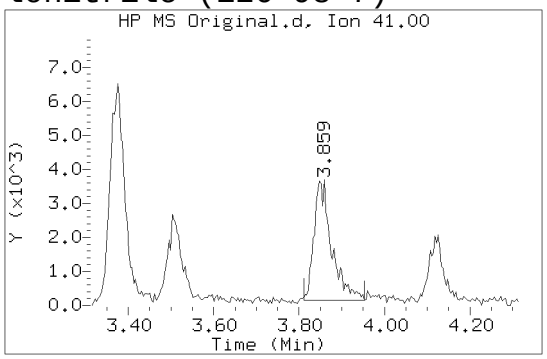


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

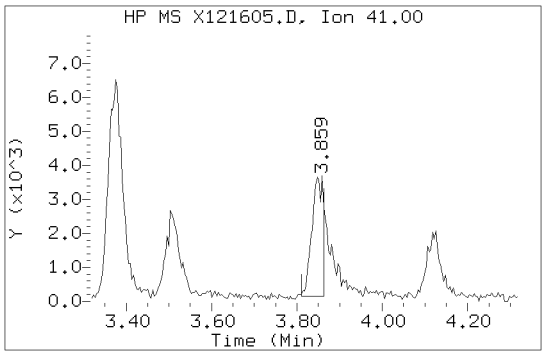
Methacrylonitrile (126-98-7)

Reason Code:

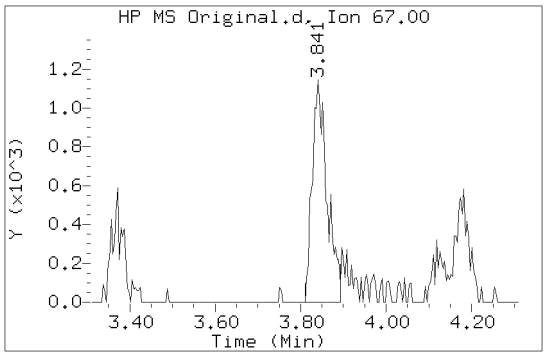
BEFORE
MASS
41
AREA
10013
HEIGHT
3544
27-Dec-2022
16:03
linh
pham



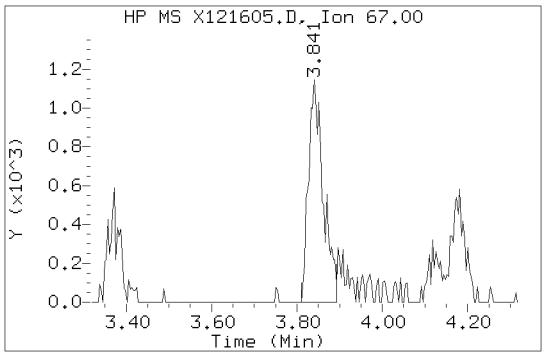
AFTER
MASS
41
AREA
6388
HEIGHT
3544
27-Dec-2022
16:07
linh
pham



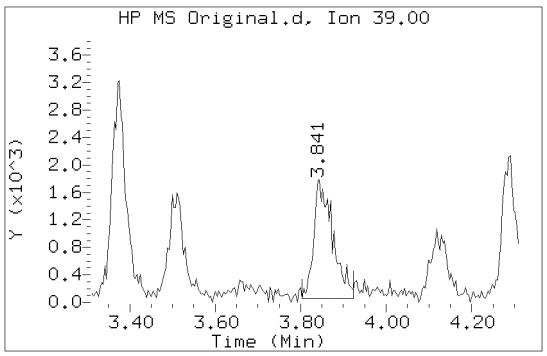
BEFORE
MASS
67
AREA
2751
HEIGHT
1145
27-Dec-2022
16:03
linh
pham



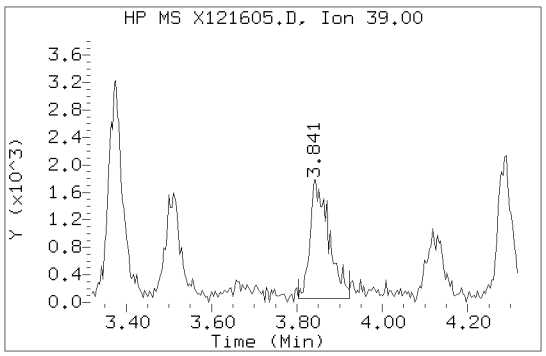
AFTER
MASS
67
AREA
2751
HEIGHT
1145
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
39
AREA
5310
HEIGHT
1724
27-Dec-2022
16:03
linh
pham



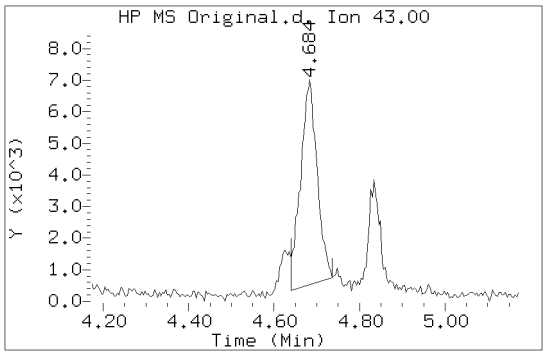
AFTER
MASS
39
AREA
5310
HEIGHT
1724
27-Dec-2022
16:07
linh
pham



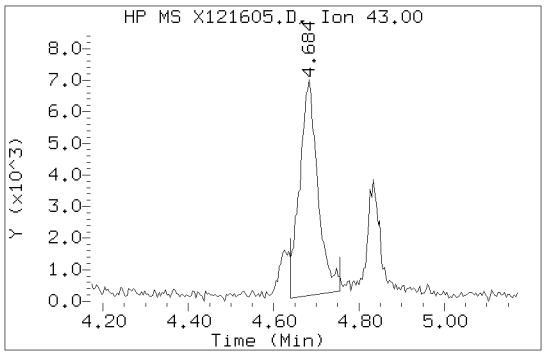
Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
43
AREA
17811
HEIGHT
6479
27-Dec-2022
16:03
linh
pham



AFTER
MASS
43
AREA
20629
HEIGHT
6832
27-Dec-2022
16:07
linh
pham



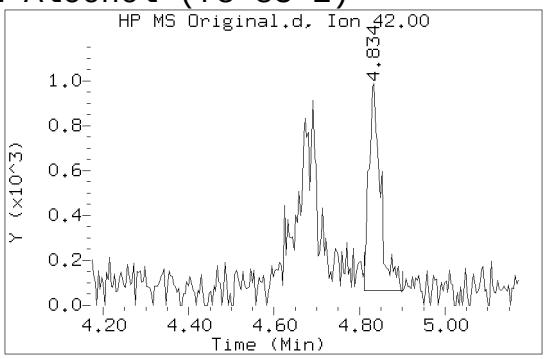
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

Reason Code:

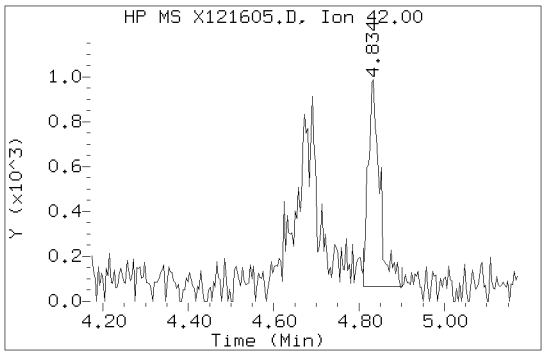
BEFORE

MASS
42
AREA
1728
HEIGHT
920
27-Dec-2022
16:03
linh
pham



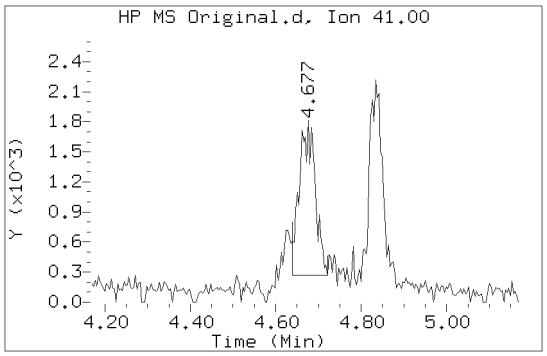
AFTER

MASS
42
AREA
1728
HEIGHT
920
27-Dec-2022
16:07
linh
pham



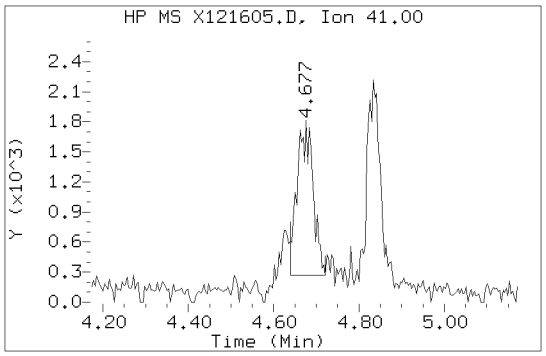
BEFORE

MASS
41
AREA
4067
HEIGHT
1547
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
4067
HEIGHT
1547
27-Dec-2022
16:07
linh
pham

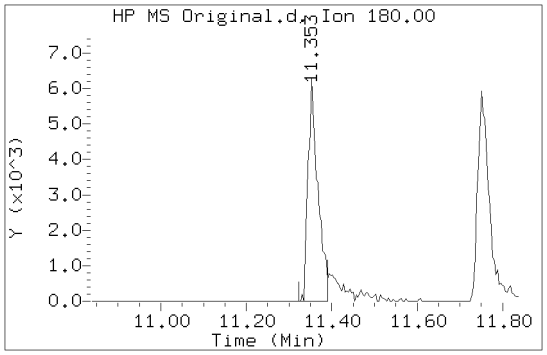


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

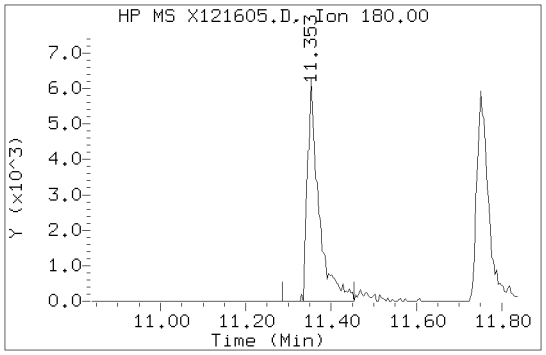
BEFORE

MASS
180
AREA
10131
HEIGHT
6269
27-Dec-2022
16:03
linh
pham



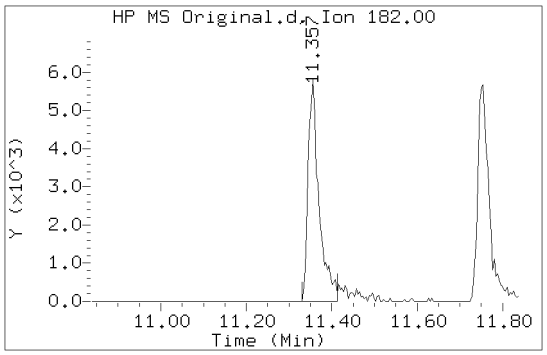
AFTER

MASS
180
AREA
11764
HEIGHT
6269
27-Dec-2022
16:07
linh
pham



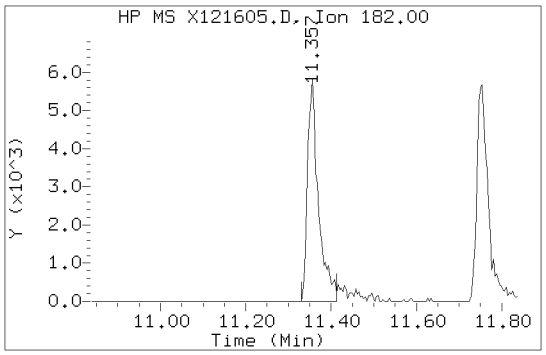
BEFORE

MASS
182
AREA
10317
HEIGHT
5807
27-Dec-2022
16:03
linh
pham



AFTER

MASS
182
AREA
10317
HEIGHT
5807
27-Dec-2022
16:07
linh
pham



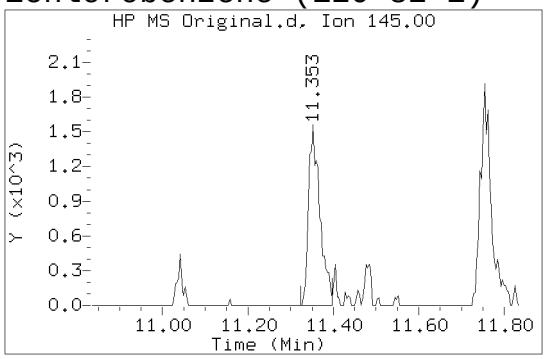
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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

Reason Code:

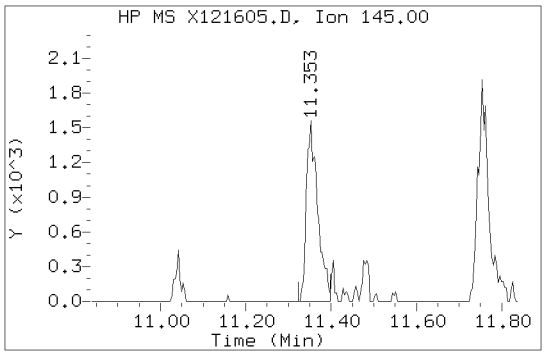
BEFORE

MASS
145
AREA
2887
HEIGHT
1565
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
2887
HEIGHT
1565
27-Dec-2022
16:07
linh
pham

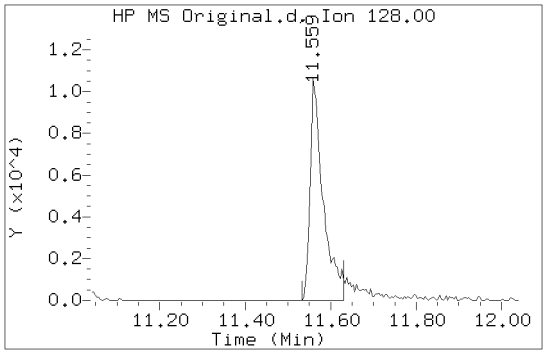


Naphthalene (91-20-3)

Reason Code:

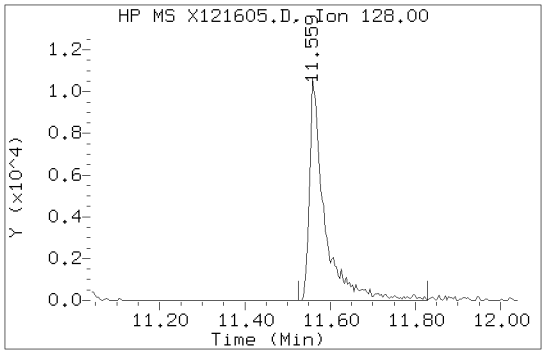
BEFORE

MASS
128
AREA
22581
HEIGHT
10616
27-Dec-2022
16:03
linh
pham



AFTER

MASS
128
AREA
26250
HEIGHT
10616
27-Dec-2022
16:07
linh
pham

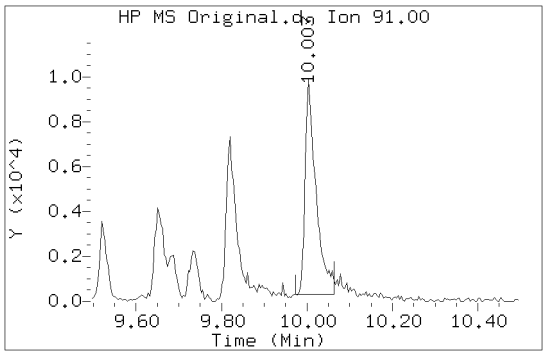


n-Butylbenzene (104-51-8)

Reason Code:

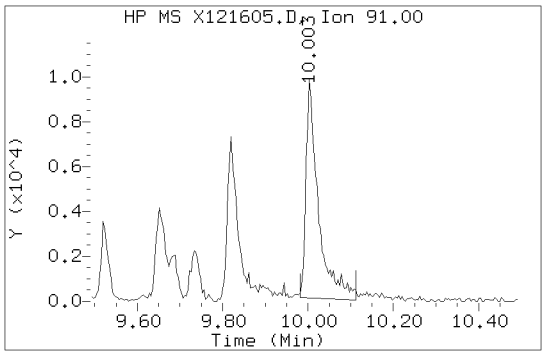
BEFORE

MASS
91
AREA
17181
HEIGHT
9558
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
19853
HEIGHT
9720
27-Dec-2022
16:07
linh
pham



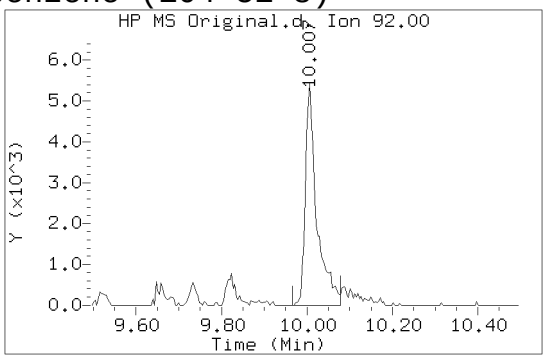
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)

Reason Code:

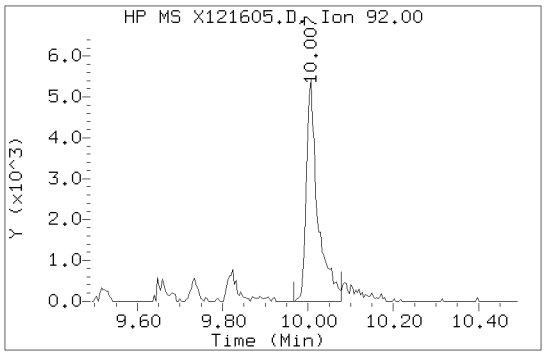
BEFORE

MASS
92
AREA
10185
HEIGHT
5422
27-Dec-2022
16:03
linh
pham



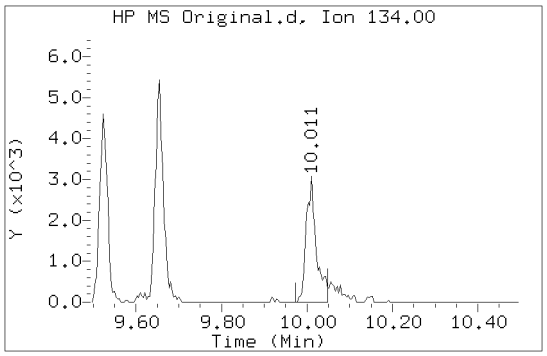
AFTER

MASS
92
AREA
10185
HEIGHT
5422
27-Dec-2022
16:07
linh
pham



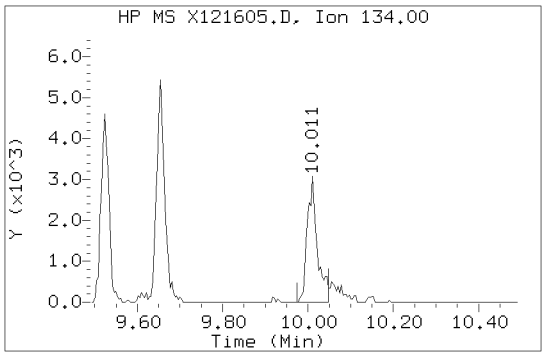
BEFORE

MASS
134
AREA
5059
HEIGHT
3076
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
5059
HEIGHT
3076
27-Dec-2022
16:07
linh
pham

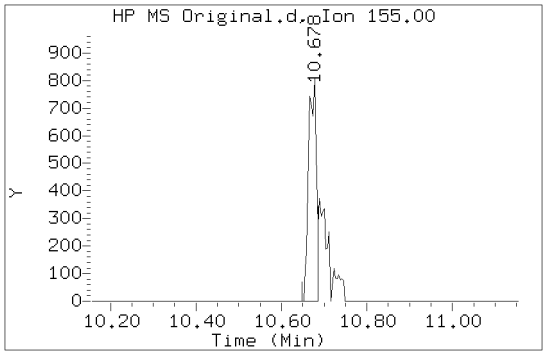


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

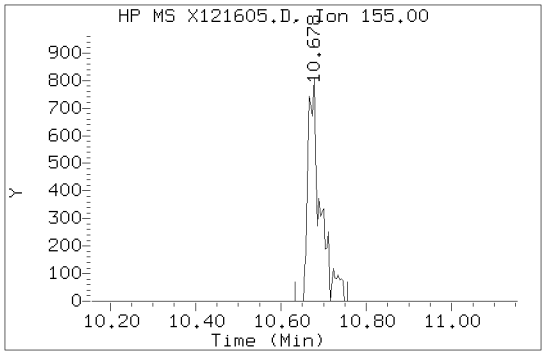
BEFORE

MASS
155
AREA
1026
HEIGHT
806
27-Dec-2022
16:03
linh
pham



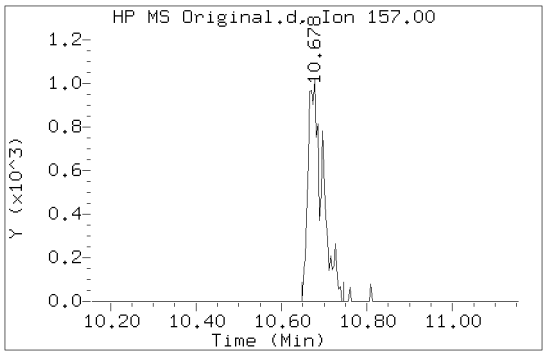
AFTER

MASS
155
AREA
1619
HEIGHT
806
27-Dec-2022
16:07
linh
pham



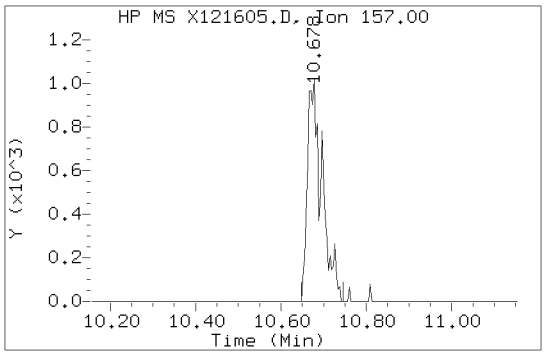
BEFORE

MASS
157
AREA
2422
HEIGHT
1016
27-Dec-2022
16:03
linh
pham



AFTER

MASS
157
AREA
2422
HEIGHT
1016
27-Dec-2022
16:07
linh
pham



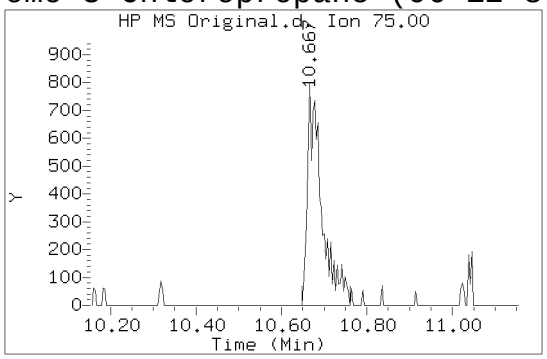
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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

Reason Code:

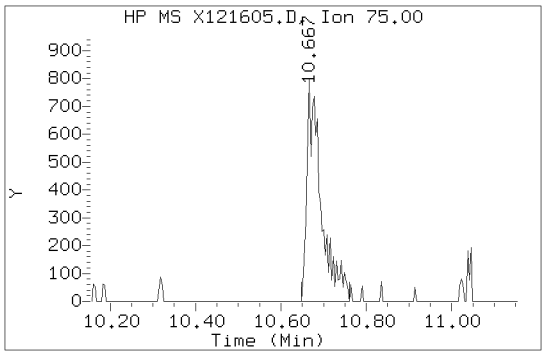
BEFORE

MASS
75
AREA
1843
HEIGHT
796
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
1843
HEIGHT
796
27-Dec-2022
16:07
linh
pham

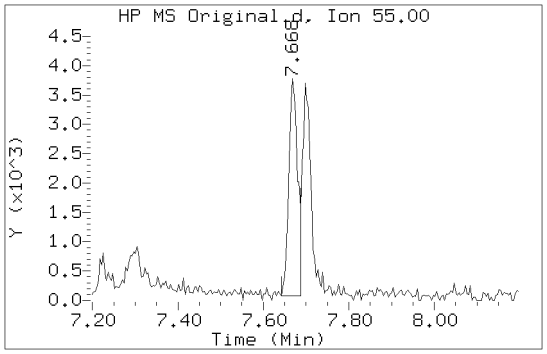


1-Chlorohexane (544-10-5)

Reason Code:

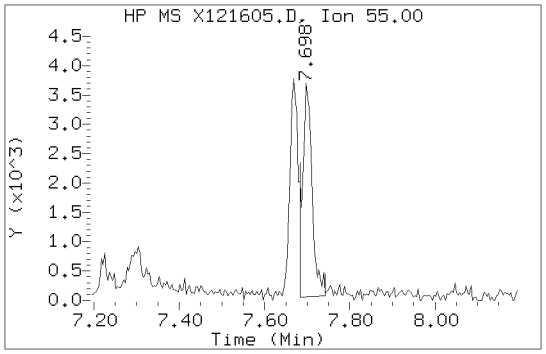
BEFORE

MASS
55
AREA
5357
HEIGHT
3703
27-Dec-2022
16:03
linh
pham



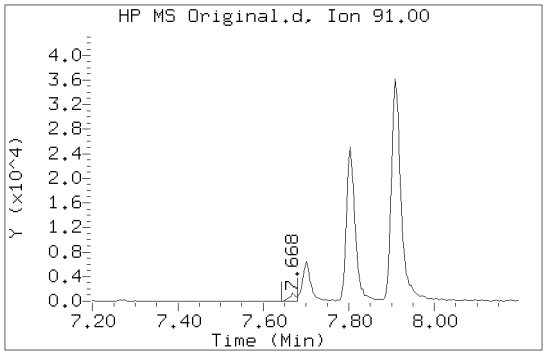
AFTER

MASS
55
AREA
5855
HEIGHT
3647
27-Dec-2022
16:07
linh
pham



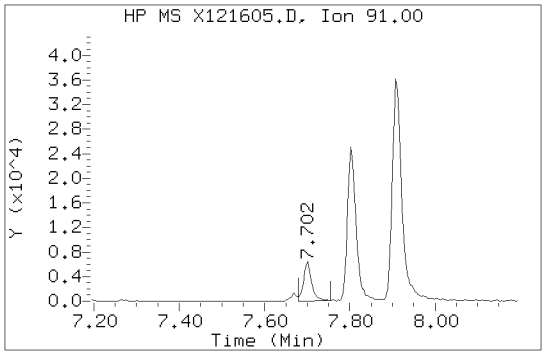
BEFORE

MASS
91
AREA
1356
HEIGHT
1324
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
8682
HEIGHT
6440
27-Dec-2022
16:07
linh
pham

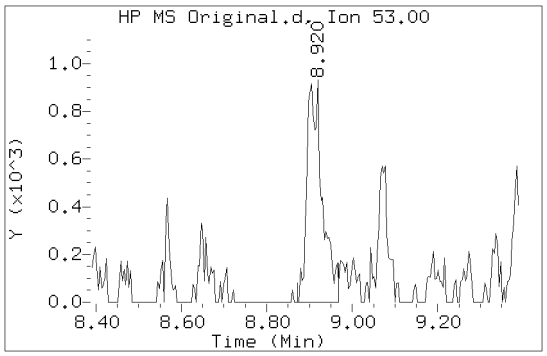


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

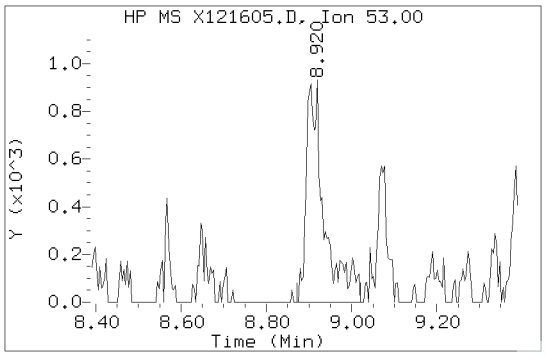
BEFORE

MASS
53
AREA
2313
HEIGHT
932
27-Dec-2022
16:03
linh
pham



AFTER

MASS
53
AREA
2690
HEIGHT
932
27-Dec-2022
16:07
linh
pham



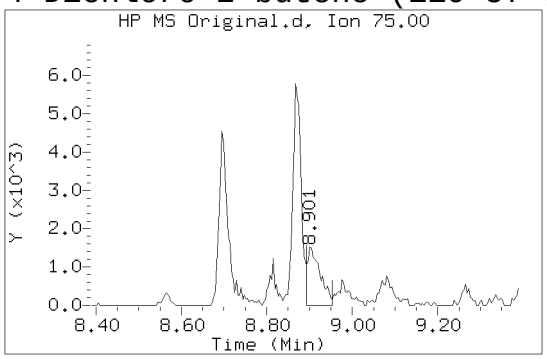
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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

Reason Code:

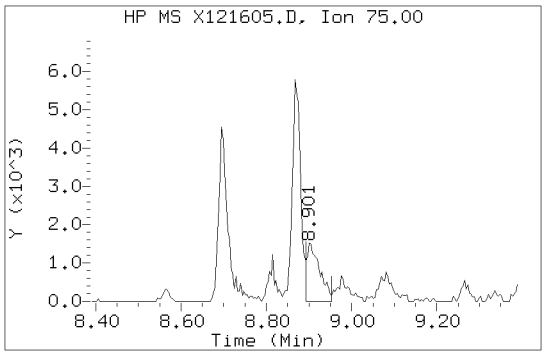
BEFORE

MASS
75
AREA
3228
HEIGHT
1526
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
3228
HEIGHT
1526
27-Dec-2022
16:07
linh
pham

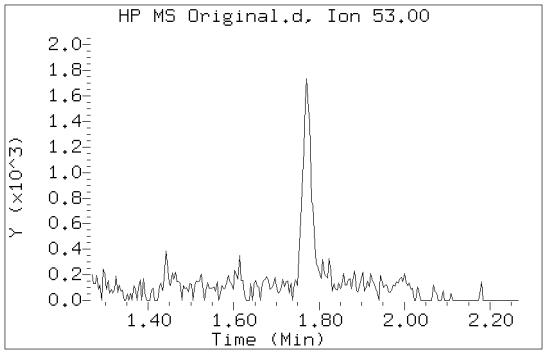


Chloroprene (126-99-8)

Reason Code:

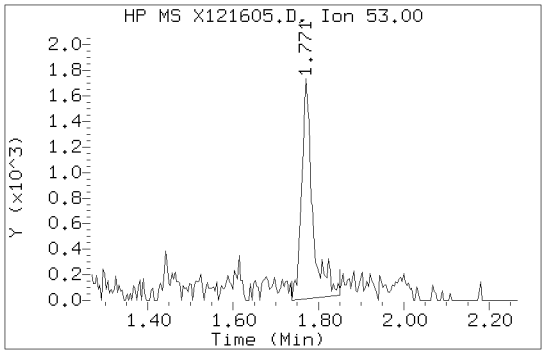
BEFORE

MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



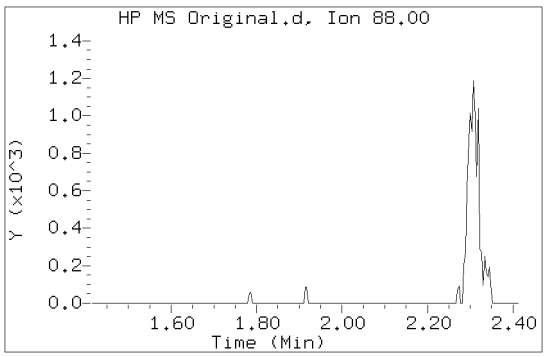
AFTER

MASS
53
AREA
3126
HEIGHT
1722
27-Dec-2022
16:07
linh
pham



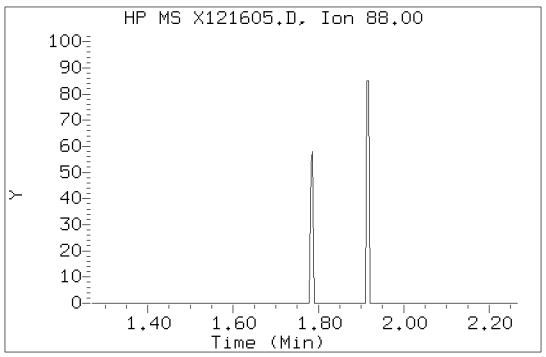
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

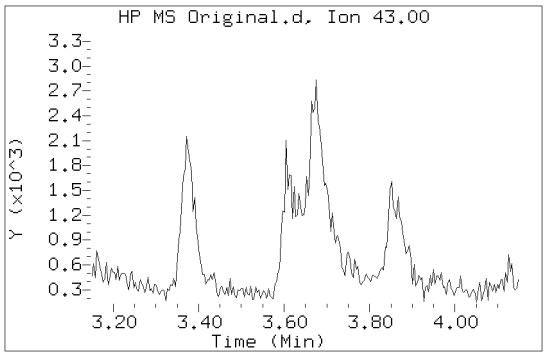


Ethyl Acetate (141-78-6)

Reason Code:

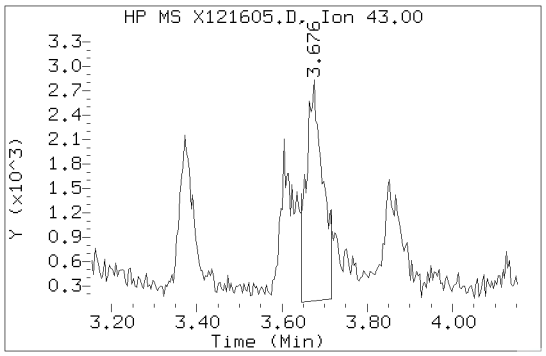
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

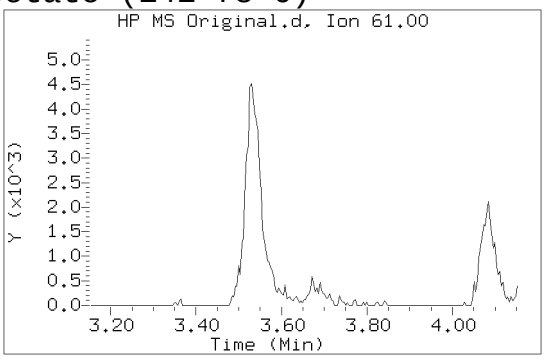
MASS
43
AREA
7422
HEIGHT
2716
27-Dec-2022
16:07
linh
pham



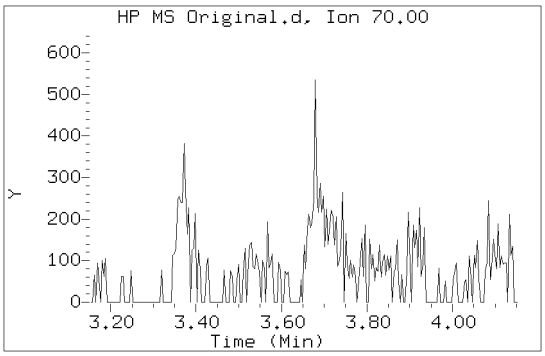
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

BEFORE
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

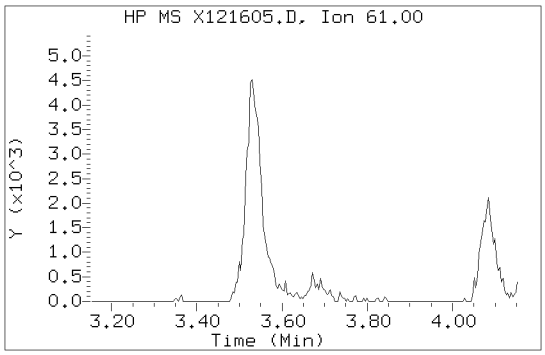


BEFORE
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

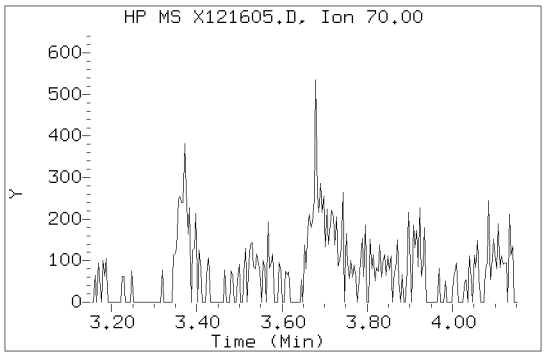


Reason Code:

AFTER
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

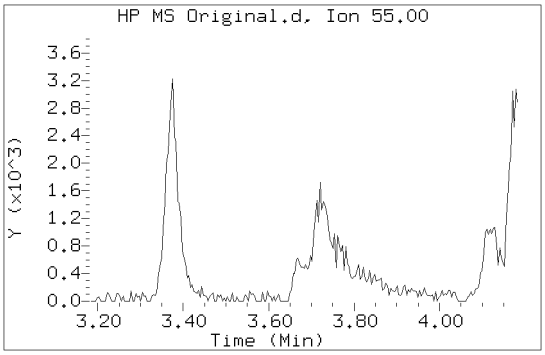


AFTER
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

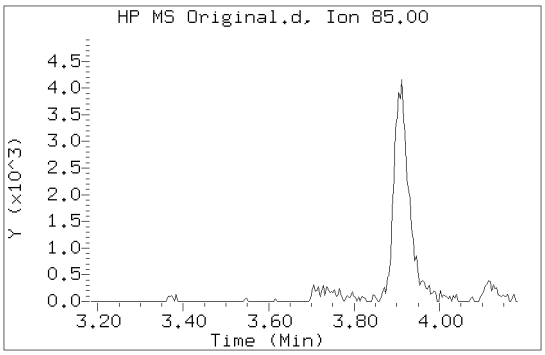


Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

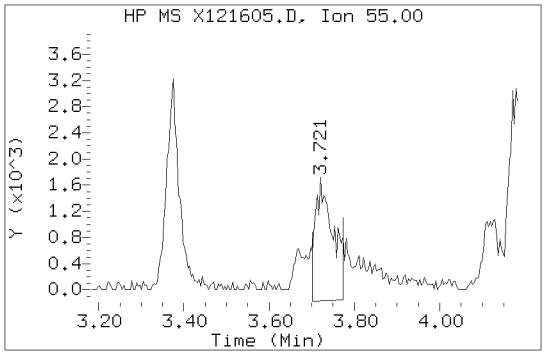


BEFORE
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

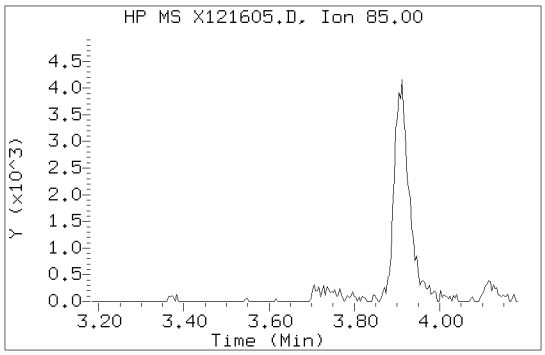


Reason Code:

AFTER
MASS
55
AREA
5443
HEIGHT
1892
27-Dec-2022
16:07
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



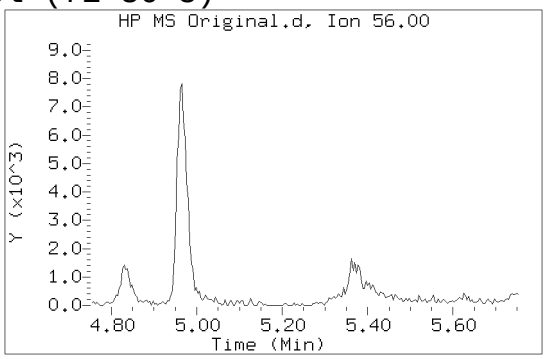
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

n-Butanol (71-36-3)

Reason Code:

BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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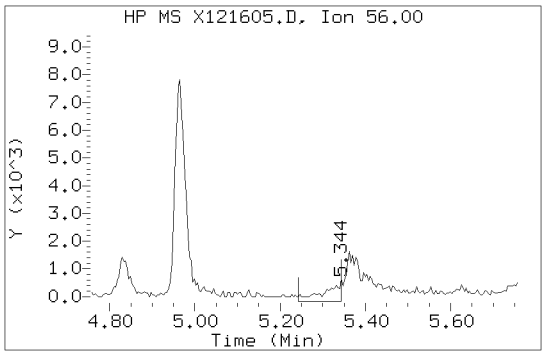

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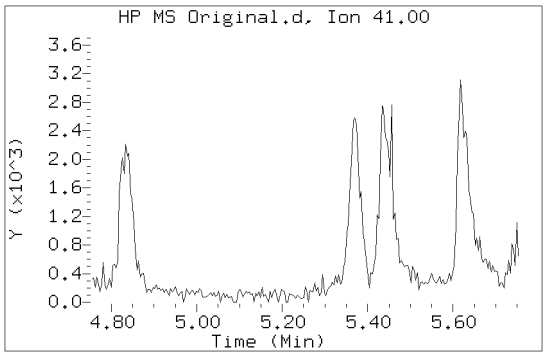

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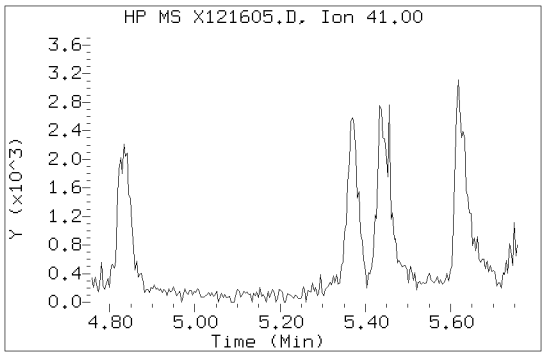

1,4-Dioxane ()

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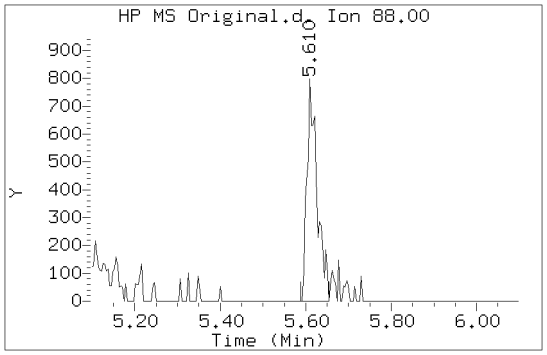

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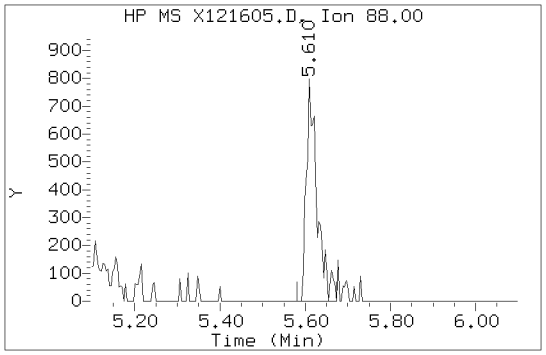

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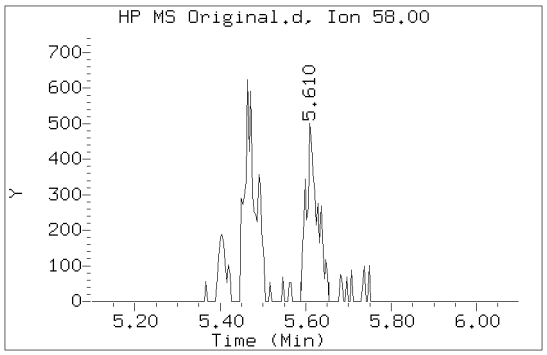

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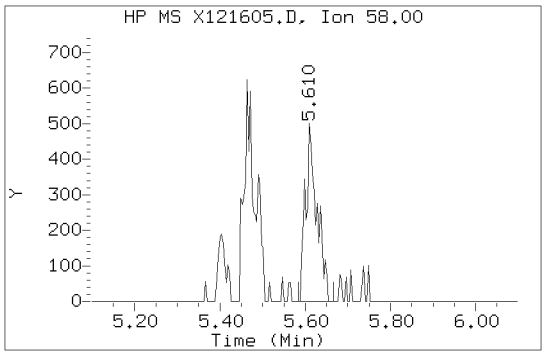

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Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

Reason Code:

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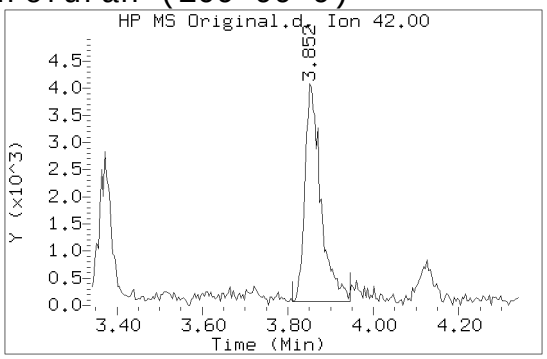

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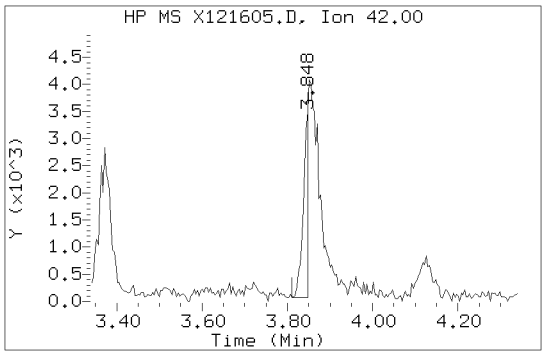

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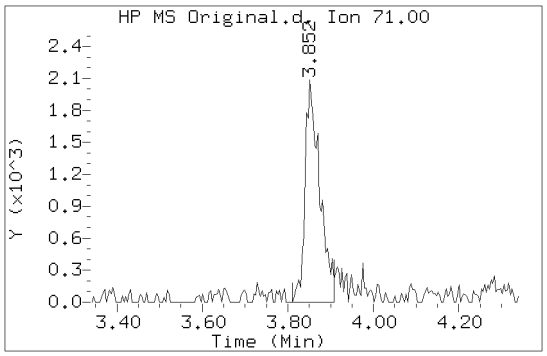

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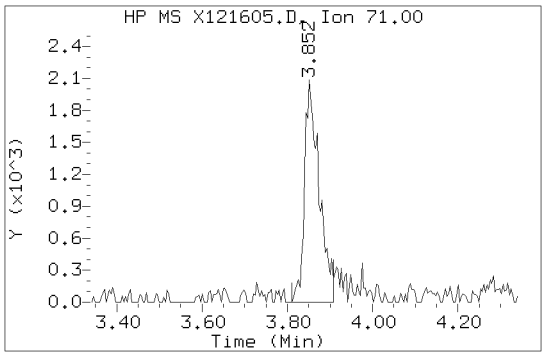

Methylcyclohexane (108-87-2)

Reason Code:

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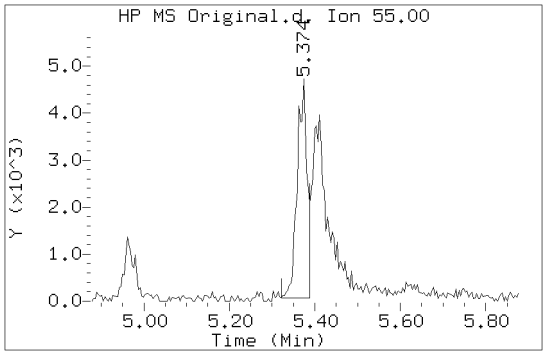

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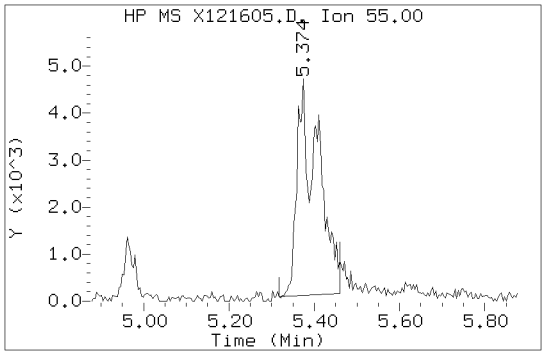

BEFORE
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27-Dec-2022
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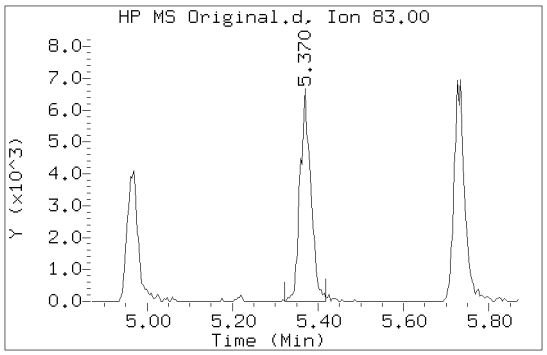

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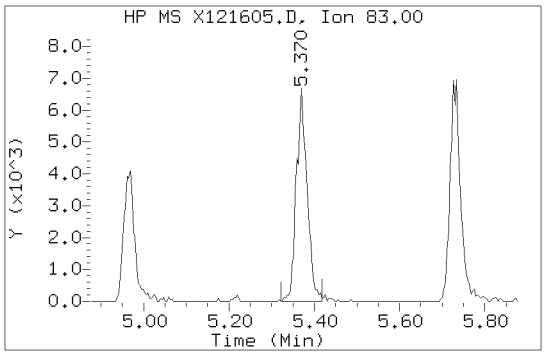

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Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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Reason Code:

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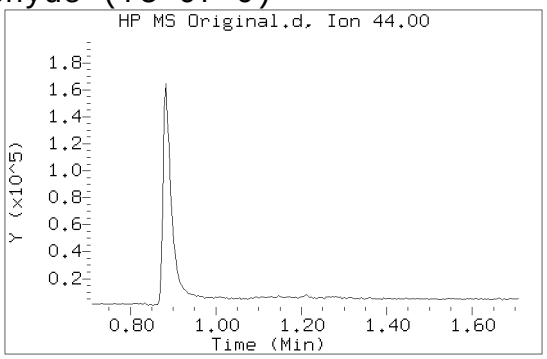

AFTER
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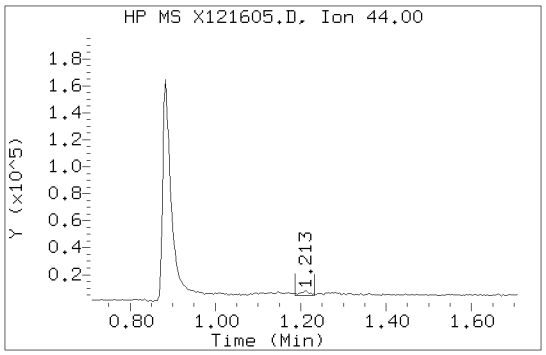

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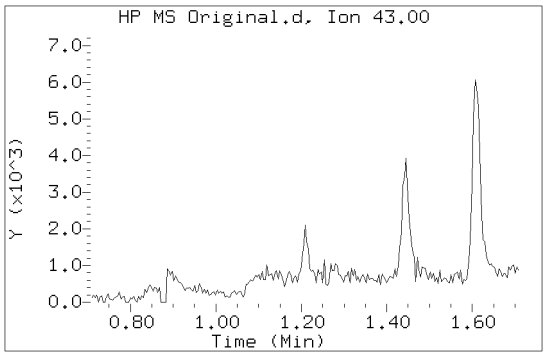

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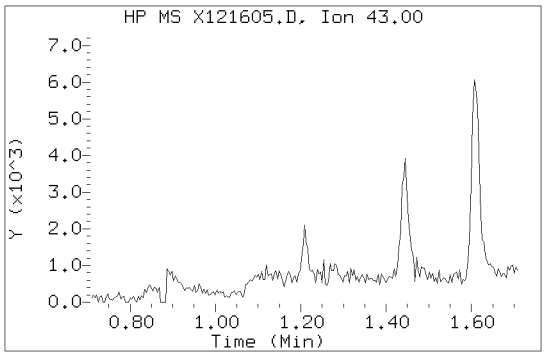

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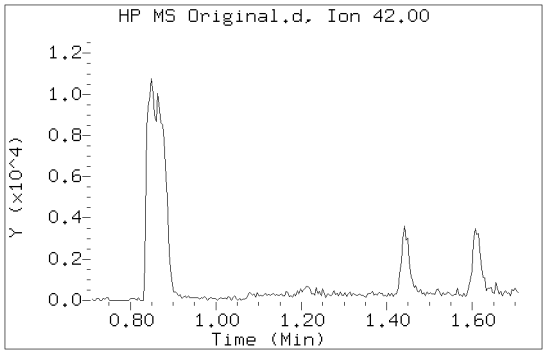

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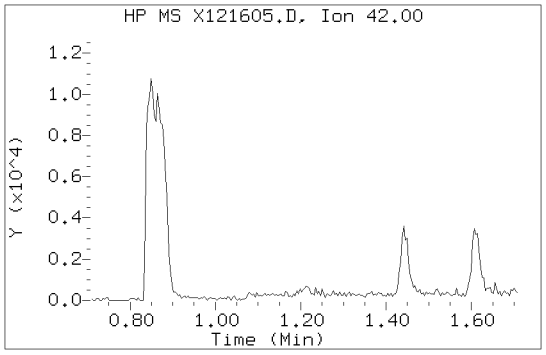

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
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Inj Date : 16-DEC-2022 13:23
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 13:02 Cal File: X121605.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	450664	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.341)	4197	100.000	101.88(M)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	14283	5.00000	4.61
25 Methacrylonitrile	41	3.840	3.840	(0.919)	15701	5.00000	4.92(M)
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	51624	100.000	101.84
13 Acetonitrile	39	2.198	2.198	(0.526)	19635	50.0000	47.87
14 Allyl Chloride	41	2.198	2.198	(0.526)	37993	5.00000	4.86
4 Propionitrile	54	3.660	3.660	(0.876)	23049	50.0000	50.12
136 n-Hexane	57	2.772	2.772	(0.664)	14618	5.00000	4.50
72 trans-1,4-Dichloro-2-butene	53	8.901	8.901	(1.161)	6648	5.00000	4.70(M)
194 Acetaldehyde	44	1.209	1.209	(0.289)	6161	20.0000	0.80(M)
23 Chloroprene	53	1.771	1.771	(0.424)	7154	5.00000	4.66(M)
145 alpha-Methylstyrene	118	9.261	9.261	(0.958)	37831	5.00000	4.79
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	40144	5.00000	4.53
139 Diethyl ether	59	1.756	1.756	(0.420)	15119	5.00000	5.02
130 Ethyl Acetate	43	3.660	3.660	(0.876)	18020	5.00000	5.12(M)
40 Methyl Methacrylate	41	5.617	5.617	(1.345)	15119	5.00000	4.92
49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	13801	5.00000	4.27
132 n-Butanol	56	5.287	5.287	(1.266)	4891	100.000	125.41(M)
142 Tetrahydrofuran	42	3.848	3.848	(0.921)	7598	10.0000	10.82(M)

150	Allyl alcohol	57	2.772	2.772 (0.664)	14618	100.000	83.50
166	1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	80329	5.00000	4.68

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 2
Report Date: 27-Dec-2022 16:07

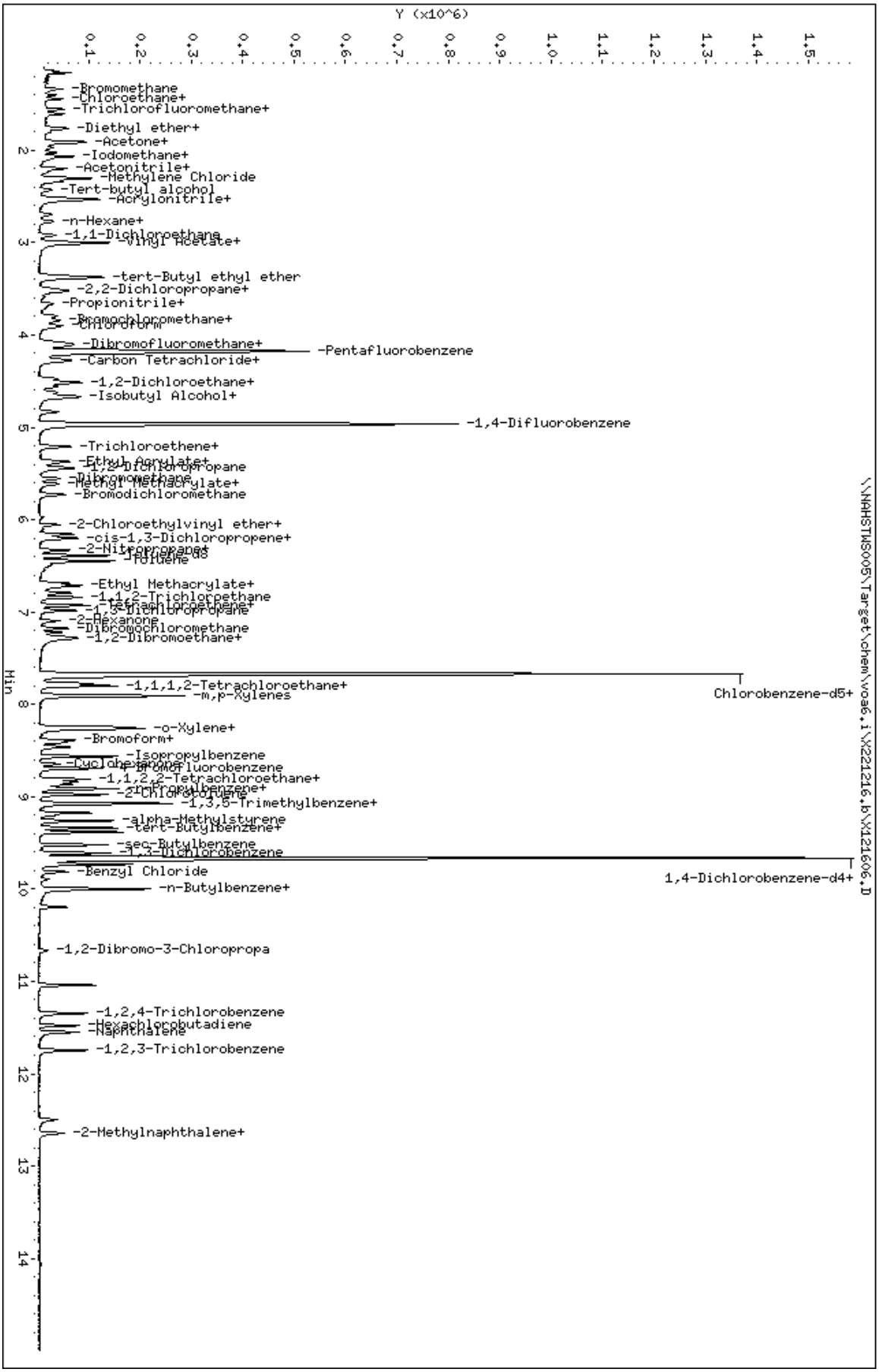
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	131	Methyl Acrylate	55	3.705	3.705	(0.887)	14950	5.00000	4.88(M)
	162	Butyl acrylate	55	8.260	8.260	(1.077)	38320	5.00000	4.48
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	15008	5.00000	5.11
	3	Chloromethane	50	1.077	1.077	(0.258)	19623	5.00000	6.81
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	19002	5.00000	4.82
	6	Bromomethane	94	1.336	1.336	(0.320)	15112	5.00000	6.66
	7	Chloroethane	64	1.400	1.400	(0.335)	14167	5.00000	5.17
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	26620	5.00000	4.83
	9	Acrolein	56	1.441	1.441	(0.345)	2699	10.0000	11.33
	10	Acetone	43	1.973	1.973	(0.472)	17632	10.0000	13.91
	11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	16850	5.00000	4.92
	15	Iodomethane	142	2.026	2.026	(0.485)	26708	10.0000	9.27
	16	Acrylonitrile	53	2.551	2.551	(0.611)	11047	10.0000	9.52
	17	Methylene Chloride	84	2.303	2.303	(0.551)	22932	5.00000	4.88(M)
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	56330	5.00000	5.03
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	85418	10.0000	9.54
	20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	19006	5.00000	4.96
	21	Vinyl Acetate	43	3.000	3.000	(0.718)	101238	10.0000	10.30
	22	1,1-Dichloroethane	63	2.922	2.922	(0.699)	33810	5.00000	5.03
	24	2-Butanone	43	3.600	3.600	(0.862)	11771	10.0000	11.53(H)
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	27881	5.00000	4.88
	27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	22734	5.00000	4.88
	28	Chloroform	83	3.904	3.904	(0.935)	38156	5.00000	5.06
	29	Bromochloromethane	128	3.799	3.799	(0.909)	13213	5.00000	5.18
$	30	Dibromofluoromethane	113	4.103	4.103	(0.982)	24255	5.00000	5.45
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	29017	5.00000	4.85
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	23845	5.00000	4.90(M)
	33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	28173	5.00000	5.01
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	24171	5.00000	4.65
$	35	1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	24938	5.00000	5.70(M)
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685413	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	81981	5.00000	5.00
	38	Trichloroethene	130	5.208	5.208	(1.049)	22693	5.00000	4.88
	39	Bromodichloromethane	83	5.729	5.729	(1.154)	29358	5.00000	4.77
	41	2-Chloroethylvinyl ether	63	6.056	6.056	(1.220)	17700	10.0000	10.12
	42	1,2-Dichloropropane	63	5.437	5.437	(1.095)	21679	5.00000	4.97
	44	Dibromomethane	93	5.557	5.557	(1.119)	14449	5.00000	4.88
	45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	34912	10.0000	9.98
	46	cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	35507	5.00000	4.92
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	654176	50.0000	
$	48	Toluene-d8	98	6.389	6.389	(0.833)	81640	5.00000	5.05
	50	Toluene	91	6.449	6.449	(0.841)	89594	5.00000	4.95
	51	trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	28399	5.00000	4.74(M)
	52	2-Hexanone	43	7.094	7.094	(0.925)	24056	10.0000	10.11
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	18638	5.00000	5.13
	54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	35759	5.00000	5.00
	55	Dibromochloromethane	129	7.176	7.176	(0.936)	25357	5.00000	4.84
	56	Tetrachloroethene	164	6.929	6.929	(0.904)	17219	5.00000	4.60
	57	1,2-Dibromoethane	107	7.263	7.263	(0.947)	23172	5.00000	5.10
	58	1-Chlorohexane	55	7.698	7.698	(1.550)	15210	5.00000	4.59(MH)
	59	Chlorobenzene	112	7.694	7.694	(1.003)	62744	5.00000	4.89
	60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	22632	5.00000	4.74

61 Ethylbenzene	106	7.802	7.802 (1.018)	29550	5.00000	4.89
62 m,p-Xylenes	106	7.907	7.907 (1.031)	73283	10.0000	9.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
63	o-Xylene	106	8.245	8.245	(1.075)	37189	5.00000	4.83
64	Styrene	104	8.267	8.267	(1.078)	62411	5.00000	4.84
66	Bromoform	173	8.414	8.414	(1.097)	16801	5.00000	4.63
67	Isopropylbenzene	105	8.563	8.563	(1.117)	85440	5.00000	4.86
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	29807	5.00000	5.24
$ 69	4-Bromofluorobenzene	95	8.695	8.695	(1.134)	32501	5.00000	5.43
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356340	50.0000	
71	1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	20685	5.00000	5.21(M)
73	n-Propylbenzene	91	8.916	8.916	(0.923)	97603	5.00000	4.94
74	Bromobenzene	156	8.811	8.811	(0.912)	28887	5.00000	4.94
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	72501	5.00000	4.97
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	65973	5.00000	5.09
77	4-Chlorotoluene	91	9.077	9.077	(0.939)	75073	5.00000	5.08
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	59375	5.00000	4.97
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	75723	5.00000	4.93
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	77577	5.00000	4.88
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	69666	5.00000	4.89
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	49954	5.00000	5.14
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	52655	5.00000	4.97
86	Benzyl Chloride	91	9.816	9.816	(1.280)	35254	5.00000	5.95
87	n-Butylbenzene	91	9.999	9.999	(1.035)	54831	5.00000	5.63
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	50895	5.00000	5.09
89	1,2-Dibromo-3-Chloropropane	155	10.670	10.670	(1.104)	4911	5.00000	5.49
90	1,2,4-Trichlorobenzene	180	11.345	11.345	(1.174)	31873	5.00000	5.05
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	13454	5.00000	4.81
92	Naphthalene	128	11.551	11.551	(1.196)	72748	5.00000	5.06
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	30274	5.00000	5.01
M 94	1,2-Dichloroethylene (total)	96				41740	10.0000	
M 95	Xylenes (total)	106				110472	15.0000	
141	Cyclohexane	56	4.118	4.118	(0.986)	19859	5.00000	5.52(H)
138	Freon TF	101	1.913	1.913	(0.458)	14845	5.00000	4.48
147	Methylcyclohexane	55	5.388	5.388	(1.085)	38650	5.00000	4.60(M)
146	Methyl Acetate	43	2.236	2.236	(0.535)	8968	5.00000	4.42
148	Tert-Butyl alcohol	59	2.431	2.431	(0.582)	30525	100.000	97.81
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	16518	100.000	101.35(T)

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Date : 16-DEC-2022 13:23
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

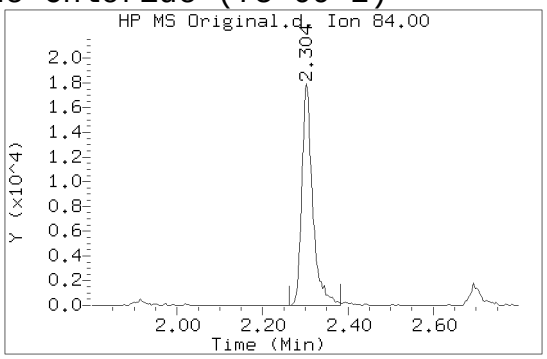
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

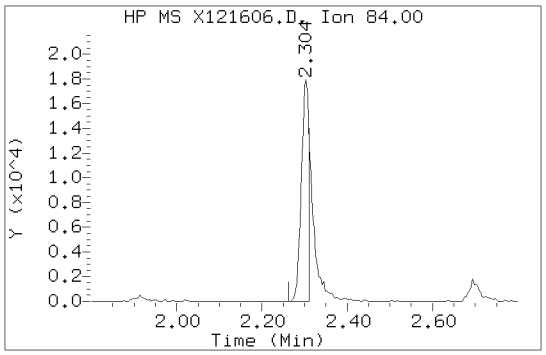
Methylene Chloride (75-09-2)

Reason Code:

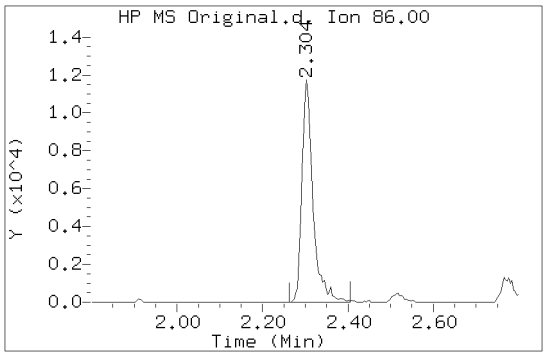
BEFORE
MASS
84
AREA
32325
HEIGHT
17936
27-Dec-2022
16:03
linh
pham



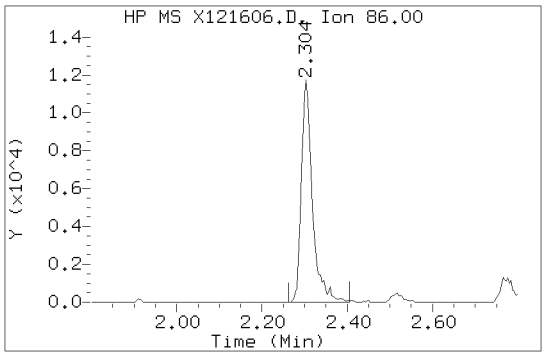
AFTER
MASS
84
AREA
22932
HEIGHT
17936
27-Dec-2022
16:07
linh
pham



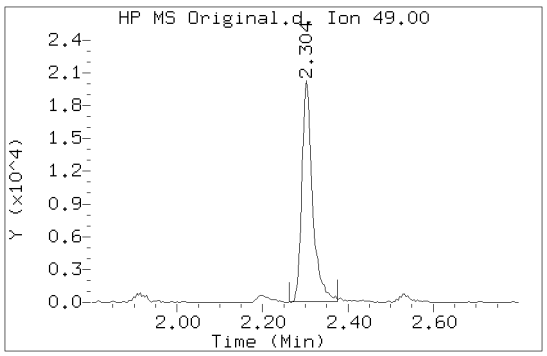
BEFORE
MASS
86
AREA
21691
HEIGHT
11740
27-Dec-2022
16:03
linh
pham



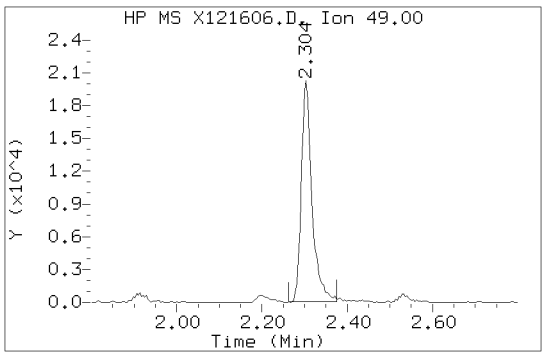
AFTER
MASS
86
AREA
21691
HEIGHT
11740
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
49
AREA
35909
HEIGHT
20222
27-Dec-2022
16:03
linh
pham



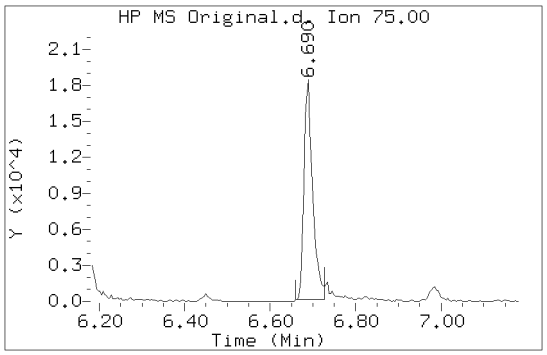
AFTER
MASS
49
AREA
35909
HEIGHT
20222
27-Dec-2022
16:07
linh
pham



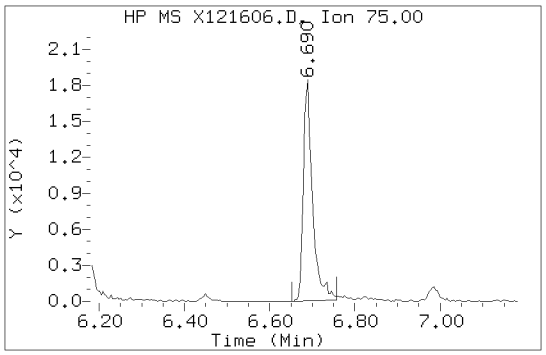
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

BEFORE
MASS
75
AREA
26483
HEIGHT
18306
27-Dec-2022
16:03
linh
pham



AFTER
MASS
75
AREA
28399
HEIGHT
18443
27-Dec-2022
16:07
linh
pham



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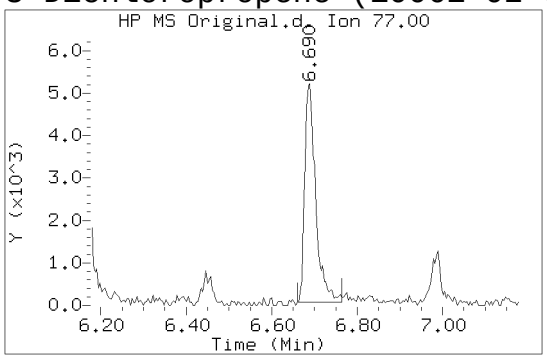
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

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

Reason Code:

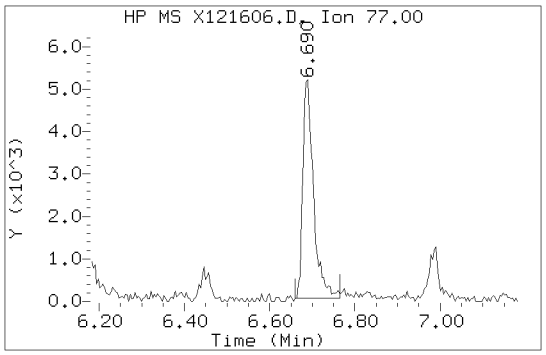
BEFORE

MASS
77
AREA
9244
HEIGHT
5154
27-Dec-2022
16:03
linh
pham



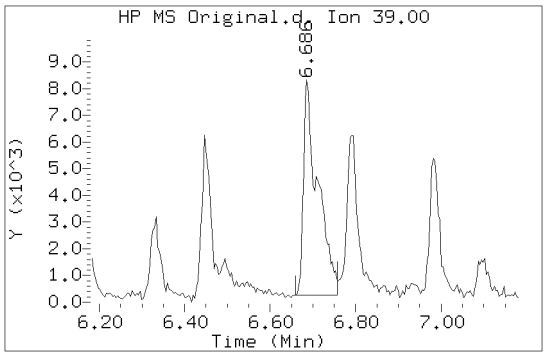
AFTER

MASS
77
AREA
9244
HEIGHT
5154
27-Dec-2022
16:07
linh
pham



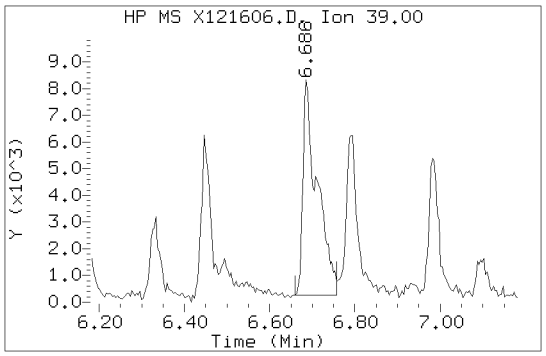
BEFORE

MASS
39
AREA
19092
HEIGHT
8065
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
19092
HEIGHT
8065
27-Dec-2022
16:07
linh
pham

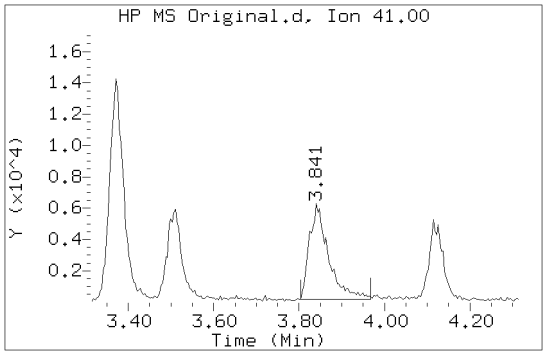


Methacrylonitrile (126-98-7)

Reason Code:

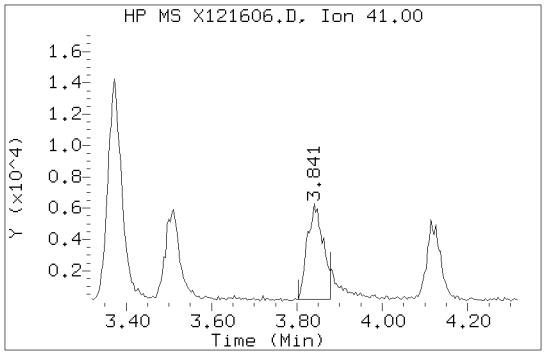
BEFORE

MASS
41
AREA
18790
HEIGHT
6109
27-Dec-2022
16:03
linh
pham



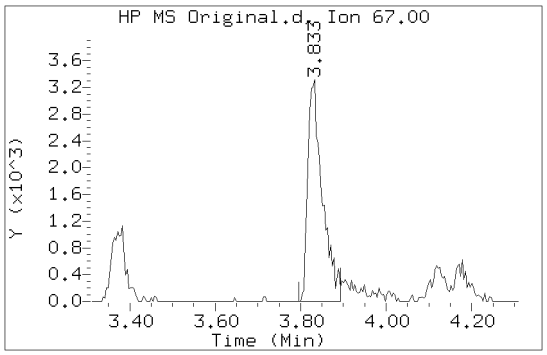
AFTER

MASS
41
AREA
15701
HEIGHT
6109
27-Dec-2022
16:07
linh
pham



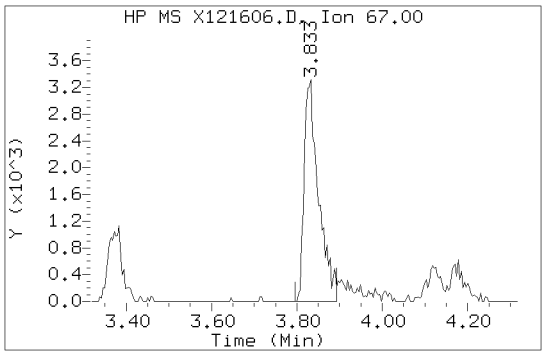
BEFORE

MASS
67
AREA
7866
HEIGHT
3315
27-Dec-2022
16:03
linh
pham



AFTER

MASS
67
AREA
7866
HEIGHT
3315
27-Dec-2022
16:07
linh
pham



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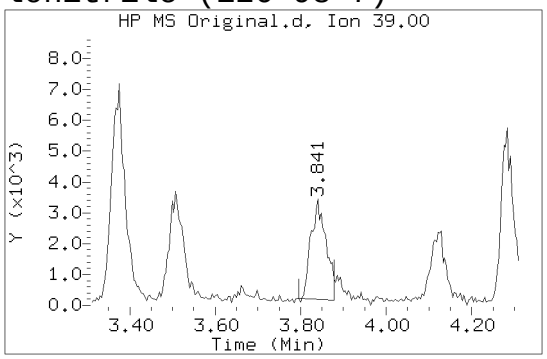
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

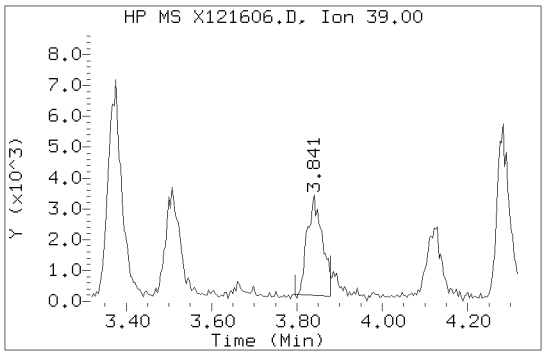
Methacrylonitrile (126-98-7)

Reason Code:

BEFORE
MASS
39
AREA
7951
HEIGHT
3252
27-Dec-2022
16:03
linh
pham



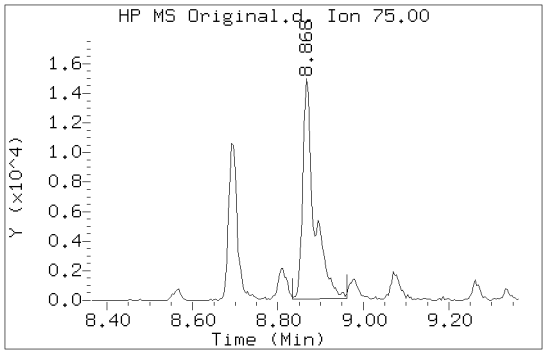
AFTER
MASS
39
AREA
7951
HEIGHT
3252
27-Dec-2022
16:07
linh
pham



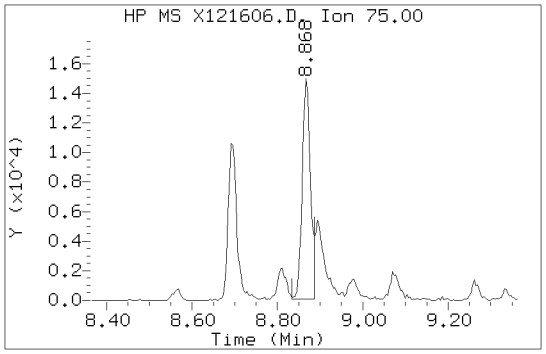
1,2,3-Trichloropropane (96-18-4)

Reason Code:

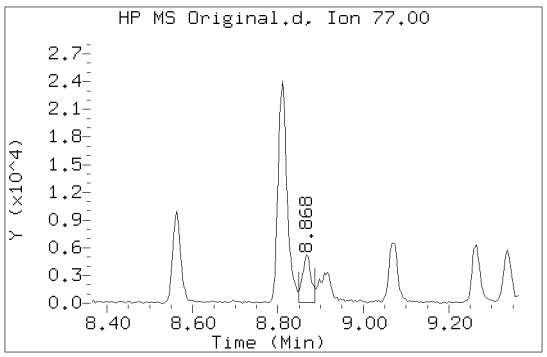
BEFORE
MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:03
linh
pham



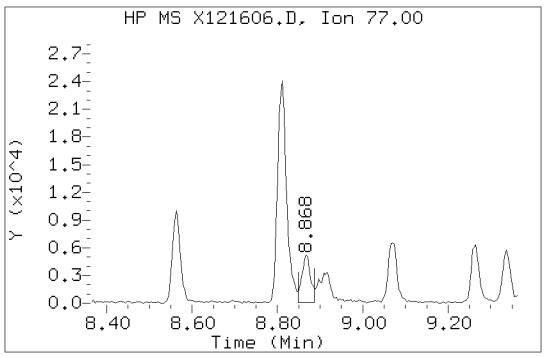
AFTER
MASS
75
AREA
20685
HEIGHT
14911
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
77
AREA
7524
HEIGHT
5143
27-Dec-2022
16:03
linh
pham



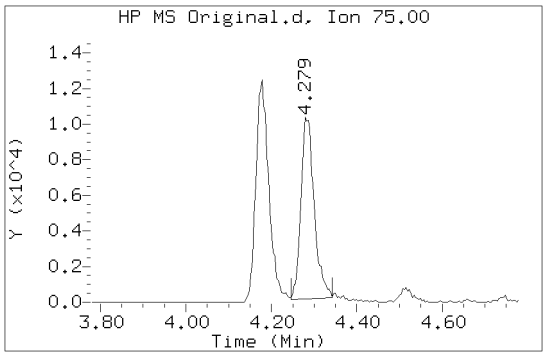
AFTER
MASS
77
AREA
7524
HEIGHT
5143
27-Dec-2022
16:07
linh
pham



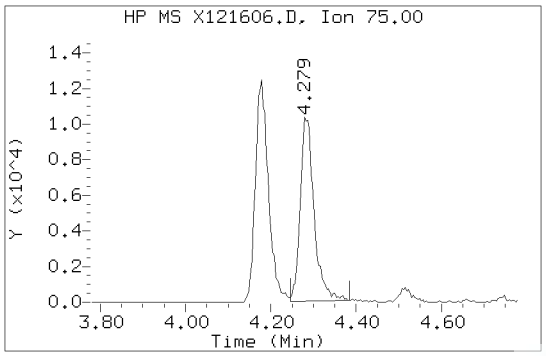
1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE
MASS
75
AREA
22411
HEIGHT
10201
27-Dec-2022
16:03
linh
pham



AFTER
MASS
75
AREA
23845
HEIGHT
10354
27-Dec-2022
16:07
linh
pham

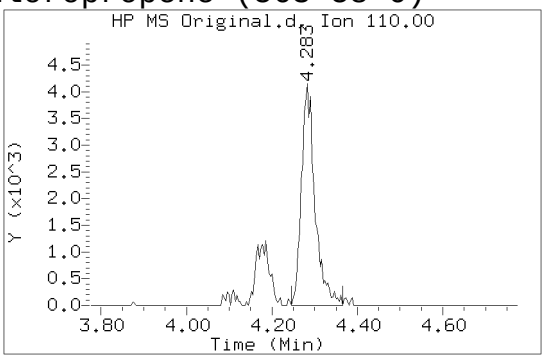


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

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

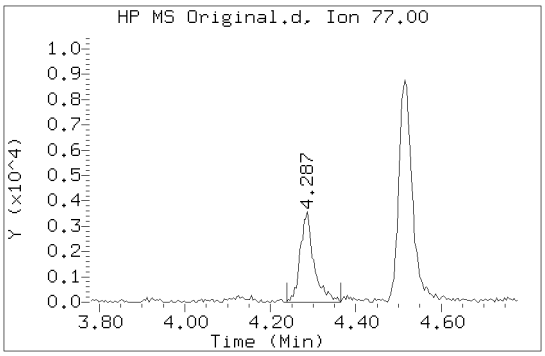
BEFORE

MASS
110
AREA
9244
HEIGHT
4151
27-Dec-2022
16:03
linh
pham



BEFORE

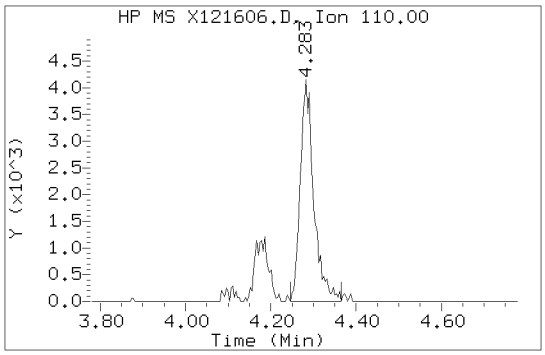
MASS
77
AREA
8083
HEIGHT
3567
27-Dec-2022
16:03
linh
pham



Reason Code:

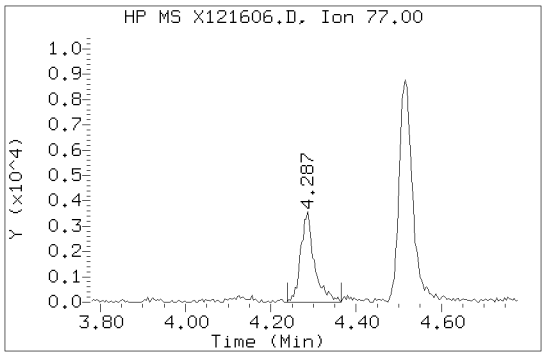
AFTER

MASS
110
AREA
9244
HEIGHT
4151
27-Dec-2022
16:07
linh
pham



AFTER

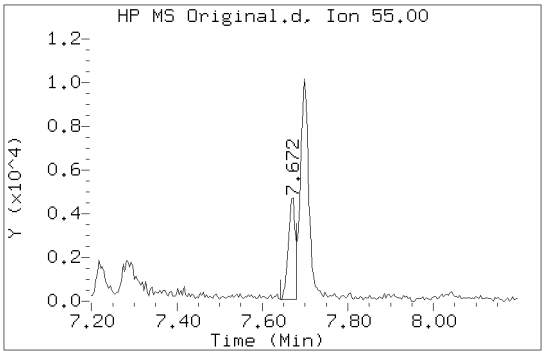
MASS
77
AREA
8083
HEIGHT
3567
27-Dec-2022
16:07
linh
pham



1-Chlorohexane (544-10-5)

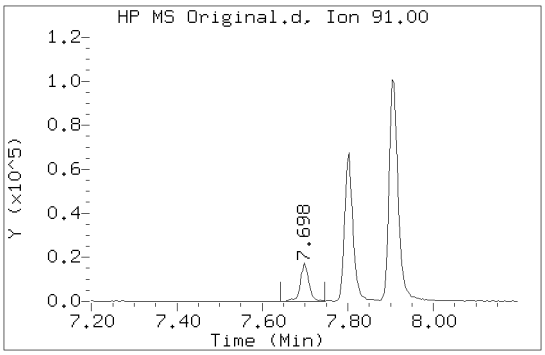
BEFORE

MASS
55
AREA
5371
HEIGHT
4660
27-Dec-2022
16:03
linh
pham



BEFORE

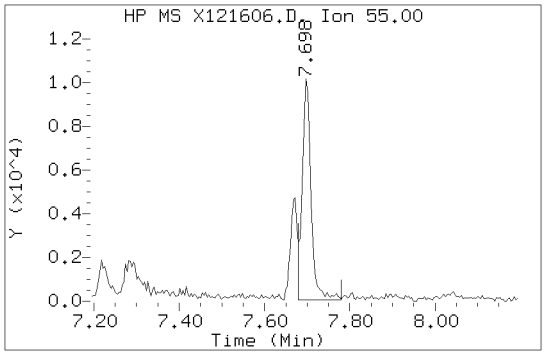
MASS
91
AREA
24578
HEIGHT
17336
27-Dec-2022
16:03
linh
pham



Reason Code:

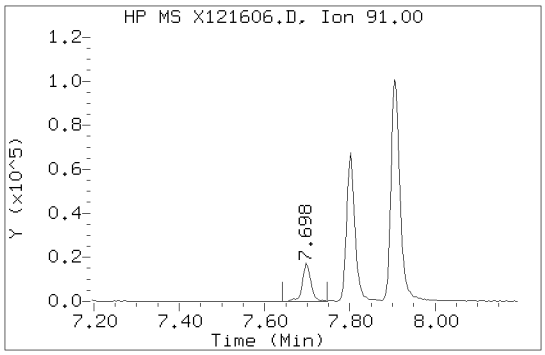
AFTER

MASS
55
AREA
15210
HEIGHT
10126
27-Dec-2022
16:07
linh
pham



AFTER

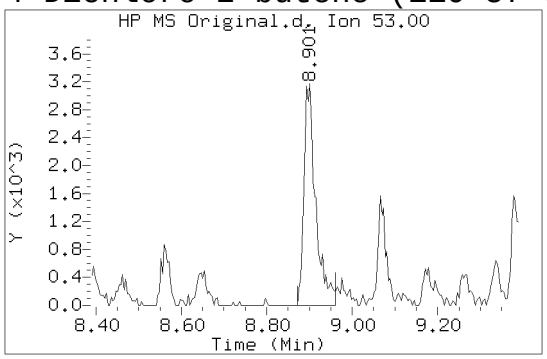
MASS
91
AREA
24578
HEIGHT
17336
27-Dec-2022
16:07
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

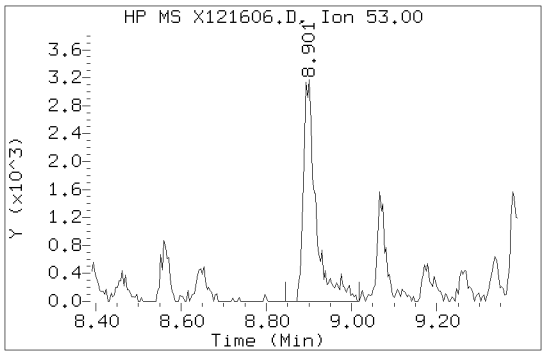
trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE
MASS
53
AREA
6122
HEIGHT
3172
27-Dec-2022
16:03
linh
pham

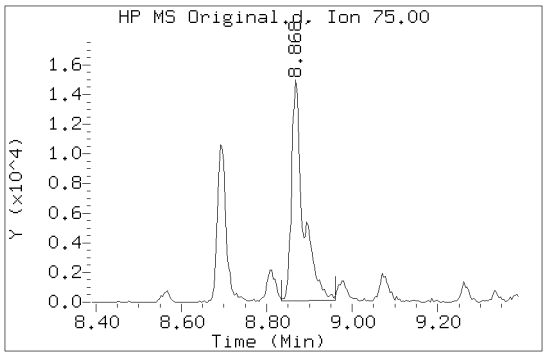


Reason Code:

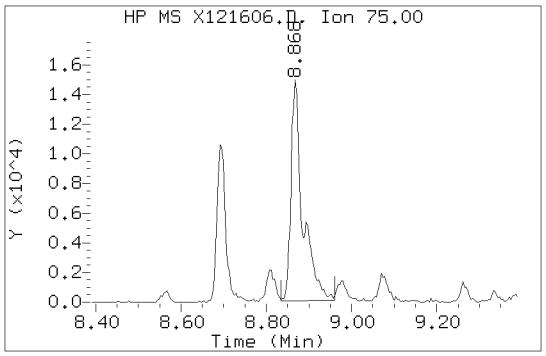
AFTER
MASS
53
AREA
6648
HEIGHT
3172
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:03
linh
pham

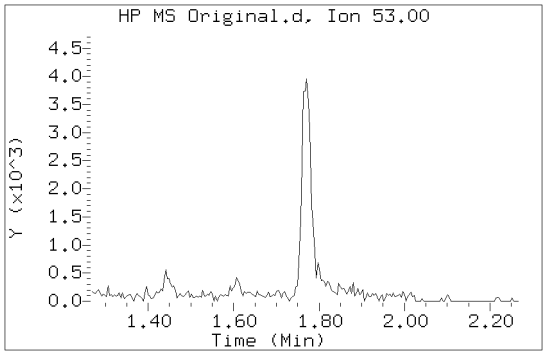


AFTER
MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:07
linh
pham



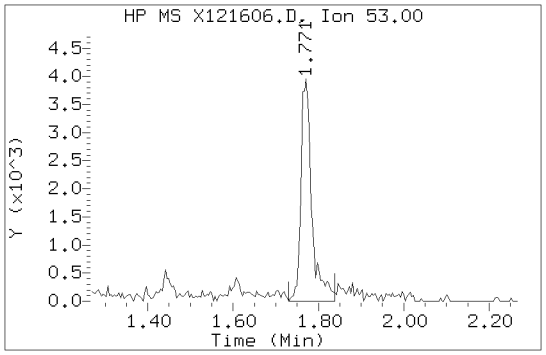
Chloroprene (126-99-8)

BEFORE
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

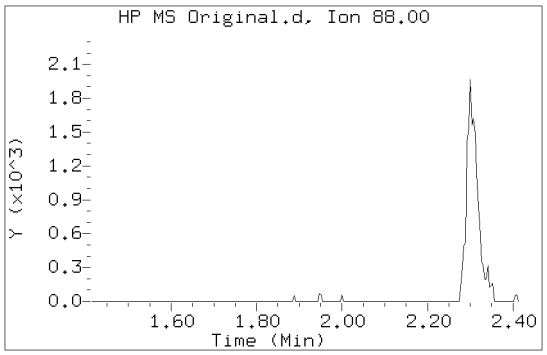


Reason Code:

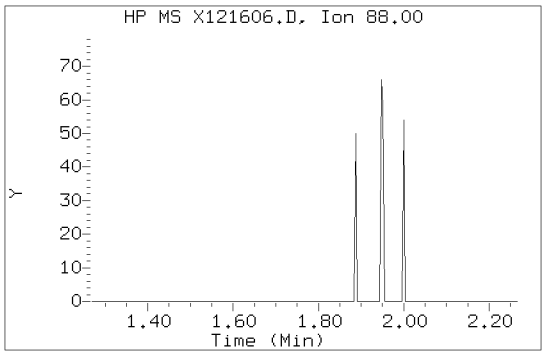
AFTER
MASS
53
AREA
7154
HEIGHT
3955
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



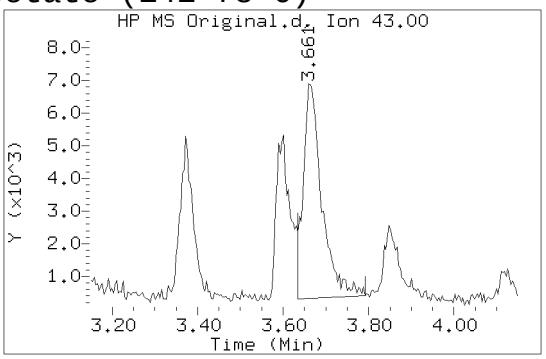
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

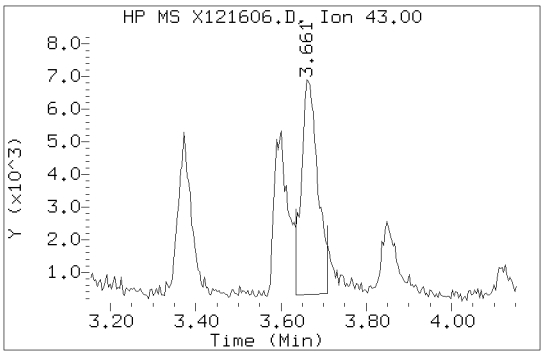
BEFORE

MASS
43
AREA
20113
HEIGHT
6576
27-Dec-2022
16:03
linh
pham



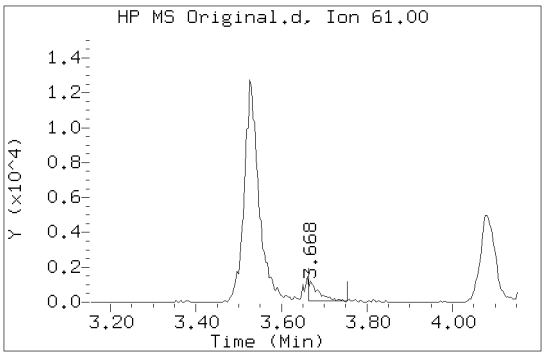
AFTER

MASS
43
AREA
18020
HEIGHT
6576
27-Dec-2022
16:07
linh
pham



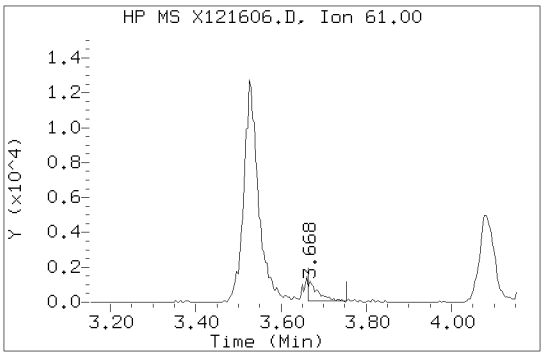
BEFORE

MASS
61
AREA
1766
HEIGHT
1155
27-Dec-2022
16:03
linh
pham



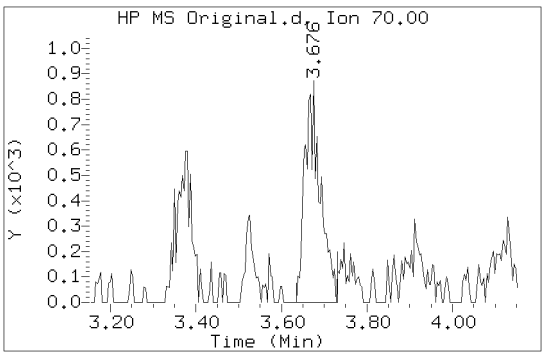
AFTER

MASS
61
AREA
1766
HEIGHT
1155
27-Dec-2022
16:07
linh
pham



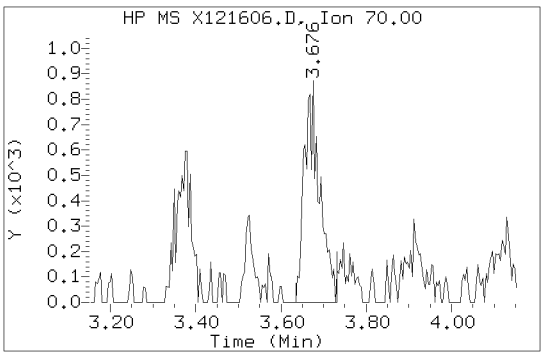
BEFORE

MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:03
linh
pham



AFTER

MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:07
linh
pham

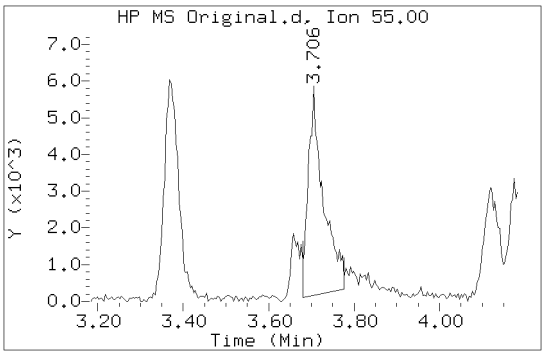


Methyl Acrylate (96-33-3)

Reason Code:

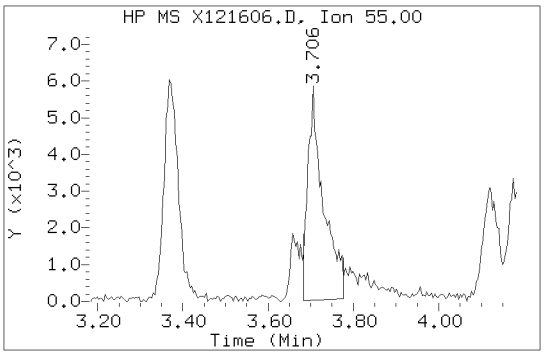
BEFORE

MASS
55
AREA
14157
HEIGHT
5696
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
14950
HEIGHT
5831
27-Dec-2022
16:07
linh
pham



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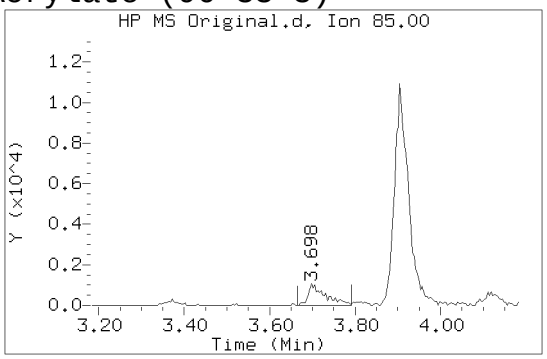
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

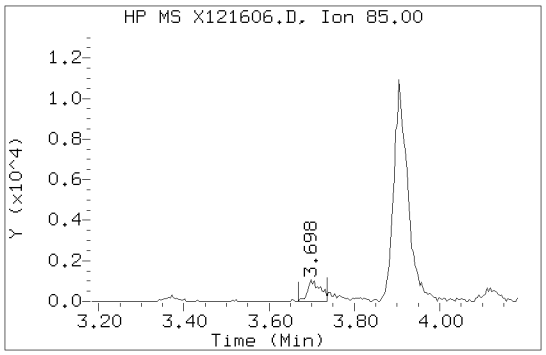
BEFORE

MASS
85
AREA
2934
HEIGHT
1073
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
2159
HEIGHT
1073
27-Dec-2022
16:07
linh
pham

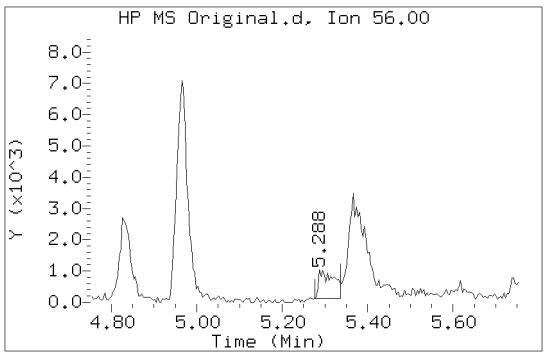


n-Butanol (71-36-3)

Reason Code:

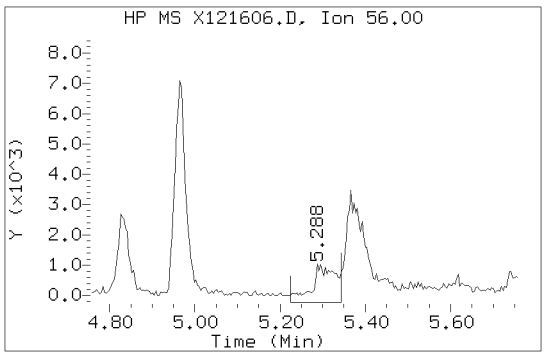
BEFORE

MASS
56
AREA
2243
HEIGHT
922
27-Dec-2022
16:03
linh
pham



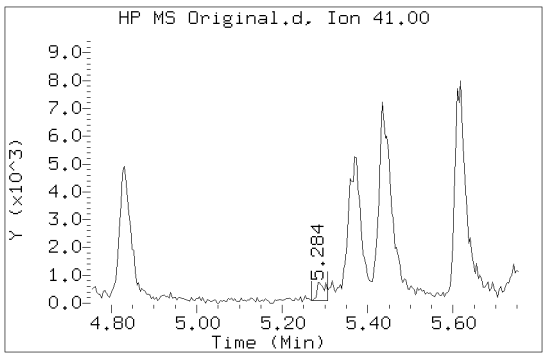
AFTER

MASS
56
AREA
4891
HEIGHT
1266
27-Dec-2022
16:07
linh
pham



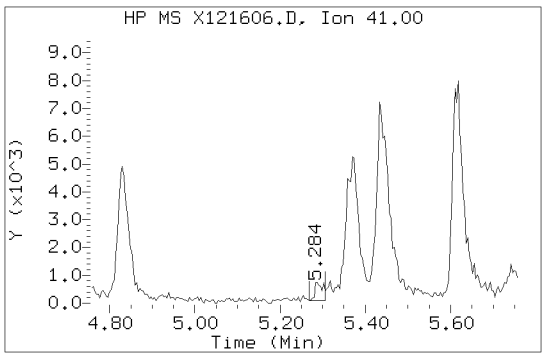
BEFORE

MASS
41
AREA
876
HEIGHT
641
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
876
HEIGHT
641
27-Dec-2022
16:07
linh
pham

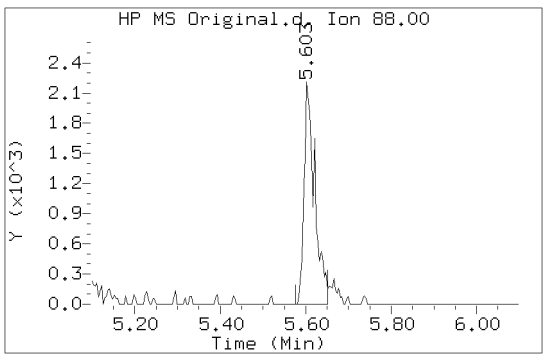


1,4-Dioxane ()

Reason Code:

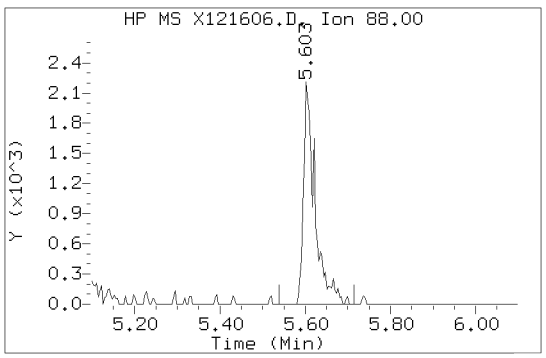
BEFORE

MASS
88
AREA
3873
HEIGHT
2211
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
4197
HEIGHT
2211
27-Dec-2022
16:07
linh
pham



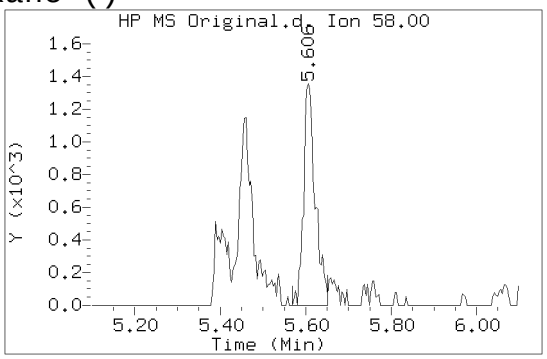
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,4-Dioxane ()

Reason Code:

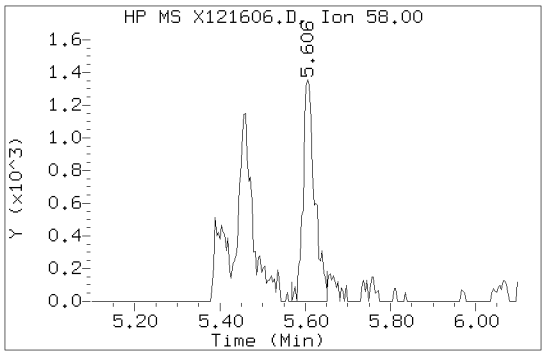
BEFORE

MASS
58
AREA
2625
HEIGHT
1356
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
2625
HEIGHT
1356
27-Dec-2022
16:07
linh
pham

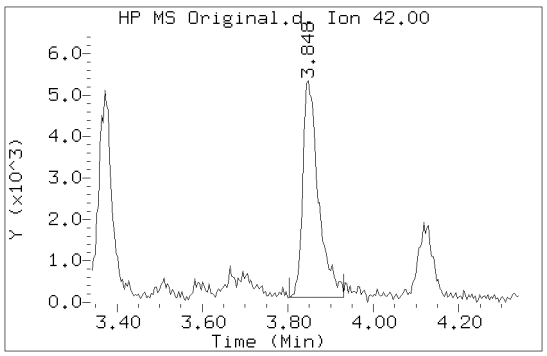


Tetrahydrofuran (109-99-9)

Reason Code:

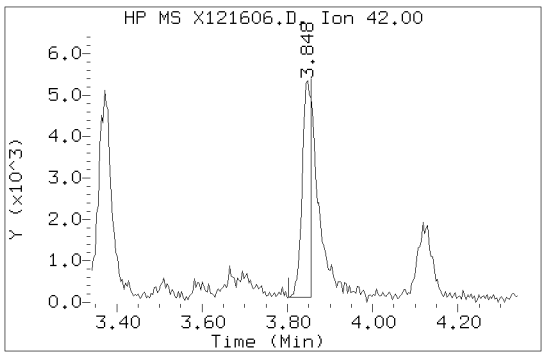
BEFORE

MASS
42
AREA
13557
HEIGHT
5225
27-Dec-2022
16:03
linh
pham



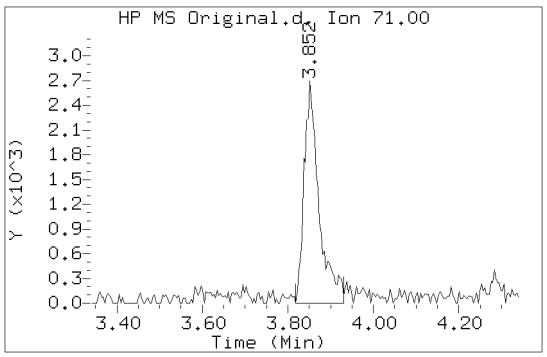
AFTER

MASS
42
AREA
7598
HEIGHT
5225
27-Dec-2022
16:07
linh
pham



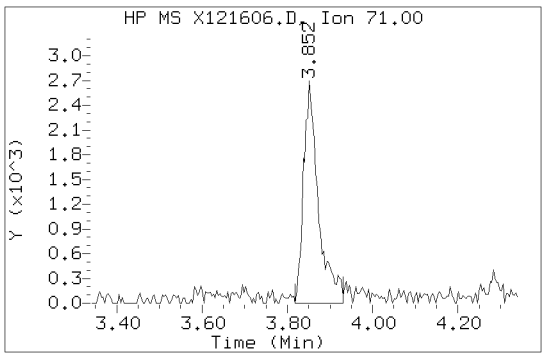
BEFORE

MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:03
linh
pham



AFTER

MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:07
linh
pham

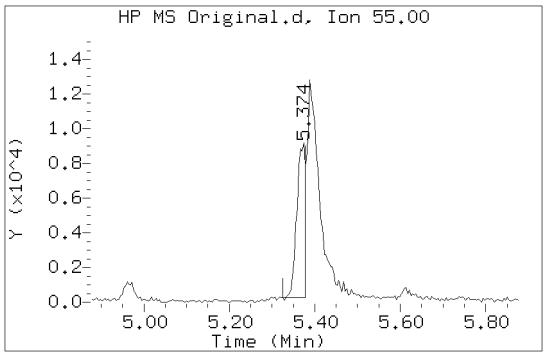


Methylcyclohexane (108-87-2)

Reason Code:

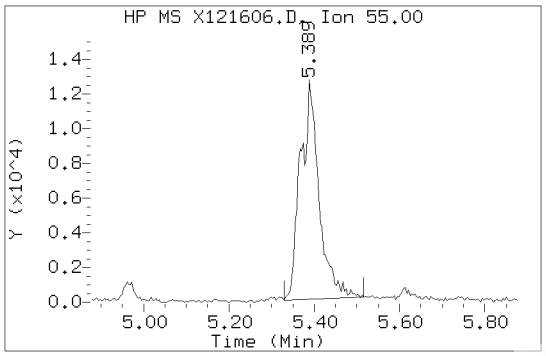
BEFORE

MASS
55
AREA
12381
HEIGHT
8941
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
38650
HEIGHT
12647
27-Dec-2022
16:07
linh
pham

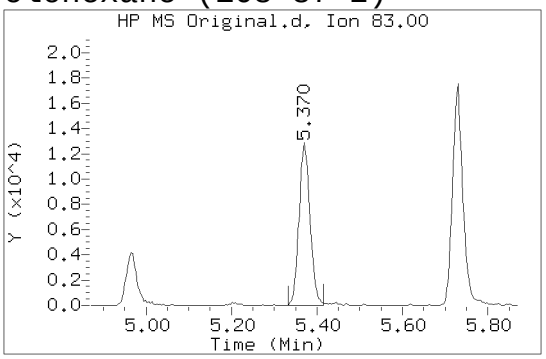


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methylcyclohexane (108-87-2)

BEFORE

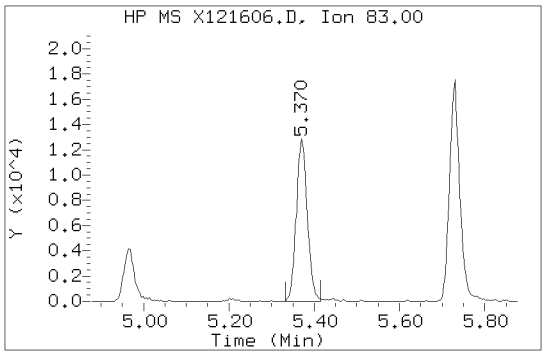
MASS
83
AREA
23564
HEIGHT
12870
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

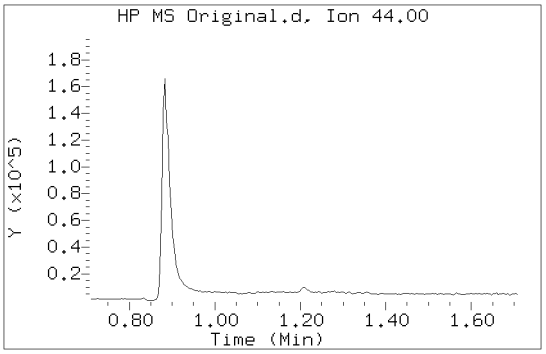
MASS
83
AREA
23564
HEIGHT
12870
27-Dec-2022
16:07
linh
pham



Acetaldehyde (75-07-0)

BEFORE

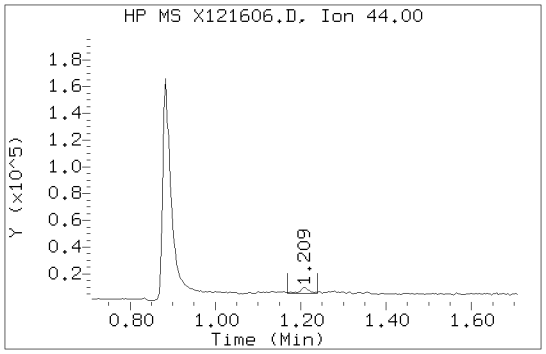
MASS
44
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

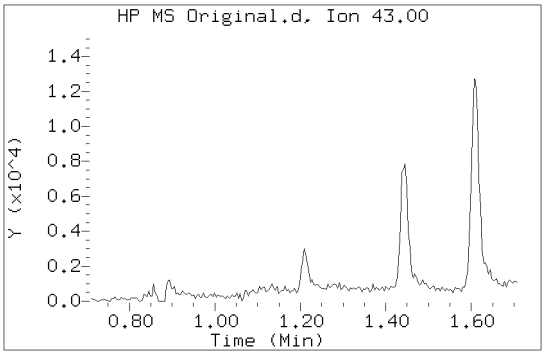
AFTER

MASS
44
AREA
6161
HEIGHT
4314
27-Dec-2022
16:07
linh
pham



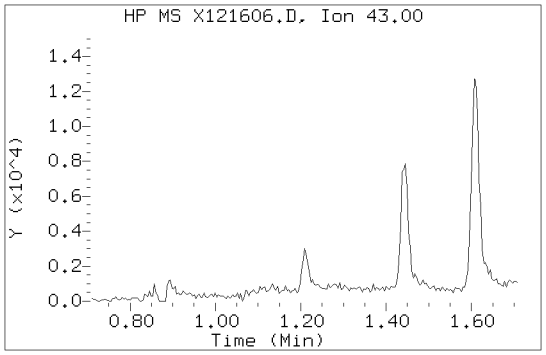
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



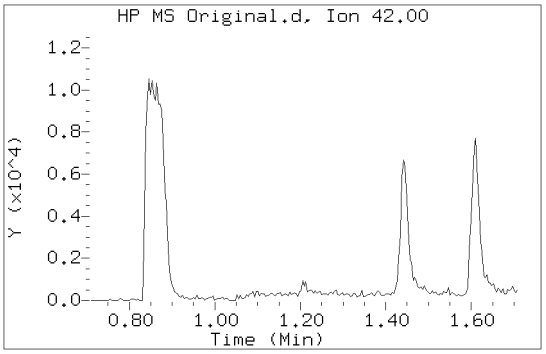
AFTER

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



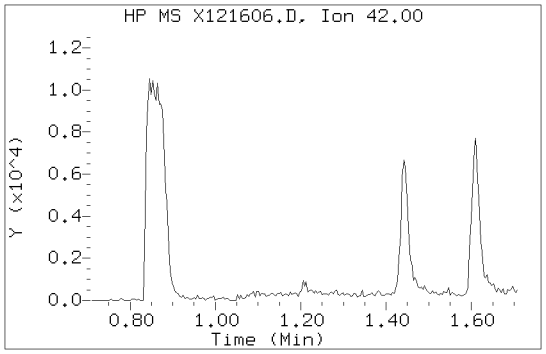
BEFORE

MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



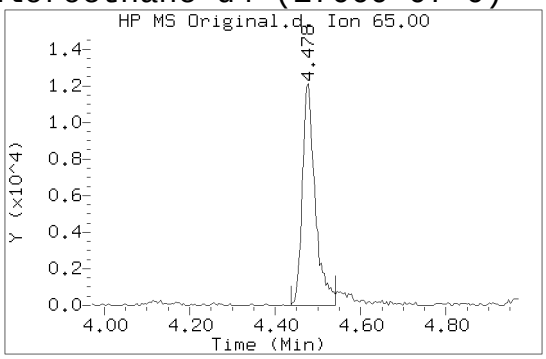
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

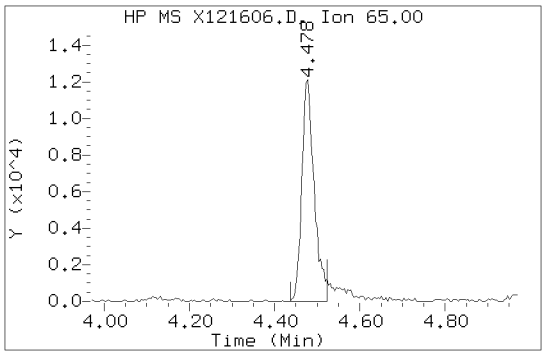
BEFORE

MASS
65
AREA
25815
HEIGHT
12121
27-Dec-2022
16:03
linh
pham



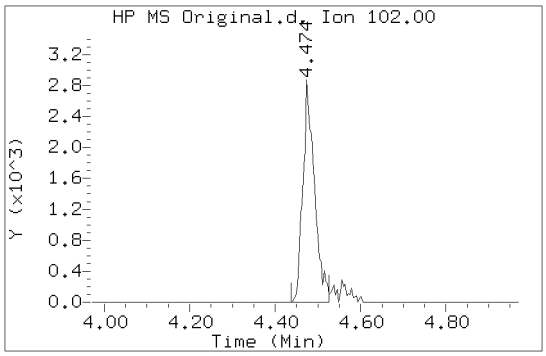
AFTER

MASS
65
AREA
24938
HEIGHT
12121
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
102
AREA
5492
HEIGHT
2873
27-Dec-2022
16:03
linh
pham



AFTER

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27-Dec-2022
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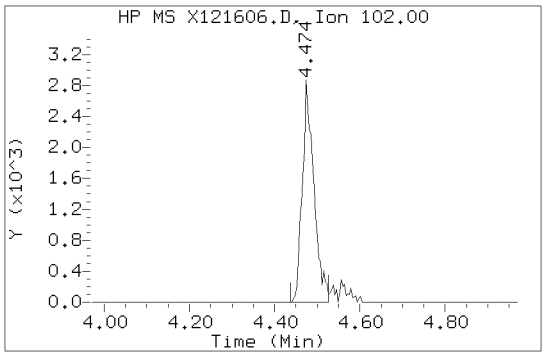

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D
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Inj Date : 16-DEC-2022 13:43
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 13:23 Cal File: X121606.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	459407	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	16105	400.000	383.50(M)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	58280	20.0000	18.48
25 Methacrylonitrile	41	3.821	3.821	(0.915)	62911	20.0000	19.33
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	201008	400.000	388.99
13 Acetonitrile	39	2.195	2.195	(0.525)	81163	200.000	194.11
14 Allyl Chloride	41	2.195	2.195	(0.525)	150748	20.0000	18.93
4 Propionitrile	54	3.653	3.653	(0.874)	85562	200.000	182.52
136 n-Hexane	57	2.768	2.768	(0.663)	65476	20.0000	19.79
72 trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	26140	20.0000	18.70
194 Acetaldehyde	44	1.209	1.209	(0.289)	32393	80.0000	100.98(M)
23 Chloroprene	53	1.767	1.767	(0.423)	27967	20.0000	17.90(M)
145 alpha-Methylstyrene	118	9.261	9.261	(0.958)	155968	20.0000	19.76
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	171978	20.0000	19.62
139 Diethyl ether	59	1.756	1.756	(0.420)	55275	20.0000	18.00
130 Ethyl Acetate	43	3.660	3.660	(0.876)	75163	20.0000	20.96
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	56242	20.0000	17.95
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	58073	20.0000	18.07
132 n-Butanol	56	5.268	5.268	(1.261)	15012	400.000	294.62
142 Tetrahydrofuran	42	3.848	3.848	(0.921)	28221	40.0000	47.81

150	Allyl alcohol	57	2.768	2.768 (0.663)	65476	400.000	366.93
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	331546	20.0000	19.32

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 2
Report Date: 27-Dec-2022 16:07

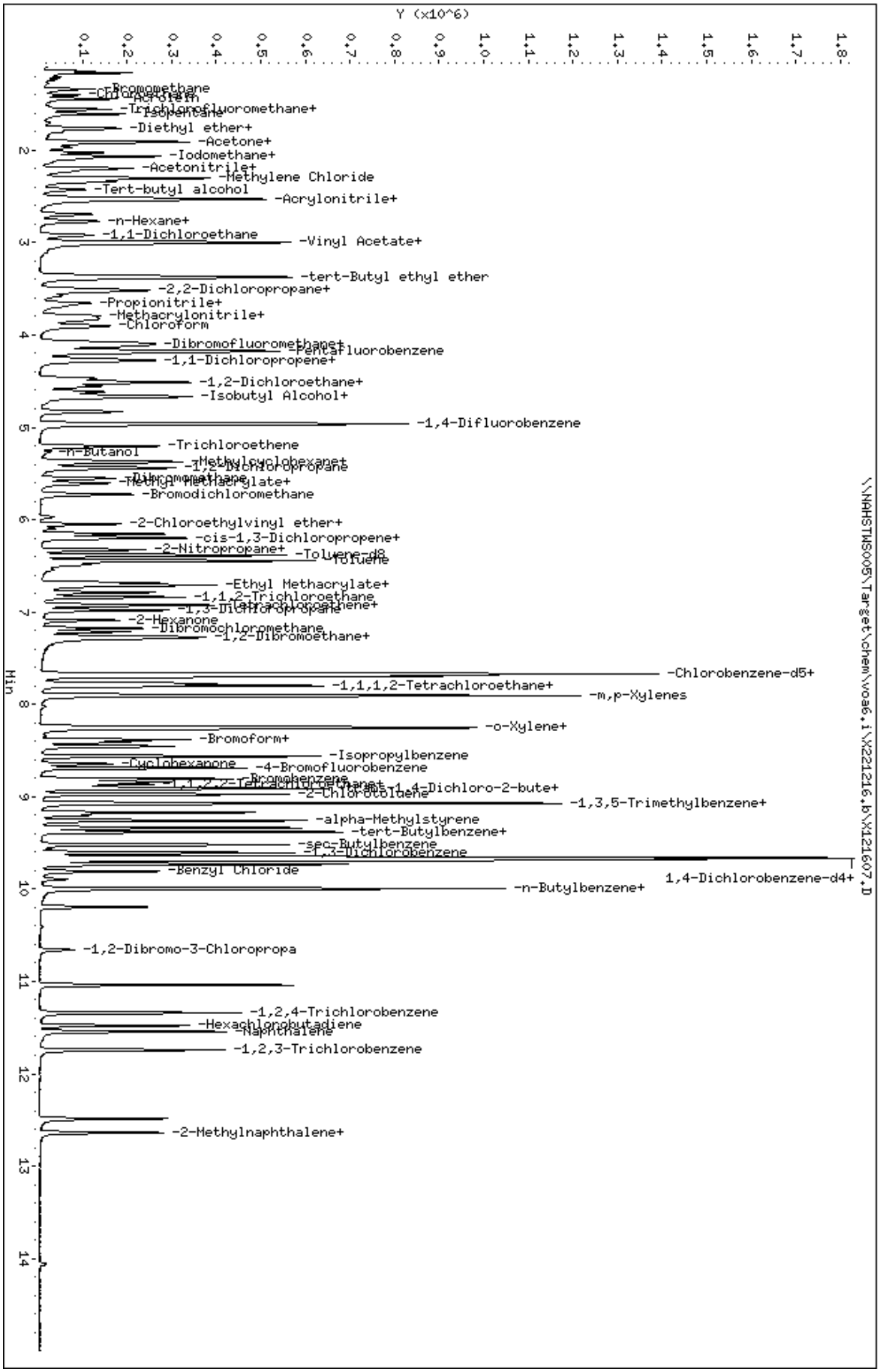
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	131 Methyl Acrylate	55	3.690	3.690	(0.883)	57874	20.0000	18.55(M)
	162 Butyl acrylate	55	8.252	8.252	(1.076)	156518	20.0000	18.50
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	63382	20.0000	19.96
	3 Chloromethane	50	1.077	1.077	(0.258)	72324	20.0000	18.84
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	74461	20.0000	18.55
	6 Bromomethane	94	1.340	1.340	(0.321)	52034	20.0000	18.30
	7 Chloroethane	64	1.400	1.400	(0.335)	52021	20.0000	18.62
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	106188	20.0000	18.90
	9 Acrolein	56	1.441	1.441	(0.345)	12279	40.0000	40.80
	10 Acetone	43	1.973	1.973	(0.472)	50987	40.0000	39.53
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	65650	20.0000	18.82
	15 Iodomethane	142	2.026	2.026	(0.485)	143457	40.0000	34.36
	16 Acrylonitrile	53	2.532	2.532	(0.606)	46552	40.0000	39.36
	17 Methylene Chloride	84	2.303	2.303	(0.551)	94402	20.0000	19.73
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	214504	20.0000	18.79
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	337289	40.0000	36.97
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	74471	20.0000	19.08
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	387538	40.0000	38.68
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	129644	20.0000	18.93
	24 2-Butanone	43	3.578	3.578	(0.856)	47830	40.0000	36.94(H)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	108952	20.0000	18.73
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	88894	20.0000	18.71
	28 Chloroform	83	3.904	3.904	(0.935)	145610	20.0000	18.96
	29 Bromochloromethane	128	3.795	3.795	(0.908)	47919	20.0000	18.42
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	90108	20.0000	20.32
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	116049	20.0000	19.05
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	93914	20.0000	19.38
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	108750	20.0000	19.45
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	93815	20.0000	18.13
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	92990	20.0000	20.13
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682389	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	313141	20.0000	19.21
	38 Trichloroethene	130	5.205	5.205	(1.048)	90292	20.0000	19.53
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	116178	20.0000	18.99
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	71559	40.0000	41.12
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	82954	20.0000	19.13
	44 Dibromomethane	93	5.553	5.553	(1.119)	57196	20.0000	19.41
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	138209	40.0000	39.93
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	142141	20.0000	19.79
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	647445	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	315179	20.0000	19.70
	50 Toluene	91	6.445	6.445	(0.841)	339968	20.0000	18.99
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	116330	20.0000	19.51
	52 2-Hexanone	43	7.086	7.086	(0.924)	93119	40.0000	39.54
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	69855	20.0000	19.45
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	137967	20.0000	19.52
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	100749	20.0000	19.44
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	74611	20.0000	20.15
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	88886	20.0000	19.80
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	66757	20.0000	20.24
	59 Chlorobenzene	112	7.694	7.694	(1.003)	240885	20.0000	18.97
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	90283	20.0000	19.11

61 Ethylbenzene	106	7.799	7.799 (1.017)	117560	20.0000	19.66
62 m,p-Xylenes	106	7.904	7.904 (1.031)	299082	40.0000	38.80

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	147602	20.0000	19.40
	64 Styrene	104	8.260	8.260	(1.077)	253280	20.0000	19.86
	66 Bromoform	173	8.410	8.410	(1.097)	69137	20.0000	19.25
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	344283	20.0000	19.80
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	112594	20.0000	19.83
$	69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	116878	20.0000	19.58
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356229	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	76967	20.0000	19.41
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	404399	20.0000	20.49
	74 Bromobenzene	156	8.803	8.803	(0.911)	117586	20.0000	20.11
	75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	295026	20.0000	20.23
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	256591	20.0000	19.81
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	294244	20.0000	19.93
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	242174	20.0000	20.29
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	305461	20.0000	19.91
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	326826	20.0000	20.58
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	294187	20.0000	20.67
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	197278	20.0000	20.33
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	207572	20.0000	19.60
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	163895	20.0000	17.99
	87 n-Butylbenzene	91	9.995	9.995	(1.035)	248190	20.0000	19.23
	88 1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	201166	20.0000	20.13
	89 1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	18635	20.0000	20.58
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	130463	20.0000	20.69
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	55912	20.0000	20.12
	92 Naphthalene	128	11.544	11.544	(1.195)	300432	20.0000	20.94
	93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	124401	20.0000	20.60
M	94 1,2-Dichloroethylene (total)	96				163365	40.0000	
M	95 Xylenes (total)	106				446684	60.0000	
	141 Cyclohexane	56	4.118	4.118	(0.986)	84355	20.0000	19.01(M)
	138 Freon TF	101	1.910	1.910	(0.457)	64657	20.0000	19.17
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	172044	20.0000	20.59
	146 Methyl Acetate	43	2.228	2.228	(0.533)	38475	20.0000	18.61
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	117583	400.000	369.63
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	61646	400.000	371.06

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6.i
Operator: PC
Column diameter: 0.18
Page 1
Bromomethane
Chloroethane
Acrolein
Trichlorofluoromethane+
Isopentane
Diethyl ether+
Acetone+
Iodomethane+
Acetonitrile+
Methylene Chloride
Tert-butyl alcohol
Acrylonitrile+
n-Hexane+
1,1-Dichloroethane
Vinyl Acetate+
tert-Butyl ethyl ether
2,2-Dichloropropane+
Propionitrile+
Methacrylonitrile+
Chloroform
Dibromofluoromethane+
Pentafluorobenzene
1,1-Dichloropropene+
1,2-Dichloroethane+
Isobutyl Alcohol+
1,4-Difluorobenzene
Trichloroethene
n-Butanol
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Dibromomethane
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Bromodichloromethane
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Toluene-d8
Toluene
Ethyl Methacrylate+
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Cyclohexanone
4-Bromofluorobenzene
Bromobenzene
1,1,2,2-Tetrachloroethane
1,4-Dichloro-2-bute+
2-Chlorotoluene
1,3,5-Trimethylbenzene+
alpha-Methylstyrene
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1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
Benzyl Chloride
n-Butylbenzene+
1,2-Dibromo-3-Chloropropa
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Naphthalene
1,2,3-Trichlorobenzene
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Inj Date : 16-DEC-2022 13:43
InstruID : voa6.i
LabSampID : VSTD020

Chloroprene (126-99-8)

Reason Code:

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27-Dec-2022
16:03
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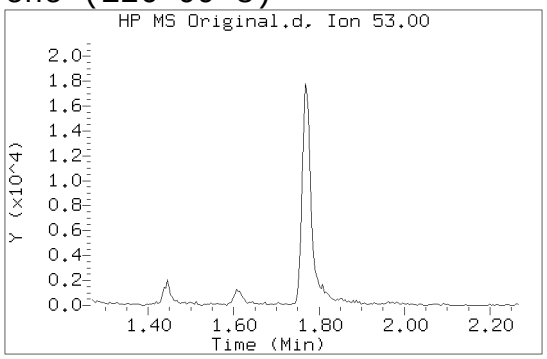

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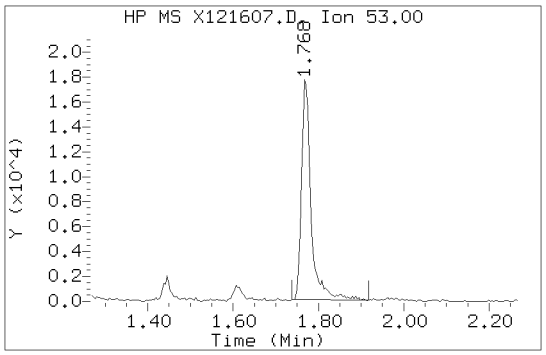

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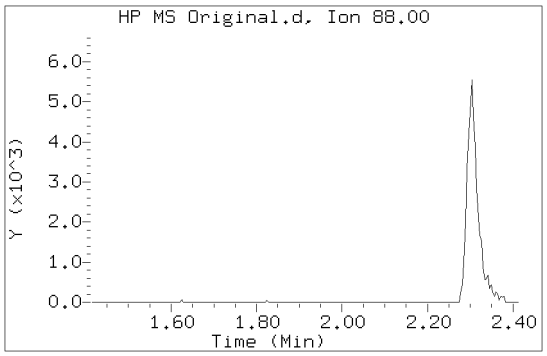

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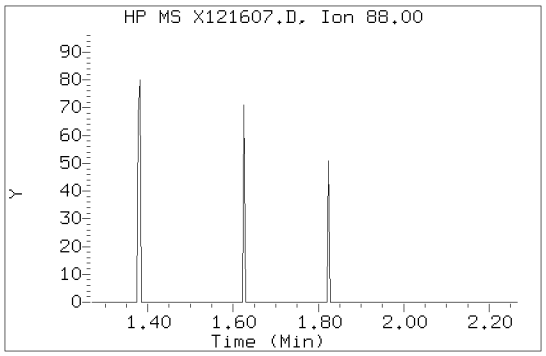

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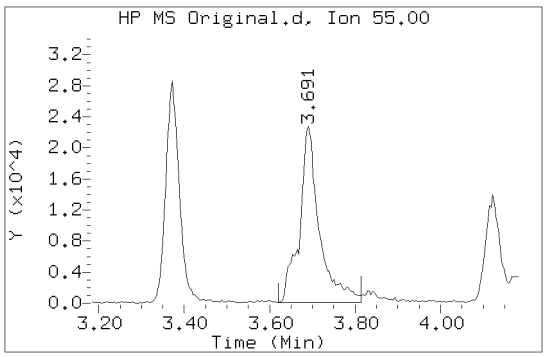

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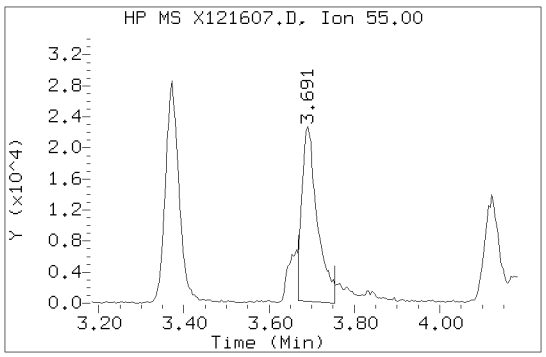

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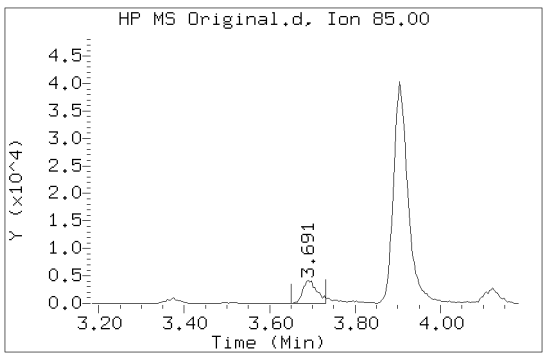

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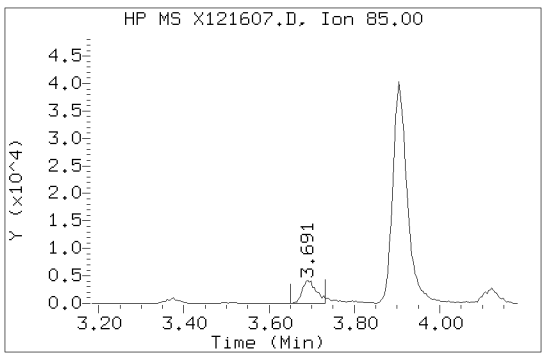

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Inj Date : 16-DEC-2022 13:43
InstruID : voa6.i
LabSampID : VSTD020

1,4-Dioxane ()

Reason Code:

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27-Dec-2022
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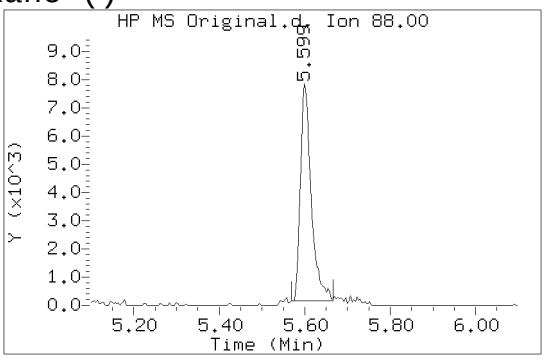

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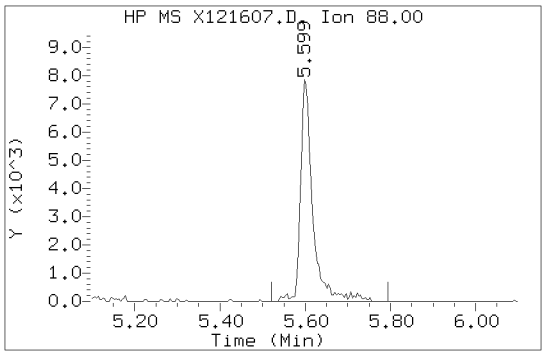

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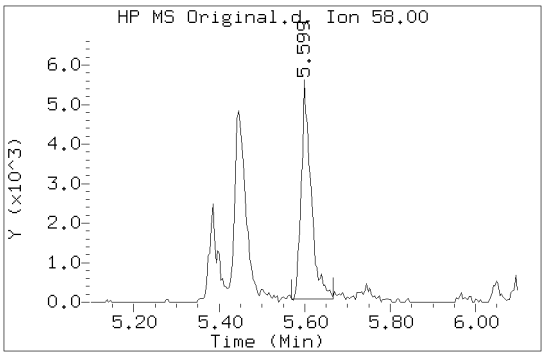

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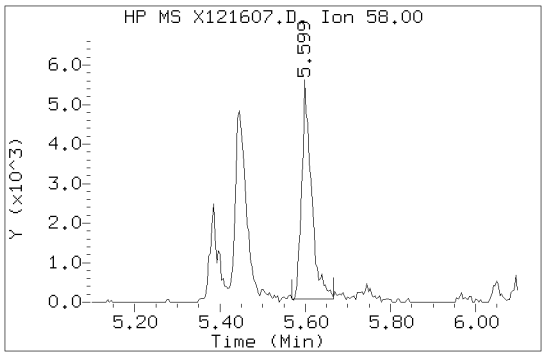

Cyclohexane (110-82-7)

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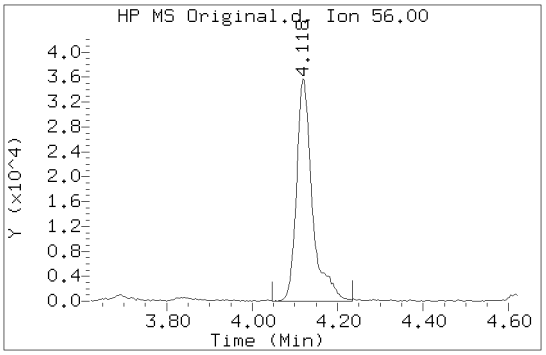

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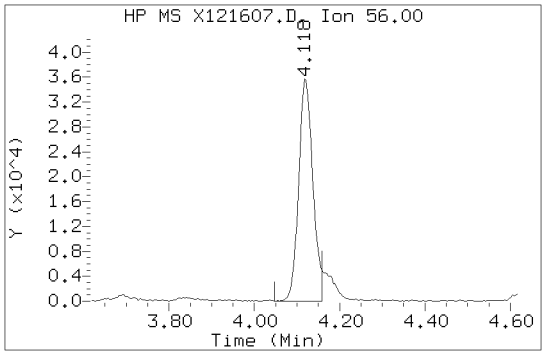

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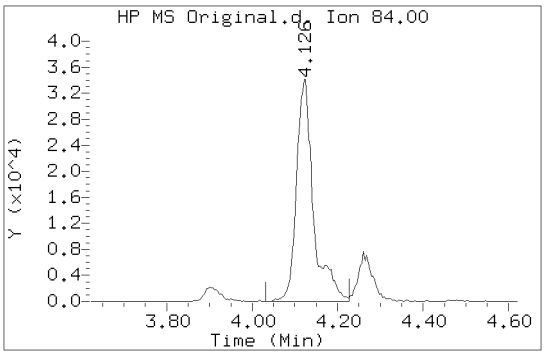

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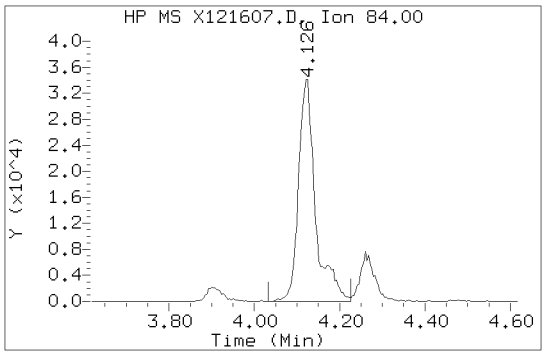

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Inj Date : 16-DEC-2022 13:43
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LabSampID : VSTD020

Cyclohexane (110-82-7)

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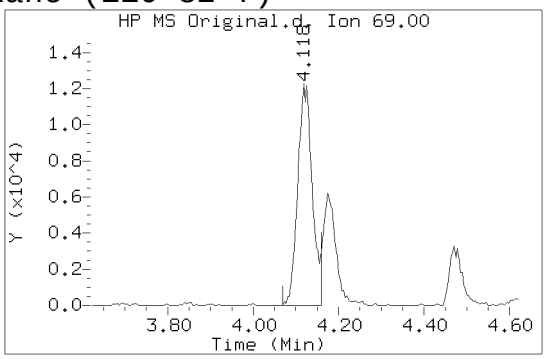

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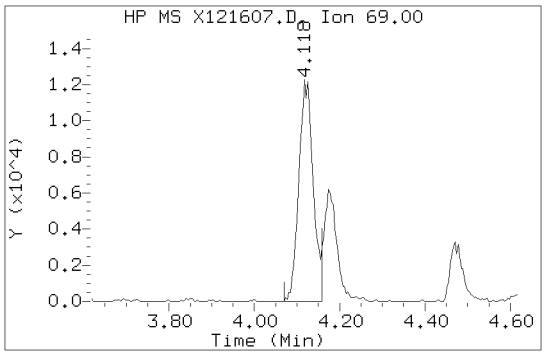

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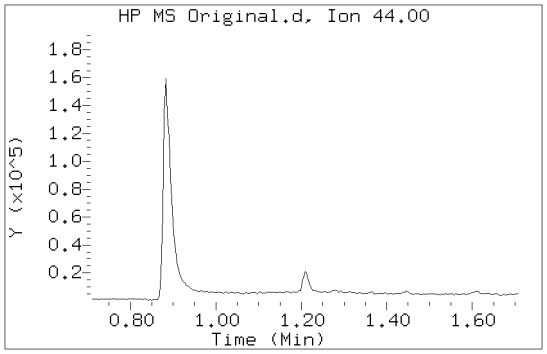

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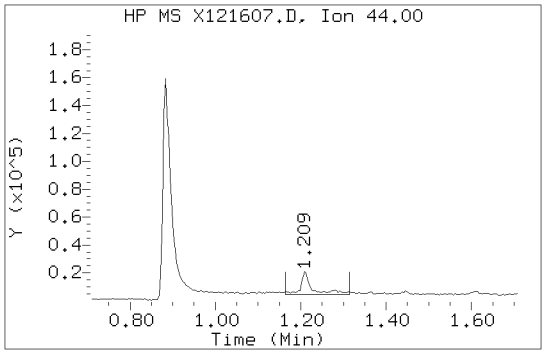

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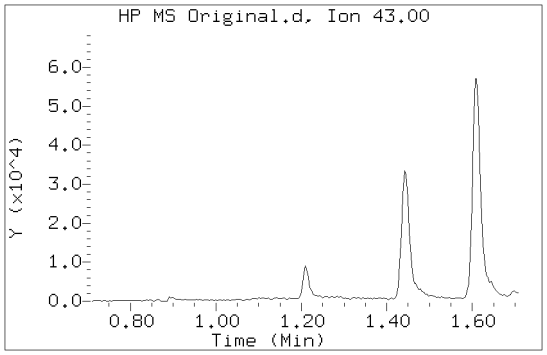

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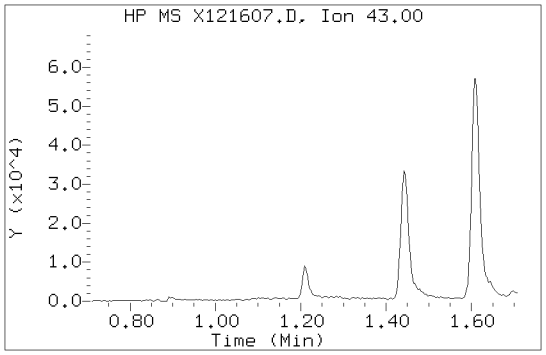

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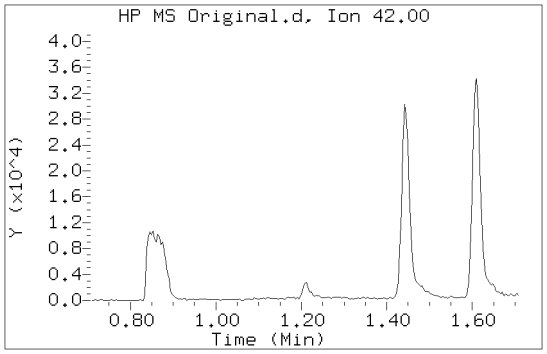

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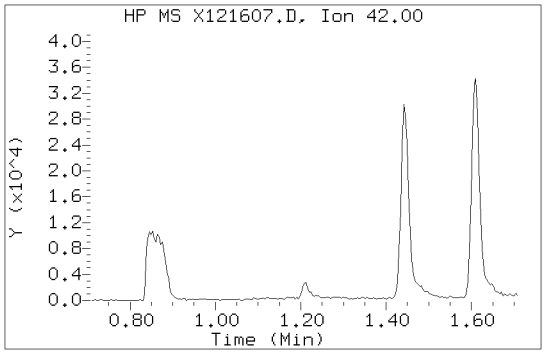

ALS Laboratory Group

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Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 13:43 Cal File: X121607.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	457591	50.0000	
135 1,4-Dioxane	88	5.595	5.595	(1.339)	40509	1000.00	968.45
140 1,3-Butadiene	54	1.160	1.160	(0.278)	152324	50.0000	48.50
25 Methacrylonitrile	41	3.821	3.821	(0.915)	147931	50.0000	45.65
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	499872	1000.00	971.21
13 Acetonitrile	39	2.195	2.195	(0.525)	202696	500.000	486.70
14 Allyl Chloride	41	2.195	2.195	(0.525)	372130	50.0000	46.91
4 Propionitrile	54	3.645	3.645	(0.873)	221995	500.000	475.45
136 n-Hexane	57	2.768	2.768	(0.663)	182358	50.0000	55.34
72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	70497	50.0000	50.03
194 Acetaldehyde	44	1.209	1.209	(0.289)	67188	200.000	235.49(M)
23 Chloroprene	53	1.767	1.767	(0.423)	73877	50.0000	47.48(M)
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	423646	50.0000	51.17
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	438695	50.0000	49.65
139 Diethyl ether	59	1.756	1.756	(0.420)	141705	50.0000	46.34
130 Ethyl Acetate	43	3.649	3.649	(0.873)	170590	50.0000	47.77
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	147516	50.0000	47.27
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	144135	50.0000	44.17
132 n-Butanol	56	5.253	5.253	(1.257)	54418	1000.00	935.85
142 Tetrahydrofuran	42	3.844	3.844	(0.920)	58181	100.000	102.34

150	Allyl alcohol	57	2.768	2.768 (0.663)	182358	1000.00	1026.00
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	826758	50.0000	45.95

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 2
Report Date: 27-Dec-2022 16:07

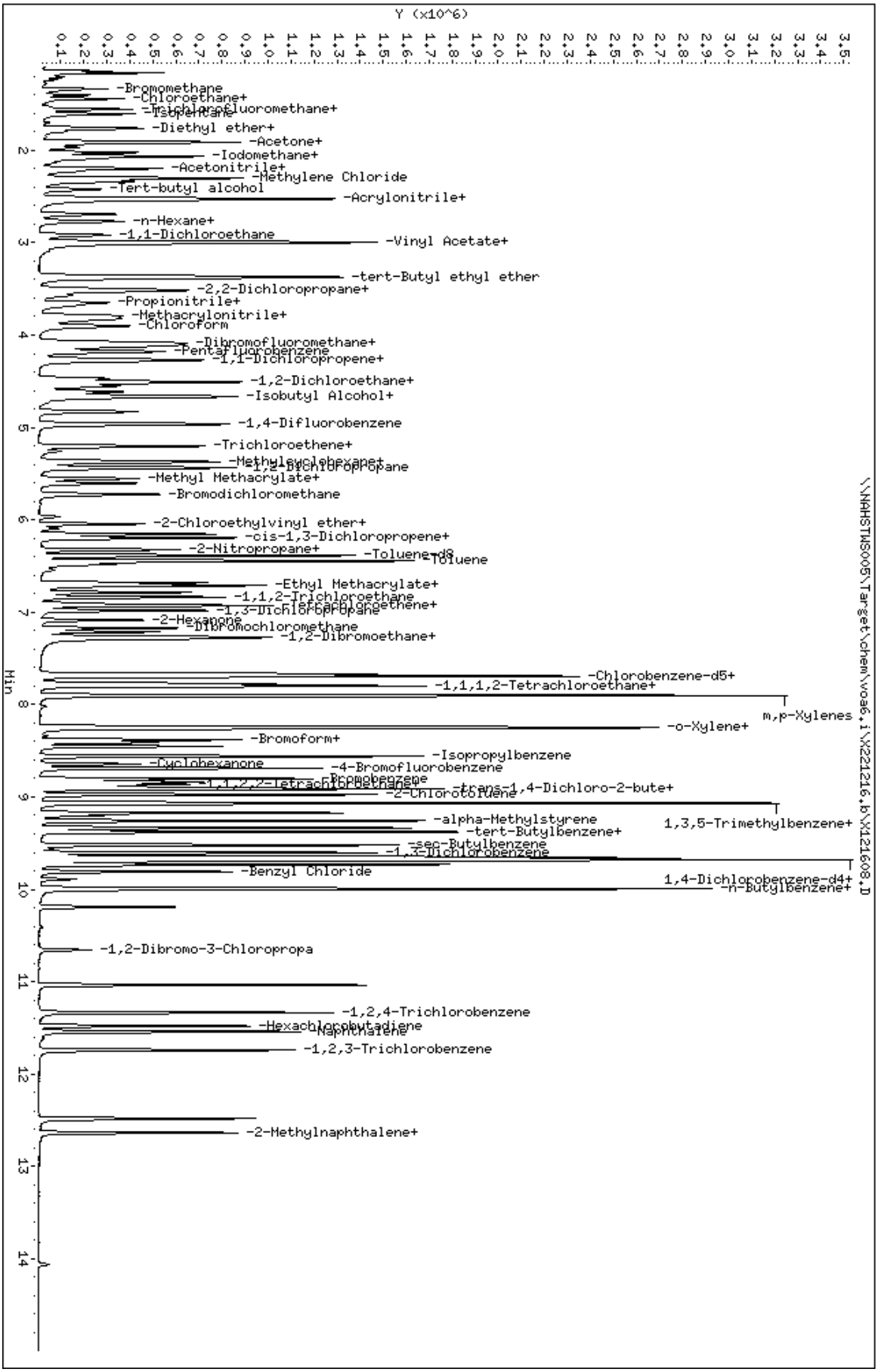
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	131 Methyl Acrylate	55	3.683	3.683	(0.882)	151068	50.0000	48.62(M)
	162 Butyl acrylate	55	8.252	8.252	(1.076)	415774	50.0000	48.76
	2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	160392	50.0000	50.11
	3 Chloromethane	50	1.077	1.077	(0.258)	192710	50.0000	46.69
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	201812	50.0000	50.48
	6 Bromomethane	94	1.336	1.336	(0.320)	139689	50.0000	46.33
	7 Chloroethane	64	1.400	1.400	(0.335)	134745	50.0000	48.43
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	278013	50.0000	49.70
	9 Acrolein	56	1.441	1.441	(0.345)	27445	100.000	88.04
	10 Acetone	43	1.970	1.970	(0.472)	124798	100.000	97.19
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	168905	50.0000	48.63
	15 Iodomethane	142	2.022	2.022	(0.484)	455792	100.000	99.60
	16 Acrylonitrile	53	2.528	2.528	(0.605)	118697	100.000	100.77
	17 Methylene Chloride	84	2.300	2.300	(0.550)	225642	50.0000	47.36
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	534667	50.0000	47.03
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	892690	100.000	98.24
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	191505	50.0000	49.27
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	983875	100.000	98.59
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	330037	50.0000	48.38
	24 2-Butanone	43	3.574	3.574	(0.856)	130179	100.000	95.71(H)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	283996	50.0000	49.03
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	228729	50.0000	48.35
	28 Chloroform	83	3.904	3.904	(0.935)	370755	50.0000	48.49
	29 Bromochloromethane	128	3.788	3.788	(0.907)	120638	50.0000	46.58
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	211939	50.0000	48.23
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	300650	50.0000	49.56
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	256928	50.0000	52.23
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	276500	50.0000	48.70
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	251833	50.0000	47.94
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	222293	50.0000	47.94
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	692830	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	812279	50.0000	49.09
	38 Trichloroethene	130	5.205	5.205	(1.048)	233833	50.0000	49.83
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	297315	50.0000	47.88
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	180920	100.000	102.42
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	215079	50.0000	48.87
	44 Dibromomethane	93	5.553	5.553	(1.119)	143223	50.0000	47.87
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	336990	100.000	96.59
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	366231	50.0000	50.22
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	652727	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	772486	50.0000	47.89
	50 Toluene	91	6.446	6.446	(0.841)	889029	50.0000	49.27
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	309568	50.0000	51.15
	52 2-Hexanone	43	7.087	7.087	(0.924)	232879	100.000	98.10
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	172833	50.0000	47.75
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	345991	50.0000	48.56
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	260477	50.0000	49.86
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	194749	50.0000	52.17
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	229442	50.0000	50.70
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	170128	50.0000	50.81
	59 Chlorobenzene	112	7.694	7.694	(1.003)	624151	50.0000	48.77
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	235373	50.0000	49.42

61 Ethylbenzene	106	7.799	7.799 (1.017)	311983	50.0000	51.75
62 m,p-Xylenes	106	7.904	7.904 (1.031)	785955	100.000	101.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	385427	50.0000	50.25
	64 Styrene	104	8.260	8.260	(1.077)	673066	50.0000	52.35
	66 Bromoform	173	8.410	8.410	(1.097)	181492	50.0000	50.14
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	920845	50.0000	52.55
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	276483	50.0000	46.43
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	292753	50.0000	48.55
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	373588	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	199888	50.0000	48.08(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1085689	50.0000	52.46
	74 Bromobenzene	156	8.803	8.803	(0.911)	299078	50.0000	48.79
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	793494	50.0000	51.90
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	670422	50.0000	49.37
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	782927	50.0000	50.57
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	652461	50.0000	52.14
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	815460	50.0000	50.69
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	889679	50.0000	53.43
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	810483	50.0000	54.32
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	520329	50.0000	51.14
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	544362	50.0000	49.03
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	472387	50.0000	46.44
	87 n-Butylbenzene	91	9.995	9.995	(1.035)	696355	50.0000	48.48
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	519532	50.0000	49.58
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48660	50.0000	51.11
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	355455	50.0000	53.75
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	155390	50.0000	52.99
	92 Naphthalene	128	11.540	11.540	(1.194)	799829	50.0000	53.16
	93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	320836	50.0000	50.66
M	94 1,2-Dichloroethylene (total)	96				420234	100.000	
M	95 Xylenes (total)	106				1171382	150.000	
	141 Cyclohexane	56	4.121	4.121	(0.987)	237699	50.0000	51.49
	138 Freon TF	101	1.913	1.913	(0.458)	172155	50.0000	51.25
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	420886	50.0000	49.62
	146 Methyl Acetate	43	2.228	2.228	(0.533)	96420	50.0000	46.82
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	302677	1000.00	955.26
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	157082	1000.00	949.28

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D
Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

BEFORE

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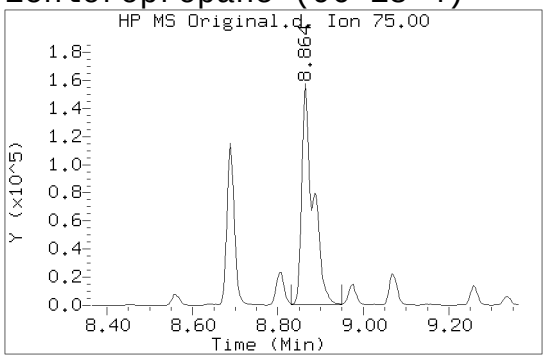
27-Dec-2022
16:03
linh
pham



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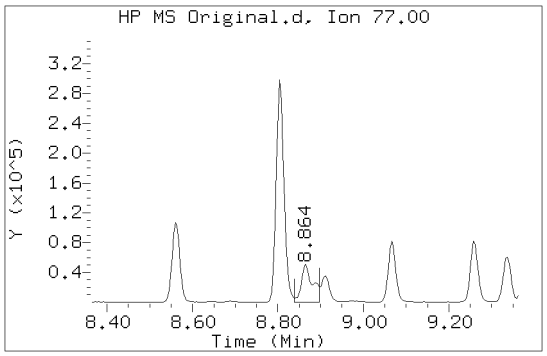

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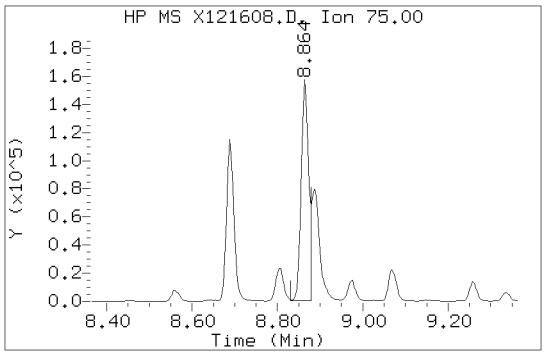

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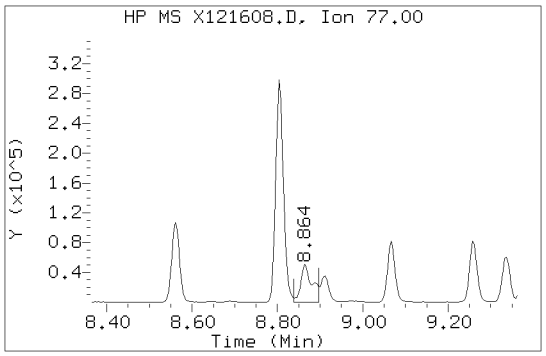

Chloroprene (126-99-8)

BEFORE

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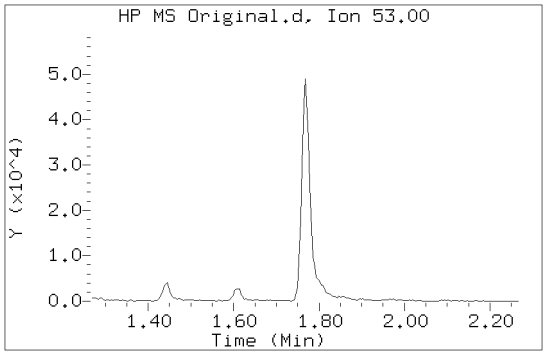

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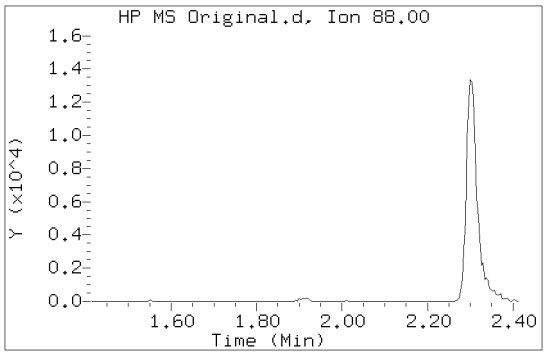

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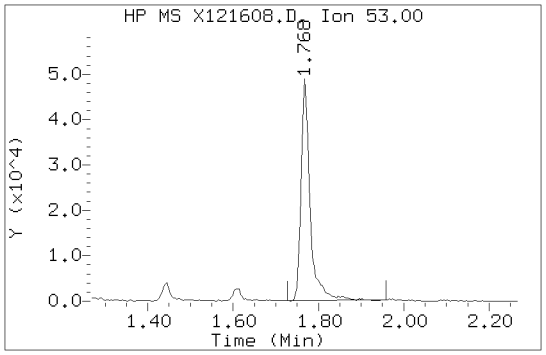

AFTER

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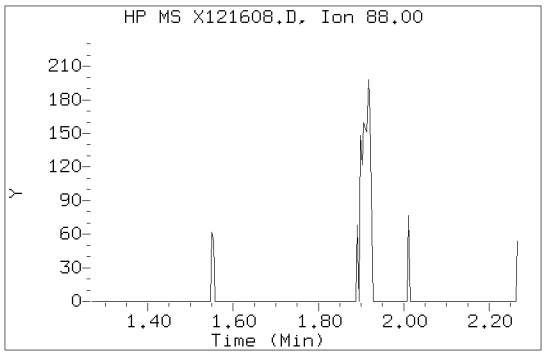

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Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

Methyl Acrylate (96-33-3)

BEFORE

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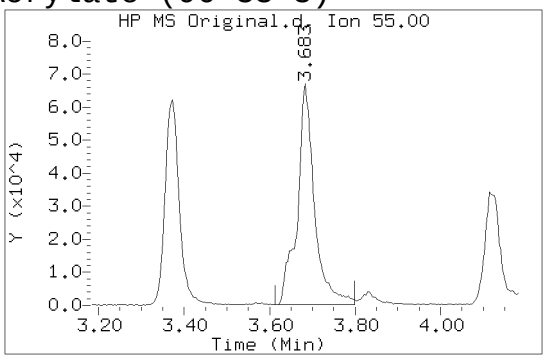

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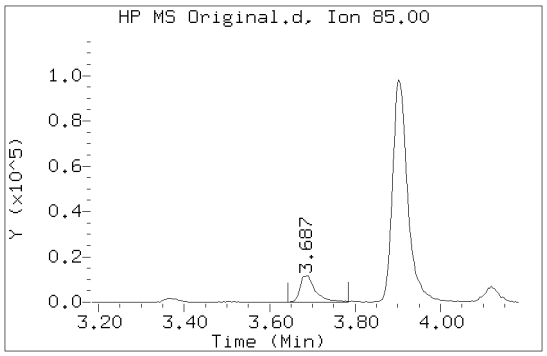

Reason Code:

AFTER

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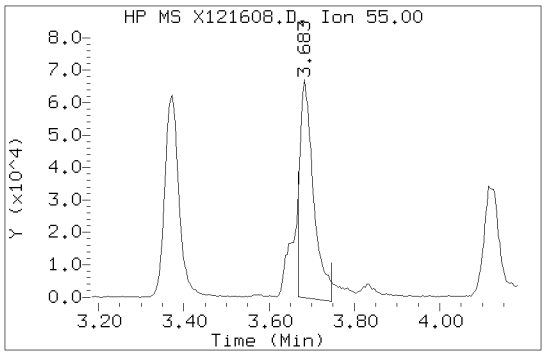

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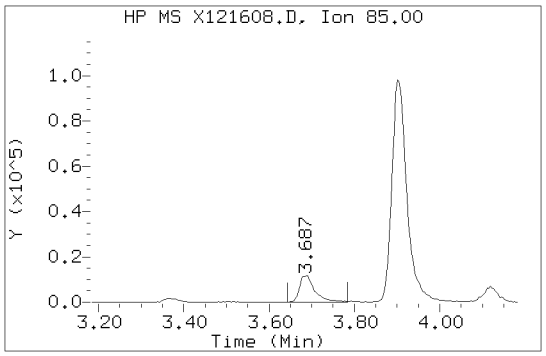

Acetaldehyde (75-07-0)

BEFORE

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16:03
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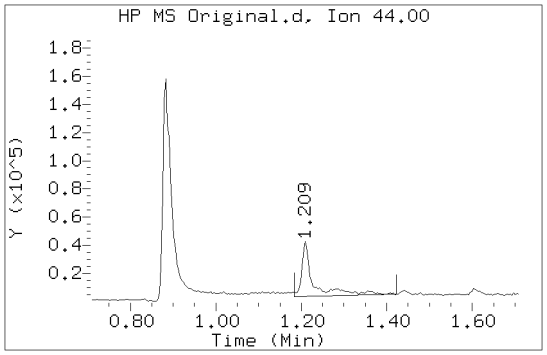

BEFORE

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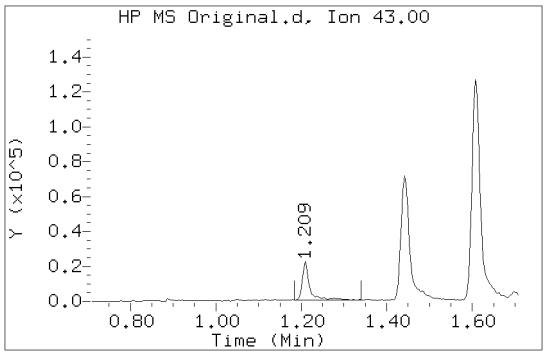

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AFTER

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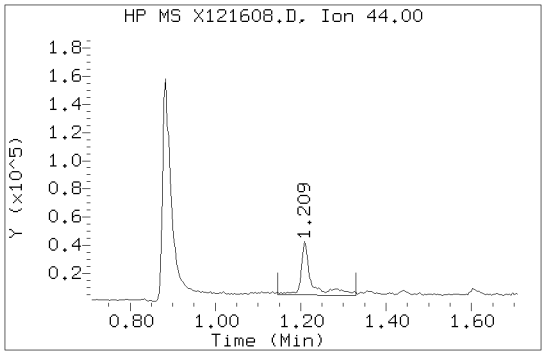

AFTER

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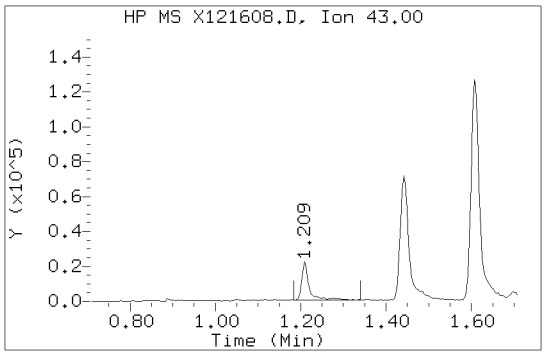

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InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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27-Dec-2022
16:03
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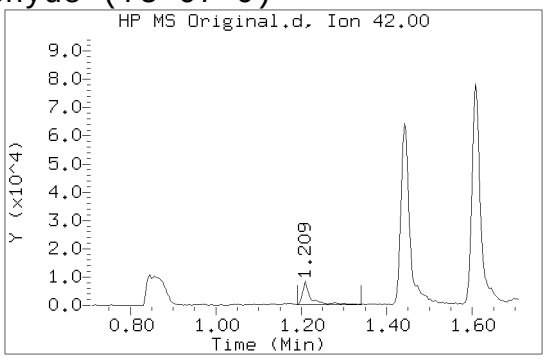

AFTER

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27-Dec-2022
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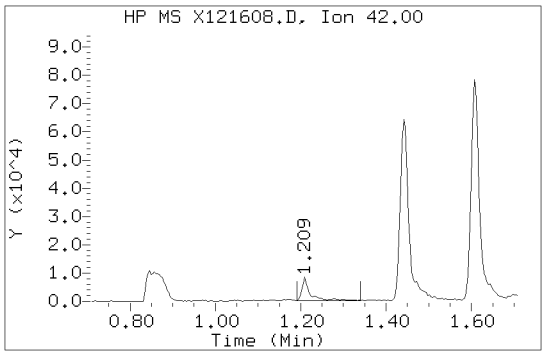

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Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D
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Inj Date : 16-DEC-2022 14:25
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	454640	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	80329	2000.00	1932.89
140 1,3-Butadiene	54	1.160	1.160	(0.278)	300004	100.000	96.14
25 Methacrylonitrile	41	3.822	3.822	(0.915)	296105	100.000	91.97
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	1010956	2000.00	1976.95
13 Acetonitrile	39	2.195	2.195	(0.525)	413876	1000.00	1000.23
14 Allyl Chloride	41	2.195	2.195	(0.525)	756242	100.000	95.96
4 Propionitrile	54	3.645	3.645	(0.873)	447087	1000.00	963.76
136 n-Hexane	57	2.768	2.768	(0.663)	330416	100.000	100.93
72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	144667	100.000	100.47
194 Acetaldehyde	44	1.209	1.209	(0.289)	107798	400.000	394.60(M)
23 Chloroprene	53	1.767	1.767	(0.423)	146540	100.000	94.79(M)
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	857105	100.000	100.18
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	912573	100.000	101.09
139 Diethyl ether	59	1.752	1.752	(0.420)	288002	100.000	94.80
130 Ethyl Acetate	43	3.649	3.649	(0.873)	318062	100.000	89.65
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	295199	100.000	95.22
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	311883	100.000	96.06
132 n-Butanol	56	5.253	5.253	(1.258)	124057	2000.00	1971.40
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	109518	200.000	196.74

150	Allyl alcohol	57	2.768	2.768 (0.663)	330416	2000.00	1871.09
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	1772216	100.000	95.31

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 2
Report Date: 27-Dec-2022 16:07

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	131	Methyl Acrylate	55	3.683	3.683	(0.882)	308372	100.000	99.90(M)
	162	Butyl acrylate	55	8.249	8.249	(1.076)	901265	100.000	103.44
	2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	309019	100.000	96.81
	3	Chloromethane	50	1.078	1.078	(0.258)	388163	100.000	92.40
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	390567	100.000	98.34
	6	Bromomethane	94	1.336	1.336	(0.320)	284165	100.000	93.02
	7	Chloroethane	64	1.400	1.400	(0.335)	261091	100.000	94.45
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	543907	100.000	97.86
	9	Acrolein	56	1.441	1.441	(0.345)	60756	200.000	192.70
	10	Acetone	43	1.970	1.970	(0.472)	243517	200.000	190.92
	11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	329394	100.000	95.46
	15	Iodomethane	142	2.026	2.026	(0.485)	958603	200.000	197.72
	16	Acrylonitrile	53	2.528	2.528	(0.605)	235604	200.000	201.32
	17	Methylene Chloride	84	2.300	2.300	(0.550)	423827	100.000	89.54
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1078258	100.000	95.46
	19	Carbon Disulfide	76	2.063	2.063	(0.494)	1765599	200.000	195.57
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	376933	100.000	97.60
	21	Vinyl Acetate	43	2.993	2.993	(0.716)	1955305	200.000	197.21
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	641083	100.000	94.59
	24	2-Butanone	43	3.570	3.570	(0.855)	264221	200.000	192.38(H)
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	554902	100.000	96.43
	27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	443532	100.000	94.37
	28	Chloroform	83	3.904	3.904	(0.935)	715830	100.000	94.23
	29	Bromochloromethane	128	3.792	3.792	(0.908)	239022	100.000	92.88
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	438954	100.000	100.72
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	583361	100.000	96.79
	32	1,1-Dichloropropene	75	4.275	4.275	(0.861)	496096	100.000	101.35
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	553661	100.000	98.01
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	487488	100.000	93.26
$	35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	455890	100.000	98.67
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	689427	50.0000	
	37	Benzene	78	4.508	4.508	(0.908)	1590142	100.000	96.58
	38	Trichloroethene	130	5.205	5.205	(1.048)	456948	100.000	97.85
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	587419	100.000	95.07
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	345852	200.000	196.75
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	420835	100.000	96.09
	44	Dibromomethane	93	5.550	5.550	(1.118)	280146	100.000	94.11
	45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	671115	200.000	188.25
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	735867	100.000	101.41
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	666948	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	1602890	100.000	97.25
	50	Toluene	91	6.446	6.446	(0.841)	1761917	100.000	95.57
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	618784	100.000	102.75
	52	2-Hexanone	43	7.087	7.087	(0.924)	458639	200.000	189.09
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	342194	100.000	92.52
	54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	682500	100.000	93.75
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	521219	100.000	97.64
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	373651	100.000	97.96
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	453499	100.000	98.07
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	326538	100.000	98.00
	59	Chlorobenzene	112	7.694	7.694	(1.003)	1229287	100.000	94.01
	60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	472962	100.000	97.19

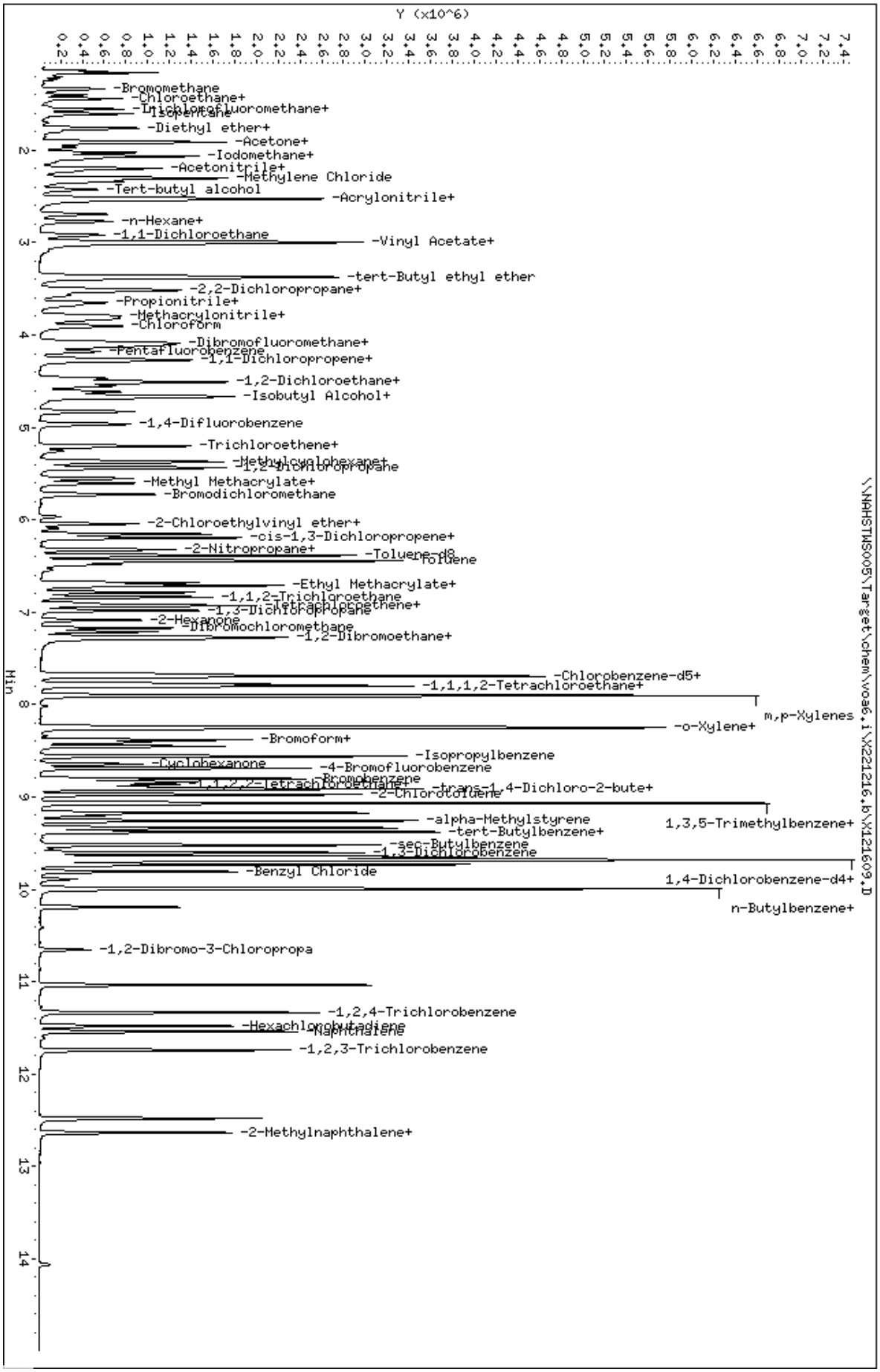
61 Ethylbenzene	106	7.799	7.799 (1.017)	612289	100.000	99.40
62 m,p-Xylenes	106	7.904	7.904 (1.031)	1556563	200.000	196.03

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 3
Report Date: 27-Dec-2022 16:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	767814	100.000	97.97
	64 Styrene	104	8.260	8.260	(1.077)	1350780	100.000	102.83
	66 Bromoform	173	8.410	8.410	(1.097)	367943	100.000	99.50
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1818857	100.000	101.58
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	554091	100.000	90.03
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	615584	100.000	99.86
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386107	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	407425	100.000	94.83(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	2152414	100.000	100.64
	74 Bromobenzene	156	8.803	8.803	(0.911)	602819	100.000	95.16
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1603520	100.000	101.49
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	1326500	100.000	94.51
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1587855	100.000	99.24
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	1287608	100.000	99.56
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1640529	100.000	98.68
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1778581	100.000	103.36
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	1606121	100.000	104.16
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	1039293	100.000	98.84
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1114780	100.000	97.16
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	1009234	100.000	94.18
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	1425779	100.000	94.31
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1054319	100.000	97.36
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	94321	100.000	95.78
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	697257	100.000	102.03
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	299042	100.000	97.63
	92 Naphthalene	128	11.540	11.540	(1.194)	1592534	100.000	102.42
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	642199	100.000	98.12
M	94 1,2-Dichloroethylene (total)	96				820465	200.000	
M	95 Xylenes (total)	106				2324377	300.000	
	141 Cyclohexane	56	4.118	4.118	(0.986)	432198	100.000	93.19
	138 Freon TF	101	1.913	1.913	(0.458)	327614	100.000	98.16
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	862071	100.000	102.15(A)
	146 Methyl Acetate	43	2.228	2.228	(0.533)	196542	100.000	96.07
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	592215	2000.00	1881.19
	149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	321288	2000.00	1954.21

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 16-DEC-2022 14:25
Client ID: WSTD100
Sample Info: WSTD100;WSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

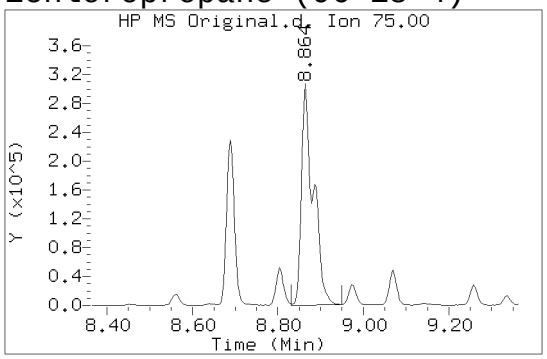
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D
Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

1,2,3-Trichloropropane (96-18-4)

Reason Code:

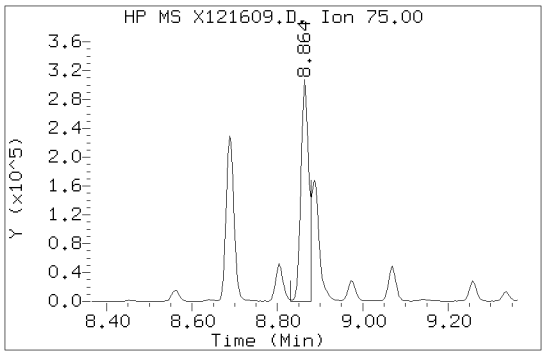
BEFORE

MASS
75
AREA
602953
HEIGHT
307037
27-Dec-2022
16:03
linh
pham



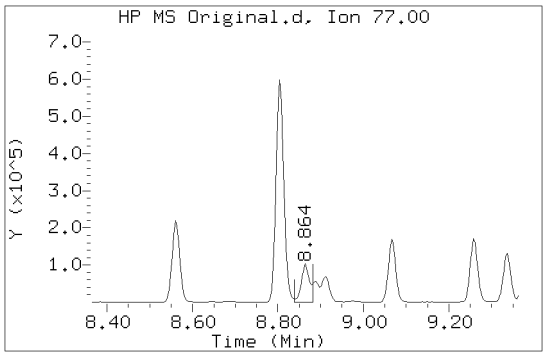
AFTER

MASS
75
AREA
407425
HEIGHT
307037
27-Dec-2022
16:06
linh
pham



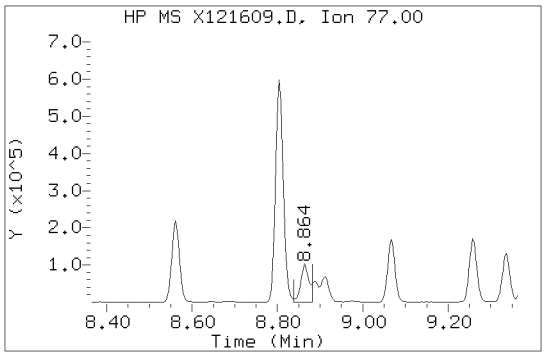
BEFORE

MASS
77
AREA
149362
HEIGHT
103354
27-Dec-2022
16:03
linh
pham



AFTER

MASS
77
AREA
149362
HEIGHT
103354
27-Dec-2022
16:06
linh
pham

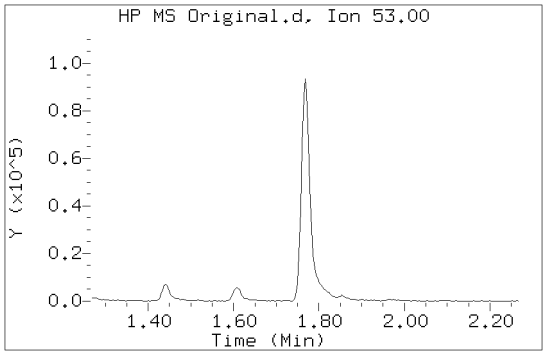


Chloroprene (126-99-8)

Reason Code:

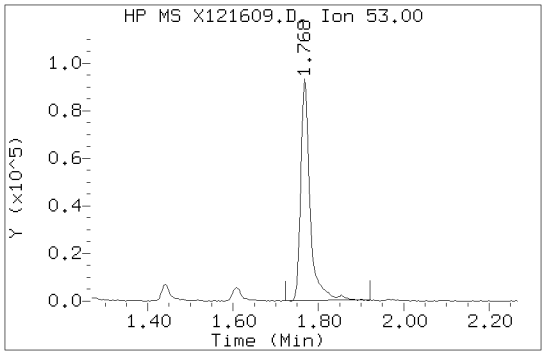
BEFORE

MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



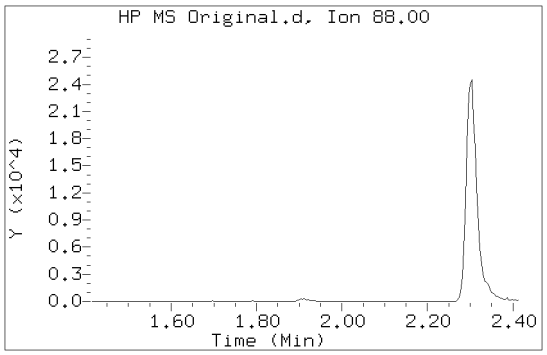
AFTER

MASS
53
AREA
146540
HEIGHT
93219
27-Dec-2022
16:06
linh
pham



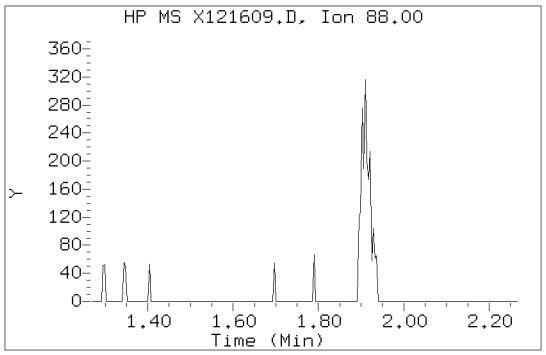
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:06
linh
pham



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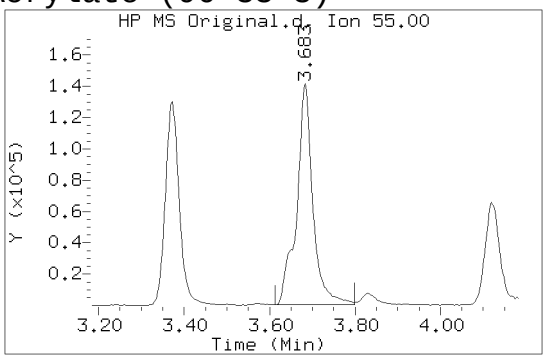
Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Methyl Acrylate (96-33-3)

Reason Code:

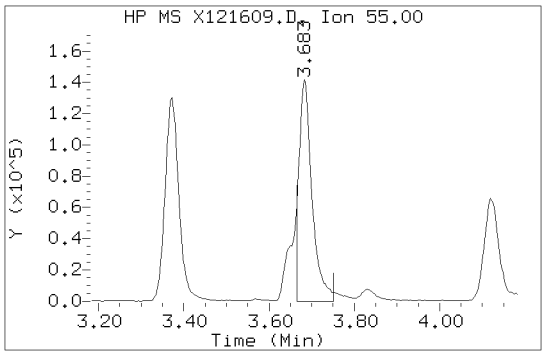
BEFORE

MASS
55
AREA
380041
HEIGHT
141345
27-Dec-2022
16:03
linh
pham



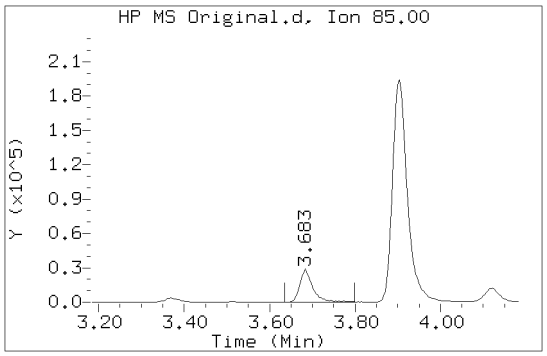
AFTER

MASS
55
AREA
308372
HEIGHT
141781
27-Dec-2022
16:06
linh
pham



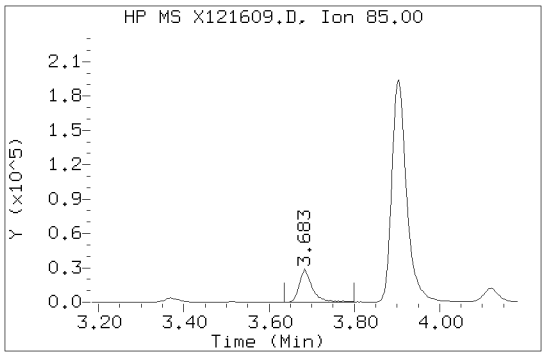
BEFORE

MASS
85
AREA
62241
HEIGHT
29192
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
62241
HEIGHT
29192
27-Dec-2022
16:06
linh
pham



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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44
AREA
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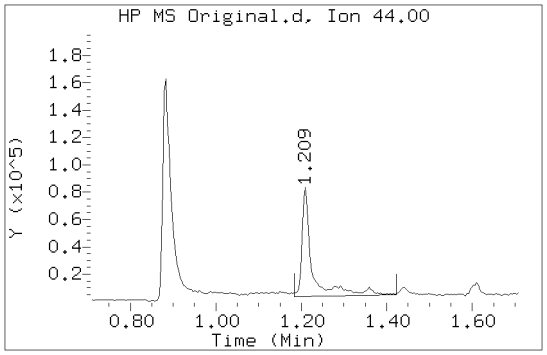
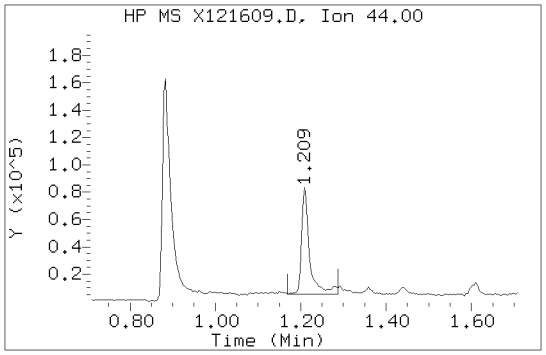
HEIGHT
79995
27-Dec-2022
16:03
linh
pham



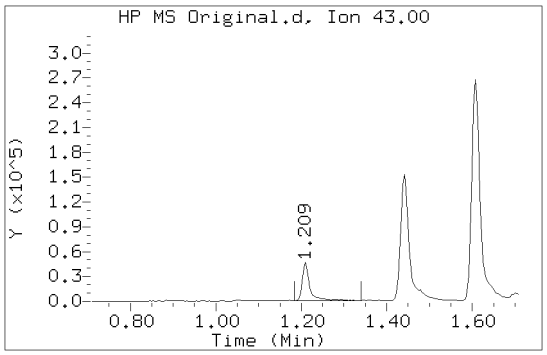
AFTER

MASS
44
AREA
107798
HEIGHT
78310
27-Dec-2022
16:06
linh
pham



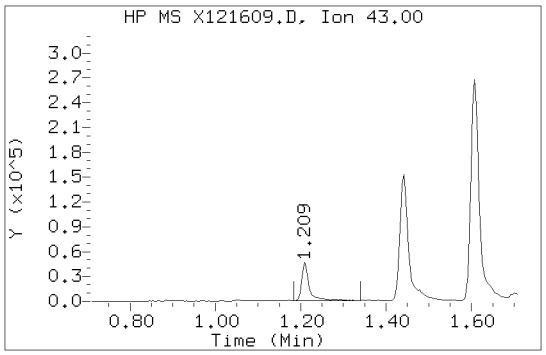
BEFORE

MASS
43
AREA
58307
HEIGHT
46134
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
58307
HEIGHT
46134
27-Dec-2022
16:06
linh
pham



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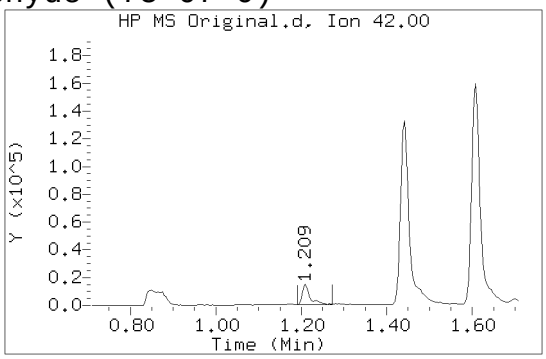
Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

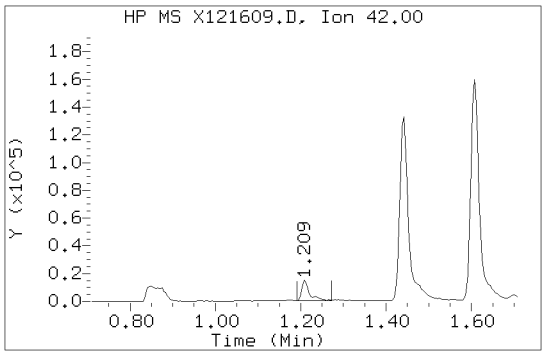
BEFORE

MASS
42
AREA
19613
HEIGHT
14674
27-Dec-2022
16:03
linh
pham



AFTER

MASS
42
AREA
19613
HEIGHT
14674
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 16-DEC-2022 14:46
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:25 Cal File: X121609.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.177	4.177	(1.000)	447266	50.0000	
135	1,4-Dioxane	88	5.598	5.598	(1.340)	128845	3000.00	3151.41
140	1,3-Butadiene	54	1.160	1.160	(0.278)	468966	150.000	152.77
25	Methacrylonitrile	41	3.818	3.818	(0.914)	457301	150.000	144.39
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	1595753	3000.00	3171.99
13	Acetonitrile	39	2.194	2.194	(0.525)	642798	1500.00	1579.09
14	Allyl Chloride	41	2.194	2.194	(0.525)	1164663	150.000	150.22
4	Propionitrile	54	3.649	3.649	(0.873)	694740	1500.00	1522.31
136	n-Hexane	57	2.768	2.768	(0.663)	533876	150.000	165.78
72	trans-1,4-Dichloro-2-butene	53	8.889	8.889	(1.159)	234252	150.000	161.53
194	Acetaldehyde	44	1.209	1.209	(0.289)	161053	600.000	611.34(M)
23	Chloroprene	53	1.767	1.767	(0.423)	225733	150.000	148.43
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1351001	150.000	157.73
200	Dimethyl Disulfide	94	6.198	6.198	(0.808)	1420820	150.000	156.27
139	Diethyl ether	59	1.752	1.752	(0.419)	443624	150.000	148.44
130	Ethyl Acetate	43	3.649	3.649	(0.873)	516433	150.000	147.97
40	Methyl Methacrylate	41	5.602	5.602	(1.341)	465959	150.000	152.78
49	Ethyl Methacrylate	69	6.712	6.712	(1.352)	517063	150.000	157.90
132	n-Butanol	56	5.253	5.253	(1.258)	210842	3000.00	3100.52
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	162133	300.000	297.65

150	Allyl alcohol	57	2.768	2.768 (0.663)	533876	3000.00	3073.09
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	2744011	150.000	147.41

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 2
Report Date: 27-Dec-2022 16:07

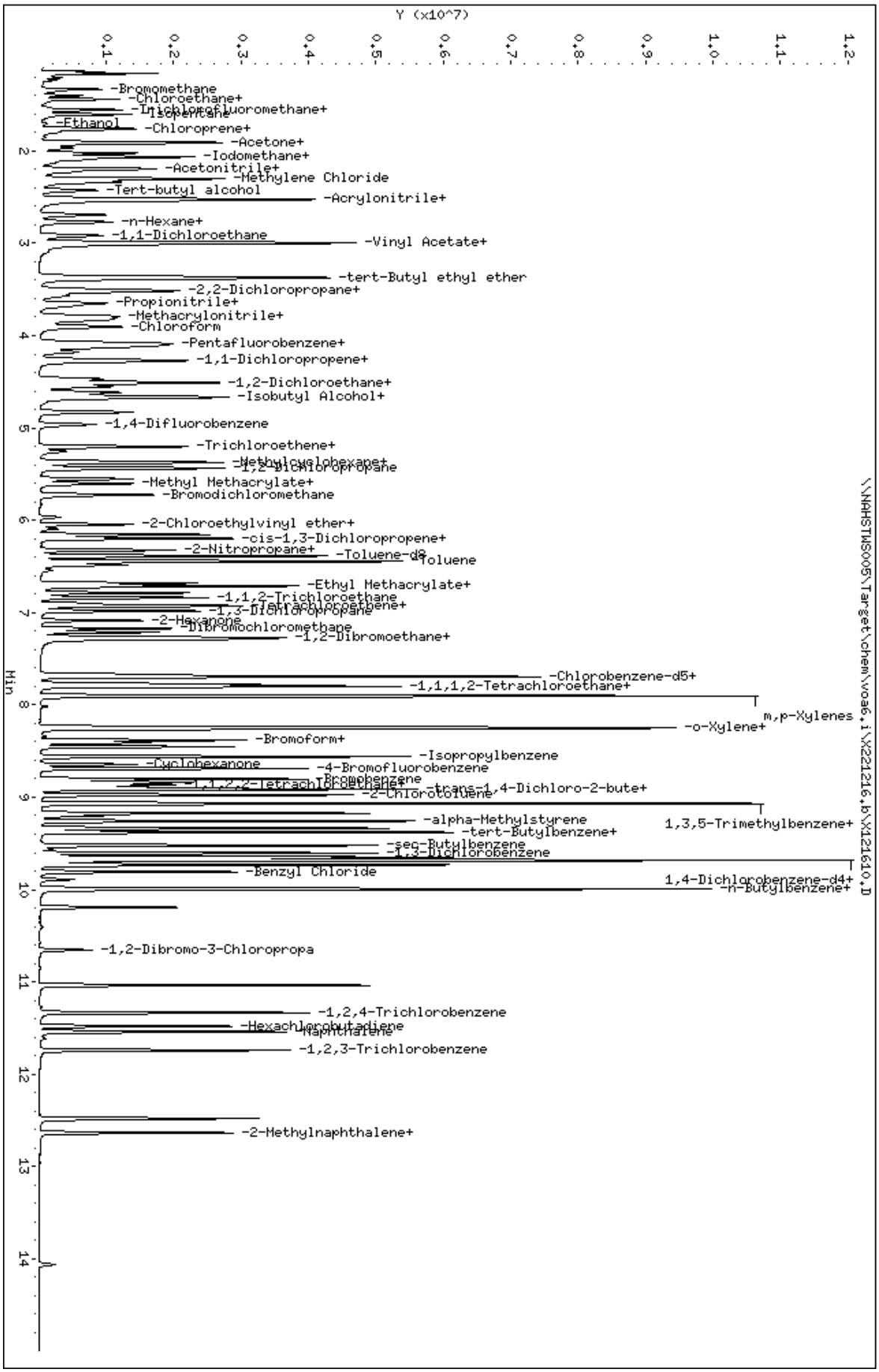
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	131	Methyl Acrylate	55	3.683	3.683	(0.882)	479571	150.000	157.93(M)
	162	Butyl acrylate	55	8.248	8.248	(1.076)	1470193	150.000	167.53
	2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	476130	150.000	151.40
	3	Chloromethane	50	1.077	1.077	(0.258)	621048	150.000	148.89
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	602774	150.000	154.27
	6	Bromomethane	94	1.332	1.332	(0.319)	470318	150.000	155.29
	7	Chloroethane	64	1.400	1.400	(0.335)	409168	150.000	150.45
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	866865	150.000	158.54
	9	Acrolein	56	1.441	1.441	(0.345)	96139	300.000	308.25
	10	Acetone	43	1.969	1.969	(0.472)	373504	300.000	297.68
	11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	516820	150.000	152.24
	15	Iodomethane	142	2.022	2.022	(0.484)	1554547	300.000	304.69
	16	Acrylonitrile	53	2.528	2.528	(0.605)	371872	300.000	323.00
	17	Methylene Chloride	84	2.299	2.299	(0.550)	656037	150.000	140.89
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1661314	150.000	149.51
	19	Carbon Disulfide	76	2.063	2.063	(0.494)	2747788	300.000	309.38
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	579939	150.000	152.65
	21	Vinyl Acetate	43	2.993	2.993	(0.716)	3127175	300.000	320.61
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	993924	150.000	149.06
	24	2-Butanone	43	3.570	3.570	(0.855)	407629	300.000	299.97(H)
	26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	858853	150.000	151.71
	27	cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	693846	150.000	150.07
	28	Chloroform	83	3.904	3.904	(0.935)	1135322	150.000	151.92
	29	Bromochloromethane	128	3.791	3.791	(0.908)	379595	150.000	149.95
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	652724	150.000	152.32
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	907111	150.000	152.99
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	766313	150.000	155.22
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	857022	150.000	150.42
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	758288	150.000	143.83
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	686218	150.000	150.83
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	695375	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	2450385	150.000	147.56
	38	Trichloroethene	130	5.205	5.205	(1.048)	707016	150.000	150.11
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	932632	150.000	149.65
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	534005	300.000	301.19
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	658007	150.000	148.96
	44	Dibromomethane	93	5.549	5.549	(1.118)	444851	150.000	148.16
	45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1052577	300.000	293.14
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1159982	150.000	158.49
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	671780	50.0000	
$	48	Toluene-d8	98	6.385	6.385	(0.833)	2346444	150.000	141.35
	50	Toluene	91	6.445	6.445	(0.841)	2724692	150.000	146.73
	51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	982044	150.000	161.68
	52	2-Hexanone	43	7.086	7.086	(0.924)	738082	300.000	302.12
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	540625	150.000	145.13
	54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	1079961	150.000	147.29
	55	Dibromochloromethane	129	7.176	7.176	(0.936)	822094	150.000	152.90
	56	Tetrachloroethene	164	6.929	6.929	(0.904)	574499	150.000	149.53
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	715678	150.000	153.66
	58	1-Chlorohexane	55	7.697	7.697	(1.550)	522502	150.000	155.48
	59	Chlorobenzene	112	7.694	7.694	(1.003)	1944205	150.000	147.62
	60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	744470	150.000	151.89

61 Ethylbenzene	106	7.799	7.799 (1.017)	946928	150.000	152.63
62 m,p-Xylenes	106	7.904	7.904 (1.031)	2421267	300.000	302.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	1210374	150.000	153.33
	64 Styrene	104	8.260	8.260	(1.077)	2169528	150.000	163.97
	66 Bromoform	173	8.410	8.410	(1.097)	588916	150.000	158.11
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	2877359	150.000	159.55
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	873933	150.000	141.84
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	936681	150.000	150.82
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386546	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	702545	150.000	163.33
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	3370402	150.000	157.41
	74 Bromobenzene	156	8.803	8.803	(0.911)	952608	150.000	150.20
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2529726	150.000	159.93
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	2083510	150.000	148.28
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	2540753	150.000	158.62
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	2055293	150.000	158.74
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2613455	150.000	157.03
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	2819238	150.000	163.65
	82 p-Isopropyltoluene	119	9.650	9.650	(0.999)	2542764	150.000	164.71
	83 1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	1650440	150.000	156.79
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	1766146	150.000	153.76
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	1650494	150.000	151.23
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	2293126	150.000	150.43
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1672283	150.000	154.25
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	149691	150.000	151.78
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1094701	150.000	160.01
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	466452	150.000	150.10
	92 Naphthalene	128	11.540	11.540	(1.194)	2498440	150.000	160.50
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	991236	150.000	151.28
M	94 1,2-Dichloroethylene (total)	96				1273785	300.000	
M	95 Xylenes (total)	106				3631641	450.000	
	141 Cyclohexane	56	4.117	4.117	(0.986)	682728	150.000	148.87
	138 Freon TF	101	1.910	1.910	(0.457)	517229	150.000	157.53
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	1358300	150.000	159.57(A)
	146 Methyl Acetate	43	2.224	2.224	(0.533)	301298	150.000	149.70
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	962267	3000.00	3107.07
	149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	514966	3000.00	3183.89

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: WSTD150
Sample Info: WSTD150;WSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D
Inj Date : 16-DEC-2022 14:46
InstruID : voa6.i
LabSampID : VSTD150

Methyl Acrylate (96-33-3)

BEFORE

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27-Dec-2022
16:04
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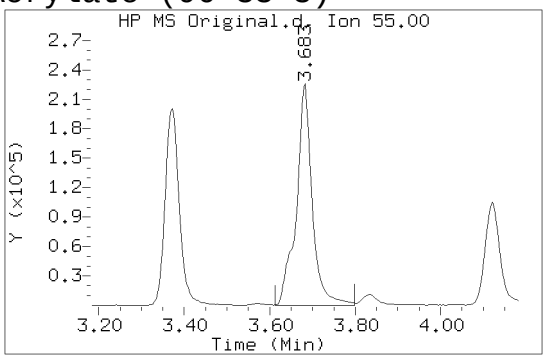
pham



BEFORE

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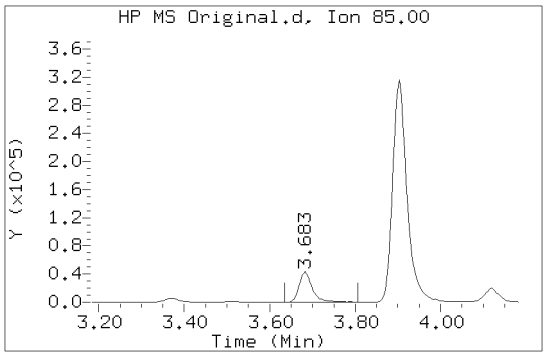

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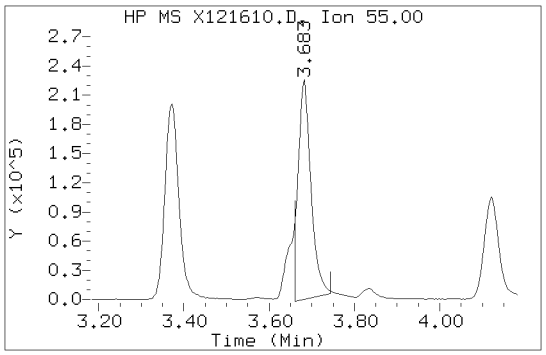

AFTER

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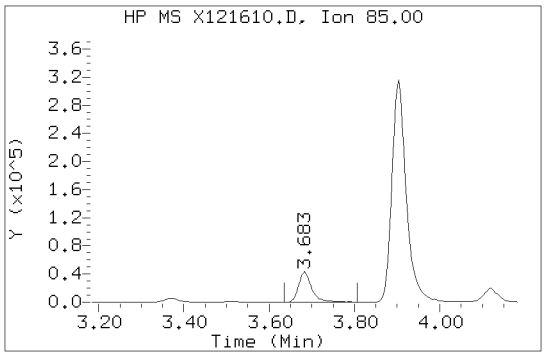

Acetaldehyde (75-07-0)

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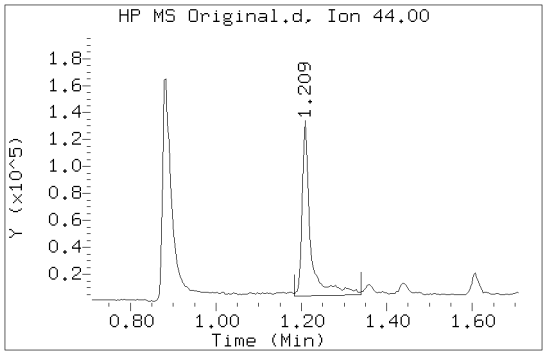

BEFORE

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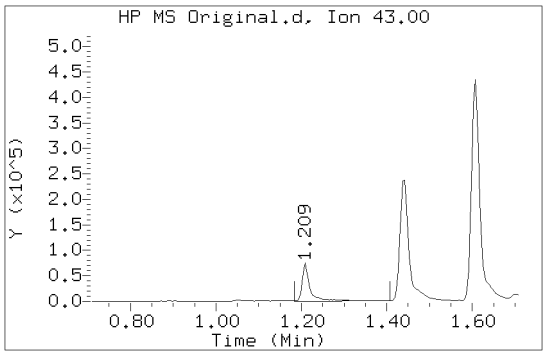

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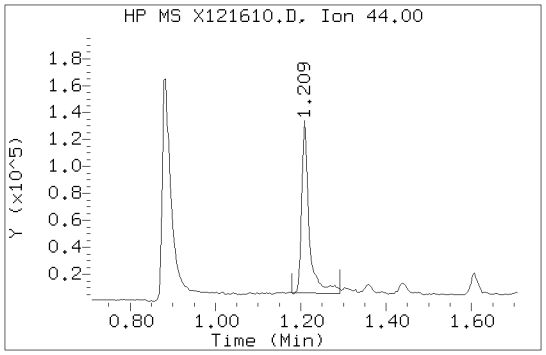

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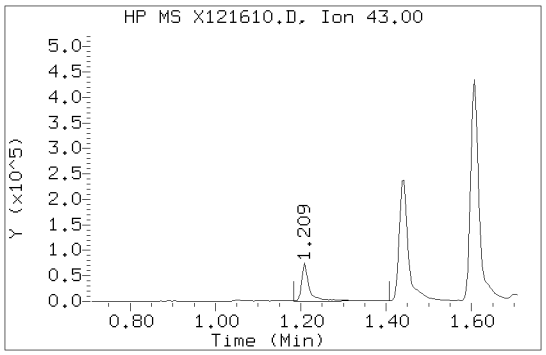

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Inj Date : 16-DEC-2022 14:46
InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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27-Dec-2022
16:04
linh
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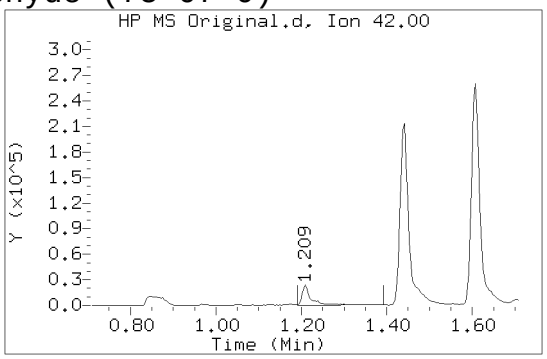

AFTER

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27-Dec-2022
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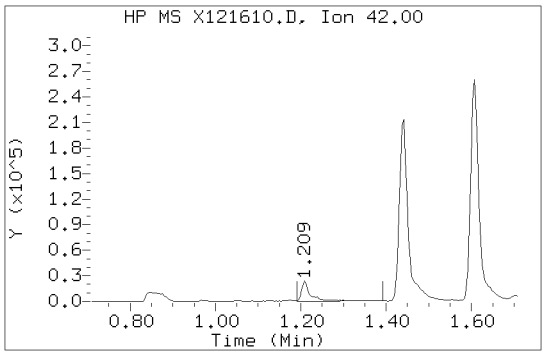


Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 16-DEC-2022 15:07
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:46 Cal File: X121610.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	450847	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	179280	4000.00	4350.17(A)
140 1,3-Butadiene	54	1.160	1.160	(0.278)	646265	200.000	208.86(A)
25 Methacrylonitrile	41	3.814	3.814	(0.913)	619479	200.000	194.04
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	2146631	4000.00	4233.12(A)
13 Acetonitrile	39	2.195	2.195	(0.525)	854153	2000.00	2081.63(A)
14 Allyl Chloride	41	2.195	2.195	(0.525)	1558053	200.000	199.36
4 Propionitrile	54	3.649	3.649	(0.873)	933721	2000.00	2029.71(A)
136 n-Hexane	57	2.768	2.768	(0.663)	726173	200.000	223.70(A)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	324976	200.000	217.73(A)
194 Acetaldehyde	44	1.209	1.209	(0.289)	205547	800.000	780.23(M)
23 Chloroprene	53	1.767	1.767	(0.423)	315248	200.000	205.64(A)
145 alpha-Methylstyrene	118	9.261	9.261	(0.958)	1880547	200.000	211.54(A)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	1929723	200.000	206.22(A)
139 Diethyl ether	59	1.752	1.752	(0.419)	595638	200.000	197.72
130 Ethyl Acetate	43	3.649	3.649	(0.873)	706790	200.000	200.90(A)
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	643877	200.000	209.45(A)
49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	735246	200.000	222.23(A)
132 n-Butanol	56	5.253	5.253	(1.258)	297334	4000.00	3955.86
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	219995	400.000	401.77(A)

150 Allyl alcohol	57	2.768	2.768 (0.663)	726173	4000.00	4146.79(A)
166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	3701988	200.000	191.61

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 2
Report Date: 27-Dec-2022 16:07

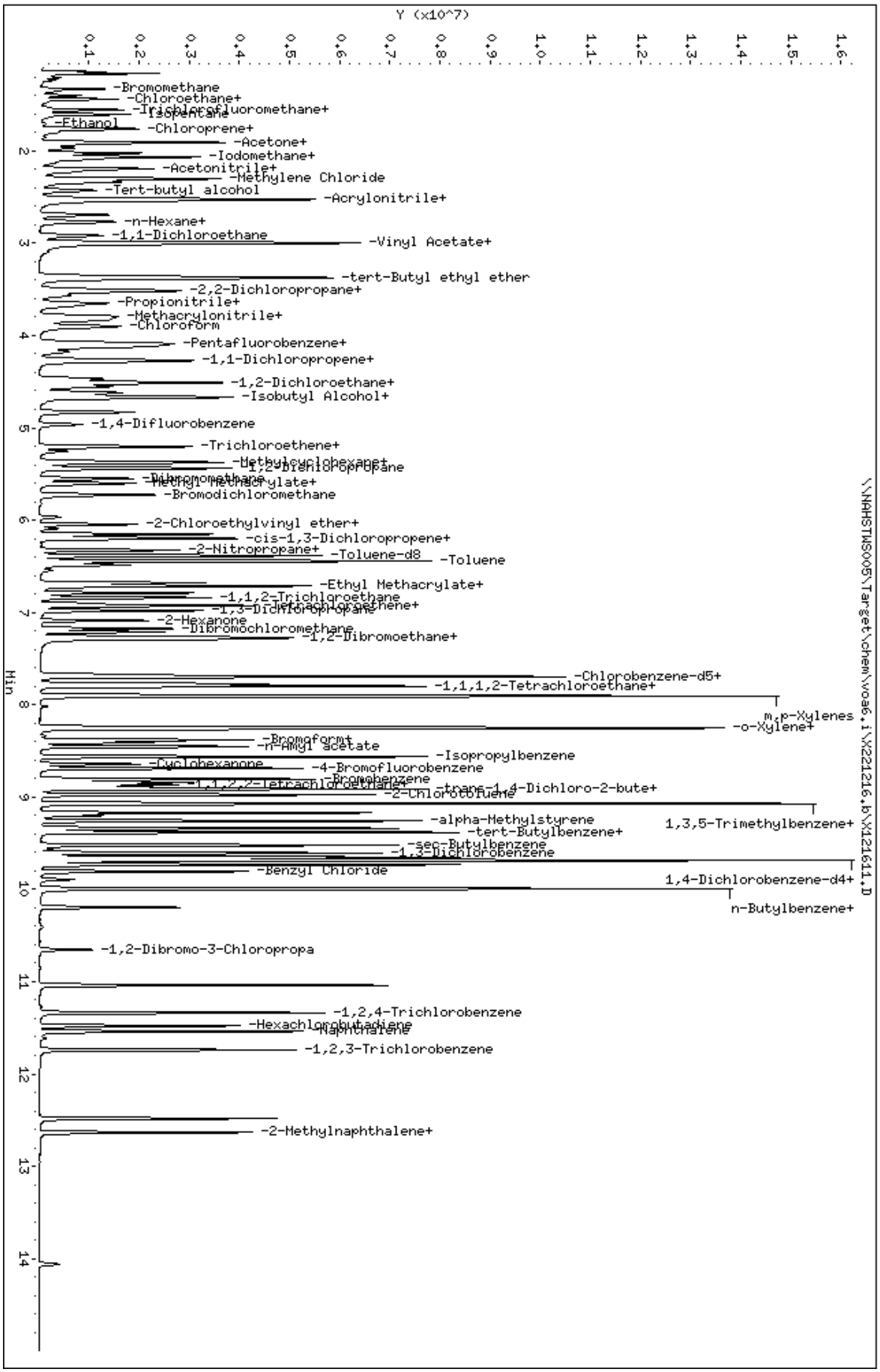
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	131 Methyl Acrylate	55	3.683	3.683	(0.882)	646827	200.000	211.32(AM)
	162 Butyl acrylate	55	8.252	8.252	(1.076)	2063916	200.000	228.52(A)
	2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	635808	200.000	200.44(A)
	3 Chloromethane	50	1.074	1.074	(0.257)	865151	200.000	204.92(A)
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	827926	200.000	210.21(A)
	6 Bromomethane	94	1.329	1.329	(0.318)	666705	200.000	217.67(A)
	7 Chloroethane	64	1.396	1.396	(0.334)	548415	200.000	200.06(A)
	8 Trichlorofluoromethane	101	1.553	1.553	(0.372)	1173529	200.000	212.92(A)
	9 Acrolein	56	1.437	1.437	(0.344)	125874	400.000	399.54
	10 Acetone	43	1.970	1.970	(0.472)	514105	400.000	406.50(A)
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	704695	200.000	205.94(A)
	15 Iodomethane	142	2.022	2.022	(0.484)	2193685	400.000	398.07
	16 Acrylonitrile	53	2.528	2.528	(0.605)	504850	400.000	435.02(A)
	17 Methylene Chloride	84	2.299	2.299	(0.550)	863945	200.000	184.07
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	2237559	200.000	199.78
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	3829593	400.000	427.76(A)
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	785444	200.000	205.10(A)
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	4210603	400.000	428.26(A)
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	1342786	200.000	199.79
	24 2-Butanone	43	3.570	3.570	(0.855)	555896	400.000	404.77(AH)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	1175128	200.000	205.93(A)
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	927934	200.000	199.10
	28 Chloroform	83	3.904	3.904	(0.935)	1523082	200.000	202.19(A)
	29 Bromochloromethane	128	3.791	3.791	(0.908)	510028	200.000	199.87
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	856027	200.000	198.23
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	1257327	200.000	210.37(A)
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1048877	200.000	210.29(A)
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	1153034	200.000	200.31(A)
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	1051824	200.000	197.48
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	919752	200.000	200.47(A)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	702551	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	3321582	200.000	197.98
	38 Trichloroethene	130	5.205	5.205	(1.048)	973709	200.000	204.62(A)
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	1264834	200.000	200.88(A)
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	729151	400.000	407.06(A)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	895211	200.000	200.59(A)
	44 Dibromomethane	93	5.550	5.550	(1.118)	600170	200.000	197.85
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1447268	400.000	391.63
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1583645	200.000	214.16(A)
*	47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	691386	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.832)	3061758	200.000	179.21
	50 Toluene	91	6.445	6.445	(0.840)	3757557	200.000	196.62
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	1365007	200.000	222.44(A)
	52 2-Hexanone	43	7.086	7.086	(0.924)	1026898	400.000	408.42(A)
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	736981	200.000	192.23
	54 1,3-Dichloropropane	76	6.982	6.982	(0.910)	1482067	200.000	196.39
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	1128140	200.000	203.88(A)
	56 Tetrachloroethene	164	6.929	6.929	(0.903)	798932	200.000	202.05(A)
	57 1,2-Dibromoethane	107	7.259	7.259	(0.946)	970608	200.000	202.48(A)
	58 1-Chlorohexane	55	7.698	7.698	(1.550)	746326	200.000	219.81(A)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	2696715	200.000	198.95
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	1028448	200.000	203.88(A)

61 Ethylbenzene	106	7.799	7.799 (1.017)	1312165	200.000	205.50(A)
62 m,p-Xylenes	106	7.904	7.904 (1.030)	3401207	400.000	413.22(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
63	o-Xylene	106	8.241	8.241	(1.074)	1701245	200.000	209.41(A)
64	Styrene	104	8.260	8.260	(1.077)	3030858	200.000	222.58(A)
66	Bromoform	173	8.410	8.410	(1.096)	809693	200.000	211.22(A)
67	Isopropylbenzene	105	8.563	8.563	(1.116)	4031708	200.000	217.22(A)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	1186926	200.000	185.61
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.132)	1277239	200.000	199.81
* 70	1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	401196	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	864931	200.000	193.75(M)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	4694239	200.000	211.23(A)
74	Bromobenzene	156	8.807	8.807	(0.911)	1313631	200.000	199.57
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	3532485	200.000	215.17(A)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	2866849	200.000	196.59
77	4-Chlorotoluene	91	9.070	9.070	(0.938)	3546402	200.000	213.32(A)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2865820	200.000	213.26(A)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	3599947	200.000	208.40(A)
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	3952917	200.000	221.08(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	3537904	200.000	220.81(A)
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	2282597	200.000	208.93(A)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	2442324	200.000	204.86(A)
86	Benzyl Chloride	91	9.808	9.808	(1.279)	2286488	200.000	202.63(A)
87	n-Butylbenzene	91	9.995	9.995	(1.034)	3216534	200.000	202.68(A)
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	2296902	200.000	204.14(A)
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.102)	205063	200.000	200.30(A)
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1524896	200.000	214.75(A)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	654615	200.000	200.27(A)
92	Naphthalene	128	11.540	11.540	(1.194)	3413593	200.000	211.29(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.214)	1363987	200.000	200.56(A)
M 94	1,2-Dichloroethylene (total)	96				1713378	400.000	
M 95	Xylenes (total)	106				5102452	600.000	
141	Cyclohexane	56	4.121	4.121	(0.987)	943314	200.000	203.60(A)
138	Freon TF	101	1.910	1.910	(0.457)	714577	200.000	215.91(A)
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1829310	200.000	212.71(A)
146	Methyl Acetate	43	2.224	2.224	(0.533)	408781	200.000	201.49(A)
148	Tert-Butyl alcohol	59	2.431	2.431	(0.582)	1308623	4000.00	4191.87(A)
149	Isopropyl Alcohol	45	2.093	2.093	(0.501)	697543	4000.00	4278.45(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D
Inj Date : 16-DEC-2022 15:07
InstruID : voa6.i
LabSampID : VSTD200

1,2,3-Trichloropropane (96-18-4)

BEFORE

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75
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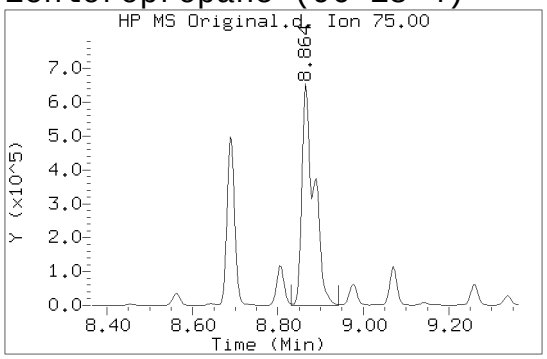
HEIGHT
654512
27-Dec-2022
16:04
linh
pham



BEFORE

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16:04
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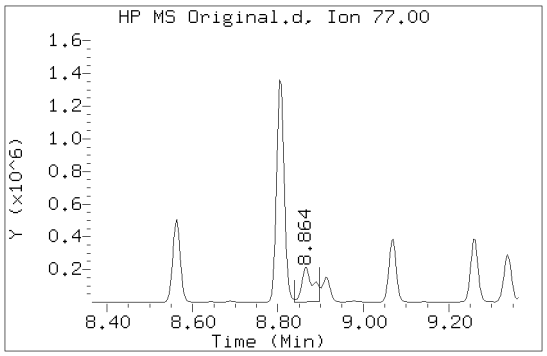

Reason Code:

AFTER

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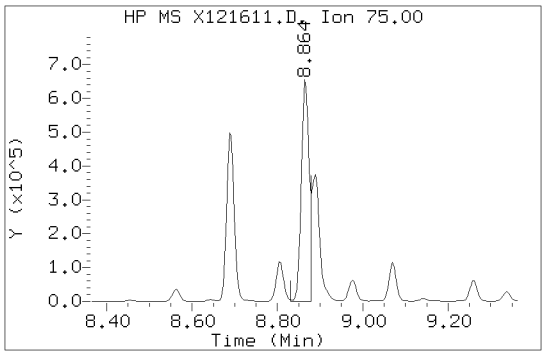

AFTER

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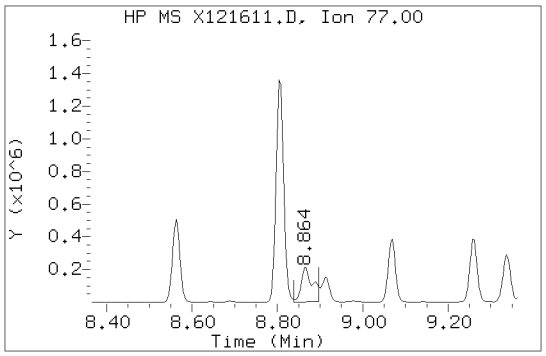

Methyl Acrylate (96-33-3)

BEFORE

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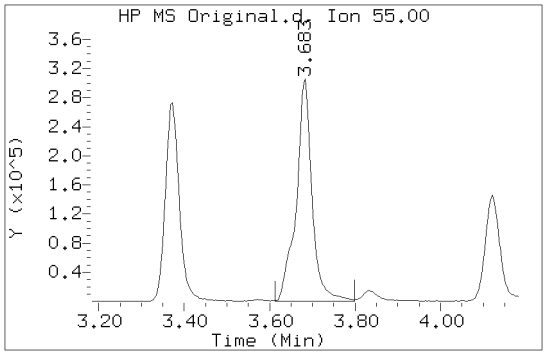

BEFORE

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27-Dec-2022
16:04
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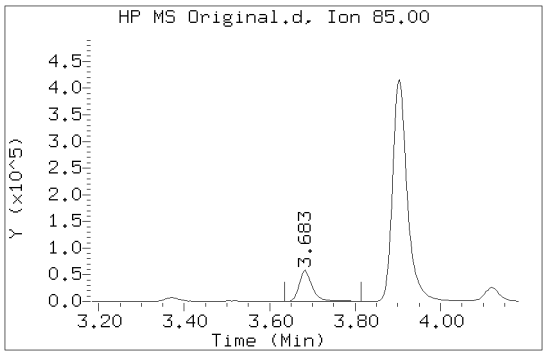

Reason Code:

AFTER

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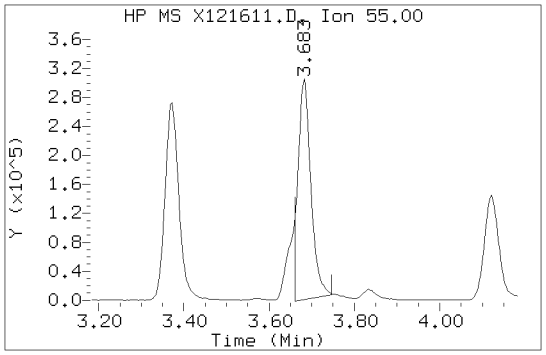

AFTER

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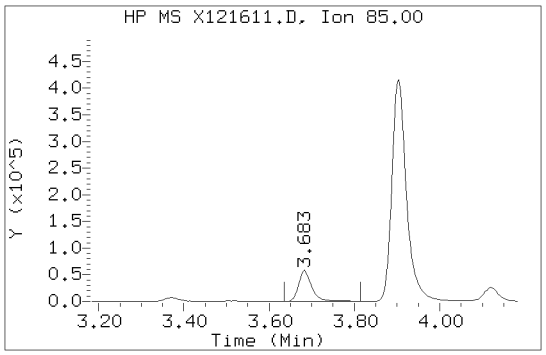

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Inj Date : 16-DEC-2022 15:07
InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
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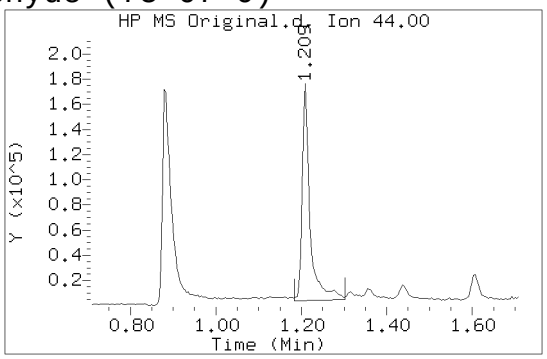
27-Dec-2022
16:04
linh
pham



AFTER

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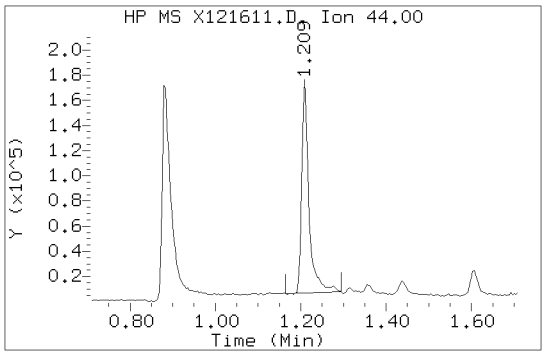

BEFORE

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27-Dec-2022
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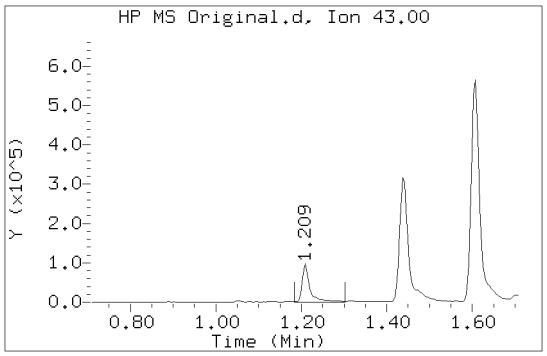

AFTER

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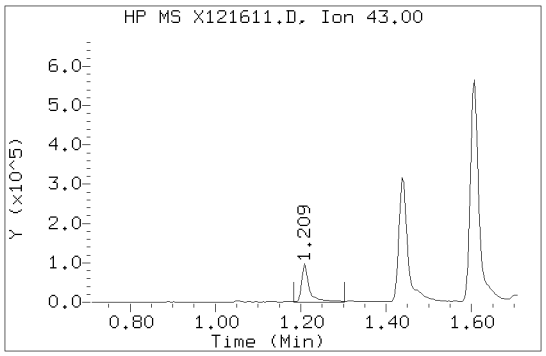

BEFORE

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27-Dec-2022
16:04
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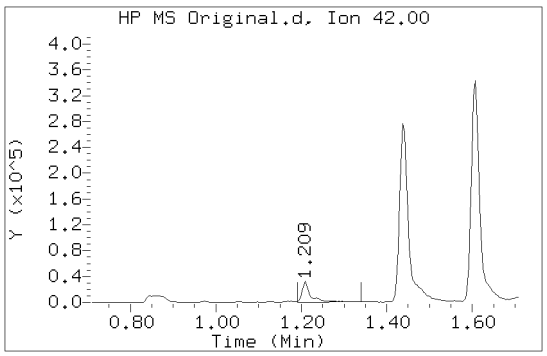

AFTER

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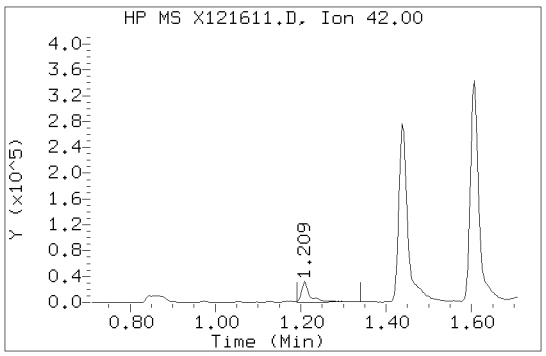


Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 1
Report Date: 13-Feb-2023 13:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 16-DEC-2022 15:49
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:38 Linh.Pham Quant Type: ISTD
Cal Date : 16-DEC-2022 15:07 Cal File: X121611.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	457291	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	42711	1021.77	1021.76
140 1,3-Butadiene	54	1.164	1.160	(0.279)	155959	49.6927	49.69
25 Methacrylonitrile	41	3.818	3.818	(0.914)	151341	46.7389	46.73
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	505171	982.151	982.15
13 Acetonitrile	39	2.194	2.195	(0.525)	197937	475.590	475.59
14 Allyl Chloride	41	2.194	2.195	(0.525)	375064	47.3168	47.31
4 Propionitrile	54	3.649	3.645	(0.873)	227186	486.896	486.89
136 n-Hexane	57	2.768	2.768	(0.663)	183599	55.7620	55.76
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	71513	49.7372	49.73
194 Acetaldehyde	44	1.209	1.209	(0.289)	52697	179.814	179.81(M)
23 Chloroprene	53	1.767	1.767	(0.423)	74243	47.7493	47.74(M)
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	428317	51.3094	51.30
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	437905	48.5791	48.57
139 Diethyl ether	59	1.752	1.752	(0.419)	142672	46.6930	46.69
130 Ethyl Acetate	43	3.653	3.653	(0.874)	171211	47.9808	47.98
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	148777	47.7146	47.71
49 Ethyl Methacrylate	69	6.712	6.708	(1.352)	142471	44.0730	44.07
132 n-Butanol	56	5.257	5.253	(1.258)	56842	974.397	974.39
142 Tetrahydrofuran	42	3.840	3.844	(0.919)	61534	108.502	108.50

166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	846843	46.6777	46.67
131 Methyl Acrylate	55	3.683	3.683 (0.882)	162555	52.3594	52.35

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 2
Report Date: 13-Feb-2023 13:08

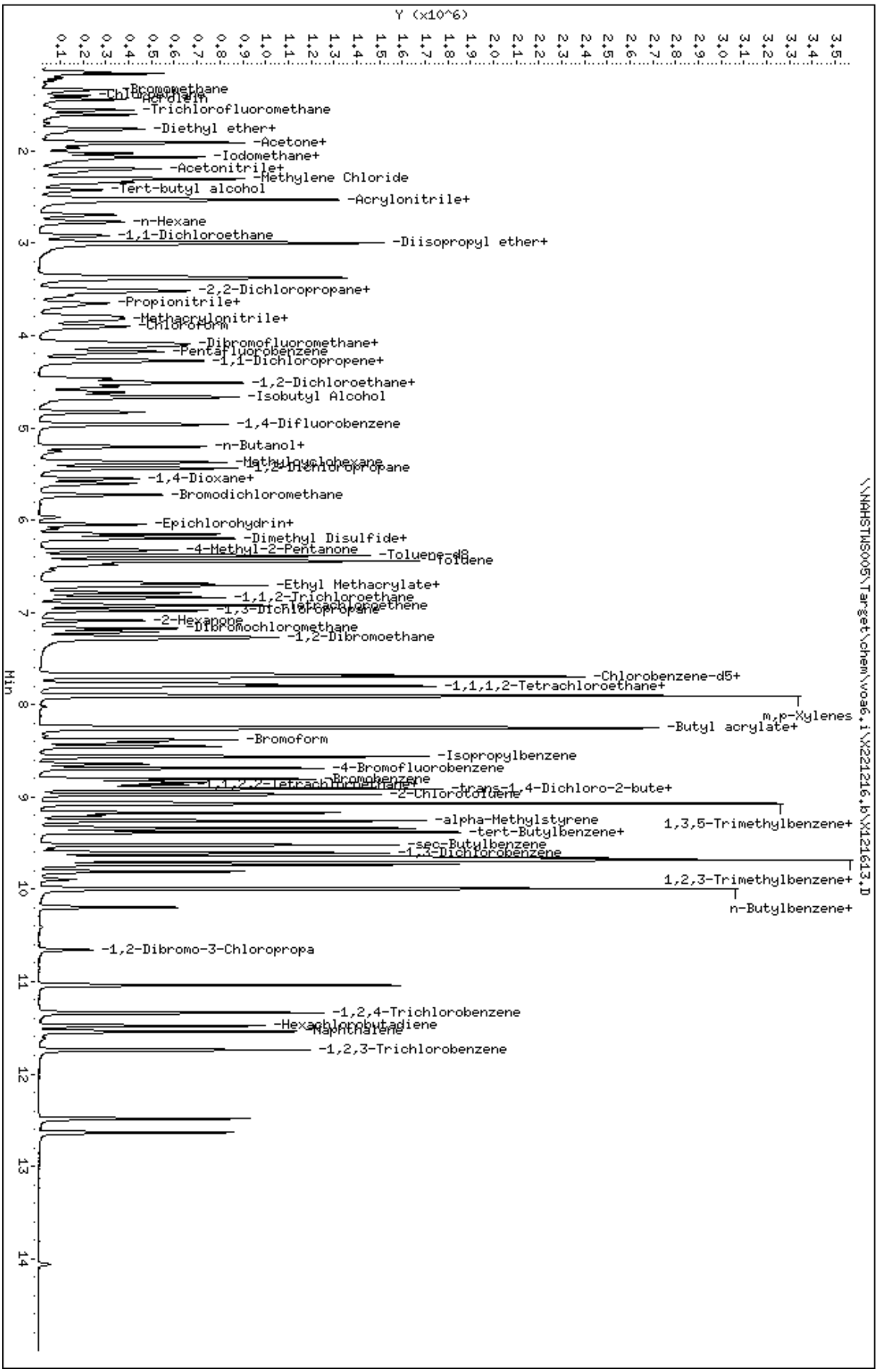
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	162	Butyl acrylate	55	8.249	8.249	(1.076)	417137	47.9449	47.94
	2	Dichlorodifluoromethane	85	0.972	0.969	(0.233)	166984	52.1924	52.19
	3	Chloromethane	50	1.077	1.077	(0.258)	207623	50.1741	50.17
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	202038	50.5766	50.57
	6	Bromomethane	94	1.336	1.336	(0.320)	153541	50.7886	50.78
	7	Chloroethane	64	1.400	1.400	(0.335)	134354	48.3213	48.32
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	285144	51.0083	51.00
	9	Acrolein	56	1.441	1.441	(0.345)	29687	95.0682	95.06
	10	Acetone	43	1.970	1.970	(0.472)	130747	101.899	101.89
	11	1,1-Dichloroethene	96	1.913	1.910	(0.458)	171246	49.3414	49.34
	15	Iodomethane	142	2.026	2.026	(0.485)	440111	96.4856	96.48
	16	Acrylonitrile	53	2.532	2.528	(0.606)	119393	101.430	101.42
	17	Methylene Chloride	84	2.299	2.299	(0.550)	226449	47.5675	47.56
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	546711	48.1256	48.12
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	894433	98.5011	98.50
	20	trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	194181	49.9917	49.99
	21	Vinyl Acetate	43	2.997	2.993	(0.717)	1044658	104.756	104.75
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	328530	48.1931	48.19
	24	2-Butanone	43	3.574	3.574	(0.856)	132931	97.7407	97.74(H)
	26	2,2-Dichloropropane	77	3.507	3.503	(0.839)	295126	50.9895	50.98
	27	cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	228100	48.2538	48.25
	28	Chloroform	83	3.904	3.900	(0.935)	370227	48.4556	48.45
	29	Bromochloromethane	128	3.795	3.791	(0.908)	122310	47.2570	47.25
$	30	Dibromofluoromethane	113	4.095	4.099	(0.980)	223563	50.9182	50.91
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	304118	50.1673	50.16
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	254008	52.1195	52.11
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	278558	49.5262	49.52
	34	Carbon Tetrachloride	117	4.264	4.260	(0.859)	255322	49.0600	49.06
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	233432	50.3661	50.36
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	686467	50.0000	
	37	Benzene	78	4.511	4.507	(0.909)	824422	50.2921	50.29
	38	Trichloroethene	130	5.205	5.205	(1.048)	238429	51.2807	51.28
	39	Bromodichloromethane	83	5.726	5.726	(1.153)	302844	49.2265	49.22
	41	2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	182363	104.194	104.19
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	216322	49.6089	49.60
	44	Dibromomethane	93	5.550	5.550	(1.118)	145797	49.1915	49.19
	45	4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	334751	94.0316	94.03
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	376514	52.1120	52.11
*	47	Chlorobenzene-d5	117	7.667	7.668	(1.000)	666040	50.0000	
$	48	Toluene-d8	98	6.385	6.386	(0.833)	814721	49.5021	49.50
	50	Toluene	91	6.445	6.446	(0.841)	905906	49.2085	49.20
	51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	314805	52.5028	52.50
	52	2-Hexanone	43	7.086	7.083	(0.924)	234303	96.7356	96.73
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	176962	47.9147	47.91
	54	1,3-Dichloropropane	76	6.981	6.982	(0.911)	347689	47.8282	47.82
	55	Dibromochloromethane	129	7.176	7.173	(0.936)	263907	49.5095	49.50
	56	Tetrachloroethene	164	6.929	6.925	(0.904)	194246	50.9965	50.99
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	232024	50.2468	50.24
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	172462	51.9860	51.98
	59	Chlorobenzene	112	7.694	7.694	(1.003)	631235	48.3416	48.34
	60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	236254	48.6176	48.61
	61	Ethylbenzene	106	7.799	7.799	(1.017)	315635	51.3153	51.31

62 m,p-Xylenes	106	7.904	7.904 (1.031)	794307	100.175	100.17
63 o-Xylene	106	8.241	8.241 (1.075)	389371	49.7531	49.75

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	64	Styrene	104	8.260	8.256	(1.077)	683415	52.0997	52.09
	66	Bromoform	173	8.410	8.410	(1.097)	182169	49.3304	49.33
	67	Isopropylbenzene	105	8.560	8.560	(1.116)	931467	52.0964	52.09
	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	280729	46.7506	46.75
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	307493	49.9836	49.98
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	376748	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	201551	48.0786	48.07(M)
	73	n-Propylbenzene	91	8.912	8.912	(0.922)	1099273	52.6761	52.67
	74	Bromobenzene	156	8.803	8.803	(0.911)	306751	49.6271	49.62
	75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	806374	52.3068	52.30
	76	2-Chlorotoluene	91	8.972	8.972	(0.929)	683941	49.9441	49.94
	77	4-Chlorotoluene	91	9.069	9.070	(0.939)	800114	51.2527	51.25
	78	tert-Butylbenzene	119	9.336	9.336	(0.966)	666730	52.8346	52.83
	79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	832541	51.3249	51.32
	81	sec-Butylbenzene	105	9.519	9.519	(0.985)	909529	54.1700	54.16
	82	p-Isopropyltoluene	119	9.651	9.647	(0.999)	823827	54.7550	54.75
	83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	525438	51.2160	51.21
	84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	556610	49.7188	49.71
	87	n-Butylbenzene	91	9.995	9.992	(1.035)	735043	50.6672	50.66
	88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	523296	49.5268	49.52
	89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48516	50.5353	50.53
	90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	364475	54.6601	54.66
	91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	170927	57.7383	57.73
	92	Naphthalene	128	11.544	11.540	(1.195)	799121	52.6729	52.67
	93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	337140	52.7917	52.79
M	94	1,2-Dichloroethylene (total)	96				422281	98.2454	98.24
M	95	Xylenes (total)	106				1183678	149.928	149.92
	141	Cyclohexane	56	4.121	4.121	(0.987)	238664	51.7326	51.73
	138	Freon TF	101	1.913	1.913	(0.458)	177599	52.9072	52.90
	147	Methylcyclohexane	55	5.377	5.377	(1.083)	427649	50.8929	50.89
	146	Methyl Acetate	43	2.228	2.228	(0.533)	99131	48.1755	48.17
	148	Tert-Butyl alcohol	59	2.423	2.427	(0.580)	311463	983.641	983.64
	149	Isopropyl Alcohol	45	2.090	2.090	(0.500)	170003	1028.04	1028.03

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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\\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D
Date : 16-DEC-2022 15:49
Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6.i
Operator: PC
Column diameter: 0.18
Page 1
-Bromomethane
-Chloroethane
-Acrolein
-Trichlorofluoromethane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Diisopropyl ether+
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol
-1,4-Difluorobenzene
-n-Butanol+
-Methylcyclohexane
-1,2-Dichloropropane
-1,4-Dioxane+
-Bromodichloromethane
-Epichlorohydrin+
-Dimethyl Disulfide+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-Tetrachloroethene
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-Butyl acrylate+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-alpha-Methylstyrene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,2,3-Trimethylbenzene+
n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

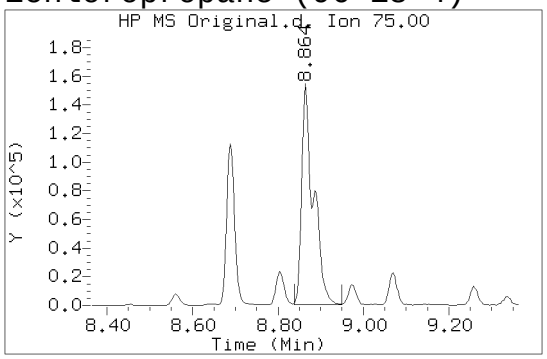
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D
Inj Date : 16-DEC-2022 15:49
InstruID : voa6.i
LabSampID : ICV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
75
AREA
301229
HEIGHT
154590
27-Dec-2022
16:04
linh
pham



AFTER

MASS
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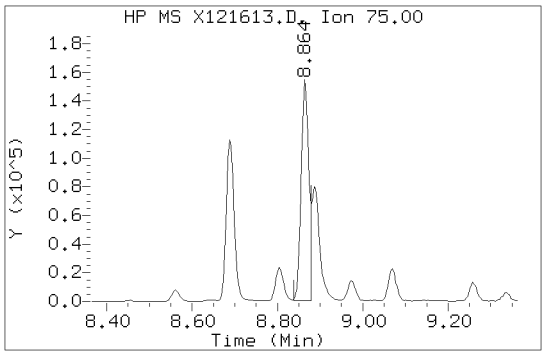
AREA
201551
HEIGHT
154590
13-Feb-2023
13:08
linh
pham



BEFORE

MASS
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AREA
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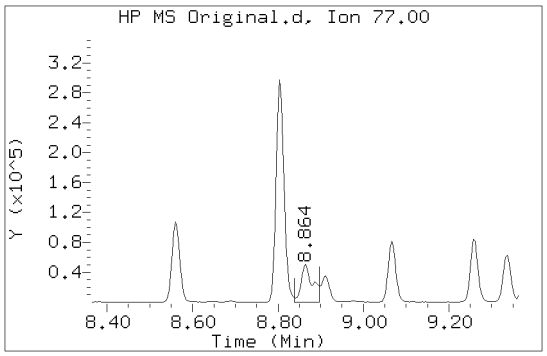
HEIGHT
50627
27-Dec-2022
16:04
linh
pham



AFTER

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HEIGHT
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13-Feb-2023
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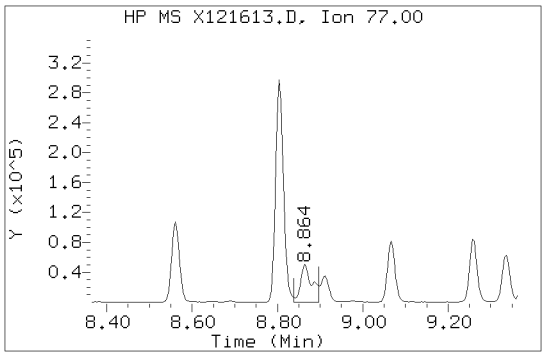

Chloroprene (126-99-8)

Reason Code:

BEFORE

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AREA
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HEIGHT
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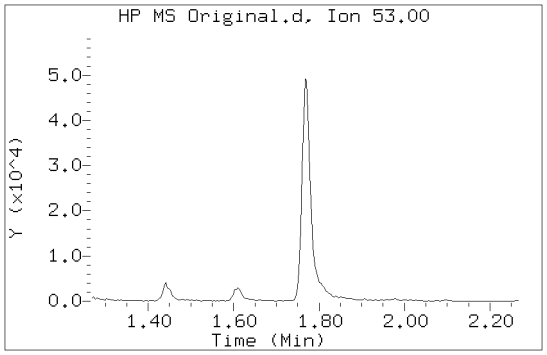
27-Dec-2022
16:04
linh
pham



AFTER

MASS
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AREA
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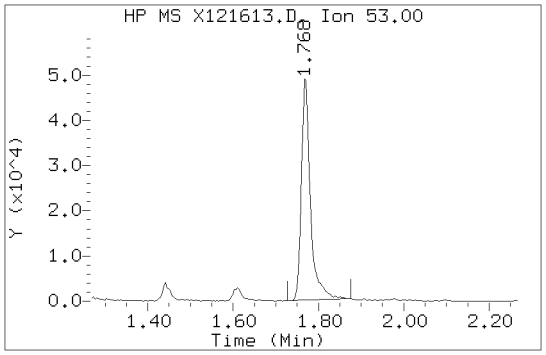
HEIGHT
48931
13-Feb-2023
13:08
linh
pham



BEFORE

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AREA
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HEIGHT
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27-Dec-2022
16:04
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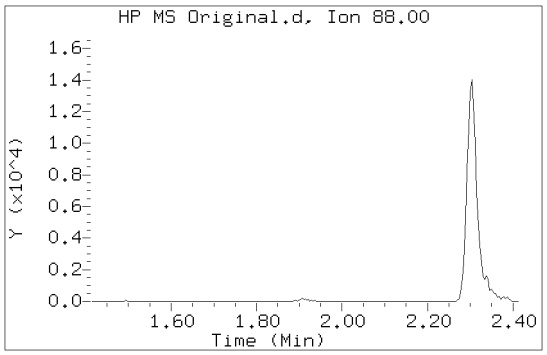

AFTER

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HEIGHT
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13-Feb-2023
13:08
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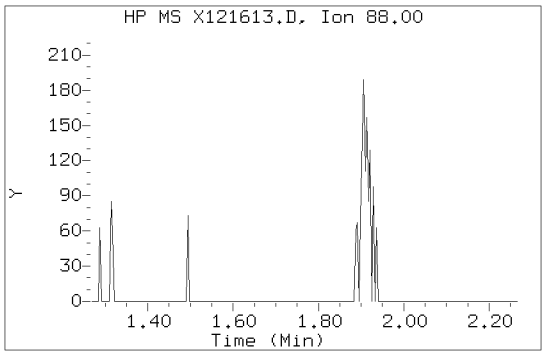

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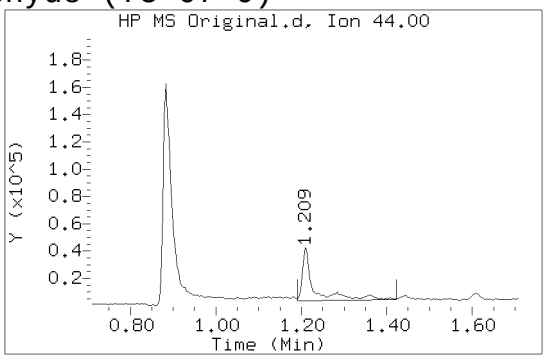
Inj Date : 16-DEC-2022 15:49
InstruID : voa6.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
44
AREA
75387
HEIGHT
39303
27-Dec-2022
16:04
linh
pham



AFTER

MASS
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13-Feb-2023
13:08
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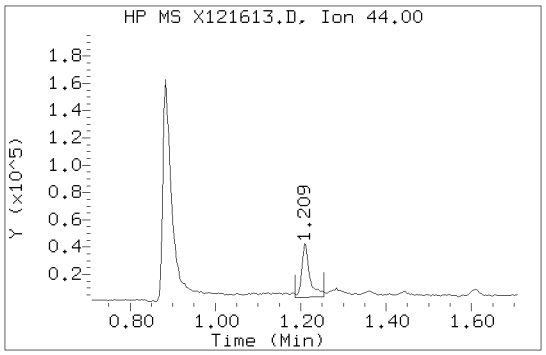
pham



BEFORE

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AREA
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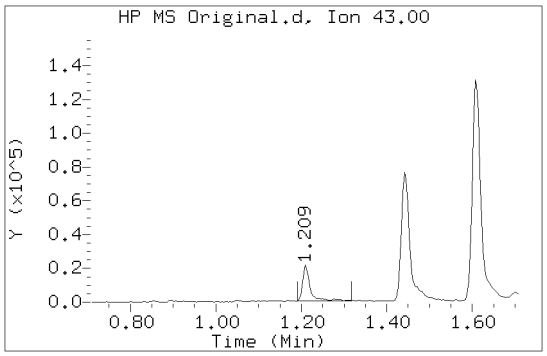
HEIGHT
21502
27-Dec-2022
16:04
linh
pham



AFTER

MASS
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AREA
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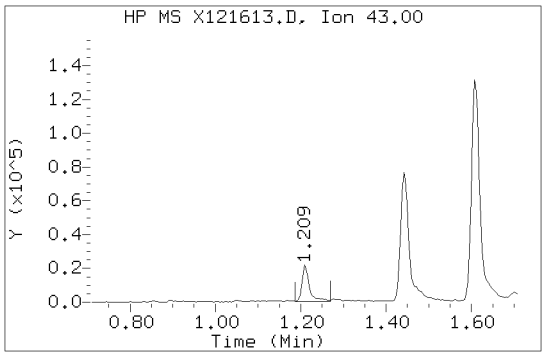
HEIGHT
21664
13-Feb-2023
13:08
linh
pham



BEFORE

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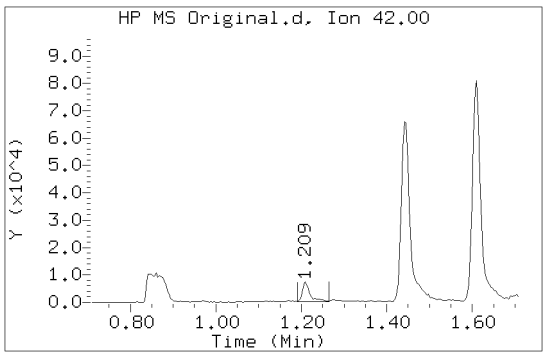
42
AREA
8969
HEIGHT
7131
27-Dec-2022
16:04
linh
pham



AFTER

MASS
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AREA
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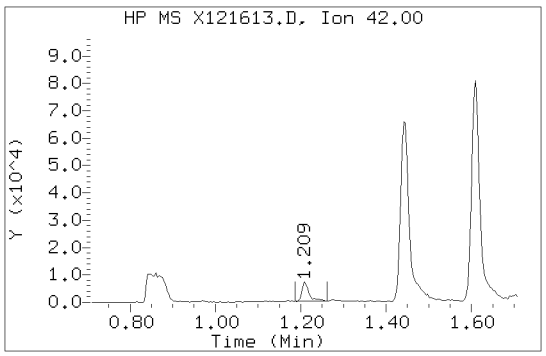
HEIGHT
7027
13-Feb-2023
13:08
linh
pham



right solutions.
right partner.

Raw Data VOA6 426481

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\X230125.b\X012501.D Page 1
Report Date: 25-Jan-2023 08:05

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa6.i\X230125.b\X012501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 25-JAN-2023 07:18
Operator : FT Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230125.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham 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)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	177600			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	33896			15.00- 40.00	19.09
8.687	8.889	(0.000)	75	90328			30.00- 60.00	50.86
8.687	8.889	(0.000)	96	12967			5.00- 9.00	7.30
8.687	8.889	(0.000)	173	1382			0.00- 2.00	0.92
8.687	8.889	(0.000)	174	149824			50.00- 0.00	84.36
8.687	8.889	(0.000)	175	10828			5.00- 9.00	7.23
8.687	8.889	(0.000)	176	146240			95.00- 101.00	97.61
8.687	8.889	(0.000)	177	9470			5.00- 9.00	6.48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.09
75	30.00 - 60.00% of mass 95	50.86
96	5.00 - 9.00% of mass 95	7.30
173	Less than 2.00% of mass 174	0.78 (0.92)
174	Greater than 50.00% of mass 95	84.36
175	5.00 - 9.00% of mass 174	6.10 (7.23)
176	95.00 - 101.00% of mass 174	82.34 (97.61)
177	5.00 - 9.00% of mass 176	5.33 (6.48)

Data File: X012501.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 119

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2253	66.00	174	99.10	245	141.90	248
37.00	9333	67.00	577	103.00	121	142.90	2055
38.00	8745	68.00	17944	103.90	773	144.00	77
39.00	4614	69.00	19064	105.00	707	144.70	115
40.00	1694	70.00	2308	105.90	1053	146.00	246
41.10	1835	70.90	286	106.90	427	147.00	182
42.00	2387	72.00	811	108.80	285	147.80	464
42.90	1385	73.00	8213	109.80	75	148.60	136
44.00	2114	74.00	30976	110.70	192	149.70	208
45.00	1992	75.00	90328	111.80	142	151.80	71
46.00	178	76.00	7743	112.80	107	152.90	79
47.00	1843	77.10	1385	115.00	315	153.80	136
47.90	1119	77.90	856	115.80	659	154.80	627
49.00	7069	78.90	5965	117.00	996	155.80	54
50.00	33896	80.00	1711	117.90	576	156.80	419
51.00	10700	80.90	5857	118.90	973	158.70	178
52.00	661	81.90	1216	120.10	99	160.70	417
52.90	240	83.00	488	123.90	103	170.00	91
54.10	239	84.90	161	125.00	124	170.80	82
55.00	3786	85.80	187	125.90	115	171.10	82
56.00	3409	86.90	7194	126.90	142	171.80	90
57.00	5992	88.00	6349	127.90	760	173.00	1382
58.00	578	91.00	928	128.70	328	173.90	149824
58.90	124	91.90	4866	129.80	643	174.90	10828
60.00	1756	93.00	7041	130.80	146	175.90	146240
61.00	8161	94.00	19792	134.70	192	176.90	9470
62.00	8719	95.00	177600	136.70	297	177.90	291
63.10	6615	96.00	12967	138.90	68	233.70	60
63.90	815	97.00	516	139.80	126	235.70	81
64.80	119	97.90	1674	140.90	1426		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012501.D

Date : 25-JAN-2023 07:18

Client ID: BFB

Instrument: voa6.i

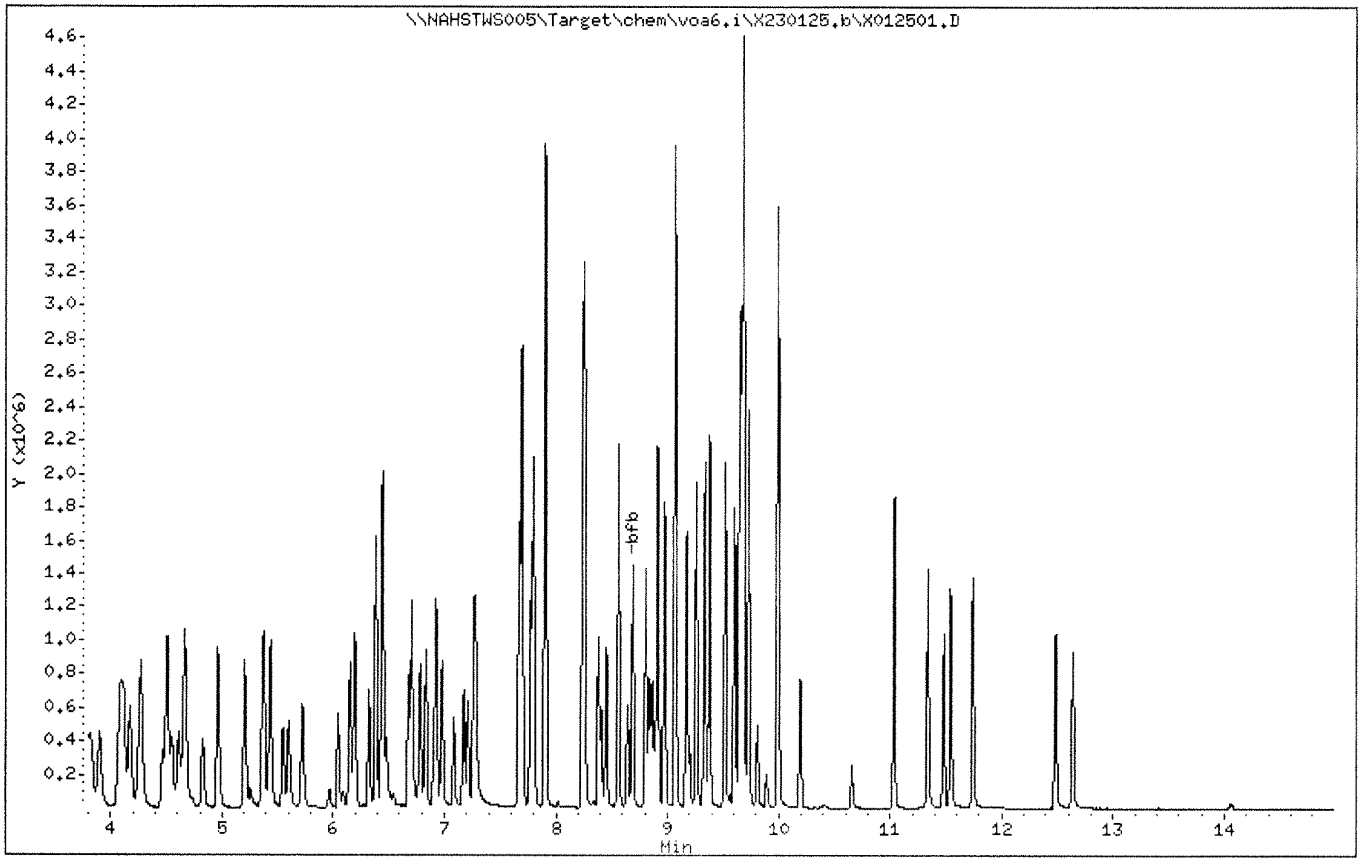
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012501.D Page 2

Date : 25-JAN-2023 07:18

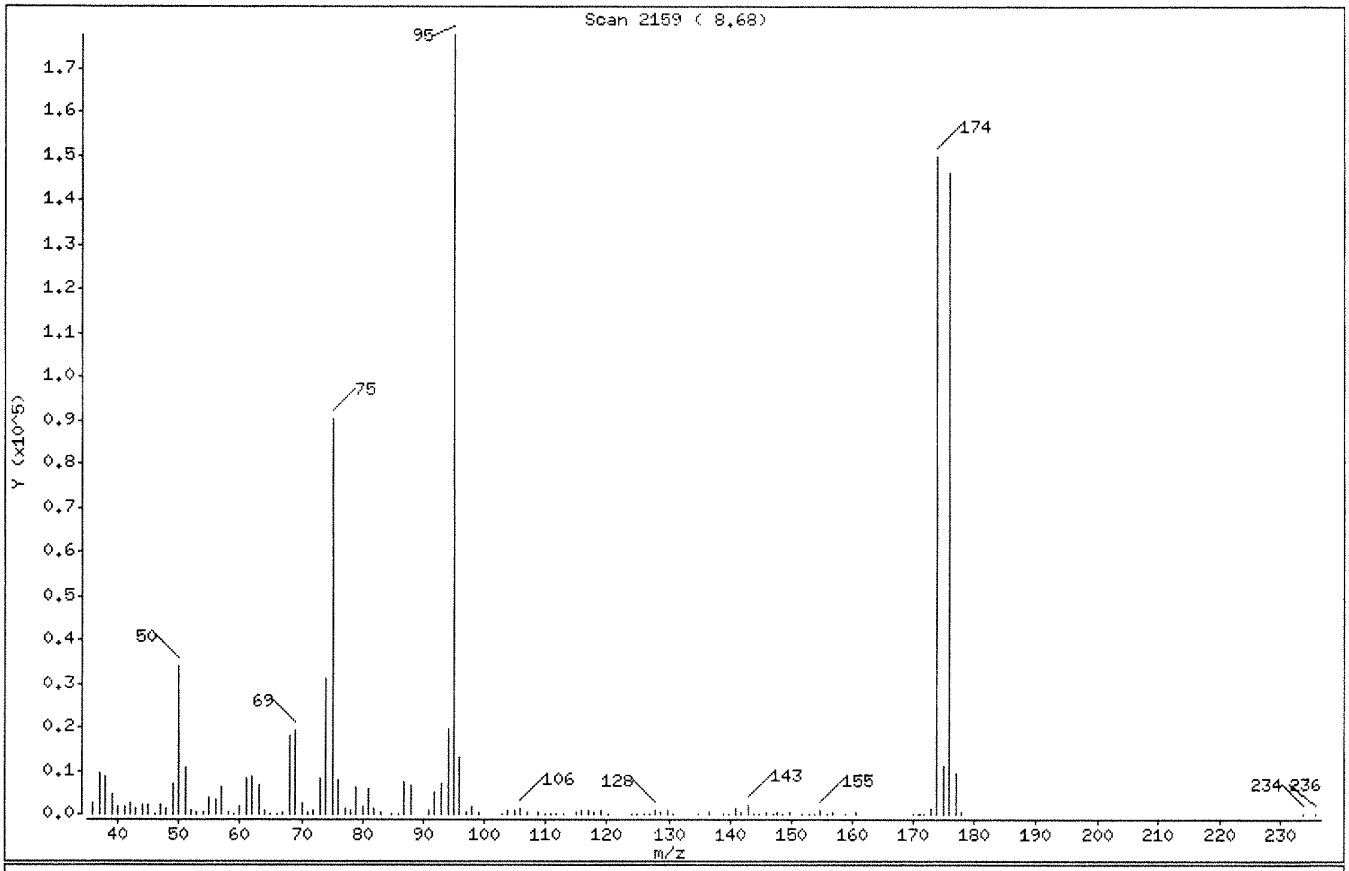
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.09
75	30.00 - 60.00% of mass 95	50.86
96	5.00 - 9.00% of mass 95	7.30
173	Less than 2.00% of mass 174	0.78 (0.92)
174	Greater than 50.00% of mass 95	84.36
175	5.00 - 9.00% of mass 174	6.10 (7.23)
176	95.00 - 101.00% of mass 174	82.34 (97.61)
177	5.00 - 9.00% of mass 176	5.33 (6.48)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012501.D

Date : 25-JAN-2023 07:18

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: X012501.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 119

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2253	66.00	174	99.10	245	141.90	248
37.00	9333	67.00	577	103.00	121	142.90	2055
38.00	8745	68.00	17944	103.90	773	144.00	77
39.00	4614	69.00	19064	105.00	707	144.70	115
40.00	1694	70.00	2308	105.90	1053	146.00	246
41.10	1835	70.90	286	106.90	427	147.00	182
42.00	2387	72.00	811	108.80	285	147.80	464
42.90	1385	73.00	8213	109.80	75	148.60	136
44.00	2114	74.00	30976	110.70	192	149.70	208
45.00	1992	75.00	90328	111.80	142	151.80	71
46.00	178	76.00	7743	112.80	107	152.90	79
47.00	1843	77.10	1385	115.00	315	153.80	136
47.90	1119	77.90	856	115.80	659	154.80	627
49.00	7069	78.90	5965	117.00	996	155.80	54
50.00	33896	80.00	1711	117.90	576	156.80	419
51.00	10700	80.90	5857	118.90	973	158.70	178
52.00	661	81.90	1216	120.10	99	160.70	417
52.90	240	83.00	488	123.90	103	170.00	91
54.10	239	84.90	161	125.00	124	170.80	82
55.00	3786	85.80	187	125.90	115	171.10	82
56.00	3409	86.90	7194	126.90	142	171.80	90
57.00	5992	88.00	6349	127.90	760	173.00	1382
58.00	578	91.00	928	128.70	328	173.90	149824
58.90	124	91.90	4866	129.80	643	174.90	10828
60.00	1756	93.00	7041	130.80	146	175.90	146240
61.00	8161	94.00	19792	134.70	192	176.90	9470
62.00	8719	95.00	177600	136.70	297	177.90	291
63.10	6615	96.00	12967	138.90	68	233.70	60
63.90	815	97.00	516	139.80	126	235.70	81
64.80	119	97.90	1674	140.90	1426		

Data File : \\nahstws005\Target\chem\voa6.i\X230125.b\X012501.D
Inj Date : 25-JAN-2023 07:18
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012502.D Page 1
Report Date: 03-Feb-2023 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012502.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 25-JAN-2023 07:39
Operator : FT Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\8260W.m
Meth Date : 03-Feb-2023 10:54 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	518521	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	155523	50.0000	42.94
3 Chloromethane	50	1.074	1.074	(0.257)	204825	50.0000	43.94
4 Propionitrile	54	3.645	3.645	(0.873)	262037	500.000	495.27
5 Vinyl Chloride	62	1.141	1.141	(0.273)	212431	50.0000	46.89
6 Bromomethane	94	1.336	1.336	(0.320)	144856	50.0000	42.55
7 Chloroethane	64	1.400	1.400	(0.335)	138239	50.0000	43.84
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	345506	50.0000	54.50
9 Acrolein	56	1.441	1.441	(0.345)	34347	100.000	96.94
10 Acetone	43	1.966	1.966	(0.471)	136741	100.000	93.98
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	192302	50.0000	48.86
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	627349	1000.00	1075.66
13 Acetonitrile	39	2.195	2.195	(0.525)	262169	500.000	555.53
14 Allyl Chloride	41	2.195	2.195	(0.525)	452650	50.0000	50.36
15 Iodomethane	142	2.022	2.022	(0.484)	504847	100.000	97.52
16 Acrylonitrile	53	2.528	2.528	(0.605)	141286	100.000	105.85
17 Methylene Chloride	84	2.299	2.299	(0.550)	239078	50.0000	44.29
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	625481	50.0000	48.55
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1039906	100.000	100.99
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	220813	50.0000	50.13

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1213272	100.000	107.29
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	376145	50.0000	48.66

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012502.D Page 2
Report Date: 03-Feb-2023 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	83955	50.0000	47.61(M)
24	2-Butanone	43	3.570	3.570	(0.855)	157641	100.000	102.08
25	Methacrylonitrile	41	3.814	3.814	(0.913)	182615	50.0000	49.73(a)
26	2,2-Dichloropropane	77	3.503	3.503	(0.839)	361772	50.0000	55.12
27	cis-1,2-Dichloroethene	96	3.518	3.518	(0.842)	254143	50.0000	47.41
28	Chloroform	83	3.900	3.900	(0.934)	431364	50.0000	49.79
29	Bromochloromethane	128	3.791	3.791	(0.908)	131464	50.0000	44.79
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.980)	243385	50.0000	48.88
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	378394	50.0000	55.04
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	317381	50.0000	58.77(M)
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	337549	50.0000	54.16
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	322670	50.0000	55.95
$ 35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	277015	50.0000	52.69
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	760669	50.0000	
37	Benzene	78	4.507	4.507	(0.909)	933643	50.0000	51.39
38	Trichloroethene	130	5.205	5.205	(1.049)	276303	50.0000	53.62
39	Bromodichloromethane	83	5.722	5.722	(1.153)	339233	50.0000	49.76
40	Methyl Methacrylate	41	5.602	5.602	(1.341)	189231	50.0000	53.52
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	215903	100.000	111.32
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	237004	50.0000	49.04
43	2-Nitropropane	43	5.966	5.966	(1.428)	70071	50.0000	53.51
44	Dibromomethane	93	5.550	5.550	(1.119)	159966	50.0000	48.70
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	408675	100.000	104.20
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	414815	50.0000	51.81
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	733760	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	899442	50.0000	49.60
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	185118	50.0000	51.67
50	Toluene	91	6.445	6.445	(0.841)	1040804	50.0000	51.31
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	359516	50.0000	54.11
52	2-Hexanone	43	7.086	7.086	(0.924)	283240	100.000	106.14
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	195678	50.0000	48.09
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	396641	50.0000	49.52
55	Dibromochloromethane	129	7.173	7.173	(0.935)	289849	50.0000	49.35
56	Tetrachloroethene	164	6.925	6.925	(0.903)	239078	50.0000	56.97
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	257178	50.0000	50.55
58	1-Chlorohexane	55	7.694	7.694	(1.551)	216487	50.0000	58.89(M)
59	Chlorobenzene	112	7.690	7.690	(1.003)	716434	50.0000	49.80
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	271898	50.0000	50.78
61	Ethylbenzene	106	7.799	7.799	(1.017)	374972	50.0000	55.33
62	m,p-Xylenes	106	7.904	7.904	(1.031)	944872	100.000	108.16
63	o-Xylene	106	8.241	8.241	(1.075)	450159	50.0000	52.21
64	Styrene	104	8.256	8.256	(1.077)	780573	50.0000	54.01
66	Bromoform	173	8.410	8.410	(1.097)	201206	50.0000	49.45
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1175500	50.0000	59.67
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	319045	50.0000	47.31
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	355286	50.0000	52.41
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	423046	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	241260	50.0000	51.25(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	86551	50.0000	54.64
73	n-Propylbenzene	91	8.912	8.912	(0.922)	1402243	50.0000	59.84
74	Bromobenzene	156	8.803	8.803	(0.911)	346006	50.0000	49.85
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1018794	50.0000	58.85

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	845832	50.0000	55.00
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	985999	50.0000	56.24

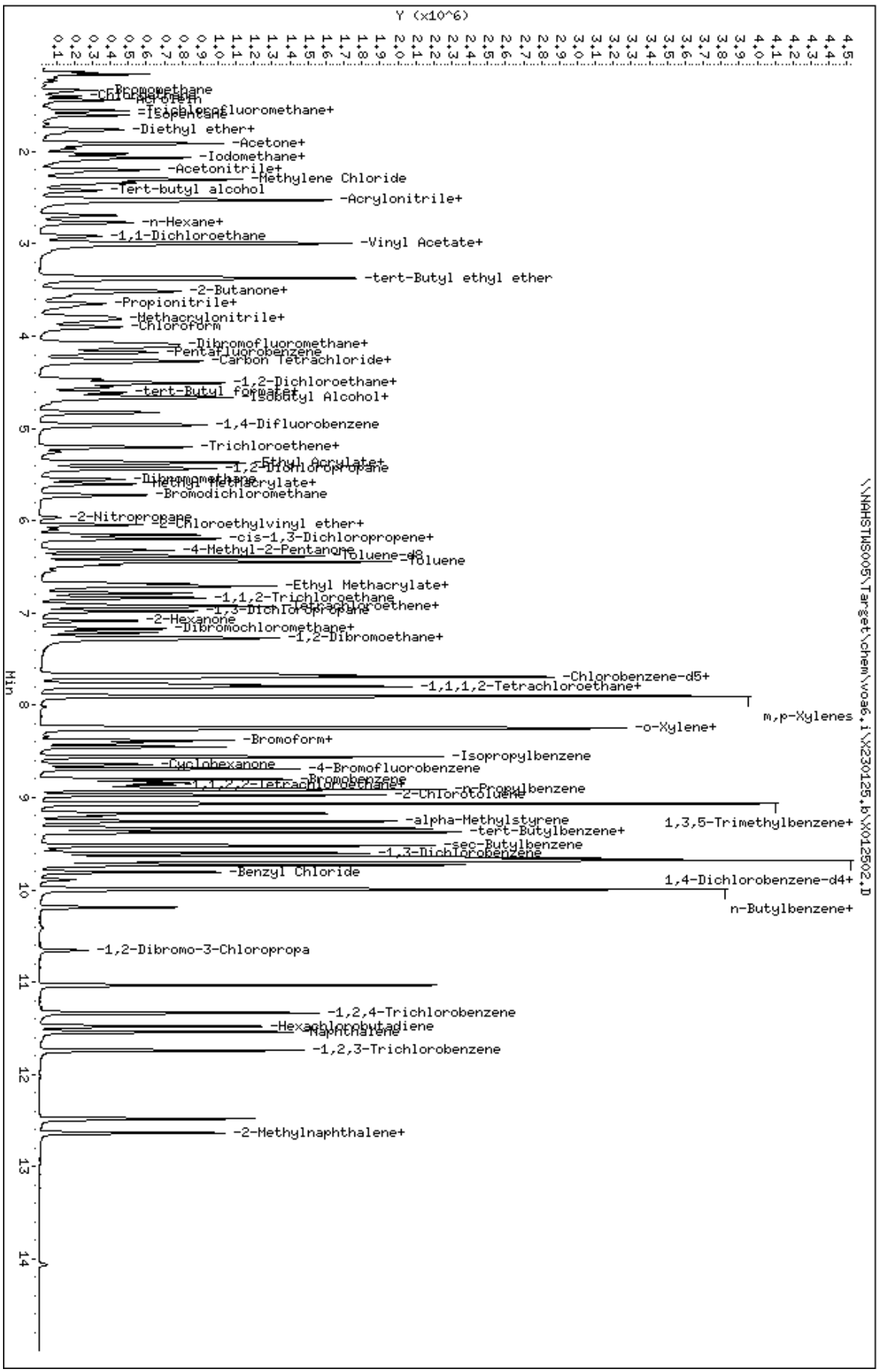
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	857670	50.0000	60.52
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1031275	50.0000	56.61
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1219683	50.0000	64.69
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1079764	50.0000	63.91
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	616324	50.0000	53.50
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	653904	50.0000	52.01
86	Benzyl Chloride	91	9.808	9.808	(1.279)	577645	50.0000	50.28
87	n-Butylbenzene	91	9.992	9.992	(1.034)	972004	50.0000	59.35
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	608551	50.0000	51.29
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	54578	50.0000	50.62
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	441529	50.0000	58.96
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	207290	50.0000	62.29
92	Naphthalene	128	11.540	11.540	(1.194)	930814	50.0000	54.63
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	394678	50.0000	55.03
146	Methyl acetate	43	2.225	2.225	(0.533)	116654	50.0000	49.99
138	Freon TF	101	1.913	1.913	(0.458)	208429	50.0000	54.75
141	Cyclohexane	56	4.118	4.118	(0.986)	313337	50.0000	59.69
142	Tetrahydrofuran	42	3.836	3.836	(0.918)	60342	100.000	93.40
147	Methylcyclohexane	55	5.373	5.373	(1.083)	553206	50.0000	59.41(M)
135	1,4-Dioxane	88	5.595	5.595	(1.339)	51276	1000.00	1081.81
132	n-Butanol	56	5.253	5.253	(1.258)	66754	1000.00	1006.06
131	Methyl Acrylate	55	3.683	3.683	(0.882)	222447	50.0000	63.18
133	Ethyl Acrylate	55	5.373	5.373	(1.286)	568929	50.0000	55.77
136	n-Hexane	57	2.768	2.768	(0.663)	247408	50.0000	66.26
139	Diethyl ether	59	1.752	1.752	(0.419)	148169	50.0000	42.76
148	Tert-butyl alcohol	59	2.419	2.419	(0.579)	377965	1000.00	1052.70
149	Isopropyl alcohol	45	2.090	2.090	(0.500)	204601	1000.00	1091.15
156	Diisopropyl ether	45	2.993	2.993	(0.716)	669544	50.0000	49.77
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	431512	50.0000	52.57
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1084628	50.0000	53.24
167	Ethanol	45	1.696	1.696	(0.406)	34024	1000.00	1007.28
172	tert-Butyl formate	59	4.612	4.612	(1.104)	296380	100.000	107.71
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	365985	1000.00	1054.19
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	722423	50.0000	48.33
175	tert-Butyl ethyl ether	59	3.368	3.368	(0.806)	703116	50.0000	49.19
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	296380	1000.00	1064.26
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	761954	1000.00	1058.32
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	431512	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	171209	50.0000	48.10
152	Amyl alcohol	42	6.903	6.903	(0.900)	74779	1000.00	1030.59
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	29038	50.0000	43.25
159	Propylene oxide	43	1.752	1.752	(0.419)	30303	100.000	92.93
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	81625	1000.00	1125.15
162	Butyl acrylate	55	8.249	8.249	(1.076)	514604	50.0000	53.68
182	Epichlorohydrin	57	6.093	6.093	(1.228)	71930	200.000	211.00
M 94	1,2-Dichloroethylene (total)	96				474956	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	485289	50.0000	51.77
130	Ethyl Acetate	43	3.649	3.649	(0.873)	202944	50.0000	50.15
134	Cyclohexanone	55	8.642	8.642	(0.894)	209208	1000.00	1185.52
185	Isoprene	39	1.767	1.767	(0.423)	72538	50.0000	52.51
186	Isopentane	42	1.606	1.606	(0.385)	136194	50.0000	(a)
188	Isopropyl acetate	43	4.672	4.672	(0.942)	627349	50.0000	53.08

187 n-Amyl acetate	43	8.451	8.451 (1.102)	434896	50.0000	50.82
189 n-Butyl acetate	43	7.210	7.210 (0.940)	351609	50.0000	55.78

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	247408	1000.00	1298.14
194 Acetaldehyde	44	1.209	1.209	(0.289)	59193	200.000	177.91
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	500691	50.0000	51.32
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	494411	50.0000	49.78
168 1-Propanol	59	2.993	2.993	(0.716)	77882	1000.00	919.07

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

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Inj Date : 25-JAN-2023 07:39
InstruID : voa6.i
LabSampID : CCV

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

Reason Code:

BEFORE

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HEIGHT
149247
03-Feb-2023
10:53
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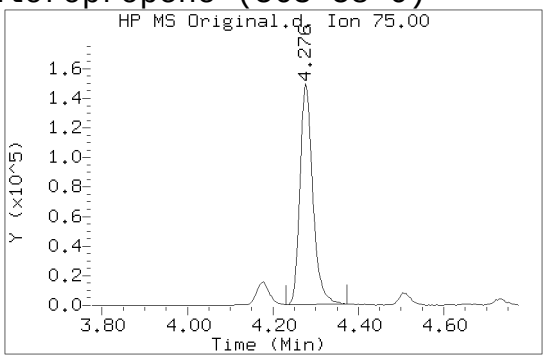
pham



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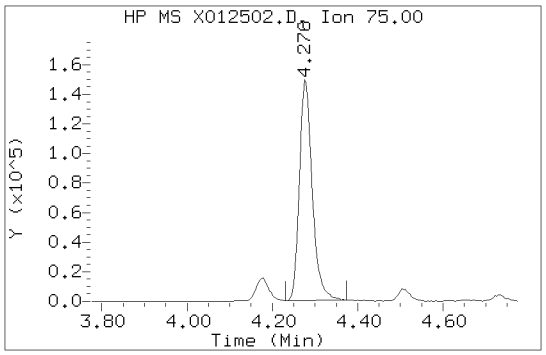

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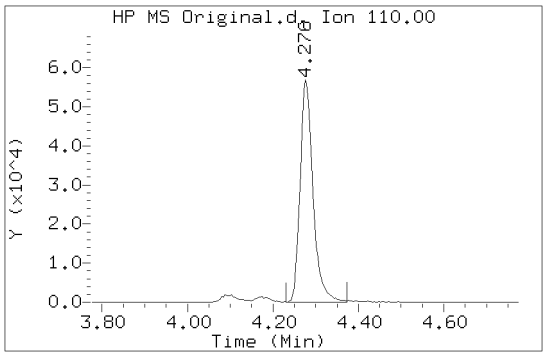

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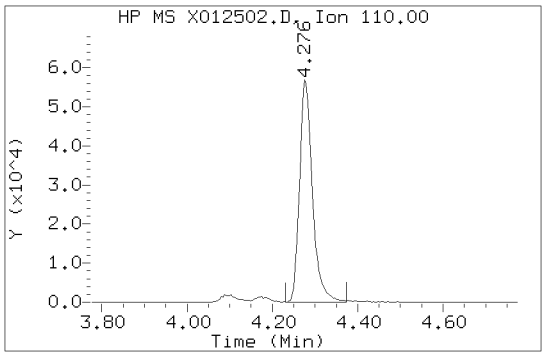

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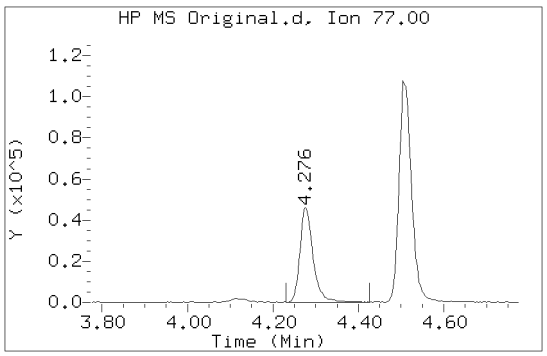

AFTER

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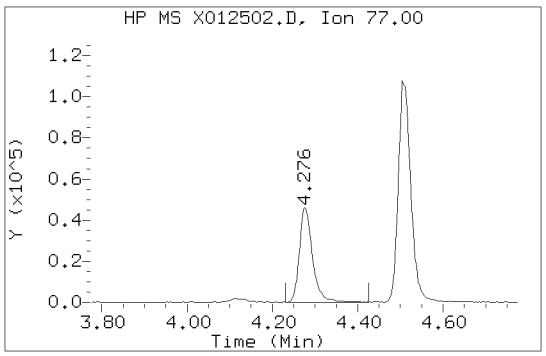

1-Chlorohexane (544-10-5)

Reason Code:

BEFORE

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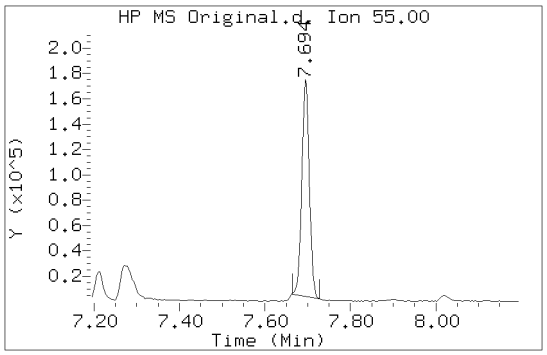

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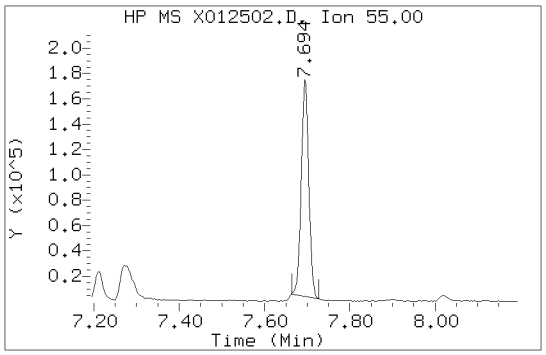

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InstruID : voa6.i
LabSampID : CCV

1-Chlorohexane (544-10-5)

Reason Code:

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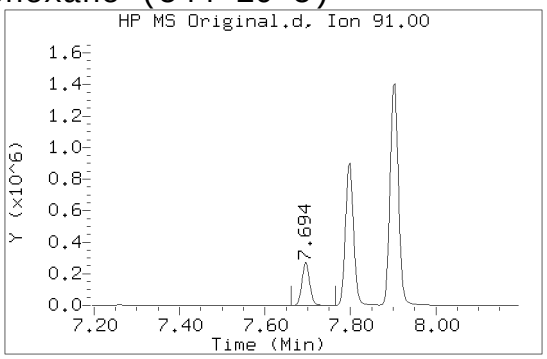
03-Feb-2023
10:53
linh
pham



AFTER

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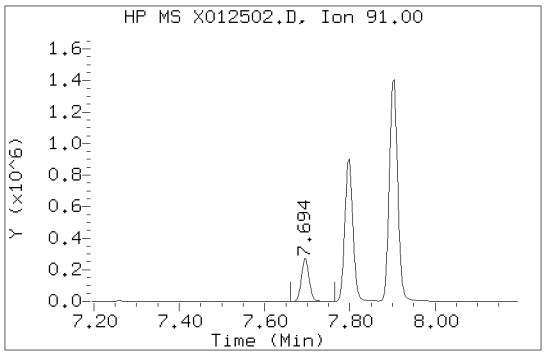

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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03-Feb-2023
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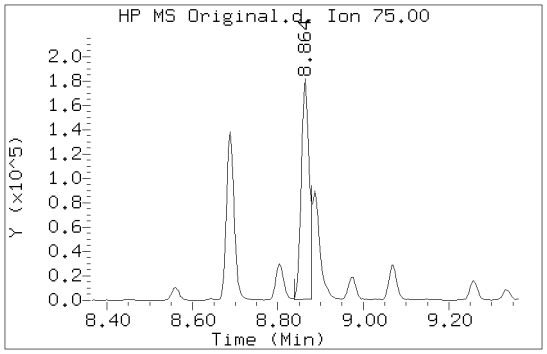

AFTER

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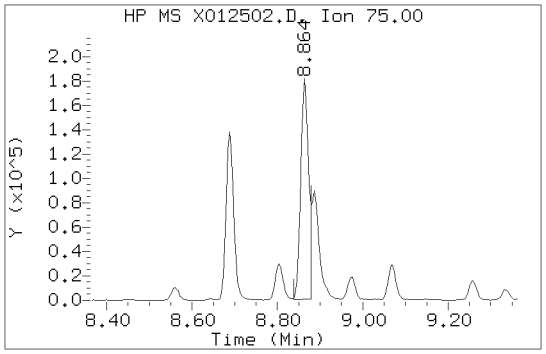

BEFORE

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61575
03-Feb-2023
10:53
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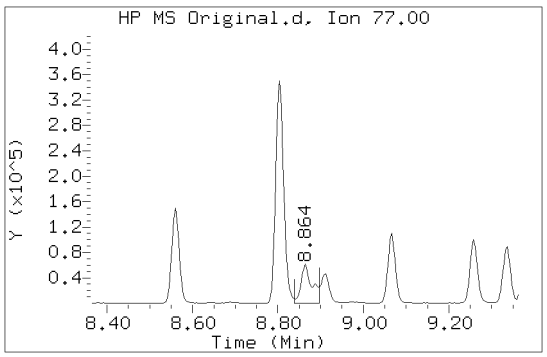

AFTER

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03-Feb-2023
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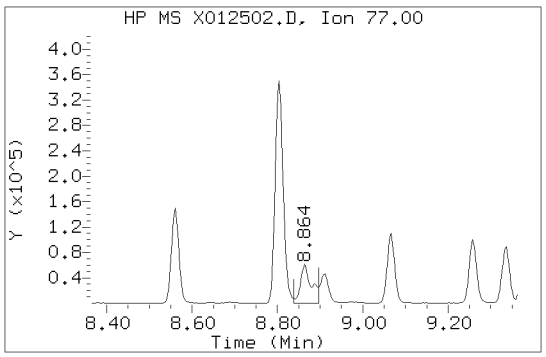

Chloroprene (126-99-8)

Reason Code:

BEFORE

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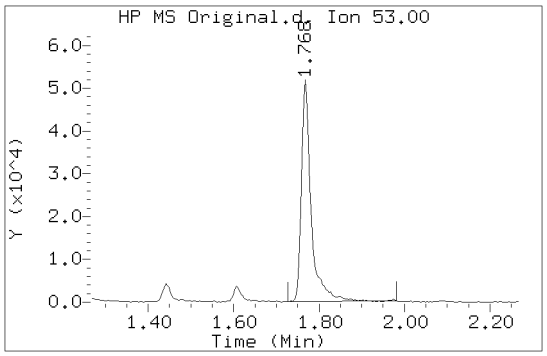

AFTER

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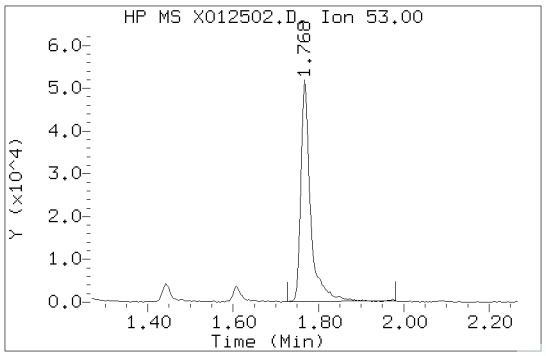

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Inj Date : 25-JAN-2023 07:39
InstruID : voa6.i
LabSampID : CCV

Chloroprene (126-99-8)

Reason Code:

BEFORE

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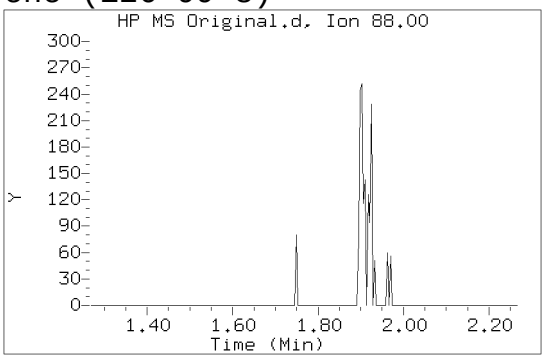

AFTER

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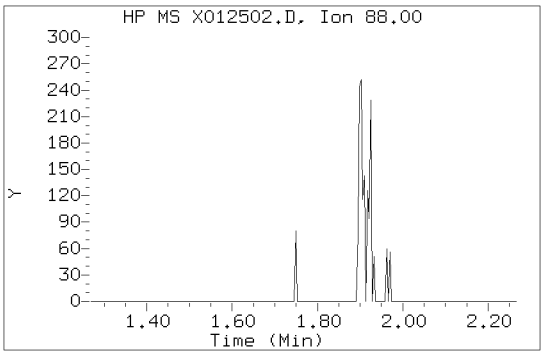

Methylcyclohexane (108-87-2)

Reason Code:

BEFORE

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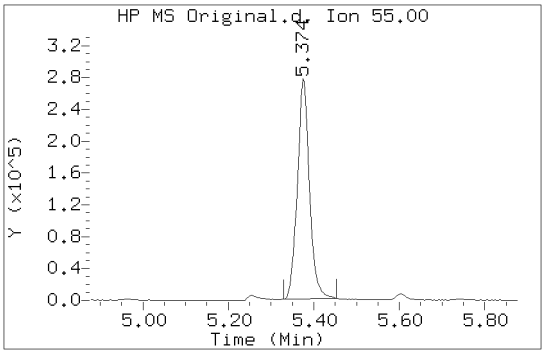

AFTER

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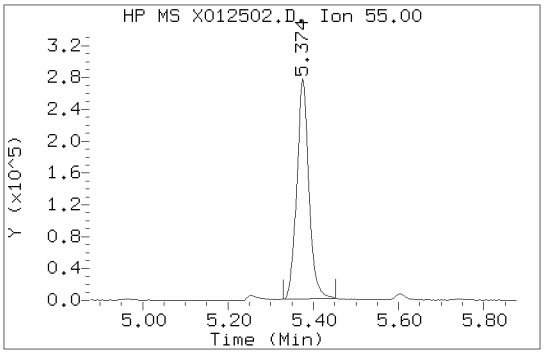

BEFORE

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03-Feb-2023
10:53
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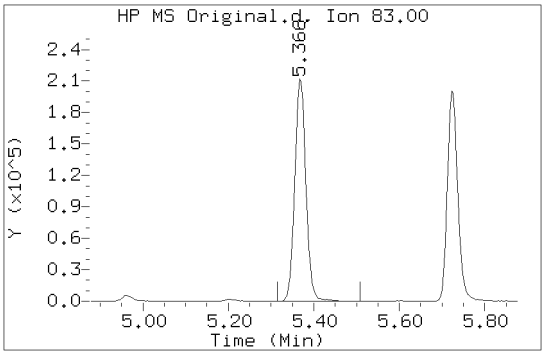

AFTER

MASS
83
AREA
390838
HEIGHT
212032
03-Feb-2023
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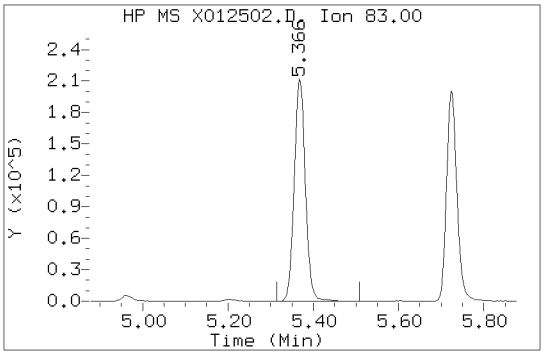


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012504.D Page 1
Report Date: 03-Feb-2023 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012504.D
Lab Smp Id: VLCSW-230125 Client Smp ID: VLCSW-230125
Inj Date : 25-JAN-2023 08:42
Operator : FT Inst ID: voa6.i
Smp Info : VLCSW-230125;VLCSW-230125;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\8260W.m
Meth Date : 03-Feb-2023 10:54 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.178	(1.000)	500560	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	58102	16.8584	16.85
3 Chloromethane	50	1.074	1.074	(0.257)	77964	18.6651	18.66
4 Propionitrile	54	3.649	3.645	(0.874)	94823	185.654	185.65(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	80772	18.4720	18.47
6 Bromomethane	94	1.336	1.336	(0.320)	60028	19.2740	19.27
7 Chloroethane	64	1.400	1.400	(0.335)	53237	17.4919	17.49
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	128371	20.9788	20.97
9 Acrolein	56	1.441	1.441	(0.345)	11817	36.3667	36.36
10 Acetone	43	1.969	1.966	(0.472)	56289	40.0563	40.05
11 1,1-Dichloroethene	96	1.909	1.910	(0.458)	71528	18.8280	18.82
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	241151	428.317	428.31(a)
13 Acetonitrile	39	2.194	2.195	(0.526)	89588	196.649	196.64(a)
14 Allyl Chloride	41	2.194	2.195	(0.526)	162924	18.7772	18.77(a)
15 Iodomethane	142	2.022	2.022	(0.485)	172604	37.5550	37.55
16 Acrylonitrile	53	2.532	2.528	(0.607)	51527	39.9906	39.99
17 Methylene Chloride	84	2.299	2.299	(0.551)	95857	18.3950	18.39
18 Methyl tert-butyl ether	73	2.532	2.528	(0.607)	224063	18.0188	18.01
19 Carbon Disulfide	76	2.067	2.063	(0.495)	385111	38.7450	38.74
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	81438	19.1538	19.15

21 Vinyl Acetate	43	2.993	2.993 (0.717)	454083	41.5984	41.59
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	143741	19.2631	19.26

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012504.D Page 2
Report Date: 03-Feb-2023 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	31586	18.5585	18.55(M)
	24 2-Butanone	43	3.581	3.570	(0.858)	56646	39.8975	39.89
	25 Methacrylonitrile	41	3.825	3.814	(0.916)	67374	19.0086	19.00(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.839)	133716	21.1054	21.10
	27 cis-1,2-Dichloroethene	96	3.521	3.518	(0.844)	90823	17.5525	17.55
	28 Chloroform	83	3.904	3.900	(0.935)	159752	19.1011	19.10
	29 Bromochloromethane	128	3.791	3.791	(0.908)	49642	17.5223	17.52
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	240632	50.0655	50.06
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.978)	138918	20.9350	20.93
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	119854	22.5685	22.56
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	123151	20.0935	20.09
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	118780	20.9450	20.94
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.071)	290294	57.1837	57.18
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	748036	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	346195	19.3806	19.38
	38 Trichloroethene	130	5.205	5.205	(1.049)	102547	20.2402	20.24
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	126582	18.8821	18.88
	40 Methyl Methacrylate	41	5.606	5.602	(1.343)	65230	19.1117	19.11(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.219)	80217	42.0600	42.05
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	88209	18.5639	18.56
	43 2-Nitropropane	43	5.969	5.966	(1.430)	24703	19.5430	19.54
	44 Dibromomethane	93	5.553	5.550	(1.119)	61297	18.9792	18.97
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	155646	41.3057	41.30
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	150359	19.0978	19.09
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	704985	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	902781	51.8224	51.82
	49 Ethyl Methacrylate	69	6.712	6.708	(1.353)	70323	19.9637	19.96(a)
	50 Toluene	91	6.445	6.445	(0.841)	385056	19.7607	19.76
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	130343	19.9492	19.94
	52 2-Hexanone	43	7.086	7.086	(0.924)	112836	44.0126	44.01
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	75254	19.2504	19.25
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	148834	19.3426	19.34
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	107999	19.1416	19.14
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	87789	21.7745	21.77
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	95798	19.5998	19.59
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	74809	20.6940	20.69(M)
	59 Chlorobenzene	112	7.694	7.690	(1.003)	266989	19.3172	19.31
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	97688	18.9923	18.99
	61 Ethylbenzene	106	7.799	7.799	(1.017)	137251	21.0813	21.08
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	345150	41.1242	41.12
	63 o-Xylene	106	8.241	8.241	(1.075)	167192	20.1833	20.18
	64 Styrene	104	8.260	8.256	(1.077)	279485	20.1294	20.12
	66 Bromoform	173	8.410	8.410	(1.097)	71875	18.3882	18.38
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	432601	22.8585	22.85
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	121485	18.8726	18.87
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	348912	53.5785	53.57
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	403871	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	91194	20.2928	20.29(M)
	72 trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	31311	20.5738	20.57(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	508543	22.7324	22.73
	74 Bromobenzene	156	8.803	8.803	(0.911)	127167	19.1918	19.19
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	369105	22.3347	22.33

76	2-Chlorotoluene	91	8.976	8.972 (0.929)	307477	20.9453	20.94
77	4-Chlorotoluene	91	9.069	9.070 (0.939)	353351	21.1145	21.11

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012504.D Page 3
Report Date: 03-Feb-2023 10:54

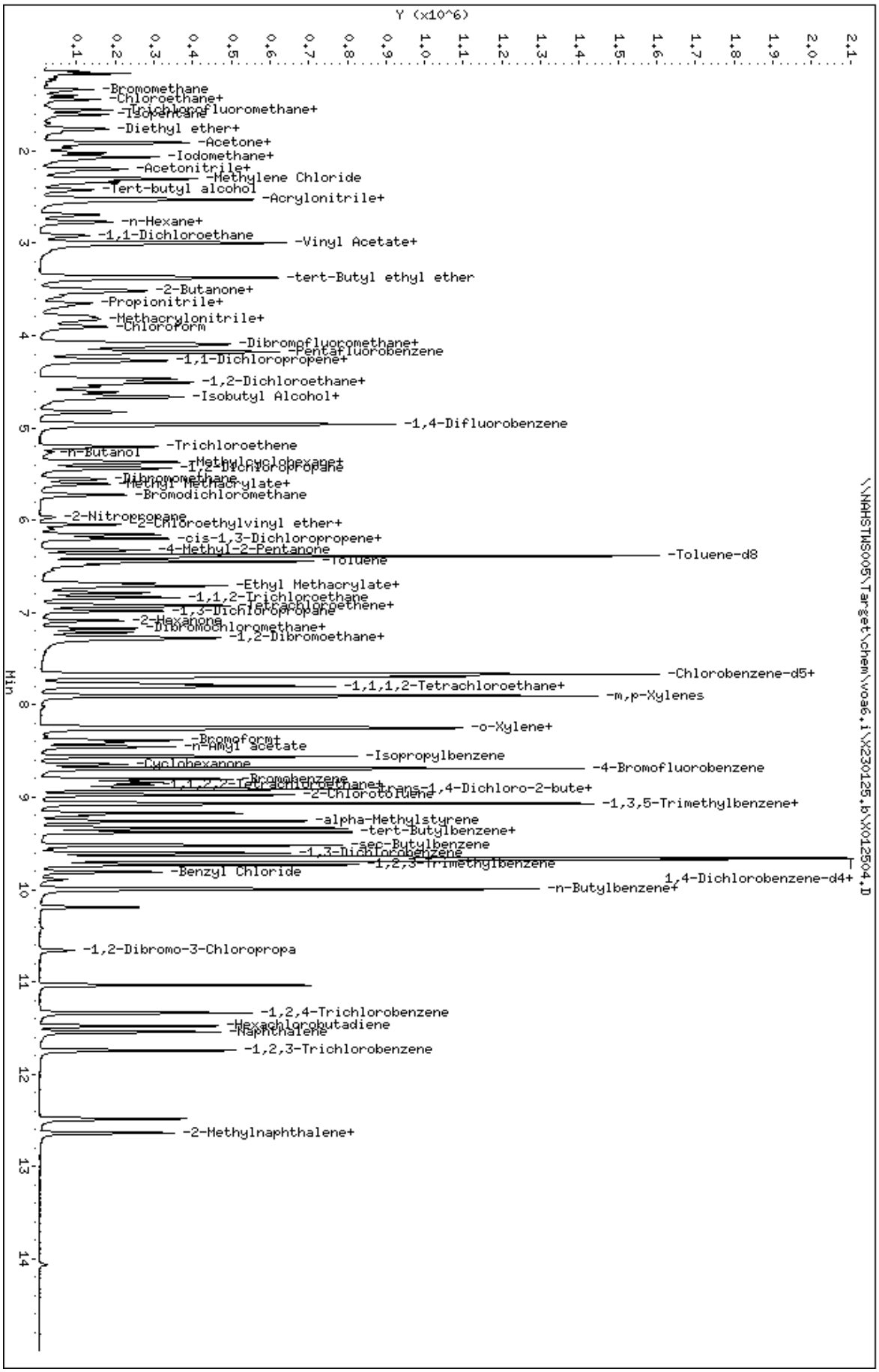
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	312563	23.1055	23.10
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	369439	21.2458	21.24
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	440103	24.4515	24.45
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	388937	24.1143	24.11
83	1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	223225	20.2972	20.29
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	239001	19.9149	19.91
86	Benzyl Chloride	91	9.808	9.808	(1.279)	188980	18.9002	18.90
87	n-Butylbenzene	91	9.995	9.992	(1.035)	345863	23.2357	23.23
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	221634	19.5676	19.56
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	19712	19.2107	19.21
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	157201	21.9921	21.99
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	76005	24.1139	24.11
92	Naphthalene	128	11.544	11.540	(1.195)	340798	20.9546	20.95
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	142560	20.8239	20.82
146	Methyl acetate	43	2.228	2.225	(0.534)	44007	19.5378	19.53
138	Freon TF	101	1.909	1.913	(0.458)	79786	21.7139	21.71
141	Cyclohexane	56	4.117	4.118	(0.987)	124391	25.2928	25.29
142	Tetrahydrofuran	42	3.836	3.836	(0.919)	23654	36.0489	36.04
147	Methylcyclohexane	55	5.381	5.373	(1.085)	199934	21.8350	21.83
135	1,4-Dioxane	88	5.606	5.595	(1.343)	18241	398.655	398.65
132	n-Butanol	56	5.265	5.253	(1.261)	20794	362.557	362.55(a)
131	Methyl Acrylate	55	3.690	3.683	(0.884)	80680	23.7409	23.74
133	Ethyl Acrylate	55	5.381	5.373	(1.289)	199934	21.4694	21.46
136	n-Hexane	57	2.768	2.768	(0.663)	89810	24.9189	24.91
139	Diethyl ether	59	1.752	1.752	(0.420)	52897	15.8154	15.81
148	Tert-butyl alcohol	59	2.419	2.419	(0.580)	160526	463.140	463.13
149	Isopropyl alcohol	45	2.089	2.090	(0.501)	84296	465.689	465.68
156	Diisopropyl ether	45	2.997	2.993	(0.718)	232079	17.8729	17.87
160	2-Methylnaphthalene	142	12.638	12.634	(1.308)	158438	20.2201	20.22
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	365806	18.8090	18.80
167	Ethanol	45	1.696	1.696	(0.406)	14417	440.282	440.28
172	tert-Butyl formate	59	4.612	4.612	(1.105)	123453	46.4786	46.47
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	142490	427.187	427.18
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	270138	18.7221	18.72
175	tert-Butyl ethyl ether	59	3.371	3.368	(0.808)	246515	17.8664	17.86
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	123453	459.214	459.21
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	295694	417.645	417.64
180	1-Methylnaphthalene	142	12.638	12.634	(1.308)	158438		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	63631	18.5220	18.52
152	Amyl alcohol	42	6.906	6.903	(0.901)	24526	351.812	351.81
158	Dichlorofluoromethane	67	1.531	1.527	(0.367)	11582	17.8698	17.86
159	Propylene oxide	43	1.752	1.752	(0.420)	11215	35.6288	35.62
161	3-Methyl-1-butanol	55	6.906	6.903	(0.901)	26789	384.345	384.34
162	Butyl acrylate	55	8.252	8.249	(1.076)	179243	19.4638	19.46
182	Epichlorohydrin	57	6.097	6.093	(1.229)	26494	80.5970	80.59
M 94	1,2-Dichloroethylene (total)	96				172261	36.7063	36.70
M 95	Xylenes (total)	106				512342	61.3075	61.30
145	alpha-Methylstyrene	118	9.261	9.257	(0.958)	170664	19.0714	19.07
130	Ethyl Acetate	43	3.649	3.649	(0.874)	86826	22.2291	22.22
134	Cyclohexanone	55	8.642	8.642	(0.894)	73448	435.970	435.96(a)
185	Isoprene	39	1.767	1.767	(0.423)	29172	21.8762	21.87
186	Isopentane	42	1.606	1.606	(0.385)	47504		(a)

188 Isopropyl acetate	43	4.672	4.672 (0.942)	241722	20.7991	20.79
187 n-Amyl acetate	43	8.455	8.451 (1.103)	167448	20.3693	20.36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	135699	22.4074	22.40
150 Allyl alcohol	57	2.768	2.768	(0.663)	89810	488.141	488.14
194 Acetaldehyde	44	1.209	1.209	(0.290)	70479	224.867	224.86
195 Methyl Amyl Ketone	43	8.383	8.380	(1.093)	180161	19.2210	19.22
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	164007	17.1891	17.18
168 1-Propanol	59	2.993	2.993	(0.717)	26745	326.941	326.94

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\voa6.i\X230125.b\X012504.D
Date : 25-JAN-2023 08:42
Client ID: VLCSW-230125
Sample Info: VLCSW-230125;VLCSW-230125;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012504.D
Inj Date : 25-JAN-2023 08:42
InstruID : voa6.i
LabSampID : VLCSW-230125

1-Chlorohexane (544-10-5)

Reason Code:

BEFORE
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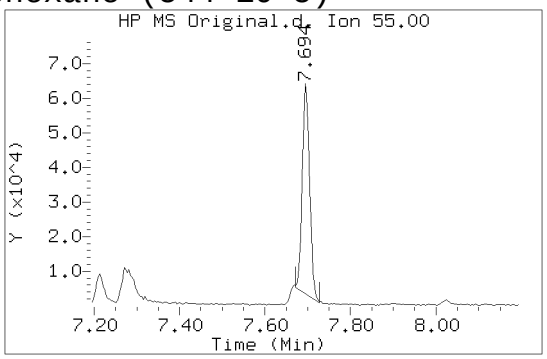
HEIGHT
60632
03-Feb-2023
10:53
linh
pham



AFTER
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03-Feb-2023
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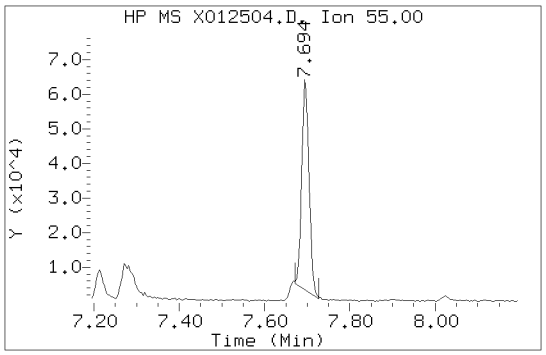

BEFORE
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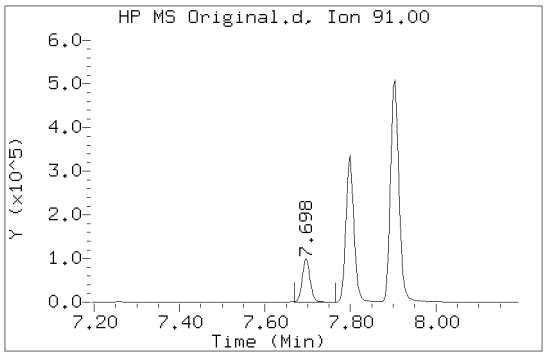

AFTER
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03-Feb-2023
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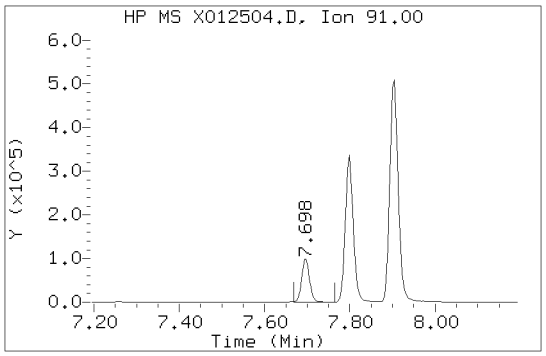

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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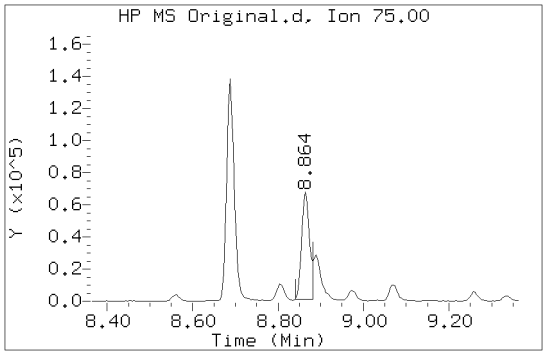

AFTER
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03-Feb-2023
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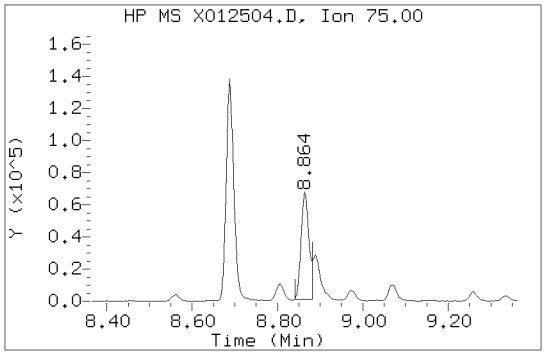

BEFORE
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HEIGHT
22312
03-Feb-2023
10:53
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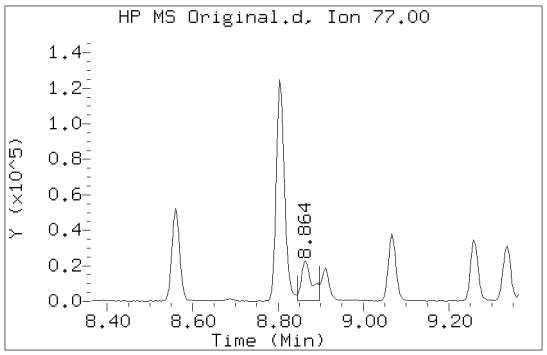

AFTER
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AREA
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HEIGHT
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03-Feb-2023
10:53
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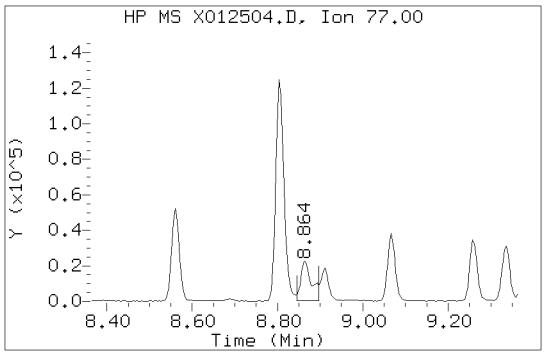
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012504.D
Inj Date : 25-JAN-2023 08:42
InstruID : voa6.i
LabSampID : VLCSW-230125

Chloroprene (126-99-8)

Reason Code:

BEFORE

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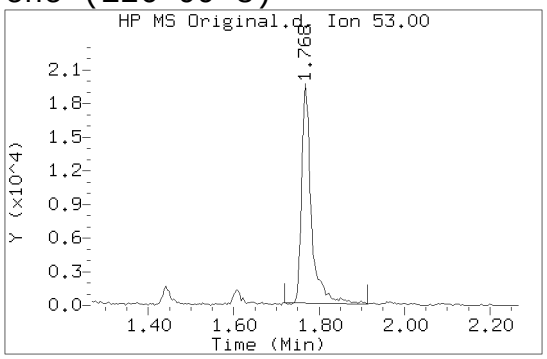
HEIGHT
19577
03-Feb-2023
10:53
linh
pham



AFTER

MASS
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AREA
31586
HEIGHT
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03-Feb-2023
10:53
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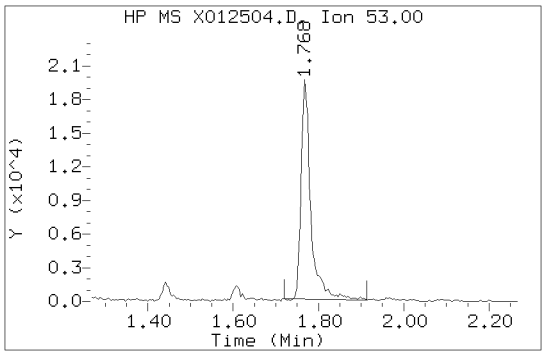

BEFORE

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HEIGHT
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03-Feb-2023
10:53
linh
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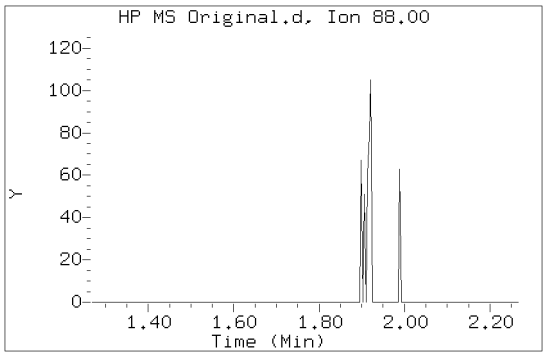

AFTER

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AREA
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HEIGHT
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03-Feb-2023
10:53
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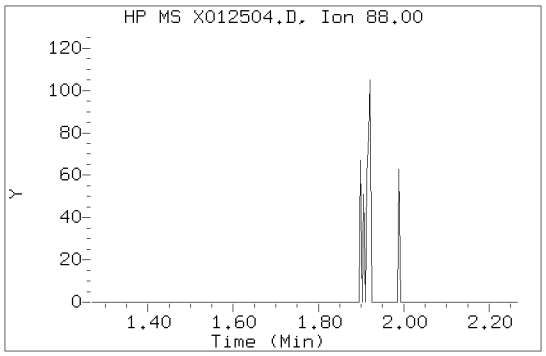


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012506.D Page 1
Report Date: 03-Feb-2023 10:54

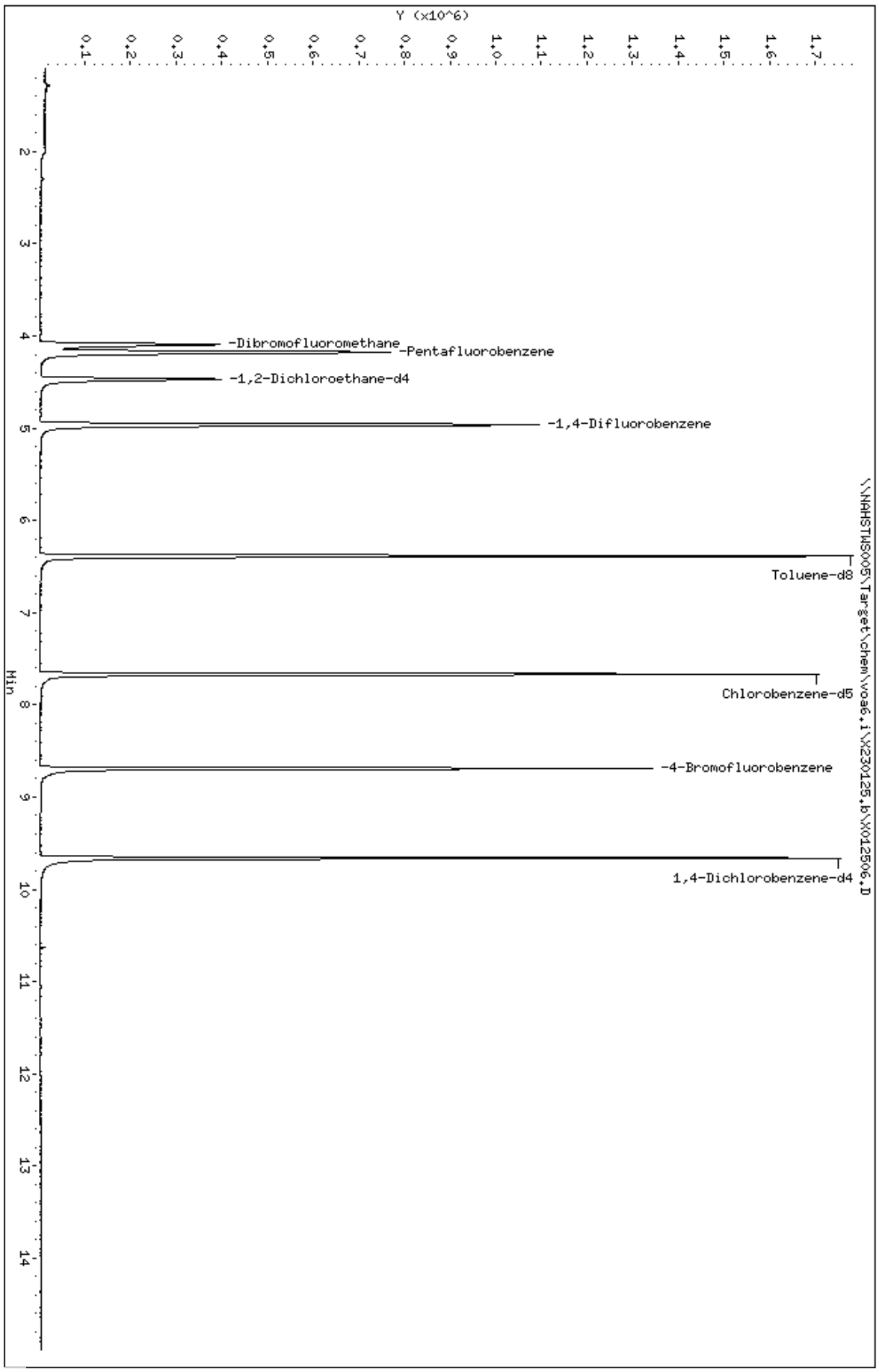
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012506.D
Lab Smp Id: VBLKW-230125 Client Smp ID: VBLKW-230125
Inj Date : 25-JAN-2023 09:24
Operator : FT Inst ID: voa6.i
Smp Info : VBLKW-230125;VBLKW-230125;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\8260W.m
Meth Date : 03-Feb-2023 10:54 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.178	(1.000)	637607	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	279017	45.5593	45.55
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	314418	48.6639	48.66
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	893865	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	802467	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1042794	52.5879	52.58
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	372513	50.2578	50.25
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	420093	50.0000	



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Date : 25-JAN-2023 09:24
Client ID: VBLKW-230125
Sample Info: VBLKW-230125;VBLKW-230125;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012506.D
Inj Date : 25-JAN-2023 09:24
InstruID : voa6.i
LabSampID : VBLKW-230125

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012509.D Page 1
Report Date: 03-Feb-2023 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012509.D
Lab Smp Id: HS23010982-02MS Client Smp ID: HS23010982-02MS
Inj Date : 25-JAN-2023 10:27
Operator : FT Inst ID: voa6.i
Smp Info : HS23010982-02MS;HS23010982-02MS;3;;MS
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\8260W.m
Meth Date : 03-Feb-2023 10:54 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 10 QC Sample: MS
Dil Factor: 100.00000
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	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	4.174	4.178	(1.000)	626410	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	58311	13.5977	1359.77
3 Chloromethane	50	1.074	1.074	(0.257)	77240	15.2374	1523.73
4 Propionitrile	54	3.645	3.645	(0.873)	111110	173.837	17383.66(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	84724	15.4831	1548.30
6 Bromomethane	94	1.336	1.336	(0.320)	63753	16.6244	1662.44
7 Chloroethane	64	1.400	1.400	(0.335)	54181	14.2255	1422.55
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	141816	18.5198	1851.97
9 Acrolein	56	1.441	1.441	(0.345)	16423	40.0755	4007.55
10 Acetone	43	1.970	1.966	(0.472)	43279	24.5974	2459.73
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	77833	16.3715	1637.15
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	249489	354.099	35409.94(a)
13 Acetonitrile	39	2.194	2.195	(0.526)	115716	202.971	20297.07(a)
14 Allyl Chloride	41	2.194	2.195	(0.526)	198552	18.2860	1828.59(a)
15 Iodomethane	142	2.022	2.022	(0.485)	165580	29.6492	2964.92
16 Acrylonitrile	53	2.532	2.528	(0.607)	54651	33.8936	3389.36
17 Methylene Chloride	84	2.299	2.299	(0.551)	92265	14.1485	1414.85
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	270567	17.3871	1738.70
19 Carbon Disulfide	76	2.063	2.063	(0.494)	412065	33.1278	3312.78
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	87056	16.3615	1636.15

21 Vinyl Acetate	43	2.993	2.993 (0.717)	472551	34.5929	3459.29
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	141489	15.1519	1515.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012509.D Page 2
Report Date: 03-Feb-2023 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	36667	17.2156	1721.55(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	49346	28.6925	2869.25
	25 Methacrylonitrile	41	3.818	3.814	(0.915)	73869	16.6540	1665.39(a)
	26 2,2-Dichloropropane	77	3.506	3.503	(0.840)	139883	17.6430	1764.29
	27 cis-1,2-Dichloroethene	96	3.521	3.518	(0.844)	104263	16.1016	1610.16
	28 Chloroform	83	3.904	3.900	(0.935)	164111	15.6801	1568.00
	29 Bromochloromethane	128	3.788	3.791	(0.907)	50653	14.2871	1428.70
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	267502	44.4558	44.45
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.978)	149190	17.9660	1796.60
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	124689	20.1273	2012.72
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	127874	17.8857	1788.56
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	129292	19.5441	1954.40
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.071)	309465	48.7530	48.75
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	872602	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	359547	17.2548	1725.47
	38 Trichloroethene	130	5.205	5.205	(1.049)	309209	52.3179	5231.79
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	128172	16.3899	1638.99
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	76130	17.8240	1782.40(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.219)	62675	28.1710	2817.10
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	90573	16.3404	1634.03
	43 2-Nitropropane	43	5.966	5.966	(1.429)	26071	16.4815	1648.14
	44 Dibromomethane	93	5.549	5.550	(1.119)	62046	16.4687	1646.86
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	145959	34.2330	3423.30
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	152472	16.6016	1660.16
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	797697	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	1026458	52.0736	52.07
	49 Ethyl Methacrylate	69	6.712	6.708	(1.353)	68211	16.5998	1659.98(a)
	50 Toluene	91	6.445	6.445	(0.841)	404282	18.3360	1833.59
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	128081	16.8046	1680.46
	52 2-Hexanone	43	7.086	7.086	(0.924)	96285	33.1917	3319.17
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	72710	16.4379	1643.78
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	148922	17.1046	1710.46
	55 Dibromochloromethane	129	7.176	7.173	(0.936)	105925	16.5920	1659.19
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	93665	20.5319	2053.18
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	95245	17.2219	1722.18
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	100828	23.9099	2390.98
	59 Chlorobenzene	112	7.694	7.690	(1.003)	274218	17.5343	1753.43
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	99237	17.0510	1705.10
	61 Ethylbenzene	106	7.799	7.799	(1.017)	142652	19.3643	1936.42
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	361570	38.0736	3807.36
	63 o-Xylene	106	8.241	8.241	(1.075)	171317	18.2776	1827.75
	64 Styrene	104	8.260	8.256	(1.077)	287098	18.2744	1827.44
	66 Bromoform	173	8.410	8.410	(1.097)	70090	15.8474	1584.74
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	450574	21.0411	2104.11
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	118286	16.6484	1664.83
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	380141	51.5919	51.59
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	445771	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	125906	25.3835	2538.35
	72 trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	29802	17.3063	1730.63(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	530723	21.4939	2149.39
	74 Bromobenzene	156	8.803	8.803	(0.911)	129497	17.7065	1770.64
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	382531	20.9714	2097.14

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	321393	19.8354	1983.54
77	4-Chlorotoluene	91	9.069	9.070 (0.939)	368587	19.9547	1995.46

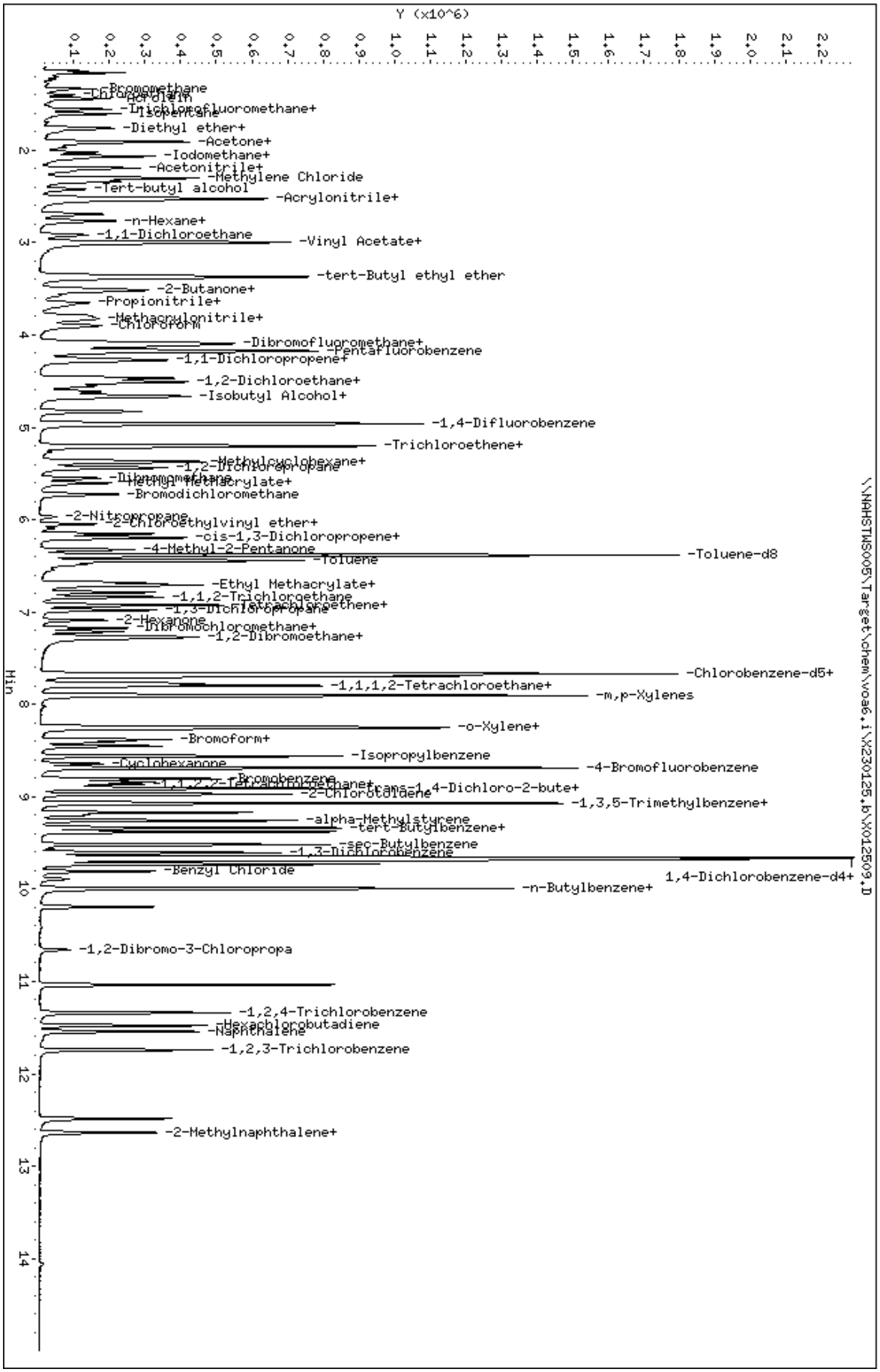
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	325176	21.7784	2177.84
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	381672	19.8862	1988.61
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	463660	23.3389	2333.89
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	406021	22.8074	2280.73
83	1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	227898	18.7743	1877.43
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	241824	18.2561	1825.60
86	Benzyl Chloride	91	9.808	9.808	(1.279)	185241	16.7332	1673.31
87	n-Butylbenzene	91	9.995	9.992	(1.035)	360426	22.0373	2203.72
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	223454	17.8739	1787.39
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18561	16.4023	1640.22
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	159274	20.1877	2018.77
91	Hexachlorobutadiene	225	11.476	11.480	(1.188)	76456	21.9834	2198.34
92	Naphthalene	128	11.544	11.540	(1.195)	321623	17.9168	1791.68
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	141439	18.7182	1871.81
146	Methyl acetate	43	2.228	2.225	(0.534)	44452	15.7704	1577.03
138	Freon TF	101	1.910	1.913	(0.458)	88921	19.3380	1933.80
141	Cyclohexane	56	4.117	4.118	(0.987)	141893	23.1666	2316.66
142	Tetrahydrofuran	42	3.844	3.836	(0.921)	27078	32.7063	3270.63
147	Methylcyclohexane	55	5.377	5.373	(1.084)	238673	22.3448	2234.47
135	1,4-Dioxane	88	5.598	5.595	(1.341)	18376	320.920	32091.97
132	n-Butanol	56	5.265	5.253	(1.261)	18418	269.417	26941.70(a)
131	Methyl Acrylate	55	3.686	3.683	(0.883)	67558	15.8856	1588.56
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	238673	20.5645	2056.45
136	n-Hexane	57	2.768	2.768	(0.663)	104178	23.0982	2309.82
139	Diethyl ether	59	1.752	1.752	(0.420)	65763	15.7119	1571.19
148	Tert-butyl alcohol	59	2.423	2.419	(0.581)	142924	329.510	32951.03
149	Isopropyl alcohol	45	2.089	2.090	(0.501)	75912	335.118	33511.76
156	Diisopropyl ether	45	2.997	2.993	(0.718)	287410	17.6872	1768.71
160	2-Methylnaphthalene	142	12.638	12.634	(1.308)	148430	17.1624	1716.23
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	424374	19.7695	1976.94
167	Ethanol	45	1.700	1.696	(0.407)	11888	288.985	28898.48
172	tert-Butyl formate	59	4.616	4.612	(1.106)	104539	31.4505	3145.04
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	127279	337.235	33723.46
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	312908	17.3293	1732.93
175	tert-Butyl ethyl ether	59	3.371	3.368	(0.808)	300701	17.4151	1741.50
176	tert-Amyl alcohol	59	4.616	4.612	(1.106)	104539	310.734	31073.40
151	4-Methyl-2-pentanol	45	6.712	6.708	(1.353)	245618	297.393	29739.30
180	1-Methylnaphthalene	142	12.638	12.634	(1.308)	148430		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	64921	15.1008	1510.08
152	Amyl alcohol	42	6.906	6.903	(0.901)	19876	251.973	25197.33
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	13540	16.6937	1669.36
159	Propylene oxide	43	1.752	1.752	(0.420)	13277	33.7054	3370.53
161	3-Methyl-1-butanol	55	6.910	6.903	(0.901)	22134	280.651	28065.10
162	Butyl acrylate	55	8.252	8.249	(1.076)	198091	19.0104	1901.03
182	Epichlorohydrin	57	6.097	6.093	(1.229)	27198	71.2273	7122.73
M 94	1,2-Dichloroethylene (total)	96				191319	32.4632	3246.31
M 95	Xylenes (total)	106				532887	56.3512	5635.12
145	alpha-Methylstyrene	118	9.261	9.257	(0.958)	181870	18.4133	1841.33
130	Ethyl Acetate	43	3.656	3.649	(0.876)	80368	16.4419	1644.19
134	Cyclohexanone	55	8.642	8.642	(0.894)	58798	316.206	31620.56(a)
185	Isoprene	39	1.767	1.767	(0.423)	31738	19.0188	1901.87
186	Isopentane	42	1.606	1.606	(0.385)	61743		(a)

188 Isopropyl acetate	43	4.672	4.672 (0.942)	250591	18.4842	1848.41
187 n-Amyl acetate	43	8.451	8.451 (1.102)	159497	17.1471	1714.71

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	130084	18.9837	1898.37
150 Allyl alcohol	57	2.768	2.768	(0.663)	104178	452.474	45247.43
194 Acetaldehyde	44	1.209	1.209	(0.290)	36110	78.3117	7831.16
195 Methyl Amyl Ketone	43	8.383	8.380	(1.093)	184039	17.3527	1735.26
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	204932	18.9820	1898.19
168 1-Propanol	59	2.993	2.993	(0.717)	31924	311.847	31184.65

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS23010982-02MS;HS23010982-02MS;3;;MS
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Instrument: voa6,i
Operator: FT
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Chloroprene (126-99-8)

Reason Code:

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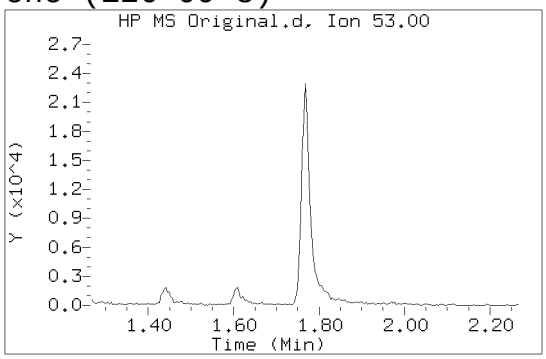

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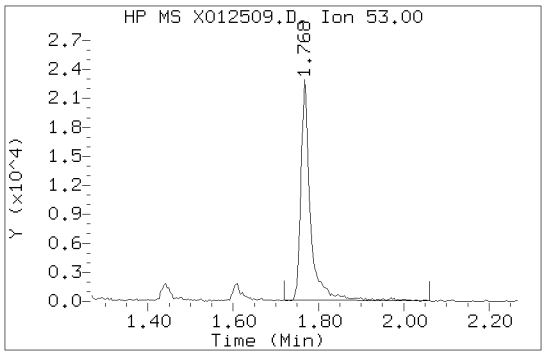

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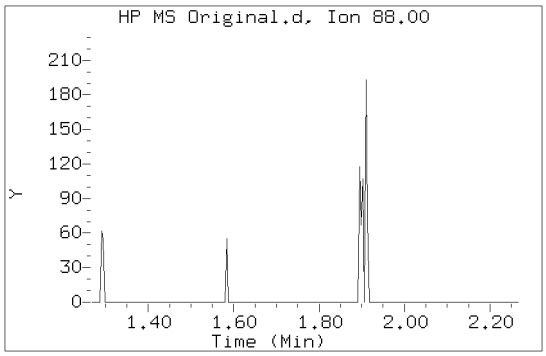

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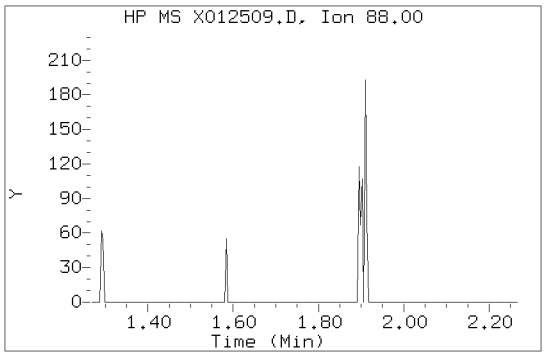

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Report Date: 03-Feb-2023 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012510.D
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Inj Date : 25-JAN-2023 10:48
Operator : FT Inst ID: voa6.i
Smp Info : HS23010982-02MSD;HS23010982-02MSD;3;;MSD
Misc Info : V6;WATER;0;100;
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Meth Date : 03-Feb-2023 10:54 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 100.00000
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	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	4.177	4.178	(1.000)	632455	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	50356	11.6872	1168.72
3 Chloromethane	50	1.074	1.074	(0.257)	72365	14.2986	1429.86
4 Propionitrile	54	3.649	3.645	(0.873)	103989	161.140	16114.04(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	75145	13.6013	1360.12
6 Bromomethane	94	1.336	1.336	(0.320)	57240	14.9788	1497.87
7 Chloroethane	64	1.400	1.400	(0.335)	50290	13.0777	1307.77
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	125840	16.2764	1627.63
9 Acrolein	56	1.441	1.441	(0.345)	13732	33.6736	3367.35
10 Acetone	43	1.970	1.966	(0.472)	40961	23.0553	2305.52
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	69366	14.4511	1445.10
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	235824	331.506	33150.56(a)
13 Acetonitrile	39	2.194	2.195	(0.525)	101610	176.525	17652.47(a)
14 Allyl Chloride	41	2.194	2.195	(0.525)	179427	16.3667	1636.66(a)
15 Iodomethane	142	2.026	2.022	(0.485)	162412	28.9064	2890.63
16 Acrylonitrile	53	2.528	2.528	(0.605)	50045	30.7404	3074.04
17 Methylene Chloride	84	2.299	2.299	(0.550)	86384	13.1201	1312.00
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	251787	16.0256	1602.56
19 Carbon Disulfide	76	2.067	2.063	(0.495)	374618	29.8294	2982.94
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	78709	14.6514	1465.13

21 Vinyl Acetate	43	2.993	2.993 (0.716)	443804	32.1780	3217.80
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	137617	14.5964	1459.63

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	33173	15.4262	1542.62(M)
	24 2-Butanone	43	3.578	3.570	(0.856)	43625	25.4999	2549.98
	25 Methacrylonitrile	41	3.825	3.814	(0.916)	68886	15.3821	1538.21(a)
	26 2,2-Dichloropropane	77	3.506	3.503	(0.839)	131279	16.3995	1639.95
	27 cis-1,2-Dichloroethene	96	3.521	3.518	(0.843)	98349	15.0432	1504.31
	28 Chloroform	83	3.904	3.900	(0.935)	155081	14.6757	1467.56
	29 Bromochloromethane	128	3.795	3.791	(0.908)	47646	13.3105	1331.04
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	271287	44.6546	44.65
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	139045	16.5843	1658.42
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	116522	18.5516	1855.16
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	126431	17.4419	1744.18
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	118310	17.6393	1763.93
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	310087	48.3861	48.38
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	884706	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	332700	15.7479	1574.79
	38 Trichloroethene	130	5.205	5.205	(1.049)	292146	48.7546	4875.45
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	121126	15.2770	1527.70
	40 Methyl Methacrylate	41	5.606	5.602	(1.342)	67421	15.6341	1563.41(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.219)	55168	24.4576	2445.75
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	85609	15.2335	1523.34
	43 2-Nitropropane	43	5.969	5.966	(1.429)	24143	15.1168	1511.67
	44 Dibromomethane	93	5.549	5.550	(1.119)	58076	15.2040	1520.40
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	138341	32.1056	3210.56
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	145914	15.6702	1567.02
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	806161	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1038595	52.1362	52.13
	49 Ethyl Methacrylate	69	6.712	6.708	(1.353)	61598	14.7854	1478.53(a)
	50 Toluene	91	6.445	6.445	(0.841)	371749	16.6834	1668.34
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	123452	15.9757	1597.56
	52 2-Hexanone	43	7.086	7.086	(0.924)	93546	31.9089	3190.89
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	70094	15.6801	1568.00
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	140924	16.0161	1601.60
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	100143	15.5216	1552.16
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	85300	18.5019	1850.18
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	91103	16.3000	1629.99
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	91685	21.4443	2144.42
	59 Chlorobenzene	112	7.694	7.690	(1.003)	253762	16.0559	1605.59
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	93672	15.9259	1592.58
	61 Ethylbenzene	106	7.799	7.799	(1.017)	132598	17.8105	1781.05
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	336613	35.0735	3507.34
	63 o-Xylene	106	8.241	8.241	(1.075)	158693	16.7530	1675.29
	64 Styrene	104	8.260	8.256	(1.077)	265706	16.7352	1673.51
	66 Bromoform	173	8.410	8.410	(1.097)	66572	14.8940	1489.39
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	415139	19.1828	1918.28
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	111821	15.9223	1592.23
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	379681	50.9892	50.98
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	440623	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	116021	23.6639	2366.39
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	29035	16.6839	1668.38(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	495046	20.2833	2028.32
	74 Bromobenzene	156	8.803	8.803	(0.911)	120020	16.6024	1660.23
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	353139	19.5863	1958.62

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	295544	18.4532	1845.31
77	4-Chlorotoluene	91	9.069	9.070 (0.939)	343139	18.7940	1879.39

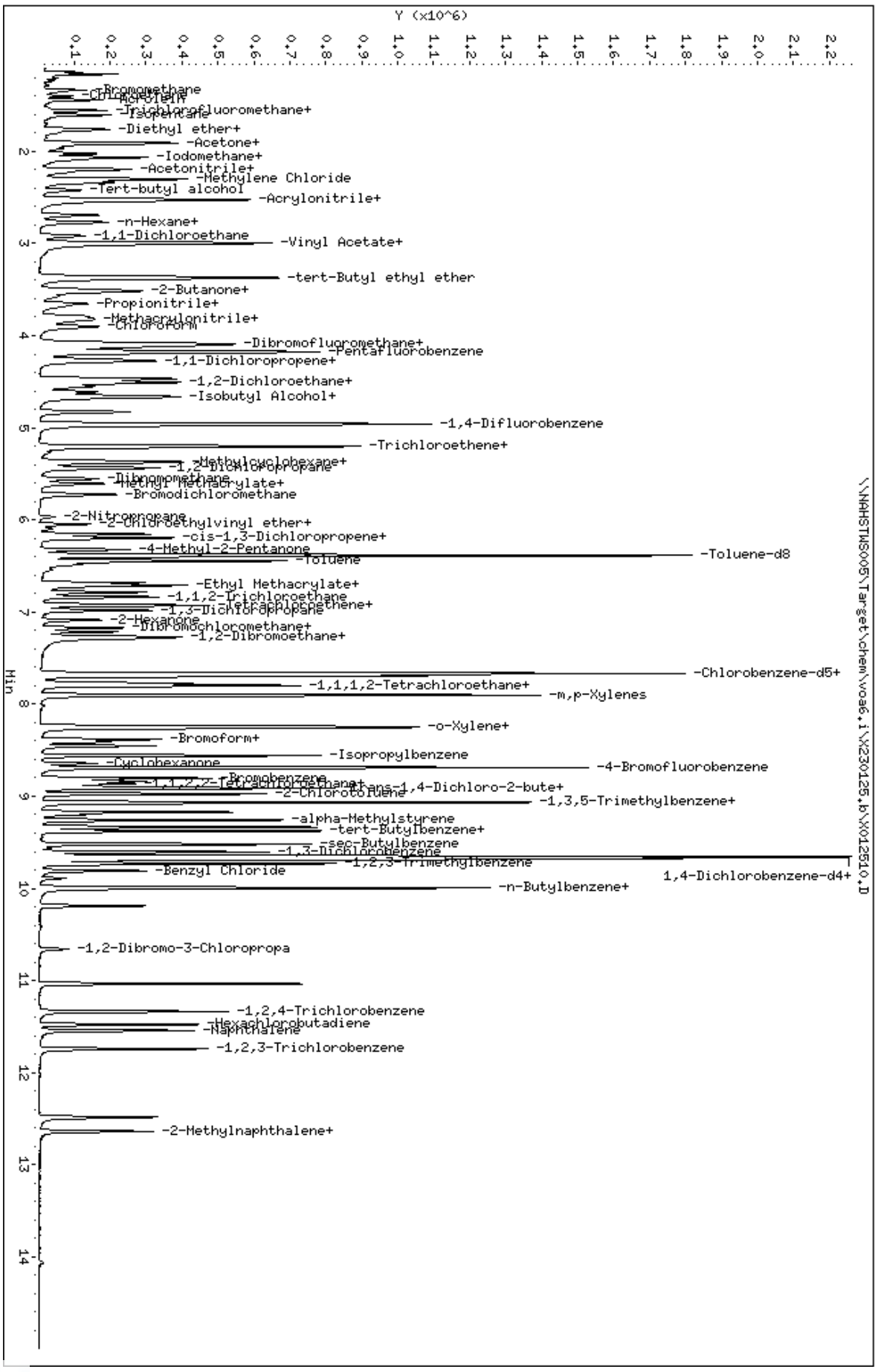
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	302910	20.5242	2052.41
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	352954	18.6048	1860.47
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	425079	21.6469	2164.68
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	376663	21.4055	2140.54
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	214019	17.8369	1783.69
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	228023	17.4153	1741.53
86	Benzyl Chloride	91	9.808	9.808	(1.279)	174440	15.7757	1577.57
87	n-Butylbenzene	91	9.995	9.992	(1.035)	333958	20.7687	2076.86
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	212806	17.2211	1722.10
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18031	16.1217	1612.16
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	145358	18.6391	1863.91
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	71697	20.8588	2085.87
92	Naphthalene	128	11.544	11.540	(1.195)	306540	17.2761	1727.60
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	133231	17.8379	1783.79
146	Methyl acetate	43	2.228	2.225	(0.533)	42423	14.9067	1490.66
138	Freon TF	101	1.913	1.913	(0.458)	79143	17.0471	1704.70
141	Cyclohexane	56	4.121	4.118	(0.987)	128815	20.9575	2095.75
142	Tetrahydrofuran	42	3.848	3.836	(0.921)	23991	28.3129	2831.28
147	Methylcyclohexane	55	5.377	5.373	(1.084)	213209	19.6877	1968.77
135	1,4-Dioxane	88	5.602	5.595	(1.341)	16834	291.180	29118.02
132	n-Butanol	56	5.272	5.253	(1.262)	16509	243.951	24395.11(a)
131	Methyl Acrylate	55	3.686	3.683	(0.882)	67448	15.7082	1570.81
133	Ethyl Acrylate	55	5.377	5.373	(1.287)	213209	18.4058	1840.58
136	n-Hexane	57	2.772	2.768	(0.664)	92585	20.3316	2033.16
139	Diethyl ether	59	1.756	1.752	(0.420)	60245	14.2560	1425.59
148	Tert-butyl alcohol	59	2.423	2.419	(0.580)	130243	297.404	29740.43
149	Isopropyl alcohol	45	2.089	2.090	(0.500)	72113	315.304	31530.40
156	Diisopropyl ether	45	2.993	2.993	(0.716)	262805	16.0184	1601.84
160	2-Methylnaphthalene	142	12.638	12.634	(1.308)	138918	16.2502	1625.02
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	381219	17.9666	1796.65
167	Ethanol	45	1.703	1.696	(0.408)	12630	304.260	30425.99
172	tert-Butyl formate	59	4.612	4.612	(1.104)	97750	29.1269	2912.69
173	3,3-Dimethyl-1-butanol	57	7.289	7.285	(0.951)	110013	288.427	28842.67
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	287932	15.7937	1579.37
175	tert-Butyl ethyl ether	59	3.368	3.368	(0.806)	272437	15.6273	1562.73
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	97750	287.777	28777.71
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	224228	267.780	26777.96
180	1-Methylnaphthalene	142	12.638	12.634	(1.308)	138918		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	59453	13.6968	1369.67
152	Amyl alcohol	42	6.910	6.903	(0.901)	18742	235.103	23510.27
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	11777	14.3813	1438.12
159	Propylene oxide	43	1.752	1.752	(0.419)	11473	28.8473	2884.72
161	3-Methyl-1-butanol	55	6.910	6.903	(0.901)	22658	284.279	28427.88
162	Butyl acrylate	55	8.252	8.249	(1.076)	176886	16.7972	1679.71
182	Epichlorohydrin	57	6.093	6.093	(1.228)	26808	69.3150	6931.50
M 94	1,2-Dichloroethylene (total)	96				177058	29.6945	2969.45
M 95	Xylenes (total)	106				495306	51.8265	5182.64
145	alpha-Methylstyrene	118	9.261	9.257	(0.958)	172091	17.6268	1762.68
130	Ethyl Acetate	43	3.653	3.649	(0.874)	84036	17.0280	1702.80
134	Cyclohexanone	55	8.642	8.642	(0.894)	53284	289.900	28990.01(a)
185	Isoprene	39	1.767	1.767	(0.423)	28626	16.9900	1698.99
186	Isopentane	42	1.606	1.606	(0.384)	55659		(a)

188 Isopropyl acetate	43	4.672	4.672 (0.942)	236539	17.2090	1720.89
187 n-Amyl acetate	43	8.451	8.451 (1.102)	150389	15.9982	1599.81

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	122436	17.6800	1768.00
150 Allyl alcohol	57	2.772	2.768	(0.664)	92585	398.279	39827.91
195 Methyl Amyl Ketone	43	8.383	8.380	(1.093)	168599	15.7300	1572.99
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	190098	17.4231	1742.31
168 1-Propanol	59	2.993	2.993	(0.716)	28203	272.865	27286.50

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: HS23010982-02HSD
Sample Info: HS23010982-02HSD;HS23010982-02HSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012510.D
Inj Date : 25-JAN-2023 10:48
InstruID : voa6.i
LabSampID : HS23010982-02MSD

Chloroprene (126-99-8)

Reason Code:

BEFORE

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HEIGHT
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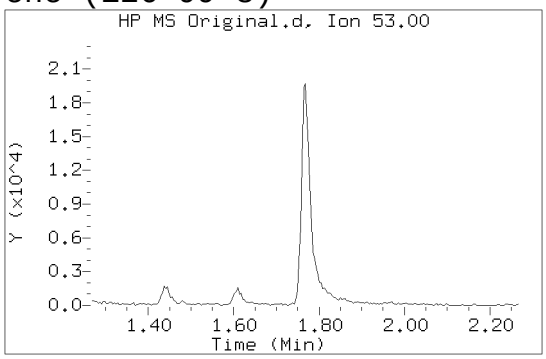
25-Jan-2023
11:05
ALSHS
Server



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03-Feb-2023
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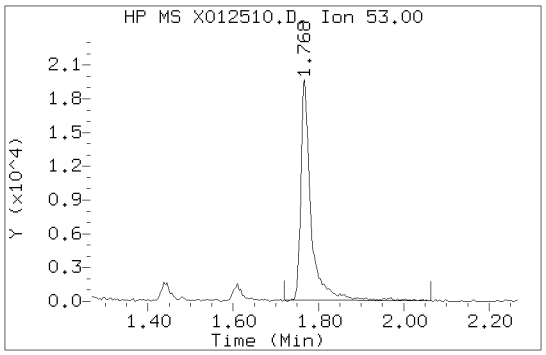

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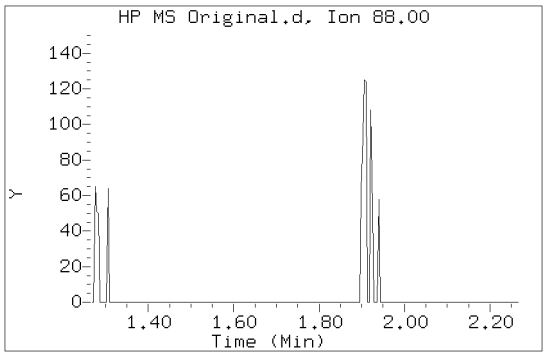

AFTER

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03-Feb-2023
10:53
ALSHS
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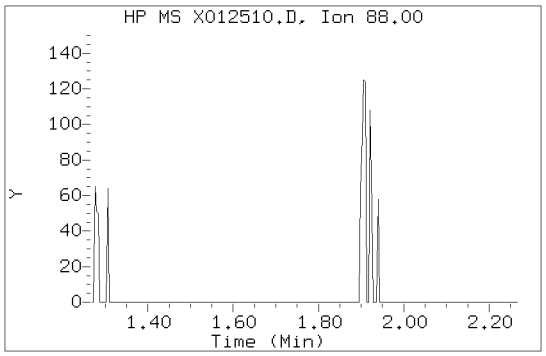


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012519.D Page 1
Report Date: 03-Feb-2023 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012519.D
Lab Smp Id: HS23011165-01 Client Smp ID: HS23011165-01
Inj Date : 25-JAN-2023 13:57
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-01;HS23011165-01;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\8260W.m
Meth Date : 03-Feb-2023 10:54 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.178	(1.000)	630421	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	274015	45.2514	45.25
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.071)	310110	48.5450	48.54
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	886056	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	794731	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1027633	52.3278	52.32
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	367509	50.0656	50.06
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	412210	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012519.D

Date : 25-JAN-2023 13:57

Client ID: HS23011165-01

Instrument: voa6.i

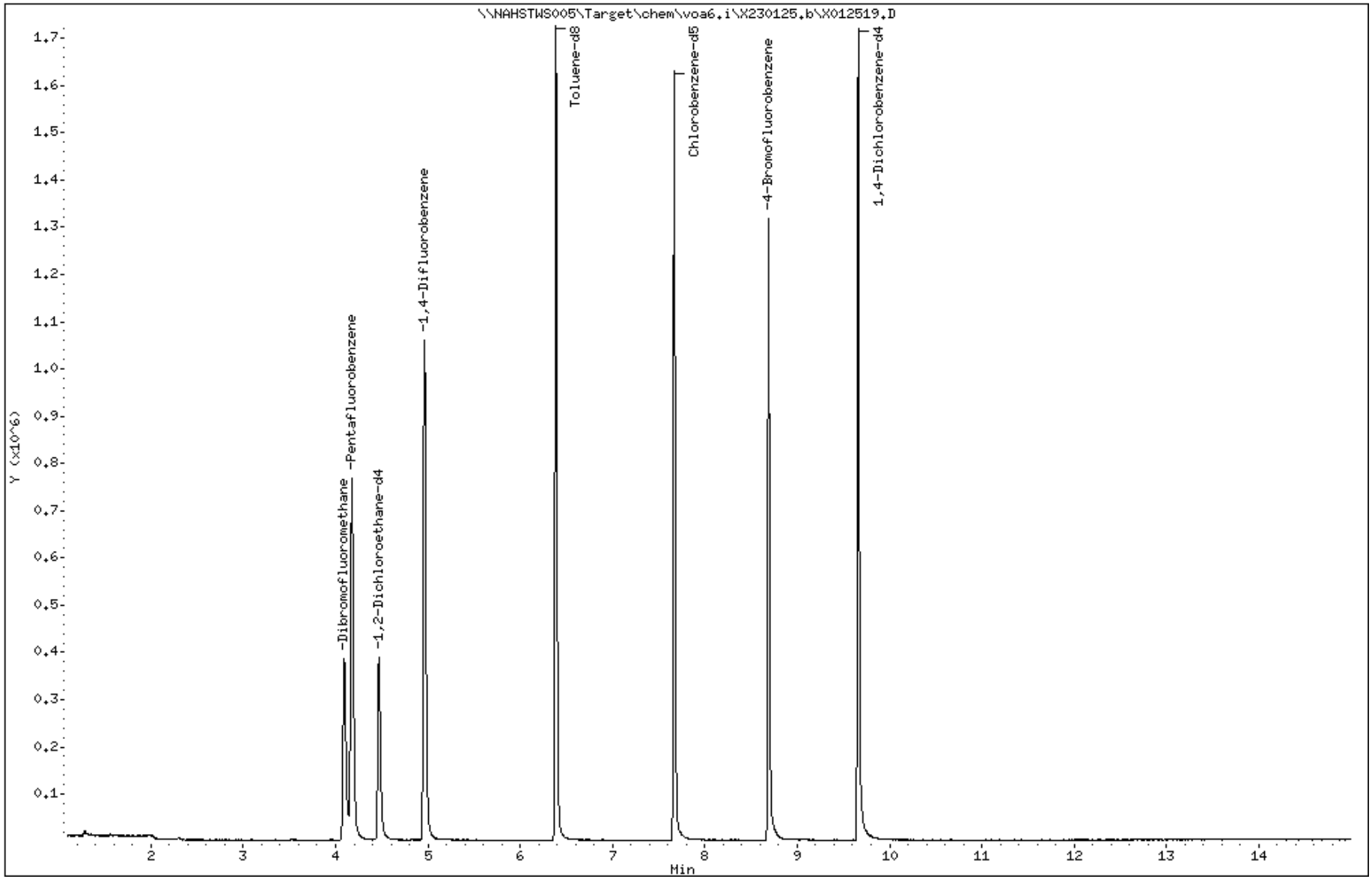
Sample Info: HS23011165-01;HS23011165-01;;;

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



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Inj Date : 25-JAN-2023 13:57
InstruID : voa6.i
LabSampID : HS23011165-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012522.D Page 1
Report Date: 03-Feb-2023 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012522.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 25-JAN-2023 15:00
Operator : FT Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\8260W.m
Meth Date : 03-Feb-2023 10:54 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 22 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	4.174	4.174	(1.000)	525517	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	156191	50.0000	42.55
3 Chloromethane	50	1.074	1.074	(0.257)	205461	50.0000	43.51
4 Propionitrile	54	3.645	3.645	(0.873)	270829	500.000	505.07
5 Vinyl Chloride	62	1.137	1.137	(0.273)	217588	50.0000	47.39
6 Bromomethane	94	1.336	1.336	(0.320)	158291	50.0000	45.74
7 Chloroethane	64	1.400	1.400	(0.335)	140405	50.0000	43.94
8 Trichlorofluoromethane	101	1.553	1.553	(0.372)	337654	50.0000	52.55
9 Acrolein	56	1.441	1.441	(0.345)	31844	100.000	88.92
10 Acetone	43	1.966	1.966	(0.471)	129779	100.000	88.00
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	188946	50.0000	47.37
12 Isobutyl Alcohol	43	4.669	4.669	(1.119)	651619	1000.00	1102.40
13 Acetonitrile	39	2.191	2.191	(0.525)	255778	500.000	534.77
14 Allyl Chloride	41	2.194	2.194	(0.526)	455184	50.0000	49.96
15 Iodomethane	142	2.022	2.022	(0.485)	477326	100.000	91.44
16 Acrylonitrile	53	2.528	2.528	(0.606)	144106	100.000	106.53
17 Methylene Chloride	84	2.299	2.299	(0.551)	245424	50.0000	44.86
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	632732	50.0000	48.46
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1027017	100.000	98.41
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	218048	50.0000	48.84

21 Vinyl Acetate	43	2.993	2.993 (0.717)	1168425	100.000	101.95
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	371416	50.0000	47.41

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012522.D Page 2
Report Date: 03-Feb-2023 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	82584	50.0000	46.21(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	156320	100.000	99.94
	25 Methacrylonitrile	41	3.814	3.814	(0.914)	191622	50.0000	51.49(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.839)	331850	50.0000	49.89
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.844)	249841	50.0000	45.99
	28 Chloroform	83	3.900	3.900	(0.934)	427491	50.0000	48.68
	29 Bromochloromethane	128	3.788	3.788	(0.907)	133341	50.0000	44.83
$	30 Dibromofluoromethane	113	4.091	4.091	(0.980)	238645	50.0000	47.28
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	379778	50.0000	54.51
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	323614	50.0000	58.17
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	339716	50.0000	52.91
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	321188	50.0000	54.06
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.071)	277434	50.0000	52.07
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	783584	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	948708	50.0000	50.70
	38 Trichloroethene	130	5.201	5.201	(1.048)	281442	50.0000	53.02
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	345955	50.0000	49.26
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	197004	50.0000	54.97
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	222087	100.000	111.16
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	239880	50.0000	48.19
	43 2-Nitropropane	43	5.966	5.966	(1.429)	70843	50.0000	53.38
	44 Dibromomethane	93	5.549	5.549	(1.119)	161557	50.0000	47.75
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	426745	100.000	104.90
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	413082	50.0000	50.08
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	761044	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	908604	50.0000	48.31
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	200079	50.0000	54.22
	50 Toluene	91	6.445	6.445	(0.841)	1071178	50.0000	50.92
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	357102	50.0000	52.17
	52 2-Hexanone	43	7.083	7.083	(0.924)	296476	100.000	107.12
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	201667	50.0000	47.78
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	404206	50.0000	48.66
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	298385	50.0000	48.98
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	241757	50.0000	55.54
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	265533	50.0000	50.32
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	235733	50.0000	62.25
	59 Chlorobenzene	112	7.694	7.694	(1.003)	733713	50.0000	49.17
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	280573	50.0000	50.53
	61 Ethylbenzene	106	7.799	7.799	(1.017)	379869	50.0000	54.04
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	969089	100.000	106.96
	63 o-Xylene	106	8.241	8.241	(1.075)	459925	50.0000	51.43
	64 Styrene	104	8.256	8.256	(1.077)	796355	50.0000	53.13
	66 Bromoform	173	8.410	8.410	(1.097)	209153	50.0000	49.56
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1206352	50.0000	59.04
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	326084	50.0000	46.10
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	358449	50.0000	50.99
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	443732	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	360102	50.0000	72.93
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	88679	50.0000	53.97
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1417870	50.0000	57.68
	74 Bromobenzene	156	8.803	8.803	(0.911)	354733	50.0000	48.72
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1037753	50.0000	57.15

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	854846	50.0000	53.00
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1005978	50.0000	54.71

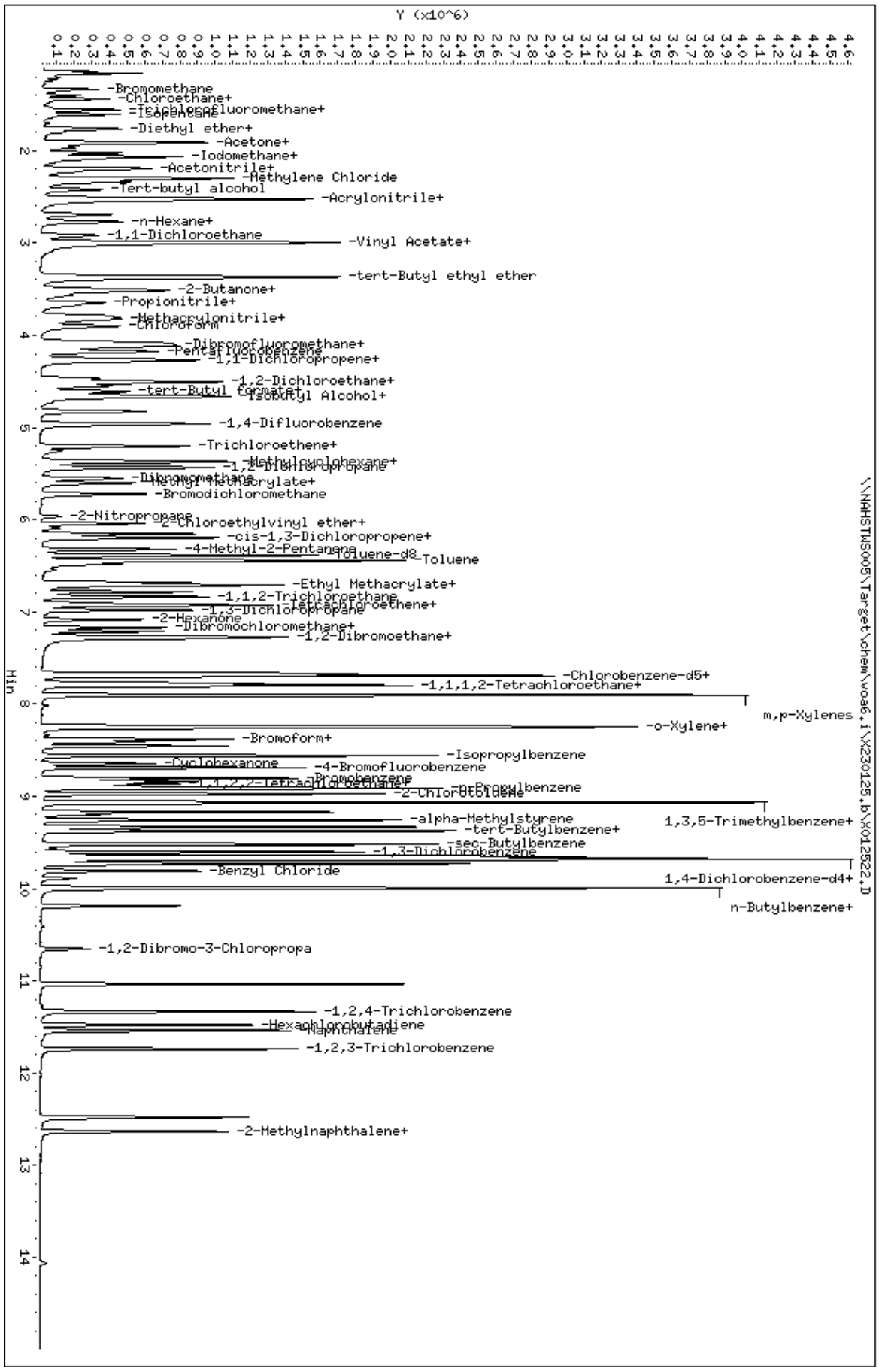
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	876537	50.0000	58.97
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1046266	50.0000	54.76
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1237087	50.0000	62.55
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1095465	50.0000	61.81
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	630434	50.0000	52.17
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	658929	50.0000	49.97
86	Benzyl Chloride	91	9.808	9.808	(1.279)	524192	50.0000	44.33
87	n-Butylbenzene	91	9.992	9.992	(1.034)	966372	50.0000	56.35
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	625563	50.0000	50.26
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	57255	50.0000	50.63
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	442748	50.0000	56.37
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	200047	50.0000	57.37
92	Naphthalene	128	11.540	11.540	(1.194)	969360	50.0000	54.24
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	403182	50.0000	53.60
146	Methyl acetate	43	2.224	2.224	(0.533)	122147	50.0000	51.65
138	Freon TF	101	1.910	1.910	(0.458)	200241	50.0000	51.90
141	Cyclohexane	56	4.118	4.118	(0.987)	312817	50.0000	58.82
142	Tetrahydrofuran	42	3.836	3.836	(0.919)	62570	100.000	95.64
147	Methylcyclohexane	55	5.377	5.377	(1.084)	578316	50.0000	60.29
135	1,4-Dioxane	88	5.598	5.598	(1.341)	52032	1000.00	1083.14
132	n-Butanol	56	5.253	5.253	(1.259)	68180	1000.00	1013.18
131	Methyl Acrylate	55	3.679	3.679	(0.881)	228607	50.0000	64.07
133	Ethyl Acrylate	55	5.377	5.377	(1.288)	578316	50.0000	55.93
136	n-Hexane	57	2.768	2.768	(0.663)	231122	50.0000	61.08
139	Diethyl ether	59	1.752	1.752	(0.420)	150266	50.0000	42.79
148	Tert-butyl alcohol	59	2.423	2.423	(0.581)	400450	1000.00	1100.48
149	Isopropyl alcohol	45	2.089	2.089	(0.501)	215815	1000.00	1135.63
156	Diisopropyl ether	45	2.997	2.997	(0.718)	678230	50.0000	49.75
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	440976	50.0000	51.22
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1107096	50.0000	51.81
167	Ethanol	45	1.696	1.696	(0.406)	36519	1000.00	1066.95
172	tert-Butyl formate	59	4.612	4.612	(1.105)	313235	100.000	112.32
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	374018	1000.00	1038.71
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	741947	50.0000	48.97
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.808)	712689	50.0000	49.19
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	313235	1000.00	1109.82
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	803207	1000.00	1083.00
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	440976	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	166071	50.0000	46.04
152	Amyl alcohol	42	6.903	6.903	(0.900)	81207	1000.00	1079.06
158	Dichlorofluoromethane	67	1.523	1.523	(0.365)	30377	50.0000	44.64
159	Propylene oxide	43	1.752	1.752	(0.420)	31347	100.000	94.85
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	84936	1000.00	1128.82
162	Butyl acrylate	55	8.249	8.249	(1.076)	527701	50.0000	53.08
182	Epichlorohydrin	57	6.093	6.093	(1.228)	76000	200.000	216.36
M 94	1,2-Dichloroethylene (total)	96				467889	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	494264	50.0000	50.27
130	Ethyl Acetate	43	3.649	3.649	(0.874)	225131	50.0000	54.90
134	Cyclohexanone	55	8.642	8.642	(0.894)	204665	1000.00	1105.71
185	Isoprene	39	1.767	1.767	(0.423)	72615	50.0000	51.86
186	Isopentane	42	1.606	1.606	(0.385)	127688	50.0000	(a)
188	Isopropyl acetate	43	4.669	4.669	(0.941)	653036	50.0000	53.64

187 n-Amyl acetate	43	8.451	8.451 (1.102)	448604	50.0000	50.55
189 n-Butyl acetate	43	7.210	7.210 (0.940)	366571	50.0000	56.07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	231122	1000.00	1196.55
194 Acetaldehyde	44	1.209	1.209	(0.290)	69519	200.000	209.86
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	512676	50.0000	50.66
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	509010	50.0000	49.41
168 1-Propanol	59	2.993	2.993	(0.717)	78026	1000.00	908.52

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\voa6.i\X230125.b\X012522.D
Date : 25-JAN-2023 15:00
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230125.b\X012522.D
Inj Date : 25-JAN-2023 15:00
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

Reason Code:

BEFORE

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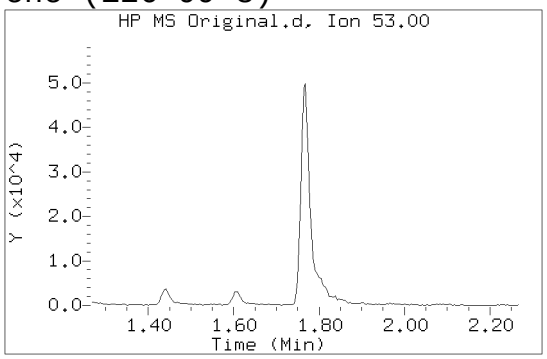
HEIGHT
0
25-Jan-2023
15:16
ALSHS
Server



AFTER

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HEIGHT
49606
03-Feb-2023
10:54
ALSHS
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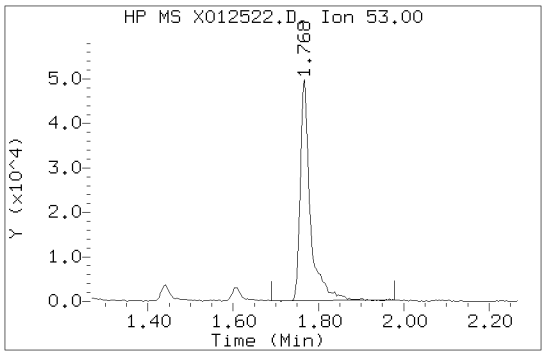

BEFORE

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25-Jan-2023
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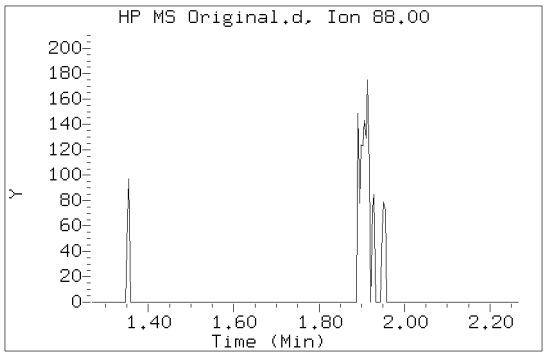
Server



AFTER

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HEIGHT
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03-Feb-2023
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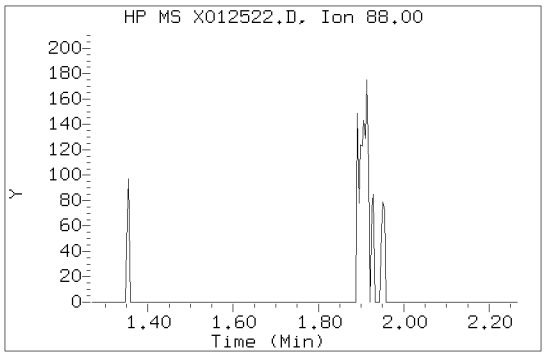


right solutions.
right partner.

Raw Data VOA6 426583

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\X230126.b\X012601.D Page 1
Report Date: 26-Jan-2023 09:22

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa6.i\X230126.b\X012601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-JAN-2023 08:03
Operator : FT Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230126.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham 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

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.687	8.889	(0.000)	95	187456			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	34488			15.00- 40.00	18.40
8.687	8.889	(0.000)	75	92000			30.00- 60.00	49.08
8.687	8.889	(0.000)	96	12978			5.00- 9.00	6.92
8.687	8.889	(0.000)	173	1297			0.00- 2.00	0.77
8.687	8.889	(0.000)	174	168896			50.00- 0.00	90.10
8.687	8.889	(0.000)	175	11458			5.00- 9.00	6.78
8.687	8.889	(0.000)	176	160704			95.00- 101.00	95.15
8.687	8.889	(0.000)	177	10583			5.00- 9.00	6.59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.40
75	30.00 - 60.00% of mass 95	49.08
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.69 (0.77)
174	Greater than 50.00% of mass 95	90.10
175	5.00 - 9.00% of mass 174	6.11 (6.78)
176	95.00 - 101.00% of mass 174	85.73 (95.15)
177	5.00 - 9.00% of mass 176	5.65 (6.59)

Data File: X012601.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1682	68.00	17920	98.80	60	141.80	252
37.00	8977	69.00	19952	103.00	191	142.90	1604
38.00	8846	70.00	2261	103.80	959	143.70	98
39.00	3561	71.00	291	105.10	431	144.80	135
39.90	1481	71.80	966	105.90	831	145.90	379
41.00	1496	73.00	8394	106.70	405	146.70	167
42.00	1623	74.00	31656	109.10	208	147.00	183
42.90	1103	75.00	92000	109.70	145	147.90	508
43.90	2092	76.00	7794	111.00	153	149.80	222
45.00	1902	77.00	1204	111.80	123	151.70	81
46.00	194	77.90	871	112.90	193	152.70	102
47.00	2126	78.90	6237	114.80	201	153.80	195
47.90	1203	79.90	1894	115.70	765	154.90	622
49.00	7889	80.90	6241	116.90	853	155.80	82
50.00	34488	81.90	1278	117.70	628	156.80	397
51.00	11247	82.80	389	118.80	786	158.70	318
52.00	433	84.10	58	119.70	61	160.90	419
52.90	417	84.90	408	122.90	76	170.00	59
54.10	129	86.00	239	123.80	161	171.70	89
55.00	2586	86.90	7514	126.80	202	172.90	1297
56.00	3719	87.90	6426	127.90	897	173.90	168896
57.00	5461	90.70	664	128.90	325	174.90	11458
58.00	486	91.00	534	129.90	894	175.90	160704
59.90	1834	92.00	5314	130.70	306	176.90	10583
61.00	8655	93.00	7443	134.50	122	177.80	276
62.00	9189	94.00	20576	135.10	171	186.20	102
63.00	6761	95.00	187456	136.70	373	206.90	94
64.00	853	96.00	12978	138.80	85		
65.10	74	96.90	357	139.60	132		
67.10	523	98.00	1151	140.80	1536		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012601.D

Date : 26-JAN-2023 08:03

Client ID: BFB

Instrument: voa6.i

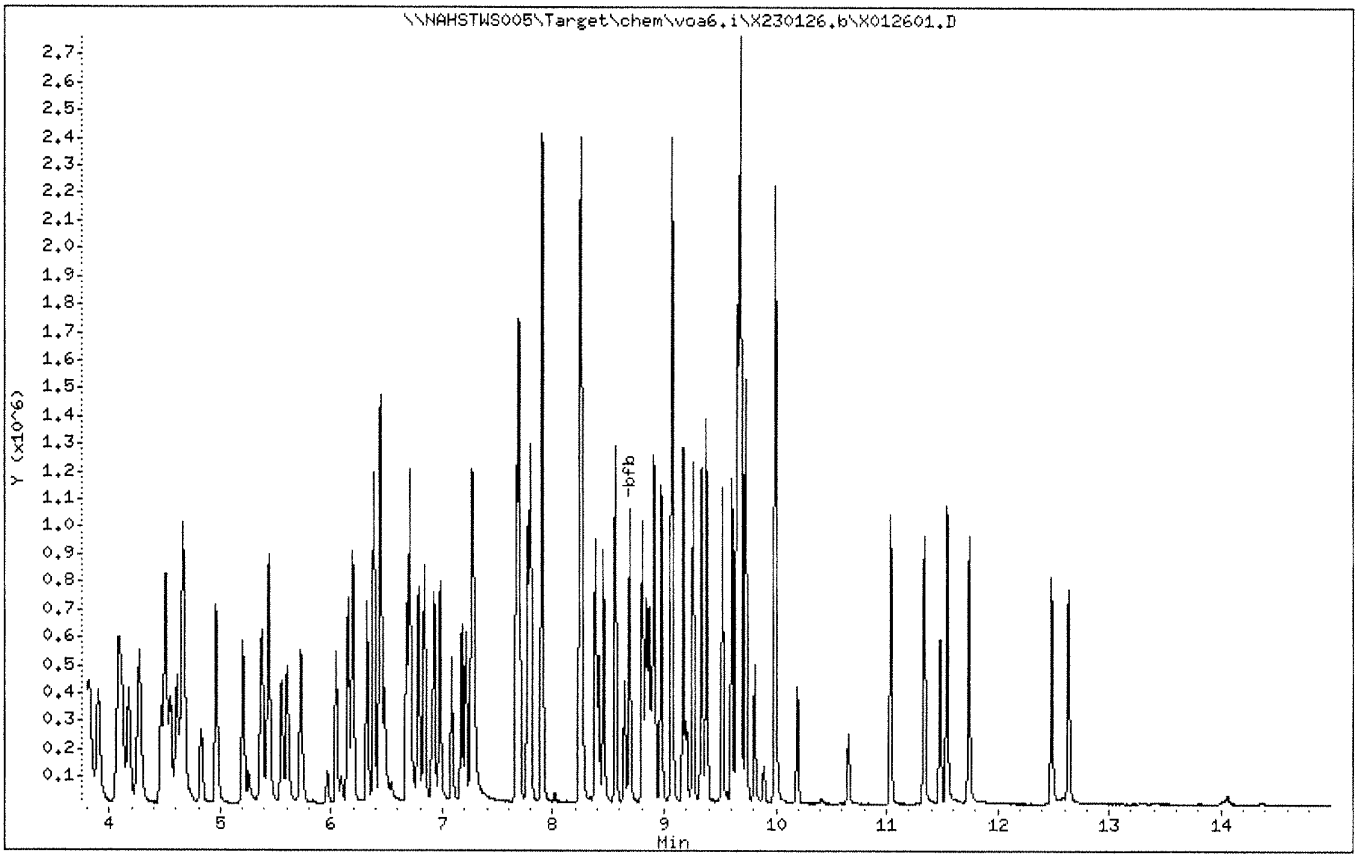
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012601.D

Date : 26-JAN-2023 08:03

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

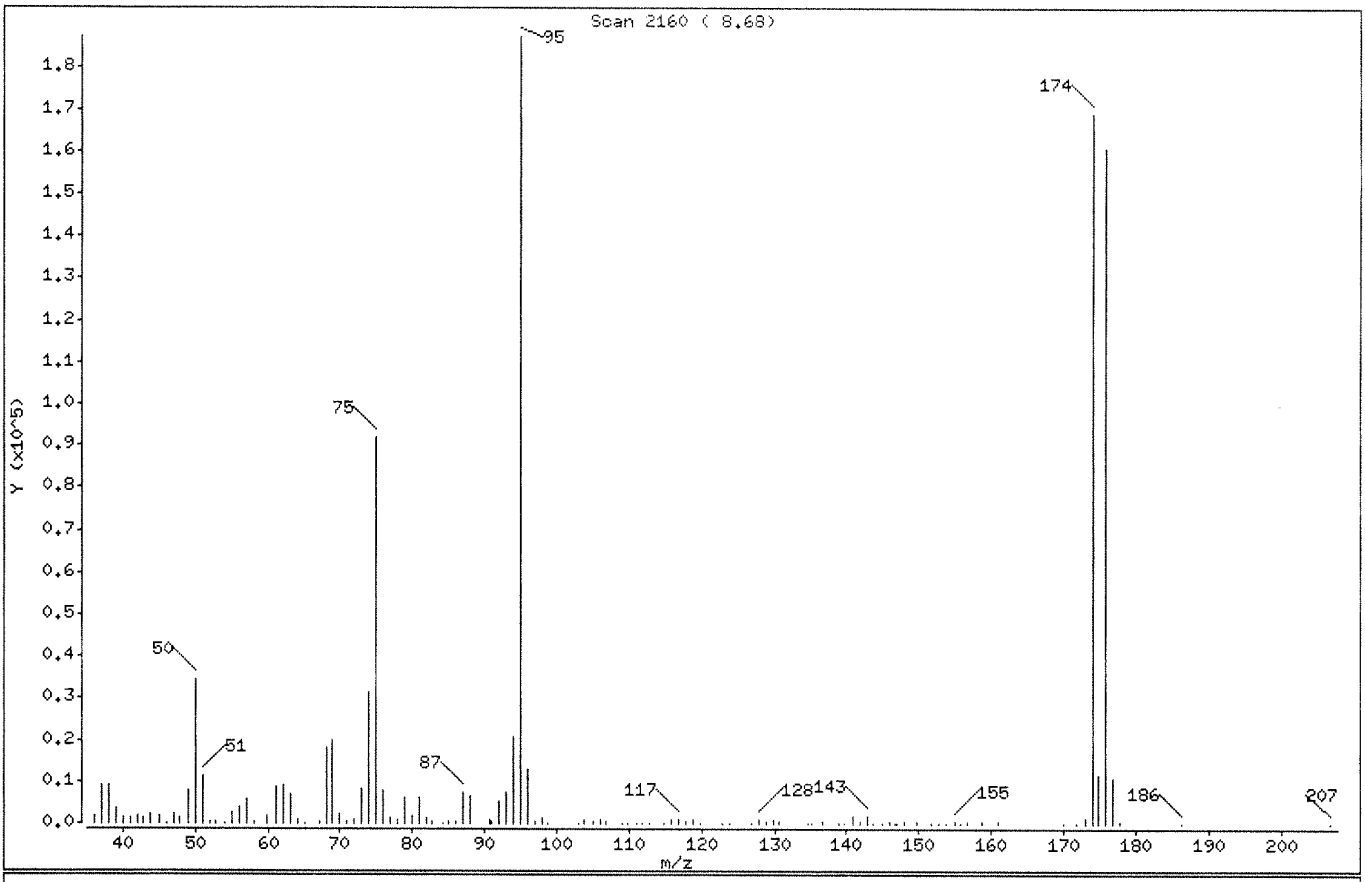
Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.40
75	30.00 - 60.00% of mass 95	49.08
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.69 (0.77)
174	Greater than 50.00% of mass 95	90.10
175	5.00 - 9.00% of mass 174	6.11 (6.78)
176	95.00 - 101.00% of mass 174	85.73 (95.15)
177	5.00 - 9.00% of mass 176	5.65 (6.59)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012601.D

Date : 26-JAN-2023 08:03

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25

Data File: X012601.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1682	68.00	17920	98.80	60	141.80	252
37.00	8977	69.00	19952	103.00	191	142.90	1604
38.00	8846	70.00	2261	103.80	959	143.70	98
39.00	3561	71.00	291	105.10	431	144.80	135
39.90	1481	71.80	966	105.90	831	145.90	379
41.00	1496	73.00	8394	106.70	405	146.70	167
42.00	1623	74.00	31656	109.10	208	147.00	183
42.90	1103	75.00	92000	109.70	145	147.90	508
43.90	2092	76.00	7794	111.00	153	149.80	222
45.00	1902	77.00	1204	111.80	123	151.70	81
46.00	194	77.90	871	112.90	193	152.70	102
47.00	2126	78.90	6237	114.80	201	153.80	195
47.90	1203	79.90	1894	115.70	765	154.90	622
49.00	7889	80.90	6241	116.90	853	155.80	82
50.00	34488	81.90	1278	117.70	628	156.80	397
51.00	11247	82.80	389	118.80	786	158.70	318
52.00	433	84.10	58	119.70	61	160.90	419
52.90	417	84.90	408	122.90	76	170.00	59
54.10	129	86.00	239	123.80	161	171.70	89
55.00	2586	86.90	7514	126.80	202	172.90	1297
56.00	3719	87.90	6426	127.90	897	173.90	168896
57.00	5461	90.70	664	128.90	325	174.90	11458
58.00	486	91.00	534	129.90	894	175.90	160704
59.90	1834	92.00	5314	130.70	306	176.90	10583
61.00	8655	93.00	7443	134.50	122	177.80	276
62.00	9189	94.00	20576	135.10	171	186.20	102
63.00	6761	95.00	187456	136.70	373	206.90	94
64.00	853	96.00	12978	138.80	85		
65.10	74	96.90	357	139.60	132		
67.10	523	98.00	1151	140.80	1536		

Data File : \\nahstws005\Target\chem\voa6.i\X230126.b\X012601.D
Inj Date : 26-JAN-2023 08:03
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012602.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012602.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 26-JAN-2023 08:24
Operator : FT Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	555954	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	164224	50.0000	42.29
3 Chloromethane	50	1.074	1.074	(0.257)	218627	50.0000	43.75
4 Propionitrile	54	3.645	3.645	(0.873)	275700	500.000	486.00
5 Vinyl Chloride	62	1.141	1.141	(0.273)	227677	50.0000	46.88
6 Bromomethane	94	1.336	1.336	(0.320)	153467	50.0000	42.06
7 Chloroethane	64	1.400	1.400	(0.335)	142913	50.0000	42.27
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	344761	50.0000	50.72
9 Acrolein	56	1.441	1.441	(0.345)	33596	100.000	88.68
10 Acetone	43	1.966	1.966	(0.471)	125873	100.000	80.68
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	199744	50.0000	47.33
12 Isobutyl Alcohol	43	4.669	4.669	(1.119)	670475	1000.00	1072.20
13 Acetonitrile	39	2.194	2.194	(0.526)	264577	500.000	522.89
14 Allyl Chloride	41	2.194	2.194	(0.526)	475830	50.0000	49.37
15 Iodomethane	142	2.022	2.022	(0.485)	550411	100.000	99.04
16 Acrylonitrile	53	2.528	2.528	(0.606)	146528	100.000	102.39
17 Methylene Chloride	84	2.299	2.299	(0.551)	257169	50.0000	44.43
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	663705	50.0000	48.05
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1115374	100.000	101.03
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	235262	50.0000	49.81

21 Vinyl Acetate	43	2.993	2.993 (0.717)	1278544	100.000	105.45
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	405735	50.0000	48.95

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012602.D Page 2
Report Date: 13-Feb-2023 13:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	88085	50.0000	46.59(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	156785	100.000	94.91
	25 Methacrylonitrile	41	3.814	3.814	(0.914)	189879	50.0000	48.23(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.840)	391858	50.0000	55.68
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.844)	268715	50.0000	46.75
	28 Chloroform	83	3.900	3.900	(0.934)	456688	50.0000	49.16
	29 Bromochloromethane	128	3.788	3.788	(0.907)	141374	50.0000	44.92
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	248083	50.0000	46.46
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	406537	50.0000	55.16
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	347386	50.0000	59.78
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	359396	50.0000	53.59
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	343104	50.0000	55.29
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	285067	50.0000	50.59
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	818504	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	993022	50.0000	50.80
	38 Trichloroethene	130	5.205	5.205	(1.049)	294141	50.0000	53.05
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	364348	50.0000	49.67
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	198125	50.0000	52.26
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	230649	100.000	110.52
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	255973	50.0000	49.23
	43 2-Nitropropane	43	5.966	5.966	(1.429)	74463	50.0000	53.03
	44 Dibromomethane	93	5.549	5.549	(1.119)	170238	50.0000	48.17
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	436948	100.000	104.38
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	447159	50.0000	51.90
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	783145	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	927909	50.0000	47.94
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	191590	50.0000	49.70
	50 Toluene	91	6.445	6.445	(0.841)	1113718	50.0000	51.45
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	385680	50.0000	53.94
	52 2-Hexanone	43	7.083	7.083	(0.924)	303433	100.000	106.54
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	207478	50.0000	47.77
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	422434	50.0000	49.42
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	314395	50.0000	50.16
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	252568	50.0000	56.39
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	275881	50.0000	50.81
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	224575	50.0000	56.77(M)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	764275	50.0000	49.77
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	290991	50.0000	50.92
	61 Ethylbenzene	106	7.799	7.799	(1.017)	397631	50.0000	54.97
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1002125	100.000	107.48
	63 o-Xylene	106	8.237	8.237	(1.074)	480901	50.0000	52.26
	64 Styrene	104	8.256	8.256	(1.077)	828039	50.0000	53.68
	66 Bromoform	173	8.410	8.410	(1.097)	216458	50.0000	49.85
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1246133	50.0000	59.27
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	340339	50.0000	47.45
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	368818	50.0000	50.98
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	449944	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	257754	50.0000	51.48(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	90484	50.0000	53.52
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1474554	50.0000	59.16(M)
	74 Bromobenzene	156	8.803	8.803	(0.911)	369305	50.0000	50.02
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1092182	50.0000	59.32

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	903344	50.0000	55.23
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1059538	50.0000	56.82

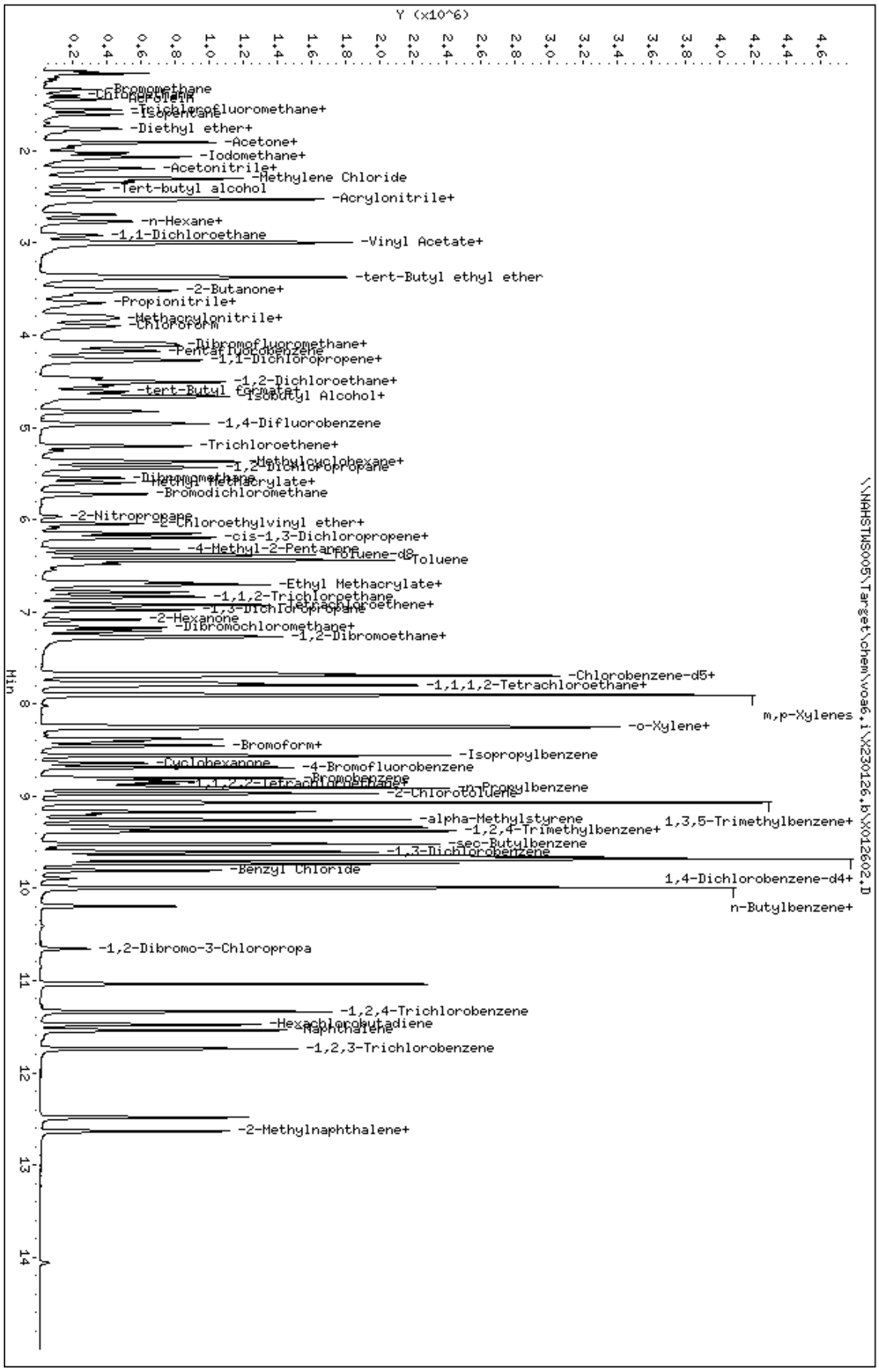
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	893391	50.0000	59.27(M)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1099169	50.0000	56.73
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1291675	50.0000	64.41
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1154254	50.0000	64.23
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	658780	50.0000	53.76
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	688189	50.0000	51.47
86	Benzyl Chloride	91	9.808	9.808	(1.279)	618205	50.0000	50.41
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1038339	50.0000	59.60
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	647591	50.0000	51.31
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	57369	50.0000	50.03
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	467390	50.0000	58.69
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	209123	50.0000	59.13(M)
92	Naphthalene	128	11.540	11.540	(1.194)	986824	50.0000	54.46
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	416768	50.0000	54.64
146	Methyl acetate	43	2.224	2.224	(0.533)	131655	50.0000	52.62
138	Freon TF	101	1.910	1.910	(0.458)	214734	50.0000	52.61
141	Cyclohexane	56	4.118	4.118	(0.987)	331857	50.0000	58.98
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	62665	100.000	90.37
147	Methylcyclohexane	55	5.373	5.373	(1.083)	597268	50.0000	59.61
135	1,4-Dioxane	88	5.594	5.594	(1.340)	53946	1000.00	1061.51
132	n-Butanol	56	5.253	5.253	(1.259)	71753	1000.00	1008.36
131	Methyl Acrylate	55	3.683	3.683	(0.882)	201582	50.0000	53.40(M)
133	Ethyl Acrylate	55	5.373	5.373	(1.287)	597268	50.0000	54.65
136	n-Hexane	57	2.768	2.768	(0.663)	267568	50.0000	66.84
139	Diethyl ether	59	1.752	1.752	(0.420)	154063	50.0000	41.47
148	Tert-butyl alcohol	59	2.423	2.423	(0.581)	421357	1000.00	1094.54
149	Isopropyl alcohol	45	2.086	2.086	(0.500)	225972	1000.00	1123.98
156	Diisopropyl ether	45	2.997	2.997	(0.718)	694223	50.0000	48.13
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	455589	50.0000	52.18
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1117228	50.0000	51.56
167	Ethanol	45	1.696	1.696	(0.406)	35145	1000.00	970.29
172	tert-Butyl formate	59	4.612	4.612	(1.105)	321861	100.000	109.10
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	382221	1000.00	1031.53
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	755473	50.0000	47.14
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.808)	740045	50.0000	48.29
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	321861	1000.00	1077.95
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	796148	1000.00	1027.68
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	455589	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	179486	50.0000	47.03
152	Amyl alcohol	42	6.903	6.903	(0.900)	80529	1000.00	1039.85
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	29872	50.0000	41.49
159	Propylene oxide	43	1.752	1.752	(0.420)	31374	100.000	89.74
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	90116	1000.00	1163.87
162	Butyl acrylate	55	8.249	8.249	(1.076)	537730	50.0000	52.56
182	Epichlorohydrin	57	6.093	6.093	(1.228)	76849	200.000	209.52
M 94	1,2-Dichloroethylene (total)	96				503977	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	517972	50.0000	51.95
130	Ethyl Acetate	43	3.649	3.649	(0.874)	228625	50.0000	52.70
134	Cyclohexanone	55	8.642	8.642	(0.894)	203588	1000.00	1084.70
185	Isoprene	39	1.767	1.767	(0.423)	75671	50.0000	51.09
186	Isopentane	42	1.606	1.606	(0.385)	133112	50.0000	(a)
188	Isopropyl acetate	43	4.669	4.669	(0.941)	671104	50.0000	52.77

187 n-Amyl acetate	43	8.451	8.451 (1.102)	462765	50.0000	50.67
189 n-Butyl acetate	43	7.210	7.210 (0.940)	381904	50.0000	56.76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	267568	1000.00	1309.39
194 Acetaldehyde	44	1.209	1.209	(0.290)	63061	200.000	176.62
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	506408	50.0000	48.63
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	519570	50.0000	49.01
168 1-Propanol	59	2.997	2.997	(0.718)	81101	1000.00	892.62

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: CCV
Sample Info: CCV,CCV,2,,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012602.D
Inj Date : 26-JAN-2023 08:24
InstruID : voa6.i
LabSampID : CCV

1-Chlorohexane (544-10-5)

Reason Code:

BEFORE

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HEIGHT
178933
13-Feb-2023
13:31
linh
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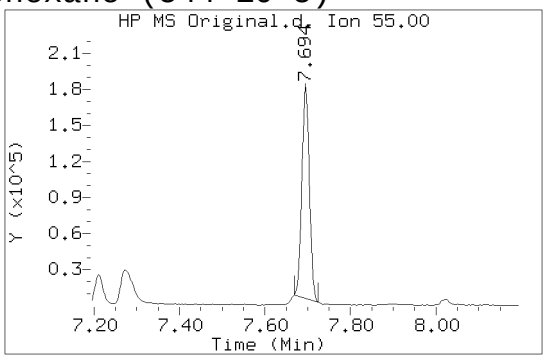

AFTER

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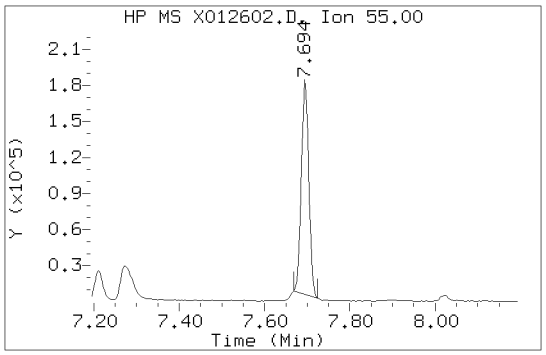

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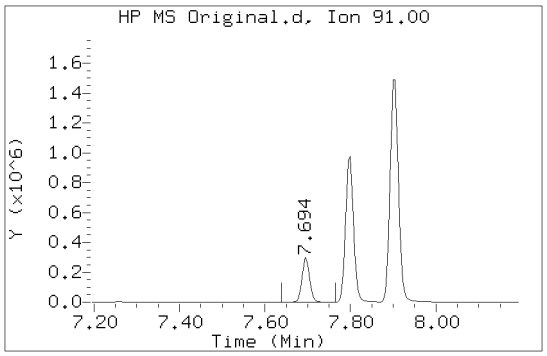

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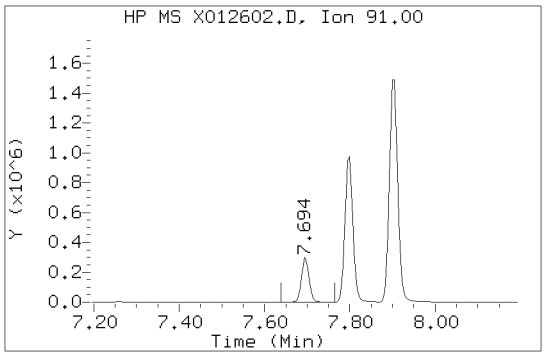

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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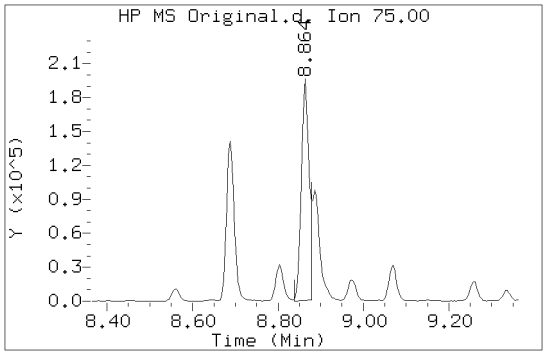

AFTER

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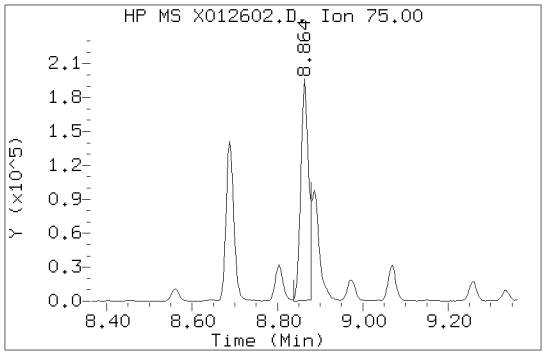

BEFORE

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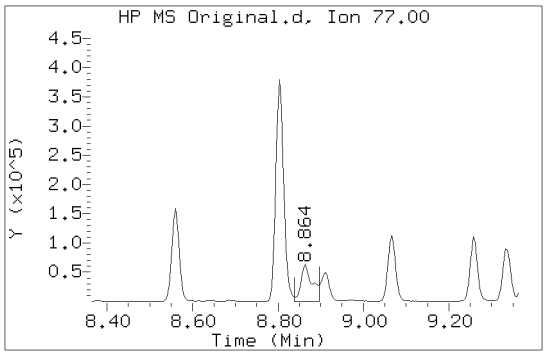

AFTER

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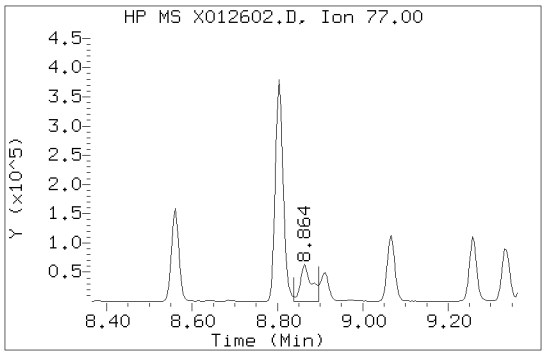

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InstruID : voa6.i
LabSampID : CCV

n-Propylbenzene (106-65-1)

Reason Code:

BEFORE

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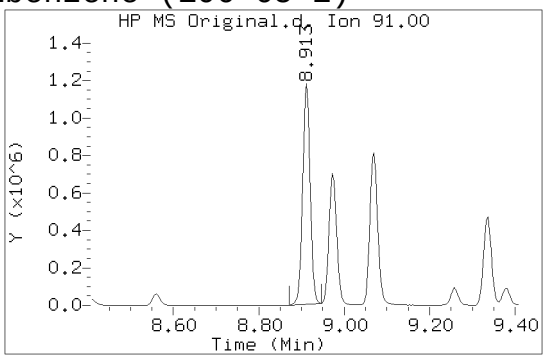

AFTER

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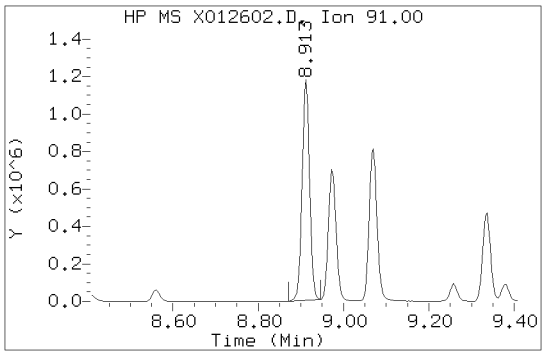

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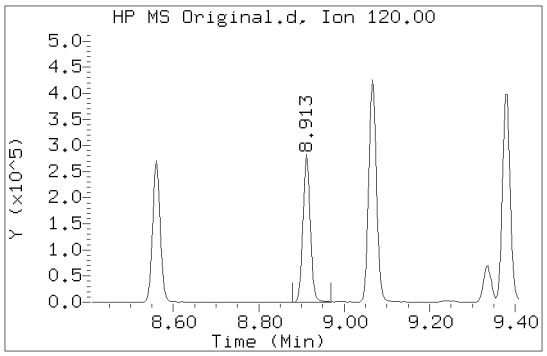

AFTER

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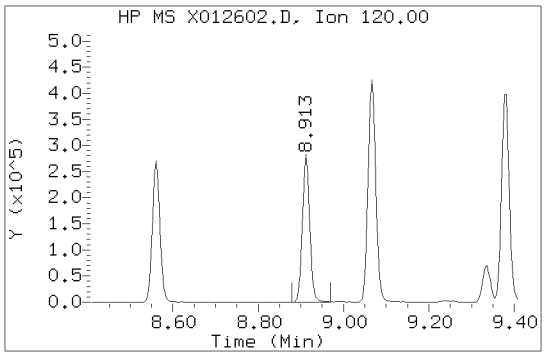

tert-Butylbenzene (98-06-6)

Reason Code:

BEFORE

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13-Feb-2023
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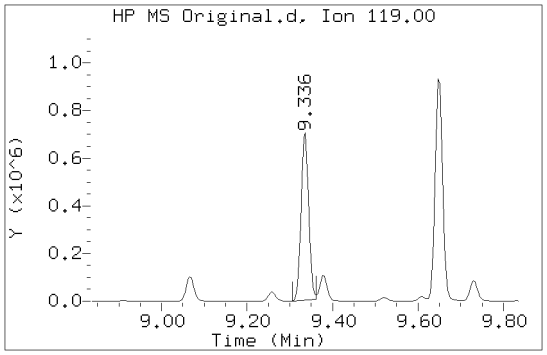

AFTER

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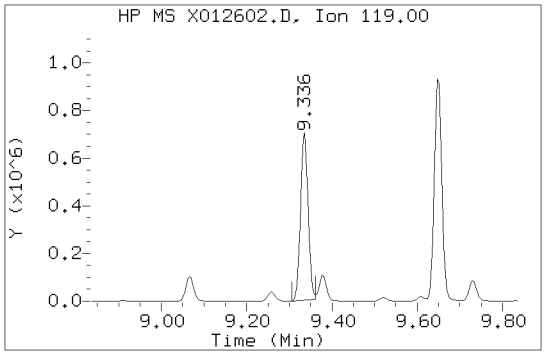

BEFORE

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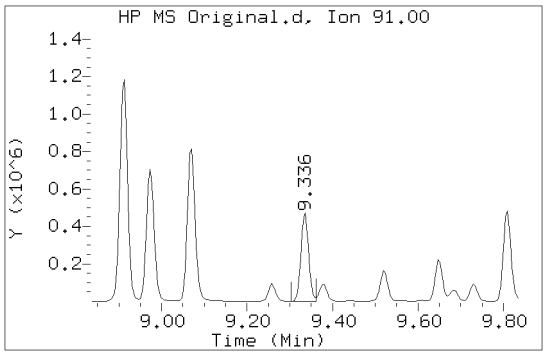

AFTER

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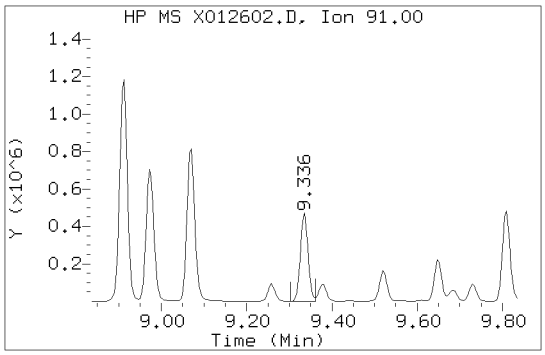

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Inj Date : 26-JAN-2023 08:24
InstruID : voa6.i
LabSampID : CCV

tert-Butylbenzene (98-06-6)

Reason Code:

BEFORE

MASS
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HEIGHT
174080
13-Feb-2023
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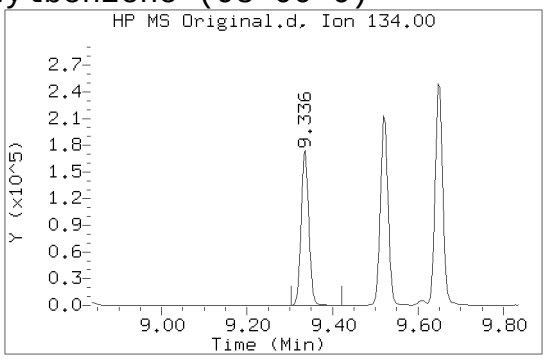

AFTER

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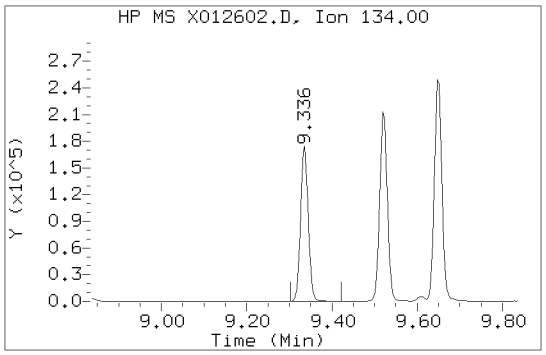

Hexachlorobutadiene (87-68-3)

Reason Code:

BEFORE

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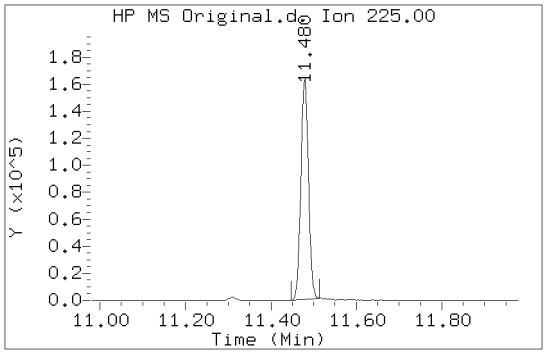

AFTER

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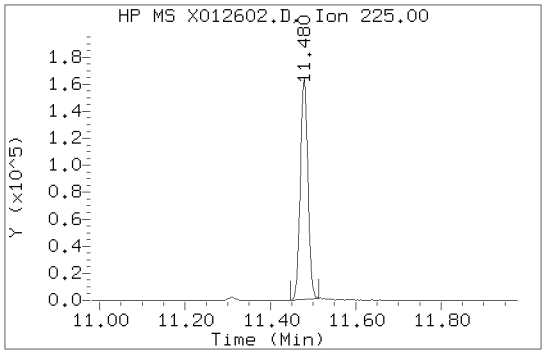

BEFORE

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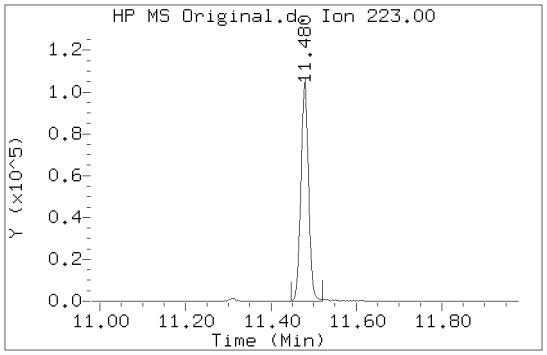

AFTER

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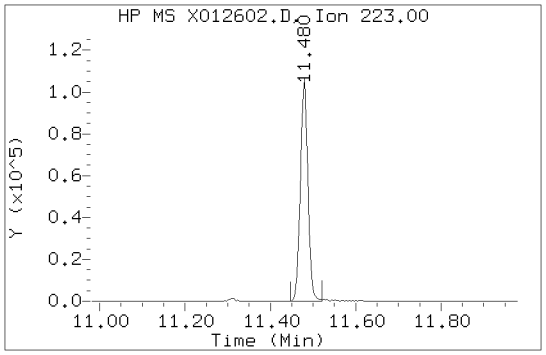

BEFORE

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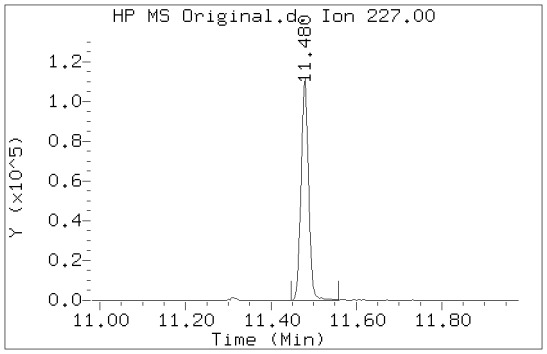

AFTER

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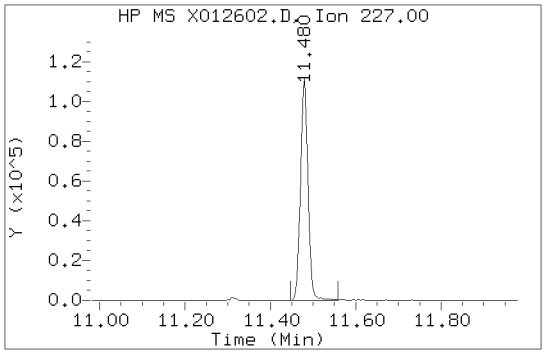

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LabSampID : CCV

Chloroprene (126-99-8)

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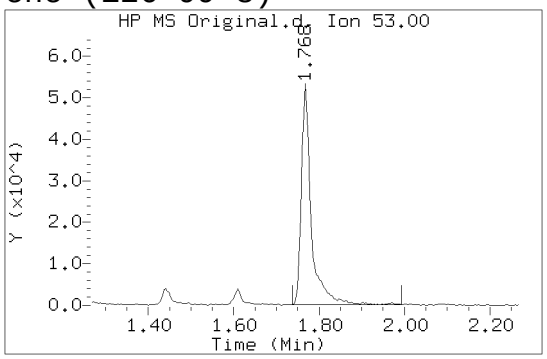

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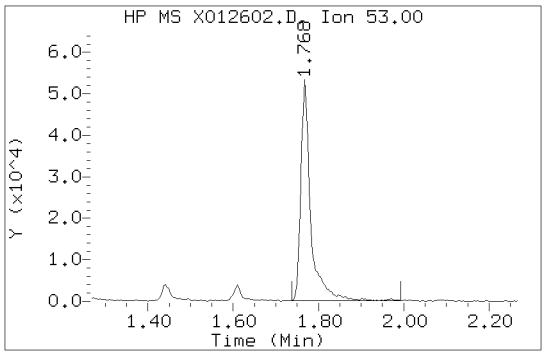

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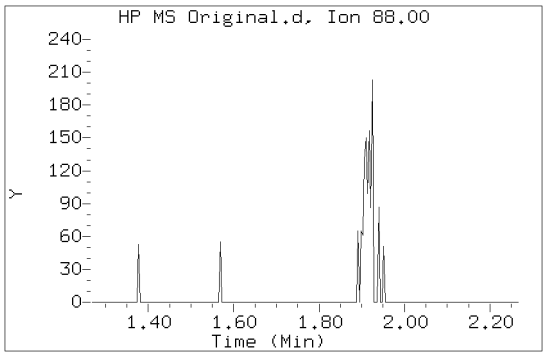

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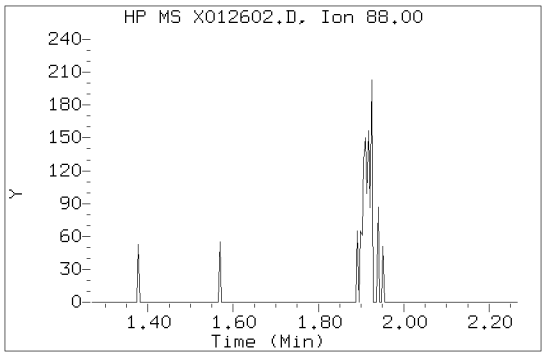

Methyl Acrylate (96-33-3)

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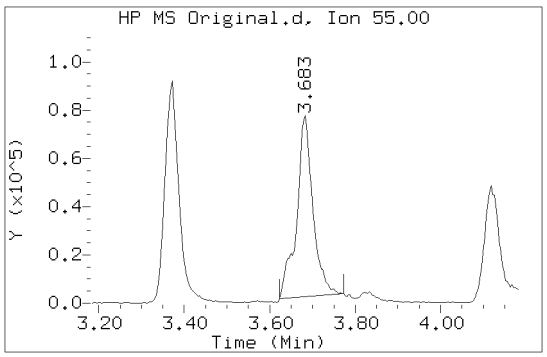

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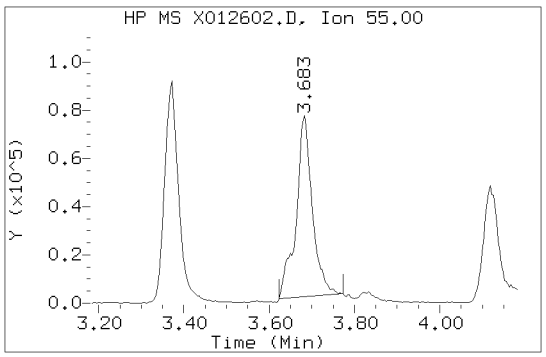

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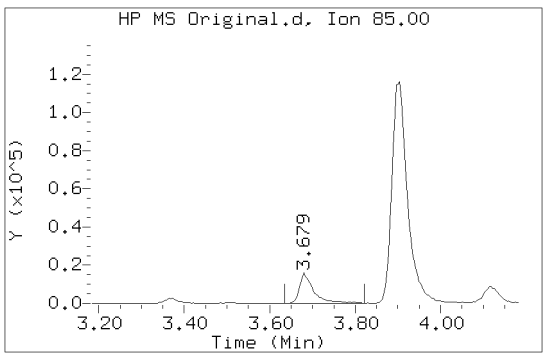

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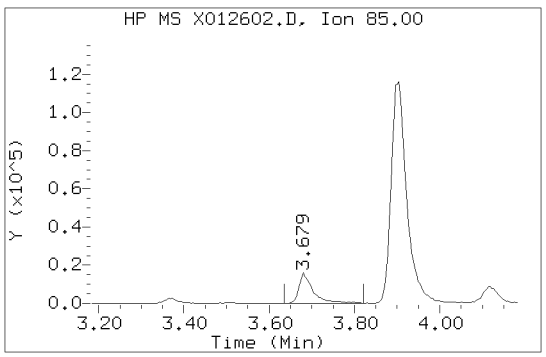

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Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012604.D
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Operator : FT Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
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Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.174	(1.000)	537171	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	67465	18.2088	18.20
3 Chloromethane	50	1.074	1.074	(0.257)	91444	20.1946	20.19
4 Propionitrile	54	3.649	3.645	(0.873)	117507	214.387	214.38(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	91796	19.5623	19.56
6 Bromomethane	94	1.336	1.336	(0.320)	62784	18.8297	18.82
7 Chloroethane	64	1.400	1.400	(0.335)	58413	17.8845	17.88
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	140315	21.3678	21.36
9 Acrolein	56	1.441	1.441	(0.345)	13282	37.9557	37.95
10 Acetone	43	1.970	1.966	(0.472)	56006	37.1361	37.13
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	82777	20.3040	20.30
12 Isobutyl Alcohol	43	4.672	4.669	(1.118)	277930	459.997	459.99(a)
13 Acetonitrile	39	2.194	2.194	(0.525)	110927	226.894	226.89(a)
14 Allyl Chloride	41	2.194	2.194	(0.525)	199827	21.4607	21.46(a)
15 Iodomethane	142	2.022	2.022	(0.484)	207451	41.5981	41.59
16 Acrylonitrile	53	2.532	2.528	(0.606)	60448	43.7168	43.71
17 Methylene Chloride	84	2.299	2.299	(0.550)	110346	19.7323	19.73
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	273814	20.5189	20.51
19 Carbon Disulfide	76	2.067	2.063	(0.495)	454935	42.6503	42.65
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	97758	21.4251	21.42

21 Vinyl Acetate	43	2.993	2.993 (0.716)	526670	44.9597	44.95
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	166052	20.7364	20.73

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	34522	18.9011	18.90(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	61825	40.5259	40.52
	25 Methacrylonitrile	41	3.818	3.814	(0.914)	78974	20.7628	20.76(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	154607	22.7396	22.73
	27 cis-1,2-Dichloroethene	96	3.525	3.521	(0.844)	111254	20.0356	20.03
	28 Chloroform	83	3.900	3.900	(0.934)	189668	21.1325	21.13
	29 Bromochloromethane	128	3.795	3.788	(0.908)	58017	19.0827	19.08
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	250606	48.5821	48.58
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	165820	23.2860	23.28
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	136342	23.9118	23.91
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	147582	22.4276	22.42
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	142896	23.4687	23.46
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	290932	53.4214	53.42
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	803137	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	406035	21.1711	21.17
	38 Trichloroethene	130	5.205	5.205	(1.048)	119064	21.8880	21.88
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	147364	20.4739	20.47
	40 Methyl Methacrylate	41	5.606	5.602	(1.342)	83981	22.9286	22.92(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	93040	45.4365	45.43
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	103673	20.3215	20.32
	43 2-Nitropropane	43	5.969	5.966	(1.429)	28621	21.0994	21.09
	44 Dibromomethane	93	5.549	5.549	(1.118)	70894	20.4447	20.44
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	177452	43.8707	43.87
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	177591	21.0091	21.00
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	756761	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	915254	48.9438	48.94
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	81639	21.5861	21.58(a)
	50 Toluene	91	6.445	6.445	(0.841)	455814	21.7915	21.79
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	150692	21.4813	21.48
	52 2-Hexanone	43	7.086	7.083	(0.924)	124313	45.1717	45.17
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	87433	20.8356	20.83
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	170458	20.6372	20.63
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	125228	20.6767	20.67
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	102993	23.7978	23.79
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	111979	21.3429	21.34
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	98267	25.3181	25.31(M)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	310640	20.9377	20.93
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	115115	20.8491	20.84
	61 Ethylbenzene	106	7.799	7.799	(1.017)	158612	22.6955	22.69
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	402861	44.7164	44.71
	63 o-Xylene	106	8.241	8.237	(1.075)	191755	21.5648	21.56
	64 Styrene	104	8.260	8.256	(1.077)	328286	22.0265	22.02
	66 Bromoform	173	8.410	8.410	(1.097)	84640	20.1724	20.17
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	502381	24.7295	24.72
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	138112	19.9731	19.97
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	359078	51.3697	51.36
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	433848	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	105681	21.8916	21.89(M)
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	34671	21.2229	21.22(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	595429	24.7772	24.77
	74 Bromobenzene	156	8.803	8.803	(0.911)	146536	20.5869	20.58
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	430228	24.2345	24.23

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	363965	23.0801	23.08
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	418511	23.2801	23.28

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Report Date: 13-Feb-2023 13:32

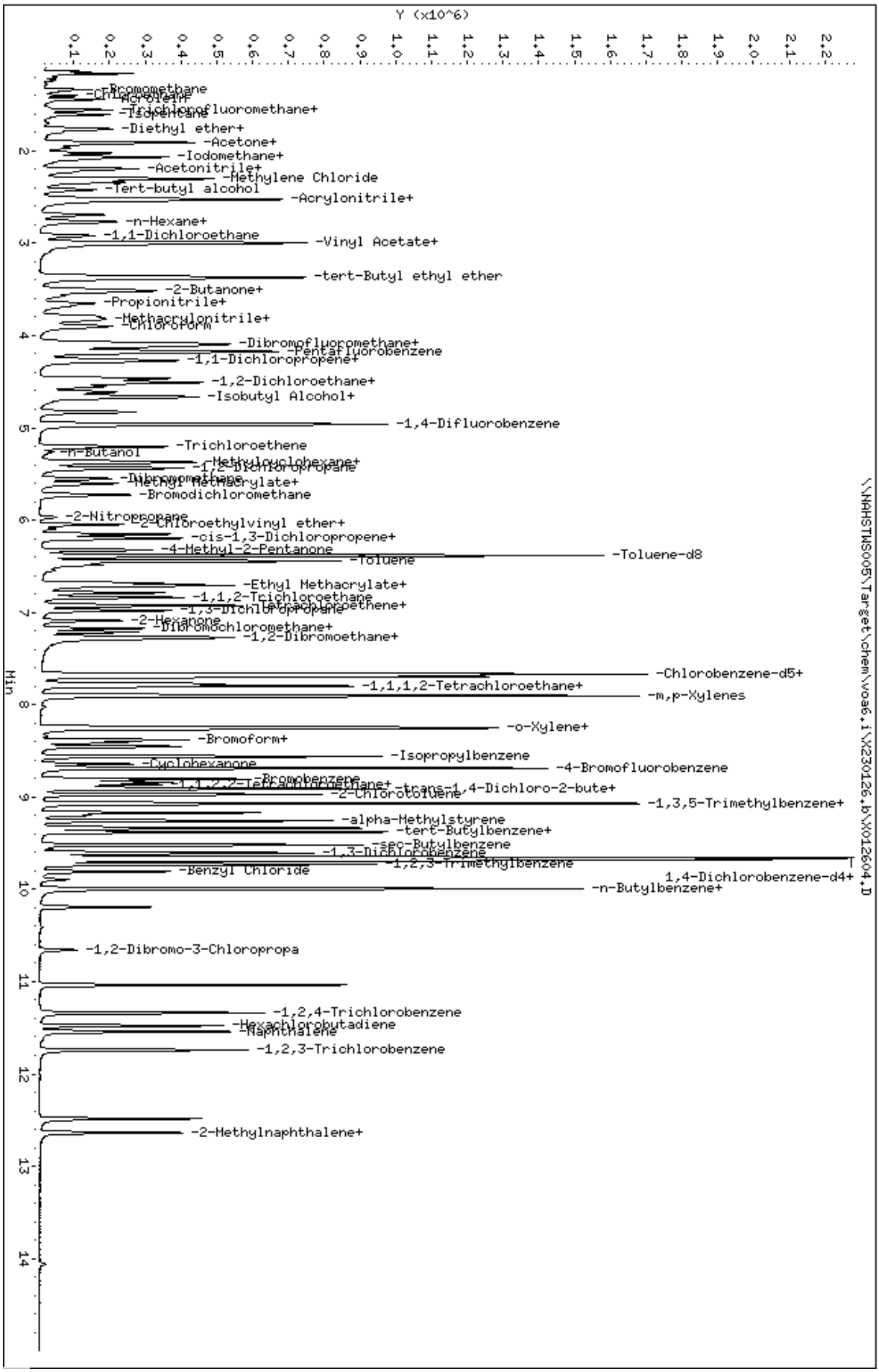
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	362035	24.9134	24.91
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	431299	23.0895	23.08
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	511869	26.4737	26.47
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	447621	25.8352	25.83
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	258813	21.9070	21.90
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	276140	21.4196	21.41
86	Benzyl Chloride	91	9.808	9.808	(1.279)	213193	19.7258	19.72
87	n-Butylbenzene	91	9.995	9.992	(1.035)	396124	24.6561	24.65
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	255821	21.0253	21.02
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	22469	20.3790	20.37
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	182969	23.8283	23.82
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	84634	24.9930	24.99
92	Naphthalene	128	11.544	11.540	(1.195)	390628	22.3589	22.35
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	168270	22.8810	22.88
146	Methyl acetate	43	2.228	2.224	(0.533)	52579	21.7525	21.75
138	Freon TF	101	1.913	1.910	(0.458)	88014	22.3206	22.32
141	Cyclohexane	56	4.121	4.118	(0.987)	144061	27.1961	27.19
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	28817	41.3524	41.35
147	Methylcyclohexane	55	5.377	5.373	(1.083)	237801	24.1887	24.18
135	1,4-Dioxane	88	5.598	5.594	(1.340)	21554	438.955	438.95
132	n-Butanol	56	5.261	5.253	(1.259)	23784	383.421	383.42(a)
131	Methyl Acrylate	55	3.686	3.683	(0.882)	83161	22.8031	22.80
133	Ethyl Acrylate	55	5.377	5.373	(1.287)	237801	23.5970	23.59
136	n-Hexane	57	2.768	2.768	(0.663)	103629	26.7935	26.79
139	Diethyl ether	59	1.752	1.752	(0.419)	63502	17.6922	17.69
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	177925	478.351	478.35
149	Isopropyl alcohol	45	2.089	2.086	(0.500)	94858	488.323	488.32
156	Diisopropyl ether	45	2.997	2.997	(0.717)	287689	20.6455	20.64
160	2-Methylnaphthalene	142	12.638	12.634	(1.308)	178617	21.2204	21.22
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	441842	21.1489	21.14
167	Ethanol	45	1.700	1.696	(0.407)	15636	444.999	444.99
172	tert-Butyl formate	59	4.612	4.612	(1.104)	131551	46.1519	46.15
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	152954	427.184	427.18
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	322150	20.8051	20.80
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	304068	20.5356	20.53
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	131551	455.985	455.98
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	306723	403.500	403.49
180	1-Methylnaphthalene	142	12.638	12.634	(1.308)	178617		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	73321	19.8880	19.88
152	Amyl alcohol	42	6.906	6.903	(0.901)	26035	347.906	347.90
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	12453	17.9041	17.90
159	Propylene oxide	43	1.752	1.752	(0.419)	13448	39.8110	39.81
161	3-Methyl-1-butanol	55	6.910	6.903	(0.901)	31653	423.059	423.05
162	Butyl acrylate	55	8.252	8.249	(1.076)	207368	20.9772	20.97
182	Epichlorohydrin	57	6.097	6.093	(1.228)	30107	85.1584	85.15
M 94	1,2-Dichloroethylene (total)	96				209012	41.4607	41.46
M 95	Xylenes (total)	106				594616	66.2811	66.28
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	201842	20.9970	20.99
130	Ethyl Acetate	43	3.653	3.649	(0.874)	94150	22.4614	22.46
134	Cyclohexanone	55	8.642	8.642	(0.894)	83808	463.091	463.09(a)
185	Isoprene	39	1.767	1.767	(0.423)	31011	21.6703	21.67
186	Isopentane	42	1.610	1.606	(0.385)	53078		(a)

188 Isopropyl acetate	43	4.672	4.669 (0.941)	278118	22.2890	22.28
187 n-Amyl acetate	43	8.451	8.451 (1.102)	185422	21.0126	21.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	154531	23.7713	23.77
150 Allyl alcohol	57	2.768	2.768	(0.663)	103629	524.862	524.86
194 Acetaldehyde	44	1.209	1.209	(0.289)	68580	201.723	201.72
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	206149	20.4888	20.48
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	203138	19.8336	19.83
168 1-Propanol	59	2.997	2.997	(0.717)	32114	365.817	365.81

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

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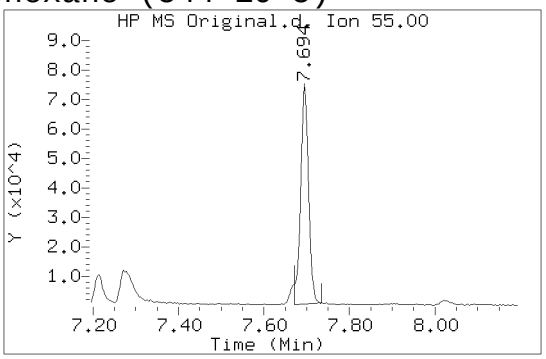
Inj Date : 26-JAN-2023 09:27
InstruID : voa6.i
LabSampID : VLCSW-230126

1-Chlorohexane (544-10-5)

Reason Code:

BEFORE

MASS
55
AREA
98267
HEIGHT
74728
13-Feb-2023
13:31
linh
pham



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13-Feb-2023
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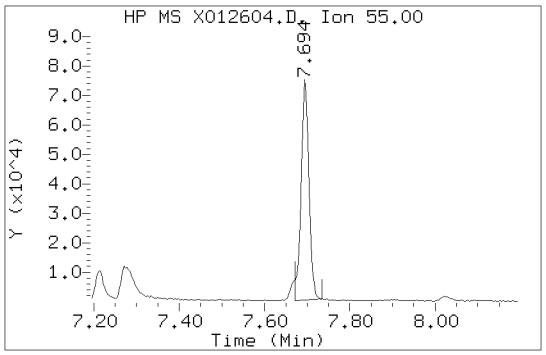

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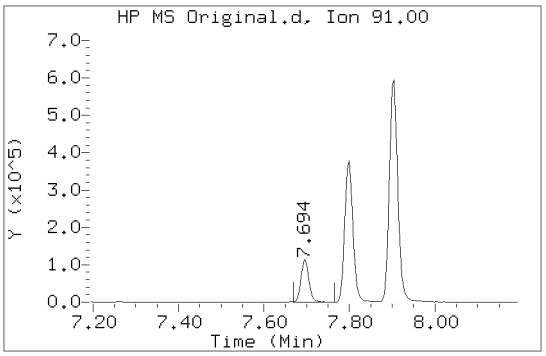

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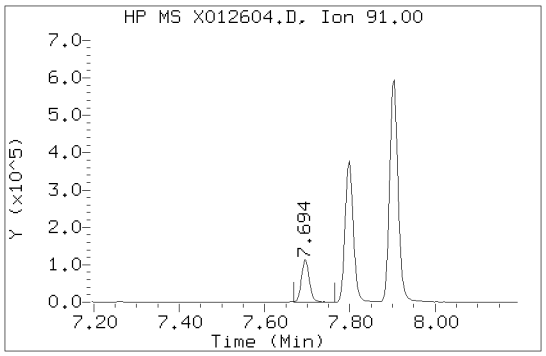

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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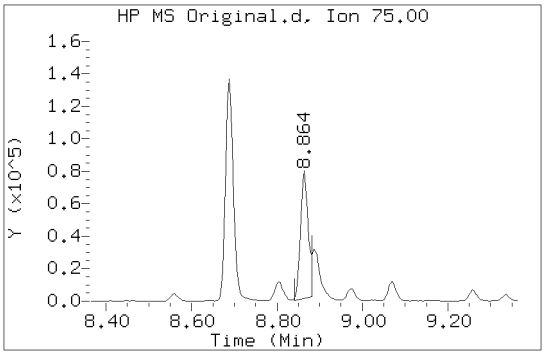

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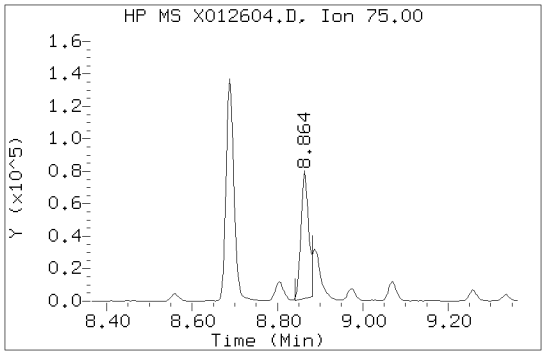

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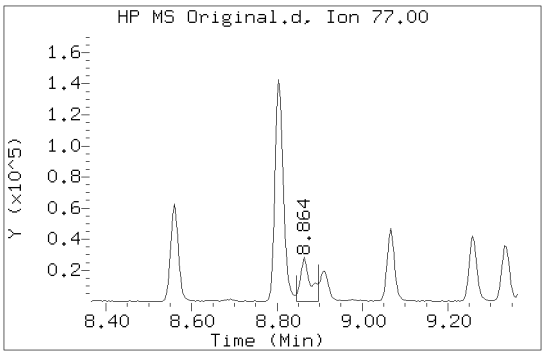

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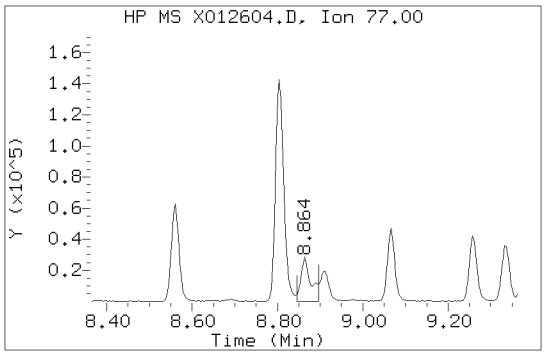

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Inj Date : 26-JAN-2023 09:27
InstruID : voa6.i
LabSampID : VLCSW-230126

Chloroprene (126-99-8)

Reason Code:

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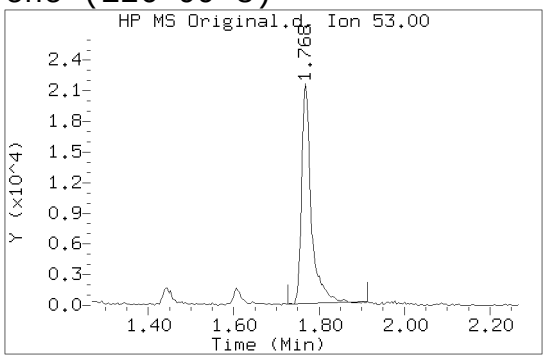

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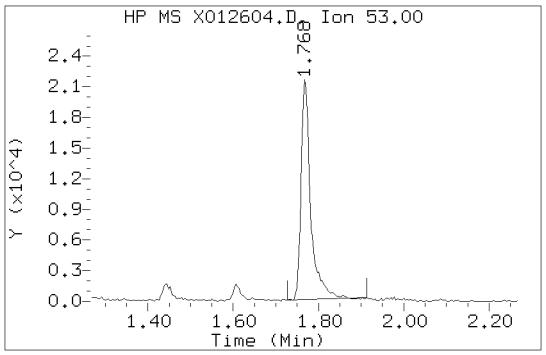

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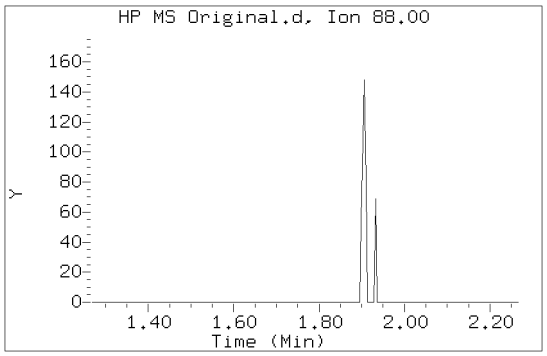

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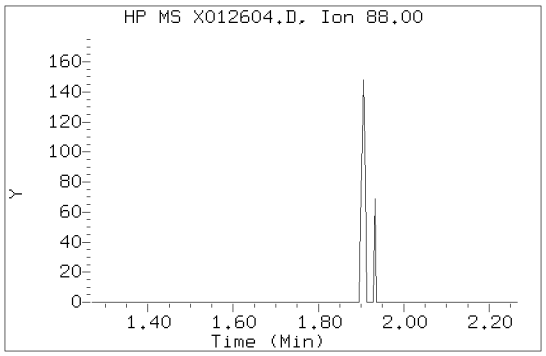


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012606.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012606.D
Lab Smp Id: VBLKW-230126 Client Smp ID: VBLKW-230126
Inj Date : 26-JAN-2023 10:09
Operator : FT Inst ID: voa6.i
Smp Info : VBLKW-230126;VBLKW-230126;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	656022	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	287740	45.6651	45.66
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	331077	49.7976	49.79
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	934312	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	832965	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1070734	52.0199	52.01
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	382478	49.7136	49.71
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	425726	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012606.D

Date : 26-JAN-2023 10:09

Client ID: VBLKW-230126

Instrument: voa6.i

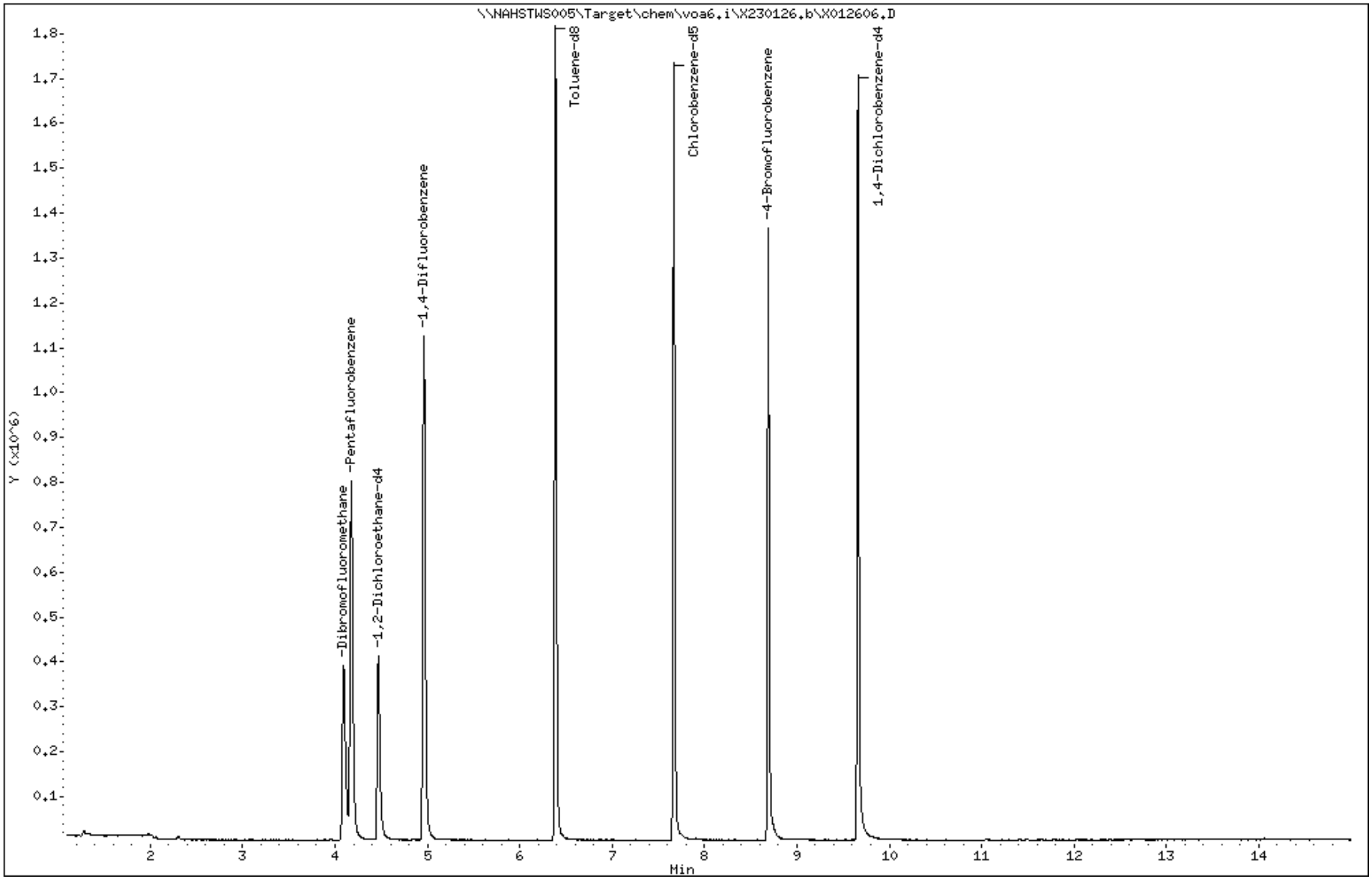
Sample Info: VBLKW-230126;VBLKW-230126;3;;BLANK

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



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InstruID : voa6.i
LabSampID : VBLKW-230126

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012608.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012608.D
Lab Smp Id: HS23011136-04MS Client Smp ID: HS23011136-04MS
Inj Date : 26-JAN-2023 10:51
Operator : FT Inst ID: voa6.i
Smp Info : HS23011136-04MS;HS23011136-04MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.174	4.174	(1.000)	677446	50.0000	
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	63045	13.5942	13.59
3	Chloromethane	50	1.074	1.074	(0.257)	85178	15.4939	15.49
4	Propionitrile	54	3.645	3.645	(0.873)	109202	157.980	157.98(a)
5	Vinyl Chloride	62	1.141	1.141	(0.274)	117902	19.9230	19.92
6	Bromomethane	94	1.336	1.336	(0.320)	63012	15.3452	15.34
7	Chloroethane	64	1.400	1.400	(0.335)	62323	15.1305	15.13
8	Trichlorofluoromethane	101	1.554	1.557	(0.372)	147068	17.7588	17.75
9	Acrolein	56	1.441	1.441	(0.345)	15745	35.8469	35.84
10	Acetone	43	1.966	1.966	(0.471)	62933	33.0848	33.08
11	1,1-Dichloroethene	96	1.910	1.910	(0.458)	87151	16.9505	16.95
12	Isobutyl Alcohol	43	4.672	4.669	(1.119)	254830	334.432	334.43(a)
13	Acetonitrile	39	2.195	2.194	(0.526)	115205	186.851	186.85(a)
14	Allyl Chloride	41	2.195	2.194	(0.526)	203103	17.2959	17.29(a)
15	Iodomethane	142	2.022	2.022	(0.485)	201500	32.9075	32.90
16	Acrylonitrile	53	2.532	2.528	(0.607)	60400	34.6371	34.63
17	Methylene Chloride	84	2.300	2.299	(0.551)	100902	14.3073	14.30
18	Methyl tert-butyl ether	73	2.528	2.528	(0.606)	277206	16.4717	16.47
19	Carbon Disulfide	76	2.063	2.063	(0.494)	489655	36.4000	36.39
20	trans-1,2-Dichloroethene	96	2.528	2.524	(0.606)	98412	17.1024	17.10

21 Vinyl Acetate	43	2.993	2.993 (0.717)	499516	33.8121	33.81
22 1,1-Dichloroethane	63	2.914	2.918 (0.698)	163240	16.1642	16.16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	39081	16.9666	16.96(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	75661	39.4155	39.41
	25 Methacrylonitrile	41	3.822	3.814	(0.916)	74558	15.5430	15.54(a)
	26 2,2-Dichloropropane	77	3.507	3.506	(0.840)	157962	18.4223	18.42
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	119326	17.0396	17.03
	28 Chloroform	83	3.900	3.900	(0.934)	184478	16.2982	16.29
	29 Bromochloromethane	128	3.792	3.788	(0.908)	55969	14.5972	14.59
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	296519	45.5698	45.56
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.978)	166322	18.5202	18.52
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	139520	21.0209	21.02
	33 1,2-Dichloroethane	62	4.553	4.552	(0.918)	147007	19.1920	19.19
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	143257	20.2124	20.21
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	341523	49.7445	49.74
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	934883	50.0000	
	37 Benzene	78	4.508	4.507	(0.909)	399837	17.9100	17.91
	38 Trichloroethene	130	5.205	5.205	(1.049)	127035	20.0623	20.06
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	140118	16.7239	16.72
	40 Methyl Methacrylate	41	5.606	5.602	(1.343)	79218	17.1497	17.14(a)
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	98470	16.5816	16.58
	43 2-Nitropropane	43	5.966	5.966	(1.429)	27117	15.8513	15.85
	44 Dibromomethane	93	5.553	5.549	(1.119)	66732	16.5325	16.53
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	168707	37.2812	37.28
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	166412	16.9124	16.91
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	846633	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	1099361	52.5485	52.54
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	80659	18.3215	18.32(a)
	50 Toluene	91	6.442	6.445	(0.840)	2132364	91.1221	91.12
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	140722	17.2332	17.23
	52 2-Hexanone	43	7.083	7.083	(0.924)	298301	96.8876	96.88
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	79455	16.9245	16.92
	54 1,3-Dichloropropane	76	6.982	6.981	(0.911)	161084	17.4321	17.43
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	117068	17.2775	17.27
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	103619	21.4009	21.40
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	103412	17.6178	17.61
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	107654	23.8279	23.82
	59 Chlorobenzene	112	7.694	7.694	(1.003)	299616	18.0510	18.05
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	108575	17.5772	17.57
	61 Ethylbenzene	106	7.799	7.799	(1.017)	157409	20.1324	20.13
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	393234	39.0145	39.01
	63 o-Xylene	106	8.241	8.237	(1.075)	187245	18.8223	18.82
	64 Styrene	104	8.260	8.256	(1.077)	313845	18.8222	18.82
	66 Bromoform	173	8.410	8.410	(1.097)	77136	16.4325	16.43
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	495716	21.8111	21.81
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	131829	17.6736	17.67
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	404900	51.7756	51.77
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	467991	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	139021	26.6969	26.69
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	33537	18.3496	18.34(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	585931	22.6031	22.60
	74 Bromobenzene	156	8.803	8.803	(0.911)	141337	18.4078	18.40
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	419052	21.8828	21.88
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	348303	20.4756	20.47

77 4-Chlorotoluene	91	9.070	9.069 (0.939)	403687	20.8173	20.81
78 tert-Butylbenzene	119	9.336	9.336 (0.966)	357855	22.8291	22.82

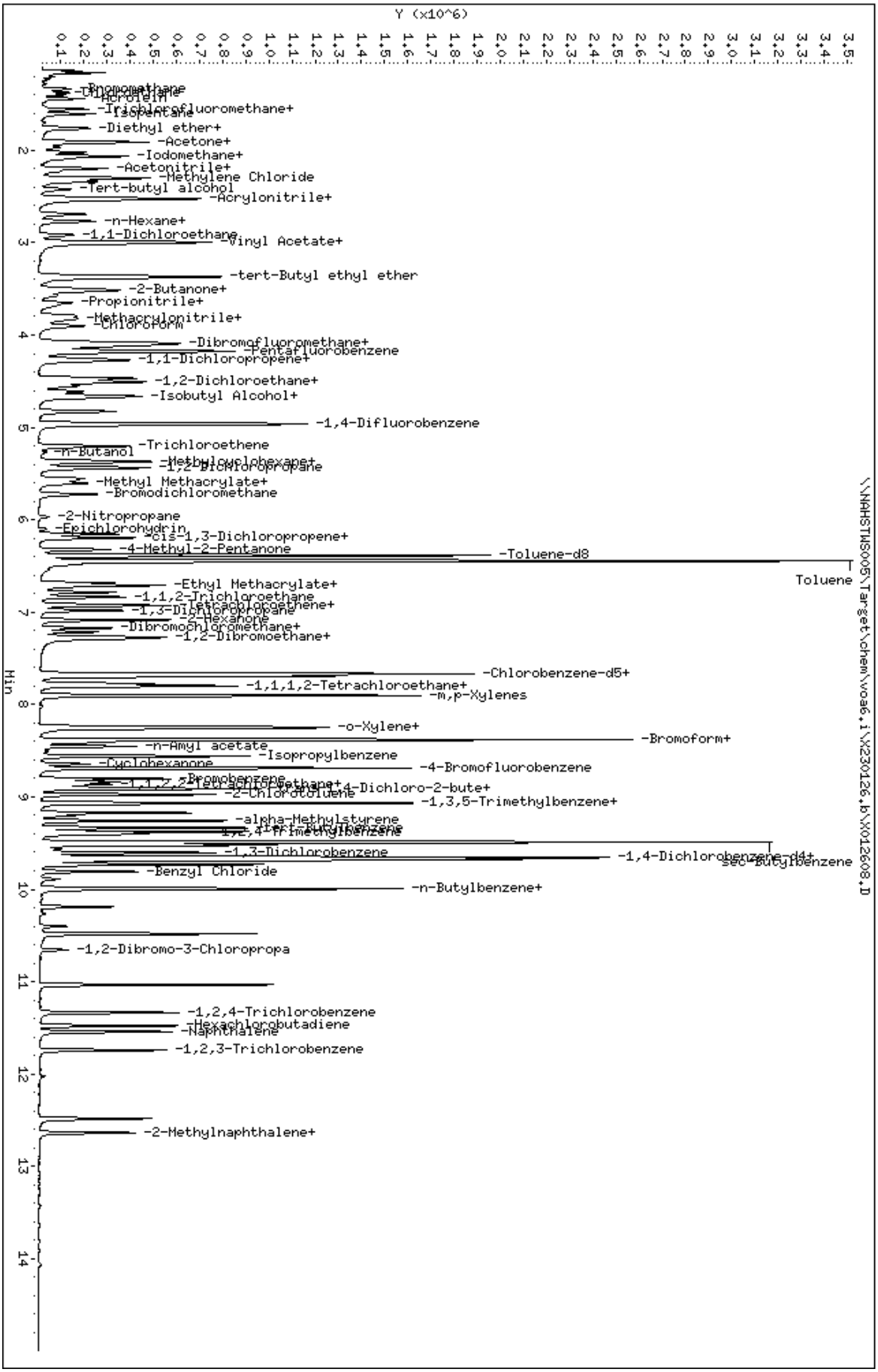
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	418340	20.7618	20.76
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	528967	25.3620	25.36
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	458466	24.5306	24.53
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	251689	19.7498	19.74
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	266660	19.1752	19.17
86	Benzyl Chloride	91	9.808	9.808	(1.279)	212327	17.8559	17.85
87	n-Butylbenzene	91	9.992	9.992	(1.034)	408249	23.6360	23.63
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	245230	18.6844	18.68
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	22929	19.2839	19.28
90	1,2,4-Trichlorobenzene	180	11.338	11.337	(1.173)	174667	21.0876	21.08
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	98327	26.9100	26.90
92	Naphthalene	128	11.540	11.540	(1.194)	420051	22.2890	22.28
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	158689	20.0039	20.00
146	Methyl acetate	43	2.228	2.224	(0.534)	50888	16.6936	16.69
138	Freon TF	101	1.910	1.910	(0.458)	95695	19.2434	19.24
141	Cyclohexane	56	4.118	4.118	(0.987)	155233	23.4206	23.42
142	Tetrahydrofuran	42	3.844	3.840	(0.921)	24895	27.3296	27.32
147	Methylcyclohexane	55	5.377	5.373	(1.084)	247170	21.5987	21.59
135	1,4-Dioxane	88	5.598	5.594	(1.341)	20231	326.698	326.69
132	n-Butanol	56	5.265	5.253	(1.261)	20514	276.190	276.18(a)
131	Methyl Acrylate	55	3.683	3.683	(0.882)	79495	17.2843	17.28
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	247170	19.7699	19.76
136	n-Hexane	57	2.768	2.768	(0.663)	115451	23.6692	23.66
139	Diethyl ether	59	1.752	1.752	(0.420)	66086	14.5996	14.59
148	Tert-butyl alcohol	59	2.420	2.423	(0.580)	155722	331.969	331.96
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	84144	343.474	343.47
156	Diisopropyl ether	45	2.993	2.997	(0.717)	295968	16.8417	16.84
160	2-Methylnaphthalene	142	12.635	12.634	(1.308)	183724	20.2347	20.23
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	442689	19.6435	19.64
167	Ethanol	45	1.696	1.696	(0.406)	15856	357.174	357.17
172	tert-Butyl formate	59	4.612	4.612	(1.105)	116710	32.4669	32.46
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	160347	400.294	400.29
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	321815	16.4799	16.47
175	tert-Butyl ethyl ether	59	3.368	3.372	(0.807)	312263	16.7222	16.72
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	116710	320.777	320.77
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	298920	337.819	337.81
180	1-Methylnaphthalene	142	12.635	12.634	(1.308)	183724		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	73901	15.8946	15.89
152	Amyl alcohol	42	6.910	6.903	(0.901)	23965	286.250	286.25
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	13569	15.4691	15.46
159	Propylene oxide	43	1.752	1.752	(0.420)	14477	33.9830	33.98
161	3-Methyl-1-butanol	55	6.910	6.903	(0.901)	29599	353.612	353.61
162	Butyl acrylate	55	8.252	8.249	(1.076)	209364	18.9309	18.93
182	Epichlorohydrin	57	6.093	6.093	(1.228)	25006	61.4787	61.47
M 94	1,2-Dichloroethylene (total)	96				217738	34.1420	34.14
M 95	Xylenes (total)	106				580479	57.8367	57.83
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	200117	19.2988	19.29
130	Ethyl Acetate	43	3.653	3.649	(0.875)	86009	16.2704	16.27
134	Cyclohexanone	55	8.642	8.642	(0.894)	61571	315.397	315.39(a)
185	Isoprene	39	1.771	1.767	(0.424)	32535	18.0276	18.02
186	Isopentane	42	1.606	1.606	(0.385)	63620		(a)
188	Isopropyl acetate	43	4.672	4.669	(0.942)	254830	17.5446	17.54

187 n-Amyl acetate	43	8.455	8.451 (1.103)	209358	21.2066	21.20
189 n-Butyl acetate	43	7.214	7.210 (0.941)	145449	19.9991	19.99

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	115451	463.660	463.66
194 Acetaldehyde	44	1.205	1.209	(0.289)	58281	128.338	128.33
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1219562	108.344	108.34
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	206403	18.0132	18.01
168 1-Propanol	59	2.997	2.997	(0.718)	35877	324.059	324.05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Purge Volume: 5.0
Column phase: DB624
Instrument: voa6,i
Operator: FT
Column diameter: 0.18
Page 1
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-Acrolein
-Trichlorofluoromethane+
-Isopentane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-n-Butanol
-Methylcyclohexane+
-1,2-Dichloropropane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane
-Epichlorohydrin
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-Tetrachloroethene+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-o-Xylene+
-Bromoform+
-n-Amyl acetate
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-alpha-Methylstyrene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
sec-Butylbenzene
-Benzyl Chloride
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
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-Naphthalene
-1,2,3-Trichlorobenzene
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InstruID : voa6.i
LabSampID : HS23011136-04MS

Chloroprene (126-99-8)

Reason Code:

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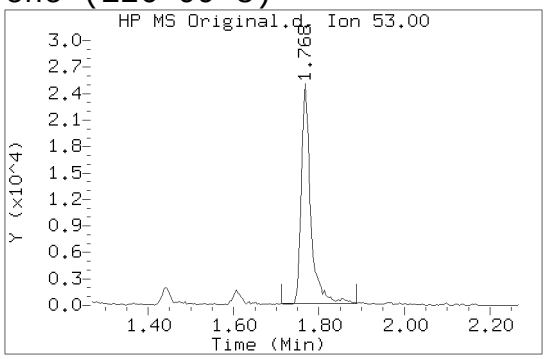

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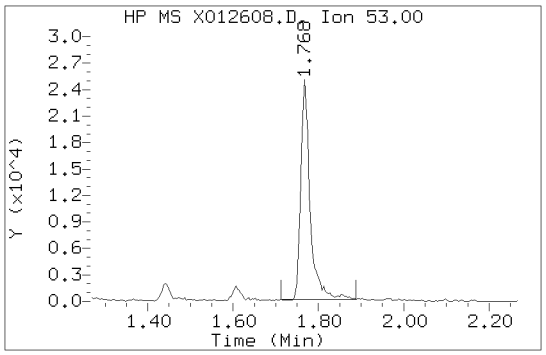

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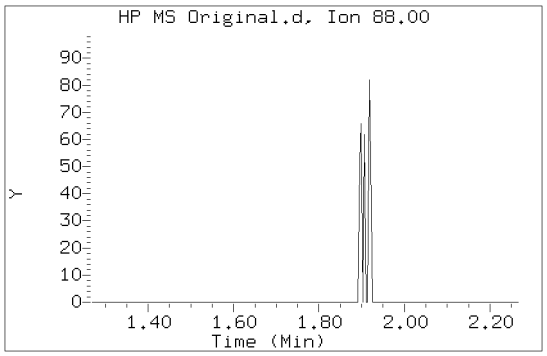

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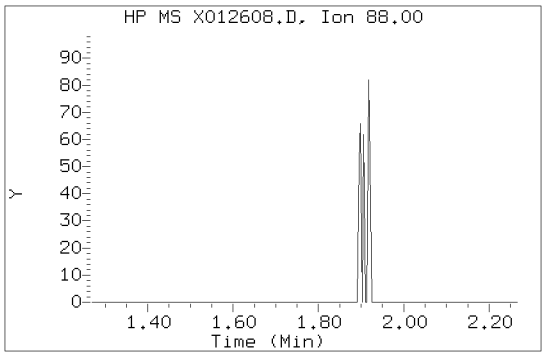

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Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

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Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	679614	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	57977	12.4942	12.49
3 Chloromethane	50	1.074	1.074	(0.257)	78709	14.4460	14.44
4 Propionitrile	54	3.649	3.645	(0.874)	104385	150.530	150.52(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	110653	18.6385	18.63
6 Bromomethane	94	1.336	1.336	(0.320)	58861	14.4101	14.41
7 Chloroethane	64	1.400	1.400	(0.335)	58624	14.1871	14.18
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	139516	16.7931	16.79
9 Acrolein	56	1.441	1.441	(0.345)	12934	29.8643	29.86
10 Acetone	43	1.970	1.966	(0.472)	62296	32.6450	32.64
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	81817	15.8623	15.86
12 Isobutyl Alcohol	43	4.672	4.669	(1.119)	260240	340.443	340.44(a)
13 Acetonitrile	39	2.195	2.194	(0.526)	107190	173.297	173.29(a)
14 Allyl Chloride	41	2.195	2.194	(0.526)	186184	15.8046	15.80(a)
15 Iodomethane	142	2.022	2.022	(0.485)	206115	33.4815	33.48
16 Acrylonitrile	53	2.532	2.528	(0.607)	56872	32.5099	32.50
17 Methylene Chloride	84	2.299	2.299	(0.551)	98277	13.8906	13.89
18 Methyl tert-butyl ether	73	2.532	2.528	(0.607)	264076	15.6415	15.64
19 Carbon Disulfide	76	2.063	2.063	(0.494)	463346	34.3343	34.33
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	93334	16.1682	16.16

21 Vinyl Acetate	43	2.993	2.993 (0.717)	488508	32.9615	32.96
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	158022	15.5976	15.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	35081	15.1815	15.18(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	75743	39.3387	39.33
	25 Methacrylonitrile	41	3.821	3.814	(0.916)	69702	14.4843	14.48(a)
	26 2,2-Dichloropropane	77	3.503	3.506	(0.839)	150530	17.4995	17.49
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	116113	16.5279	16.52
	28 Chloroform	83	3.900	3.900	(0.934)	177935	15.6700	15.66
	29 Bromochloromethane	128	3.795	3.788	(0.909)	54061	14.0546	14.05
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	298983	45.8028	45.80
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	161068	17.8780	17.87
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	132722	19.5708	19.57
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	139610	17.8381	17.83
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	136828	18.8941	18.89
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	342900	49.7855	49.78
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	955229	50.0000	
	37 Benzene	78	4.511	4.507	(0.909)	388846	17.0467	17.04
	38 Trichloroethene	130	5.205	5.205	(1.049)	122059	18.8659	18.86
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	137564	16.0693	16.06
	40 Methyl Methacrylate	41	5.606	5.602	(1.343)	73340	15.8266	15.82(a)
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	97148	16.0105	16.01
	43 2-Nitropropane	43	5.969	5.966	(1.430)	25754	15.0065	15.00
	44 Dibromomethane	93	5.550	5.549	(1.119)	65293	15.8314	15.83
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	168186	36.4677	36.46
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	164205	16.3326	16.33
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	862847	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	1112015	52.1545	52.15
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	74332	16.5247	16.52(a)
	50 Toluene	91	6.442	6.445	(0.840)	2063108	86.5059	86.50
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	139431	16.7114	16.71
	52 2-Hexanone	43	7.083	7.083	(0.924)	296635	94.5361	94.53
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	78755	16.4601	16.46
	54 1,3-Dichloropropane	76	6.978	6.981	(0.910)	158336	16.8128	16.81
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	113968	16.5039	16.50
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	100618	20.3906	20.39
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	102376	17.1136	17.11
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	104038	22.5370	22.53
	59 Chlorobenzene	112	7.694	7.694	(1.003)	287937	17.0214	17.02
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	106823	16.9686	16.96
	61 Ethylbenzene	106	7.799	7.799	(1.017)	149766	18.7949	18.79
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	381698	37.1583	37.15
	63 o-Xylene	106	8.241	8.237	(1.075)	180656	17.8187	17.81
	64 Styrene	104	8.260	8.256	(1.077)	305939	18.0033	18.00
	66 Bromoform	173	8.410	8.410	(1.097)	77175	16.1318	16.13
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	477833	20.6292	20.62
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	131544	17.3530	17.35
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	413910	51.9330	51.93
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	475607	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	137140	25.9139	25.91
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	33106	17.7734	17.77(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	559040	21.2204	21.22
	74 Bromobenzene	156	8.803	8.803	(0.911)	137397	17.6081	17.60
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	399076	20.5060	20.50
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	338145	19.5601	19.56

77 4-Chlorotoluene	91	9.070	9.069 (0.939)	388583	19.7175	19.71
78 tert-Butylbenzene	119	9.336	9.336 (0.966)	343062	21.5350	21.53

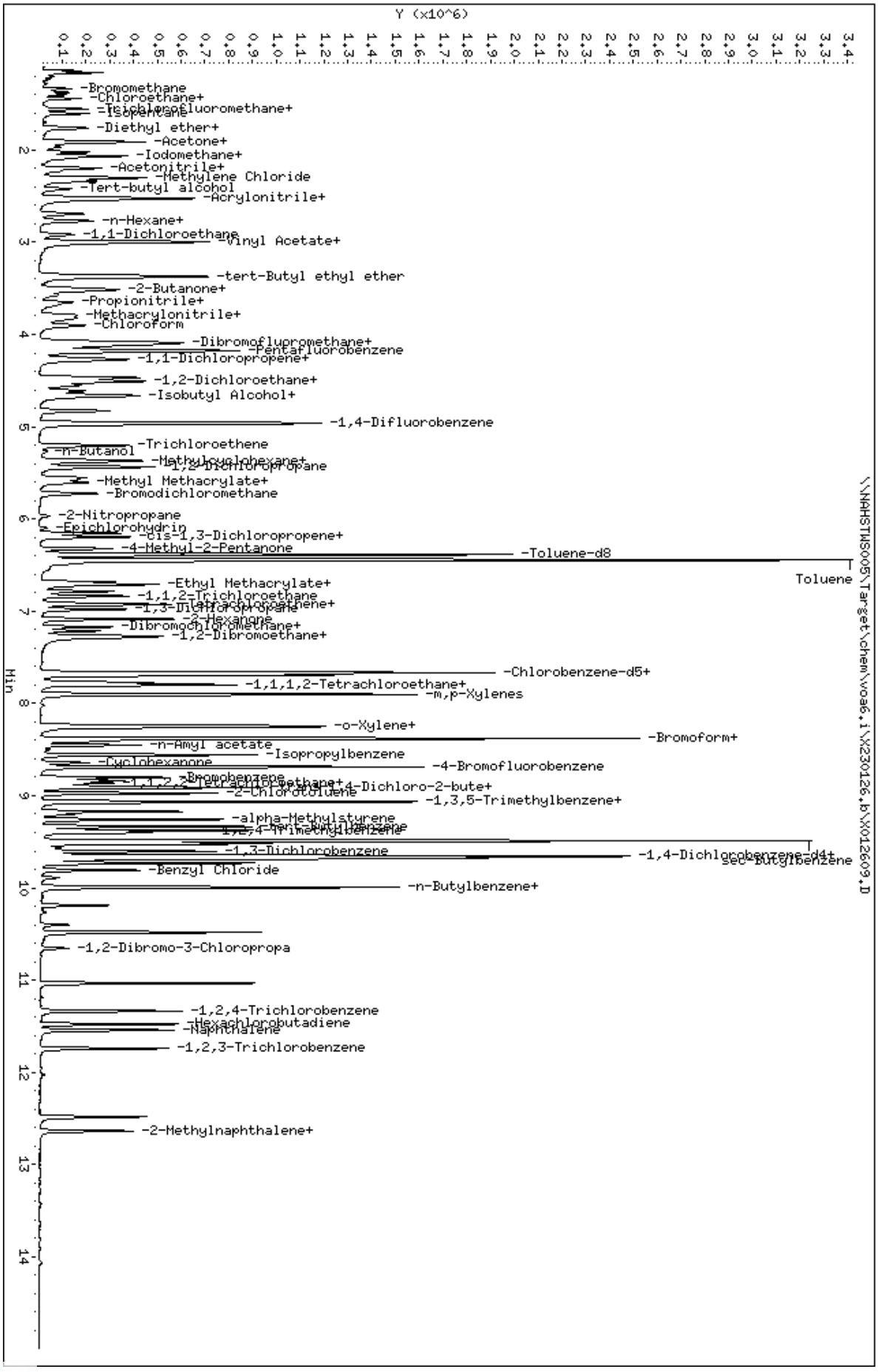
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	403055	19.6829	19.68
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	501585	23.6641	23.66
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	438126	23.0669	23.06
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	243270	18.7835	18.78
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	253512	17.9379	17.93
86	Benzyl Chloride	91	9.808	9.808	(1.279)	205777	17.1120	17.11
87	n-Butylbenzene	91	9.992	9.992	(1.034)	391881	22.4236	22.42
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	239008	17.9188	17.91
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	22222	18.3943	18.39
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	169528	20.1394	20.13
91	Hexachlorobutadiene	225	11.476	11.480	(1.188)	94277	25.3946	25.39
92	Naphthalene	128	11.544	11.540	(1.195)	401982	20.9886	20.98
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	148658	18.4394	18.43
146	Methyl acetate	43	2.228	2.224	(0.534)	48010	15.6992	15.69
138	Freon TF	101	1.910	1.910	(0.458)	88055	17.6506	17.65
141	Cyclohexane	56	4.118	4.118	(0.987)	148798	22.4343	22.43
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	24553	26.8147	26.81
147	Methylcyclohexane	55	5.377	5.373	(1.084)	222690	19.0451	19.04
135	1,4-Dioxane	88	5.598	5.594	(1.341)	19590	315.338	315.33
132	n-Butanol	56	5.265	5.253	(1.261)	20704	277.599	277.59(a)
131	Methyl Acrylate	55	3.686	3.683	(0.883)	75959	16.4628	16.46
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	222690	17.9416	17.94
136	n-Hexane	57	2.768	2.768	(0.663)	106193	21.7017	21.70
139	Diethyl ether	59	1.752	1.752	(0.420)	62186	13.6942	13.69
148	Tert-butyl alcohol	59	2.423	2.423	(0.581)	154494	328.301	328.30
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	83725	340.674	340.67
156	Diisopropyl ether	45	2.997	2.997	(0.718)	277621	15.7473	15.74
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	168207	18.2290	18.22
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	405353	17.6988	17.69
167	Ethanol	45	1.696	1.696	(0.406)	13869	310.996	310.99
172	tert-Butyl formate	59	4.612	4.612	(1.105)	117700	32.6379	32.63
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	156293	382.842	382.84
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	304658	15.5516	15.55
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.808)	293901	15.6887	15.68
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	117700	322.466	322.46
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	320239	354.204	354.20
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	168207		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	68768	14.7434	14.74
152	Amyl alcohol	42	6.907	6.903	(0.901)	23330	273.429	273.42
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	11745	13.3470	13.34
159	Propylene oxide	43	1.752	1.752	(0.420)	14361	33.6032	33.60
161	3-Methyl-1-butanol	55	6.907	6.903	(0.901)	26792	314.063	314.06
162	Butyl acrylate	55	8.252	8.249	(1.076)	197819	17.5509	17.55
182	Epichlorohydrin	57	6.101	6.093	(1.230)	23807	57.4547	57.45
M 94	1,2-Dichloroethylene (total)	96				209447	32.6961	32.69
M 95	Xylenes (total)	106				562354	54.9770	54.97
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	189127	17.9468	17.94
130	Ethyl Acetate	43	3.653	3.649	(0.875)	87673	16.5323	16.53
134	Cyclohexanone	55	8.642	8.642	(0.894)	58074	292.720	292.71(a)
185	Isoprene	39	1.767	1.767	(0.423)	28592	15.7923	15.79
186	Isopentane	42	1.606	1.606	(0.385)	53711		(a)
188	Isopropyl acetate	43	4.672	4.669	(0.942)	260240	17.5355	17.53

187 n-Amyl acetate	43	8.451	8.451 (1.102)	208200	20.6930	20.69
189 n-Butyl acetate	43	7.214	7.210 (0.941)	144436	19.4867	19.48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	106193	425.119	425.11
194 Acetaldehyde	44	1.209	1.209	(0.290)	91400	213.742	213.74
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1207217	105.232	105.23
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	193158	16.5405	16.54
168 1-Propanol	59	2.993	2.997	(0.717)	31986	287.992	287.99

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS23011136-04HSD;HS23011136-04HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: woa6.i
Operator: FT
Column diameter: 0.18

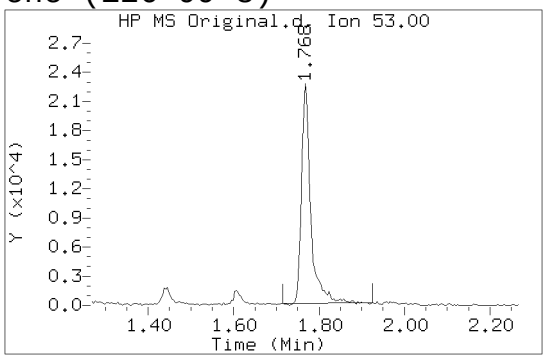
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012609.D
Inj Date : 26-JAN-2023 11:12
InstruID : voa6.i
LabSampID : HS23011136-04MSD

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
35081
HEIGHT
22637
13-Feb-2023
13:31
linh
pham



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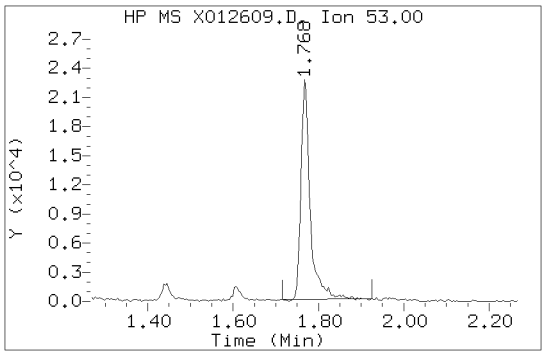

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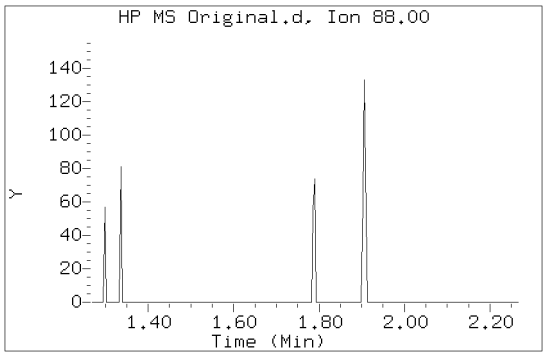

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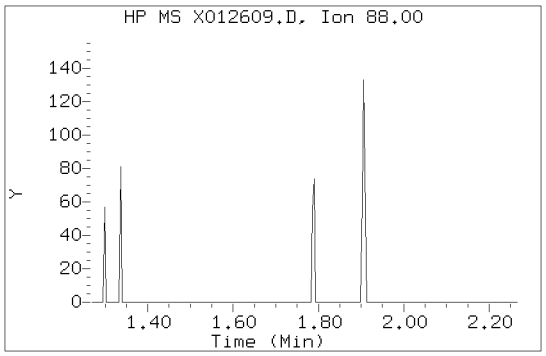

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Report Date: 13-Feb-2023 13:32

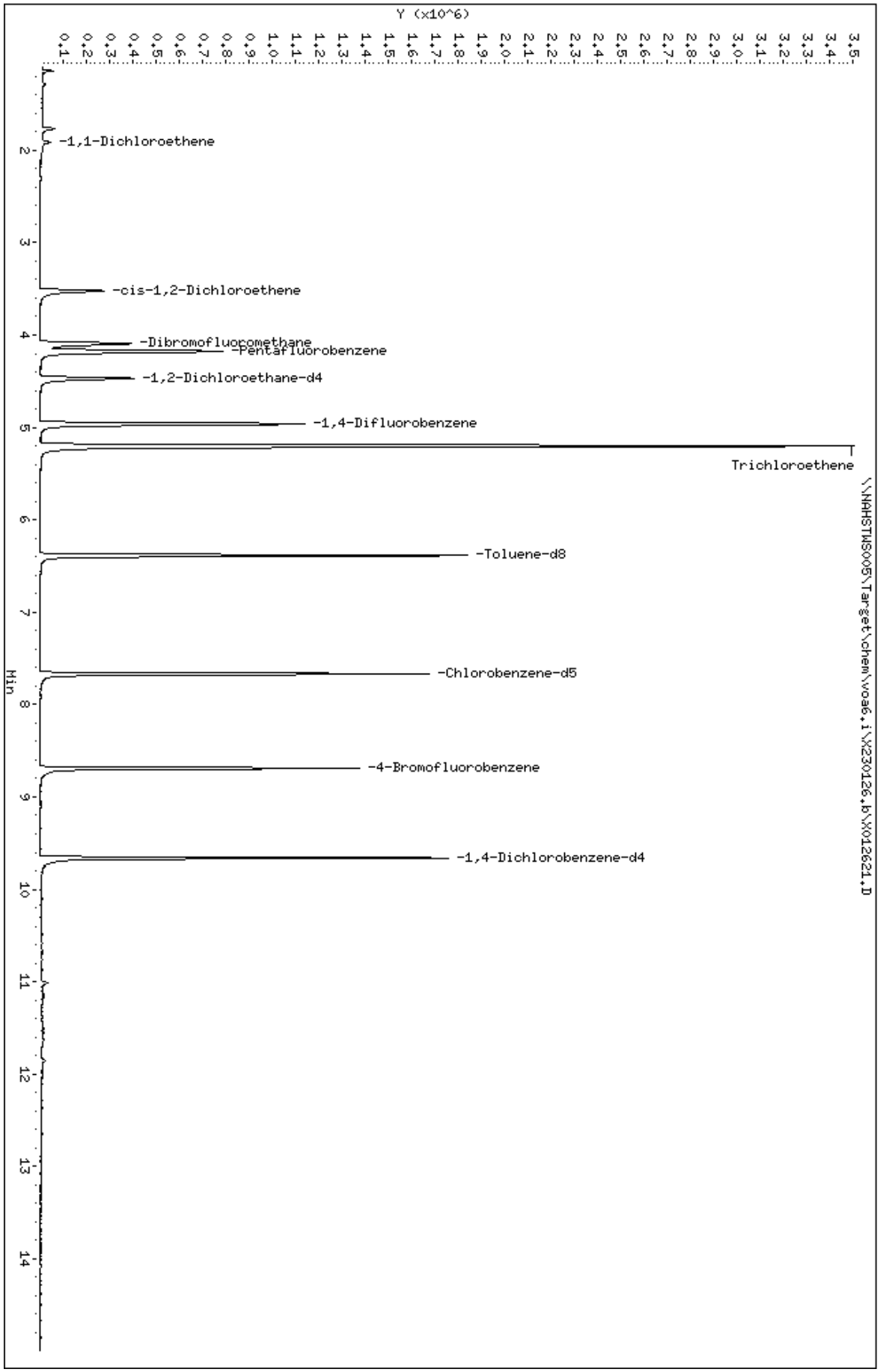
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012621.D
Lab Smp Id: HS23011165-02 Client Smp ID: HS23011165-02
Inj Date : 26-JAN-2023 15:24
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-02;HS23011165-02;;;
Misc Info : V6;WATER;0;20;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 20
Dil Factor: 20.00000
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	20.000	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	4.178	4.174	(1.000)	649433	50.0000	
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	30594	5.39276	107.85
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	4747	0.96309	19.26
	27 cis-1,2-Dichloroethene	96	3.525	3.521	(0.844)	153318	22.8380	456.75
$	30 Dibromofluoromethane	113	4.091	4.095	(0.979)	286059	45.8596	45.85
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	327187	49.7122	49.71
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	921364	50.0000	
	38 Trichloroethene	130	5.201	5.205	(1.048)	1141517	182.922	3658.43
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	817833	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	1063293	52.6142	52.61
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	382957	50.6955	50.69
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	437259	50.0000	
M	94 1,2-Dichloroethylene (total)	96				153318	22.8380	456.75



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230126,b\X012621.D
Date : 26-JAN-2023 15:24
Client ID: HS23011165-02
Sample Info: HS23011165-02;HS23011165-02;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012621.D Page 2

Date : 26-JAN-2023 15:24

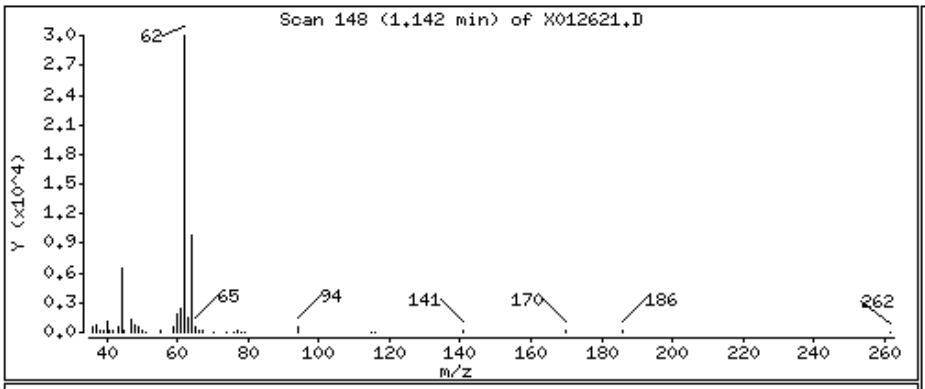
Client ID: HS23011165-02 Instrument: voa6.i

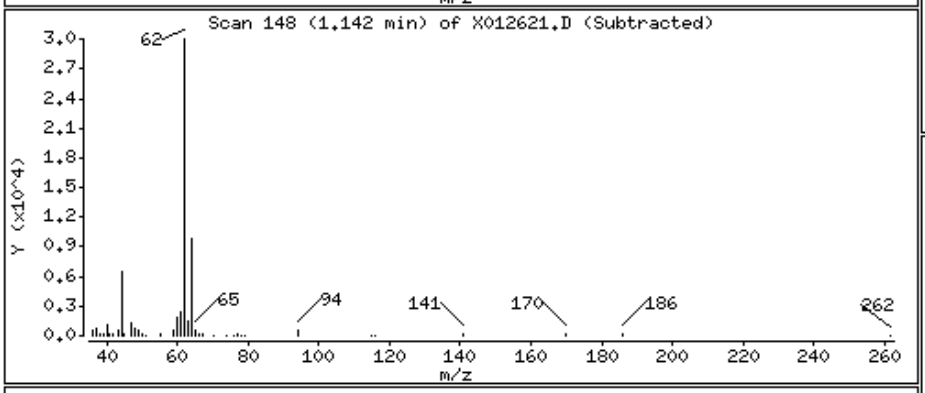
Sample Info: HS23011165-02;HS23011165-02;;;

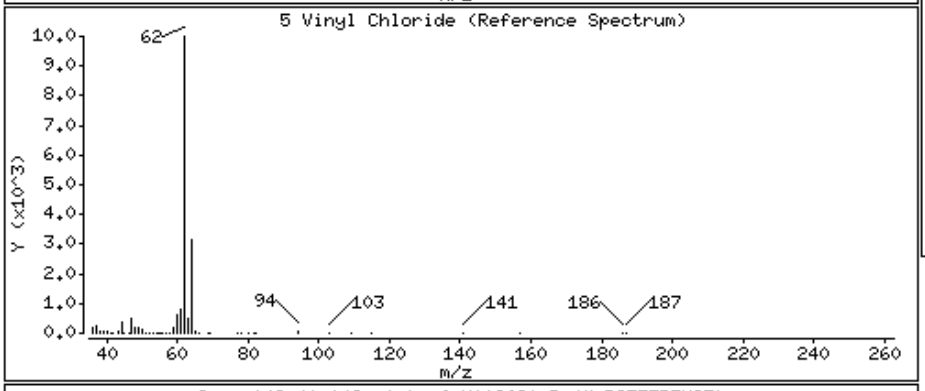
Purge Volume: 5.0 Operator: FT

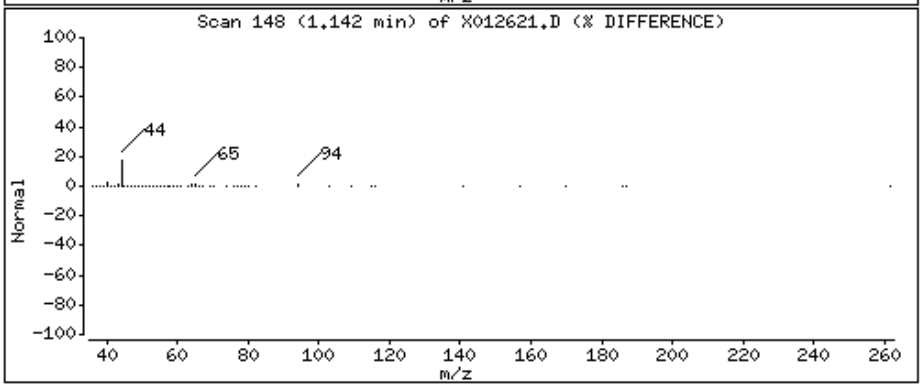
Column phase: DB624 Column diameter: 0.18

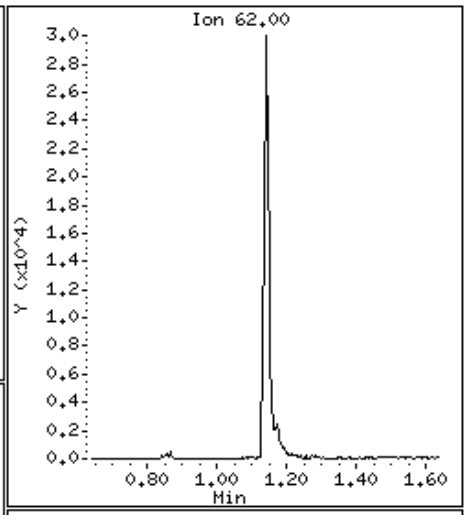
5 Vinyl Chloride Concentration: 107.85 ug/l

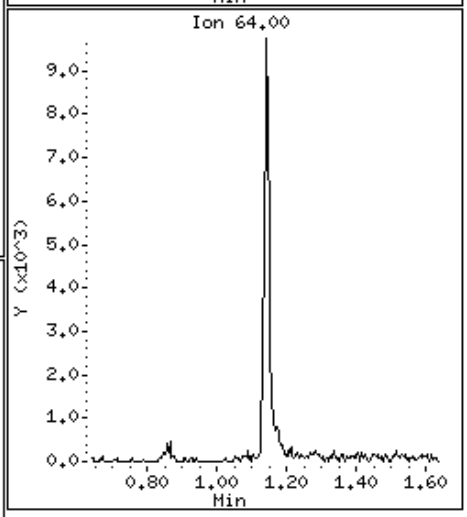












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012621.D Page 3

Date : 26-JAN-2023 15:24

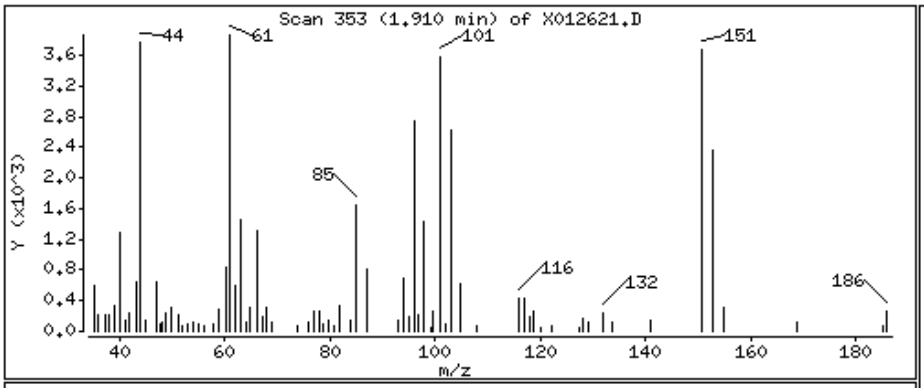
Client ID: HS23011165-02 Instrument: voa6.i

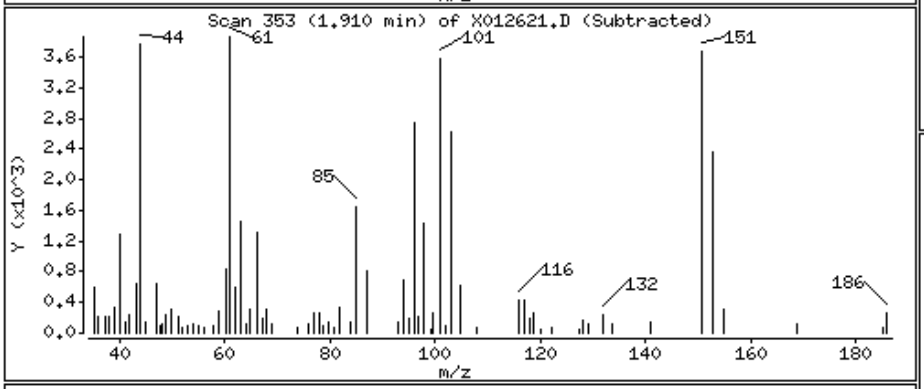
Sample Info: HS23011165-02;HS23011165-02;;;

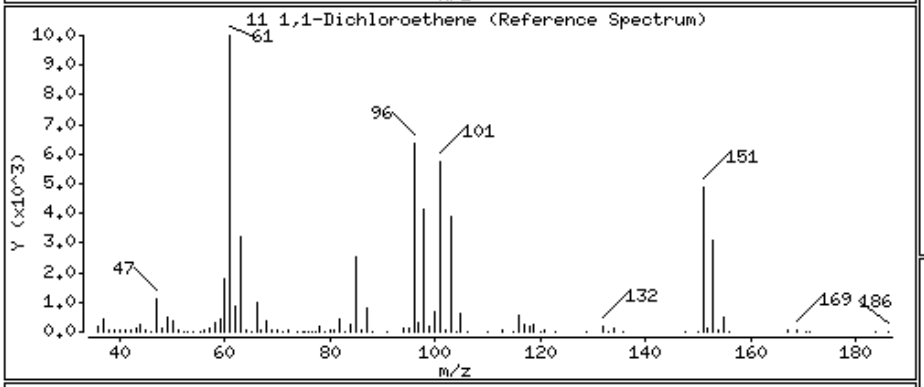
Purge Volume: 5.0 Operator: FT

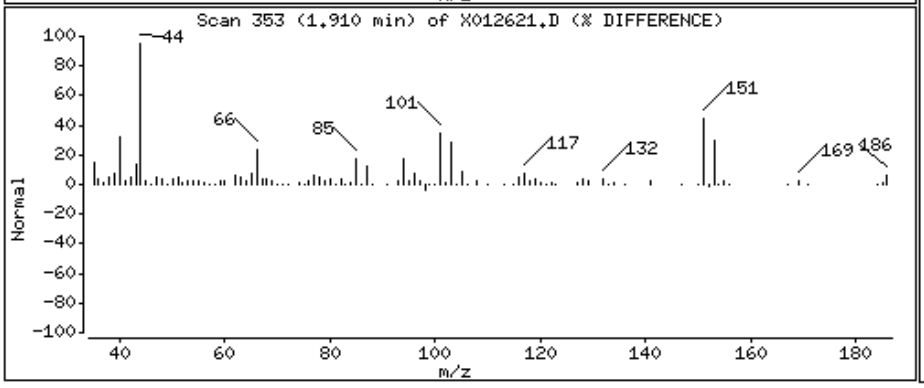
Column phase: DB624 Column diameter: 0.18

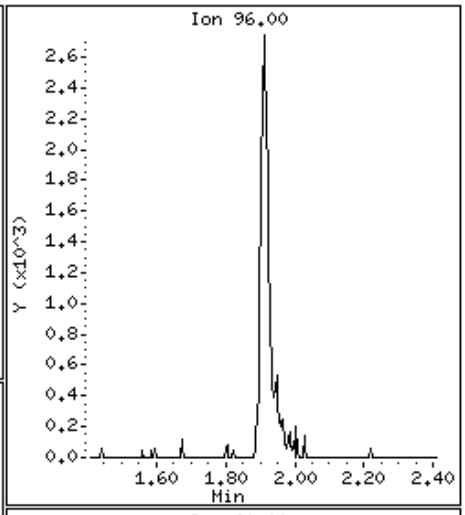
11 1,1-Dichloroethene Concentration: 19.26 ug/l

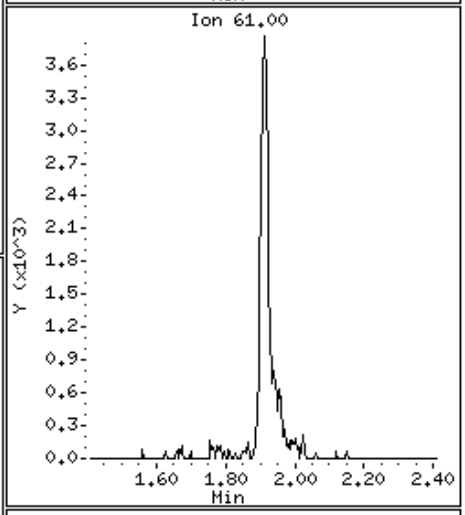


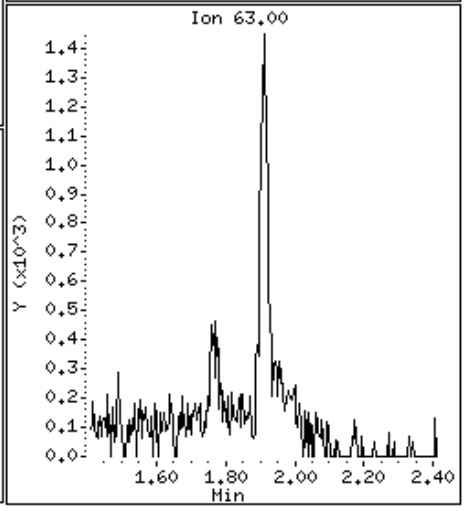












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Date : 26-JAN-2023 15:24

Client ID: HS23011165-02

Instrument: voa6.i

Sample Info: HS23011165-02;HS23011165-02;;;

Purge Volume: 5.0

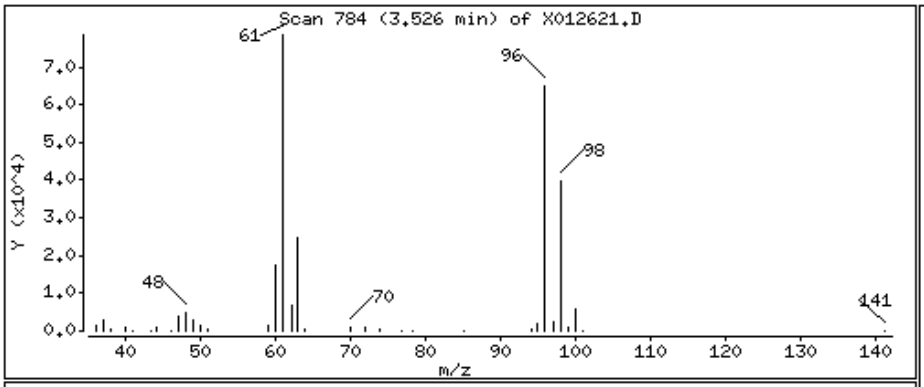
Operator: FT

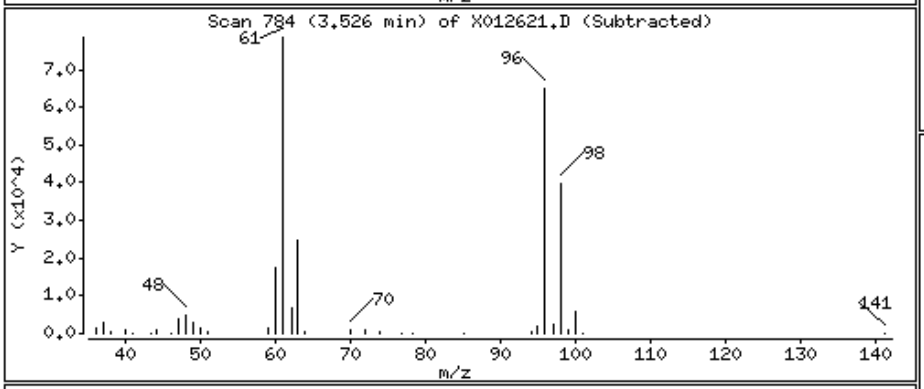
Column phase: DB624

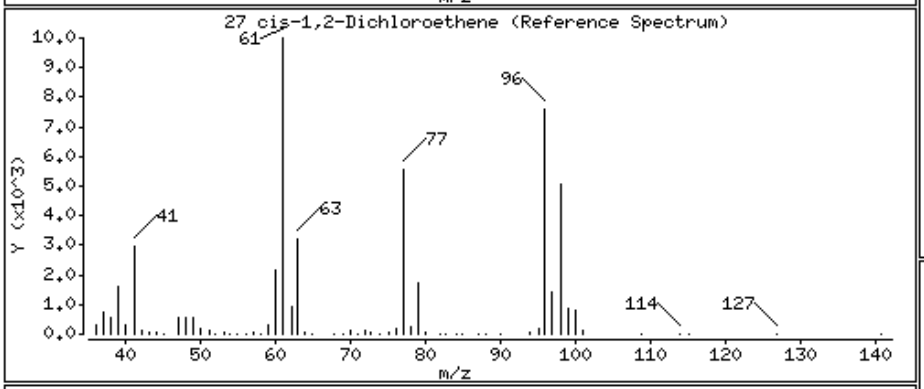
Column diameter: 0.18

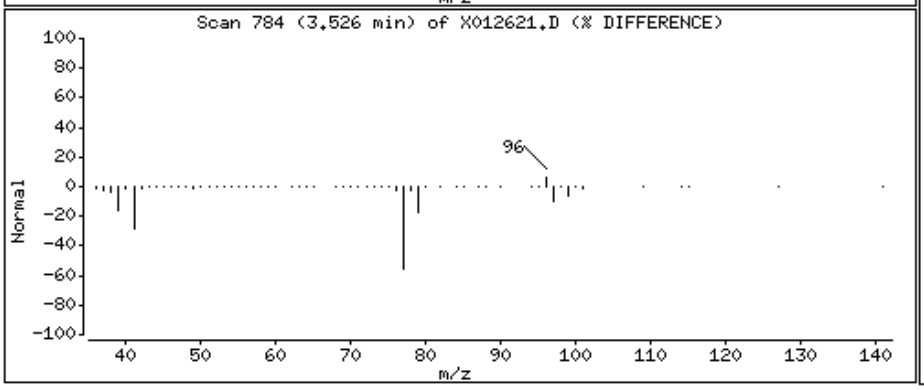
27 cis-1,2-Dichloroethene

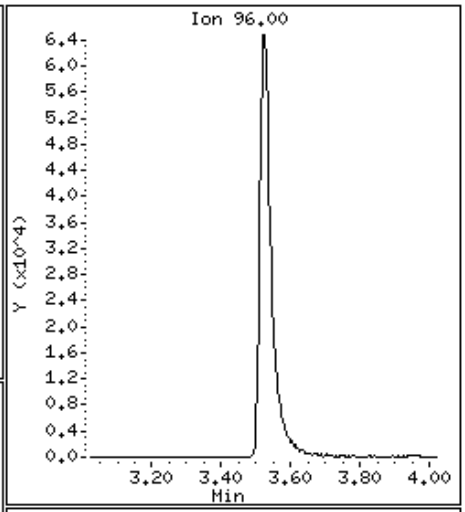
Concentration: 456.75 ug/l

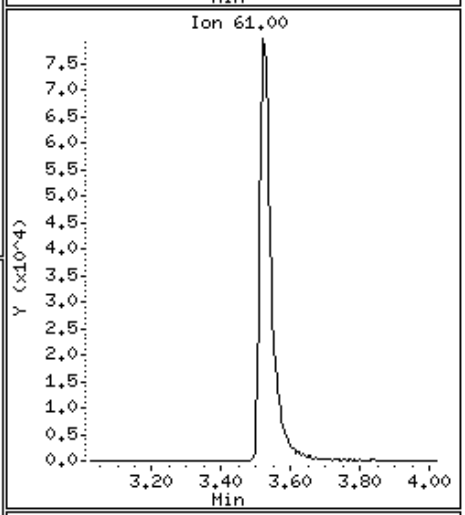


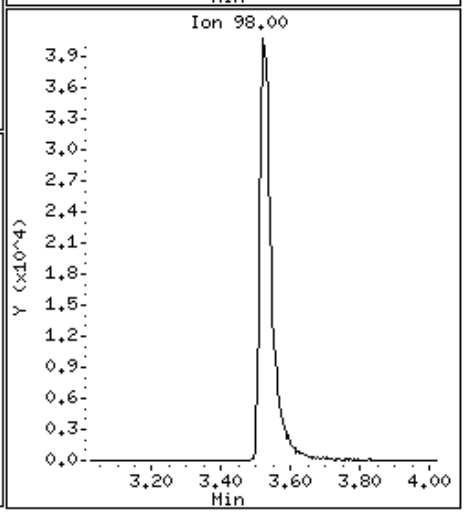












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012621.D Page 5

Date : 26-JAN-2023 15:24

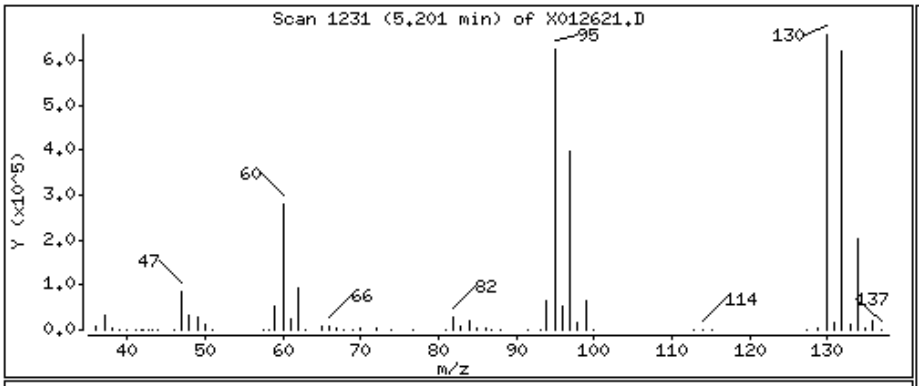
Client ID: HS23011165-02 Instrument: voa6.i

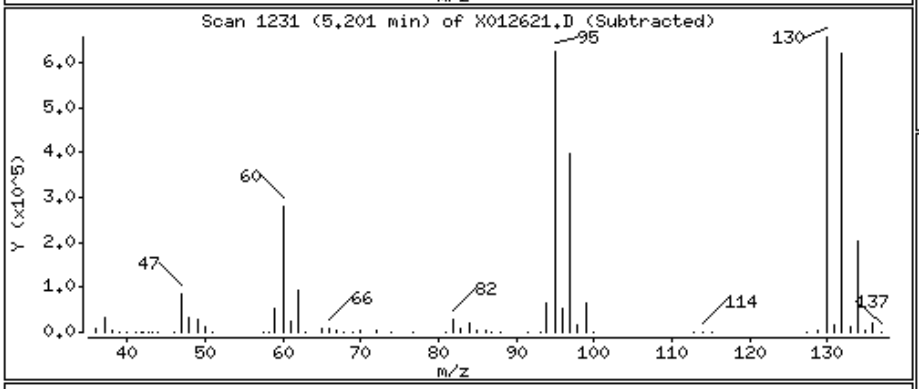
Sample Info: HS23011165-02;HS23011165-02;;;

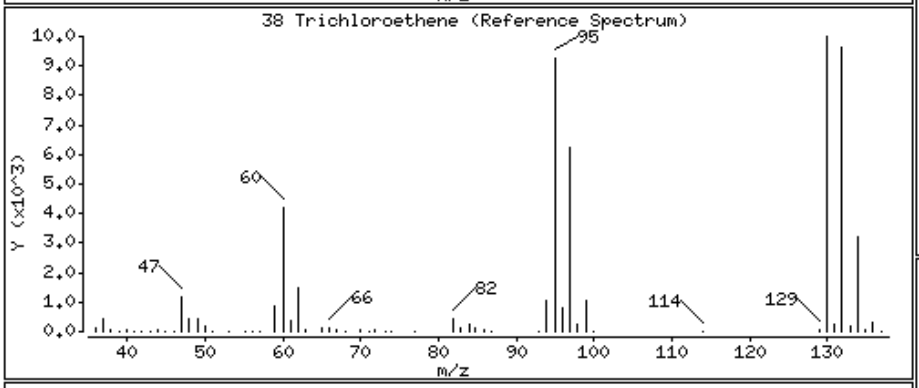
Purge Volume: 5.0 Operator: FT

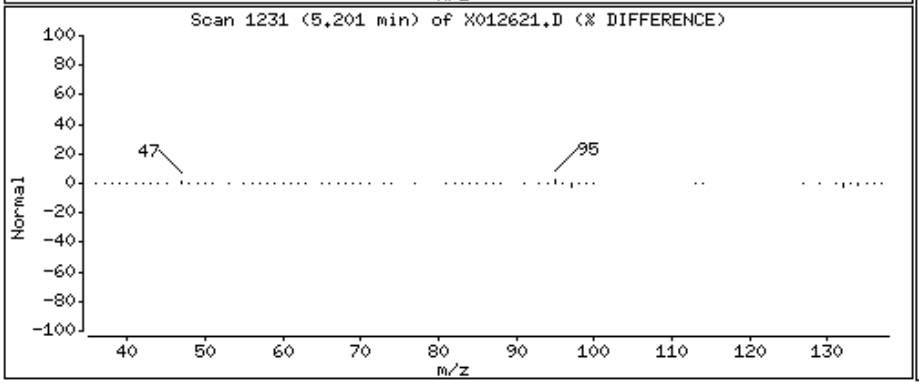
Column phase: DB624 Column diameter: 0.18

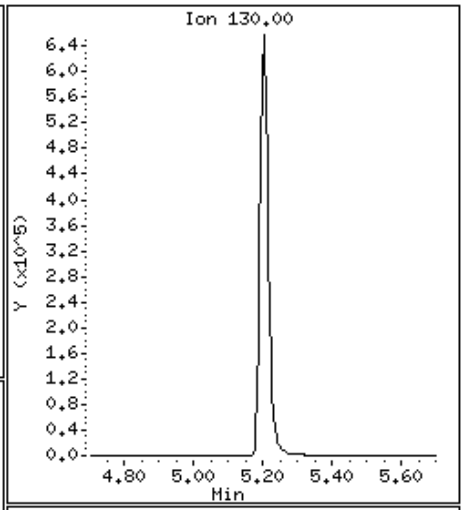
38 Trichloroethene Concentration: 3658.43 ug/l

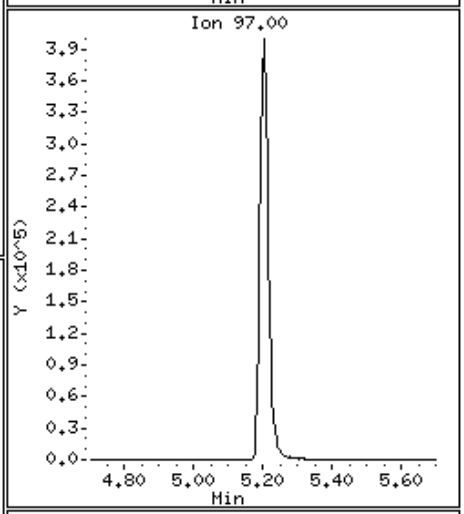


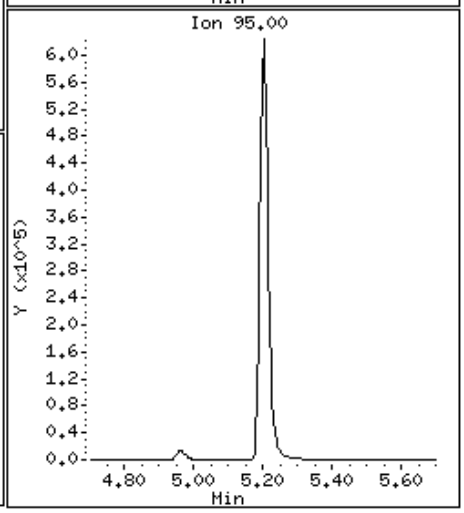












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Inj Date : 26-JAN-2023 15:24
InstruID : voa6.i
LabSampID : HS23011165-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012622.D Page 1
Report Date: 13-Feb-2023 13:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012622.D
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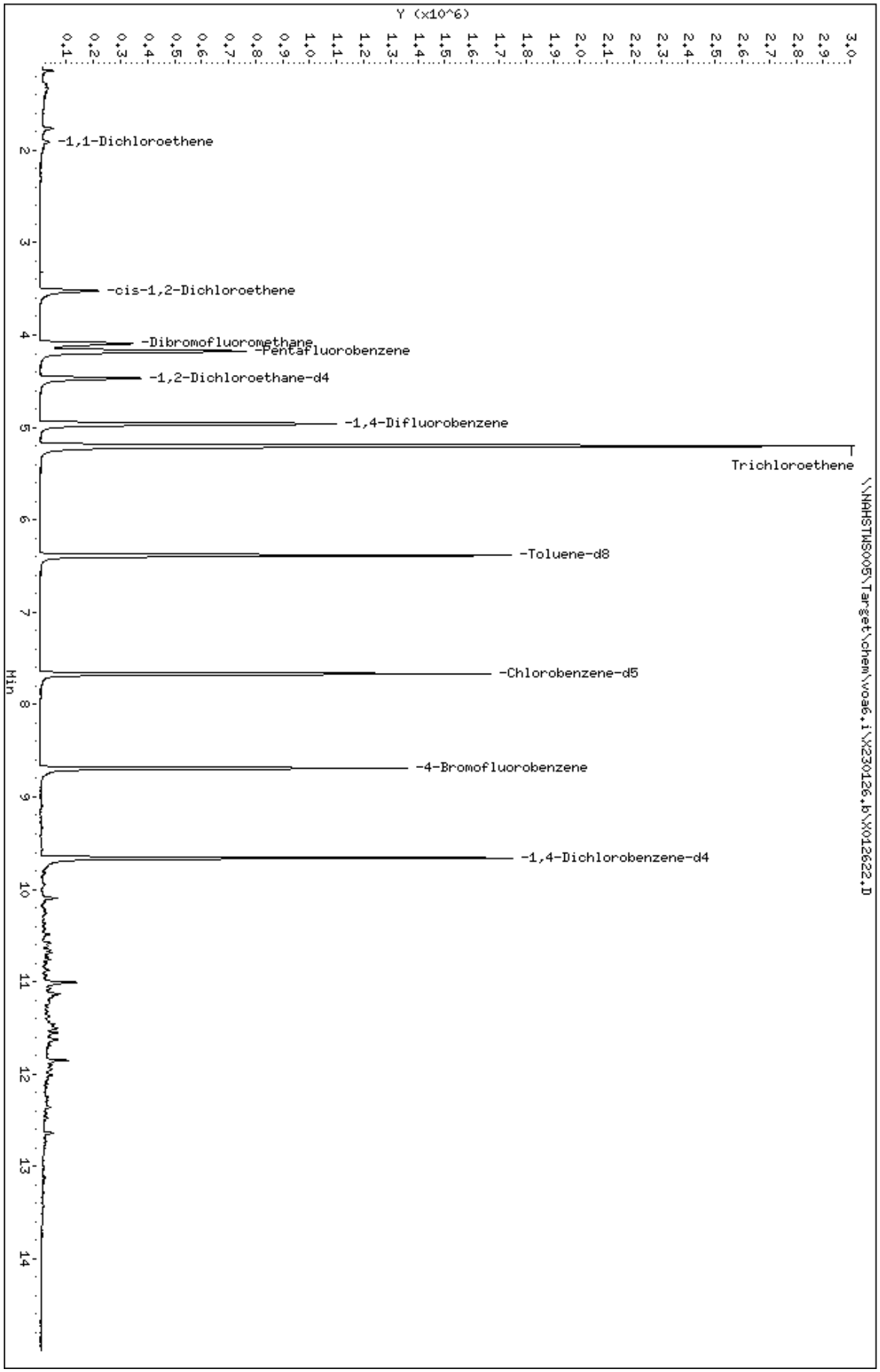
Inj Date : 26-JAN-2023 15:45
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-03;HS23011165-03;;;
Misc Info : V6;WATER;0;20;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 21
Dil Factor: 20.00000
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	20.000	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	4.174	4.174	(1.000)	634633	50.0000	
	5 Vinyl Chloride	62	1.137	1.141	(0.273)	27376	4.93806	98.76
	11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	3416	0.70922	14.18
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	126888	19.3418	386.83
$	30 Dibromofluoromethane	113	4.091	4.095	(0.980)	261736	42.9282	42.92
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	307097	47.7587	47.75
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	896434	50.0000	
	38 Trichloroethene	130	5.201	5.205	(1.048)	990686	163.167	3263.33
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	803819	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	1027542	51.7316	51.73
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	378983	51.0437	51.04
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	431318	50.0000	
M	94 1,2-Dichloroethylene (total)	96				126888	19.3418	386.83



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230126,b\X012622.D
Date : 26-JAN-2023 15:45
Client ID: HS23011165-03
Sample Info: HS23011165-03;HS23011165-03;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012622.D Page 2

Date : 26-JAN-2023 15:45

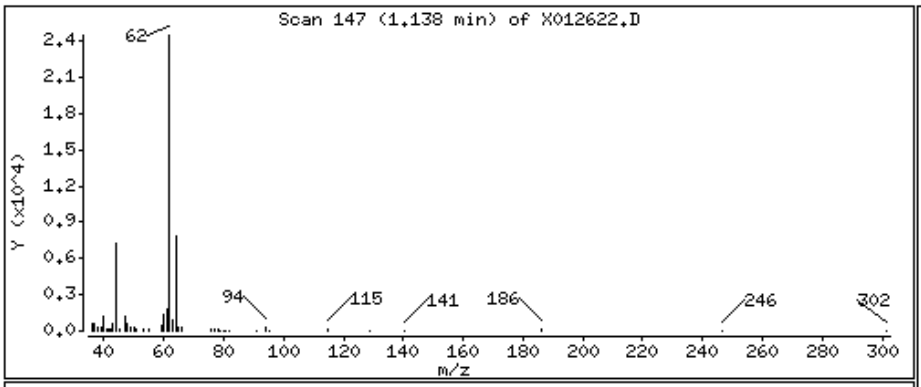
Client ID: HS23011165-03 Instrument: voa6.i

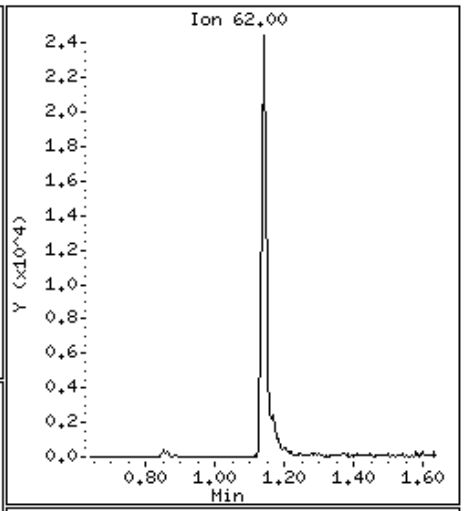
Sample Info: HS23011165-03;HS23011165-03;;;

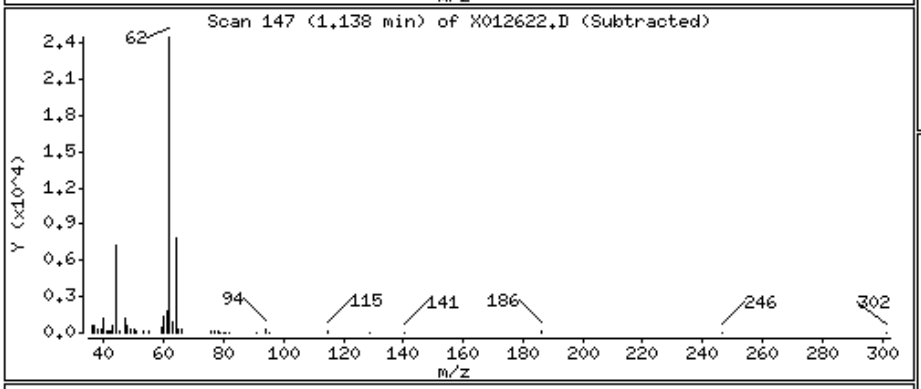
Purge Volume: 5.0 Operator: FT

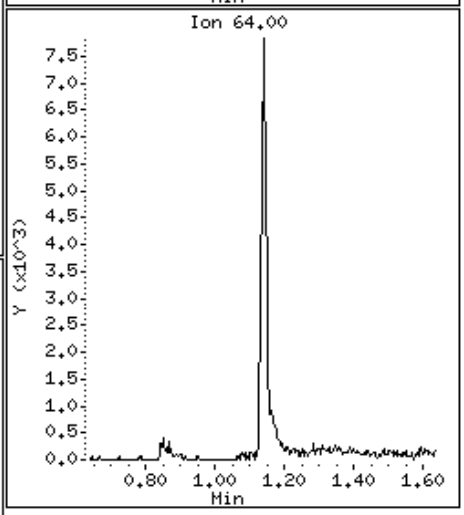
Column phase: DB624 Column diameter: 0.18

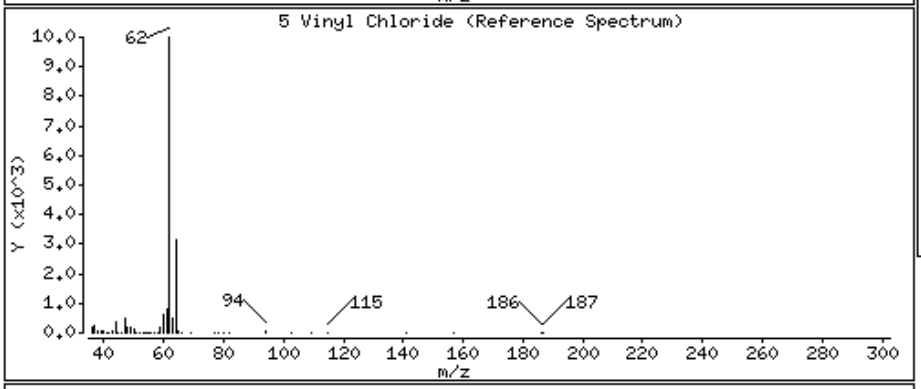
5 Vinyl Chloride Concentration: 98.76 ug/l

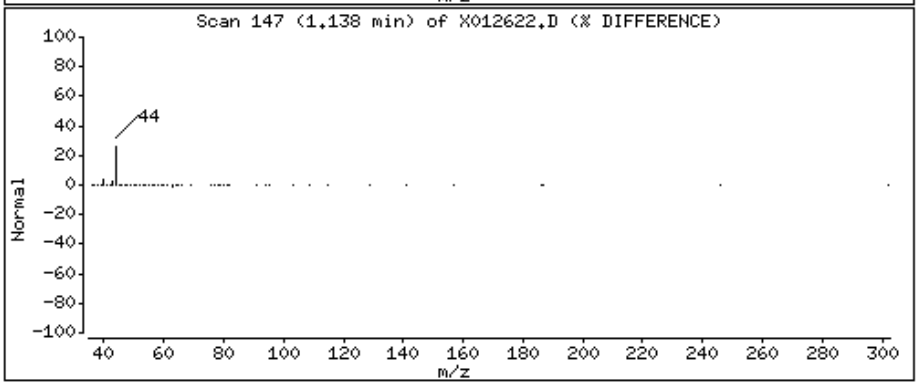












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012622.D

Date : 26-JAN-2023 15:45

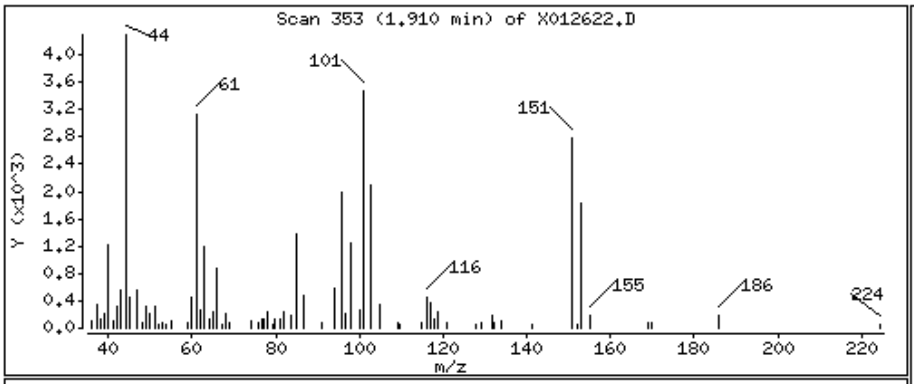
Client ID: HS23011165-03 Instrument: voa6.i

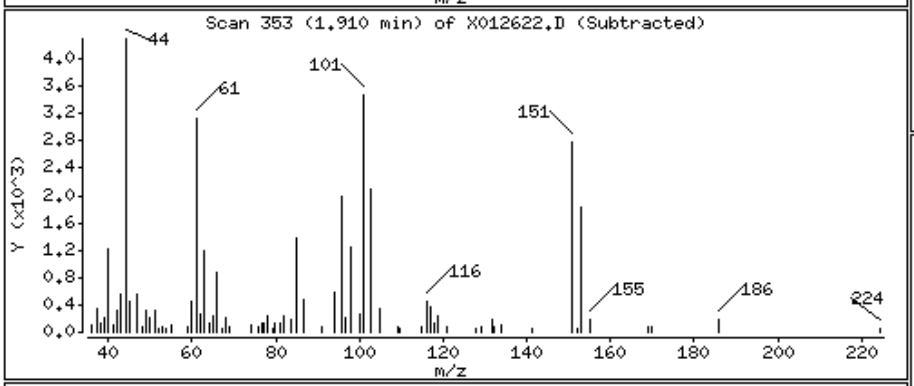
Sample Info: HS23011165-03;HS23011165-03;;;

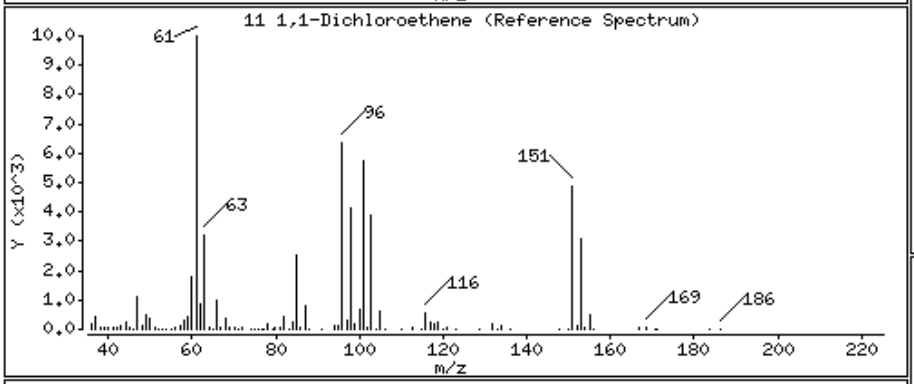
Purge Volume: 5.0 Operator: FT

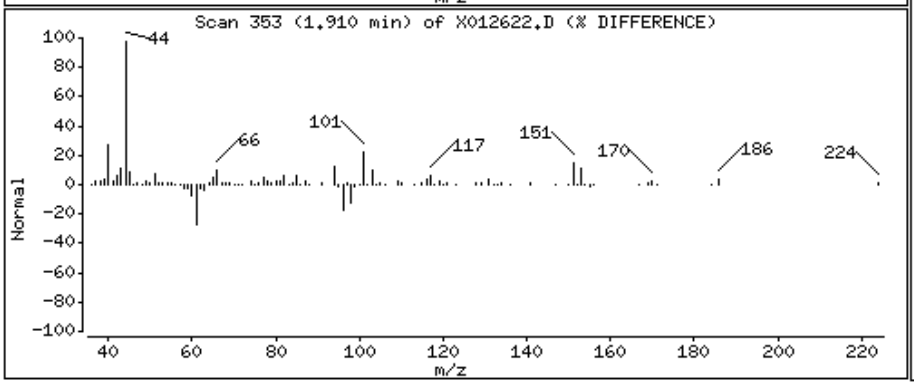
Column phase: DB624 Column diameter: 0.18

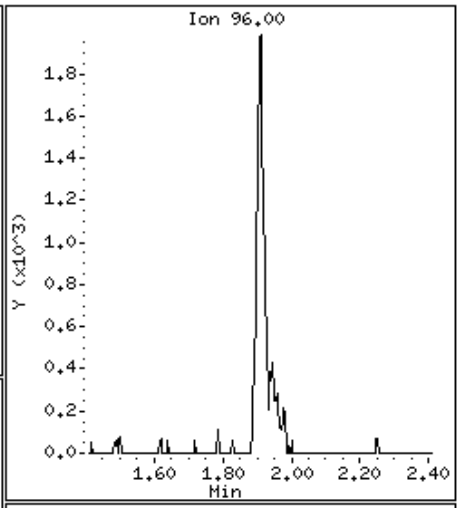
11 1,1-Dichloroethene Concentration: 14.18 ug/l

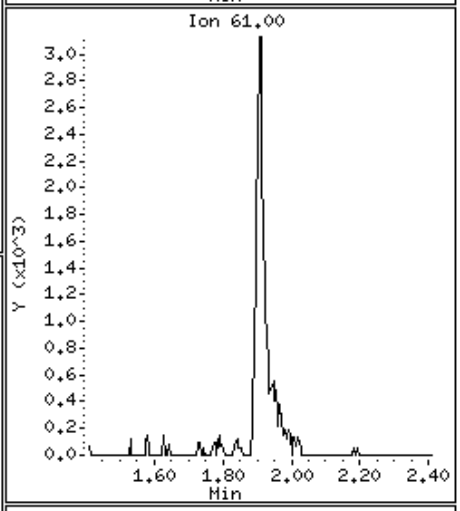


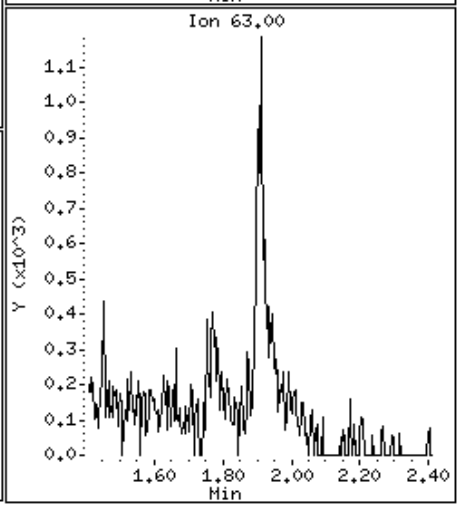












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012622.D Page 4

Date : 26-JAN-2023 15:45

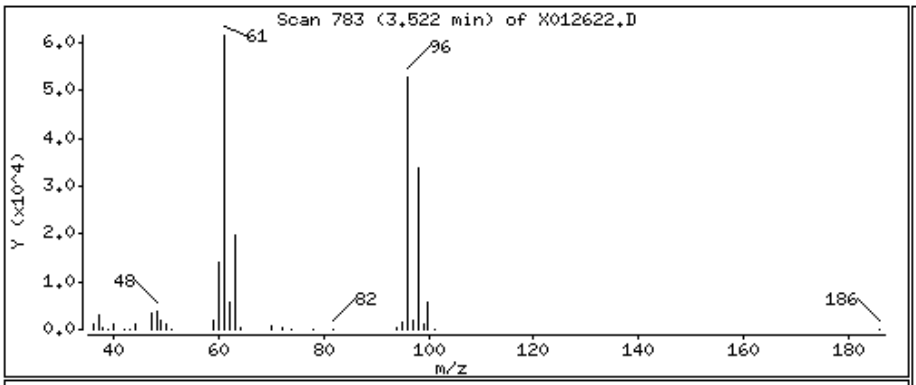
Client ID: HS23011165-03 Instrument: voa6.i

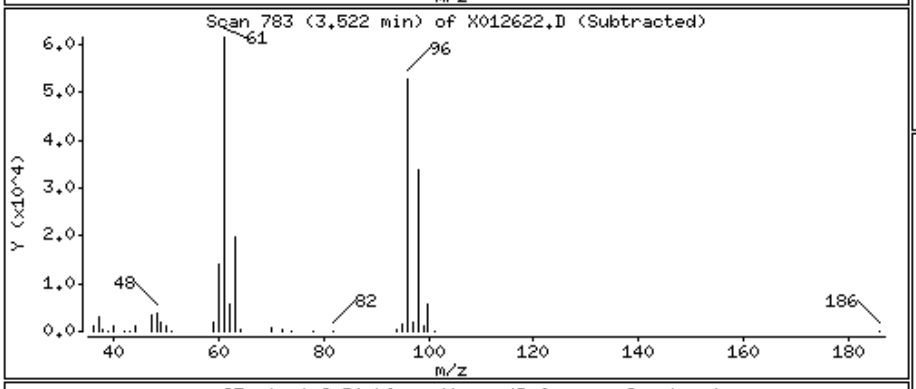
Sample Info: HS23011165-03;HS23011165-03;;;

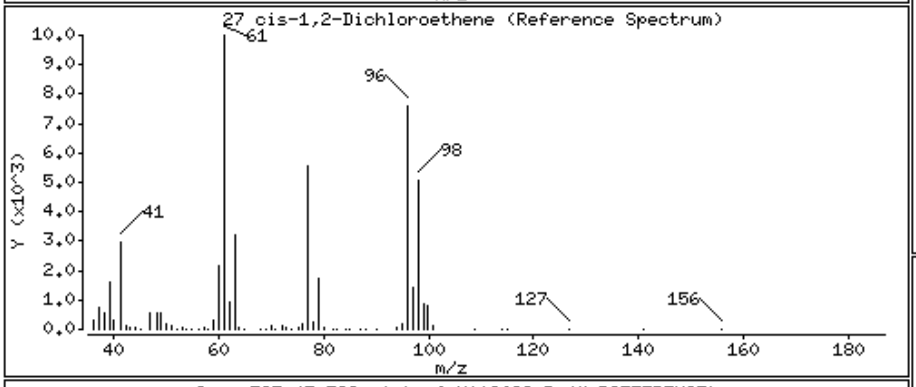
Purge Volume: 5.0 Operator: FT

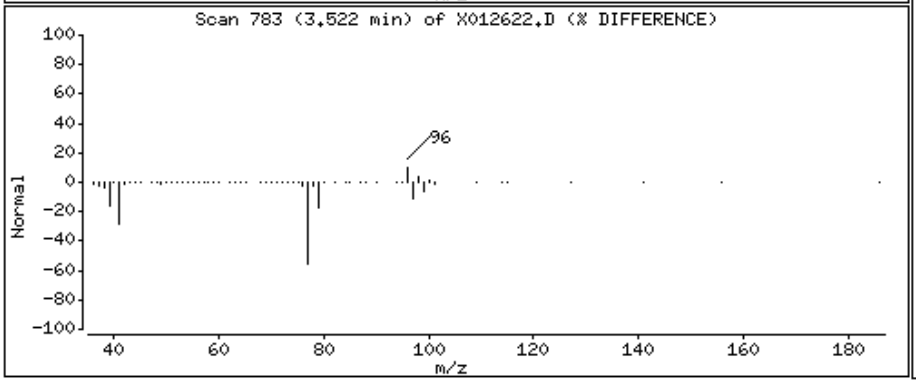
Column phase: DB624 Column diameter: 0.18

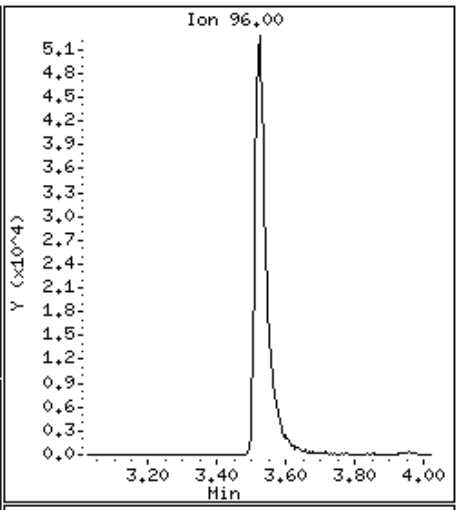
27 cis-1,2-Dichloroethene Concentration: 386.83 ug/l

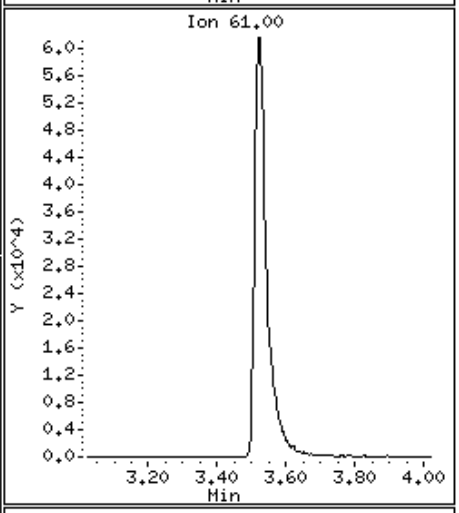


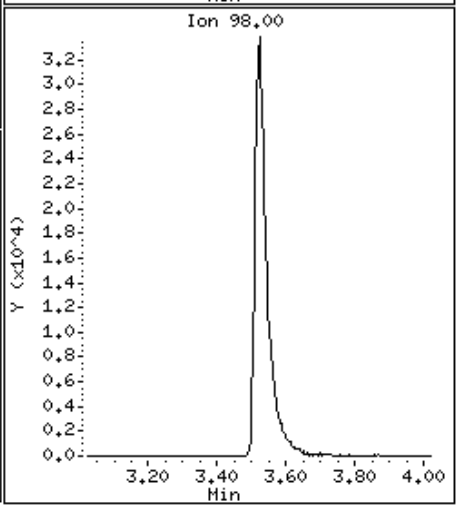












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012622.D Page 5

Date : 26-JAN-2023 15:45

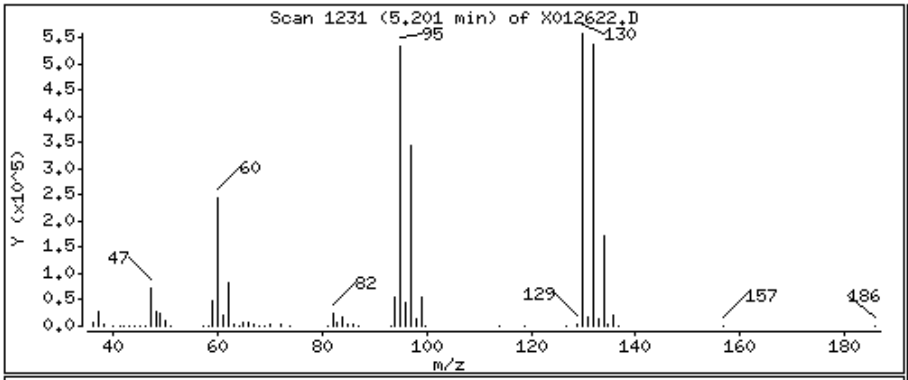
Client ID: HS23011165-03 Instrument: voa6.i

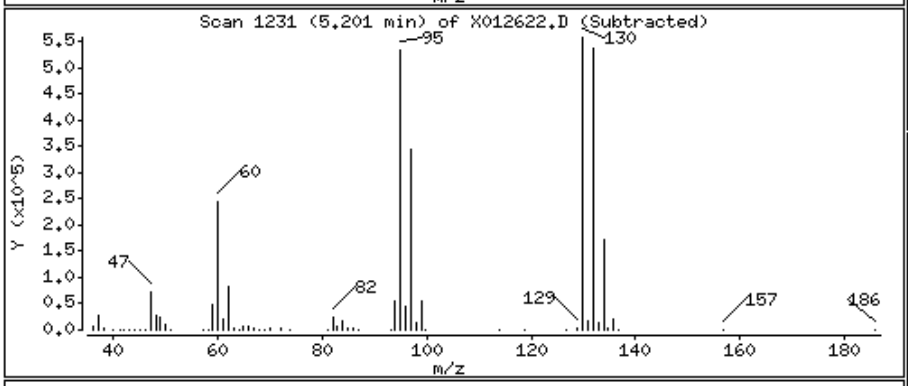
Sample Info: HS23011165-03;HS23011165-03;;;

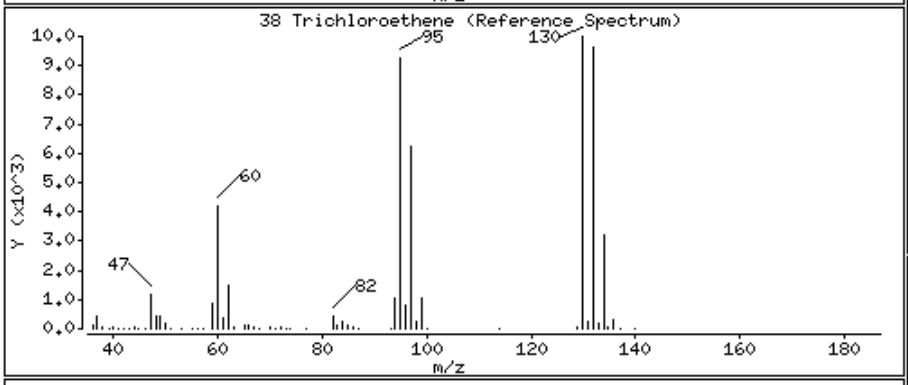
Purge Volume: 5.0 Operator: FT

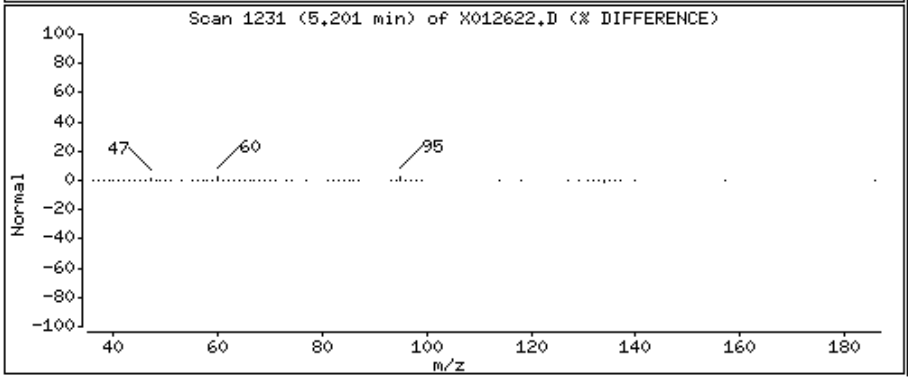
Column phase: DB624 Column diameter: 0.18

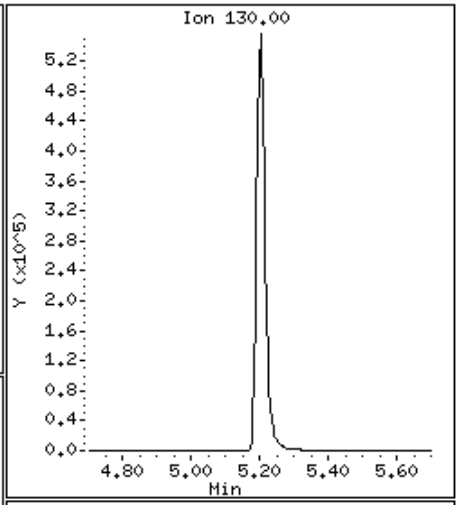
38 Trichloroethene Concentration: 3263.33 ug/l

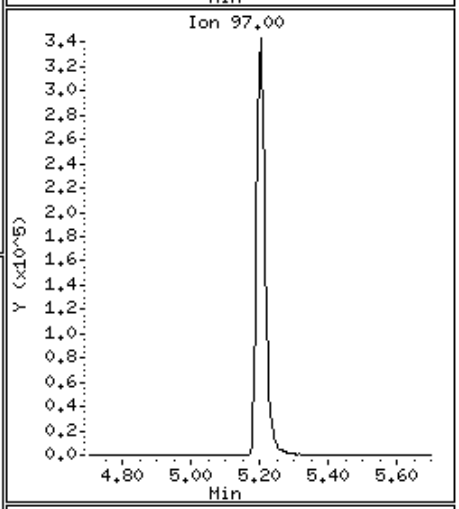


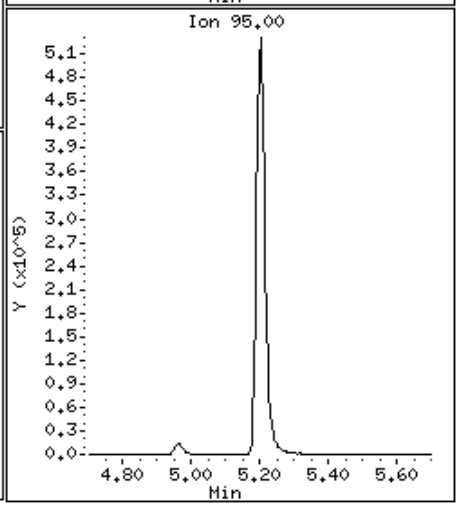












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012622.D
Inj Date : 26-JAN-2023 15:45
InstruID : voa6.i
LabSampID : HS23011165-03

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012629.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 26-JAN-2023 18:12
Operator : FT Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\8260W.m
Meth Date : 13-Feb-2023 13:32 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 28 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	4.174	4.174	(1.000)	542544	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	165427	50.0000	43.64
3 Chloromethane	50	1.074	1.074	(0.257)	215601	50.0000	44.19
4 Propionitrile	54	3.645	3.645	(0.873)	275741	500.000	498.09
5 Vinyl Chloride	62	1.137	1.137	(0.273)	218131	50.0000	46.02
6 Bromomethane	94	1.336	1.336	(0.320)	158347	50.0000	44.37
7 Chloroethane	64	1.400	1.400	(0.335)	140058	50.0000	42.45
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	346377	50.0000	52.22
9 Acrolein	56	1.441	1.441	(0.345)	32264	100.000	87.32
10 Acetone	43	1.966	1.966	(0.471)	142268	100.000	93.45
11 1,1-Dichloroethene	96	1.909	1.909	(0.458)	201919	50.0000	49.03
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	660325	1000.00	1082.06
13 Acetonitrile	39	2.194	2.194	(0.526)	266183	500.000	539.06
14 Allyl Chloride	41	2.194	2.194	(0.526)	470664	50.0000	50.04
15 Iodomethane	142	2.022	2.022	(0.485)	512772	100.000	94.87
16 Acrylonitrile	53	2.528	2.528	(0.606)	145807	100.000	104.40
17 Methylene Chloride	84	2.299	2.299	(0.551)	262232	50.0000	46.42
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	661796	50.0000	49.10
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1109385	100.000	102.97
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	233150	50.0000	50.59

21 Vinyl Acetate	43	2.993	2.993 (0.717)	1155821	100.000	97.69
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	407489	50.0000	50.38

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012629.D Page 2
Report Date: 13-Feb-2023 13:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	86810	50.0000	47.05(M)
24	2-Butanone	43	3.570	3.570	(0.855)	160681	100.000	99.52
25	Methacrylonitrile	41	3.810	3.810	(0.913)	189690	50.0000	49.37(a)
26	2,2-Dichloropropane	77	3.506	3.506	(0.840)	349667	50.0000	50.91
27	cis-1,2-Dichloroethene	96	3.521	3.521	(0.844)	275156	50.0000	49.06
28	Chloroform	83	3.900	3.900	(0.934)	464775	50.0000	51.27
29	Bromochloromethane	128	3.788	3.788	(0.908)	142555	50.0000	46.42
$ 30	Dibromofluoromethane	113	4.091	4.091	(0.980)	247275	50.0000	47.45
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	407600	50.0000	56.67
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	342156	50.0000	58.80
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	367114	50.0000	54.66
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	348902	50.0000	56.15
$ 35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	287609	50.0000	52.29
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	819604	50.0000	
37	Benzene	78	4.507	4.507	(0.909)	1000924	50.0000	51.14
38	Trichloroethene	130	5.201	5.201	(1.048)	300745	50.0000	54.17
39	Bromodichloromethane	83	5.722	5.722	(1.153)	369012	50.0000	50.23
40	Methyl Methacrylate	41	5.602	5.602	(1.342)	205014	50.0000	55.41
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	229275	100.000	109.71
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	255804	50.0000	49.13
43	2-Nitropropane	43	5.965	5.965	(1.429)	72591	50.0000	52.98
44	Dibromomethane	93	5.549	5.549	(1.119)	172222	50.0000	48.66
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	436991	100.000	104.53
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	435656	50.0000	50.50
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	782109	50.0000	
$ 48	Toluene-d8	98	6.382	6.382	(0.832)	912074	50.0000	47.19
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	197730	50.0000	51.23
50	Toluene	91	6.442	6.442	(0.840)	1123292	50.0000	51.96
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	378776	50.0000	52.91
52	2-Hexanone	43	7.083	7.083	(0.924)	305845	100.000	107.53
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	208830	50.0000	48.15
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	423240	50.0000	49.58
55	Dibromochloromethane	129	7.173	7.173	(0.935)	312679	50.0000	49.95
56	Tetrachloroethene	164	6.925	6.925	(0.903)	255787	50.0000	57.18
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	275813	50.0000	50.86
58	1-Chlorohexane	55	7.694	7.694	(1.551)	240271	50.0000	60.66
59	Chlorobenzene	112	7.690	7.690	(1.003)	763078	50.0000	49.76
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	291284	50.0000	51.04
61	Ethylbenzene	106	7.795	7.795	(1.017)	397563	50.0000	55.04
62	m,p-Xylenes	106	7.900	7.900	(1.030)	1002544	100.000	107.67
63	o-Xylene	106	8.241	8.241	(1.075)	481568	50.0000	52.40
64	Styrene	104	8.256	8.256	(1.077)	832278	50.0000	54.03
66	Bromoform	173	8.406	8.406	(1.096)	213349	50.0000	49.19
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1251152	50.0000	59.59
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	331162	50.0000	46.12
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	363901	50.0000	50.37
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	450450	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	276444	50.0000	55.15
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	86652	50.0000	51.32
73	n-Propylbenzene	91	8.908	8.908	(0.922)	1471962	50.0000	58.99
74	Bromobenzene	156	8.803	8.803	(0.911)	369273	50.0000	49.96
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1072502	50.0000	58.18

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	891332	50.0000	54.43
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1040667	50.0000	55.75

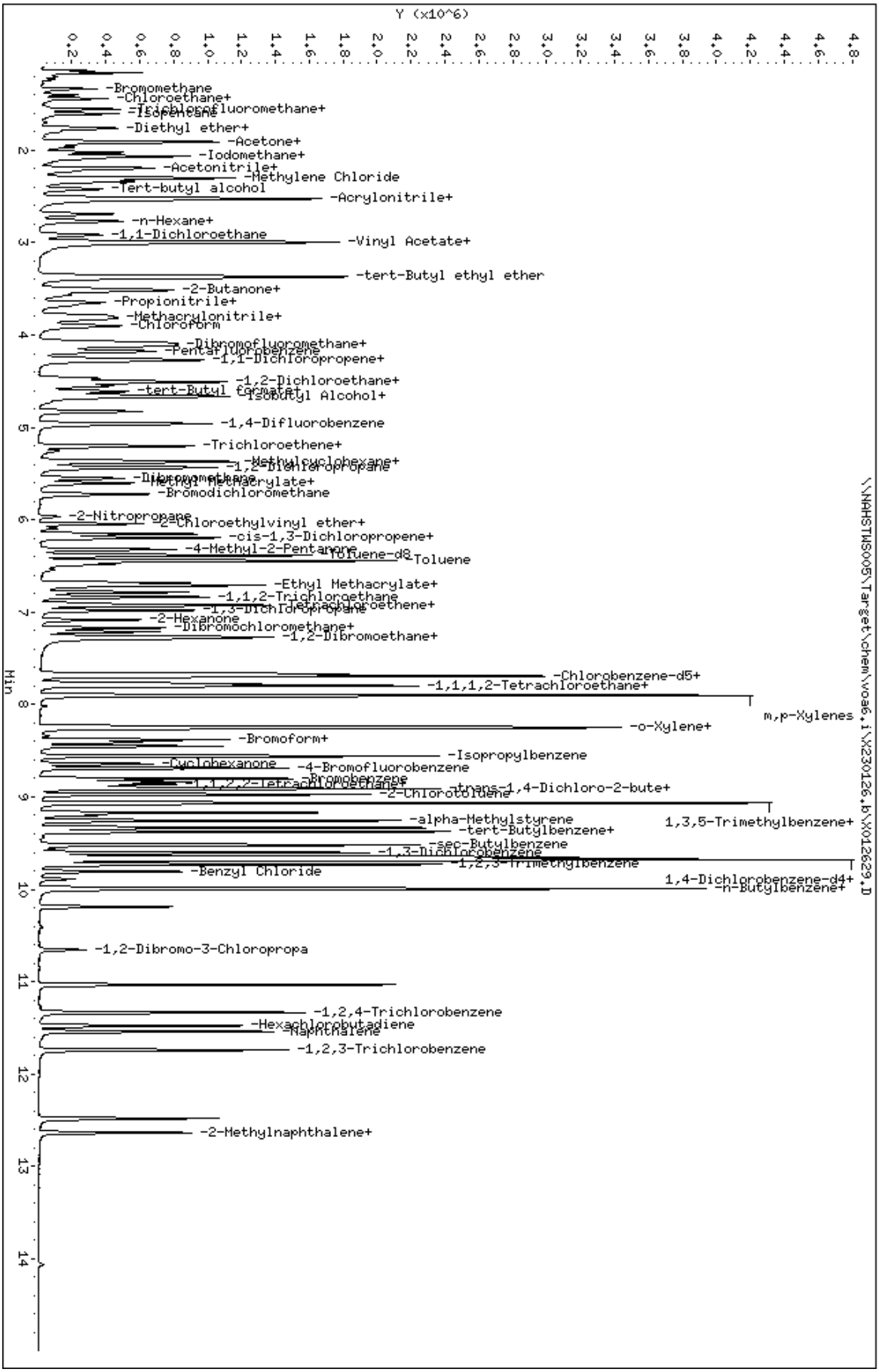
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	910730	50.0000	60.36
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1080032	50.0000	55.68
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1280500	50.0000	63.78
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1134493	50.0000	63.06
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	652432	50.0000	53.18
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	683753	50.0000	51.08
86	Benzyl Chloride	91	9.808	9.808	(1.279)	486671	50.0000	40.31
87	n-Butylbenzene	91	9.992	9.992	(1.034)	992044	50.0000	56.96
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	644459	50.0000	51.01
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	55596	50.0000	48.43
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	445285	50.0000	55.85
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	199983	50.0000	56.51
92	Naphthalene	128	11.540	11.540	(1.194)	948591	50.0000	52.29
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	401139	50.0000	52.53
146	Methyl acetate	43	2.224	2.224	(0.533)	128700	50.0000	52.71
138	Freon TF	101	1.909	1.909	(0.458)	216253	50.0000	54.29
141	Cyclohexane	56	4.117	4.117	(0.987)	336036	50.0000	61.15
142	Tetrahydrofuran	42	3.836	3.836	(0.919)	65465	100.000	96.96
147	Methylcyclohexane	55	5.373	5.373	(1.083)	584257	50.0000	58.23
135	1,4-Dioxane	88	5.594	5.594	(1.340)	55756	1000.00	1124.24
132	n-Butanol	56	5.257	5.257	(1.260)	67995	1000.00	981.71
131	Methyl Acrylate	55	3.683	3.683	(0.882)	216328	50.0000	58.73
133	Ethyl Acrylate	55	5.373	5.373	(1.287)	584257	50.0000	54.77
136	n-Hexane	57	2.768	2.768	(0.663)	239774	50.0000	61.38
139	Diethyl ether	59	1.752	1.752	(0.420)	148049	50.0000	40.83
148	Tert-butyl alcohol	59	2.423	2.423	(0.581)	421700	1000.00	1122.51
149	Isopropyl alcohol	45	2.089	2.089	(0.501)	227839	1000.00	1161.28
156	Diisopropyl ether	45	2.997	2.997	(0.718)	696819	50.0000	49.51
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	373105	50.0000	42.69
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1113071	50.0000	51.31
167	Ethanol	45	1.700	1.700	(0.407)	34652	1000.00	980.36
172	tert-Butyl formate	59	4.612	4.612	(1.105)	324810	100.000	112.82
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	367670	1000.00	993.58
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	770623	50.0000	49.27
175	tert-Butyl ethyl ether	59	3.371	3.371	(0.808)	739412	50.0000	49.44
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	324810	1000.00	1114.71
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	792097	1000.00	1021.08
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	373105	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	167449	50.0000	44.96
152	Amyl alcohol	42	6.899	6.899	(0.900)	76035	1000.00	983.12
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	29426	50.0000	41.88
159	Propylene oxide	43	1.748	1.748	(0.419)	29877	100.000	87.57
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	87426	1000.00	1130.62
162	Butyl acrylate	55	8.248	8.248	(1.076)	528695	50.0000	51.74
182	Epichlorohydrin	57	6.093	6.093	(1.228)	73945	200.000	201.43
M 94	1,2-Dichloroethylene (total)	96				508306	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	514234	50.0000	51.52
130	Ethyl Acetate	43	3.645	3.645	(0.873)	228453	50.0000	53.96
134	Cyclohexanone	55	8.642	8.642	(0.894)	214909	1000.00	1143.73
185	Isoprene	39	1.767	1.767	(0.423)	72305	50.0000	50.02
186	Isopentane	42	1.606	1.606	(0.385)	124626	50.0000	(a)
188	Isopropyl acetate	43	4.672	4.672	(0.942)	662335	50.0000	52.01

187 n-Amyl acetate	43	8.451	8.451 (1.102)	456030	50.0000	50.00
189 n-Butyl acetate	43	7.210	7.210 (0.940)	375429	50.0000	55.87

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	239774	1000.00	1202.38
194 Acetaldehyde	44	1.208	1.208	(0.290)	74310	200.000	218.10
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	527444	50.0000	50.72
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	524024	50.0000	49.50
168 1-Propanol	59	2.997	2.997	(0.718)	78831	1000.00	889.08

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\voa6.i\X230126.b\X012629.D
Date : 26-JAN-2023 18:12
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

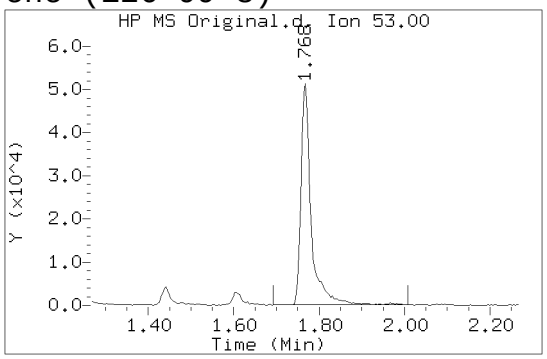
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230126.b\X012629.D
Inj Date : 26-JAN-2023 18:12
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
86810
HEIGHT
51169
13-Feb-2023
13:32
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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13-Feb-2023
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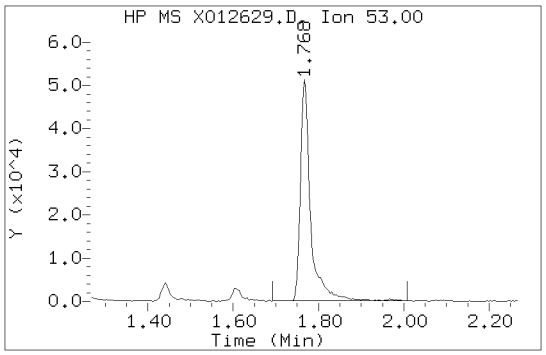

BEFORE

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13-Feb-2023
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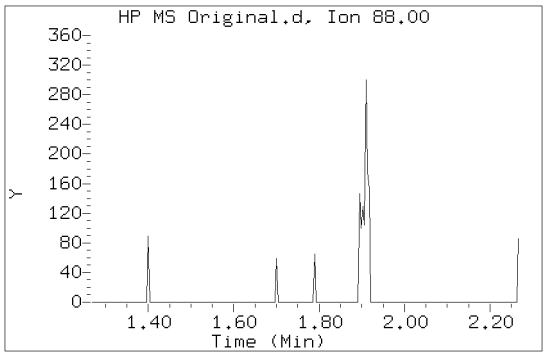

AFTER

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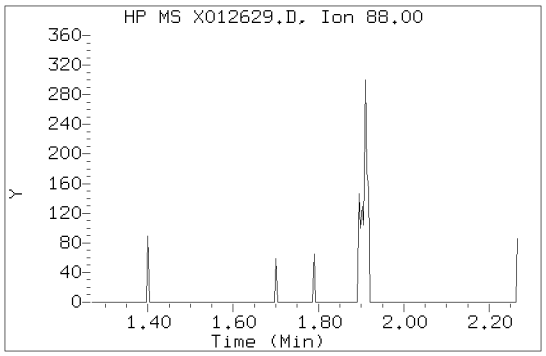


right solutions.
right partner.

Raw Data VOA6 426682

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa6.i\X230127.b\X012701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 27-JAN-2023 07:29
Operator : FT Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230127.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	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	
8.687	8.889	(0.000)	95	153088			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	30112			15.00- 40.00	19.67
8.687	8.889	(0.000)	75	75048			30.00- 60.00	49.02
8.687	8.889	(0.000)	96	10336			5.00- 9.00	6.75
8.687	8.889	(0.000)	173	1311			0.00- 2.00	1.02
8.687	8.889	(0.000)	174	128704			50.00- 0.00	84.07
8.687	8.889	(0.000)	175	10189			5.00- 9.00	7.92
8.687	8.889	(0.000)	176	122336			95.00- 101.00	95.05
8.687	8.889	(0.000)	177	8185			5.00- 9.00	6.69

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.67
75	30.00 - 60.00% of mass 95	49.02
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.86 (1.02)
174	Greater than 50.00% of mass 95	84.07
175	5.00 - 9.00% of mass 174	6.66 (7.92)
176	95.00 - 101.00% of mass 174	79.91 (95.05)
177	5.00 - 9.00% of mass 176	5.35 (6.69)

Data File: X012701.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1340	65.90	73	98.00	633	141.90	159
37.00	7304	66.90	594	102.90	160	142.80	1450
38.00	6490	68.00	15356	103.90	719	143.80	85
39.10	2859	69.00	16166	104.80	319	144.80	76
40.00	1607	70.00	1721	105.90	544	145.80	204
41.00	1042	71.10	255	106.70	166	146.90	93
42.10	962	71.80	797	108.80	76	147.80	348
42.90	701	73.00	6596	109.80	79	148.70	98
44.00	1773	74.00	24856	110.60	115	149.20	86
45.00	1850	75.00	75048	111.10	110	149.80	217
45.90	90	76.00	7059	111.80	126	152.80	91
46.90	1302	76.90	1075	112.90	135	153.70	90
48.10	983	77.90	602	115.00	112	154.80	404
49.00	6074	78.90	4663	115.80	540	156.90	289
50.00	30112	79.90	1316	116.90	1085	158.70	276
51.00	9073	81.00	4744	118.00	400	160.70	186
52.10	567	81.80	978	119.00	680	171.40	60
53.00	159	82.90	369	122.70	56	173.00	1311
53.80	193	84.10	56	123.80	110	173.90	128704
55.00	1936	84.90	144	126.90	128	174.90	10189
55.90	3048	85.90	142	127.90	769	175.90	122336
57.00	4384	86.90	5745	128.70	369	176.90	8185
58.10	454	87.90	5218	129.90	427	177.80	203
59.90	991	90.80	765	130.80	354	185.80	264
61.00	7694	91.90	4514	134.70	185	206.90	112
62.00	6944	93.00	6857	136.90	356	261.80	81
63.00	4986	94.00	17624	138.90	94		
64.00	570	95.00	153088	139.70	107		
64.90	174	96.00	10336	140.80	1490		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012701.D

Date : 27-JAN-2023 07:29

Client ID: BFB

Instrument: voa6.i

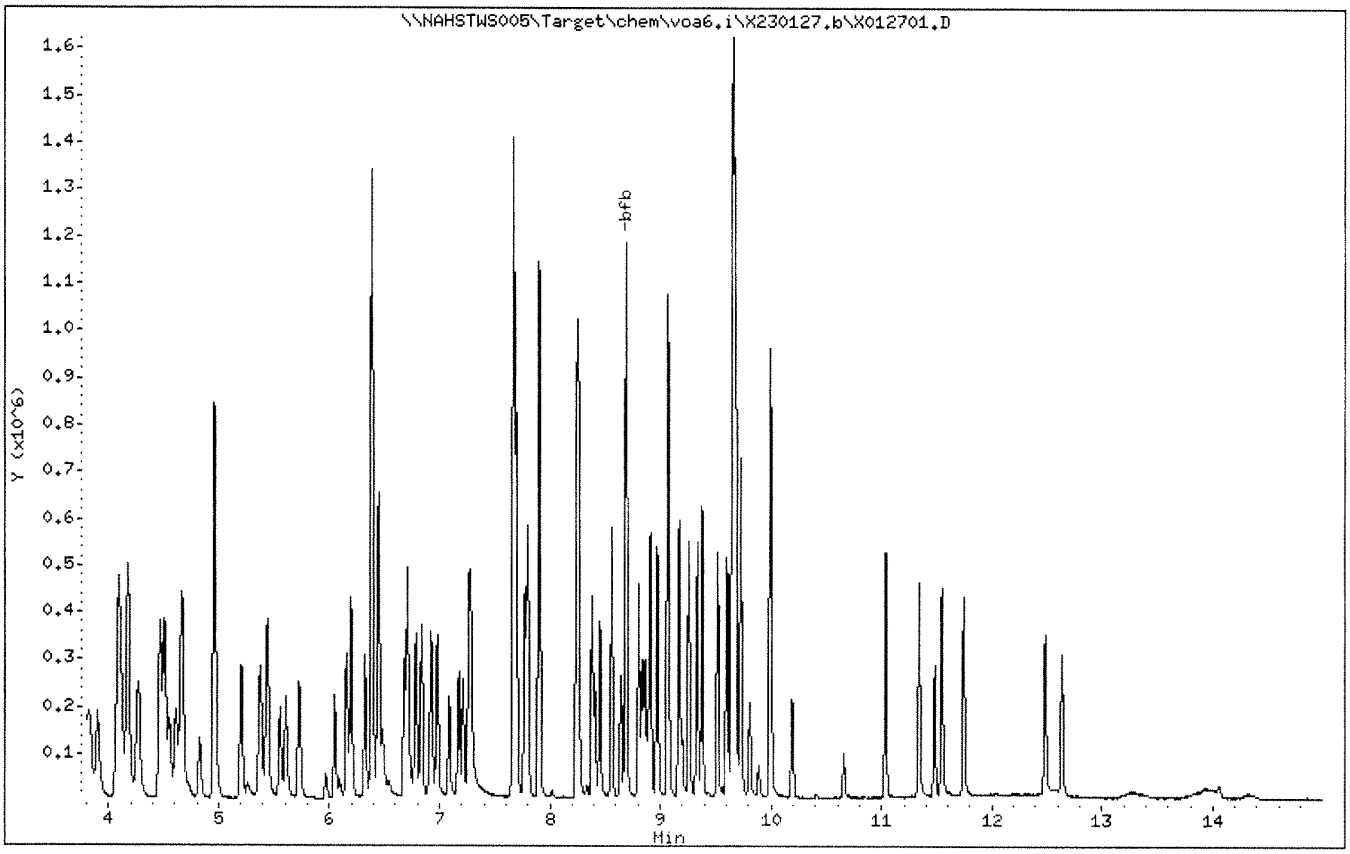
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25



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Date : 27-JAN-2023 07:29

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

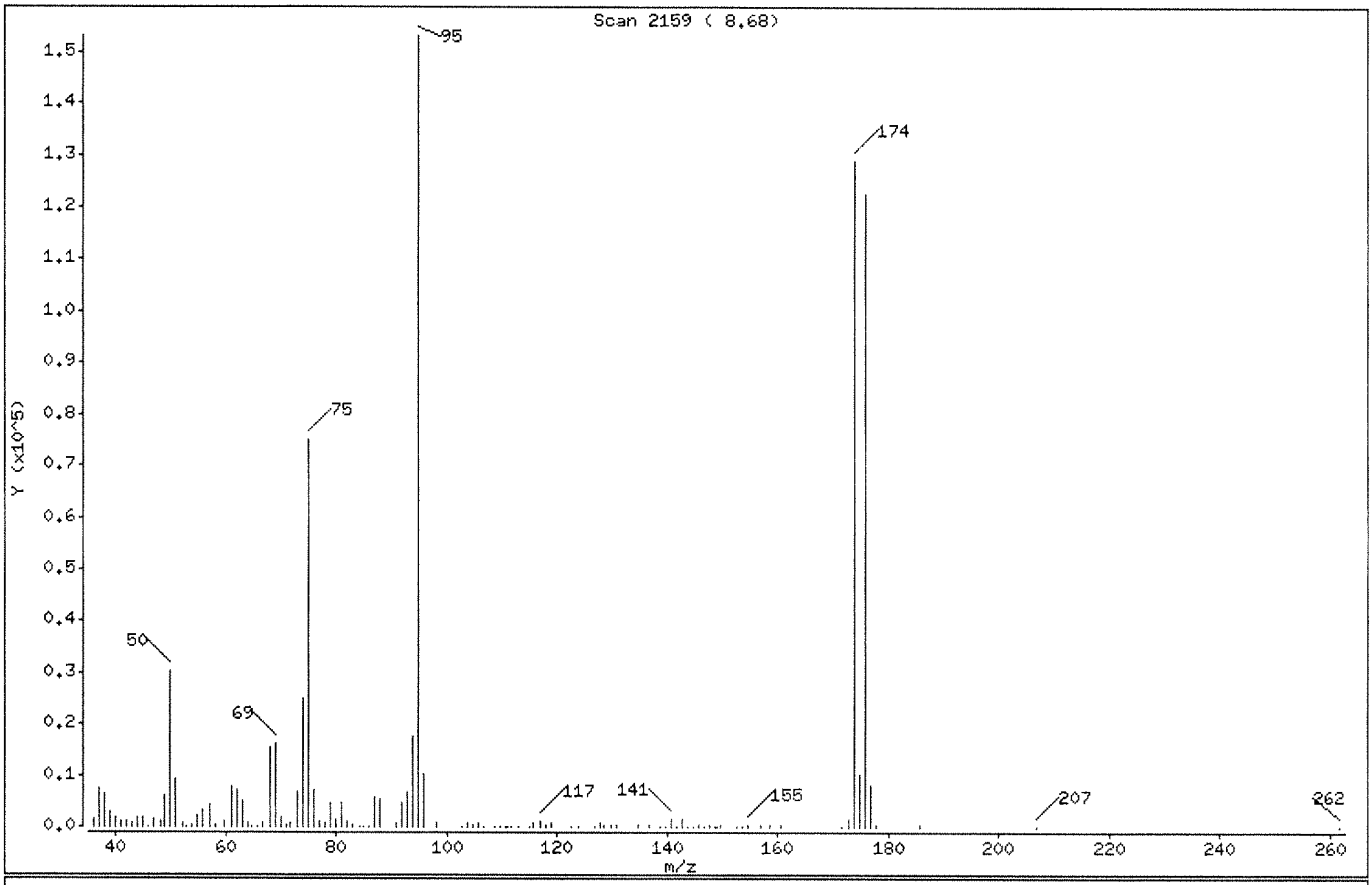
Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.67
75	30.00 - 60.00% of mass 95	49.02
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.86 (1.02)
174	Greater than 50.00% of mass 95	84.07
175	5.00 - 9.00% of mass 174	6.66 (7.92)
176	95.00 - 101.00% of mass 174	79.91 (95.05)
177	5.00 - 9.00% of mass 176	5.35 (6.69)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012701.D

Date : 27-JAN-2023 07:29

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: FT

Column phase: DB624

Column diameter: 0.25

Data File: X012701.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1340	65.90	73	98.00	633	141.90	159
37.00	7304	66.90	594	102.90	160	142.80	1450
38.00	6490	68.00	15356	103.90	719	143.80	85
39.10	2859	69.00	16166	104.80	319	144.80	76
40.00	1607	70.00	1721	105.90	544	145.80	204
41.00	1042	71.10	255	106.70	166	146.90	93
42.10	962	71.80	797	108.80	76	147.80	348
42.90	701	73.00	6596	109.80	79	148.70	98
44.00	1773	74.00	24856	110.60	115	149.20	86
45.00	1850	75.00	75048	111.10	110	149.80	217
45.90	90	76.00	7059	111.80	126	152.80	91
46.90	1302	76.90	1075	112.90	135	153.70	90
48.10	983	77.90	602	115.00	112	154.80	404
49.00	6074	78.90	4663	115.80	540	156.90	289
50.00	30112	79.90	1316	116.90	1085	158.70	276
51.00	9073	81.00	4744	118.00	400	160.70	186
52.10	567	81.80	978	119.00	680	171.40	60
53.00	159	82.90	369	122.70	56	173.00	1311
53.80	193	84.10	56	123.80	110	173.90	128704
55.00	1936	84.90	144	126.90	128	174.90	10189
55.90	3048	85.90	142	127.90	769	175.90	122336
57.00	4384	86.90	5745	128.70	369	176.90	8185
58.10	454	87.90	5218	129.90	427	177.80	203
59.90	991	90.80	765	130.80	354	185.80	264
61.00	7694	91.90	4514	134.70	185	206.90	112
62.00	6944	93.00	6857	136.90	356	261.80	81
63.00	4986	94.00	17624	138.90	94		
64.00	570	95.00	153088	139.70	107		
64.90	174	96.00	10336	140.80	1490		

Data File : \\nahstws005\Target\chem\voa6.i\X230127.b\X012701.D
Inj Date : 27-JAN-2023 07:29
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012702.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-JAN-2023 07:50
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	574580	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	172959	50.0000	43.09
3 Chloromethane	50	1.074	1.074	(0.257)	224682	50.0000	43.51
4 Propionitrile	54	3.642	3.642	(0.872)	282706	500.000	482.20
5 Vinyl Chloride	62	1.137	1.137	(0.273)	228701	50.0000	45.56
6 Bromomethane	94	1.336	1.336	(0.320)	173237	50.0000	45.78
7 Chloroethane	64	1.400	1.400	(0.335)	156083	50.0000	44.67
8 Trichlorofluoromethane	101	1.554	1.554	(0.372)	357653	50.0000	50.91
9 Acrolein	56	1.441	1.441	(0.345)	36882	100.000	94.03
10 Acetone	43	1.966	1.966	(0.471)	145512	100.000	90.25
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	208338	50.0000	47.77
12 Isobutyl Alcohol	43	4.669	4.669	(1.119)	681738	1000.00	1054.87
13 Acetonitrile	39	2.191	2.191	(0.525)	284168	500.000	543.40
14 Allyl Chloride	41	2.195	2.195	(0.526)	504682	50.0000	50.67
15 Iodomethane	142	2.022	2.022	(0.485)	503536	100.000	88.45
16 Acrylonitrile	53	2.528	2.528	(0.606)	152407	100.000	103.04
17 Methylene Chloride	84	2.300	2.300	(0.551)	268612	50.0000	44.90
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	690473	50.0000	48.37
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1178666	100.000	103.30
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	245316	50.0000	50.26

21 Vinyl Acetate	43	2.993	2.993 (0.717)	1324183	100.000	105.68
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	427378	50.0000	49.89

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012702.D Page 2
Report Date: 13-Feb-2023 13:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	89232	50.0000	45.67(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	162780	100.000	95.33
	25 Methacrylonitrile	41	3.814	3.814	(0.914)	197759	50.0000	48.60(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.839)	408531	50.0000	56.17
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	287055	50.0000	48.32
	28 Chloroform	83	3.900	3.900	(0.934)	482149	50.0000	50.22
	29 Bromochloromethane	128	3.788	3.788	(0.908)	149700	50.0000	46.03
$	30 Dibromofluoromethane	113	4.091	4.091	(0.980)	273523	50.0000	49.57
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	417739	50.0000	54.84
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	351132	50.0000	57.60
	33 1,2-Dichloroethane	62	4.549	4.549	(0.917)	378096	50.0000	53.74
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	355340	50.0000	54.58
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	315007	50.0000	54.07
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	858623	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	1011509	50.0000	49.33
	38 Trichloroethene	130	5.201	5.201	(1.048)	296756	50.0000	51.02
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	377566	50.0000	49.06
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	205681	50.0000	52.49
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	236276	100.000	107.92
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	259966	50.0000	47.66
	43 2-Nitropropane	43	5.966	5.966	(1.429)	77027	50.0000	53.08
	44 Dibromomethane	93	5.550	5.550	(1.119)	175807	50.0000	47.42
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	436697	100.000	99.74
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	461805	50.0000	51.10
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	819089	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	985304	50.0000	48.68
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	200237	50.0000	49.52
	50 Toluene	91	6.446	6.446	(0.841)	1124390	50.0000	49.66
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	400285	50.0000	53.37
	52 2-Hexanone	43	7.083	7.083	(0.924)	308701	100.000	103.63
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	211717	50.0000	46.61
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	433656	50.0000	48.50
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	320750	50.0000	48.92
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	256867	50.0000	54.83
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	276284	50.0000	48.65
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	244745	50.0000	58.98(M)
	59 Chlorobenzene	112	7.690	7.690	(1.003)	777986	50.0000	48.44
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	296305	50.0000	49.58
	61 Ethylbenzene	106	7.799	7.799	(1.017)	401130	50.0000	53.02
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1005601	100.000	103.12
	63 o-Xylene	106	8.241	8.241	(1.075)	481373	50.0000	50.01
	64 Styrene	104	8.256	8.256	(1.077)	831295	50.0000	51.53
	66 Bromoform	173	8.410	8.410	(1.097)	219464	50.0000	48.32
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1253834	50.0000	57.02
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	339020	50.0000	46.33
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	386957	50.0000	51.14
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	459092	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	261359	50.0000	51.16(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	92894	50.0000	52.53
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1489909	50.0000	58.58
	74 Bromobenzene	156	8.803	8.803	(0.911)	369688	50.0000	49.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1076698	50.0000	57.31

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	897459	50.0000	53.78
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	1047348	50.0000	55.05

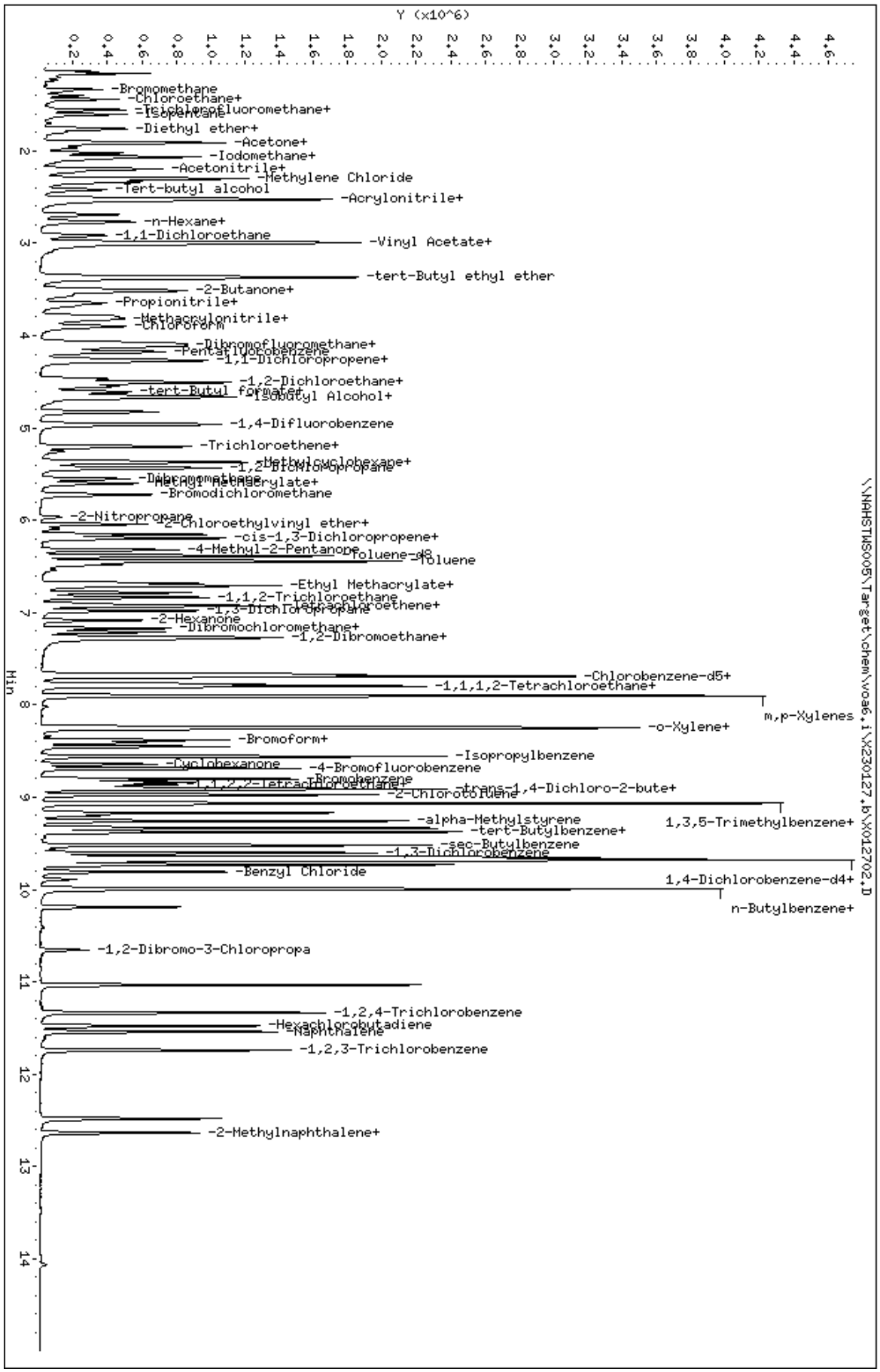
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	904008	50.0000	58.78
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1087814	50.0000	55.03
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1276197	50.0000	62.37
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1134454	50.0000	61.87
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	650779	50.0000	52.05
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	681578	50.0000	49.96
86	Benzyl Chloride	91	9.808	9.808	(1.279)	624900	50.0000	48.81
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1023122	50.0000	57.62
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	633669	50.0000	49.21
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	56259	50.0000	48.09
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	458537	50.0000	56.43
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	216021	50.0000	59.85
92	Naphthalene	128	11.540	11.540	(1.194)	936009	50.0000	50.62
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	406689	50.0000	52.25
146	Methyl acetate	43	2.225	2.225	(0.533)	132660	50.0000	51.30
138	Freon TF	101	1.910	1.910	(0.458)	222192	50.0000	52.67
141	Cyclohexane	56	4.118	4.118	(0.987)	348920	50.0000	59.98
142	Tetrahydrofuran	42	3.836	3.836	(0.919)	68612	100.000	95.93
147	Methylcyclohexane	55	5.373	5.373	(1.083)	602668	50.0000	57.34
135	1,4-Dioxane	88	5.595	5.595	(1.340)	55180	1000.00	1050.59
132	n-Butanol	56	5.253	5.253	(1.259)	76561	1000.00	1038.11
131	Methyl Acrylate	55	3.679	3.679	(0.881)	217730	50.0000	55.81
133	Ethyl Acrylate	55	5.373	5.373	(1.287)	602668	50.0000	53.40
136	n-Hexane	57	2.768	2.768	(0.663)	268561	50.0000	64.91
139	Diethyl ether	59	1.752	1.752	(0.420)	163314	50.0000	42.53
148	Tert-butyl alcohol	59	2.419	2.419	(0.580)	436762	1000.00	1097.78
149	Isopropyl alcohol	45	2.086	2.086	(0.500)	239178	1000.00	1151.10
156	Diisopropyl ether	45	2.993	2.993	(0.717)	727650	50.0000	48.81
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	384020	50.0000	43.11
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1102632	50.0000	49.87
167	Ethanol	45	1.696	1.696	(0.406)	38965	1000.00	1041.12
172	tert-Butyl formate	59	4.609	4.609	(1.104)	337298	100.000	110.62
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	391323	1000.00	1009.75
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	796624	50.0000	48.09
175	tert-Butyl ethyl ether	59	3.368	3.368	(0.807)	772341	50.0000	48.76
176	tert-Amyl alcohol	59	4.609	4.609	(1.104)	337298	1000.00	1093.03
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	824848	1000.00	1014.98
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	384020	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	179614	50.0000	45.54
152	Amyl alcohol	42	6.899	6.899	(0.900)	84934	1000.00	1048.60
158	Dichlorofluoromethane	67	1.524	1.524	(0.365)	31350	50.0000	42.13
159	Propylene oxide	43	1.752	1.752	(0.420)	30937	100.000	85.62
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	89757	1000.00	1108.36
162	Butyl acrylate	55	8.249	8.249	(1.076)	547923	50.0000	51.20
182	Epichlorohydrin	57	6.089	6.089	(1.227)	76450	200.000	198.82
M 94	1,2-Dichloroethylene (total)	96				532371	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	510922	50.0000	50.22
130	Ethyl Acetate	43	3.649	3.649	(0.874)	233184	50.0000	52.00
134	Cyclohexanone	55	8.642	8.642	(0.894)	219146	1000.00	1144.33
185	Isoprene	39	1.763	1.763	(0.423)	81193	50.0000	53.04
186	Isopentane	42	1.606	1.606	(0.385)	138247	50.0000	(a)
188	Isopropyl acetate	43	4.669	4.669	(0.941)	684403	50.0000	51.30

187 n-Amyl acetate	43	8.451	8.451 (1.102)	470486	50.0000	49.25
189 n-Butyl acetate	43	7.210	7.210 (0.940)	383645	50.0000	54.52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	268561	1000.00	1271.65
194 Acetaldehyde	44	1.209	1.209	(0.290)	68241	200.000	186.03
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	527428	50.0000	48.43
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	546137	50.0000	49.26
168 1-Propanol	59	2.989	2.989	(0.716)	82374	1000.00	877.24

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
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Instrument: voa6,i
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Inj Date : 27-JAN-2023 07:50
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LabSampID : CCV

1-Chlorohexane (544-10-5)

Reason Code:

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09-Feb-2023
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Kori
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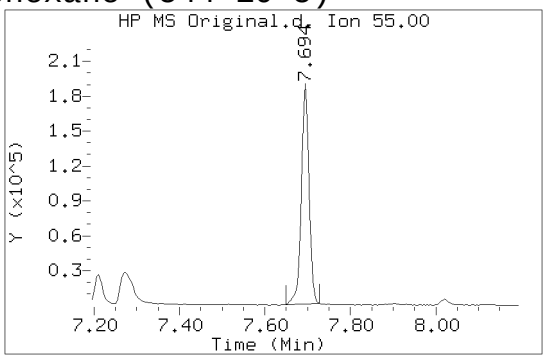

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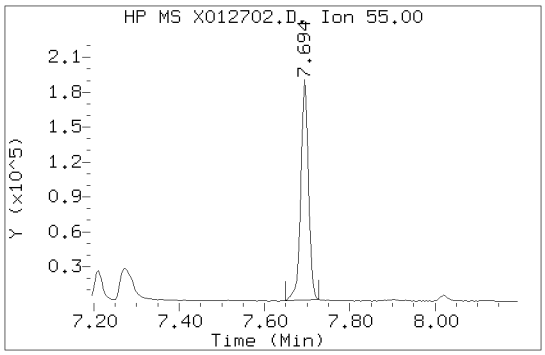

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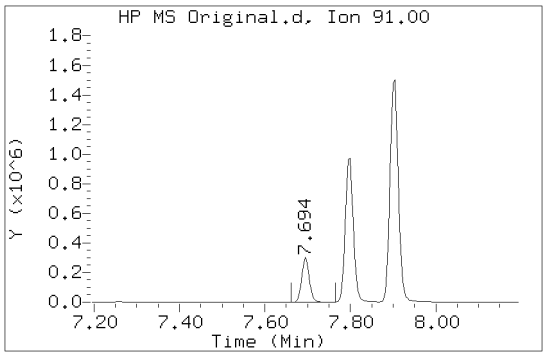

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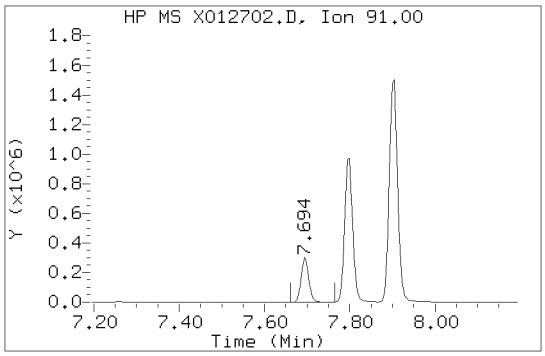

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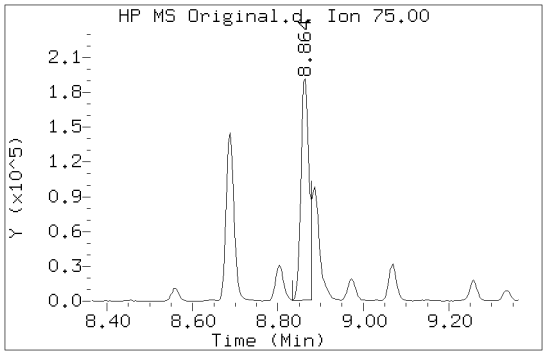

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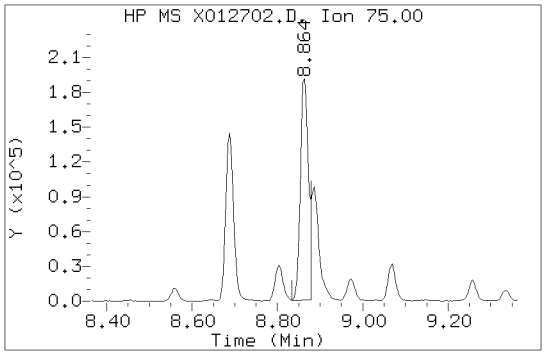

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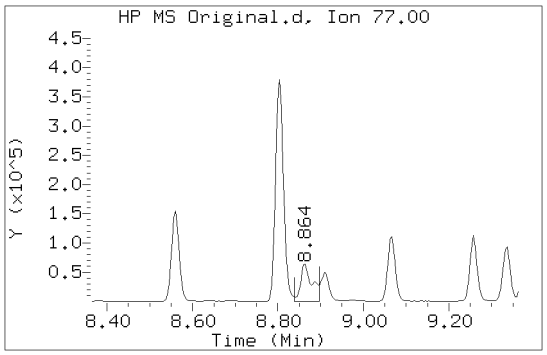

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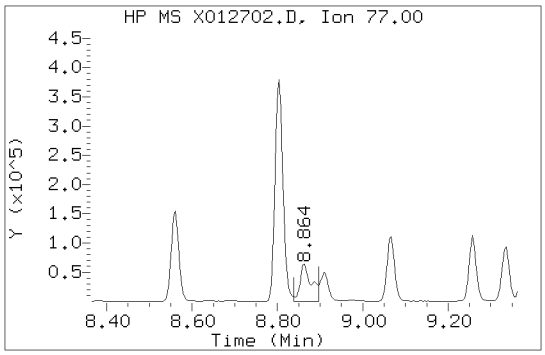

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LabSampID : CCV

Chloroprene (126-99-8)

Reason Code:

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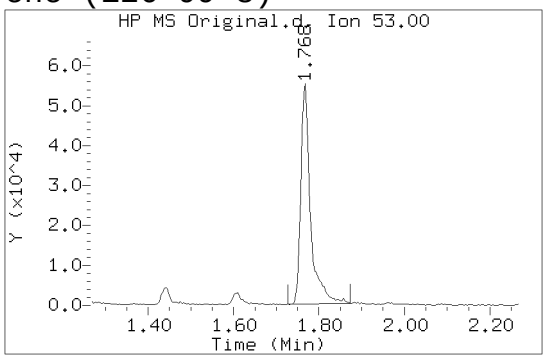

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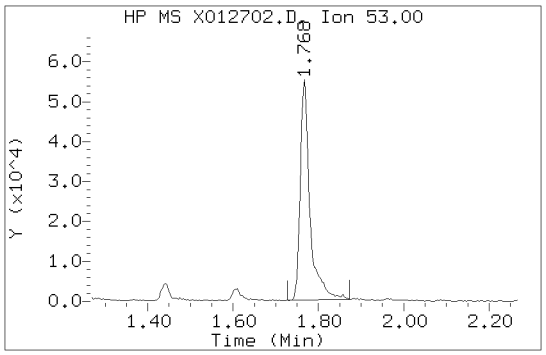

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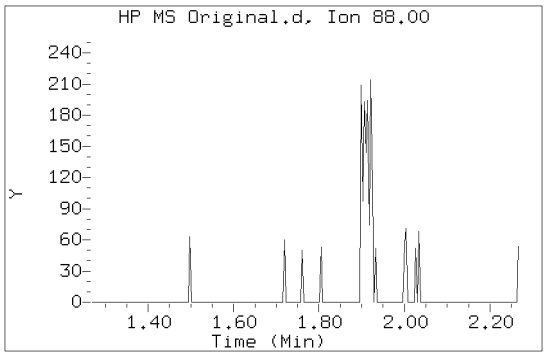

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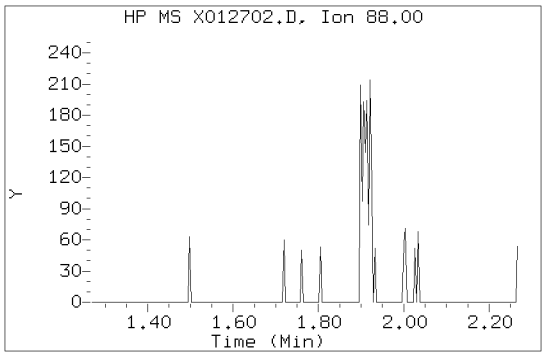

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Report Date: 14-Feb-2023 11:45

ALS Laboratory Group

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Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
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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	4.177	4.177	(1.000)	559520	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	71258	18.4588	18.45
3 Chloromethane	50	1.074	1.074	(0.257)	95070	20.1609	20.16
4 Propionitrile	54	3.649	3.645	(0.873)	121916	213.546	213.54(a)
5 Vinyl Chloride	62	1.137	1.141	(0.272)	93768	19.1844	19.18
6 Bromomethane	94	1.336	1.336	(0.320)	68581	19.6608	19.66
7 Chloroethane	64	1.400	1.400	(0.335)	61244	18.0023	18.00
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	147395	21.5494	21.54
9 Acrolein	56	1.441	1.441	(0.345)	13654	37.4971	37.49
10 Acetone	43	1.966	1.966	(0.471)	62897	40.0422	40.04
11 1,1-Dichloroethene	96	1.910	1.909	(0.457)	86822	20.4455	20.44
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	291752	463.587	463.58(a)
13 Acetonitrile	39	2.194	2.194	(0.525)	124402	244.293	244.29(a)
14 Allyl Chloride	41	2.194	2.194	(0.525)	221209	22.8081	22.80(a)
15 Iodomethane	142	2.022	2.022	(0.484)	205445	39.7418	39.74
16 Acrylonitrile	53	2.532	2.528	(0.606)	67134	46.6129	46.61
17 Methylene Chloride	84	2.299	2.299	(0.550)	116852	20.0610	20.06
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	305871	22.0056	22.00
19 Carbon Disulfide	76	2.063	2.067	(0.494)	482080	43.3900	43.38
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	101580	21.3735	21.37

21 Vinyl Acetate	43	2.993	2.993 (0.716)	557582	45.6973	45.69
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	175007	20.9818	20.98

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012704.D Page 2
Report Date: 14-Feb-2023 11:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	1.771	1.767	(0.424)	36616	19.2469	19.24(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	66676	41.8529	41.85
	25 Methacrylonitrile	41	3.818	3.814	(0.914)	85787	21.6531	21.65(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	166144	23.4604	23.46
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	116730	20.1821	20.18
	28 Chloroform	83	3.904	3.900	(0.935)	200191	21.4140	21.41
	29 Bromochloromethane	128	3.795	3.791	(0.908)	62347	19.6878	19.68
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	265871	49.4857	49.48
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	173731	23.4225	23.42
	32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	145272	24.6274	24.62
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	157919	23.1973	23.19
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	145154	23.0437	23.04
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	320690	56.5177	56.51
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	830877	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	419094	21.1225	21.12
	38 Trichloroethene	130	5.205	5.205	(1.048)	123594	21.9622	21.96
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	154654	20.7694	20.76
	40 Methyl Methacrylate	41	5.606	5.602	(1.342)	88133	23.1010	23.10(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	97244	45.9040	45.90
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	107530	20.3738	20.37
	43 2-Nitropropane	43	5.969	5.965	(1.429)	33242	23.5271	23.52
	44 Dibromomethane	93	5.549	5.549	(1.118)	74023	20.6344	20.63
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	193526	45.9713	45.97
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	187057	21.3902	21.39
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	787598	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	965112	49.5893	49.58
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	91967	23.5050	23.50(a)
	50 Toluene	91	6.445	6.445	(0.841)	467271	21.4645	21.46
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	161219	22.2147	22.21
	52 2-Hexanone	43	7.086	7.083	(0.924)	132175	46.1481	46.14
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	87588	20.0553	20.05
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	179265	20.8537	20.85
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	131480	20.8590	20.85
	56 Tetrachloroethene	164	6.929	6.925	(0.904)	102859	22.8363	22.83
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	116619	21.3570	21.35
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	103019	25.6562	25.65(M)
	59 Chlorobenzene	112	7.694	7.690	(1.003)	315040	20.4029	20.40
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	119792	20.8467	20.84
	61 Ethylbenzene	106	7.799	7.795	(1.017)	164775	22.6542	22.65
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	412242	43.9661	43.96
	63 o-Xylene	106	8.241	8.241	(1.075)	197481	21.3392	21.33
	64 Styrene	104	8.256	8.256	(1.077)	336010	21.6620	21.66
	66 Bromoform	173	8.410	8.410	(1.097)	88588	20.2867	20.28
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	509532	24.0995	24.09
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	142458	20.2504	20.25
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	373310	51.3148	51.31
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	441371	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	111214	22.6451	22.64(M)
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	37068	21.8018	21.80(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	602561	24.6466	24.64
	74 Bromobenzene	156	8.803	8.803	(0.911)	147985	20.4361	20.43
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	435141	24.0935	24.09

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	367769	22.9239	22.92
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	428232	23.4149	23.41

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012704.D Page 3
Report Date: 14-Feb-2023 11:45

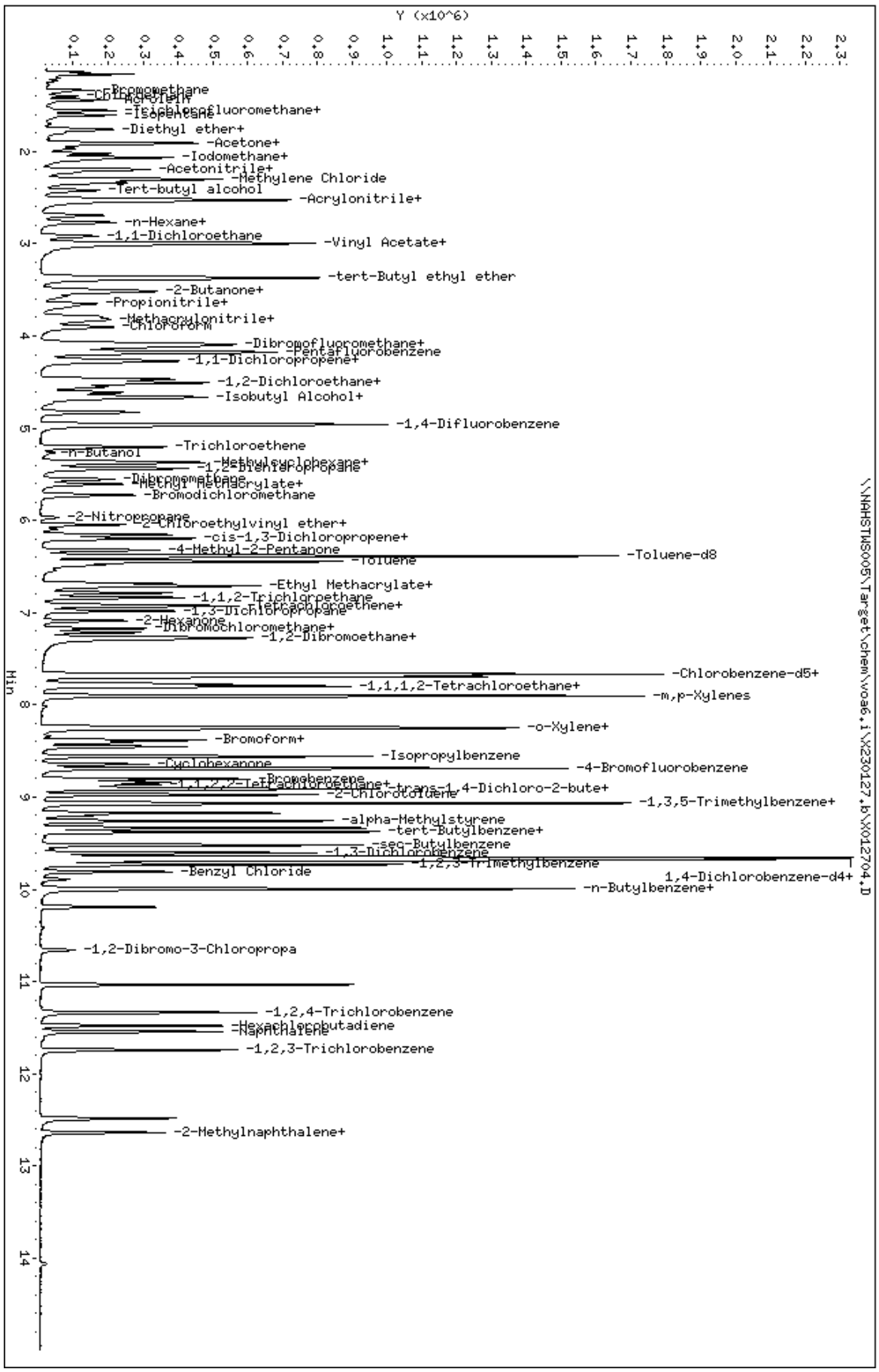
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	368773	24.9445	24.94
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	439792	23.1428	23.14
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	516621	26.2640	26.26
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	458894	26.0344	26.03
83	1,3-Dichlorobenzene	146	9.606	9.605	(0.994)	263971	21.9628	21.96
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	280076	21.3546	21.35
86	Benzyl Chloride	91	9.808	9.808	(1.279)	227712	20.1735	20.17
87	n-Butylbenzene	91	9.992	9.992	(1.034)	406242	24.8405	24.84
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	260451	21.0410	21.04
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	23634	21.0671	21.06
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	178543	22.8556	22.85
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	86284	25.0457	25.04
92	Naphthalene	128	11.544	11.540	(1.195)	377814	21.2569	21.25
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	158677	21.2088	21.20
146	Methyl acetate	43	2.228	2.224	(0.533)	54939	21.8210	21.82
138	Freon TF	101	1.913	1.913	(0.458)	89026	21.6755	21.67
141	Cyclohexane	56	4.118	4.117	(0.986)	135638	24.7043	24.70(M)
142	Tetrahydrofuran	42	3.844	3.836	(0.920)	29941	41.2413	41.24
147	Methylcyclohexane	55	5.377	5.373	(1.083)	260564	25.6193	25.61
135	1,4-Dioxane	88	5.598	5.598	(1.340)	23831	465.941	465.94
132	n-Butanol	56	5.261	5.253	(1.259)	25453	392.671	392.67(a)
131	Methyl Acrylate	55	3.686	3.683	(0.882)	88331	23.2533	23.25
133	Ethyl Acrylate	55	5.377	5.373	(1.287)	260564	24.7279	24.72
136	n-Hexane	57	2.768	2.768	(0.663)	108787	27.0036	27.00
139	Diethyl ether	59	1.752	1.752	(0.419)	67773	18.1279	18.12
148	Tert-butyl alcohol	59	2.423	2.419	(0.580)	191302	493.772	493.77
149	Isopropyl alcohol	45	2.090	2.086	(0.500)	101587	502.074	502.07
156	Diisopropyl ether	45	2.997	2.993	(0.717)	313640	21.6088	21.60
160	2-Methylnaphthalene	142	12.638	12.634	(1.308)	150640	17.5915	17.59
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	472947	22.2519	22.25
167	Ethanol	45	1.696	1.700	(0.406)	16206	442.782	442.78
172	tert-Butyl formate	59	4.612	4.612	(1.104)	176086	59.3085	59.30
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	174855	469.231	469.23
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	351918	21.8198	21.81
175	tert-Butyl ethyl ether	59	3.368	3.371	(0.806)	337116	21.8581	21.85
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	176086	585.974	585.97
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	348012	442.532	442.53
180	1-Methylnaphthalene	142	12.638	12.634	(1.308)	150640		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	74230	19.3303	19.33
152	Amyl alcohol	42	6.903	6.899	(0.900)	31644	406.303	406.30
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	13059	18.0255	18.02
159	Propylene oxide	43	1.752	1.752	(0.419)	13812	39.2553	39.25
161	3-Methyl-1-butanol	55	6.907	6.899	(0.901)	29209	375.108	375.10
162	Butyl acrylate	55	8.252	8.248	(1.076)	229196	22.2775	22.27
182	Epichlorohydrin	57	6.093	6.093	(1.227)	33516	91.4457	91.44
M 94	1,2-Dichloroethylene (total)	96				218310	41.5556	41.55
M 95	Xylenes (total)	106				609723	65.3052	65.30
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	206476	21.1129	21.11
130	Ethyl Acetate	43	3.653	3.645	(0.874)	98369	22.5305	22.53
134	Cyclohexanone	55	8.642	8.642	(0.894)	100380	545.208	545.20
185	Isoprene	39	1.767	1.767	(0.423)	32694	21.9338	21.93
186	Isopentane	42	1.606	1.606	(0.384)	56743		(a)

188 Isopropyl acetate	43	4.672	4.672 (0.941)	293232	22.7157	22.71
187 n-Amyl acetate	43	8.451	8.451 (1.102)	195372	21.2733	21.27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
189 n-Butyl acetate	43	7.214	7.210	(0.941)	163191	24.1206	24.12
150 Allyl alcohol	57	2.768	2.768	(0.663)	108787	528.978	528.97
194 Acetaldehyde	44	1.209	1.209	(0.289)	78697	224.604	224.60
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	234273	22.3724	22.37
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	229682	21.5473	21.54
168 1-Propanol	59	2.993	2.997	(0.716)	35537	388.640	388.63

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VLCSW-230127;VLCSW-230176;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: FT
Column diameter: 0.18

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Inj Date : 27-JAN-2023 08:53
InstruID : voa6.i
LabSampID : VLCSW-230127

1-Chlorohexane (544-10-5)

Reason Code:

BEFORE

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HEIGHT
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13-Feb-2023
13:42
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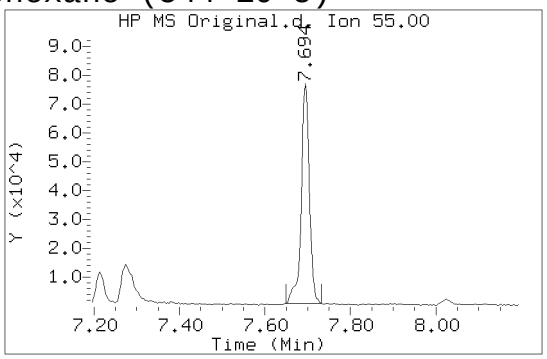

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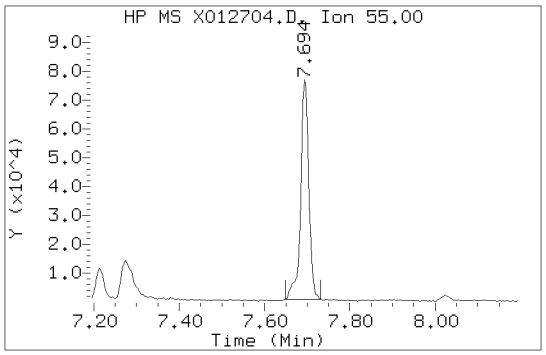

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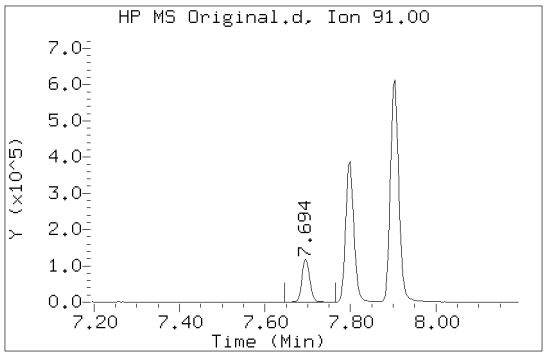

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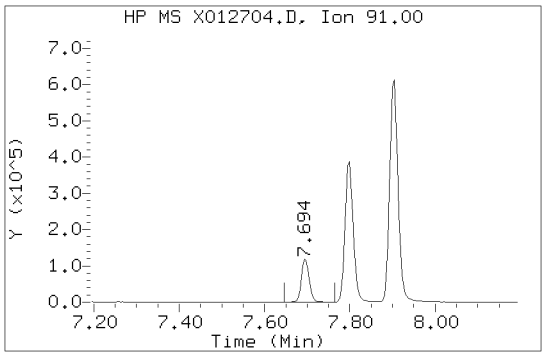

1,2,3-Trichloropropane (96-18-4)

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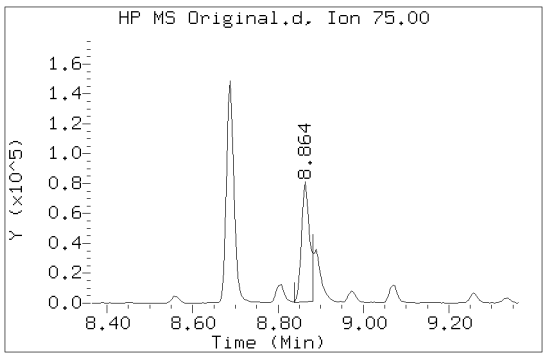

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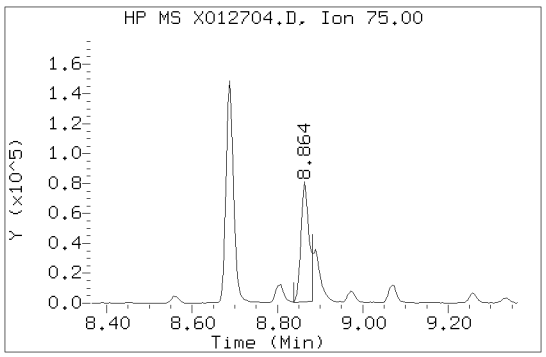

BEFORE

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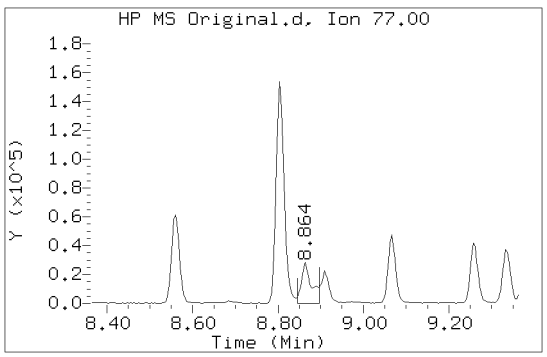

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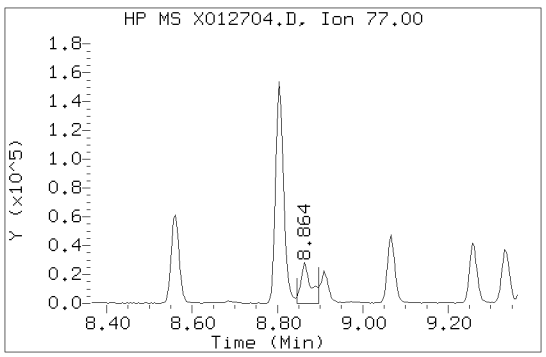

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Inj Date : 27-JAN-2023 08:53
InstruID : voa6.i
LabSampID : VLCSW-230127

Chloroprene (126-99-8)

BEFORE
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AREA
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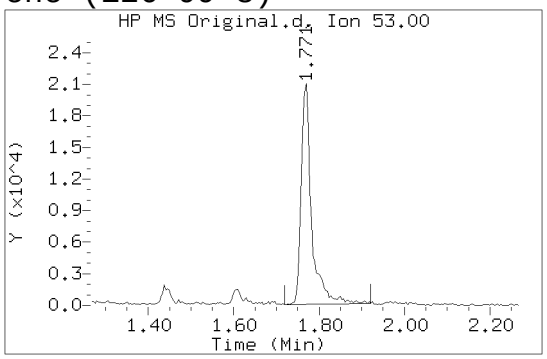
HEIGHT
20969
13-Feb-2023
13:42
linh
pham



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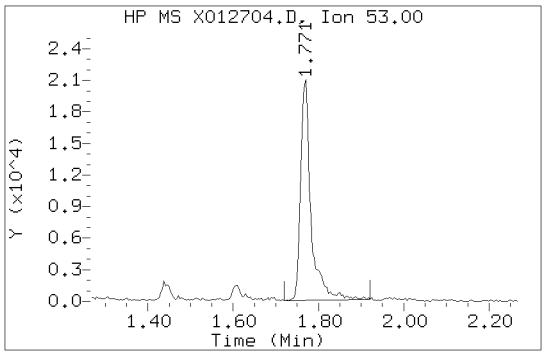

BEFORE
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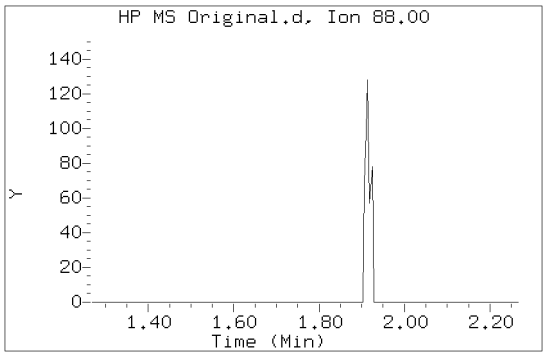

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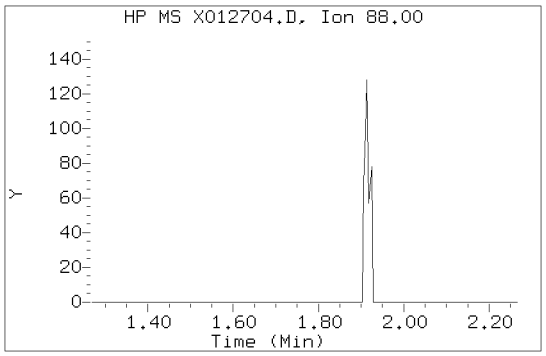

Cyclohexane (110-82-7)

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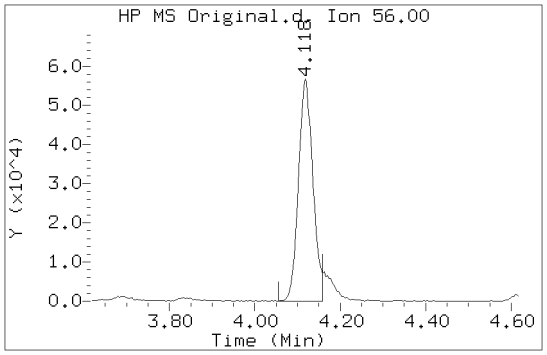

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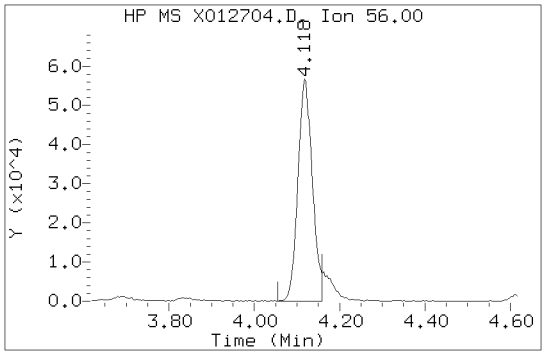

BEFORE
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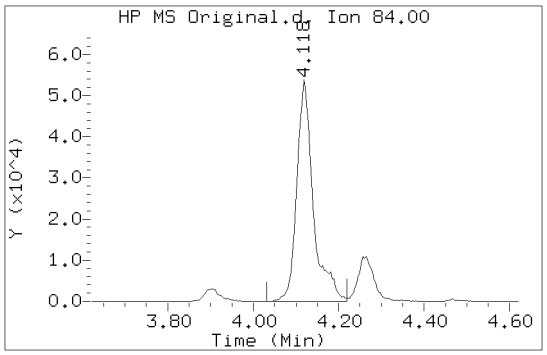

AFTER
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14-Feb-2023
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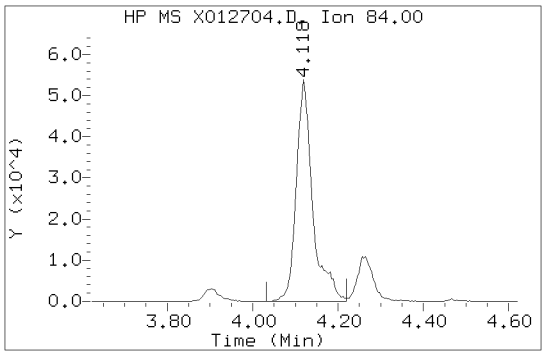

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Inj Date : 27-JAN-2023 08:53
InstruID : voa6.i
LabSampID : VLCSW-230127

Cyclohexane (110-82-7)

Reason Code:

BEFORE

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13-Feb-2023
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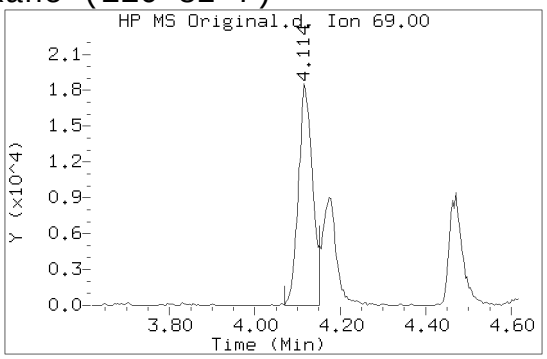

AFTER

MASS
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HEIGHT
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14-Feb-2023
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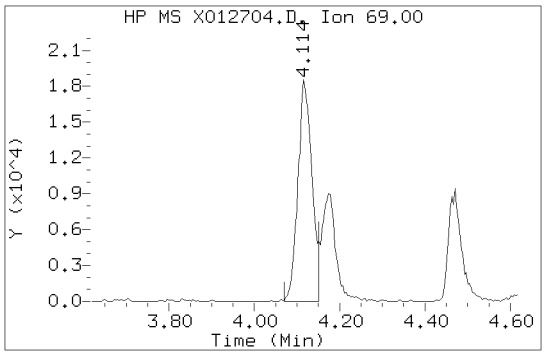


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012706.D Page 1
Report Date: 13-Feb-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012706.D
Lab Smp Id: VBLKW-230127
Inj Date : 27-JAN-2023 09:35
Operator : PC   Inst ID: voa6.i
Smp Info : VBLKW-230127;VBLKW-230127;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i   Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 6   QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

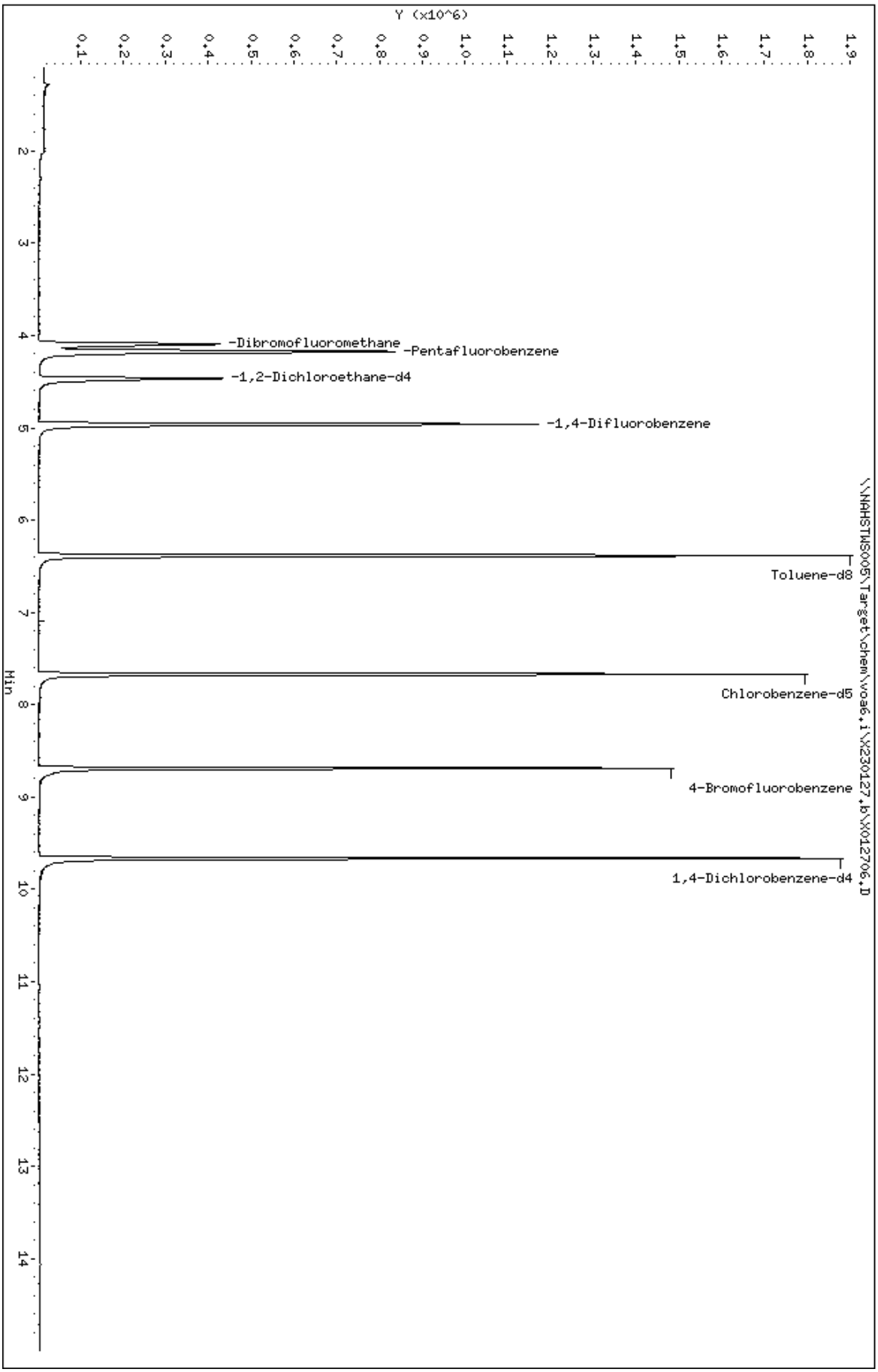
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	682611	50.0000	
$ 30 Dibromofluoromethane	113	4.091	4.091	(0.980)	302222	46.0967	46.09
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	349789	50.5585	50.55
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	969189	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	865426	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1120825	52.4110	52.41
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	413223	51.6926	51.69
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	464238	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012706.D
Date : 27-JAN-2023 09:35
Client ID:
Sample Info: VBLKW-230127;VBLKW-230127;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18



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Inj Date : 27-JAN-2023 09:35
InstruID : voa6.i
LabSampID : VBLKW-230127

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D Page 1
Report Date: 13-Feb-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D
Lab Smp Id: HS23011212-02MS
Inj Date : 27-JAN-2023 10:18
Operator : PC   Inst ID: voa6.i
Smp Info : HS23011212-02MS;HS23011212-02MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i   Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 8   QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.174	4.174	(1.000)	684119	50.0000	
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	64276	13.7207	13.72
3	Chloromethane	50	1.074	1.074	(0.257)	88750	15.9159	15.91(R)
4	Propionitrile	54	3.645	3.642	(0.873)	103634	148.463	148.46(a)
5	Vinyl Chloride	62	1.141	1.137	(0.273)	91236	15.2667	15.26(R)
6	Bromomethane	94	1.336	1.336	(0.320)	64875	15.6104	15.61(R)
7	Chloroethane	64	1.400	1.400	(0.335)	59656	14.3418	14.34(R)
8	Trichlorofluoromethane	101	1.557	1.554	(0.373)	152229	18.2027	18.20
9	Acrolein	56	1.441	1.441	(0.345)	12065	27.8812	27.88
10	Acetone	43	1.970	1.966	(0.472)	47544	24.7422	24.74
11	1,1-Dichloroethene	96	1.910	1.910	(0.458)	86096	16.5819	16.58(R)
12	Isobutyl Alcohol	43	4.672	4.669	(1.119)	251038	326.242	326.24(a)
13	Acetonitrile	39	2.194	2.191	(0.526)	101118	162.404	162.40(a)
14	Allyl Chloride	41	2.194	2.195	(0.526)	181988	15.3466	15.34(a)
15	Iodomethane	142	2.022	2.022	(0.485)	192870	31.3816	31.38
16	Acrylonitrile	53	2.532	2.528	(0.607)	55192	31.3418	31.34
17	Methylene Chloride	84	2.299	2.300	(0.551)	106236	14.9167	14.91(R)
18	Methyl tert-butyl ether	73	2.528	2.528	(0.606)	252474	14.8558	14.85
19	Carbon Disulfide	76	2.063	2.063	(0.494)	464779	34.2137	34.21(R)
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	99248	17.0794	17.07(R)

21 Vinyl Acetate	43	2.993	2.993 (0.717)	418689	28.0645	28.06
22 1,1-Dichloroethane	63	2.914	2.918 (0.698)	169326	16.6033	16.60(R)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D Page 2
Report Date: 13-Feb-2023 13:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	33680	14.4792	14.47(M)
24	2-Butanone	43	3.574	3.570	(0.856)	58057	30.6762	30.67(R)
25	Methacrylonitrile	41	3.821	3.814	(0.916)	68129	14.0642	14.06(a)
26	2,2-Dichloropropane	77	3.506	3.503	(0.840)	120403	13.9050	13.90
27	cis-1,2-Dichloroethene	96	3.521	3.522	(0.844)	111685	15.7929	15.79(R)
28	Chloroform	83	3.900	3.900	(0.934)	201976	17.6700	17.67(R)
29	Bromochloromethane	128	3.791	3.788	(0.908)	56940	14.7056	14.70
$ 30	Dibromofluoromethane	113	4.091	4.091	(0.980)	304142	46.2880	46.28(RR)
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	174494	19.2407	19.24(R)
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	141842	20.7469	20.74
33	1,2-Dichloroethane	62	4.552	4.549	(0.918)	149856	18.9928	18.99(R)
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	148293	20.3122	20.31(R)
$ 35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	353528	50.9840	50.98(RR)
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	962994	50.0000	
37	Benzene	78	4.507	4.507	(0.909)	405268	17.6234	17.62(R)
38	Trichloroethene	130	5.205	5.201	(1.049)	119310	18.2923	18.29(R)
39	Bromodichloromethane	83	5.726	5.722	(1.154)	145999	16.9171	16.91(R)
40	Methyl Methacrylate	41	5.606	5.602	(1.343)	69713	14.9448	14.94(a)
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	101828	16.6465	16.64(R)
43	2-Nitropropane	43	5.966	5.966	(1.429)	26193	15.1618	15.16
44	Dibromomethane	93	5.550	5.550	(1.119)	69731	16.7712	16.77
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	178485	37.9337	37.93(R)
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	162991	16.0811	16.08(R)
* 47	Chlorobenzene-d5	117	7.667	7.668	(1.000)	880296	50.0000	
$ 48	Toluene-d8	98	6.385	6.386	(0.833)	1123194	51.6346	51.63(RR)
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	67994	14.9938	14.99(a)
50	Toluene	91	6.445	6.446	(0.841)	448879	18.4484	18.44(R)
51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	138153	16.4247	16.42(R)
52	2-Hexanone	43	7.086	7.083	(0.924)	117013	36.5523	36.55(R)
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	81079	16.6100	16.60(R)
54	1,3-Dichloropropane	76	6.981	6.978	(0.911)	166022	17.2795	17.27
55	Dibromochloromethane	129	7.173	7.173	(0.935)	121183	17.2009	17.20(R)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	99509	19.7662	19.76(R)
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	105535	17.2919	17.29
58	1-Chlorohexane	55	7.694	7.694	(1.551)	97737	21.0014	21.00
59	Chlorobenzene	112	7.694	7.690	(1.003)	302409	17.5225	17.52(R)
60	1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	112217	17.4721	17.47
61	Ethylbenzene	106	7.799	7.799	(1.017)	156461	19.2459	19.24(R)
62	m,p-Xylenes	106	7.904	7.904	(1.031)	391557	37.3625	37.36(R)
63	o-Xylene	106	8.241	8.241	(1.075)	186095	17.9913	17.99(R)
64	Styrene	104	8.260	8.256	(1.077)	310961	17.9361	17.93(R)
66	Bromoform	173	8.410	8.410	(1.097)	80619	16.5177	16.51(R)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	492383	20.8360	20.83
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	131204	16.8680	16.86(R)
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	423059	52.0286	52.02(RR)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	488016	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	137320	25.2882	25.28
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	30649	16.1282	16.12(a)
73	n-Propylbenzene	91	8.912	8.908	(0.922)	572143	21.1656	21.16
74	Bromobenzene	156	8.803	8.803	(0.911)	140662	17.5682	17.56
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	410854	20.5744	20.57
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	351432	19.8118	19.81

77 4-Chlorotoluene	91	9.069	9.070 (0.939)	396598	19.6125	19.61
78 tert-Butylbenzene	119	9.336	9.336 (0.966)	359902	22.0176	22.01

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012708.D Page 3
Report Date: 13-Feb-2023 13:49

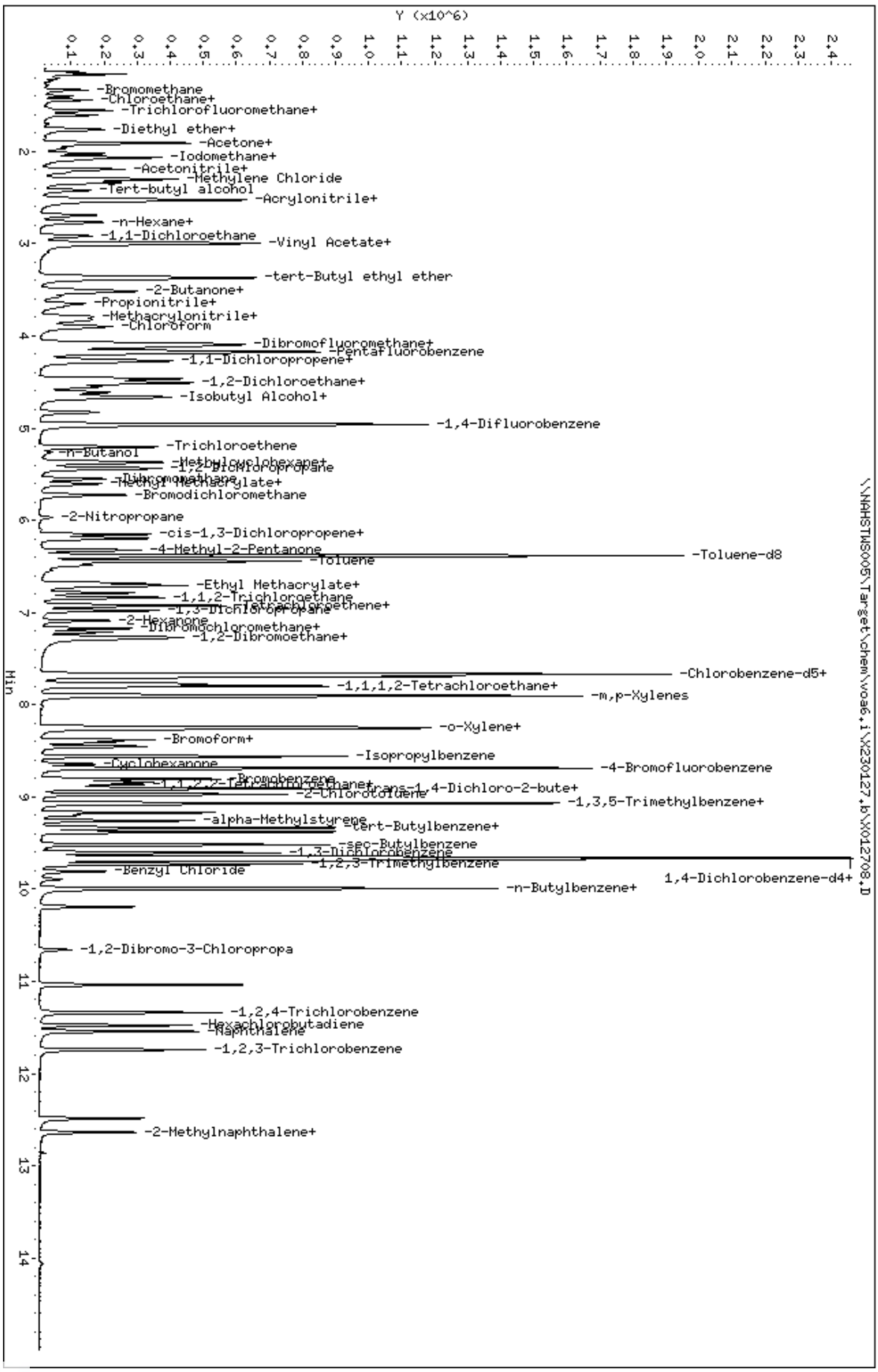
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	410436	19.5337	19.53
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	490204	22.5391	22.53
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	421583	21.6315	21.63
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	247129	18.5962	18.59
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	262051	18.0706	18.07
86	Benzyl Chloride	91	9.808	9.808	(1.279)	121958	11.0695	11.06
87	n-Butylbenzene	91	9.992	9.992	(1.034)	359136	20.2171	20.21
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	244353	17.8537	17.85
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	20762	16.7571	16.75
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	159775	18.4982	18.49
91	Hexachlorobutadiene	225	11.476	11.480	(1.188)	75683	19.8822	19.88
92	Naphthalene	128	11.544	11.540	(1.195)	350828	17.8520	17.85
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	148030	17.8946	17.89
146	Methyl acetate	43	2.228	2.225	(0.534)	44722	14.5278	14.52
138	Freon TF	101	1.910	1.910	(0.458)	89125	17.7474	17.74
141	Cyclohexane	56	4.118	4.118	(0.987)	154447	23.0934	23.09
142	Tetrahydrofuran	42	3.840	3.836	(0.920)	24600	26.6743	26.67
147	Methylcyclohexane	55	5.377	5.373	(1.084)	208481	17.6861	17.68
135	1,4-Dioxane	88	5.598	5.595	(1.341)	21374	341.789	341.78
132	n-Butanol	56	5.265	5.253	(1.261)	23188	303.986	303.98(a)
131	Methyl Acrylate	55	3.686	3.679	(0.883)	72303	15.5672	15.56
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	208481	16.8142	16.81
136	n-Hexane	57	2.768	2.768	(0.663)	92121	18.7020	18.70
139	Diethyl ether	59	1.752	1.752	(0.420)	56678	12.3991	12.39
148	Tert-butyl alcohol	59	2.423	2.419	(0.581)	175495	370.472	370.47
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	94629	382.506	382.50
156	Diisopropyl ether	45	2.993	2.993	(0.717)	256538	14.4556	14.45
160	2-Methylnaphthalene	142	12.638	12.635	(1.308)	129295	13.6557	13.65
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	361099	15.3656	15.36
167	Ethanol	45	1.696	1.696	(0.406)	15461	344.766	344.76
172	tert-Butyl formate	59	4.612	4.609	(1.105)	132566	36.5181	36.51
173	3,3-Dimethyl-1-butanol	57	7.289	7.285	(0.951)	127144	305.267	305.26
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	288151	14.6121	14.61
175	tert-Butyl ethyl ether	59	3.368	3.368	(0.807)	271998	14.4239	14.42
176	tert-Amyl alcohol	59	4.612	4.609	(1.105)	132566	360.803	360.80
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	252534	277.066	277.06
180	1-Methylnaphthalene	142	12.638	12.635	(1.308)	129295		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	70597	15.0359	15.03
152	Amyl alcohol	42	6.910	6.899	(0.901)	25238	289.928	289.92
158	Dichlorofluoromethane	67	1.523	1.524	(0.365)	11823	13.3471	13.34
159	Propylene oxide	43	1.752	1.752	(0.420)	14557	33.8375	33.83
161	3-Methyl-1-butanol	55	6.910	6.899	(0.901)	28290	325.049	325.04
162	Butyl acrylate	55	8.252	8.249	(1.076)	176228	15.3254	15.32
182	Epichlorohydrin	57	6.101	6.089	(1.230)	5468	15.0198	15.01
M 94	1,2-Dichloroethylene (total)	96				210933	32.8723	32.87
M 95	Xylenes (total)	106				577652	55.3538	55.35(R)
145	alpha-Methylstyrene	118	9.261	9.257	(0.958)	112960	10.4466	10.44
130	Ethyl Acetate	43	3.653	3.649	(0.875)	81844	15.3315	15.33
134	Cyclohexanone	55	8.646	8.642	(0.895)	57483	282.374	282.37(a)
185	Isoprene	39	1.767	1.763	(0.423)	26043	14.2896	14.28
186	Isopentane	42	1.606	1.606	(0.385)	43374		(a)
188	Isopropyl acetate	43	4.672	4.669	(0.942)	253597	16.9501	16.95

187 n-Amyl acetate	43	8.451	8.451 (1.102)	154269	15.0289	15.02
189 n-Butyl acetate	43	7.214	7.210 (0.941)	125117	16.5456	16.54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	92121	366.356	366.35
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	171815	14.6800	14.68
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	165496	13.8909	13.89
168 1-Propanol	59	2.993	2.989	(0.717)	30410	271.999	271.99

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.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Min
1 2 3 4 5 6 7 8 9 10 11 12 13 14
-Bromomethane
-Chloroethane+
-Trichlorofluoromethane+
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-n-Butanol
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-Tetrachloroethene+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene+
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Purge Volume: 5.0
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Instrument: voa6.i
Operator: PC
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Page 1

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Inj Date : 27-JAN-2023 10:18
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Chloroprene (126-99-8)

Reason Code:

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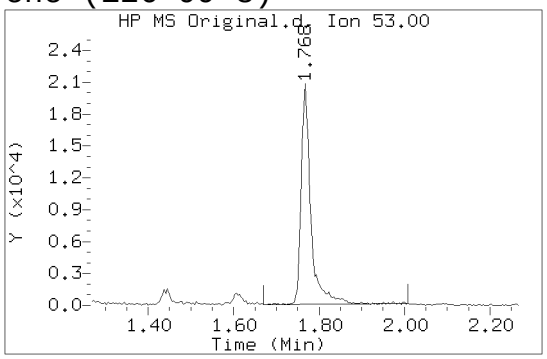
09-Feb-2023
15:36
Kori
Bagsby



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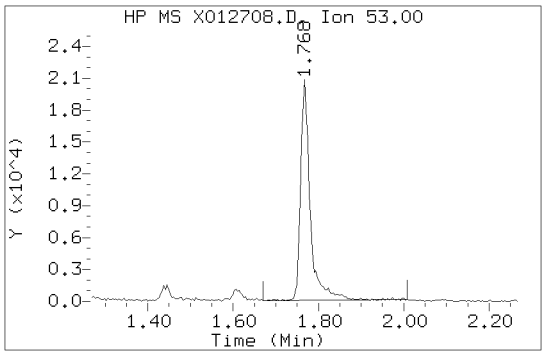

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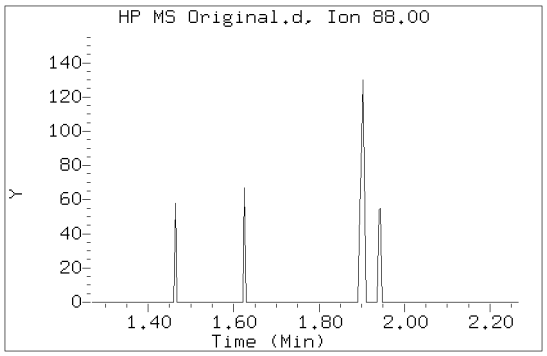

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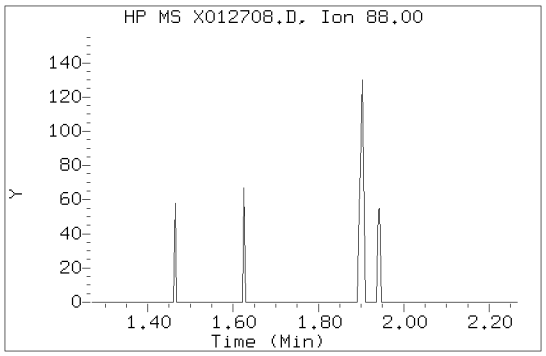

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Report Date: 14-Feb-2023 11:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D
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Inj Date : 27-JAN-2023 10:39
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Smp Info : HS23011212-02MSD;HS23011212-02MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
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Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 8   QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.174	4.177	(1.000)	684294	50.0000	
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	60228	12.8781	12.87
3	Chloromethane	50	1.074	1.074	(0.257)	83475	15.0981	15.09(R)
4	Propionitrile	54	3.649	3.645	(0.874)	105930	151.713	151.71(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	82810	13.8532	13.85(R)
6	Bromomethane	94	1.336	1.336	(0.320)	63563	15.3269	15.32(R)
7	Chloroethane	64	1.400	1.400	(0.335)	56895	13.6745	13.67(R)
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	140807	16.8326	16.83
9	Acrolein	56	1.441	1.441	(0.345)	11609	26.9280	26.92
10	Acetone	43	1.970	1.966	(0.472)	49174	25.5850	25.58
11	1,1-Dichloroethene	96	1.910	1.909	(0.458)	80268	15.4555	15.45(R)
12	Isobutyl Alcohol	43	4.669	4.672	(1.119)	242031	314.457	314.45(a)
13	Acetonitrile	39	2.194	2.194	(0.526)	94503	151.741	151.74(a)
14	Allyl Chloride	41	2.194	2.194	(0.526)	177740	14.9846	14.98(a)
15	Iodomethane	142	2.022	2.022	(0.485)	194811	31.6536	31.65
16	Acrylonitrile	53	2.532	2.528	(0.607)	55360	31.4291	31.42
17	Methylene Chloride	84	2.299	2.299	(0.551)	100943	14.1699	14.16(R)
18	Methyl tert-butyl ether	73	2.528	2.528	(0.606)	251323	14.7843	14.78
19	Carbon Disulfide	76	2.063	2.067	(0.494)	435768	32.0700	32.06(R)
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	91770	15.7885	15.78(R)

21 Vinyl Acetate	43	2.993	2.993 (0.717)	412267	27.6270	27.62
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	165006	16.1756	16.17(R)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D Page 2
Report Date: 14-Feb-2023 11:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	29950	12.8724	12.87(M)
24	2-Butanone	43	3.574	3.570	(0.856)	58838	31.0410	31.04(R)
25	Methacrylonitrile	41	3.821	3.814	(0.916)	69614	14.3671	14.36(a)
26	2,2-Dichloropropane	77	3.503	3.503	(0.839)	113010	13.0479	13.04
27	cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	107626	15.2150	15.21(R)
28	Chloroform	83	3.900	3.900	(0.934)	196876	17.2194	17.21(R)
29	Bromochloromethane	128	3.791	3.791	(0.908)	57282	14.7901	14.79
$ 30	Dibromofluoromethane	113	4.091	4.095	(0.980)	299860	45.6223	45.62(RR)
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	163427	18.0157	18.01(R)
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	131242	19.2478	19.24
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	147467	18.7400	18.74(R)
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	141910	19.4898	19.48(R)
$ 35	1,2-Dichloroethane-d4	65	4.466	4.470	(1.070)	349106	50.3369	50.33(RR)
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	960426	50.0000	
37	Benzene	78	4.507	4.507	(0.909)	392045	17.0939	17.09(R)
38	Trichloroethene	130	5.205	5.205	(1.049)	114207	17.5567	17.55(R)
39	Bromodichloromethane	83	5.726	5.722	(1.154)	141963	16.4934	16.49(R)
40	Methyl Methacrylate	41	5.606	5.602	(1.343)	68372	14.6536	14.65(a)
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	98782	16.1917	16.19(R)
43	2-Nitropropane	43	5.969	5.965	(1.430)	25558	14.7904	14.79
44	Dibromomethane	93	5.553	5.549	(1.119)	67980	16.3938	16.39
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	177579	37.8915	37.89(R)
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	160778	15.9052	15.90(R)
* 47	Chlorobenzene-d5	117	7.668	7.667	(1.000)	876804	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	1120042	51.6948	51.69(RR)
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	66208	14.6390	14.63(a)
50	Toluene	91	6.445	6.445	(0.841)	430041	17.7445	17.74(R)
51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	136606	16.2842	16.28(R)
52	2-Hexanone	43	7.086	7.083	(0.924)	118789	37.2548	37.25(R)
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	82207	16.9081	16.90(R)
54	1,3-Dichloropropane	76	6.978	6.981	(0.910)	165034	17.2450	17.24
55	Dibromochloromethane	129	7.173	7.173	(0.935)	118511	16.8886	16.88(R)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	95166	18.9788	18.97(R)
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	107632	17.7058	17.70
58	1-Chlorohexane	55	7.694	7.694	(1.551)	95155	20.5012	20.50
59	Chlorobenzene	112	7.694	7.690	(1.003)	295669	17.2002	17.20(R)
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	108946	17.0304	17.03
61	Ethylbenzene	106	7.799	7.795	(1.017)	151930	18.7630	18.76(R)
62	m,p-Xylenes	106	7.904	7.904	(1.031)	378607	36.2707	36.27(R)
63	o-Xylene	106	8.241	8.241	(1.075)	182457	17.7098	17.70(R)
64	Styrene	104	8.260	8.256	(1.077)	302006	17.4890	17.48(R)
66	Bromoform	173	8.410	8.410	(1.097)	79870	16.4294	16.42(R)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	473729	20.1265	20.12
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	129843	17.0902	17.09(R)
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	419528	51.8002	51.80(RR)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	476674	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	138542	26.1203	26.12
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	30677	16.2072	16.20(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	547572	20.7386	20.73
74	Bromobenzene	156	8.803	8.803	(0.911)	137522	17.5847	17.58
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	402384	20.6297	20.62
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	337074	19.4545	19.45

77 4-Chlorotoluene	91	9.070	9.069 (0.939)	389124	19.7007	19.70
78 tert-Butylbenzene	119	9.336	9.336 (0.966)	344786	21.5947	21.59

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D Page 3
Report Date: 14-Feb-2023 11:46

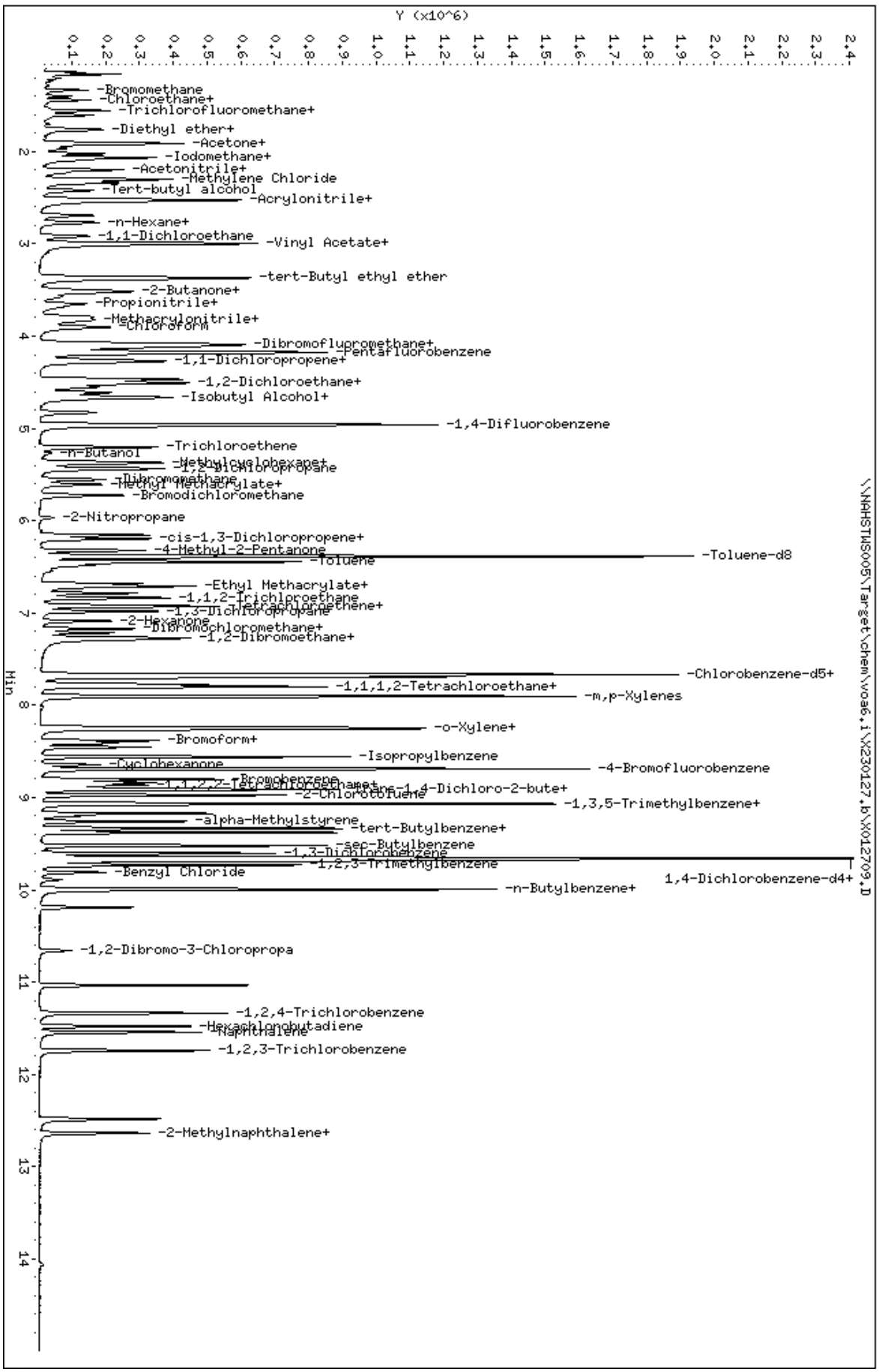
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	399774	19.4790	19.47
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	474896	22.3548	22.35
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	412155	21.6510	21.65
83	1,3-Dichlorobenzene	146	9.606	9.605	(0.994)	241168	18.5795	18.57
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	257086	18.1500	18.15
86	Benzyl Chloride	91	9.812	9.808	(1.280)	120272	10.9866	10.98
87	n-Butylbenzene	91	9.995	9.992	(1.035)	345219	19.9242	19.92
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	240537	17.9930	17.99
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	20995	17.3450	17.34
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	161074	19.0923	19.09
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	73507	19.7703	19.77
92	Naphthalene	128	11.544	11.540	(1.195)	349302	18.1972	18.19
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	147633	18.2712	18.27
146	Methyl acetate	43	2.228	2.224	(0.534)	44128	14.3311	14.33
138	Freon TF	101	1.910	1.913	(0.458)	85890	17.0988	17.09
141	Cyclohexane	56	4.118	4.117	(0.987)	147778	22.1453	22.14
142	Tetrahydrofuran	42	3.844	3.836	(0.921)	24929	27.0657	27.06
147	Methylcyclohexane	55	5.377	5.373	(1.084)	200140	17.0239	17.02
135	1,4-Dioxane	88	5.595	5.598	(1.340)	21662	346.306	346.30
132	n-Butanol	56	5.265	5.253	(1.261)	23396	306.254	306.25(a)
131	Methyl Acrylate	55	3.686	3.683	(0.883)	69039	14.8607	14.86
133	Ethyl Acrylate	55	5.377	5.373	(1.288)	200140	16.2111	16.21
136	n-Hexane	57	2.768	2.768	(0.663)	86118	17.4788	17.47
139	Diethyl ether	59	1.752	1.752	(0.420)	59553	13.0247	13.02
148	Tert-butyl alcohol	59	2.423	2.419	(0.581)	178202	376.091	376.09
149	Isopropyl alcohol	45	2.090	2.086	(0.501)	95762	386.987	386.98
156	Diisopropyl ether	45	2.997	2.993	(0.718)	252534	14.2263	14.22
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	139417	15.0752	15.07
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	356453	15.5288	15.52
167	Ethanol	45	1.700	1.700	(0.407)	16590	370.087	370.08
172	tert-Butyl formate	59	4.612	4.612	(1.105)	131901	36.3256	36.32
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	118586	285.854	285.85
174	tert-Amyl methyl ether	73	4.661	4.661	(1.117)	283929	14.3943	14.39
175	tert-Butyl ethyl ether	59	3.368	3.371	(0.807)	269067	14.2648	14.26
176	tert-Amyl alcohol	59	4.612	4.612	(1.105)	131901	358.901	358.90
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	252427	277.689	277.68
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	139417		(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	63436	13.5073	13.50
152	Amyl alcohol	42	6.907	6.899	(0.901)	25366	292.559	292.55
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	9721	10.9714	10.97
159	Propylene oxide	43	1.752	1.752	(0.420)	12051	28.0052	28.00
161	3-Methyl-1-butanol	55	6.910	6.899	(0.901)	26896	310.263	310.26
162	Butyl acrylate	55	8.252	8.248	(1.076)	176944	15.4489	15.44
182	Epichlorohydrin	57	6.104	6.093	(1.230)	4702	13.2946	13.29
M 94	1,2-Dichloroethylene (total)	96				199396	31.0036	31.00
M 95	Xylenes (total)	106				561064	53.9805	53.98(R)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	106513	10.0847	10.08
130	Ethyl Acetate	43	3.653	3.645	(0.875)	78369	14.6768	14.67
134	Cyclohexanone	55	8.642	8.642	(0.894)	58017	291.778	291.77(a)
185	Isoprene	39	1.767	1.767	(0.423)	23934	13.1291	13.12
186	Isopentane	42	1.606	1.606	(0.385)	40255		(a)
188	Isopropyl acetate	43	4.669	4.672	(0.941)	242967	16.2830	16.28

187 n-Amyl acetate	43	8.455	8.451 (1.103)	147832	14.4591	14.45
189 n-Butyl acetate	43	7.214	7.210 (0.941)	123242	16.3626	16.36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	86118	342.395	342.39
195 Methyl Amyl Ketone	43	8.383	8.380	(1.093)	173148	14.8529	14.85
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	162468	13.6910	13.69
168 1-Propanol	59	2.993	2.997	(0.717)	29218	261.270	261.27

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230127,b\X012709,D
Date : 27-JAN-2023 10:39
Client ID:
Sample Info: HS23011212-02MSD;HS23011212-02MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

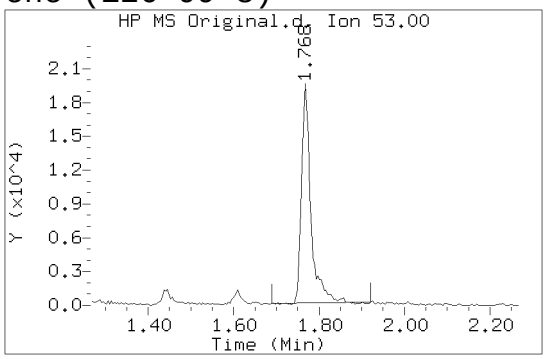
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012709.D
Inj Date : 27-JAN-2023 10:39
InstruID : voa6.i
LabSampID : HS23011212-02MSD

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
29950
HEIGHT
19446
13-Feb-2023
13:43
linh
pham



AFTER

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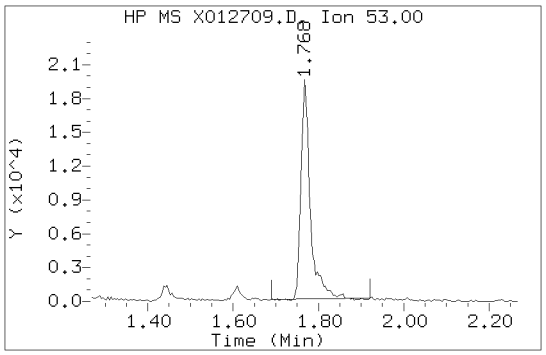
29950
HEIGHT
19446
14-Feb-2023
11:46
linh
pham



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13-Feb-2023
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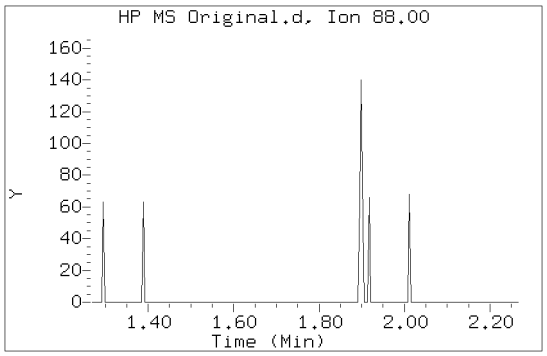

AFTER

MASS
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AREA
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HEIGHT
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14-Feb-2023
11:46
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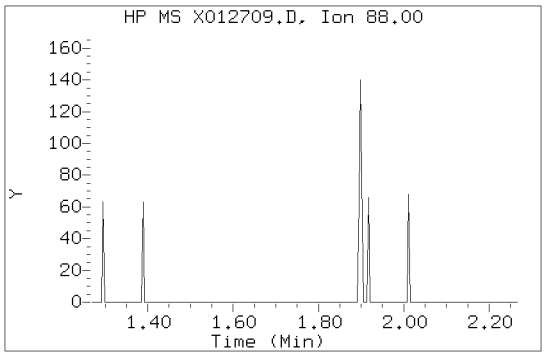


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D
Lab Smp Id: HS23011165-04 Client Smp ID: HS23011165-04
Inj Date : 27-JAN-2023 15:33
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-04;HS23011165-04;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

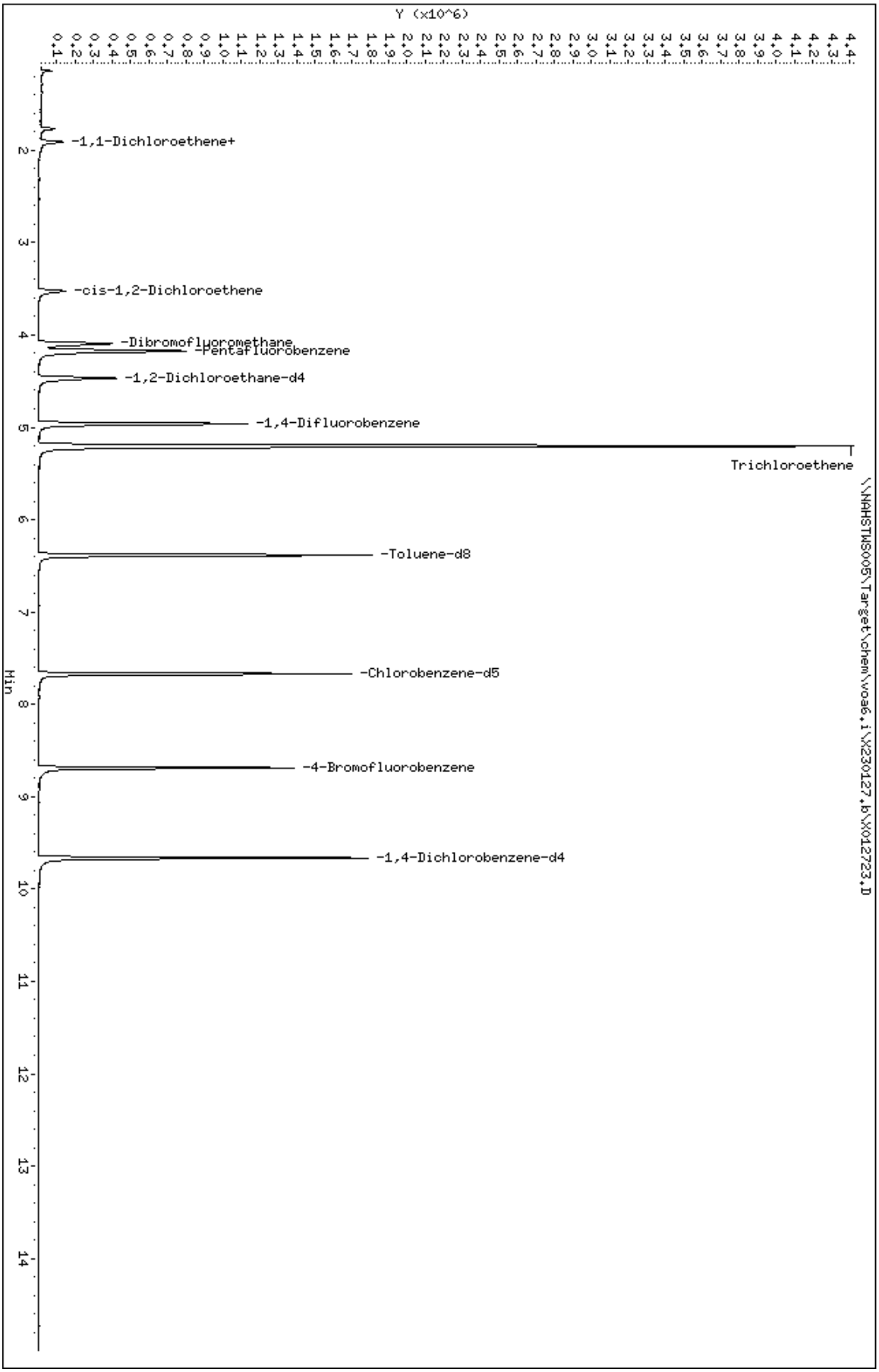
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.174	4.174	(1.000)	664576	50.0000	
	5 Vinyl Chloride	62	1.141	1.137	(0.273)	40985	7.05975	7.05
	11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	6076	1.20464	1.20
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.845)	81118	11.8079	11.80
$	30 Dibromofluoromethane	113	4.095	4.091	(0.981)	288399	45.1788	45.17
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.071)	332586	49.3829	49.38
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	933994	50.0000	
	38 Trichloroethene	130	5.205	5.201	(1.049)	1442382	228.008	228.00(A)
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	827903	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1070030	52.3036	52.30
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	394350	51.5677	51.56
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	435869	50.0000	
	138 Freon TF	101	1.913	1.910	(0.458)	43369	8.89000	8.89
M	94 1,2-Dichloroethylene (total)	96				81118	11.8079	11.80

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D
Date : 27-JAN-2023 15:33
Client ID: HS23011165-04
Sample Info: HS23011165-04;HS23011165-04;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D Page 2

Date : 27-JAN-2023 15:33

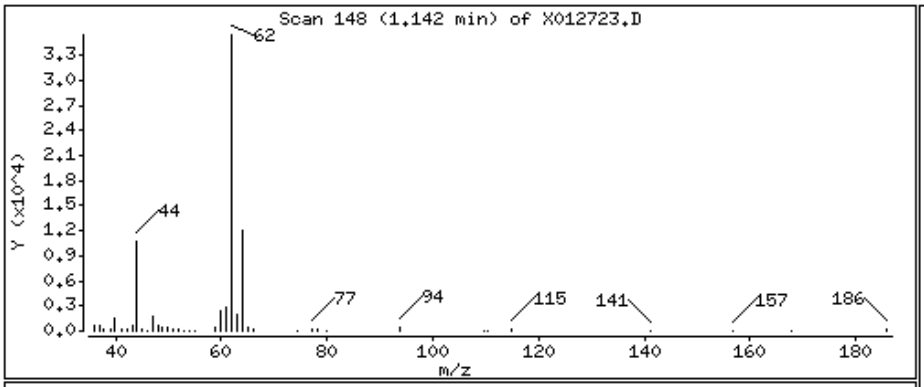
Client ID: HS23011165-04 Instrument: voa6.i

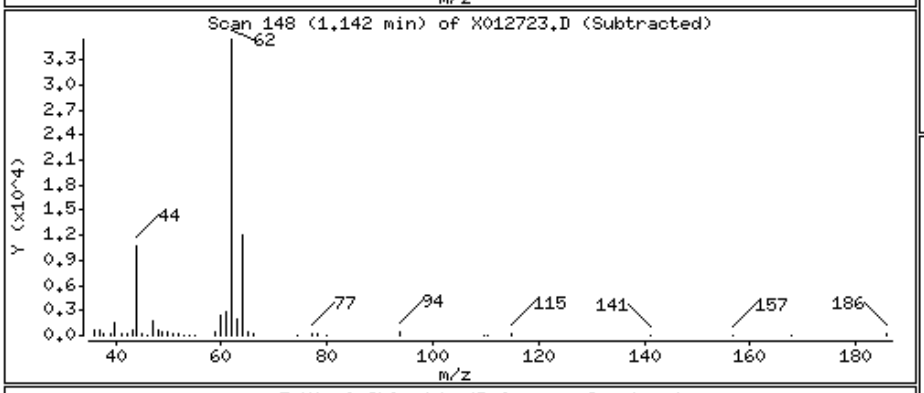
Sample Info: HS23011165-04;HS23011165-04;;;

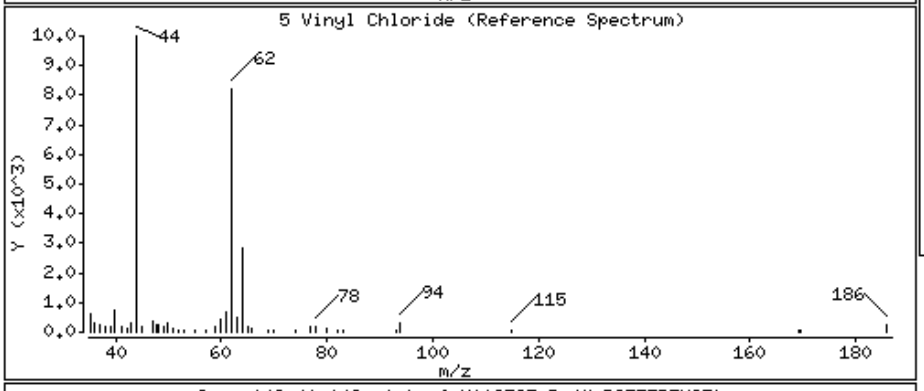
Purge Volume: 5.0 Operator: FT

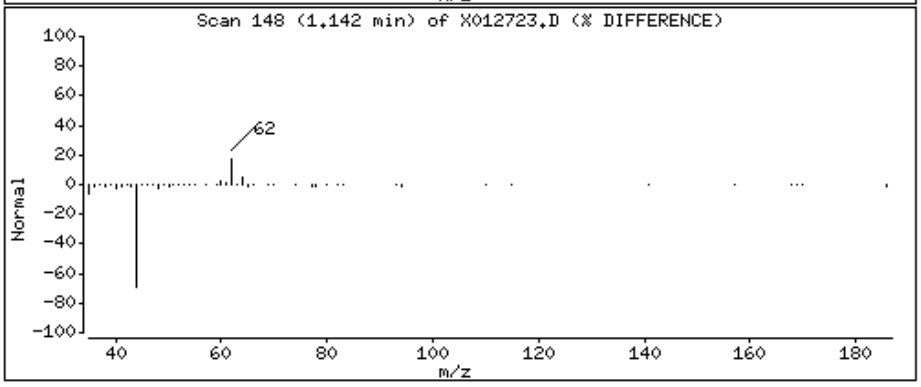
Column phase: DB624 Column diameter: 0.18

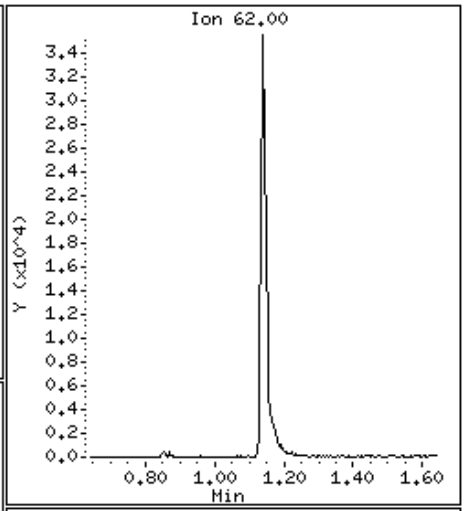
5 Vinyl Chloride Concentration: 7.05 ug/l

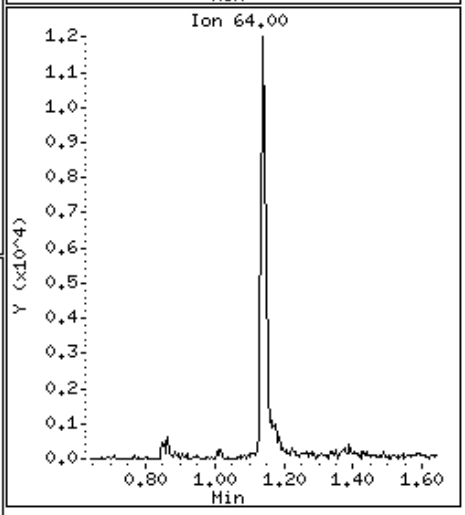












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D Page 3

Date : 27-JAN-2023 15:33

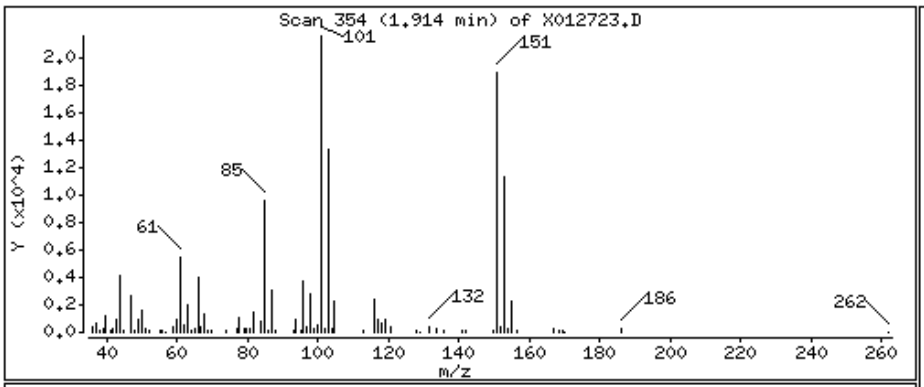
Client ID: HS23011165-04 Instrument: voa6.i

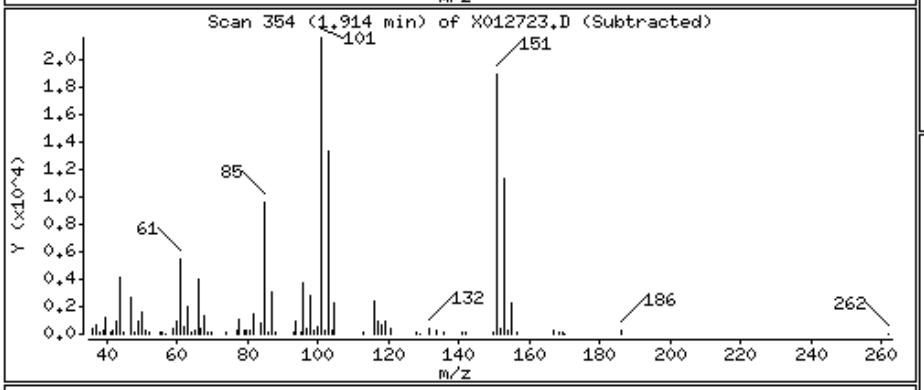
Sample Info: HS23011165-04;HS23011165-04;;;

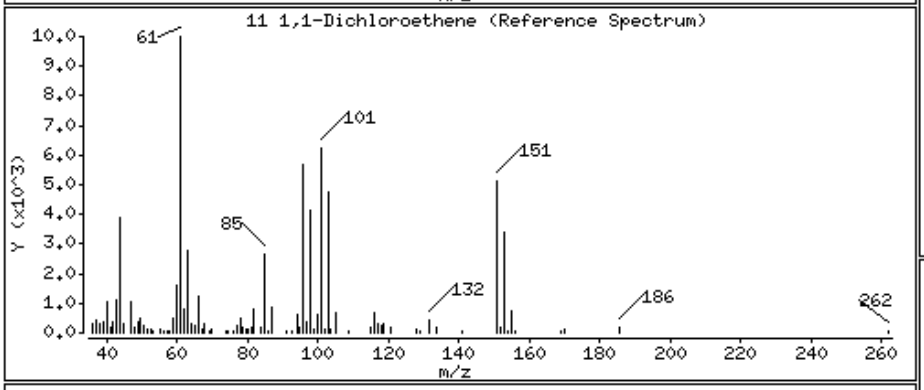
Purge Volume: 5.0 Operator: FT

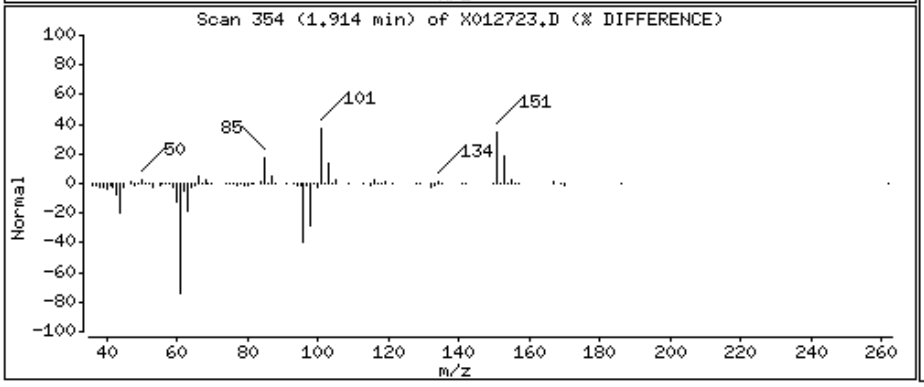
Column phase: DB624 Column diameter: 0.18

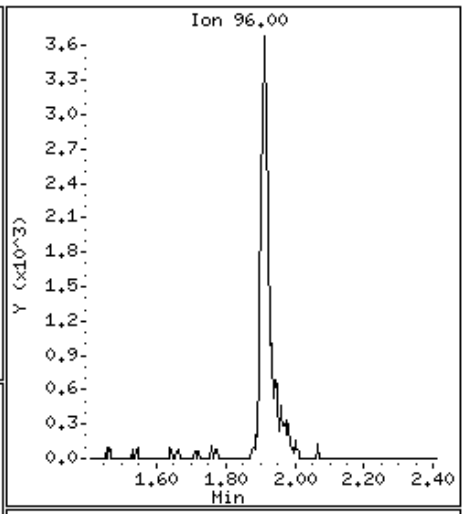
11 1,1-Dichloroethene Concentration: 1.20 ug/l

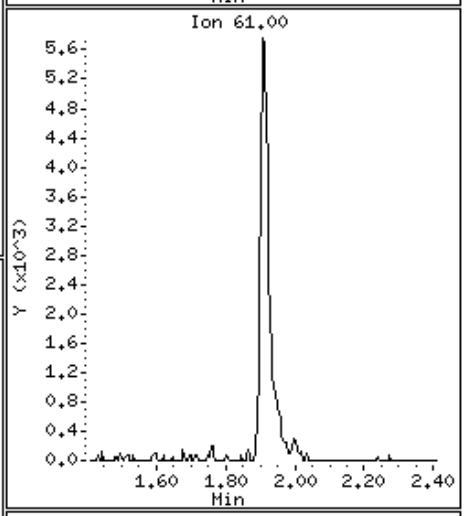


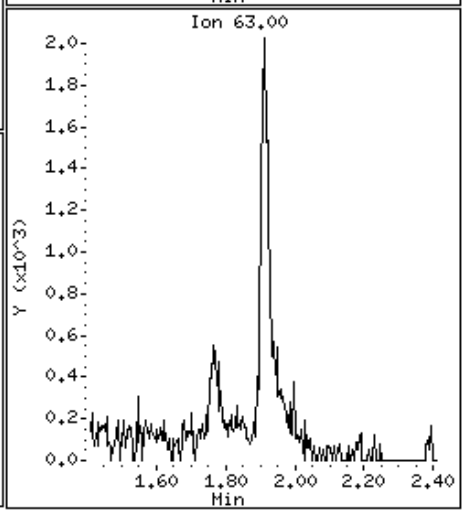












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D Page 4

Date : 27-JAN-2023 15:33

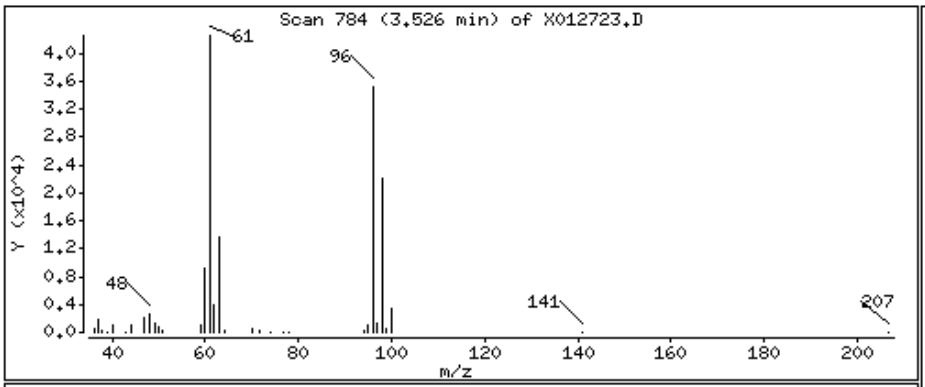
Client ID: HS23011165-04 Instrument: voa6.i

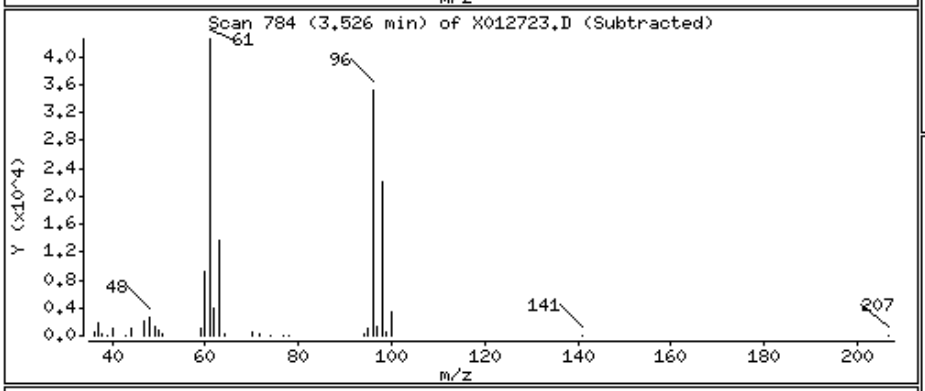
Sample Info: HS23011165-04;HS23011165-04;;;

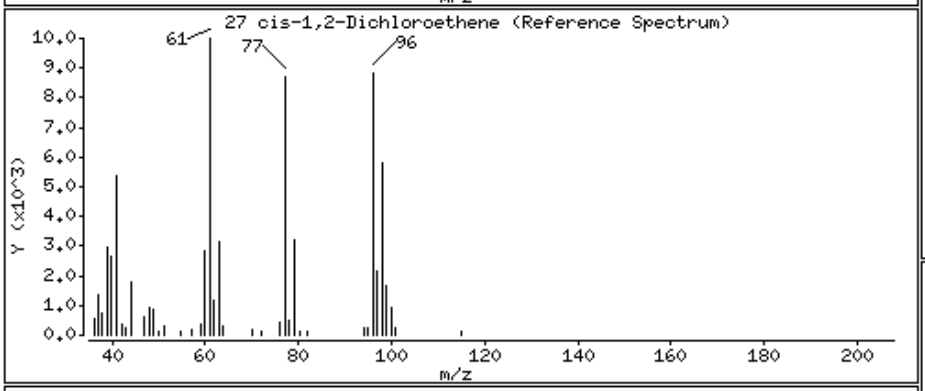
Purge Volume: 5.0 Operator: FT

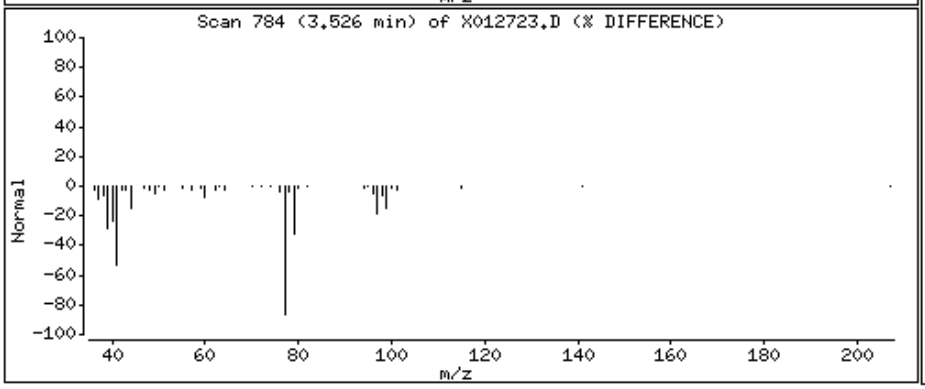
Column phase: DB624 Column diameter: 0.18

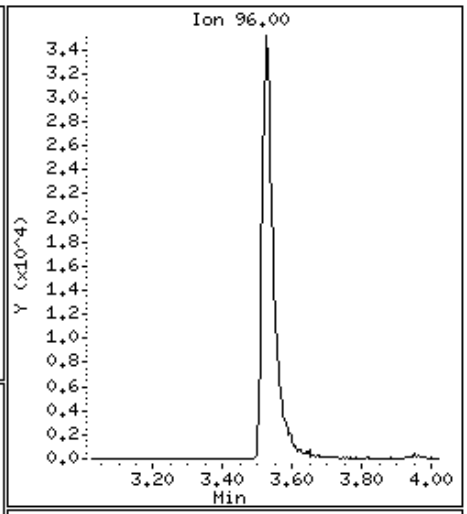
27 cis-1,2-Dichloroethene Concentration: 11.80 ug/l

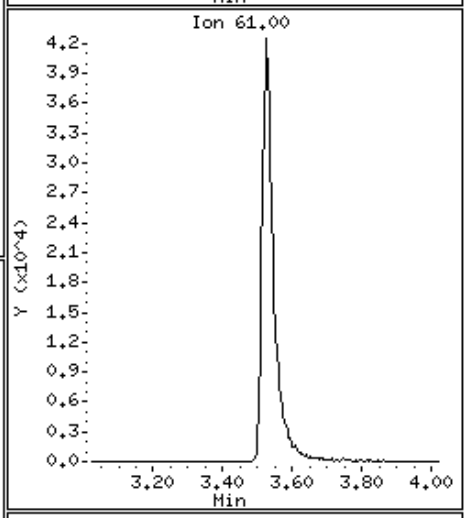


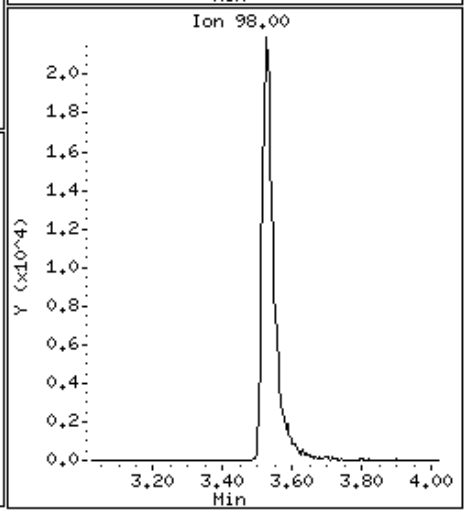












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D Page 5

Date : 27-JAN-2023 15:33

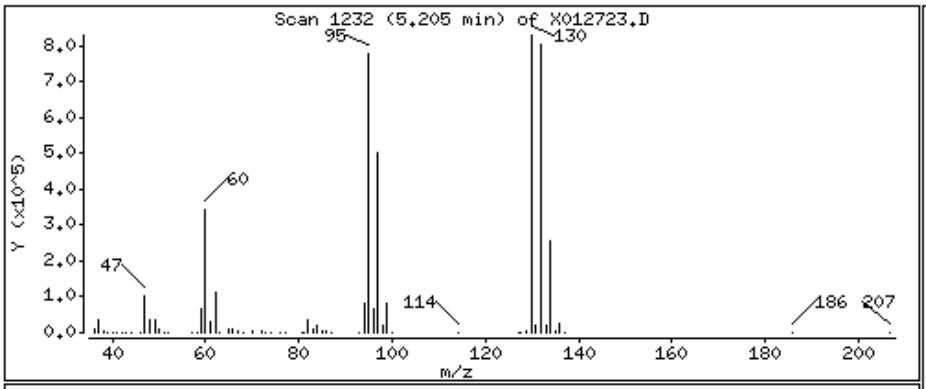
Client ID: HS23011165-04 Instrument: voa6.i

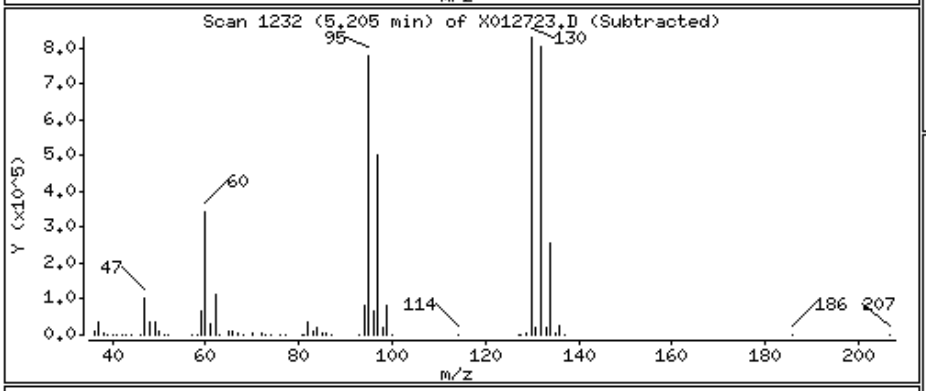
Sample Info: HS23011165-04;HS23011165-04;;;

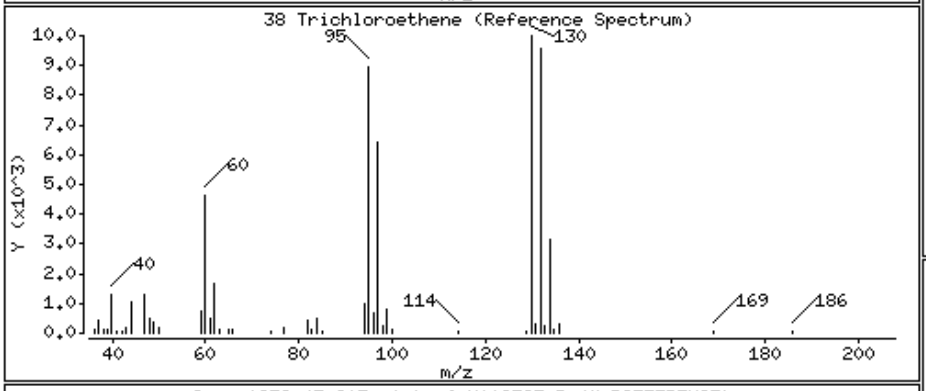
Purge Volume: 5.0 Operator: FT

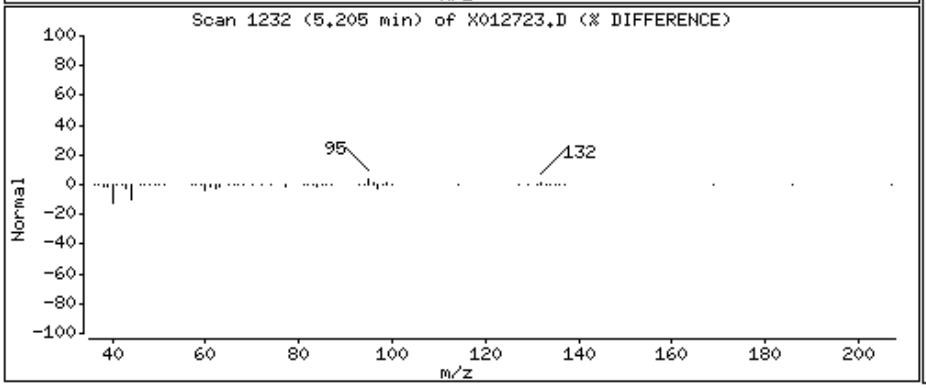
Column phase: DB624 Column diameter: 0.18

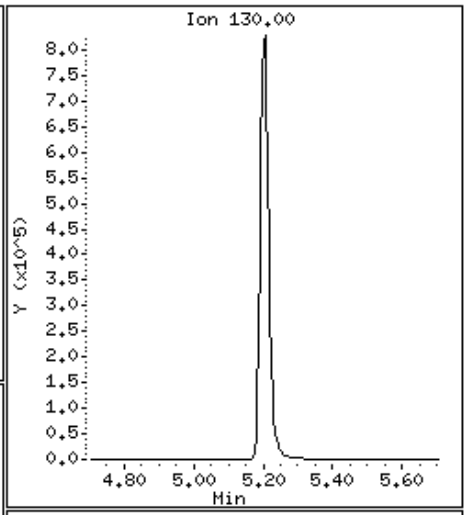
38 Trichloroethene Concentration: 228.00 ug/l

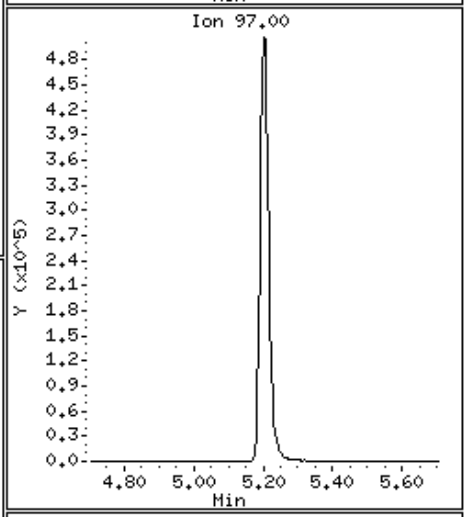


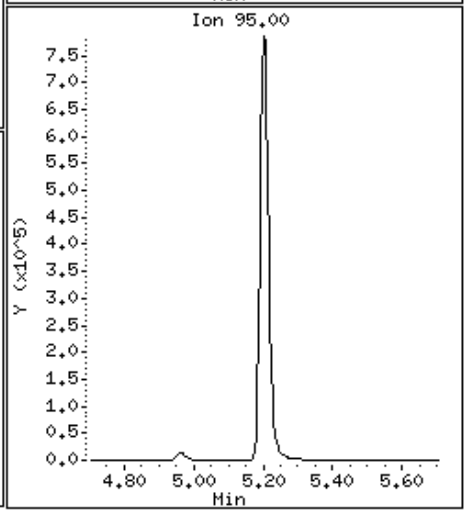












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012723.D

Date : 27-JAN-2023 15:33

Client ID: HS23011165-04

Instrument: voa6.i

Sample Info: HS23011165-04;HS23011165-04;;;

Purge Volume: 5.0

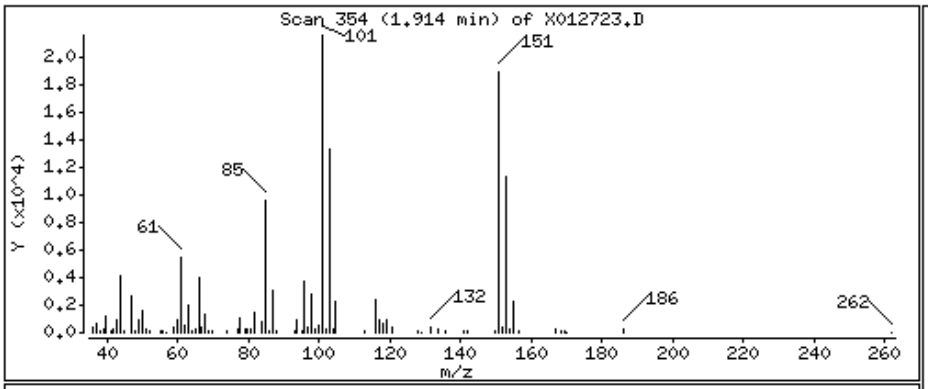
Operator: FT

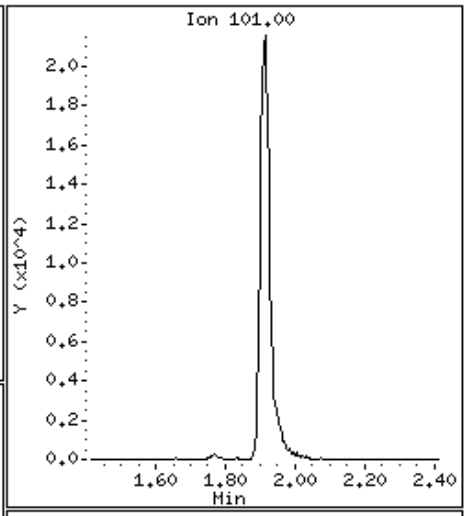
Column phase: DB624

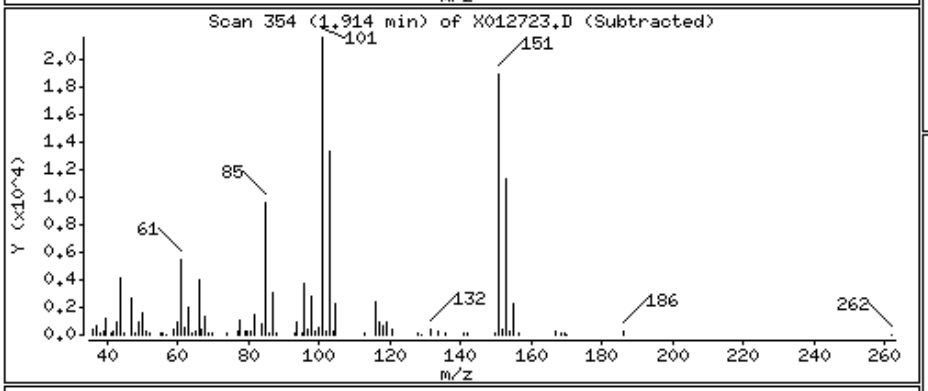
Column diameter: 0.18

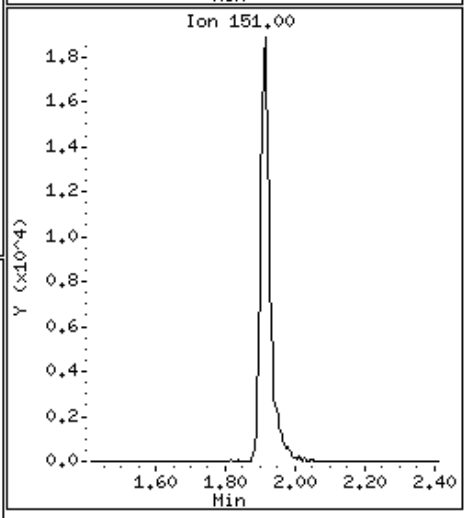
138 Freon TF

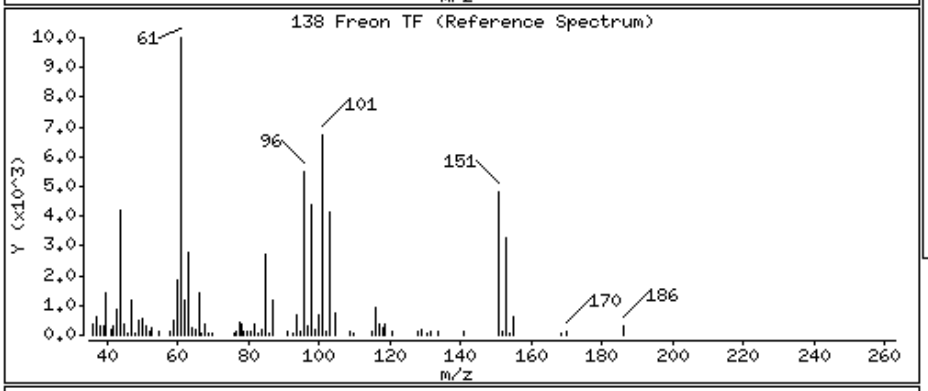
Concentration: 8.89 ug/l

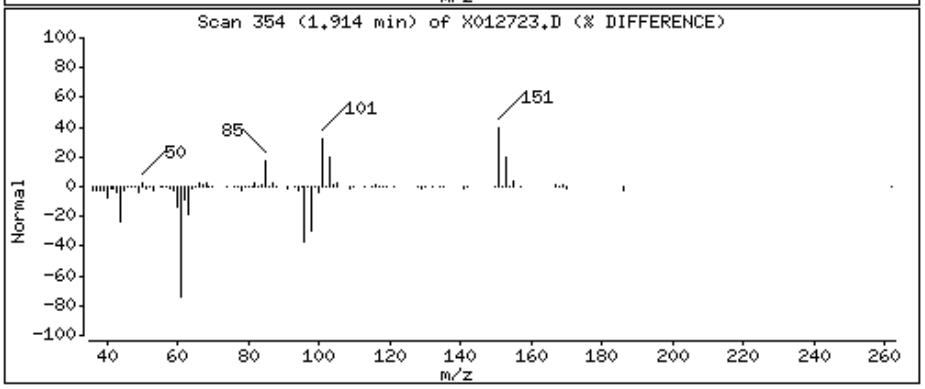












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Inj Date : 27-JAN-2023 15:33
InstruID : voa6.i
LabSampID : HS23011165-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D
Lab Smp Id: HS23011165-05 Client Smp ID: HS23011165-05
Inj Date : 27-JAN-2023 15:54
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-05;HS23011165-05;;;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

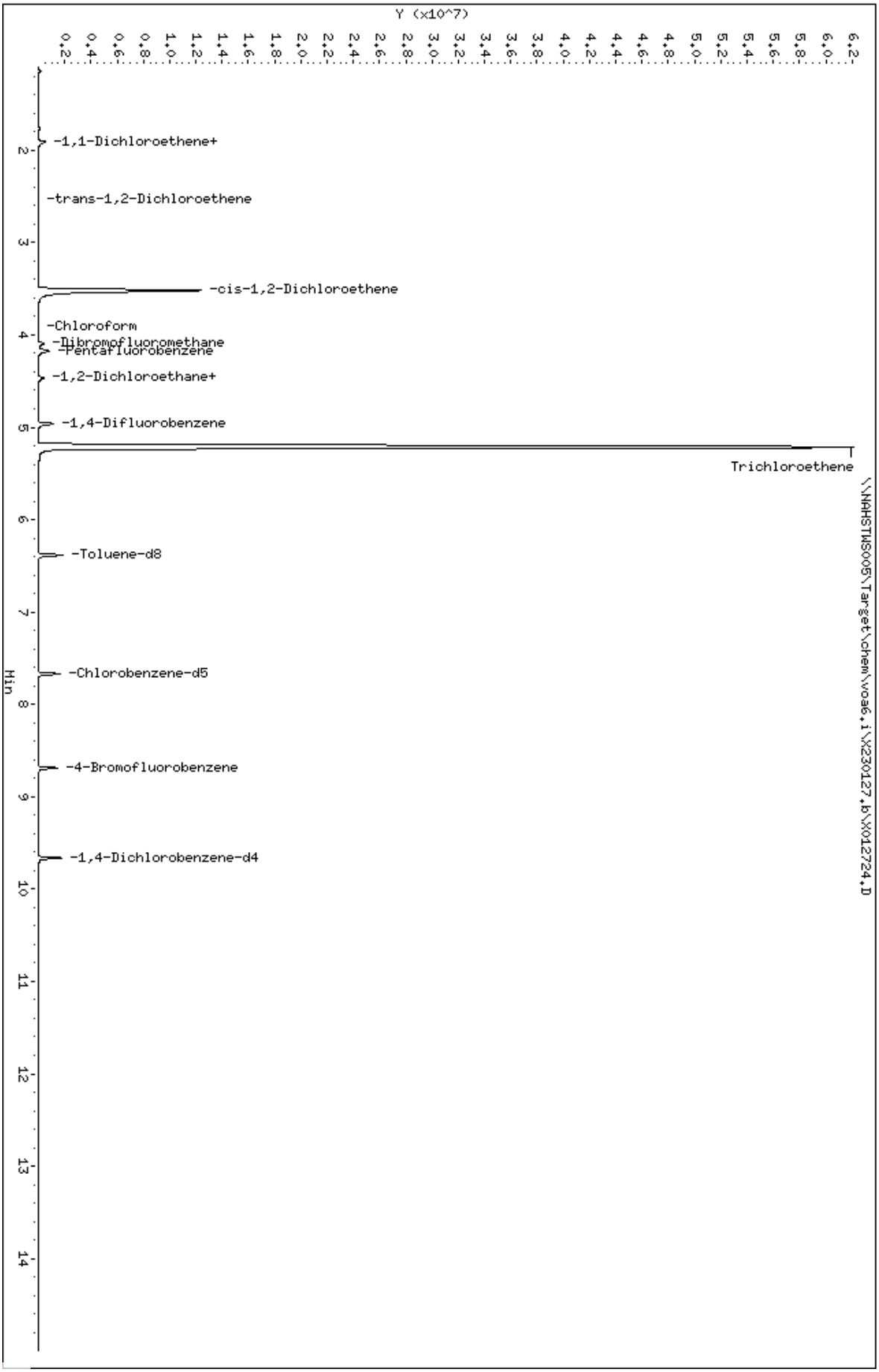
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.174	4.174	(1.000)	665252	50.0000	
	5 Vinyl Chloride	62	1.141	1.137	(0.273)	96136	16.5428	16.54
	11 1,1-Dichloroethene	96	1.909	1.910	(0.458)	47848	9.47679	9.47
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.606)	11590	2.05107	2.05
	27 cis-1,2-Dichloroethene	96	3.518	3.522	(0.843)	6794261	987.995	987.99(A)
	28 Chloroform	83	3.908	3.900	(0.936)	8090	0.72783	0.72
$	30 Dibromofluoromethane	113	4.095	4.091	(0.981)	287733	45.0281	45.02
	33 1,2-Dichloroethane	62	4.560	4.549	(0.919)	11460	1.47873	1.47
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	331597	49.1871	49.18
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	945876	50.0000	
	38 Trichloroethene	130	5.201	5.201	(1.048)	22838517	3564.91	3564.90(A)
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	827881	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1070255	52.3160	52.31
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	391258	51.1652	51.16
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	435249	50.0000	
	138 Freon TF	101	1.909	1.910	(0.458)	182612	37.3947	37.39
M	94 1,2-Dichloroethylene (total)	96				6805851	990.046	990.04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230127,b\X012724,D
Date : 27-JAN-2023 15:54
Client ID: HS23011165-05
Sample Info: HS23011165-05;HS23011165-05;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D Page 2

Date : 27-JAN-2023 15:54

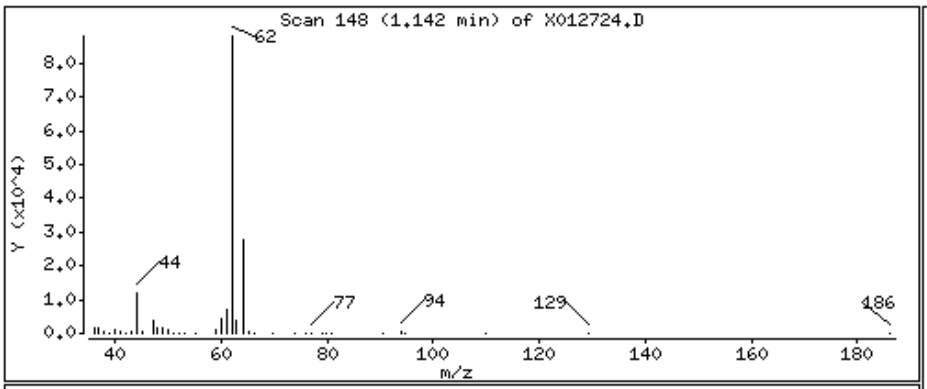
Client ID: HS23011165-05 Instrument: voa6.i

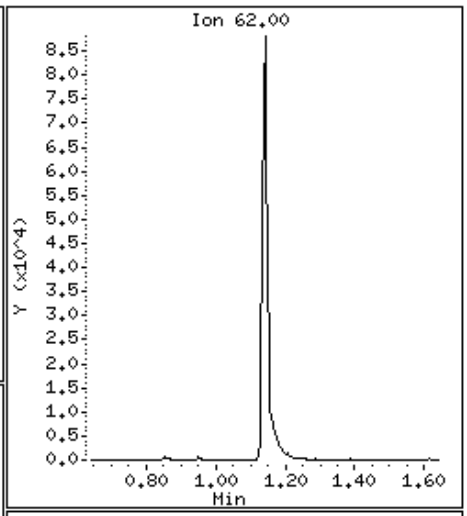
Sample Info: HS23011165-05;HS23011165-05;;;

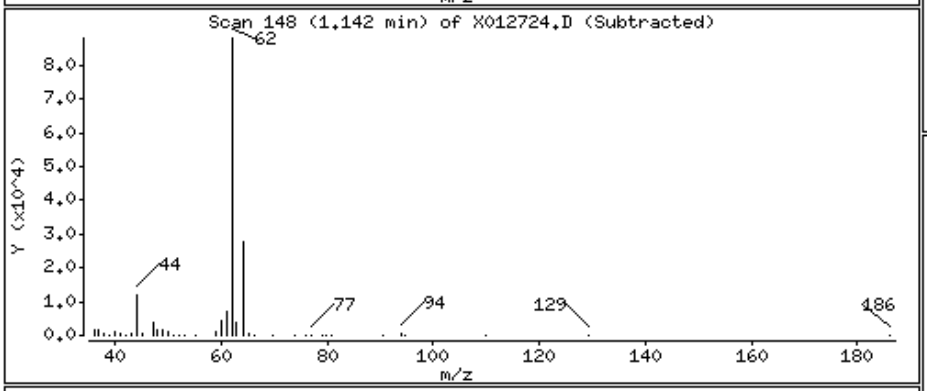
Purge Volume: 5.0 Operator: FT

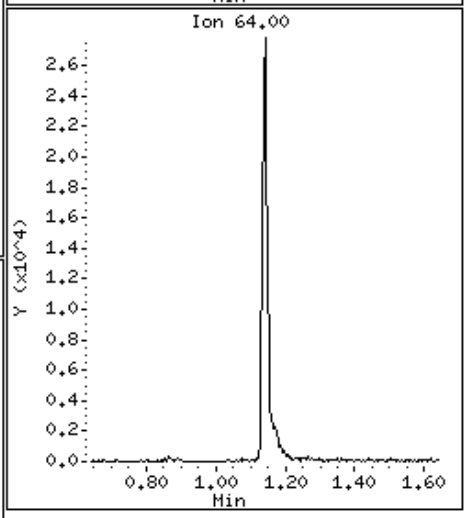
Column phase: DB624 Column diameter: 0.18

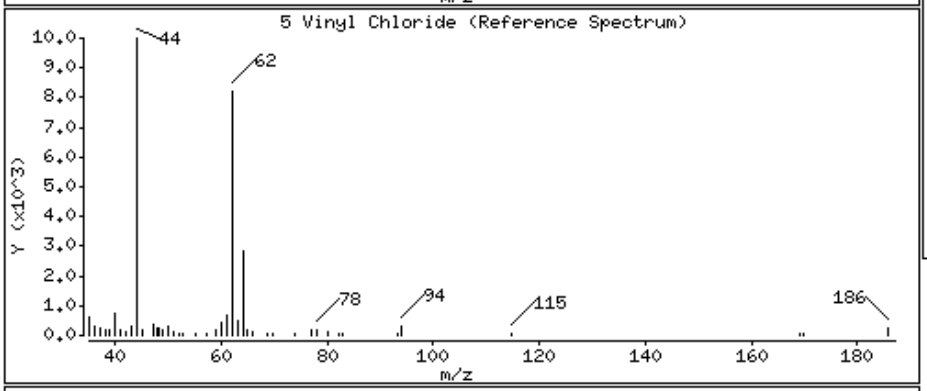
5 Vinyl Chloride Concentration: 16.54 ug/l

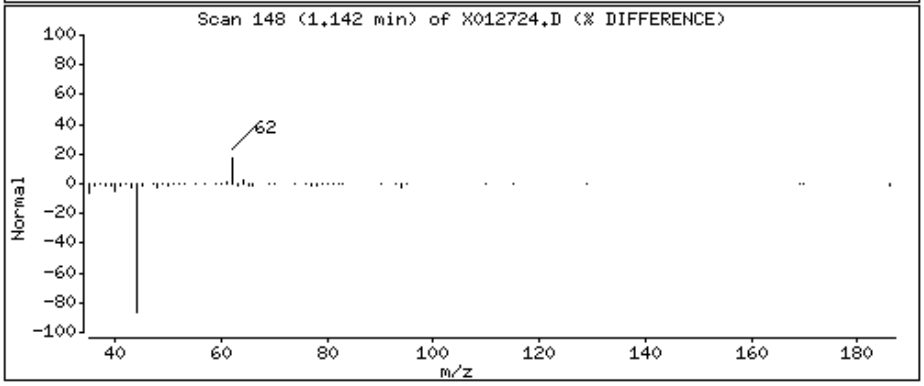












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D Page 3

Date : 27-JAN-2023 15:54

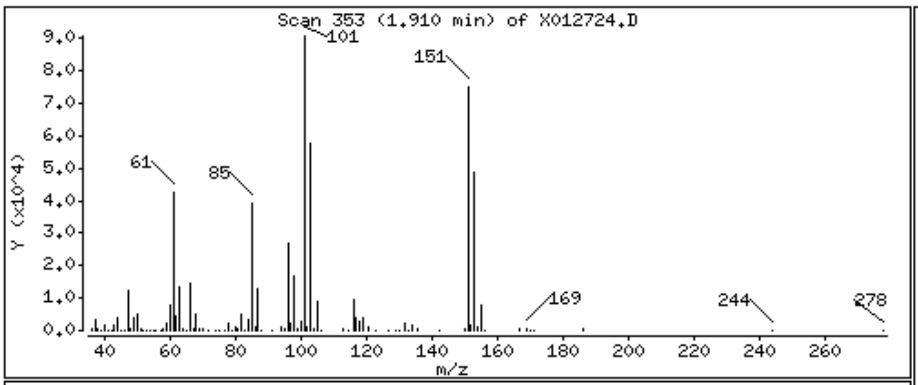
Client ID: HS23011165-05 Instrument: voa6.i

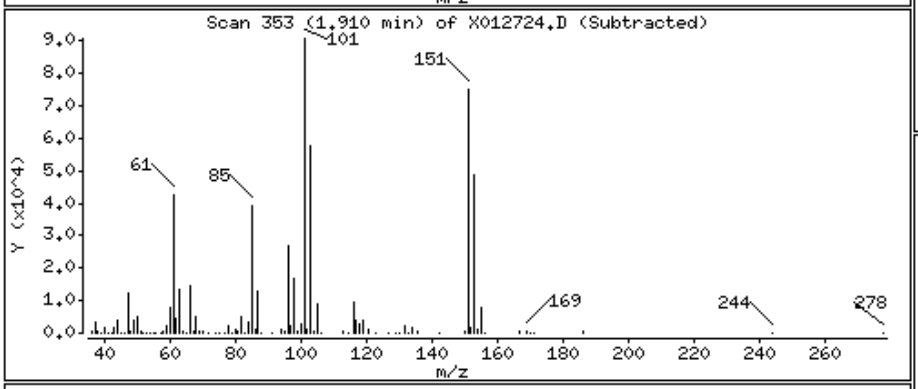
Sample Info: HS23011165-05;HS23011165-05;;;

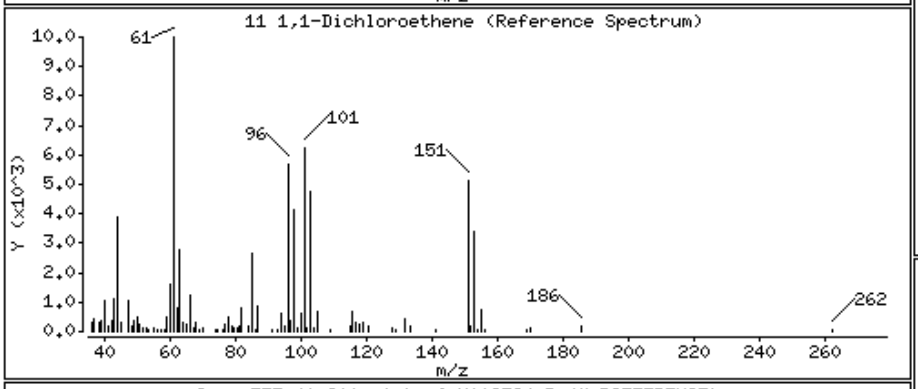
Purge Volume: 5.0 Operator: FT

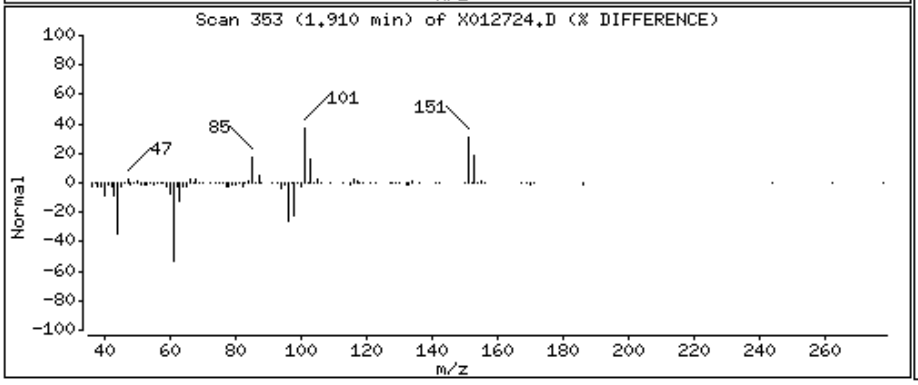
Column phase: DB624 Column diameter: 0.18

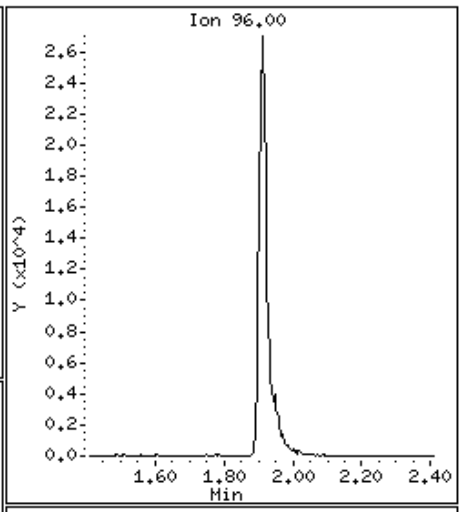
11 1,1-Dichloroethene Concentration: 9.47 ug/l

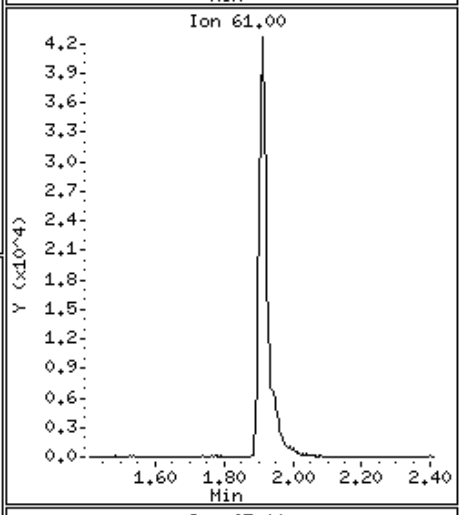


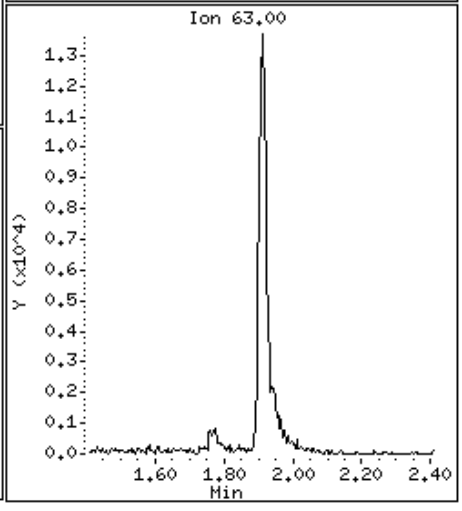












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D Page 4

Date : 27-JAN-2023 15:54

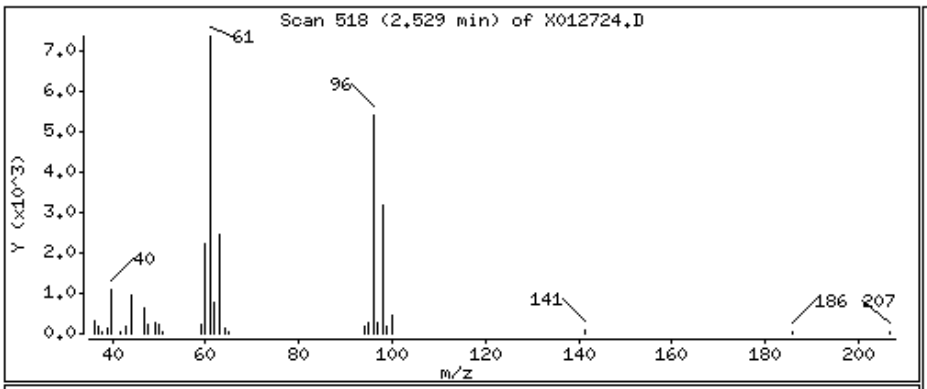
Client ID: HS23011165-05 Instrument: voa6.i

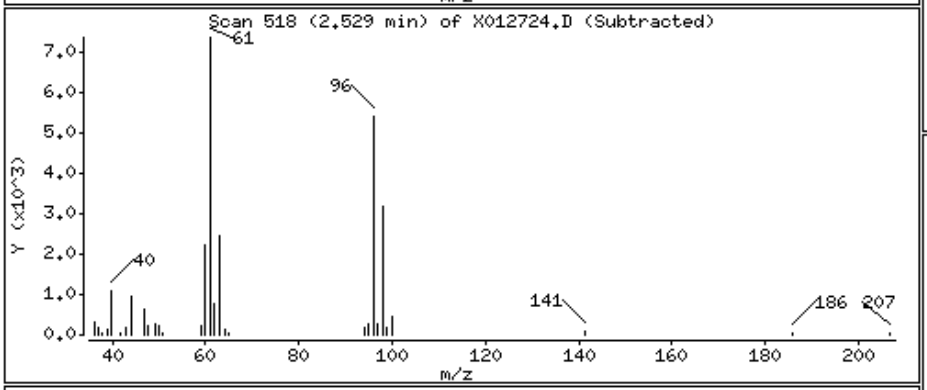
Sample Info: HS23011165-05;HS23011165-05;;;

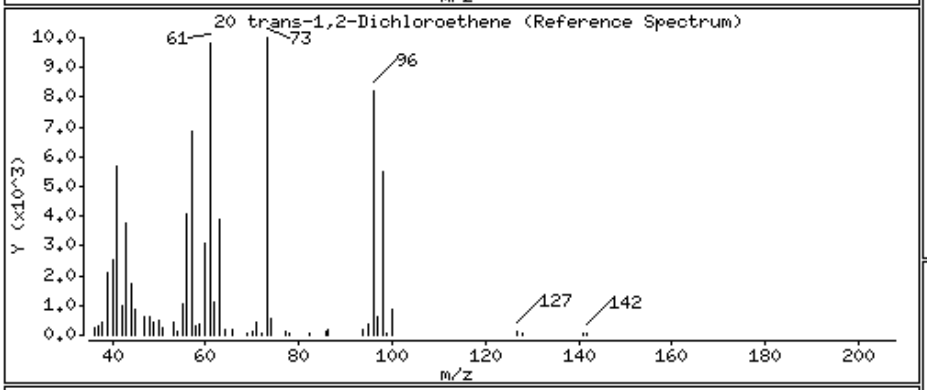
Purge Volume: 5.0 Operator: FT

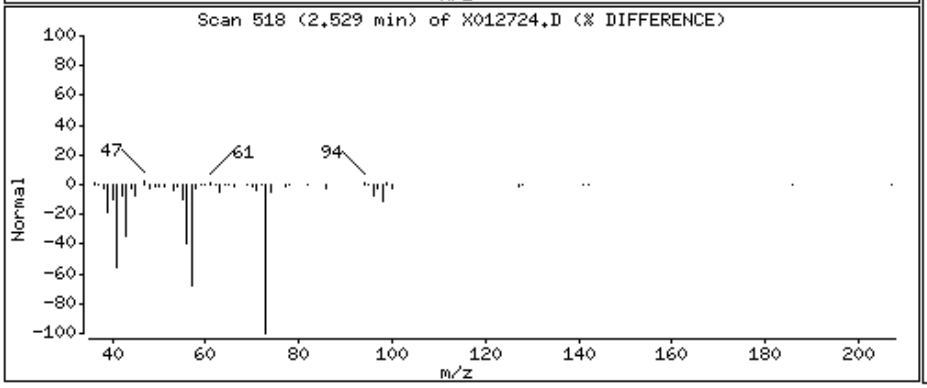
Column phase: DB624 Column diameter: 0.18

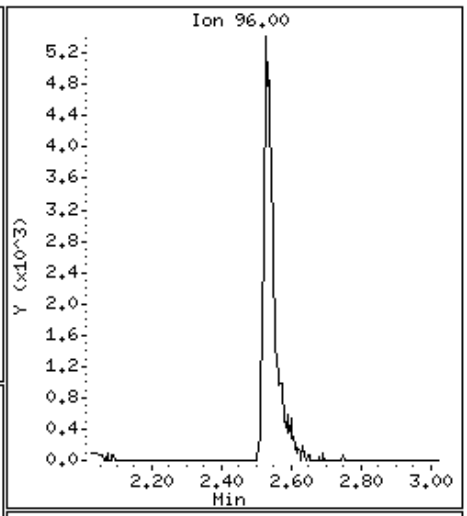
20 trans-1,2-Dichloroethene Concentration: 2.05 ug/l

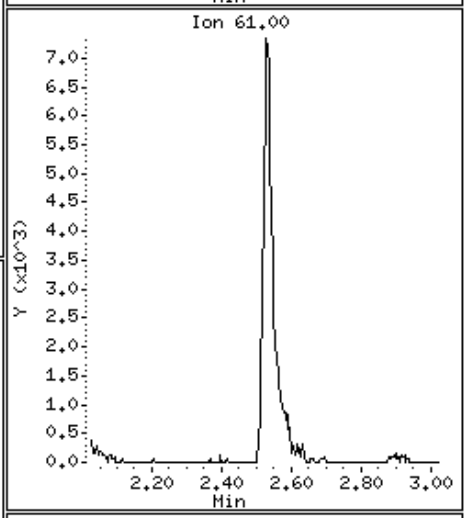


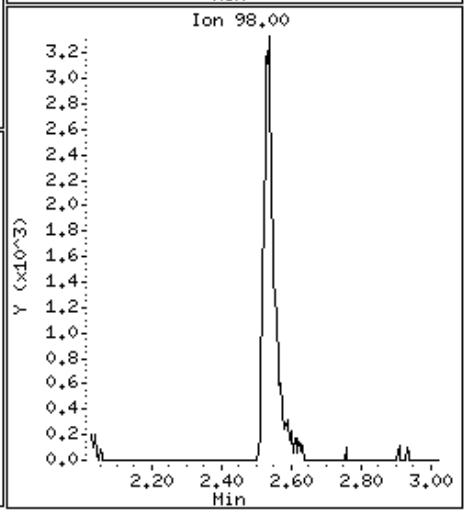












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D Page 5

Date : 27-JAN-2023 15:54

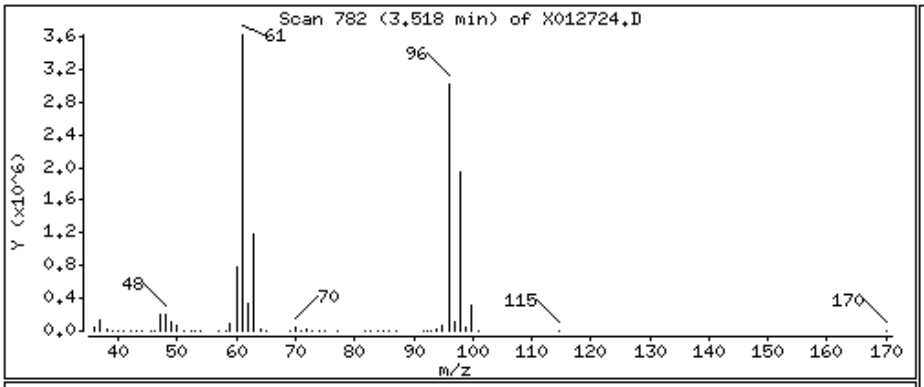
Client ID: HS23011165-05 Instrument: voa6.i

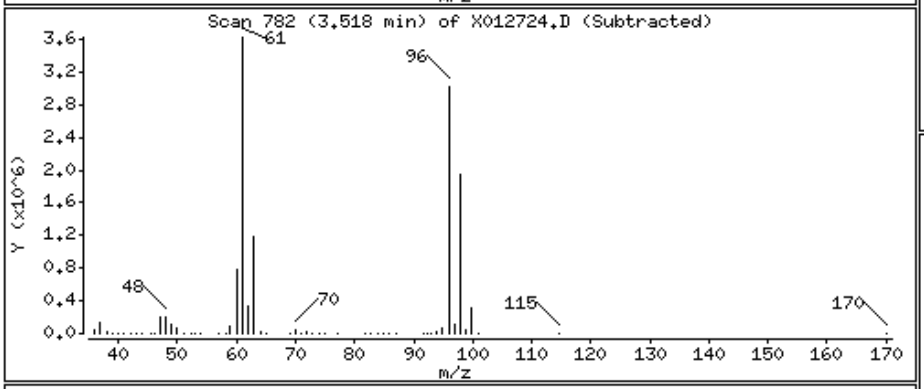
Sample Info: HS23011165-05;HS23011165-05;;;

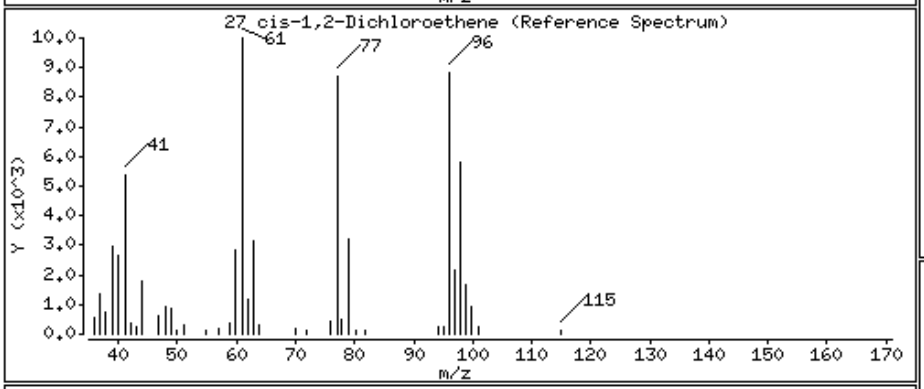
Purge Volume: 5.0 Operator: FT

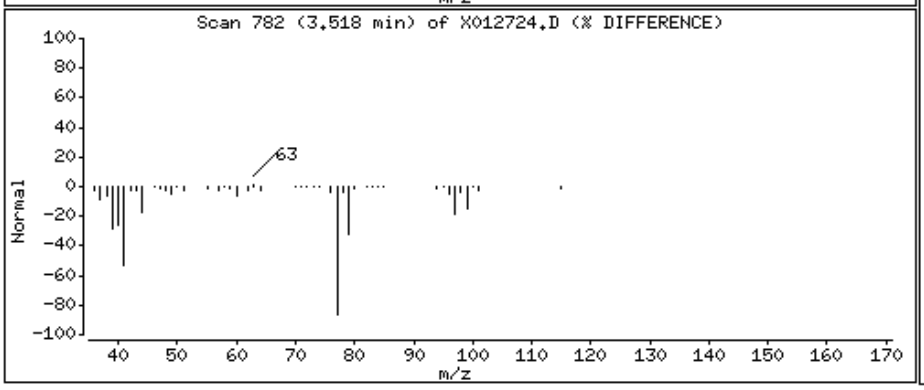
Column phase: DB624 Column diameter: 0.18

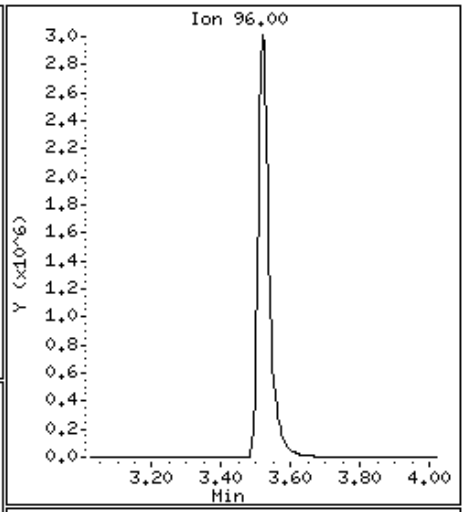
27 cis-1,2-Dichloroethene Concentration: 987.99 ug/l

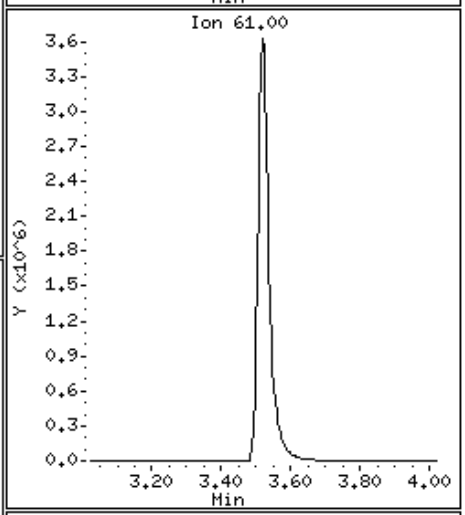


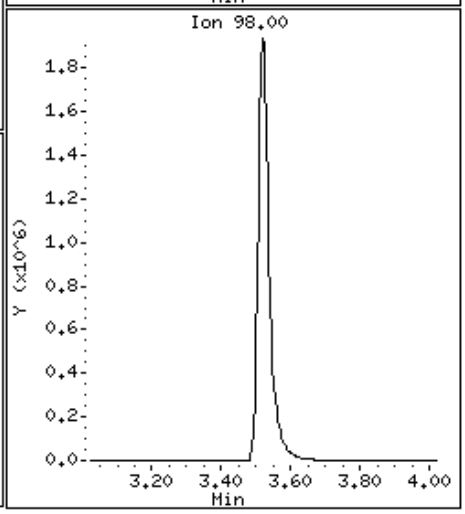












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D

Date : 27-JAN-2023 15:54

Client ID: HS23011165-05

Instrument: voa6.i

Sample Info: HS23011165-05;HS23011165-05;;;

Purge Volume: 5.0

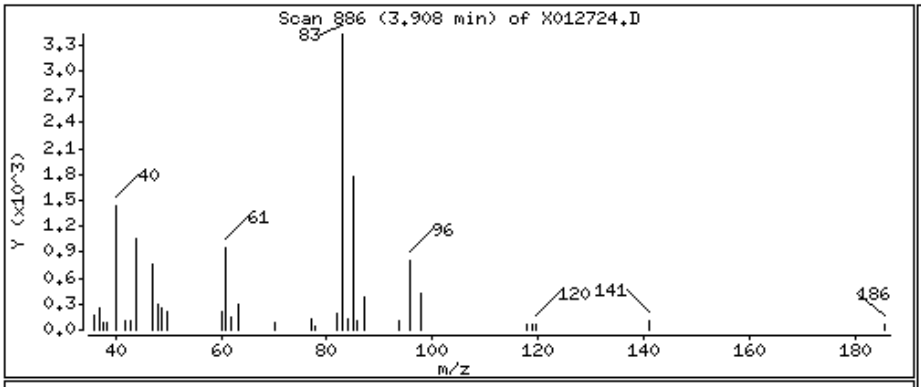
Operator: FT

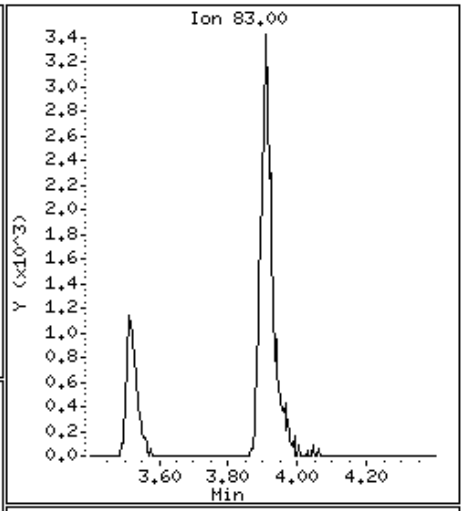
Column phase: DB624

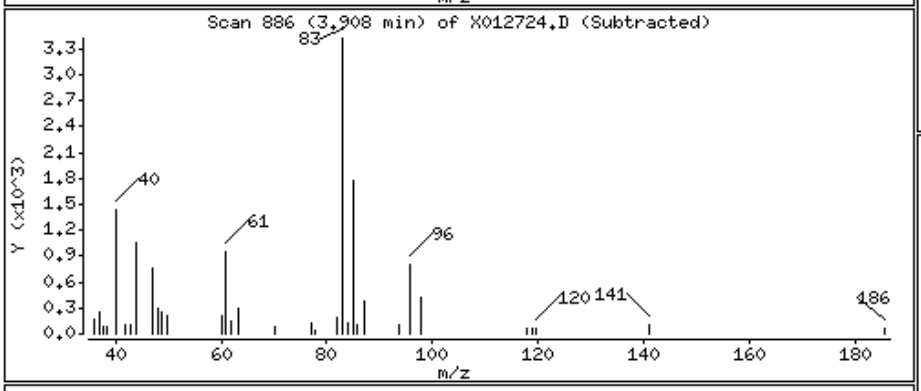
Column diameter: 0.18

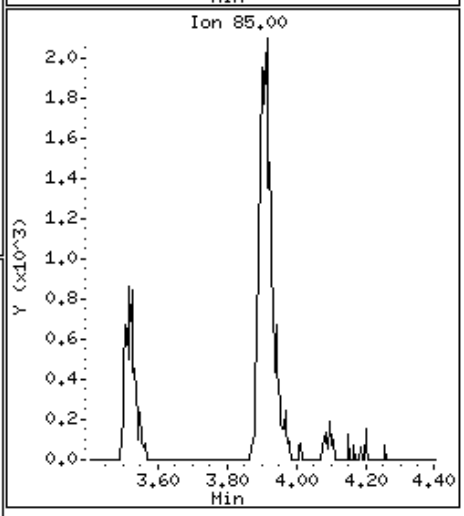
28 Chloroform

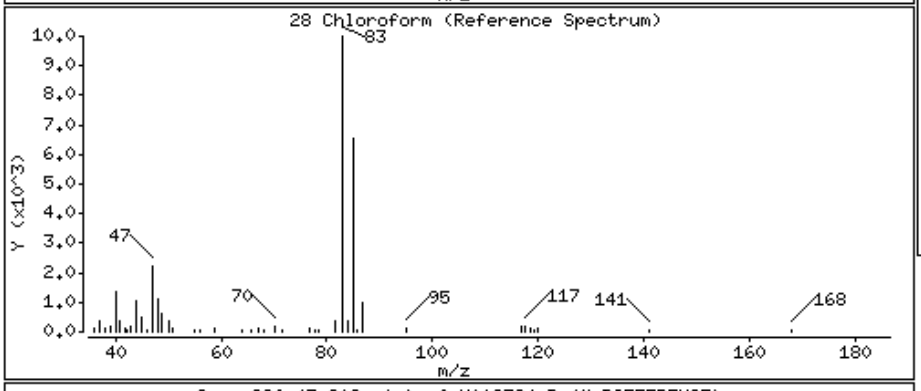
Concentration: 0.72 ug/l

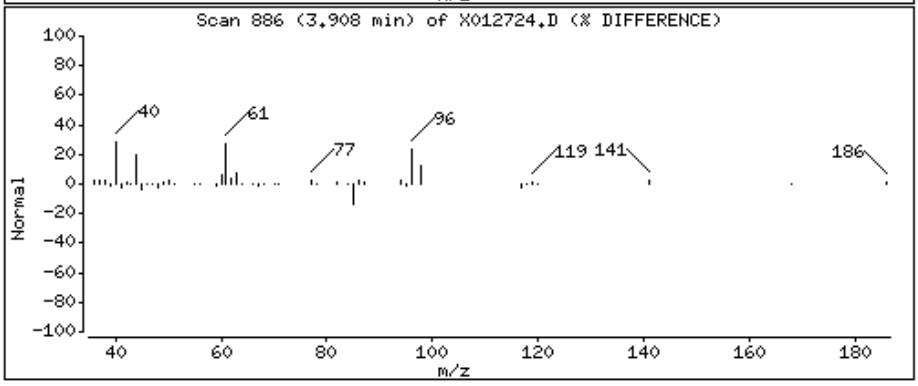












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D Page 7

Date : 27-JAN-2023 15:54

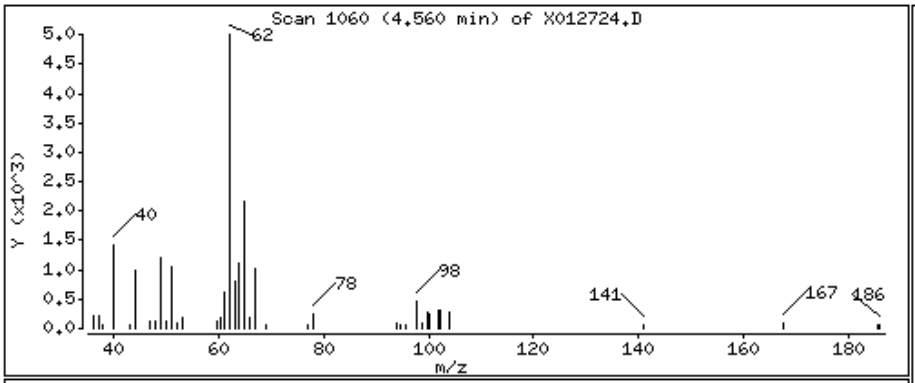
Client ID: HS23011165-05 Instrument: voa6.i

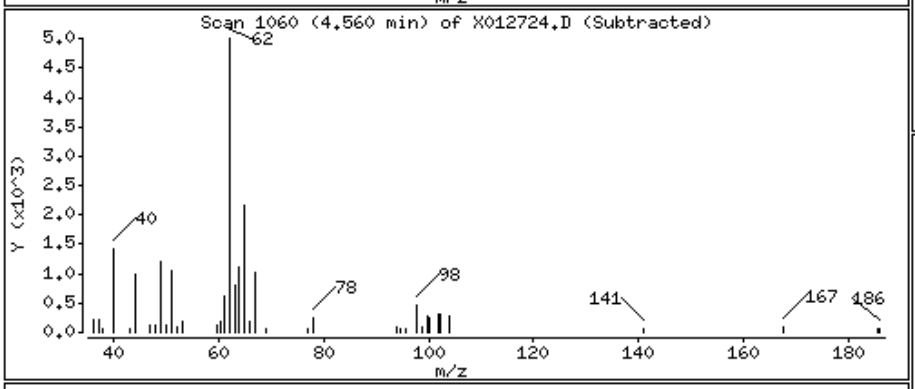
Sample Info: HS23011165-05;HS23011165-05;;;

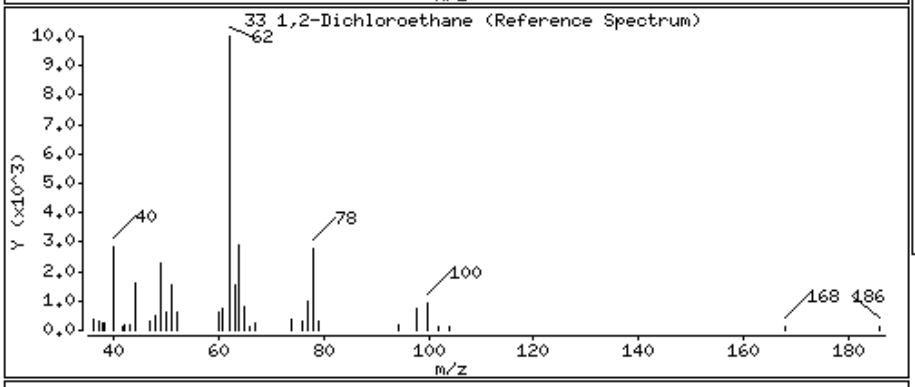
Purge Volume: 5.0 Operator: FT

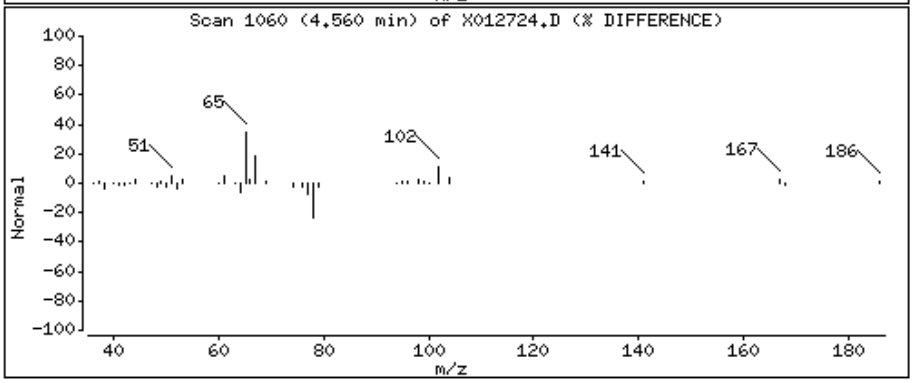
Column phase: DB624 Column diameter: 0.18

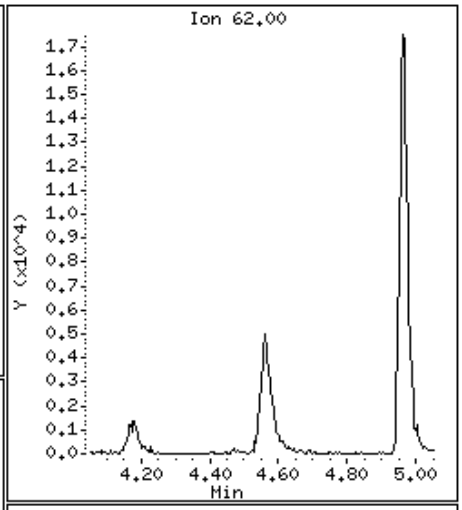
33 1,2-Dichloroethane Concentration: 1.47 ug/l

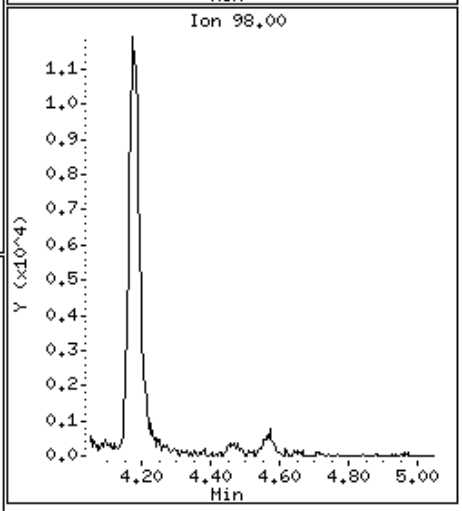












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D Page 8

Date : 27-JAN-2023 15:54

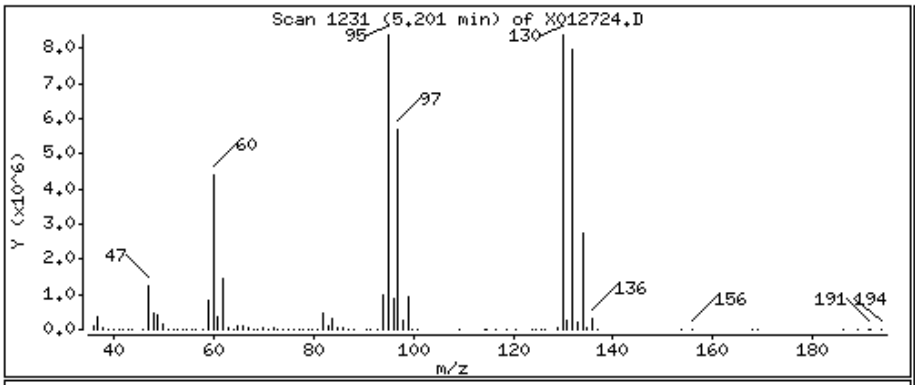
Client ID: HS23011165-05 Instrument: voa6.i

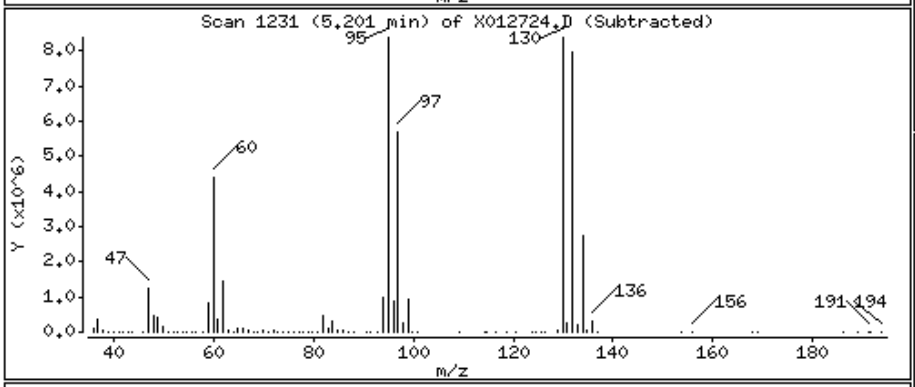
Sample Info: HS23011165-05;HS23011165-05;;;

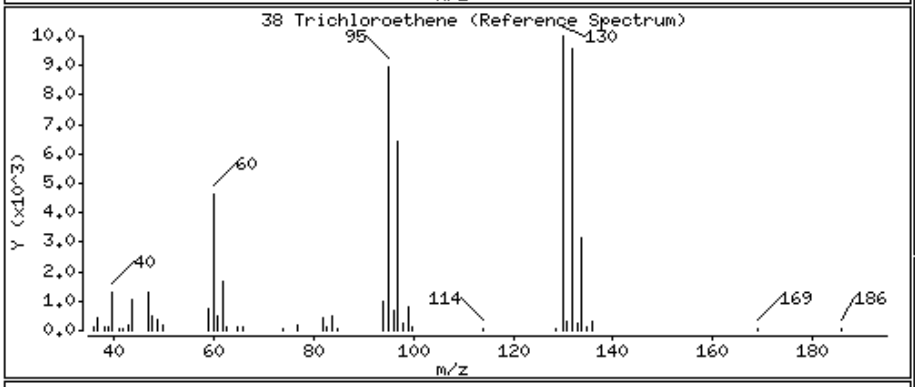
Purge Volume: 5.0 Operator: FT

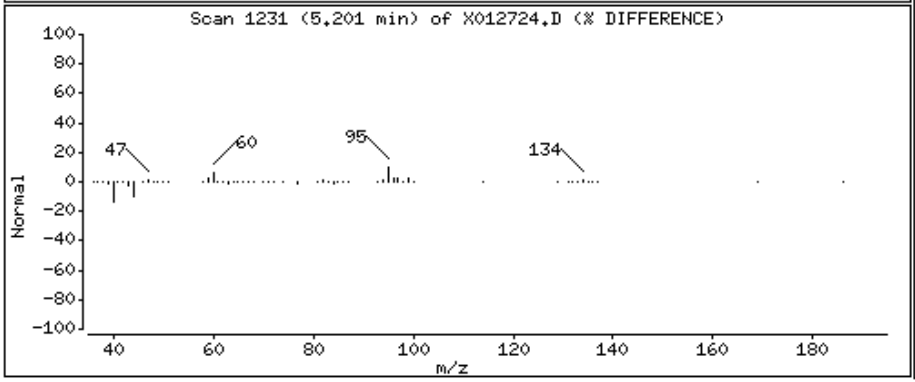
Column phase: DB624 Column diameter: 0.18

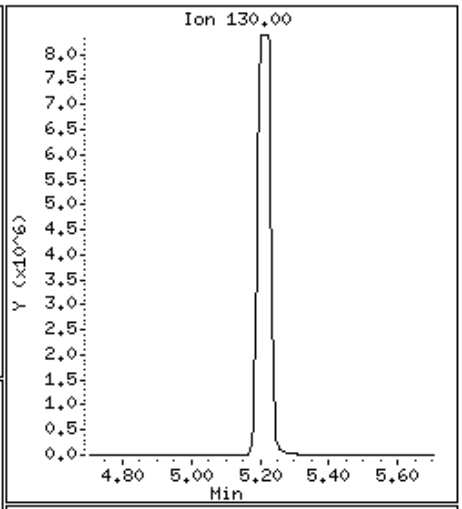
38 Trichloroethene Concentration: 3564.90 ug/l

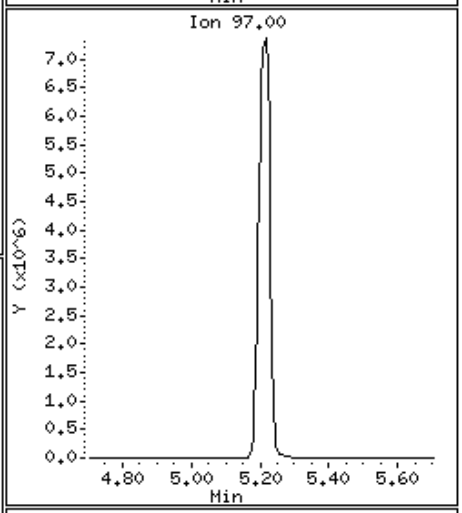


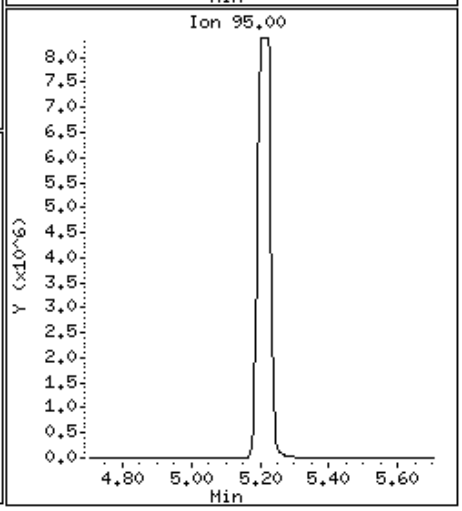












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Date : 27-JAN-2023 15:54

Client ID: HS23011165-05

Instrument: voa6.i

Sample Info: HS23011165-05;HS23011165-05;;;

Purge Volume: 5.0

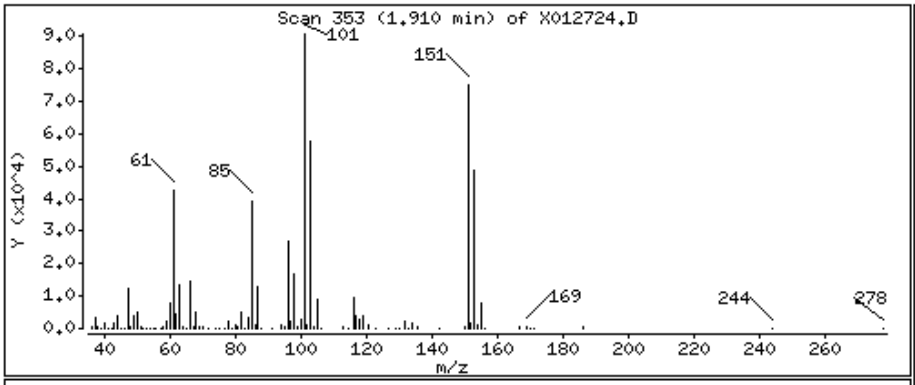
Operator: FT

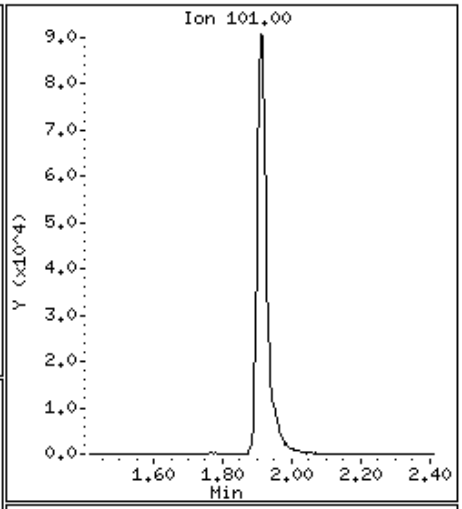
Column phase: DB624

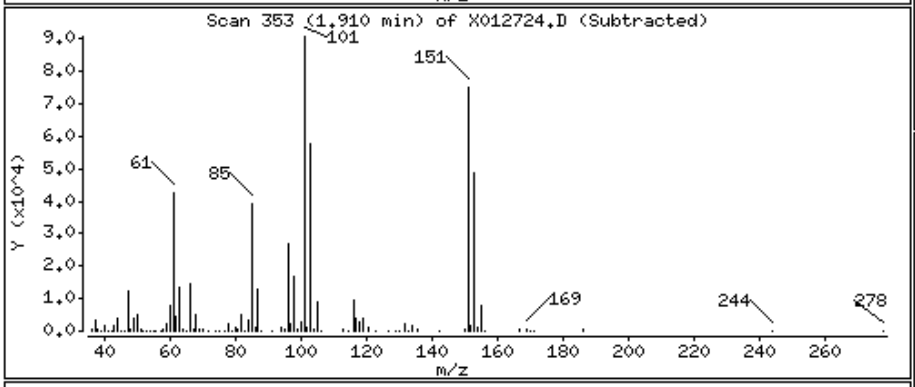
Column diameter: 0.18

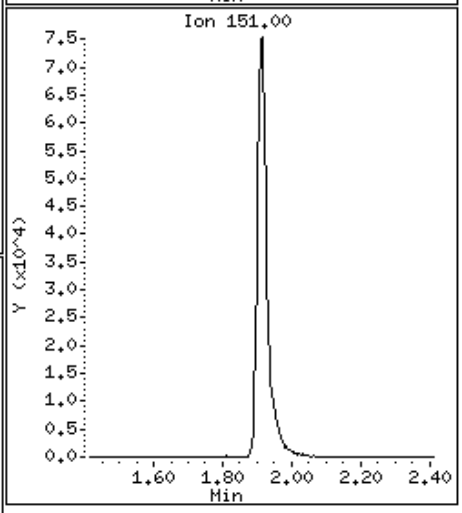
138 Freon TF

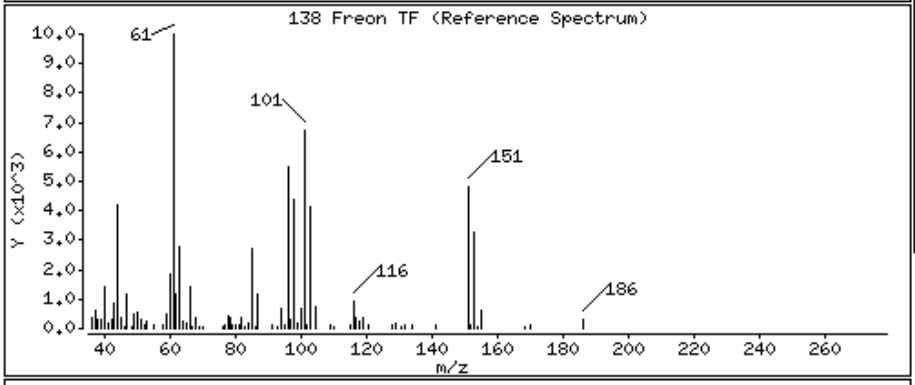
Concentration: 37.39 ug/l

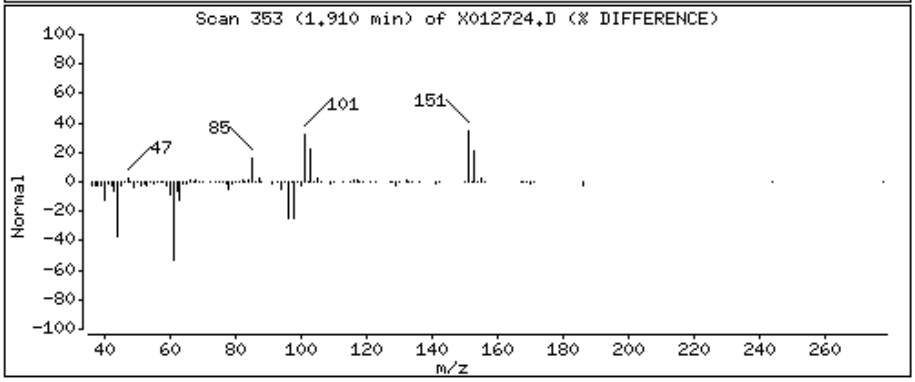












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012724.D
Inj Date : 27-JAN-2023 15:54
InstruID : voa6.i
LabSampID : HS23011165-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D
Lab Smp Id: HS23011165-06 Client Smp ID: HS23011165-06
Inj Date : 27-JAN-2023 16:15
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-06;HS23011165-06;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

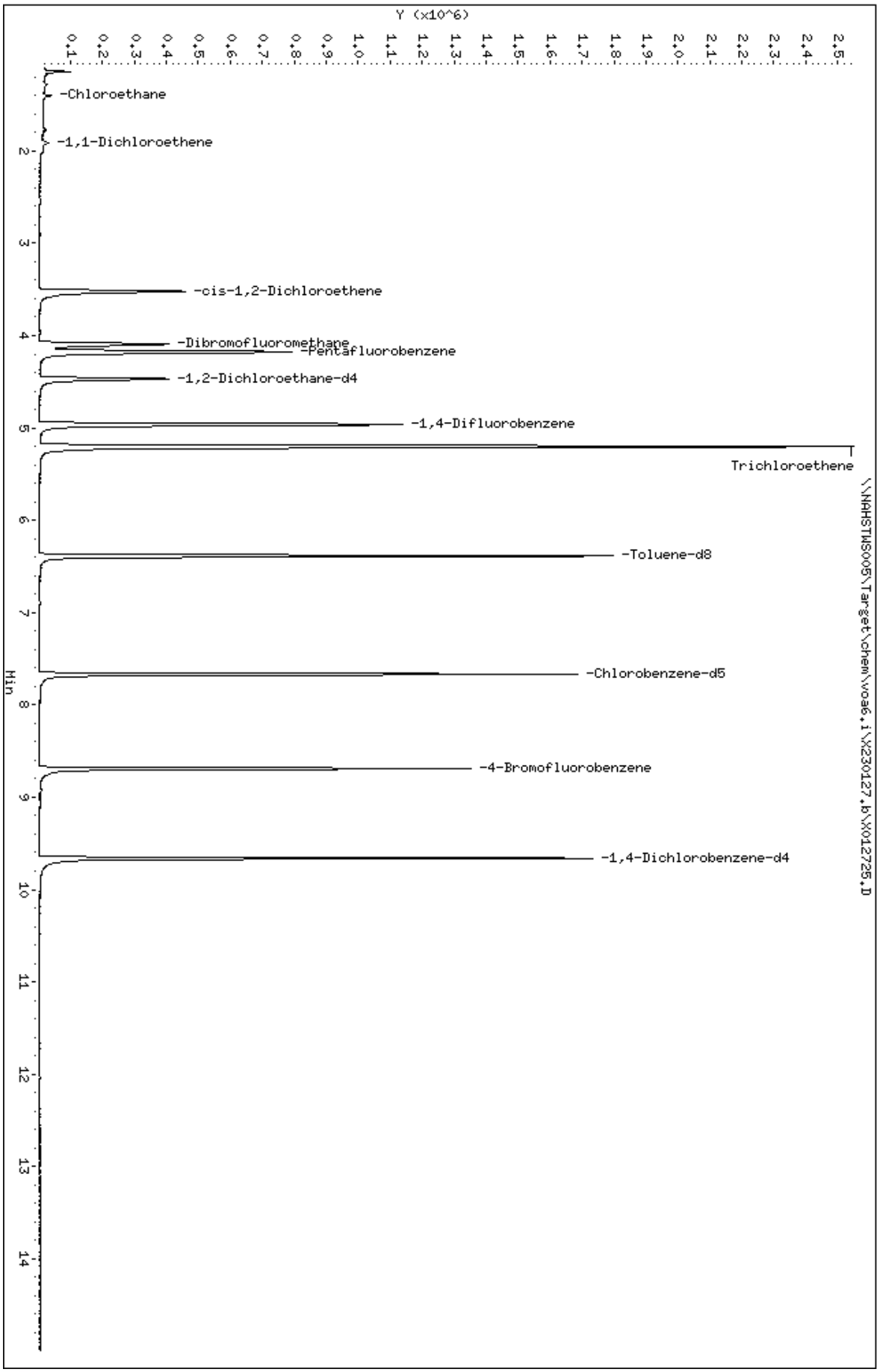
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.174	4.174	(1.000)	658168	50.0000	
	5 Vinyl Chloride	62	1.141	1.137	(0.274)	54778	9.52749	9.52
	7 Chloroethane	64	1.400	1.400	(0.335)	15811	3.95096	3.95(H)
	11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	4309	0.86263	0.86
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	254617	37.4239	37.42
$	30 Dibromofluoromethane	113	4.095	4.091	(0.981)	291311	46.0826	46.08
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	328813	49.2985	49.29
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	926826	50.0000	
	38 Trichloroethene	130	5.201	5.201	(1.048)	839694	133.763	133.76
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	816625	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1063663	52.7104	52.71
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	387470	51.3680	51.36
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	422590	50.0000	
M	94 1,2-Dichloroethylene (total)	96				254617	37.4239	37.42

QC Flag Legend

H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D
Date : 27-JAN-2023 16:15
Client ID: HS23011165-06
Sample Info: HS23011165-06;HS23011165-06;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D Page 2

Date : 27-JAN-2023 16:15

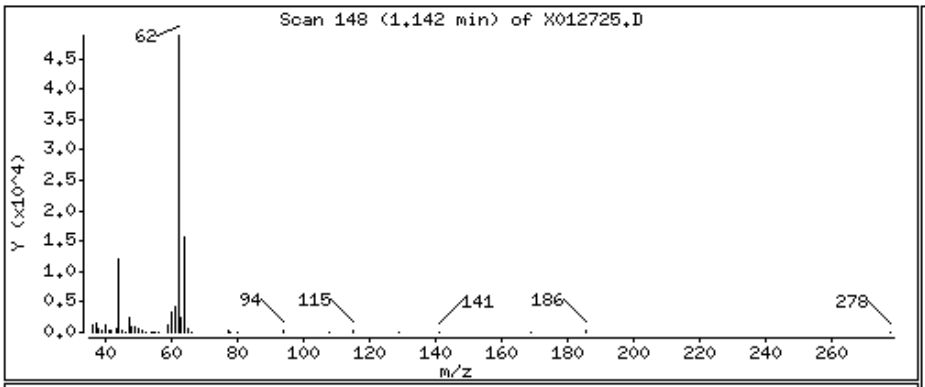
Client ID: HS23011165-06 Instrument: voa6.i

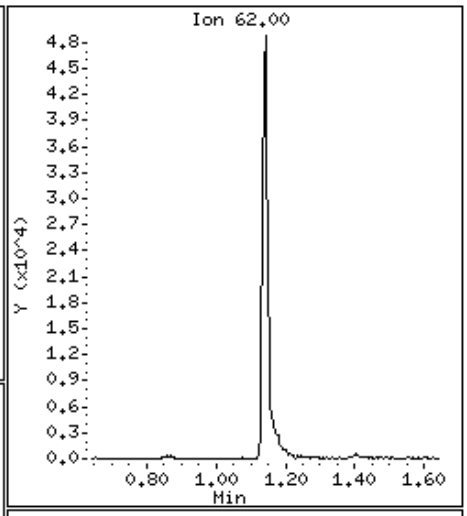
Sample Info: HS23011165-06;HS23011165-06;;;

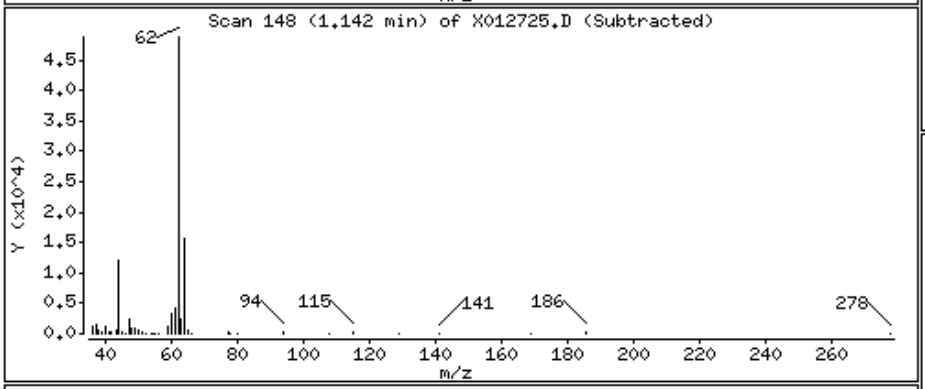
Purge Volume: 5.0 Operator: FT

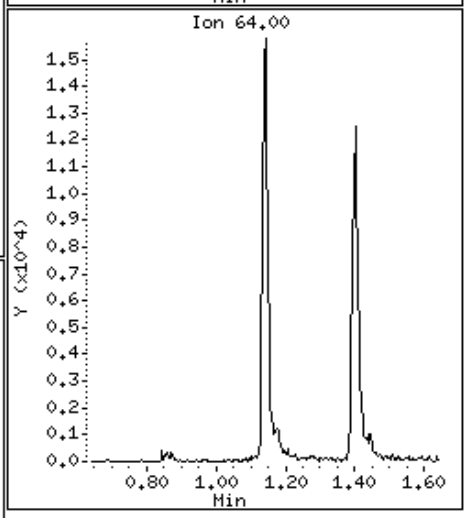
Column phase: DB624 Column diameter: 0.18

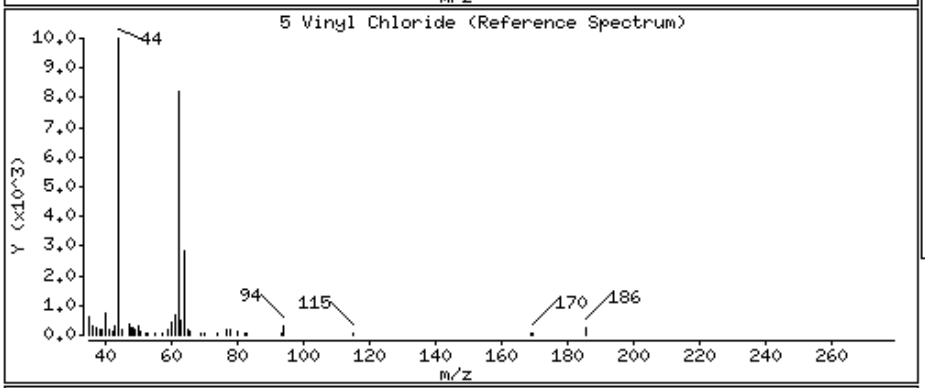
5 Vinyl Chloride Concentration: 9.52 ug/l

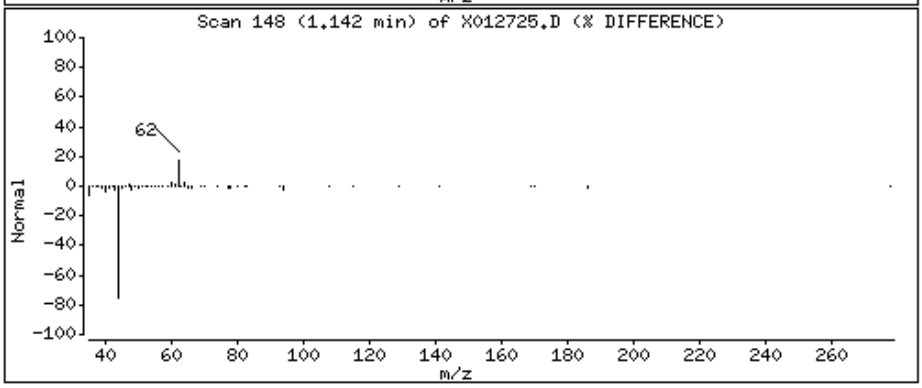












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D Page 3

Date : 27-JAN-2023 16:15

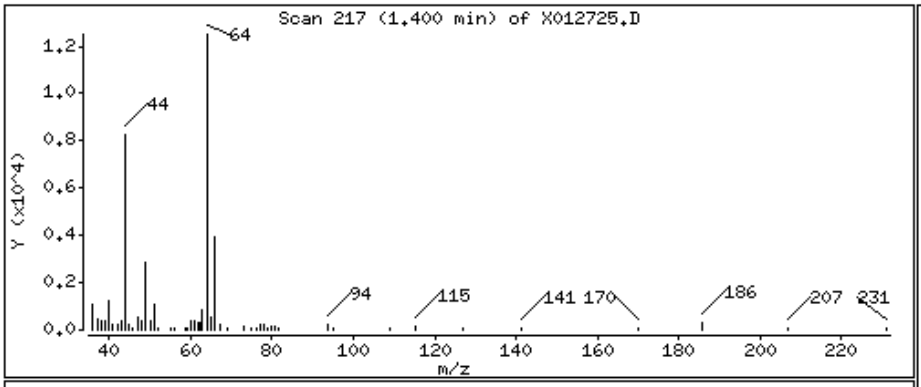
Client ID: HS23011165-06 Instrument: voa6.i

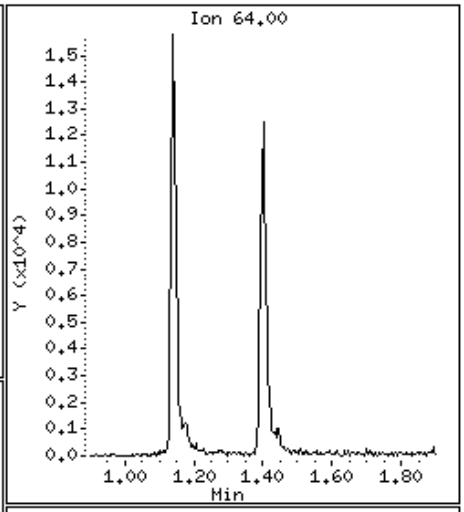
Sample Info: HS23011165-06;HS23011165-06;;;

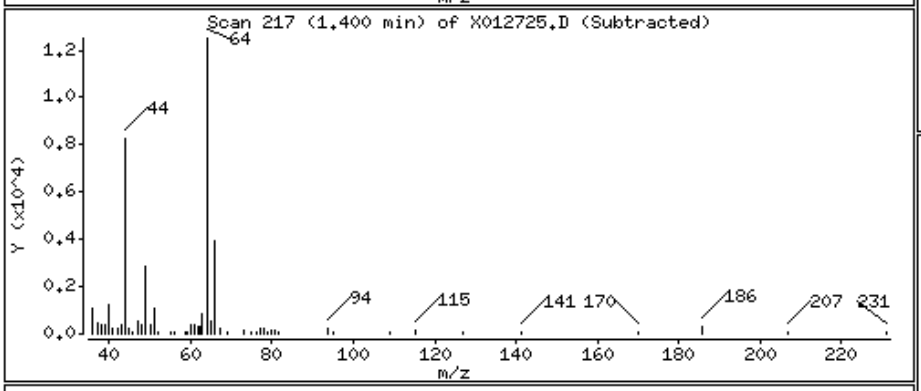
Purge Volume: 5.0 Operator: FT

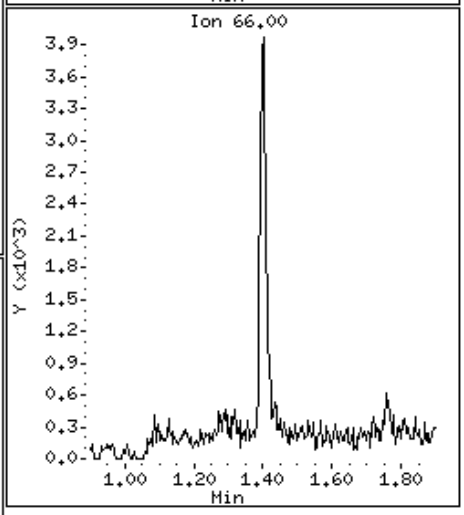
Column phase: DB624 Column diameter: 0.18

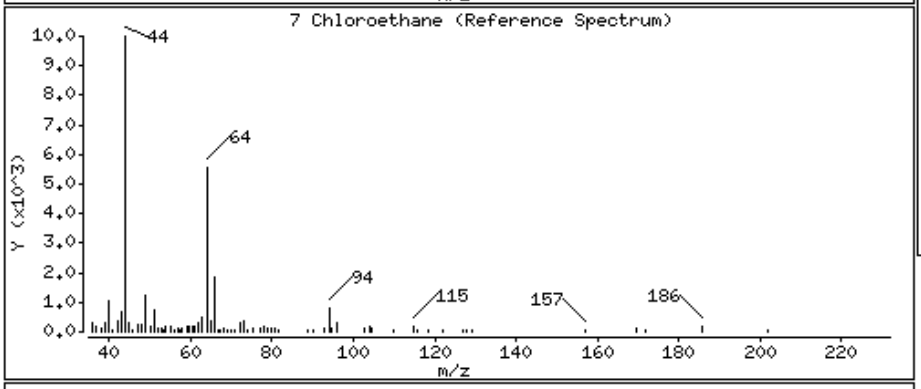
7 Chloroethane Concentration: 3.95 ug/l

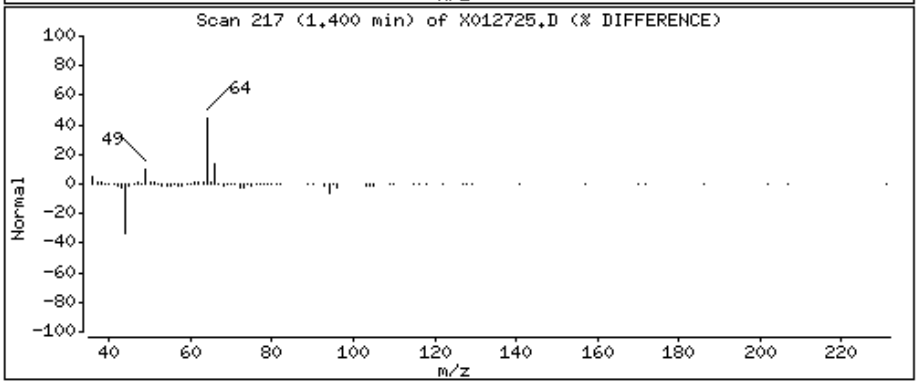












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D Page 4

Date : 27-JAN-2023 16:15

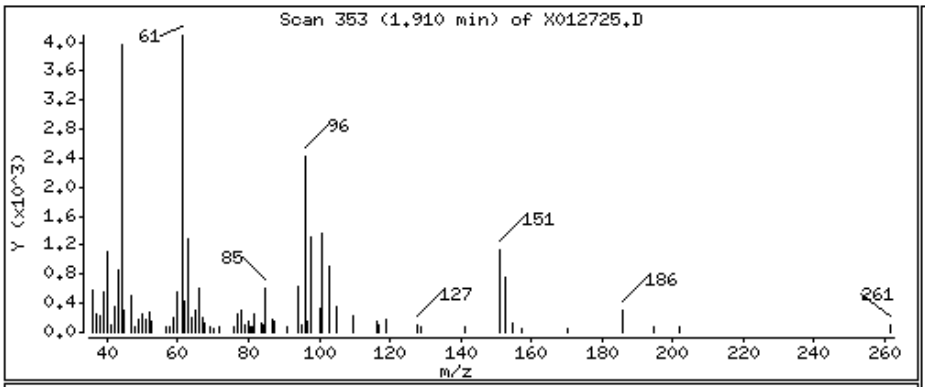
Client ID: HS23011165-06 Instrument: voa6.i

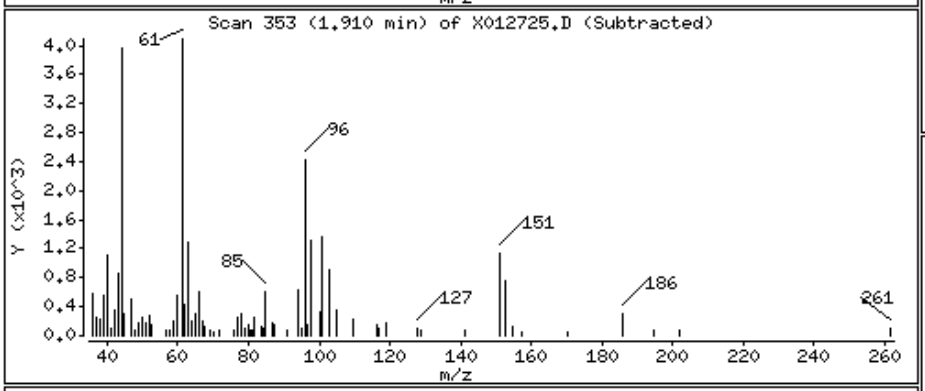
Sample Info: HS23011165-06;HS23011165-06;;;

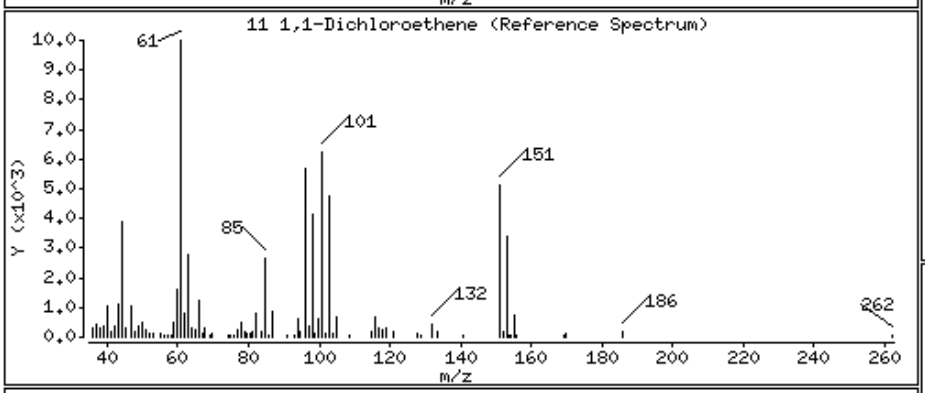
Purge Volume: 5.0 Operator: FT

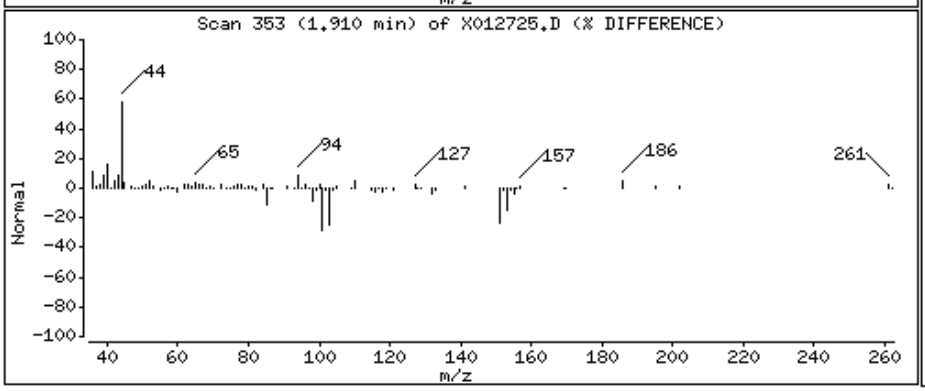
Column phase: DB624 Column diameter: 0.18

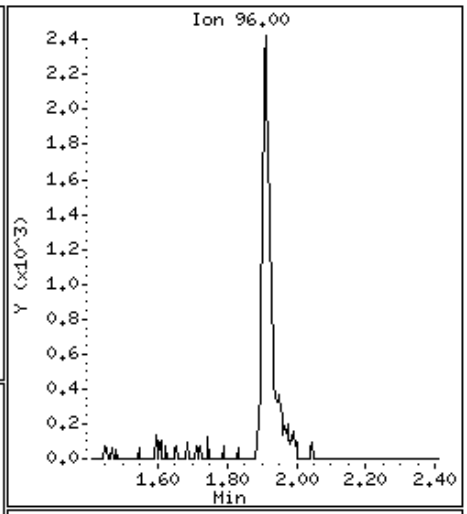
11 1,1-Dichloroethene Concentration: 0.86 ug/l

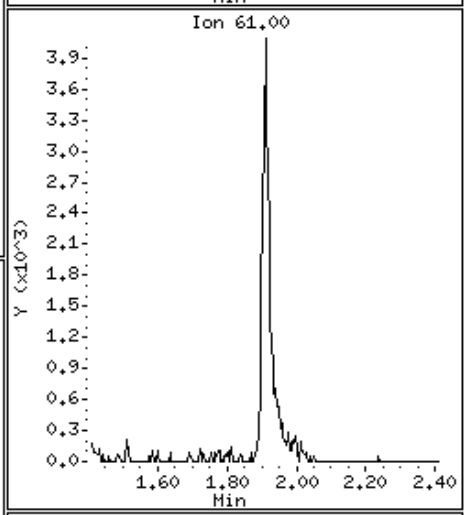


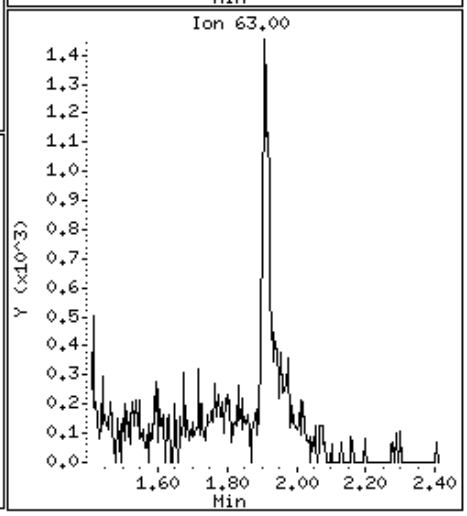












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D Page 5

Date : 27-JAN-2023 16:15

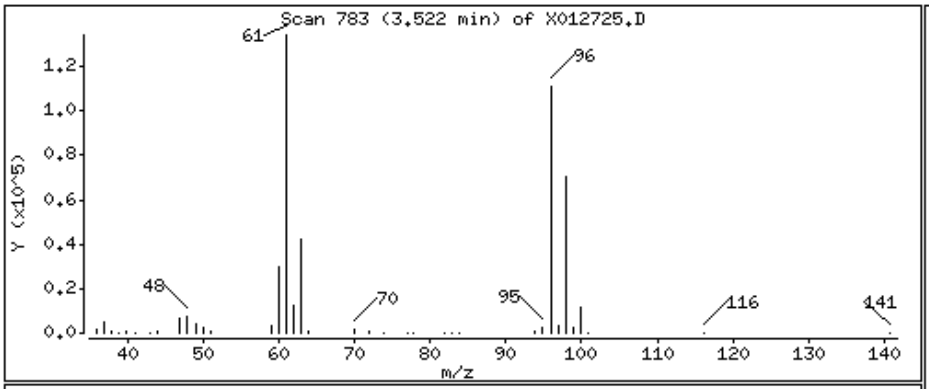
Client ID: HS23011165-06 Instrument: voa6.i

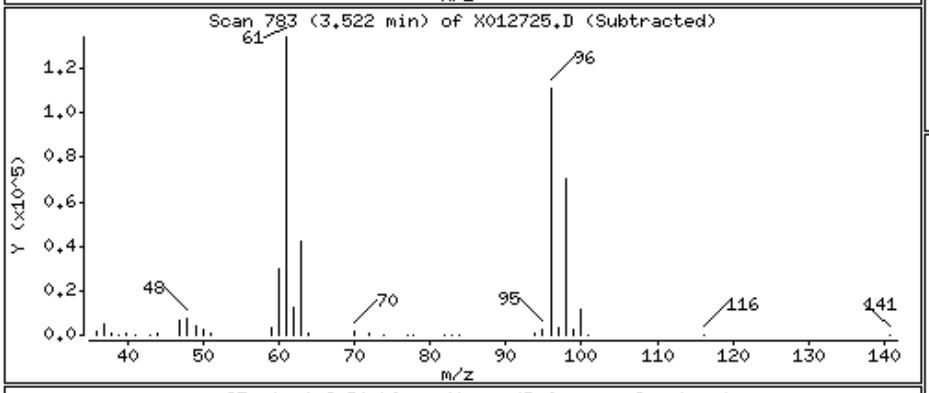
Sample Info: HS23011165-06;HS23011165-06;;;

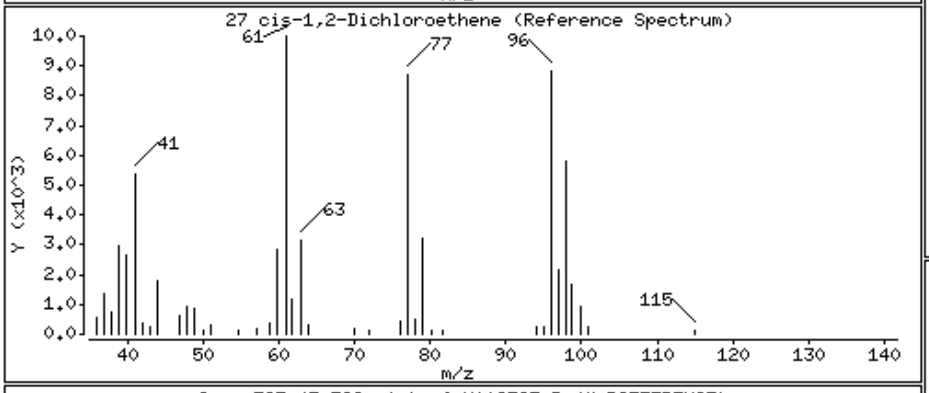
Purge Volume: 5.0 Operator: FT

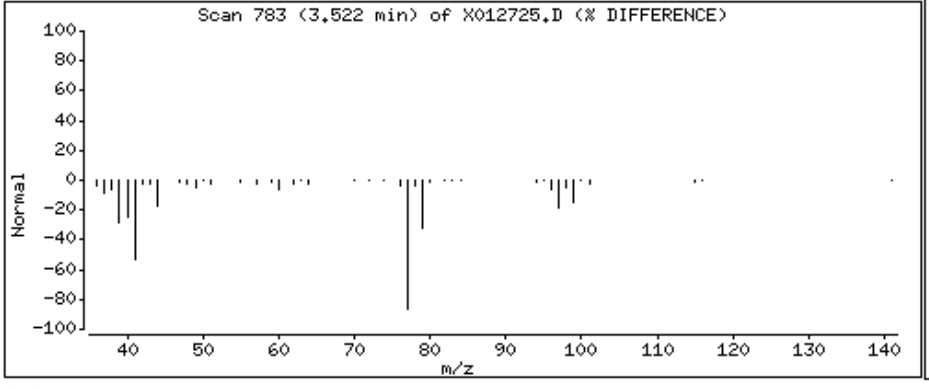
Column phase: DB624 Column diameter: 0.18

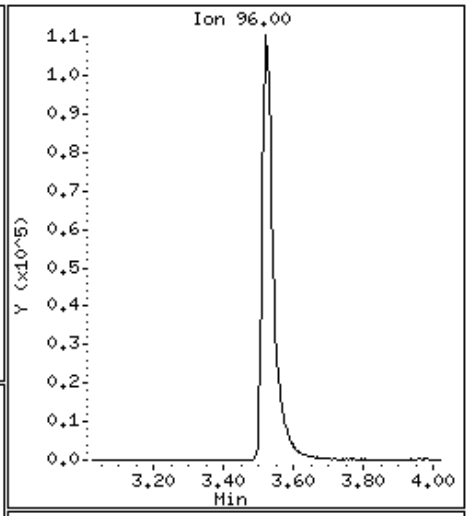
27 cis-1,2-Dichloroethene Concentration: 37.42 ug/l

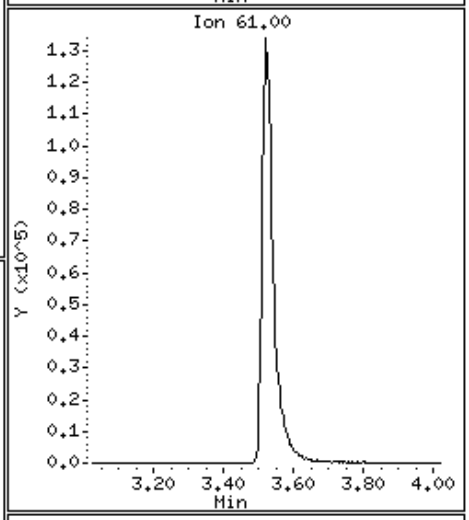


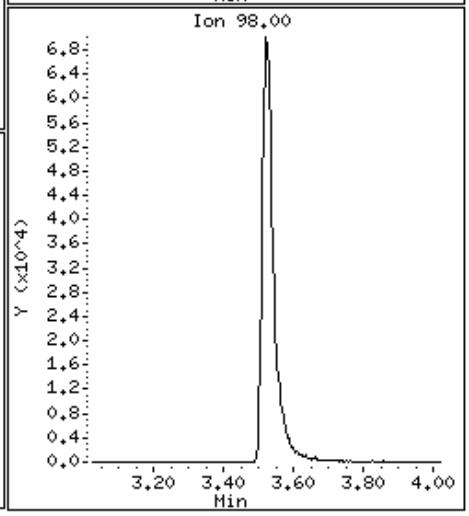












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012725.D Page 6

Date : 27-JAN-2023 16:15

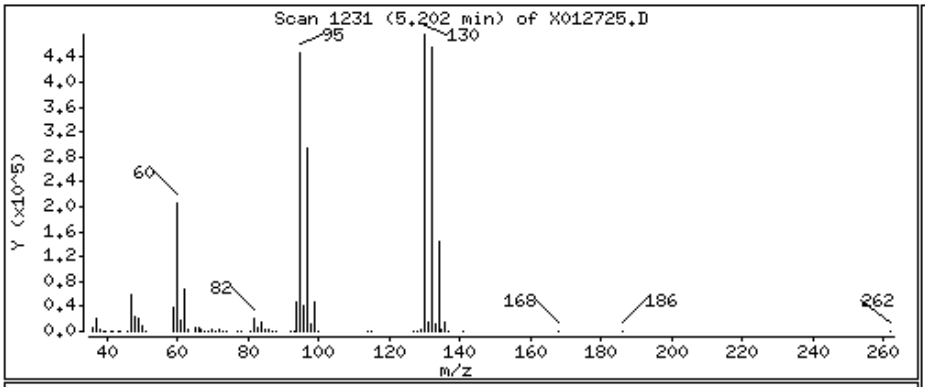
Client ID: HS23011165-06 Instrument: voa6.i

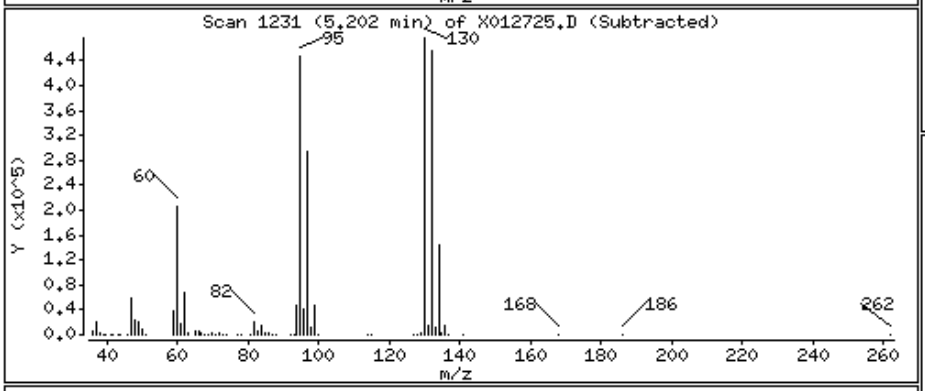
Sample Info: HS23011165-06;HS23011165-06;;;

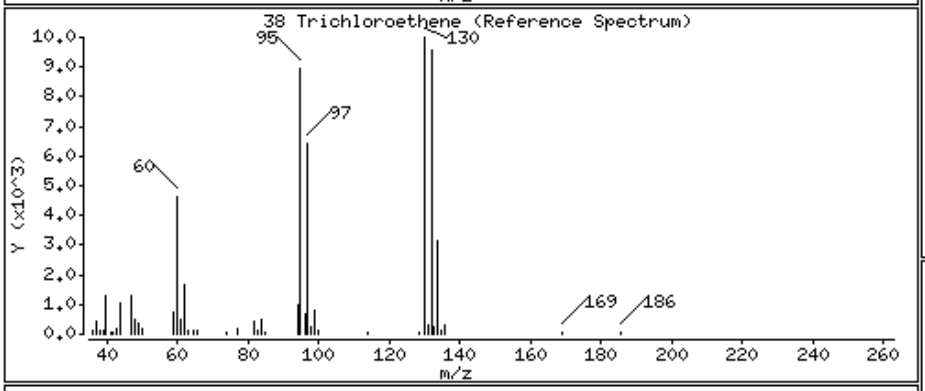
Purge Volume: 5.0 Operator: FT

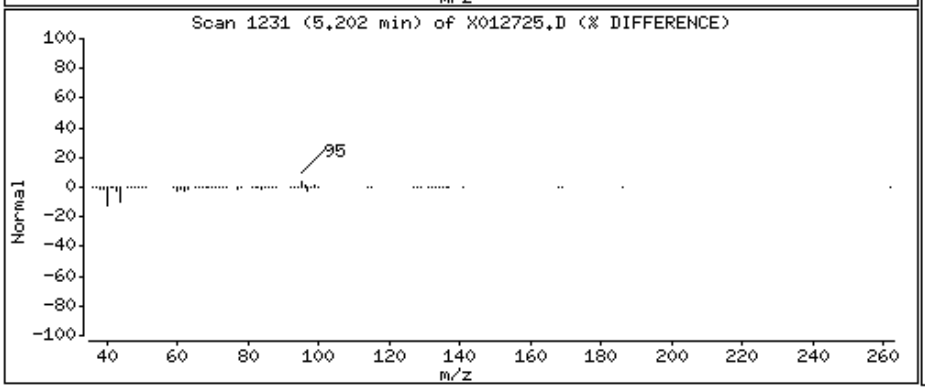
Column phase: DB624 Column diameter: 0.18

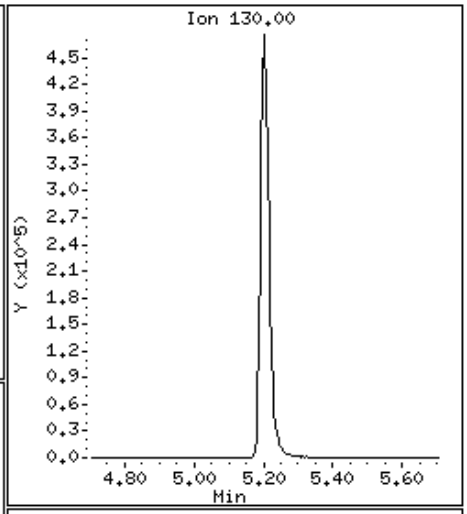
38 Trichloroethene Concentration: 133.76 ug/l

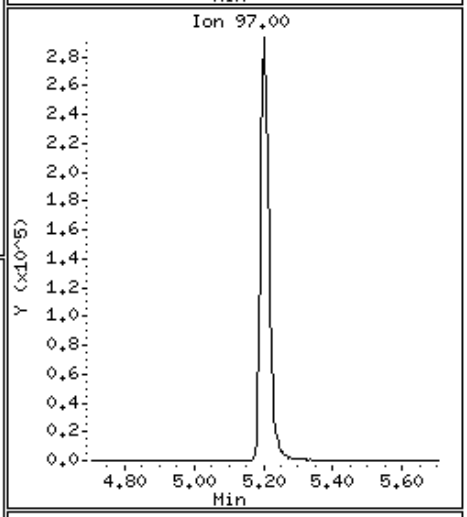


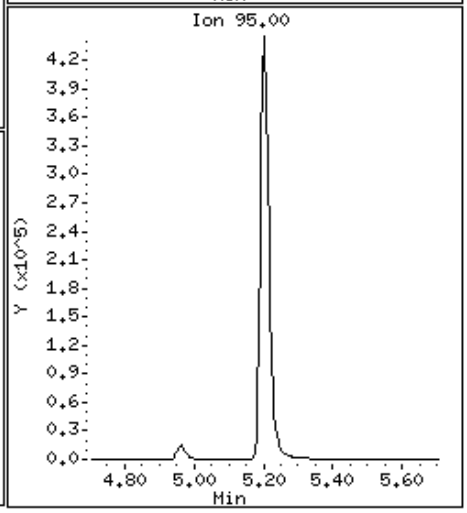












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Inj Date : 27-JAN-2023 16:15
InstruID : voa6.i
LabSampID : HS23011165-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D
Lab Smp Id: HS23011165-07 Client Smp ID: HS23011165-07
Inj Date : 27-JAN-2023 16:36
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-07;HS23011165-07;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

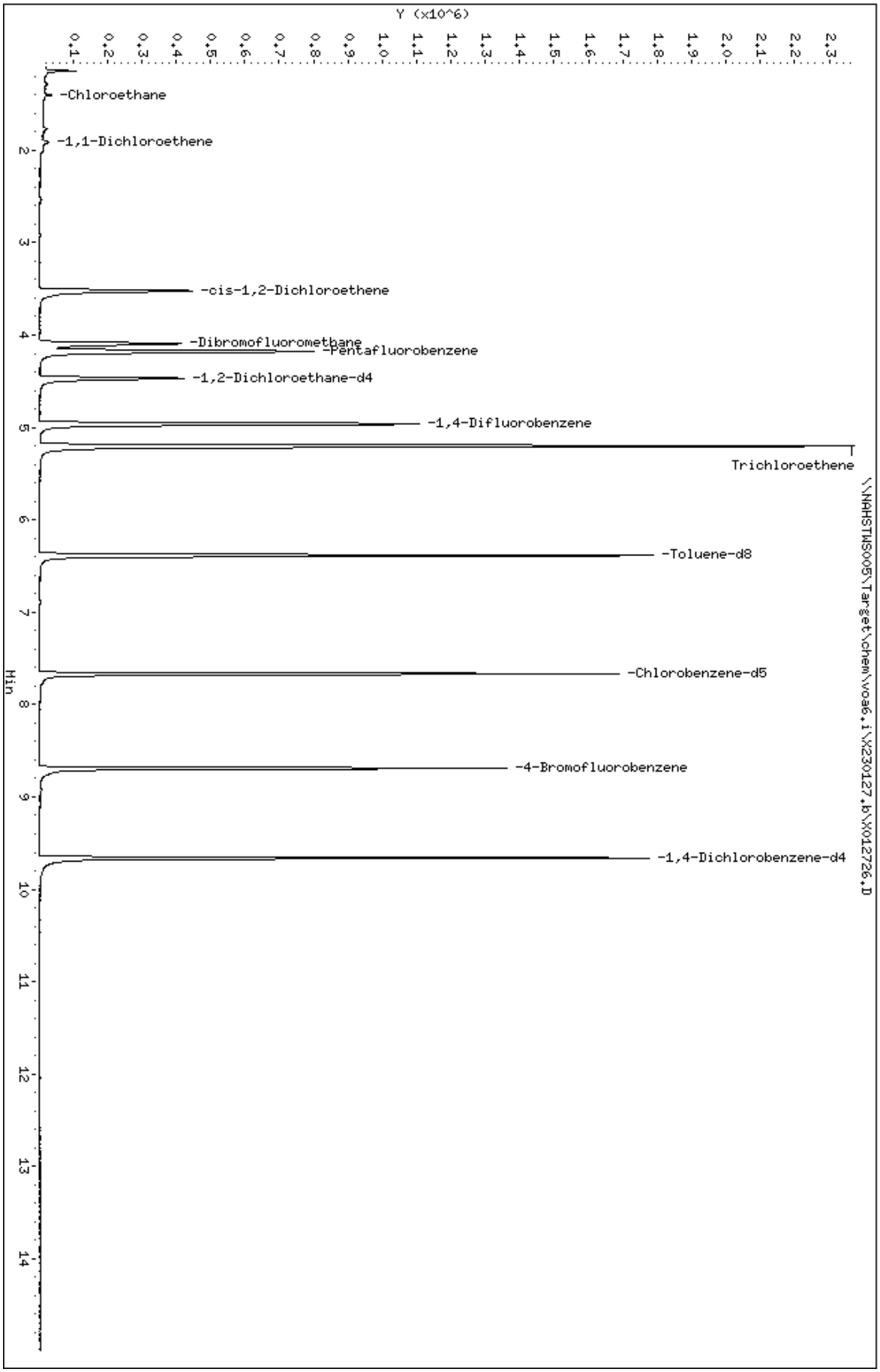
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.178	4.174	(1.000)	652905	50.0000	
	5 Vinyl Chloride	62	1.141	1.137	(0.273)	59791	10.4832	10.48
	7 Chloroethane	64	1.396	1.400	(0.334)	15341	3.86442	3.86(H)
	11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	4181	0.84375	0.84
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	247278	36.6382	36.63
$	30 Dibromofluoromethane	113	4.095	4.091	(0.980)	294143	46.9087	46.90
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	331444	50.0892	50.08
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	916379	50.0000	
	38 Trichloroethene	130	5.205	5.201	(1.049)	788828	127.093	127.09
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	827860	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1068792	52.2458	52.24
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	391595	51.2105	51.21
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	442994	50.0000	
M	94 1,2-Dichloroethylene (total)	96				247278	36.6382	36.63

QC Flag Legend

H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D
Date : 27-JAN-2023 16:36
Client ID: HS23011165-07
Sample Info: HS23011165-07;HS23011165-07;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D

Date : 27-JAN-2023 16:36

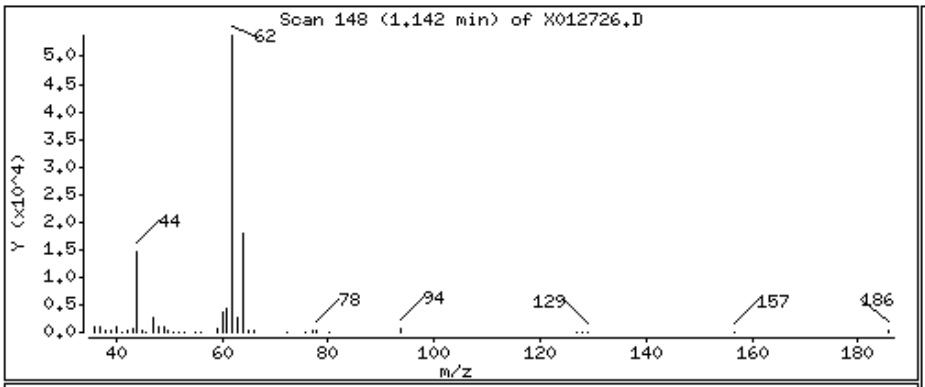
Client ID: HS23011165-07 Instrument: voa6.i

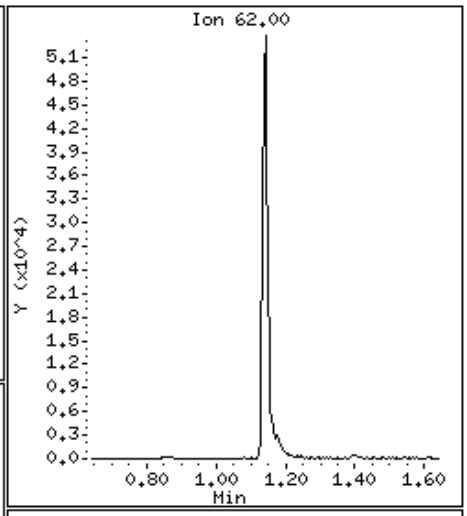
Sample Info: HS23011165-07;HS23011165-07;;;

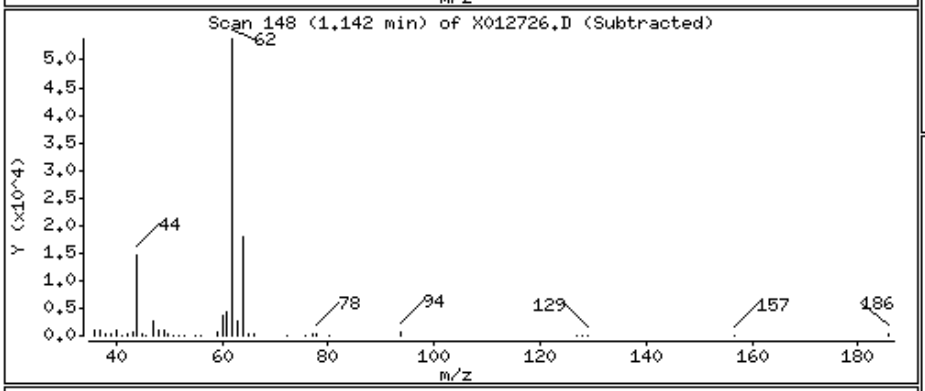
Purge Volume: 5.0 Operator: FT

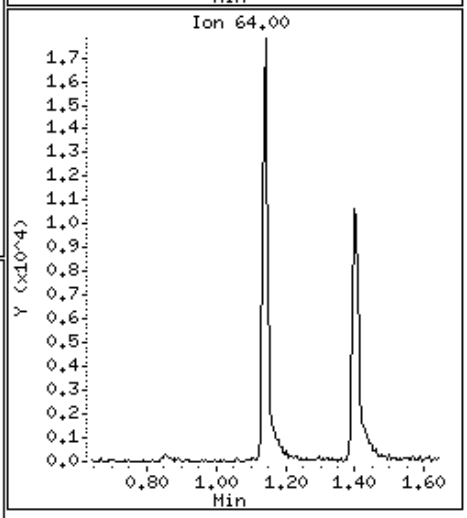
Column phase: DB624 Column diameter: 0.18

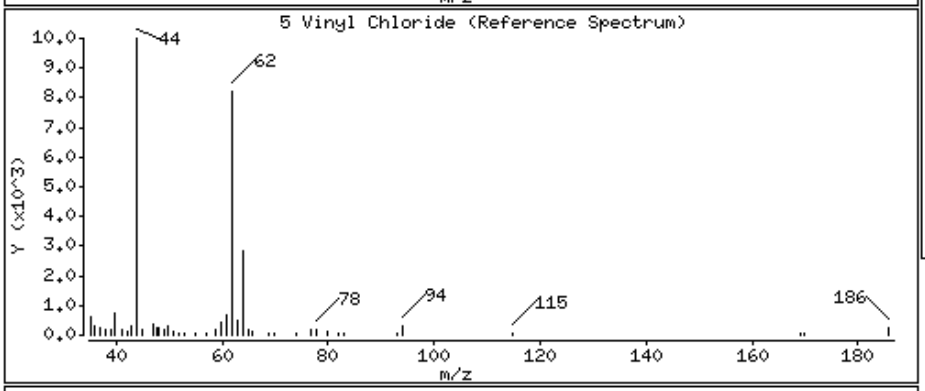
5 Vinyl Chloride Concentration: 10.48 ug/l

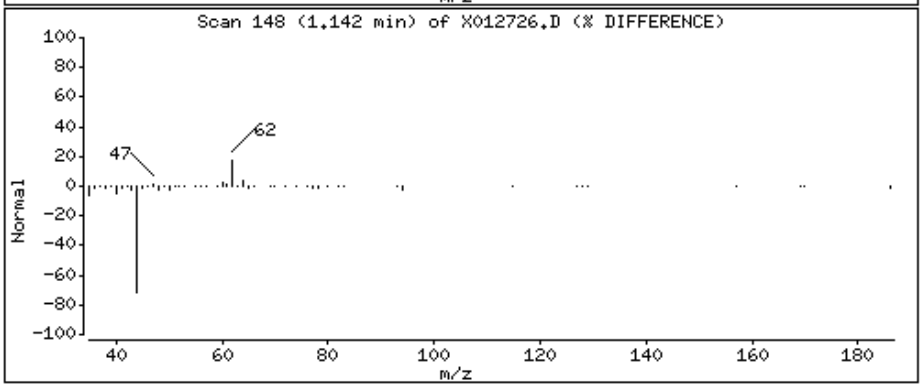












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D

Date : 27-JAN-2023 16:36

Client ID: HS23011165-07

Instrument: voa6.i

Sample Info: HS23011165-07;HS23011165-07;;;

Purge Volume: 5.0

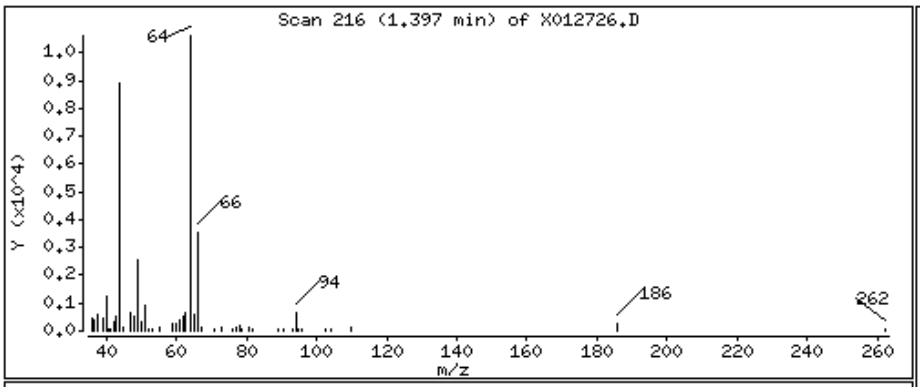
Operator: FT

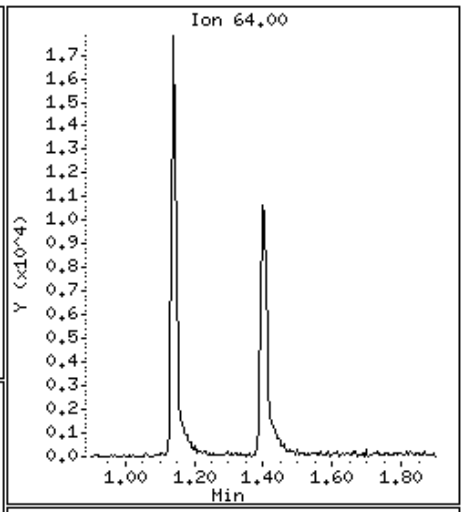
Column phase: DB624

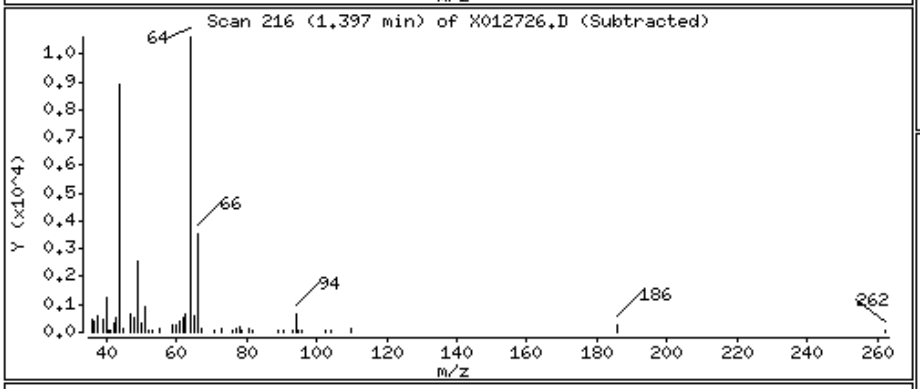
Column diameter: 0.18

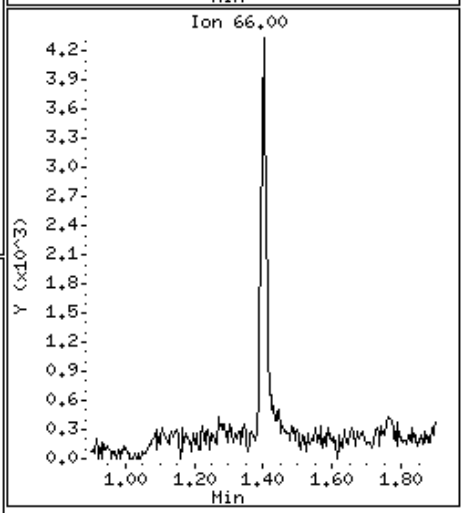
7 Chloroethane

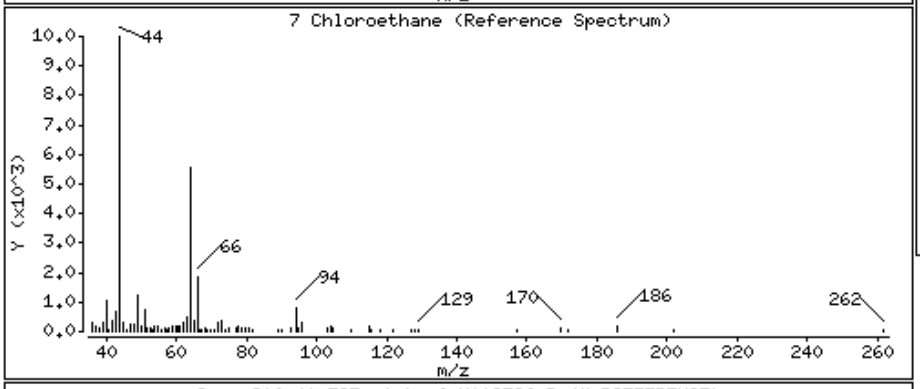
Concentration: 3.86 ug/l

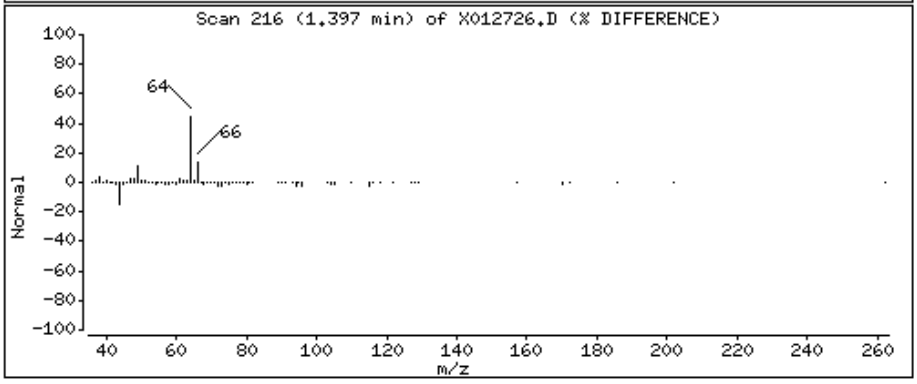












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D Page 4

Date : 27-JAN-2023 16:36

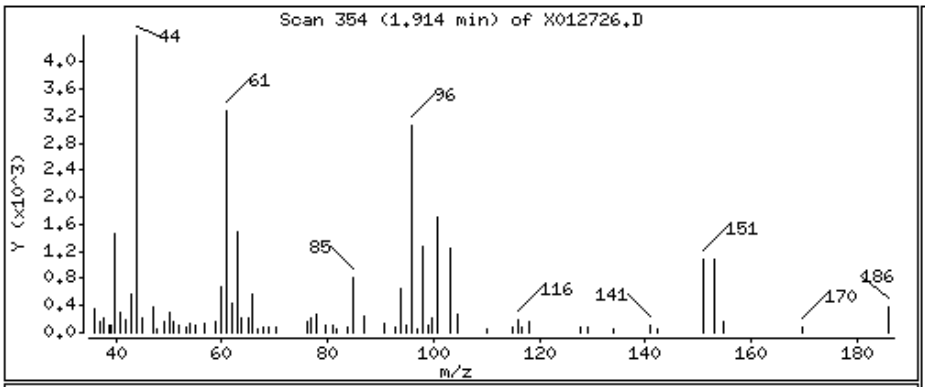
Client ID: HS23011165-07 Instrument: voa6.i

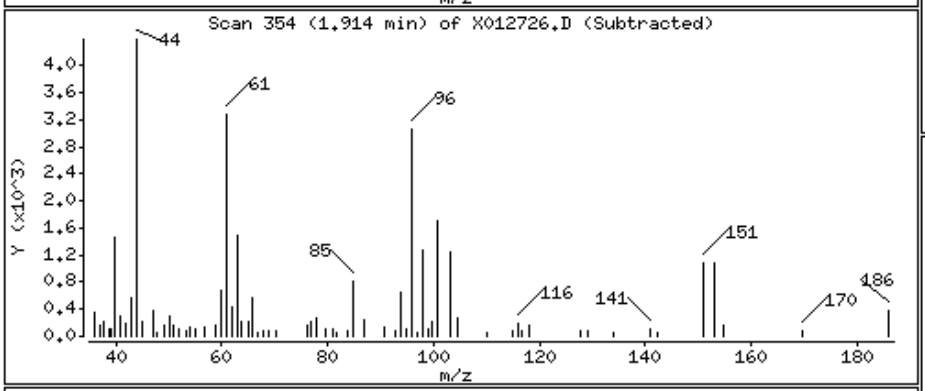
Sample Info: HS23011165-07;HS23011165-07;;;

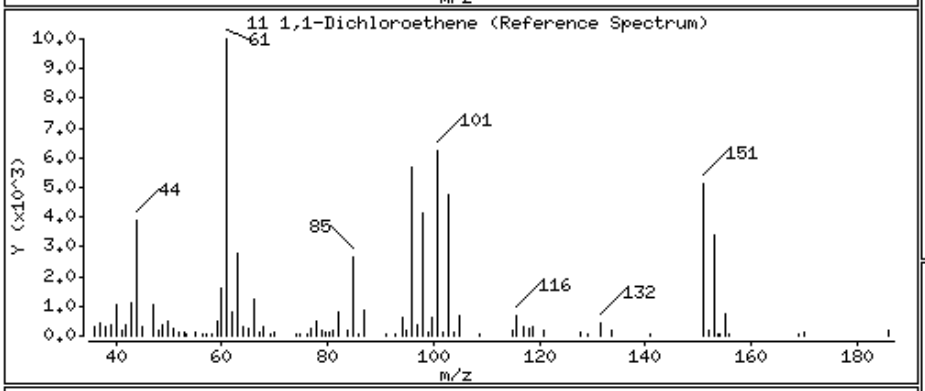
Purge Volume: 5.0 Operator: FT

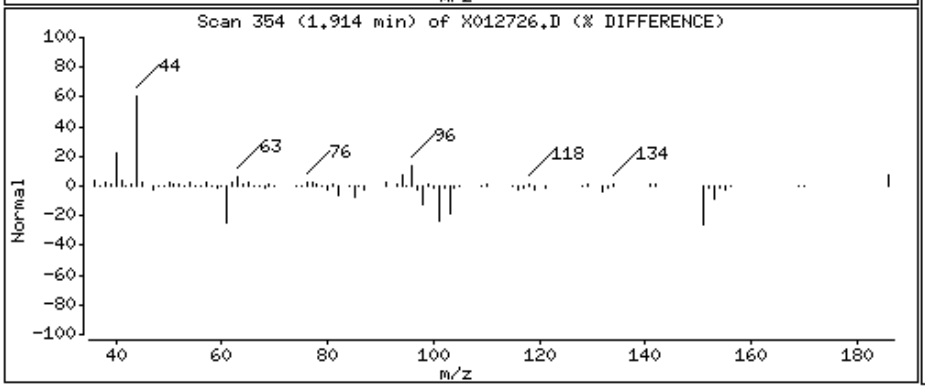
Column phase: DB624 Column diameter: 0.18

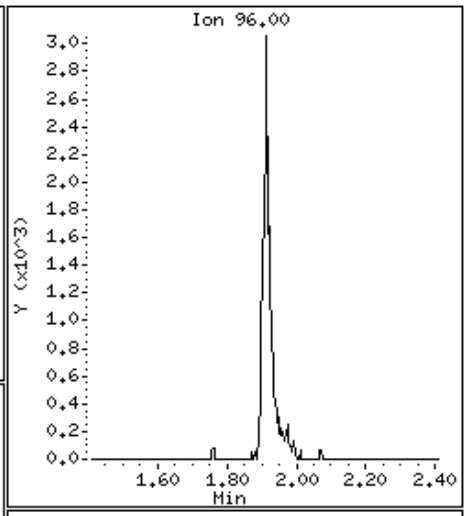
11 1,1-Dichloroethene Concentration: 0.84 ug/l

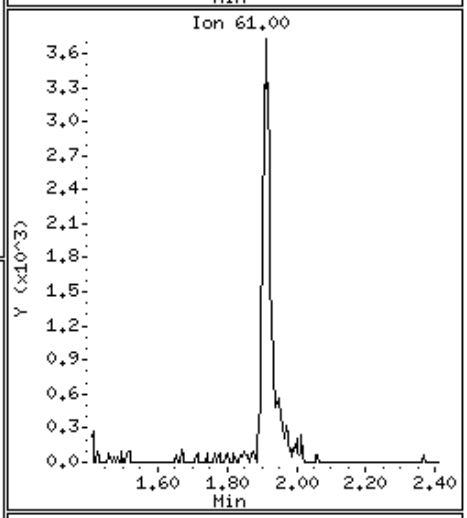


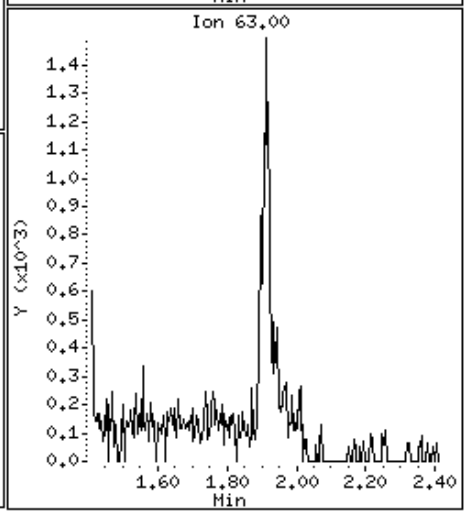












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D Page 5

Date : 27-JAN-2023 16:36

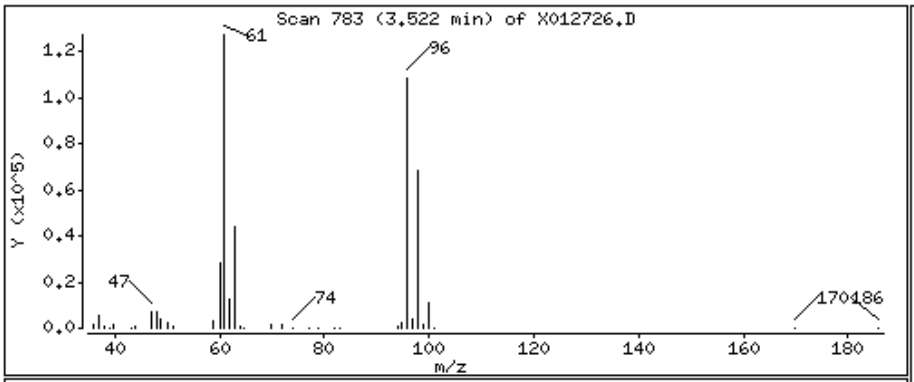
Client ID: HS23011165-07 Instrument: voa6.i

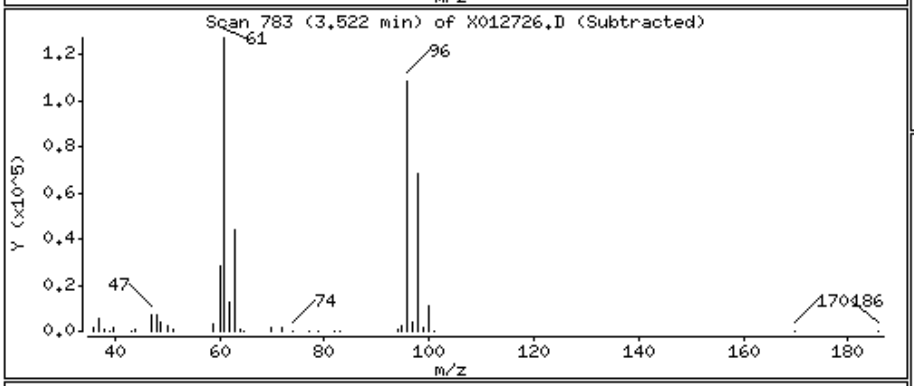
Sample Info: HS23011165-07;HS23011165-07;;;

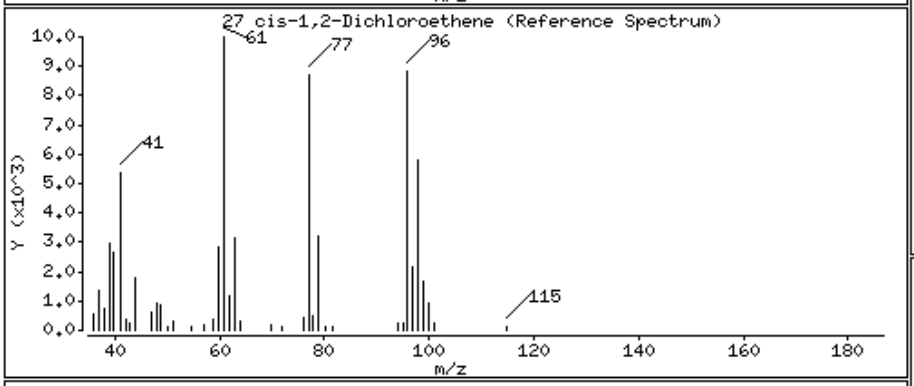
Purge Volume: 5.0 Operator: FT

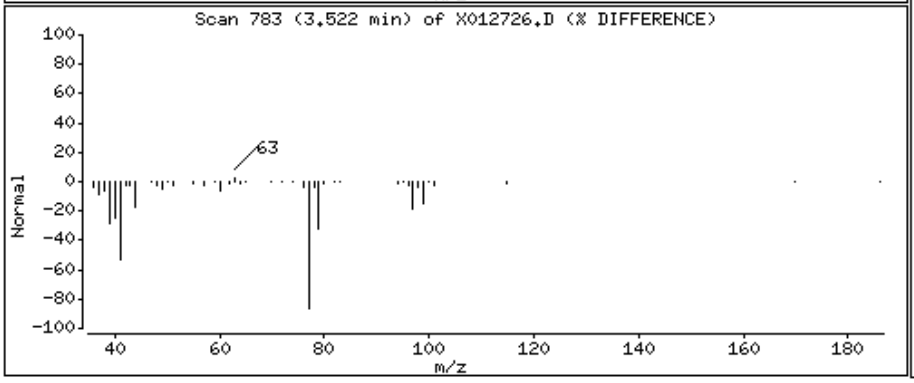
Column phase: DB624 Column diameter: 0.18

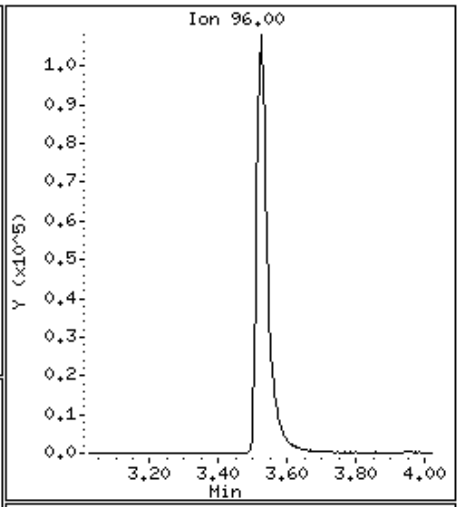
27 cis-1,2-Dichloroethene Concentration: 36.63 ug/l

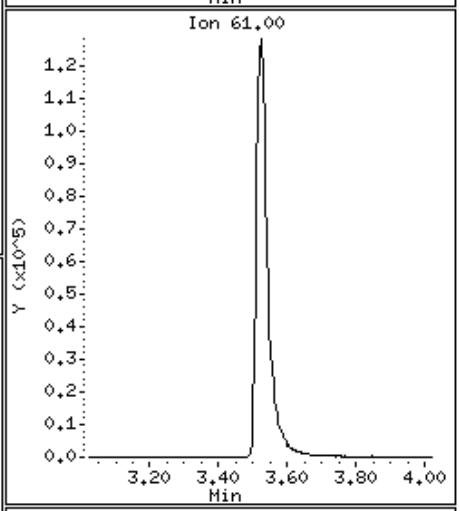


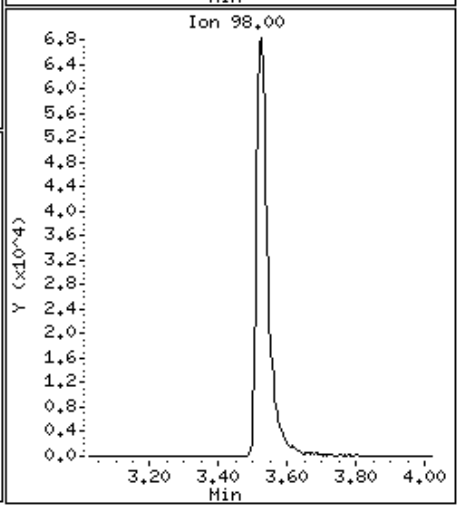












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012726.D Page 6

Date : 27-JAN-2023 16:36

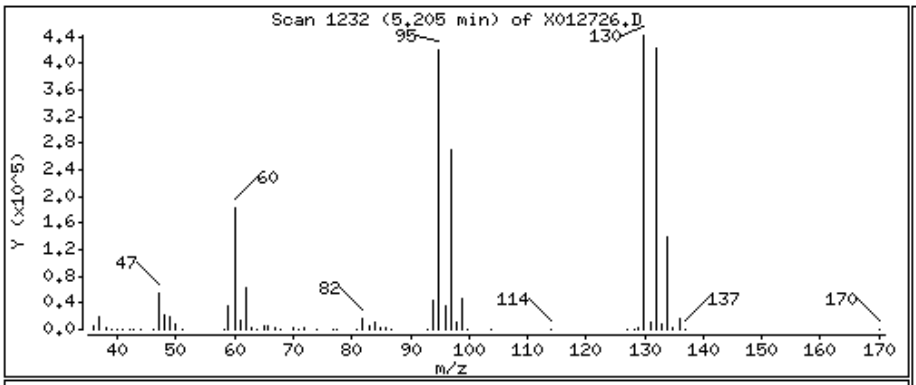
Client ID: HS23011165-07 Instrument: voa6.i

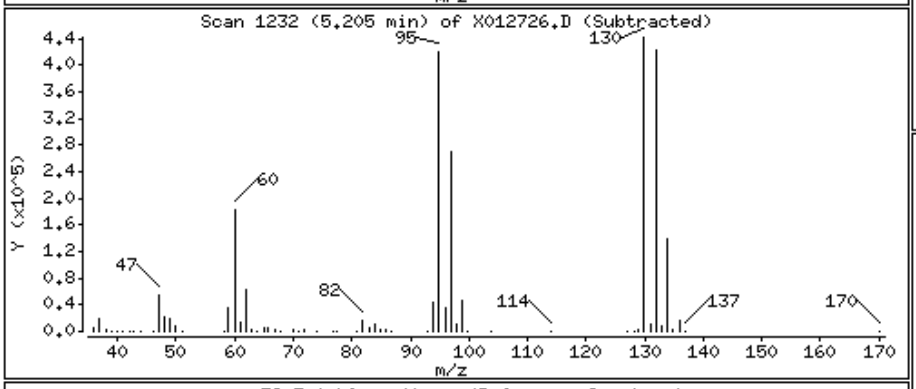
Sample Info: HS23011165-07;HS23011165-07;;;

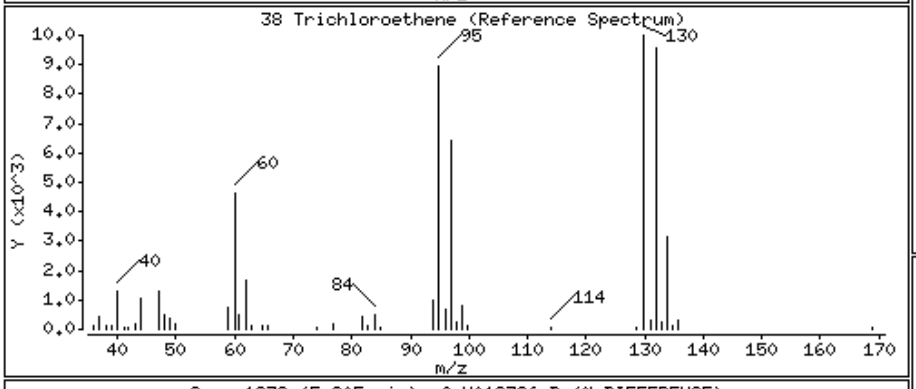
Purge Volume: 5.0 Operator: FT

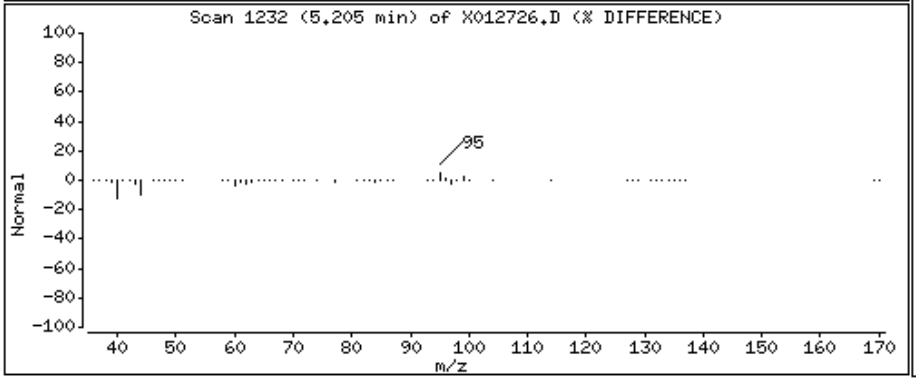
Column phase: DB624 Column diameter: 0.18

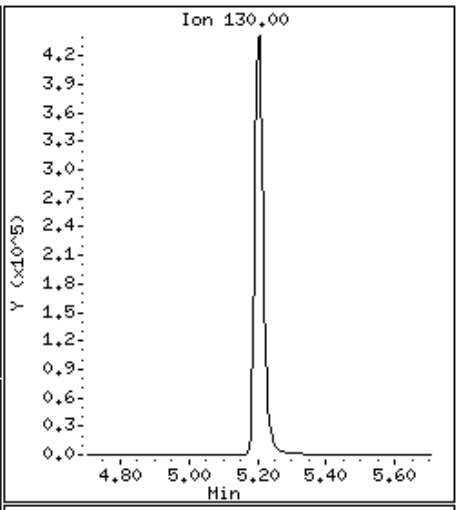
38 Trichloroethene Concentration: 127.09 ug/l

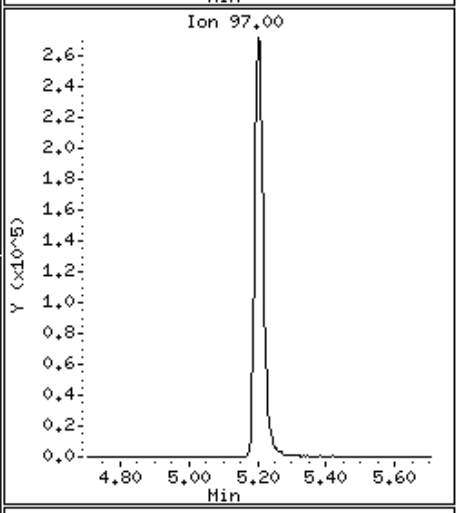


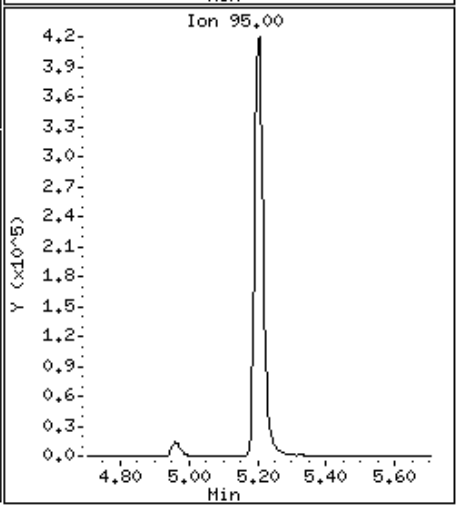












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Inj Date : 27-JAN-2023 16:36
InstruID : voa6.i
LabSampID : HS23011165-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012727.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012727.D
Lab Smp Id: HS23011165-08 Client Smp ID: HS23011165-08
Inj Date : 27-JAN-2023 16:57
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-08;HS23011165-08;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

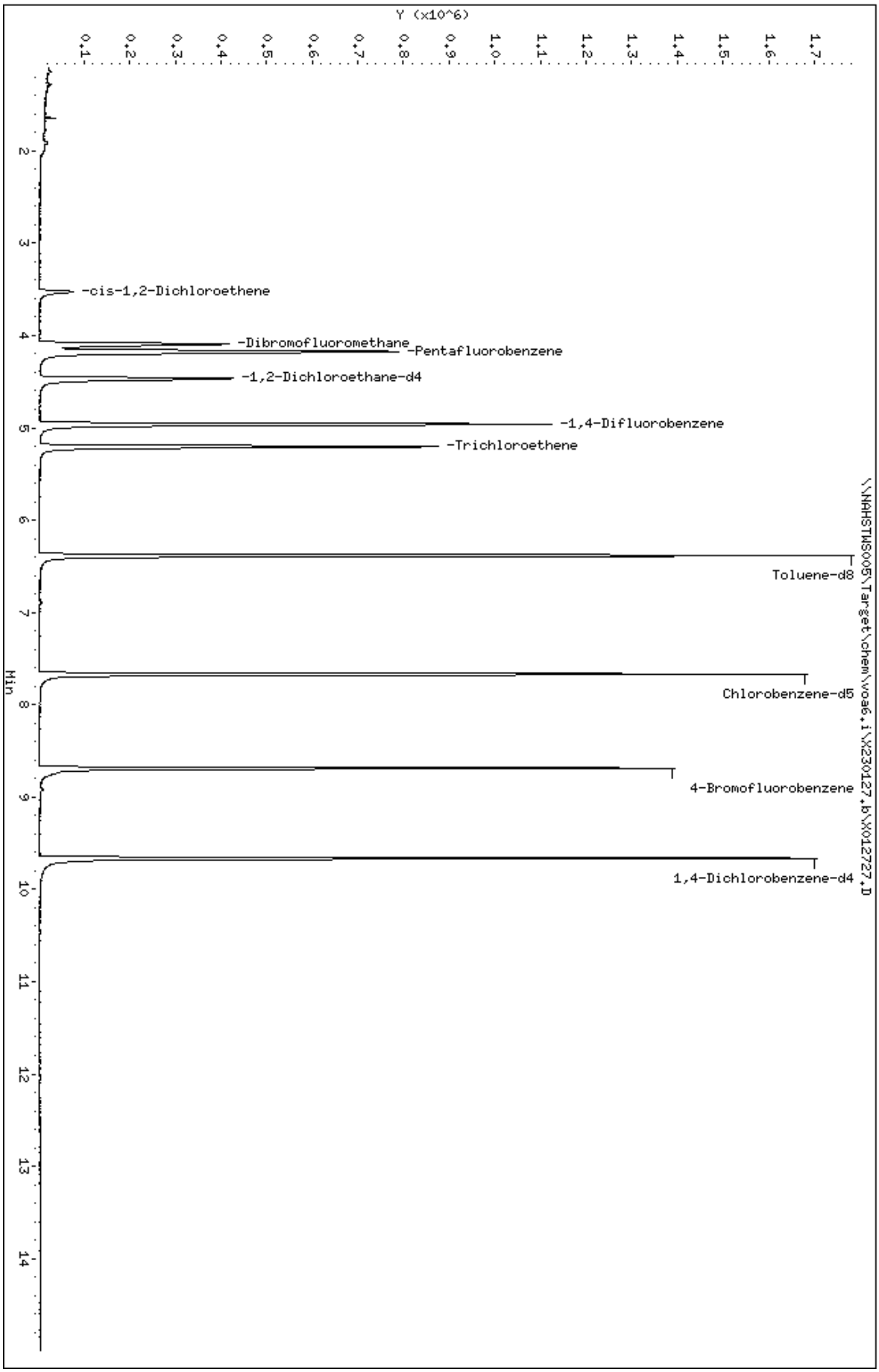
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.174	4.174	(1.000)	652918	50.0000	
	5 Vinyl Chloride	62	1.141	1.137	(0.273)	5381	0.94344	0.94
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.845)	44892	6.65134	6.65
$	30 Dibromofluoromethane	113	4.095	4.091	(0.981)	290662	46.3506	46.35
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	337418	50.9861	50.98
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	920530	50.0000	
	38 Trichloroethene	130	5.205	5.201	(1.049)	290685	46.6229	46.62
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	825163	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1066969	52.3271	52.32
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	388554	50.9792	50.97
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	432425	50.0000	
M	94 1,2-Dichloroethylene (total)	96				44892	6.65134	6.65(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012727.D
Date : 27-JAN-2023 16:57
Client ID: HS23011165-08
Sample Info: HS23011165-08;HS23011165-08;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012727.D

Date : 27-JAN-2023 16:57

Client ID: HS23011165-08

Instrument: voa6.i

Sample Info: HS23011165-08;HS23011165-08;;;

Purge Volume: 5.0

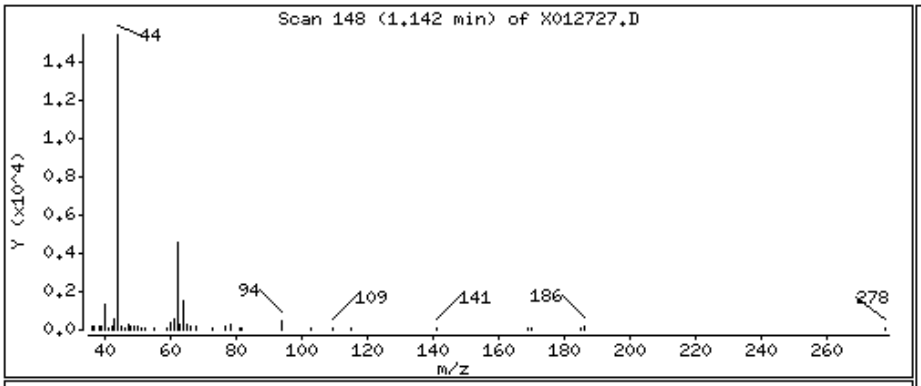
Operator: FT

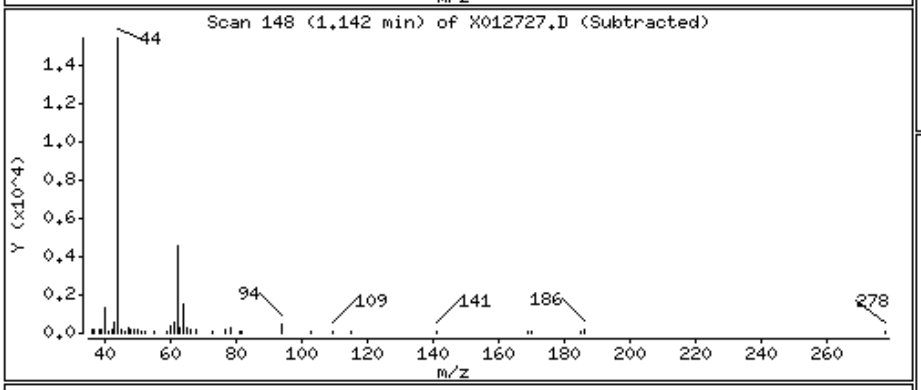
Column phase: DB624

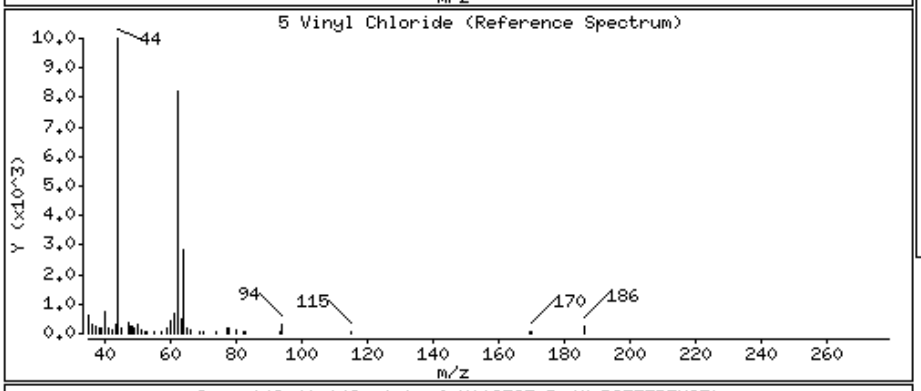
Column diameter: 0.18

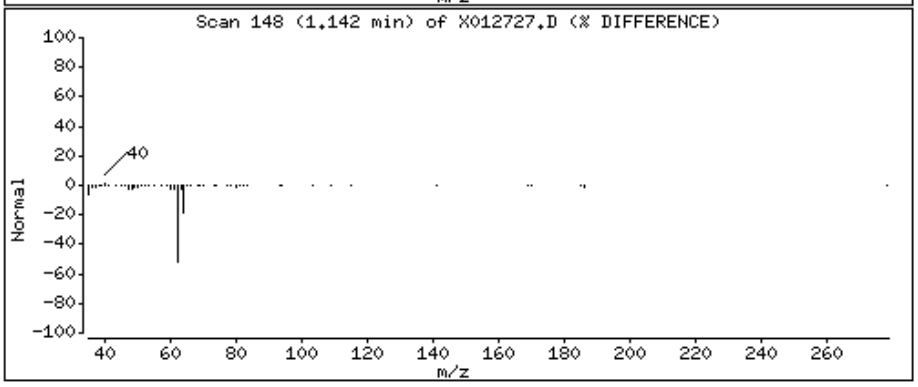
5 Vinyl Chloride

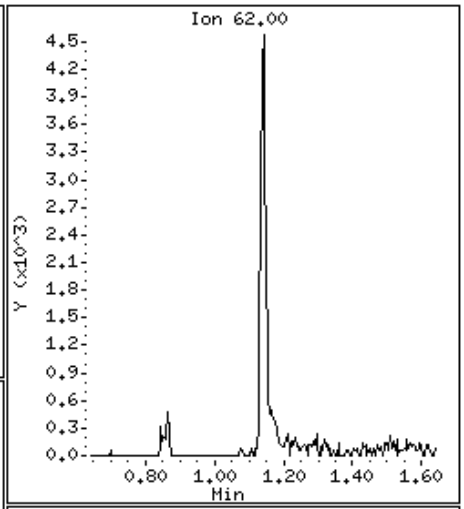
Concentration: 0.94 ug/l

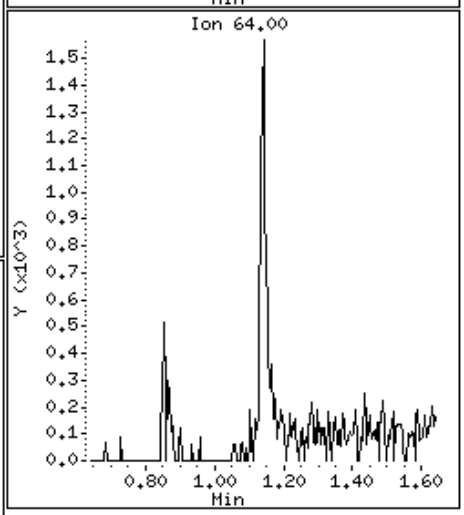












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012727.D

Date : 27-JAN-2023 16:57

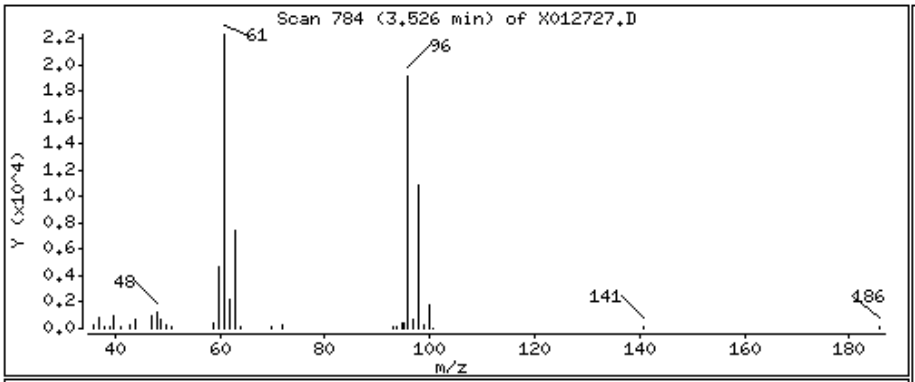
Client ID: HS23011165-08 Instrument: voa6.i

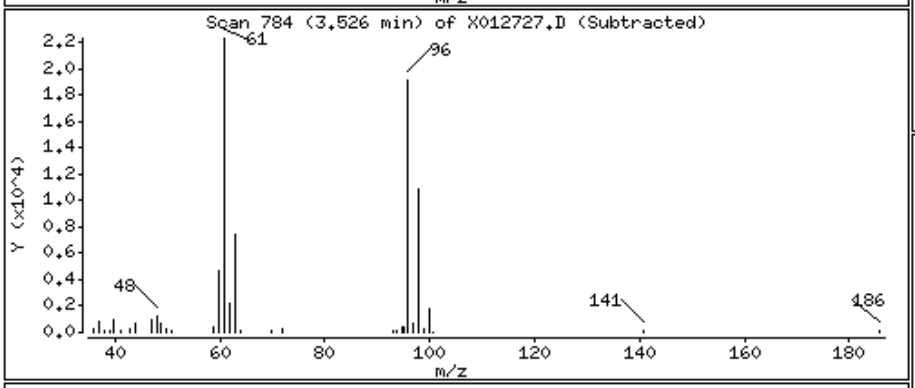
Sample Info: HS23011165-08;HS23011165-08;;;

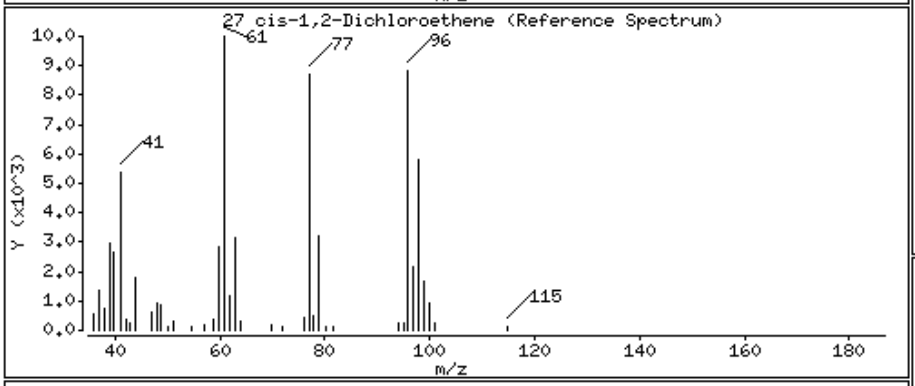
Purge Volume: 5.0 Operator: FT

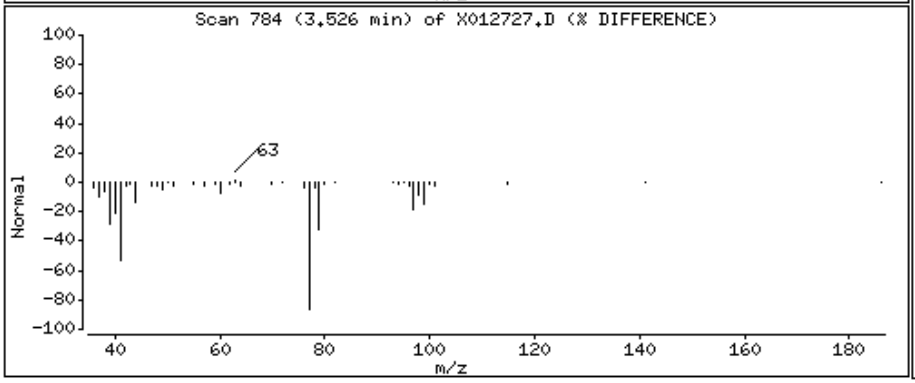
Column phase: DB624 Column diameter: 0.18

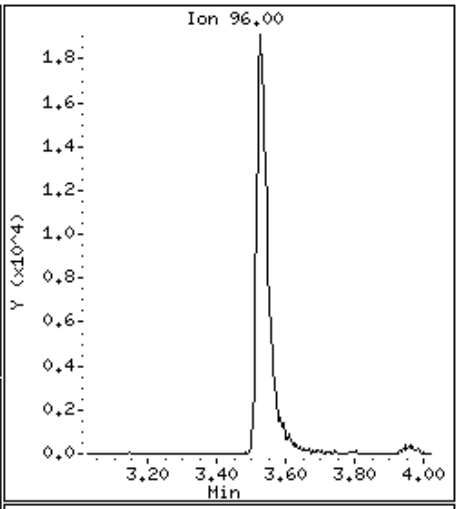
27 cis-1,2-Dichloroethene Concentration: 6.65 ug/l

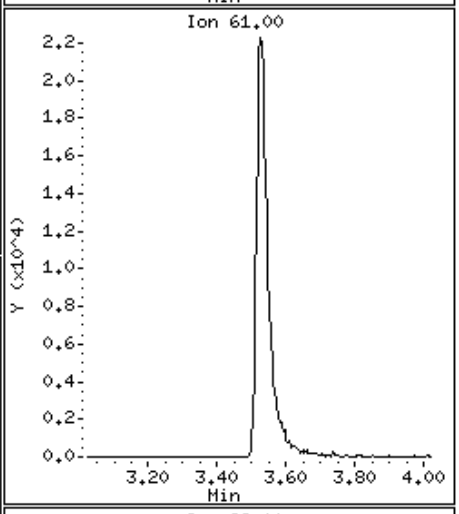


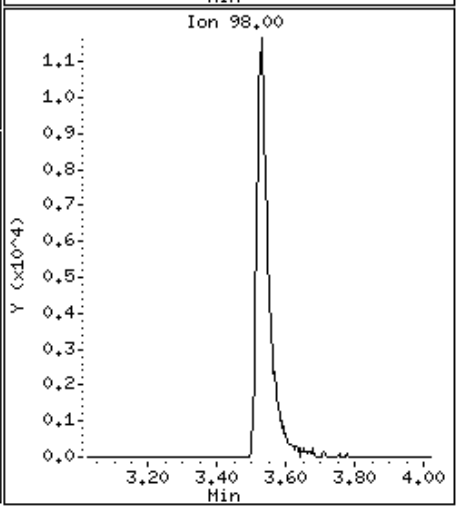












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012727.D Page 4

Date : 27-JAN-2023 16:57

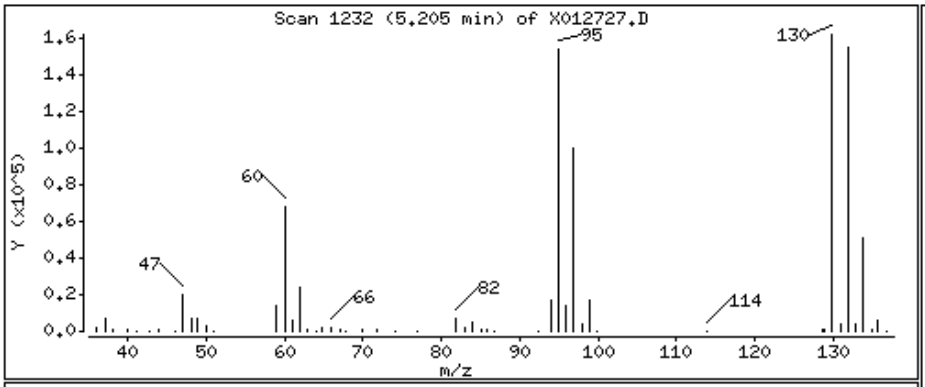
Client ID: HS23011165-08 Instrument: voa6.i

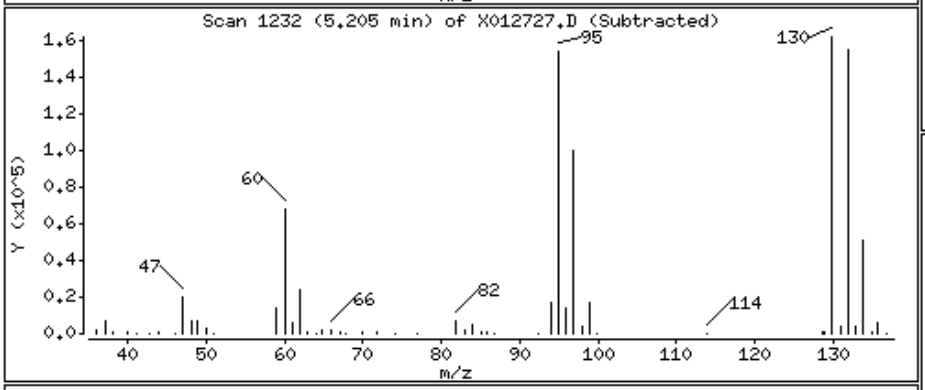
Sample Info: HS23011165-08;HS23011165-08;;;

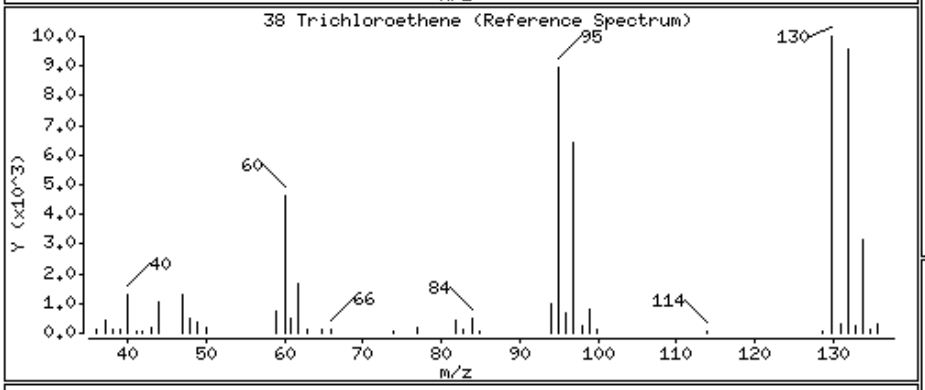
Purge Volume: 5.0 Operator: FT

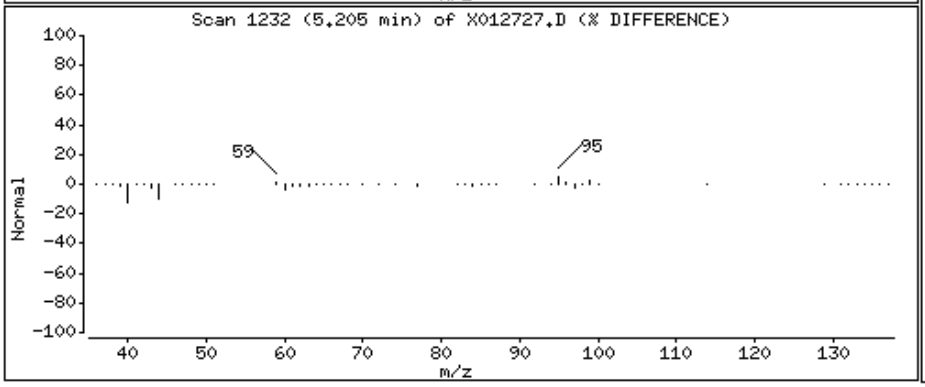
Column phase: DB624 Column diameter: 0.18

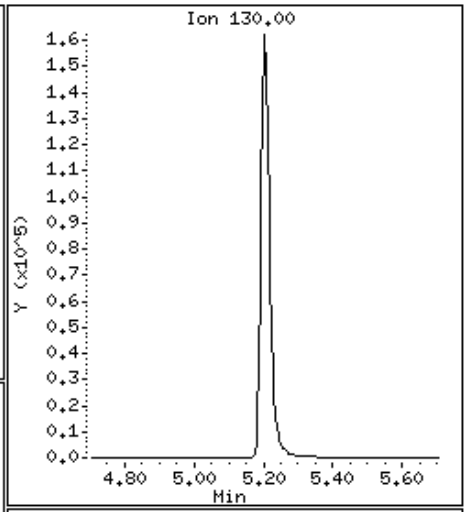
38 Trichloroethene Concentration: 46.62 ug/l

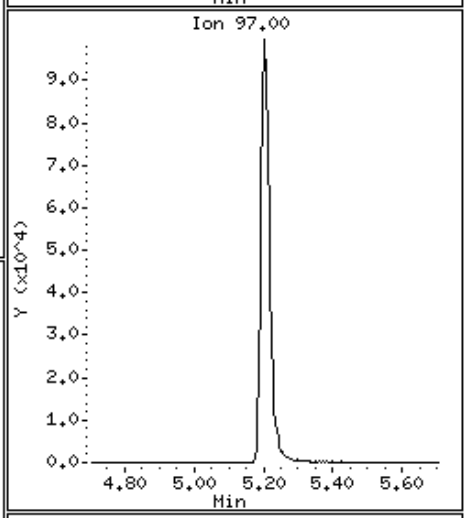


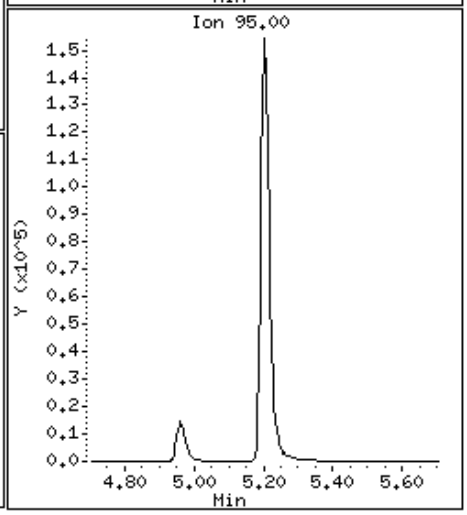












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Inj Date : 27-JAN-2023 16:57
InstruID : voa6.i
LabSampID : HS23011165-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012728.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012728.D
Lab Smp Id: HS23011165-09 Client Smp ID: HS23011165-09
Inj Date : 27-JAN-2023 17:18
Operator : FT Inst ID: voa6.i
Smp Info : HS23011165-09;HS23011165-09;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:49 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

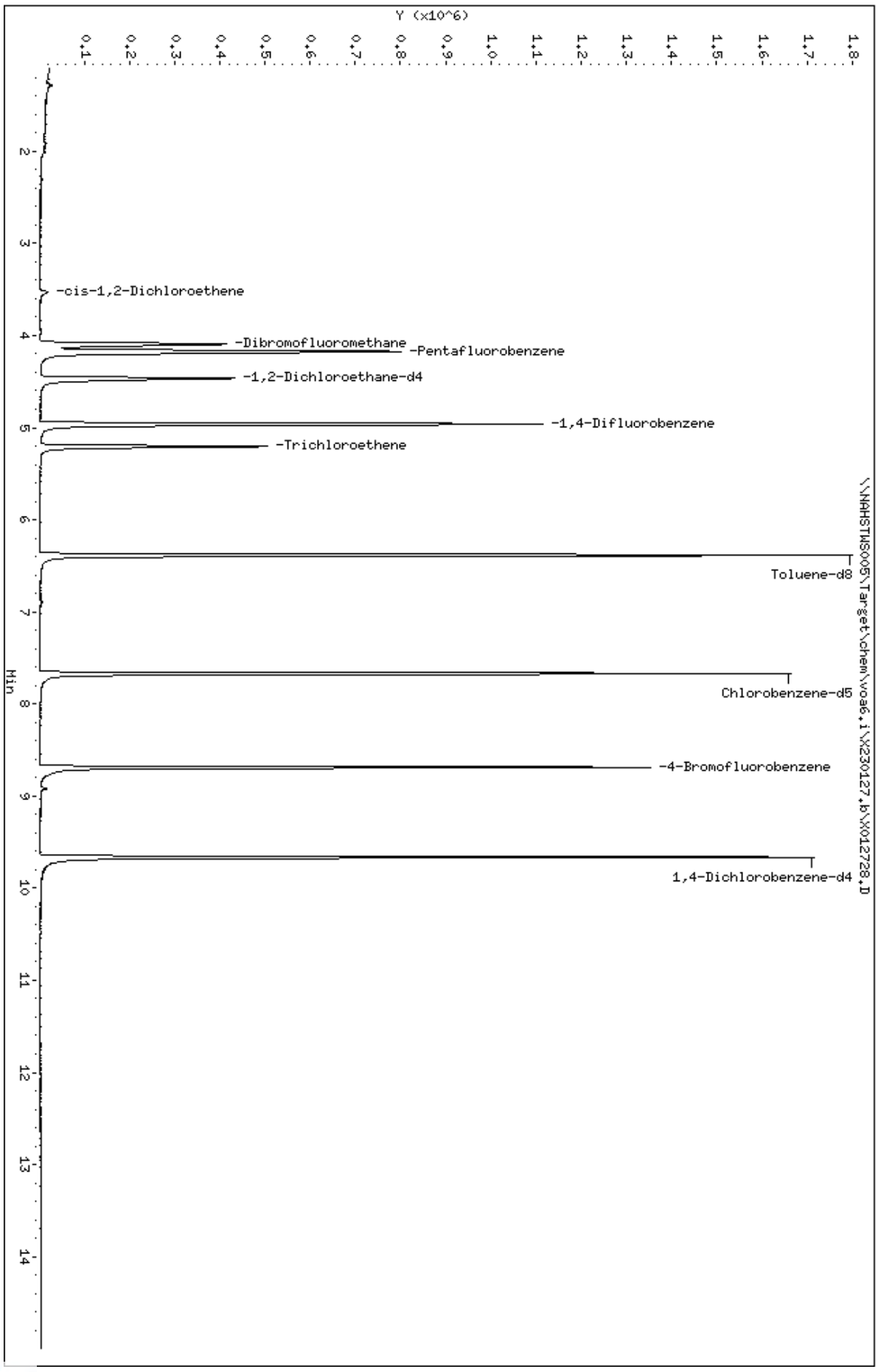
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.174	4.174	(1.000)	649739	50.0000	
	27 cis-1,2-Dichloroethene	96	3.533	3.522	(0.846)	9202	1.37007	1.37
$	30 Dibromofluoromethane	113	4.095	4.091	(0.981)	296515	47.5195	47.51
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	335542	50.9509	50.95
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	921641	50.0000	
	38 Trichloroethene	130	5.205	5.201	(1.049)	168040	26.9194	26.91
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	825620	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1061984	52.0538	52.05
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	385647	50.5703	50.57
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	433910	50.0000	
M	94 1,2-Dichloroethylene (total)	96				9202	1.37007	1.37(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012728.D
Date : 27-JAN-2023 17:18
Client ID: HS23011165-09
Sample Info: HS23011165-09;HS23011165-09;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012728.D Page 2

Date : 27-JAN-2023 17:18

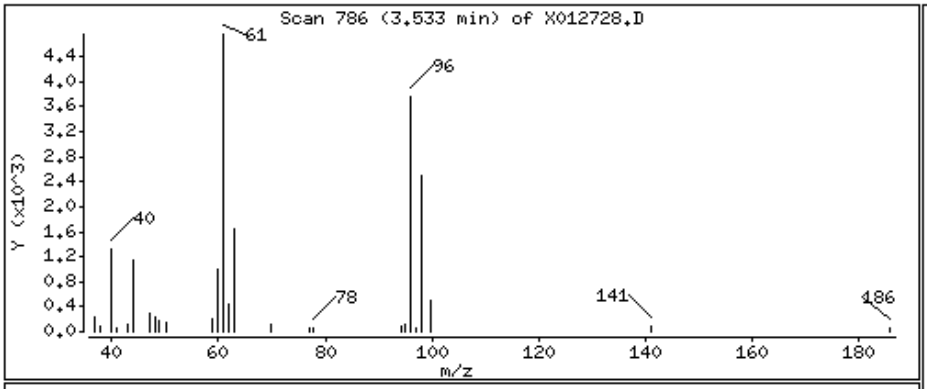
Client ID: HS23011165-09 Instrument: voa6.i

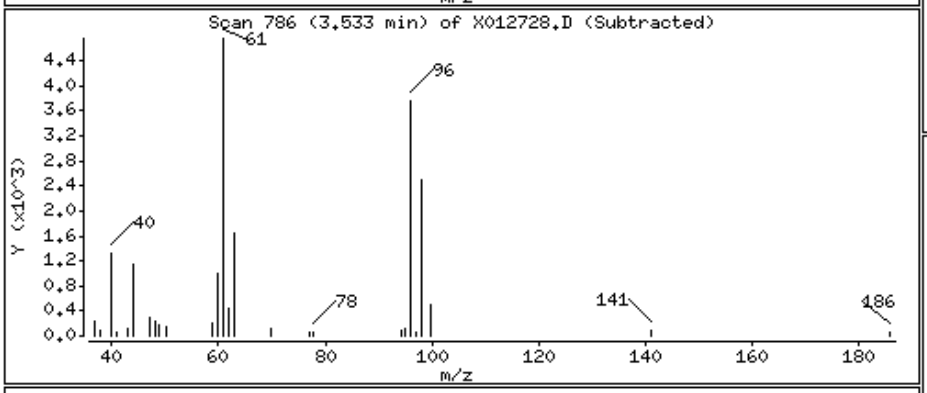
Sample Info: HS23011165-09;HS23011165-09;;;

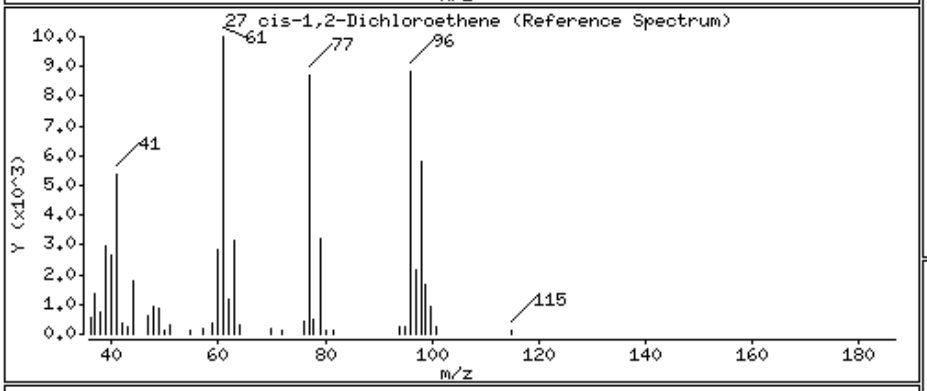
Purge Volume: 5.0 Operator: FT

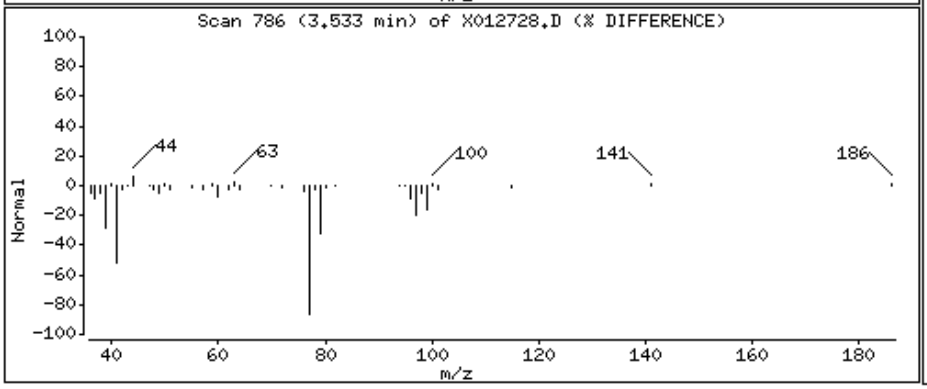
Column phase: DB624 Column diameter: 0.18

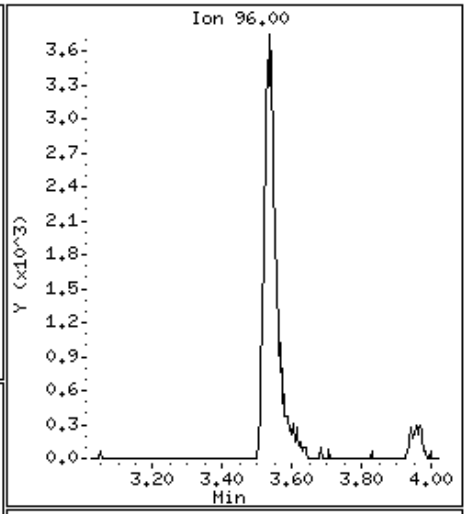
27 cis-1,2-Dichloroethene Concentration: 1.37 ug/l

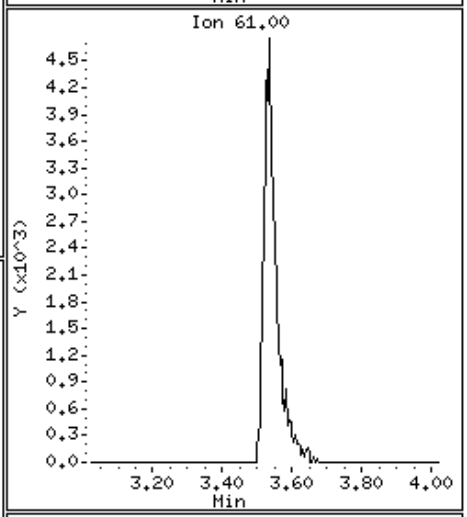


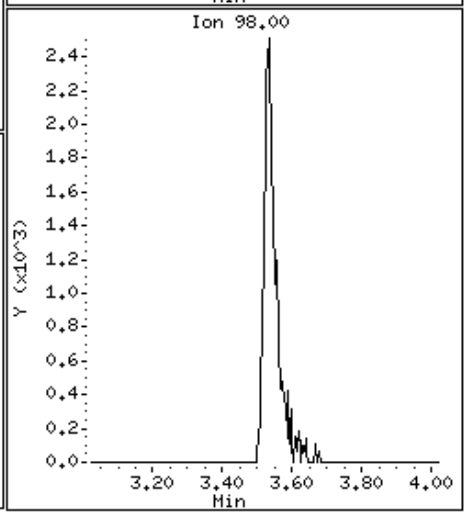












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012728.D Page 3

Date : 27-JAN-2023 17:18

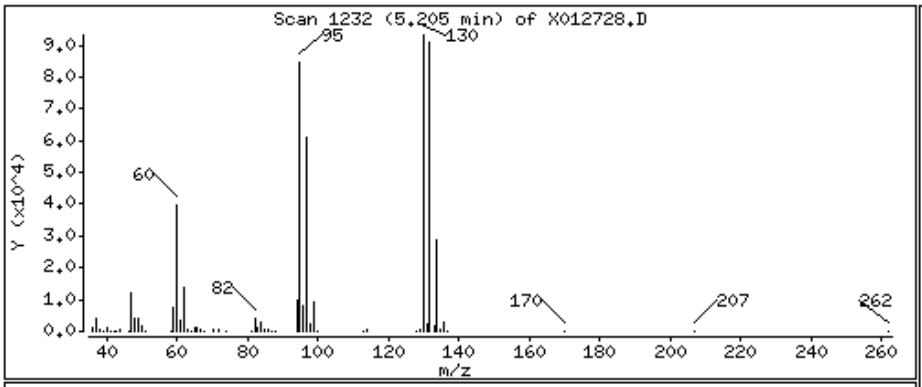
Client ID: HS23011165-09 Instrument: voa6.i

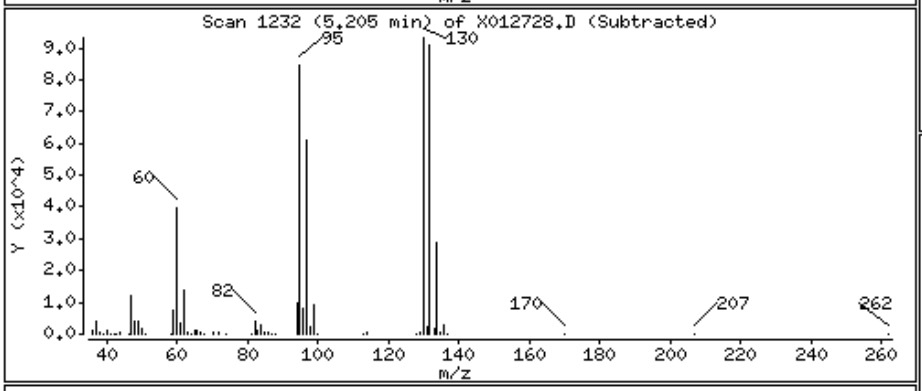
Sample Info: HS23011165-09;HS23011165-09;;;

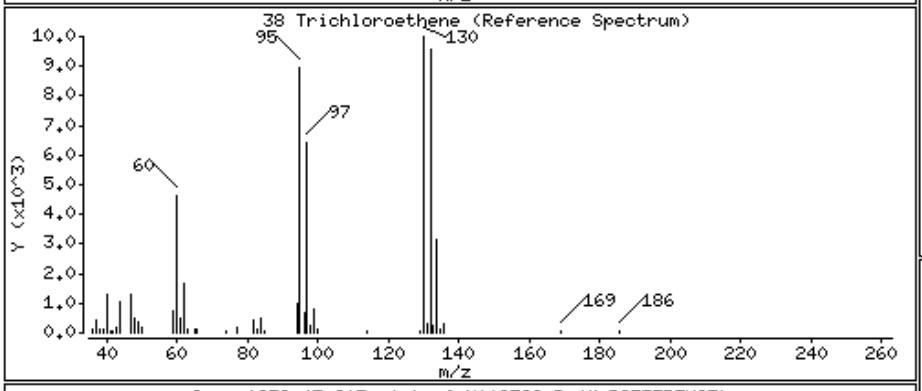
Purge Volume: 5.0 Operator: FT

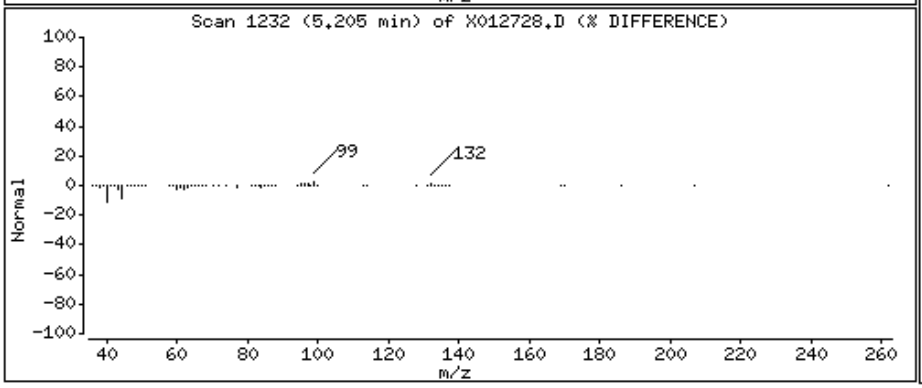
Column phase: DB624 Column diameter: 0.18

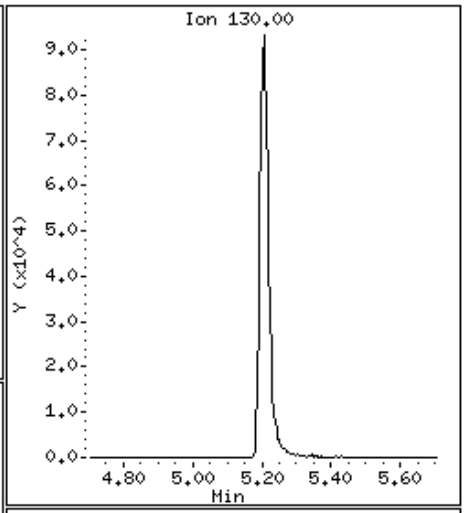
38 Trichloroethene Concentration: 26.91 ug/l

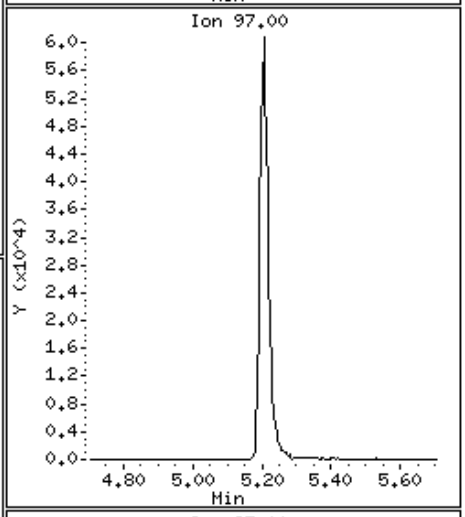


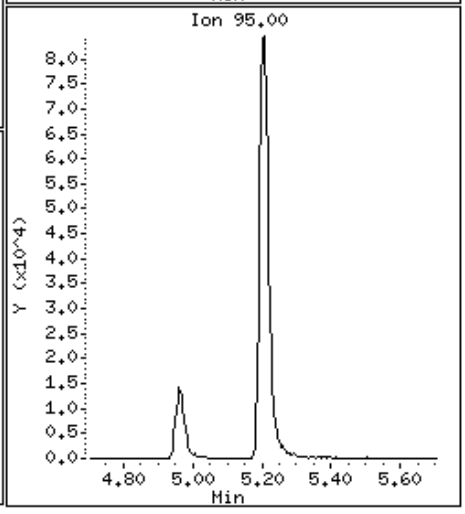












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012728.D
Inj Date : 27-JAN-2023 17:18
InstruID : voa6.i
LabSampID : HS23011165-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012729.D Page 1
Report Date: 13-Feb-2023 13:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012729.D
Lab Smp Id: CCV-END
Inj Date : 27-JAN-2023 17:39
Operator : PC   Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230127.b\8260W.m
Meth Date : 13-Feb-2023 13:50 voa6.i   Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04   Cal File: X121608.D
Als bottle: 28   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	4.177	4.177	(1.000)	517192	50.0000	
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	151352	50.0000	41.90
3 Chloromethane	50	1.074	1.074	(0.257)	228916	50.0000	48.96
4 Propionitrile	54	3.645	3.645	(0.873)	271033	500.000	513.59
5 Vinyl Chloride	62	1.141	1.141	(0.273)	206840	50.0000	45.78
6 Bromomethane	94	1.336	1.336	(0.320)	167275	50.0000	48.98
7 Chloroethane	64	1.400	1.400	(0.335)	138754	50.0000	44.12
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	340044	50.0000	53.78
9 Acrolein	56	1.441	1.441	(0.345)	30795	100.000	87.42
10 Acetone	43	1.966	1.966	(0.471)	115157	100.000	79.34
11 1,1-Dichloroethene	96	1.909	1.909	(0.457)	198955	50.0000	50.68
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	648887	1000.00	1115.44
13 Acetonitrile	39	2.194	2.194	(0.525)	267455	500.000	568.19
14 Allyl Chloride	41	2.194	2.194	(0.525)	474699	50.0000	52.95
15 Iodomethane	142	2.022	2.022	(0.484)	419436	100.000	82.31
16 Acrylonitrile	53	2.528	2.528	(0.605)	144149	100.000	108.27
17 Methylene Chloride	84	2.299	2.299	(0.550)	260253	50.0000	48.33
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	662254	50.0000	51.54
19 Carbon Disulfide	76	2.067	2.067	(0.495)	1093848	100.000	106.51
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	234298	50.0000	53.33

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1168599	100.000	103.61
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	406963	50.0000	52.78

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230127.b\X012729.D Page 2
Report Date: 13-Feb-2023 13:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	83317	50.0000	47.37(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	151679	100.000	98.58
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	184047	50.0000	50.25(a)
	26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	338340	50.0000	51.68
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	274053	50.0000	51.26
	28 Chloroform	83	3.900	3.900	(0.934)	466926	50.0000	54.03
	29 Bromochloromethane	128	3.791	3.791	(0.908)	146417	50.0000	50.01
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	251643	50.0000	50.67
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	402933	50.0000	58.76
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	336863	50.0000	59.09
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	369547	50.0000	56.17
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	341988	50.0000	56.17
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	287861	50.0000	54.89
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	802974	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	988776	50.0000	51.56
	38 Trichloroethene	130	5.205	5.205	(1.049)	302247	50.0000	55.57
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	366725	50.0000	50.96
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	193857	50.0000	54.97
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	197798	100.000	96.61
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	250830	50.0000	49.17
	43 2-Nitropropane	43	5.965	5.965	(1.428)	70730	50.0000	54.15
	44 Dibromomethane	93	5.549	5.549	(1.119)	172203	50.0000	49.67
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	419529	100.000	101.86
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	432240	50.0000	51.14
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	770510	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	916364	50.0000	48.12
	49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	183873	50.0000	48.62
	50 Toluene	91	6.445	6.445	(0.841)	1105873	50.0000	51.92
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	369502	50.0000	52.68
	52 2-Hexanone	43	7.083	7.083	(0.924)	286314	100.000	102.18
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	207385	50.0000	48.53
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	422474	50.0000	50.23
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	310424	50.0000	50.34
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	246999	50.0000	56.05
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	274165	50.0000	51.32
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	233478	50.0000	60.16
	59 Chlorobenzene	112	7.690	7.690	(1.003)	759842	50.0000	50.30
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	292937	50.0000	52.10
	61 Ethylbenzene	106	7.795	7.795	(1.017)	391689	50.0000	55.04
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	989849	100.000	107.90
	63 o-Xylene	106	8.241	8.241	(1.075)	473677	50.0000	52.31
	64 Styrene	104	8.256	8.256	(1.077)	817256	50.0000	53.85
	66 Bromoform	173	8.410	8.410	(1.097)	213609	50.0000	50.00
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1231417	50.0000	59.53
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	324657	50.0000	45.86
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	365300	50.0000	51.32
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	444120	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	268401	50.0000	54.31(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	85534	50.0000	51.42
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1446247	50.0000	58.78
	74 Bromobenzene	156	8.803	8.803	(0.911)	367251	50.0000	50.40
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1055546	50.0000	58.08

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	879877	50.0000	54.50
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1027850	50.0000	55.85

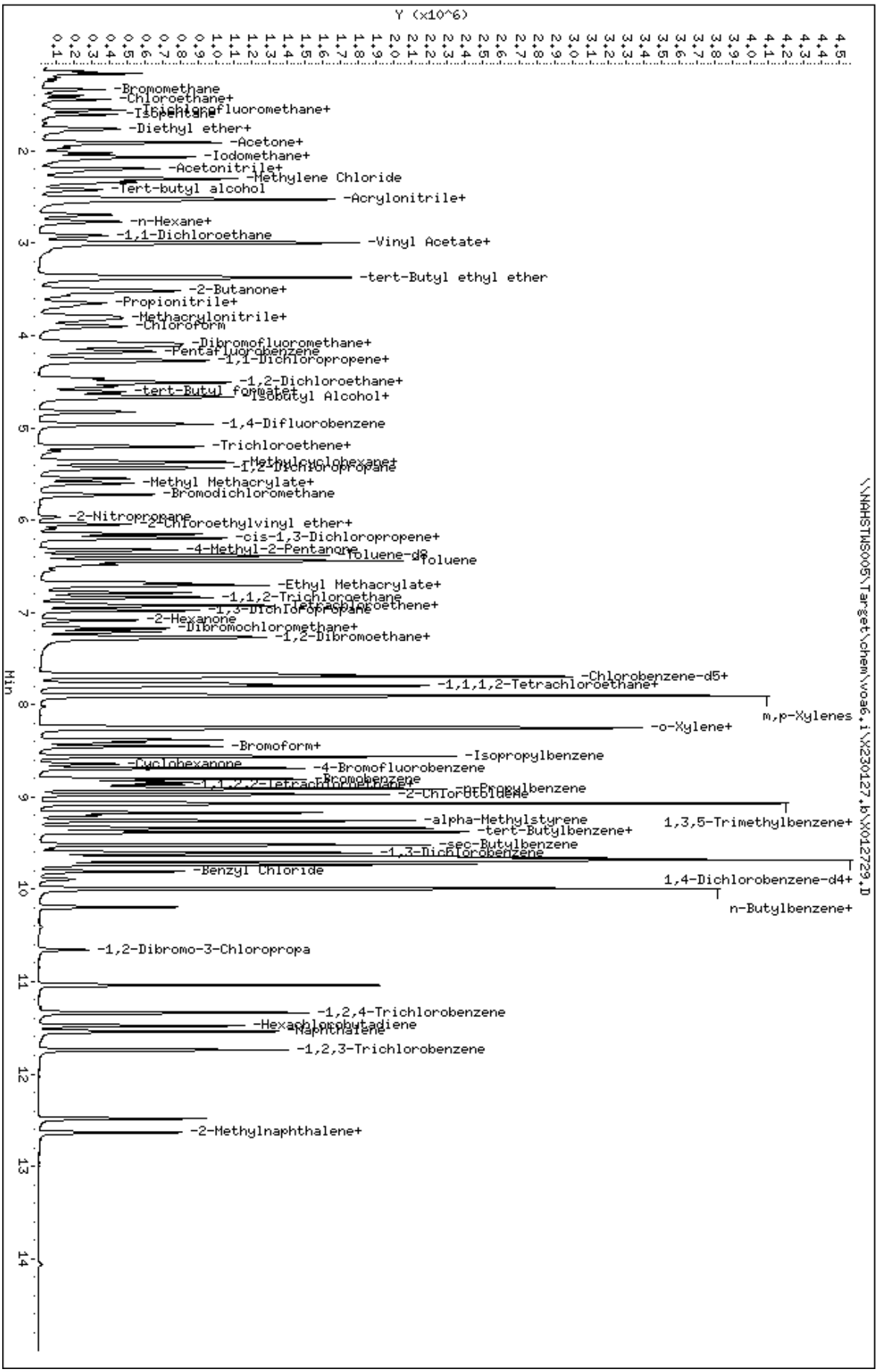
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	893644	50.0000	60.07
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1070362	50.0000	55.97
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1244360	50.0000	62.86
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1102022	50.0000	62.13
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	645175	50.0000	53.34
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	677366	50.0000	51.32
86	Benzyl Chloride	91	9.808	9.808	(1.279)	472324	50.0000	39.75
87	n-Butylbenzene	91	9.992	9.992	(1.034)	953525	50.0000	55.57
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	637972	50.0000	51.22
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	55349	50.0000	48.90
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	434862	50.0000	55.32
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	192807	50.0000	55.28
92	Naphthalene	128	11.540	11.540	(1.194)	901037	50.0000	50.38
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	390700	50.0000	51.89
146	Methyl acetate	43	2.224	2.224	(0.533)	128895	50.0000	55.38
138	Freon TF	101	1.913	1.913	(0.458)	202813	50.0000	53.42
141	Cyclohexane	56	4.117	4.117	(0.986)	325078	50.0000	62.04
142	Tetrahydrofuran	42	3.836	3.836	(0.918)	62653	100.000	97.36
147	Methylcyclohexane	55	5.373	5.373	(1.083)	558070	50.0000	56.77
135	1,4-Dioxane	88	5.598	5.598	(1.340)	50180	1000.00	1061.40
132	n-Butanol	56	5.253	5.253	(1.258)	63569	1000.00	964.45
131	Methyl Acrylate	55	3.683	3.683	(0.882)	204578	50.0000	58.26
133	Ethyl Acrylate	55	5.373	5.373	(1.286)	558070	50.0000	54.88
136	n-Hexane	57	2.768	2.768	(0.663)	222590	50.0000	59.77
139	Diethyl ether	59	1.752	1.752	(0.419)	149958	50.0000	43.39
148	Tert-butyl alcohol	59	2.419	2.419	(0.579)	395304	1000.00	1103.82
149	Isopropyl alcohol	45	2.086	2.086	(0.499)	212868	1000.00	1138.16
156	Diisopropyl ether	45	2.993	2.993	(0.716)	692307	50.0000	51.60
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	338810	50.0000	39.32
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1106964	50.0000	51.75
167	Ethanol	45	1.700	1.700	(0.407)	32718	1000.00	970.99
172	tert-Butyl formate	59	4.612	4.612	(1.104)	296339	100.000	107.98
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	345871	1000.00	948.74
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	745704	50.0000	50.01
175	tert-Butyl ethyl ether	59	3.371	3.371	(0.807)	731347	50.0000	51.30
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	296339	1000.00	1066.85
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.352)	737793	1000.00	970.77
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	338810	50.0000	(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	157232	50.0000	44.29
152	Amyl alcohol	42	6.899	6.899	(0.900)	73181	1000.00	960.46
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	30069	50.0000	44.90
159	Propylene oxide	43	1.752	1.752	(0.419)	29679	100.000	91.25
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	75329	1000.00	988.84
162	Butyl acrylate	55	8.248	8.248	(1.076)	512724	50.0000	50.94
182	Epichlorohydrin	57	6.093	6.093	(1.228)	72227	200.000	200.83
M 94	1,2-Dichloroethylene (total)	96				508351	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	505330	50.0000	51.35
130	Ethyl Acetate	43	3.645	3.645	(0.873)	219670	50.0000	54.43
134	Cyclohexanone	55	8.642	8.642	(0.894)	144975	1000.00	782.54
185	Isoprene	39	1.767	1.767	(0.423)	72681	50.0000	52.75
186	Isopentane	42	1.606	1.606	(0.384)	119187	50.0000	(a)
188	Isopropyl acetate	43	4.672	4.672	(0.942)	649617	50.0000	52.07

187 n-Amyl acetate	43	8.451	8.451 (1.102)	435637	50.0000	48.48
189 n-Butyl acetate	43	7.210	7.210 (0.940)	360399	50.0000	54.45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	222590	1000.00	1170.92
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	470332	50.0000	45.91
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	529933	50.0000	50.81
168 1-Propanol	59	2.997	2.997	(0.717)	83454	1000.00	987.36

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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09-Feb-2023
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Kori
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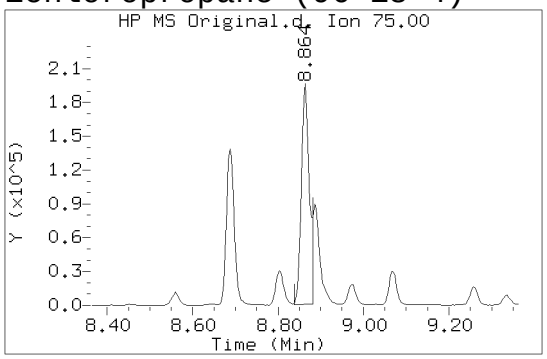

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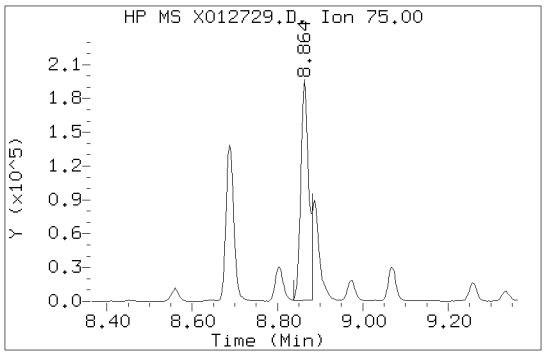

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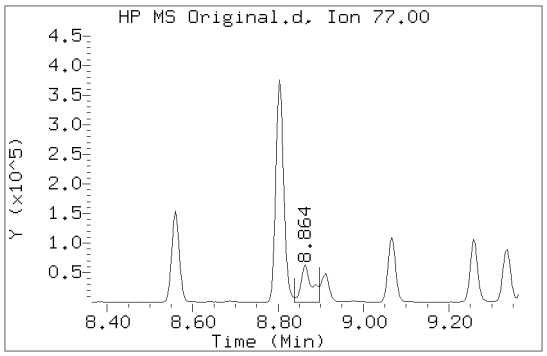

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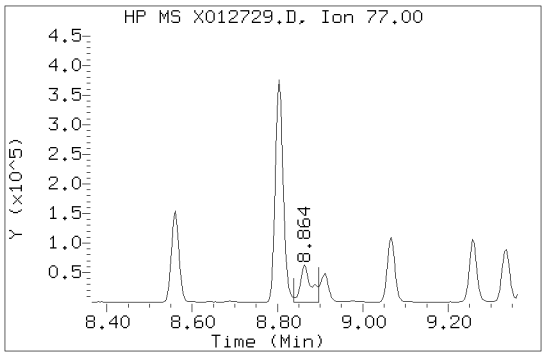

Chloroprene (126-99-8)

Reason Code:

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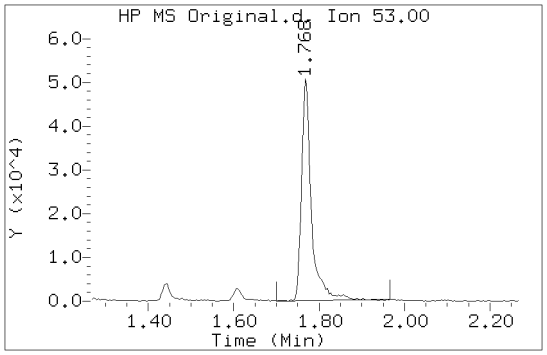

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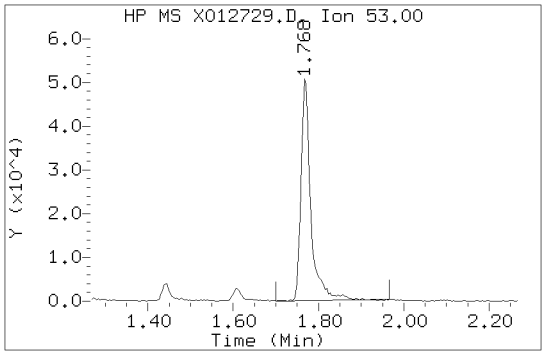

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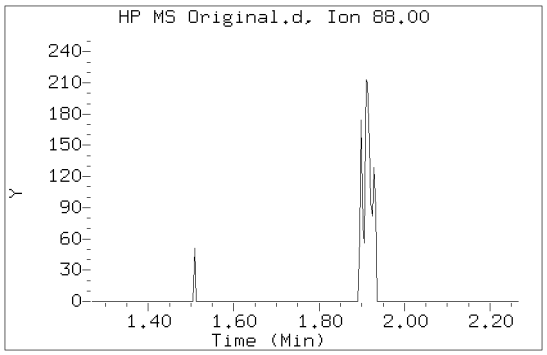

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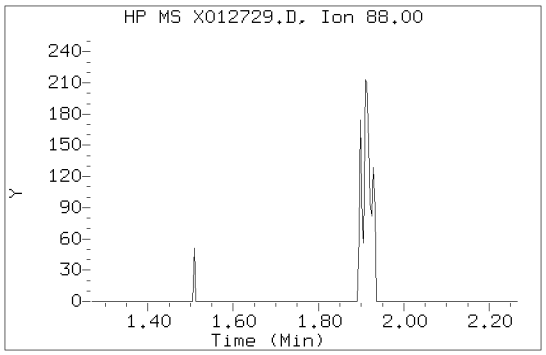

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right partner.

Raw Data VOA6 426883

Volatiles by by EPA 8260

Workorder

HS23011165

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

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Report Date: 30-Jan-2023 20:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013001.D
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Meth Date : 01-Dec-2022 12:59 Linh.Pham 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: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.687	8.889	(0.000)	95	186304			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	34056			15.00- 40.00	18.28
8.687	8.889	(0.000)	75	90040			30.00- 60.00	48.33
8.687	8.889	(0.000)	96	13320			5.00- 9.00	7.15
8.687	8.889	(0.000)	173	975			0.00- 2.00	0.64
8.687	8.889	(0.000)	174	152064			50.00- 0.00	81.62
8.687	8.889	(0.000)	175	12003			5.00- 9.00	7.89
8.687	8.889	(0.000)	176	149312			95.00- 101.00	98.19
8.687	8.889	(0.000)	177	10530			5.00- 9.00	7.05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.28
75	30.00 - 60.00% of mass 95	48.33
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.52 (0.64)
174	Greater than 50.00% of mass 95	81.62
175	5.00 - 9.00% of mass 174	6.44 (7.89)
176	95.00 - 101.00% of mass 174	80.14 (98.19)
177	5.00 - 9.00% of mass 176	5.65 (7.05)

Data File: X013001.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1919	68.00	18936	103.10	166	143.70	67
37.10	8851	69.00	18440	103.90	1112	144.00	64
38.10	7218	70.10	2152	105.00	569	144.70	121
39.10	4263	70.90	316	105.80	868	145.70	318
40.00	1426	71.90	1005	106.80	375	146.70	159
41.10	1757	73.00	8289	108.70	73	147.90	444
42.10	2616	74.00	30528	109.10	119	148.90	135
43.00	1245	75.00	90040	109.90	64	149.80	207
44.00	1978	76.00	7835	110.90	52	150.80	72
45.10	1783	76.90	1473	112.00	198	152.00	125
46.10	99	78.10	669	113.10	106	153.00	99
47.10	1868	78.90	5754	114.90	179	153.90	124
47.80	1175	79.90	1860	115.70	669	154.80	322
49.00	6994	80.90	5089	116.80	1416	156.70	330
50.00	34056	81.80	1085	117.80	569	158.90	331
51.00	10778	83.00	382	118.90	852	160.70	131
52.10	556	83.80	99	120.00	91	170.10	73
52.80	442	85.10	235	123.20	74	170.80	63
54.10	366	85.80	216	123.90	176	171.30	66
55.00	4223	86.90	6949	125.80	59	171.80	118
56.00	3337	87.90	7327	126.80	189	172.80	975
57.00	5435	89.60	62	127.80	870	173.90	152064
58.00	497	91.00	1063	129.00	245	174.90	12003
60.00	1517	92.00	4716	129.90	674	175.90	149312
61.00	8183	93.00	7380	130.80	335	176.90	10530
62.10	8359	94.00	20648	134.80	318	178.00	241
63.00	6164	95.00	186304	136.90	226	185.90	140
64.00	856	96.00	13320	138.90	82		
64.80	230	97.00	324	140.90	1498		
66.10	66	98.00	1629	141.80	310		
66.80	417	98.90	110	143.00	1538		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013001.D

Date : 30-JAN-2023 13:07

Client ID: BFB

Instrument: voa6.i

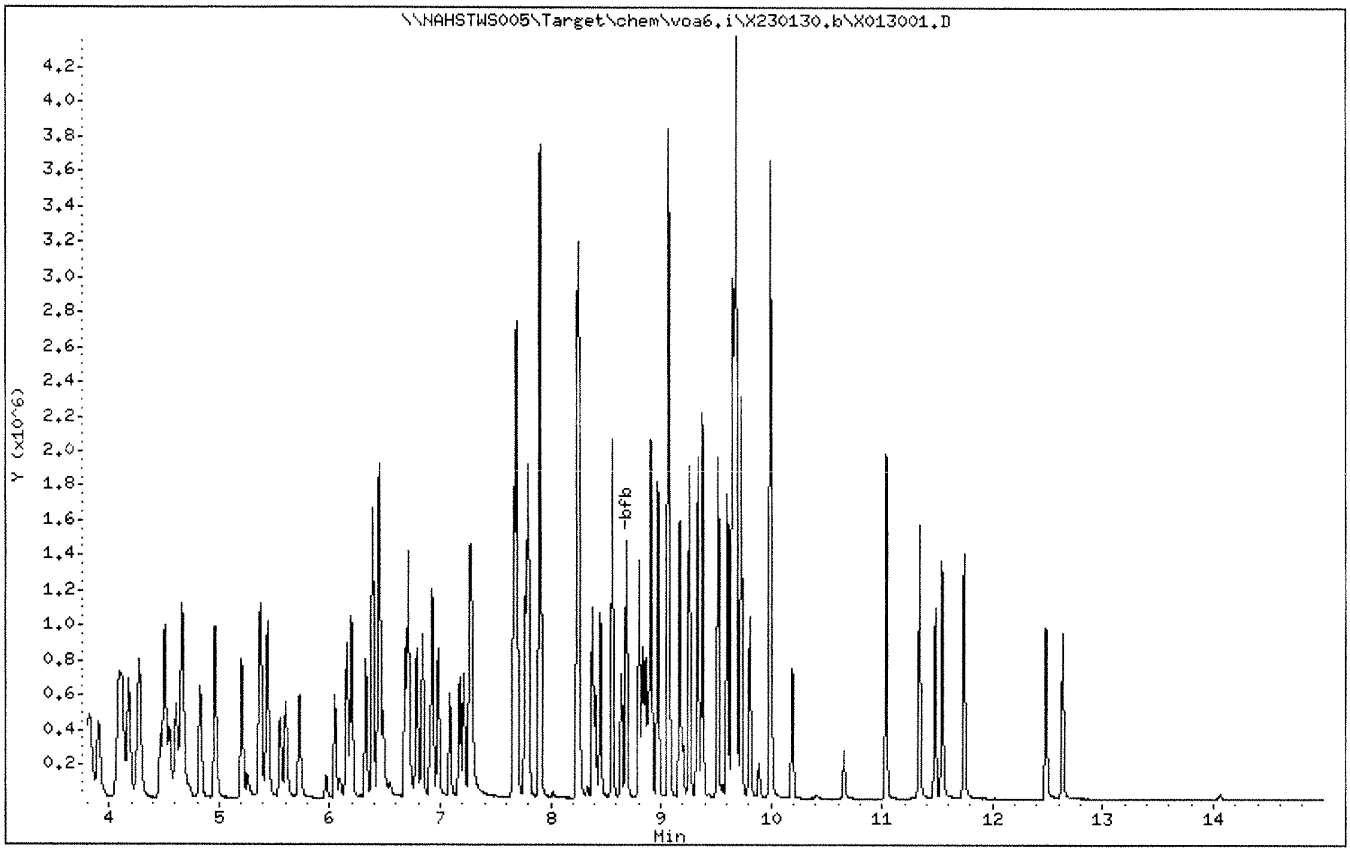
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013001.D

Date : 30-JAN-2023 13:07

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

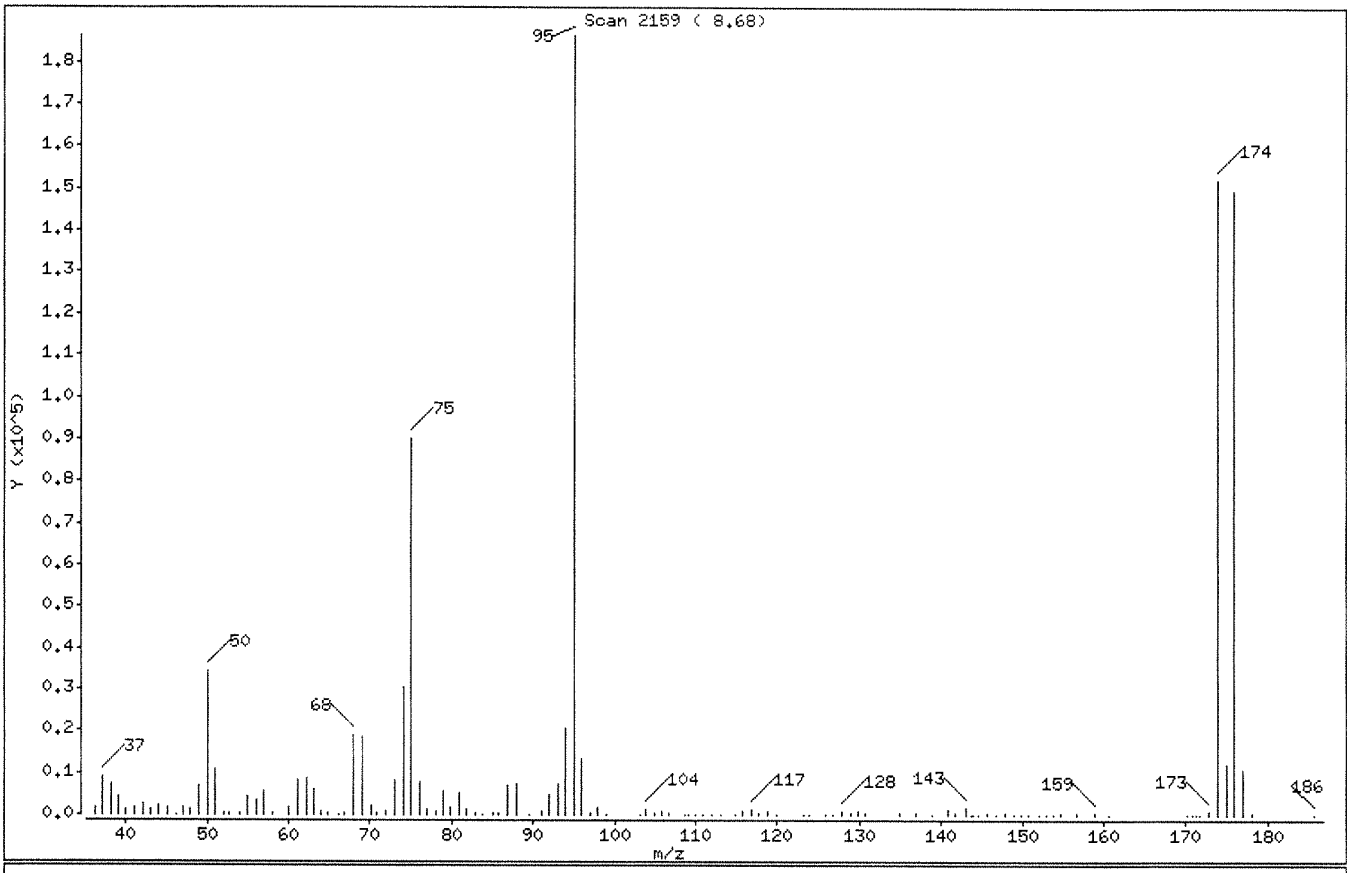
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.28
75	30.00 - 60.00% of mass 95	48.33
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.52 (0.64)
174	Greater than 50.00% of mass 95	81.62
175	5.00 - 9.00% of mass 174	6.44 (7.89)
176	95.00 - 101.00% of mass 174	80.14 (98.19)
177	5.00 - 9.00% of mass 176	5.65 (7.05)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013001.D

Date : 30-JAN-2023 13:07

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: X013001.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1919	68.00	18936	103.10	166	143.70	67
37.10	8851	69.00	18440	103.90	1112	144.00	64
38.10	7218	70.10	2152	105.00	569	144.70	121
39.10	4263	70.90	316	105.80	868	145.70	318
40.00	1426	71.90	1005	106.80	375	146.70	159
41.10	1757	73.00	8289	108.70	73	147.90	444
42.10	2616	74.00	30528	109.10	119	148.90	135
43.00	1245	75.00	90040	109.90	64	149.80	207
44.00	1978	76.00	7835	110.90	52	150.80	72
45.10	1783	76.90	1473	112.00	198	152.00	125
46.10	99	78.10	669	113.10	106	153.00	99
47.10	1868	78.90	5754	114.90	179	153.90	124
47.80	1175	79.90	1860	115.70	669	154.80	322
49.00	6994	80.90	5089	116.80	1416	156.70	330
50.00	34056	81.80	1085	117.80	569	158.90	331
51.00	10778	83.00	382	118.90	852	160.70	131
52.10	556	83.80	99	120.00	91	170.10	73
52.80	442	85.10	235	123.20	74	170.80	63
54.10	366	85.80	216	123.90	176	171.30	66
55.00	4223	86.90	6949	125.80	59	171.80	118
56.00	3337	87.90	7327	126.80	189	172.80	975
57.00	5435	89.60	62	127.80	870	173.90	152064
58.00	497	91.00	1063	129.00	245	174.90	12003
60.00	1517	92.00	4716	129.90	674	175.90	149312
61.00	8183	93.00	7380	130.80	335	176.90	10530
62.10	8359	94.00	20648	134.80	318	178.00	241
63.00	6164	95.00	186304	136.90	226	185.90	140
64.00	856	96.00	13320	138.90	82		
64.80	230	97.00	324	140.90	1498		
66.10	66	98.00	1629	141.80	310		
66.80	417	98.90	110	143.00	1538		

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013001.D
Inj Date : 30-JAN-2023 13:07
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013003.D Page 1
Report Date: 14-Feb-2023 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013003.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 30-JAN-2023 13:49
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 14-Feb-2023 12:14 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.178	(1.000)	559994	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	65714	1000.00	1283.74
140 1,3-Butadiene	54	1.160	1.160	(0.278)	151486	50.0000	39.41
25 Methacrylonitrile	41	3.818	3.818	(0.914)	217499	50.0000	54.85
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	739542	1000.00	1174.11
13 Acetonitrile	39	2.195	2.195	(0.525)	275799	500.000	541.13
14 Allyl Chloride	41	2.195	2.195	(0.525)	521847	50.0000	53.76
4 Propionitrile	54	3.645	3.645	(0.873)	310115	500.000	542.73
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	102584	50.0000	60.26
23 Chloroprene	53	1.767	1.767	(0.423)	76435	50.0000	40.14(M)
130 Ethyl Acetate	43	3.649	3.649	(0.873)	252042	50.0000	57.67
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	223632	50.0000	58.56
49 Ethyl Methacrylate	69	6.389	6.389	(1.288)	2614	50.0000	0.66(a)
139 Diethyl ether	59	1.752	1.752	(0.420)	160463	50.0000	42.88
142 Tetrahydrofuran	42	3.836	3.836	(0.918)	76878	100.000	110.76
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	501108	50.0000	50.85
156 Diisopropyl ether	45	2.997	2.997	(0.717)	772647	50.0000	53.18
182 Epichlorohydrin	57	6.093	6.093	(1.228)	88758	200.000	236.82
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1075436	50.0000	50.22
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	191009	50.0000	48.77

3 Chloromethane	50	1.074	1.074 (0.257)	251679	50.0000	49.68
5 Vinyl Chloride	62	1.141	1.141 (0.273)	205427	50.0000	41.99

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013003.D Page 2
Report Date: 14-Feb-2023 12:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.336	1.336	(0.320)	154655	50.0000	42.08
	7 Chloroethane	64	1.400	1.400	(0.335)	136667	50.0000	40.13
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	297376	50.0000	43.44
	9 Acrolein	56	1.441	1.441	(0.345)	36078	100.000	94.36
	10 Acetone	43	1.970	1.970	(0.472)	160570	100.000	102.19
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	176882	50.0000	41.61
	15 Iodomethane	142	2.026	2.026	(0.485)	562989	100.000	100.46
	16 Acrylonitrile	53	2.528	2.528	(0.605)	160222	100.000	111.15
	17 Methylene Chloride	84	2.300	2.300	(0.550)	267864	50.0000	45.94
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	748512	50.0000	53.80
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1021116	100.000	91.82
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	223724	50.0000	47.03
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	1409639	100.000	115.43
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	396467	50.0000	47.49
	24 2-Butanone	43	3.570	3.570	(0.855)	193993	100.000	115.89
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	370298	50.0000	52.24
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	268598	50.0000	46.39
	28 Chloroform	83	3.900	3.900	(0.934)	452845	50.0000	48.39
	29 Bromochloromethane	128	3.788	3.788	(0.907)	143530	50.0000	45.28
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	249917	50.0000	46.46
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	376451	50.0000	50.71
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	318189	50.0000	53.66
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	378829	50.0000	55.35
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	305064	50.0000	48.17
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	289566	50.0000	51.01
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	835212	50.0000	
	37 Benzene	78	4.508	4.508	(0.909)	1002182	50.0000	50.24
	38 Trichloroethene	130	5.205	5.205	(1.049)	287044	50.0000	50.74
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	377661	50.0000	50.45
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	277406	100.000	130.26
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	269144	50.0000	50.73
	44 Dibromomethane	93	5.550	5.550	(1.119)	178784	50.0000	49.57
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	504729	100.000	119.74
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	479023	50.0000	54.49
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	788566	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	960905	50.0000	49.31
	50 Toluene	91	6.446	6.446	(0.841)	1099536	50.0000	50.44
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	421246	50.0000	57.74
	52 2-Hexanone	43	7.083	7.083	(0.924)	360825	100.000	125.82
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	223435	50.0000	51.09
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	455300	50.0000	52.89
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	330969	50.0000	52.44
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	229909	50.0000	50.98
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	301180	50.0000	55.08
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	212414	50.0000	52.62
	59 Chlorobenzene	112	7.690	7.690	(1.003)	779597	50.0000	50.42
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	303162	50.0000	52.69
	61 Ethylbenzene	106	7.799	7.799	(1.017)	380676	50.0000	52.27
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	959030	100.000	102.15
	63 o-Xylene	106	8.241	8.241	(1.075)	474989	50.0000	51.26
	64 Styrene	104	8.256	8.256	(1.077)	845512	50.0000	54.44
	66 Bromoform	173	8.410	8.410	(1.097)	238926	50.0000	54.64

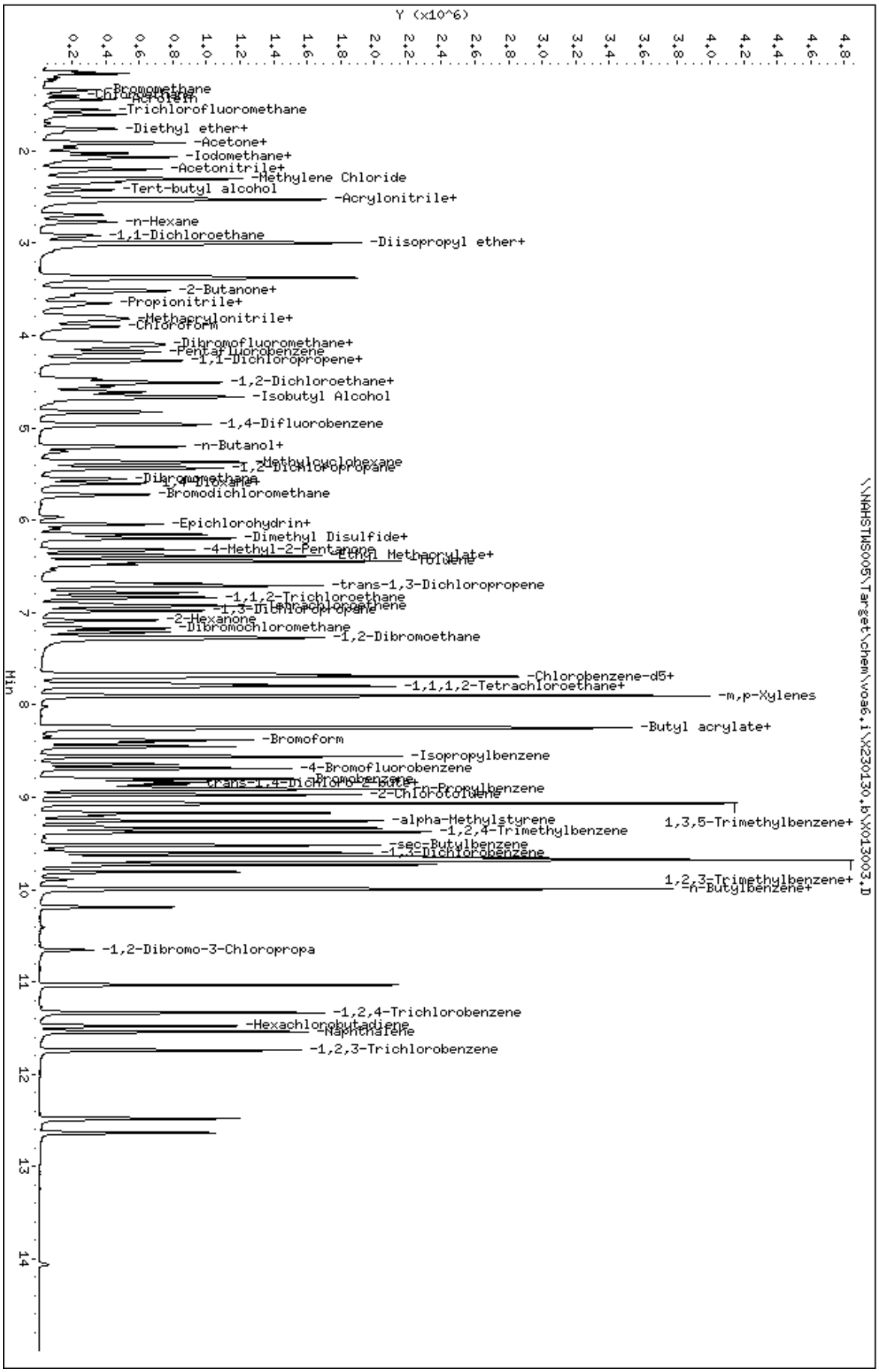
67 Isopropylbenzene	105	8.560	8.560 (1.116)	1141738	50.0000	53.93
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	377766	50.0000	53.30

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013003.D Page 3
Report Date: 14-Feb-2023 12:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	379401	50.0000	52.08	
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	444670	50.0000		
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	272826	50.0000	55.13	
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1364803	50.0000	55.41	
	74 Bromobenzene	156	8.803	8.803	(0.911)	377768	50.0000	51.78	
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1016341	50.0000	55.85	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	871638	50.0000	53.92	
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1031001	50.0000	55.95	
	78 tert-Butylbenzene	119	9.647	9.647	(0.998)	1031376	50.0000	69.24	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1048557	50.0000	54.76	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1131319	50.0000	57.08	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	1031376	50.0000	58.07	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	653796	50.0000	53.99	
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	696333	50.0000	52.69	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	908104	50.0000	52.95	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	657940	50.0000	52.75	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	65519	50.0000	57.80	
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	475618	50.0000	60.43	
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	197368	50.0000	56.50	
	92 Naphthalene	128	11.540	11.540	(1.194)	1069838	50.0000	59.74	
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	429784	50.0000	57.01	
M	94 1,2-Dichloroethylene (total)	96				492322	100.000		(a)
	141 Cyclohexane	56	4.118	4.118	(0.986)	277389	50.0000	49.16	
	138 Freon TF	101	1.913	1.913	(0.458)	175653	50.0000	42.73	
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	642708	50.0000	62.86	
	146 Methyl Acetate	43	2.228	2.228	(0.533)	140440	50.0000	55.73	
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	508419	1000.00	1311.17	
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	273120	1000.00	1348.70	

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\voa6.i\X230130.b\X013003.D
Date : 30-JAN-2023 13:49
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

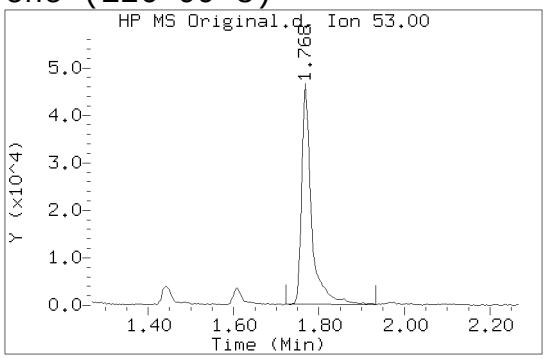
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013003.D
Inj Date : 30-JAN-2023 13:49
InstruID : voa6.i
LabSampID : CCV

Chloroprene (126-99-8)

Reason Code:

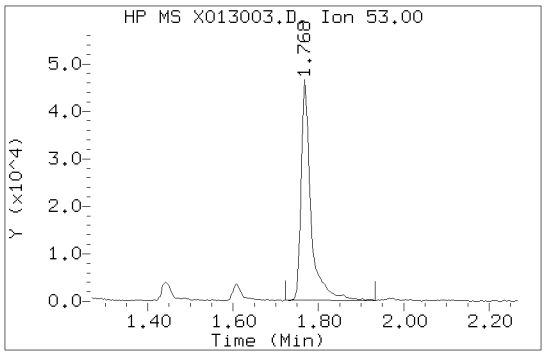
BEFORE

MASS
53
AREA
76435
HEIGHT
46452
13-Feb-2023
13:50
linh
pham



AFTER

MASS
53
AREA
76435
HEIGHT
46452
14-Feb-2023
12:14
linh
pham



BEFORE

MASS
88
AREA
0
HEIGHT
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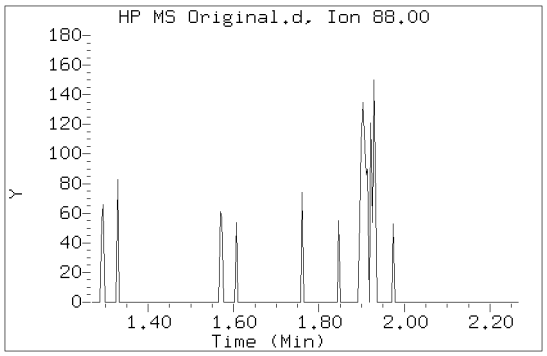

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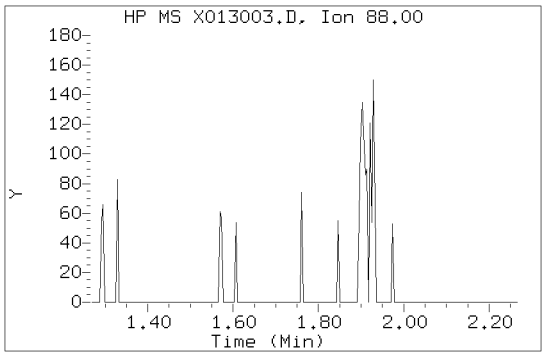


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013004.D Page 1
Report Date: 09-Feb-2023 15:25

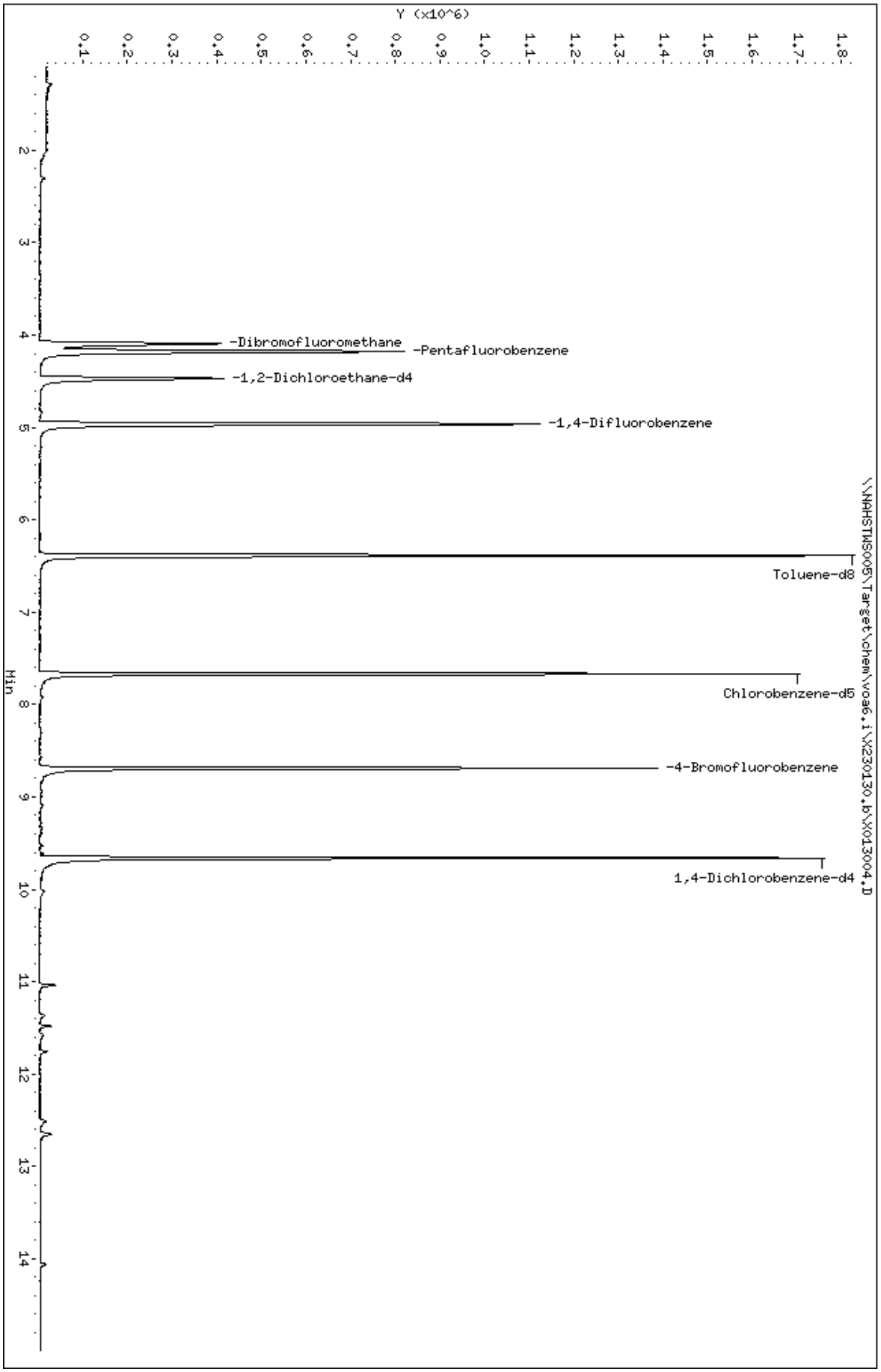
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013004.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 30-JAN-2023 14:10
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 09-Feb-2023 15:25 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

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	4.178	4.178	(1.000)	670829	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	294129	45.6487	45.64
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	334106	49.1475	49.14
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	944739	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	824928	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1080330	52.9975	52.99
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	399167	52.3848	52.38
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	426533	50.0000	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Client ID: CCB
Sample Info: CCB;CCB;;;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6.i
Operator: PC
Column diameter: 0.18
Page 1
Y (x10^6)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
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Data File : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013004.D
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LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013005.D Page 1
Report Date: 13-Feb-2023 13:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013005.D
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Meth Date : 13-Feb-2023 13:51 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.178	(1.000)	590816	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	25502	472.200	472.20(a)
140 1,3-Butadiene	54	1.164	1.160	(0.279)	75945	18.7293	18.72
25 Methacrylonitrile	41	3.818	3.818	(0.914)	80595	19.2651	19.26
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	283460	426.552	426.55
13 Acetonitrile	39	2.195	2.195	(0.525)	114823	213.538	213.53
14 Allyl Chloride	41	2.195	2.195	(0.525)	209882	20.4939	20.49
4 Propionitrile	54	3.649	3.645	(0.873)	111802	185.457	185.45(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	37506	20.8733	20.87
23 Chloroprene	53	1.767	1.767	(0.423)	39820	19.8223	19.82(M)
130 Ethyl Acetate	43	3.649	3.649	(0.873)	99584	21.6006	21.60
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	84387	20.9475	20.94
49 Ethyl Methacrylate	69	6.389	6.389	(1.288)	2490	0.59551	0.59(a)
139 Diethyl ether	59	1.752	1.752	(0.420)	67095	16.9959	16.99
142 Tetrahydrofuran	42	3.840	3.836	(0.919)	27923	36.0544	36.05
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	208042	20.3375	20.33
156 Diisopropyl ether	45	2.997	2.997	(0.717)	308210	20.1099	20.10
182 Epichlorohydrin	57	6.097	6.093	(1.229)	31401	80.4786	80.47
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	429693	19.3277	19.32
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	95846	23.4054	23.40

3 Chloromethane	50	1.074	1.074 (0.257)	110573	21.9820	21.98
5 Vinyl Chloride	62	1.141	1.141 (0.273)	99729	19.3232	19.32

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013005.D Page 2
Report Date: 13-Feb-2023 13:51

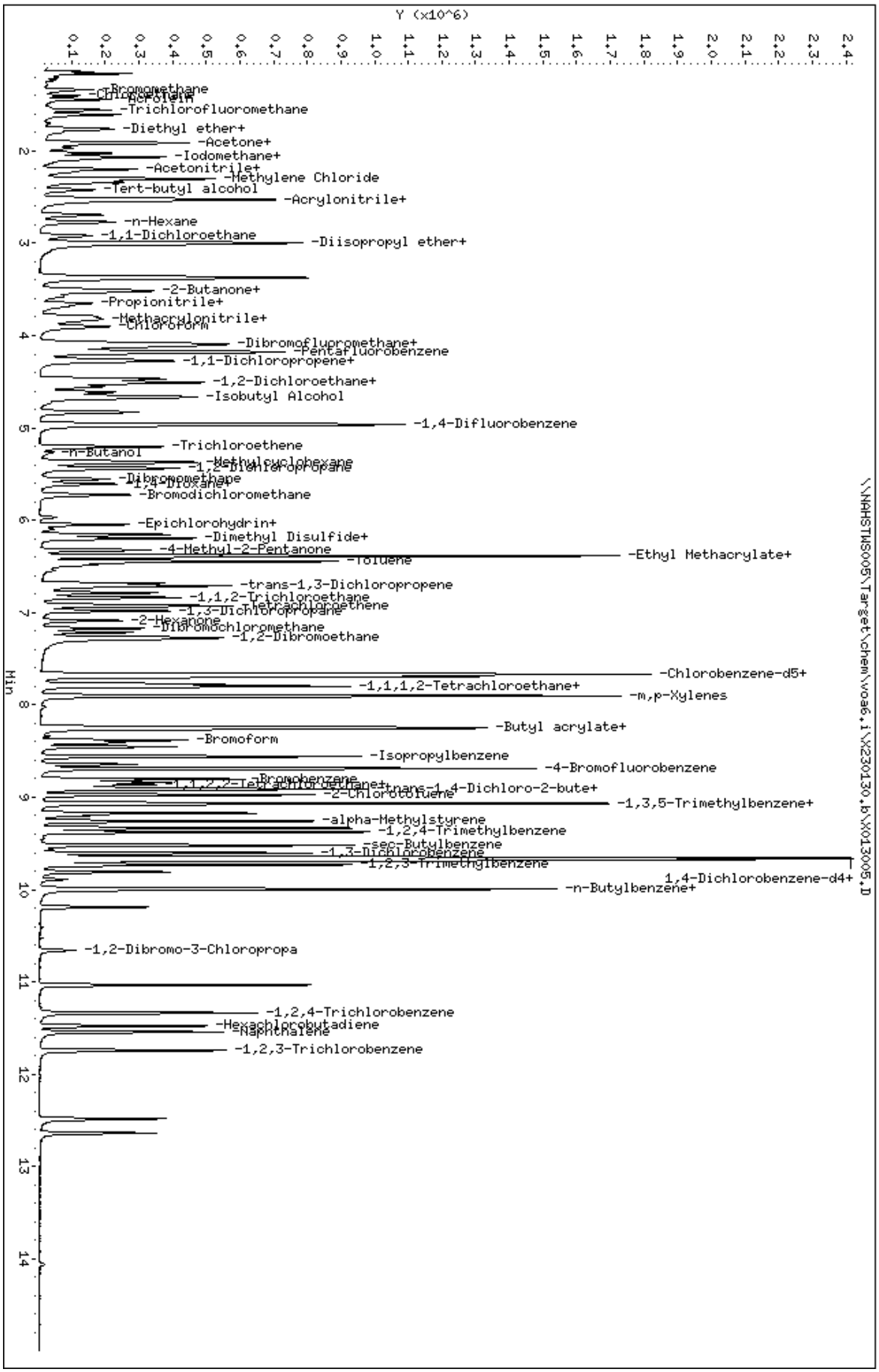
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
6	Bromomethane	94	1.336	1.336	(0.320)	67913	18.5477	18.54
7	Chloroethane	64	1.400	1.400	(0.335)	63230	17.6016	17.60
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	145880	20.1982	20.19
9	Acrolein	56	1.441	1.441	(0.345)	15973	41.2376	41.23
10	Acetone	43	1.970	1.970	(0.472)	64760	39.0435	39.04
11	1,1-Dichloroethene	96	1.910	1.913	(0.457)	85157	18.9912	18.99
15	Iodomethane	142	2.026	2.026	(0.485)	216916	39.7385	39.73
16	Acrylonitrile	53	2.536	2.528	(0.607)	61238	40.2668	40.26
17	Methylene Chloride	84	2.300	2.300	(0.550)	118401	19.2502	19.25
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	296829	20.2239	20.22
19	Carbon Disulfide	76	2.067	2.067	(0.495)	471027	40.1494	40.14
20	trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	102244	20.3737	20.37
21	Vinyl Acetate	43	2.997	2.993	(0.717)	554458	43.0342	43.03
22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	172771	19.6165	19.61
24	2-Butanone	43	3.578	3.570	(0.856)	67224	40.0984	40.09
26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	169036	22.6044	22.60
27	cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	116397	19.0585	19.05
28	Chloroform	83	3.900	3.900	(0.934)	194032	19.6558	19.65
29	Bromochloromethane	128	3.788	3.788	(0.907)	60615	18.1269	18.12
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.980)	262742	46.3022	46.30
31	1,1,1-Trichloroethane	97	4.080	4.076	(0.977)	174710	22.3068	22.30
32	1,1-Dichloropropene	75	4.279	4.275	(0.862)	144403	22.9072	22.90
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	153379	21.0828	21.08
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	149278	22.1757	22.17
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	304615	50.8682	50.86
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	887927	50.0000	
37	Benzene	78	4.507	4.508	(0.909)	427010	20.1387	20.13
38	Trichloroethene	130	5.205	5.205	(1.049)	123657	20.5616	20.56
39	Bromodichloromethane	83	5.726	5.722	(1.154)	157828	19.8338	19.83
41	2-Chloroethylvinyl ether	63	6.048	6.044	(1.219)	105365	46.5419	46.54
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	109328	19.3835	19.38
44	Dibromomethane	93	5.550	5.550	(1.119)	71705	18.7040	18.70
45	4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	190721	42.8690	42.86
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	190121	20.3437	20.34
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	832352	50.0000	
$ 48	Toluene-d8	98	6.386	6.386	(0.833)	985447	47.9116	47.91
50	Toluene	91	6.446	6.446	(0.841)	476430	20.7085	20.70
51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	164193	21.1708	21.17
52	2-Hexanone	43	7.087	7.083	(0.924)	132132	43.6526	43.65
53	1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	88957	19.2736	19.27
54	1,3-Dichloropropane	76	6.982	6.978	(0.911)	183728	20.2237	20.22
55	Dibromochloromethane	129	7.173	7.173	(0.935)	133342	20.0169	20.01
56	Tetrachloroethene	164	6.925	6.925	(0.903)	105821	22.2307	22.23
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	116712	20.2248	20.22
58	1-Chlorohexane	55	7.698	7.694	(1.552)	103974	24.2304	24.23
59	Chlorobenzene	112	7.694	7.690	(1.003)	327140	20.0474	20.04
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	121814	20.0588	20.05
61	Ethylbenzene	106	7.799	7.799	(1.017)	164938	21.4573	21.45
62	m,p-Xylenes	106	7.904	7.904	(1.031)	419797	42.3645	42.36
63	o-Xylene	106	8.241	8.241	(1.075)	203684	20.8260	20.82
64	Styrene	104	8.260	8.256	(1.077)	348304	21.2472	21.24
66	Bromoform	173	8.410	8.410	(1.097)	90117	19.5272	19.52

67	Isopropylbenzene	105	8.560	8.560 (1.116)	516218	23.1029	23.10
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	143252	19.4678	19.46

							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	383295	49.8563	49.85
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	461674	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	114664	22.3208	22.32(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	605494	23.6774	23.67
	74 Bromobenzene	156	8.807	8.803	(0.912)	155772	20.5654	20.56
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	441637	23.3778	23.37
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	377012	22.4665	22.46
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	437652	22.8776	22.87
	78 tert-Butylbenzene	119	9.647	9.647	(0.998)	456804	29.5402	29.54
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	446201	22.4475	22.44
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	514561	25.0089	25.00
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	456804	24.7761	24.77
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	268768	21.3785	21.37
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	290867	21.2021	21.20
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	394759	23.2029	23.20
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	271000	20.9304	20.93
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	23865	20.3407	20.34
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	186689	22.8474	22.84
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	85730	23.7950	23.79
	92 Naphthalene	128	11.544	11.540	(1.195)	387156	20.8246	20.82
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	164567	21.0287	21.02
M	94 1,2-Dichloroethylene (total)	96				218641	39.4321	39.43
M	95 Xylenes (total)	106				623481	63.1905	63.19
	141 Cyclohexane	56	4.118	4.118	(0.986)	149533	25.7369	25.73
	138 Freon TF	101	1.910	1.913	(0.457)	89853	20.7180	20.71
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	256456	23.5953	23.59
	146 Methyl Acetate	43	2.232	2.228	(0.534)	53146	19.9907	19.99
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	187764	458.968	458.96
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	101225	473.785	473.78

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Page 1

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Inj Date : 30-JAN-2023 14:31
InstruID : voa6.i
LabSampID : VLCSW-230130

1,2,3-Trichloropropane (96-18-4)

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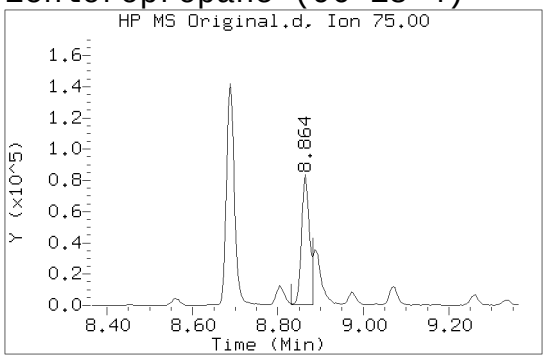

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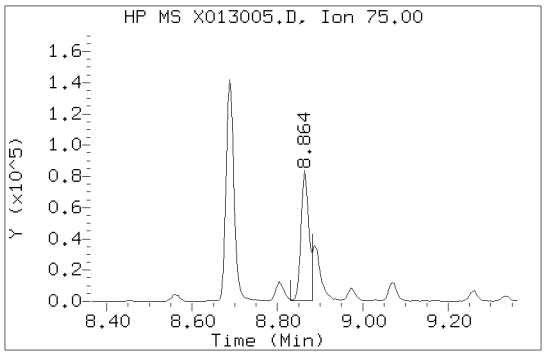

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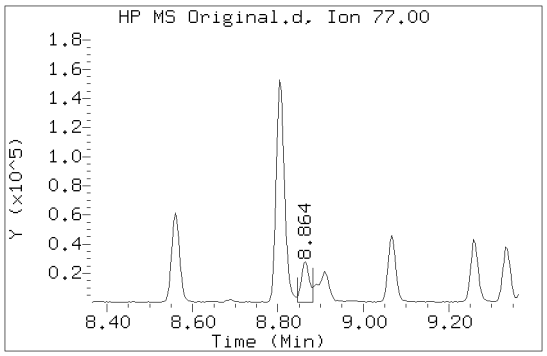

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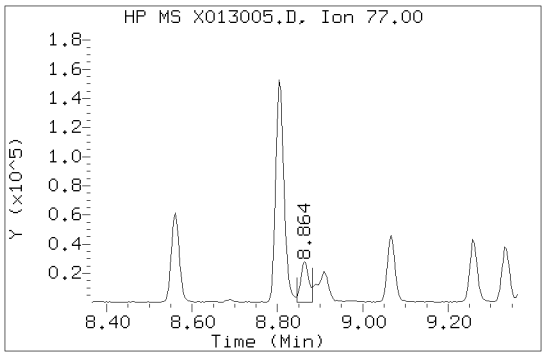

Chloroprene (126-99-8)

Reason Code:

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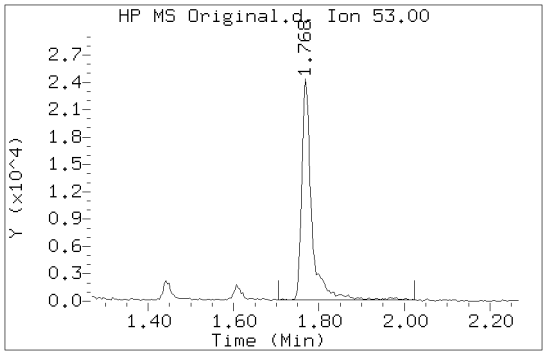

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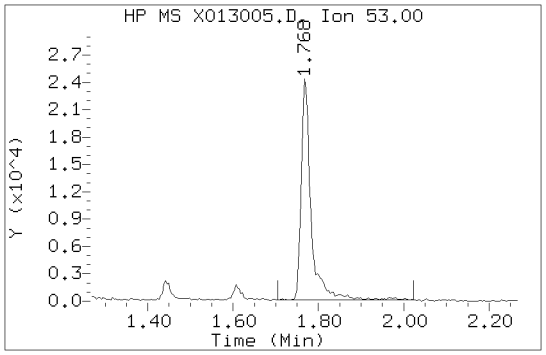

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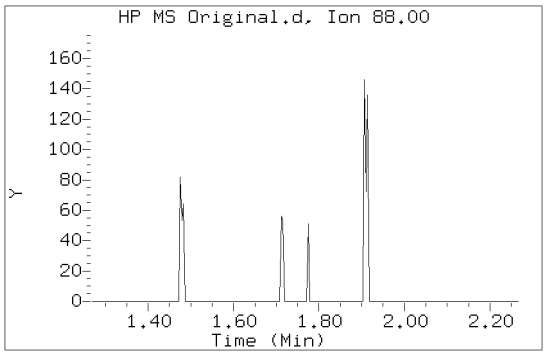

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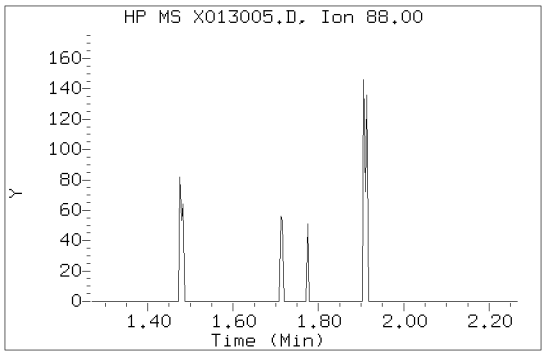


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013007.D Page 1
Report Date: 13-Feb-2023 13:51

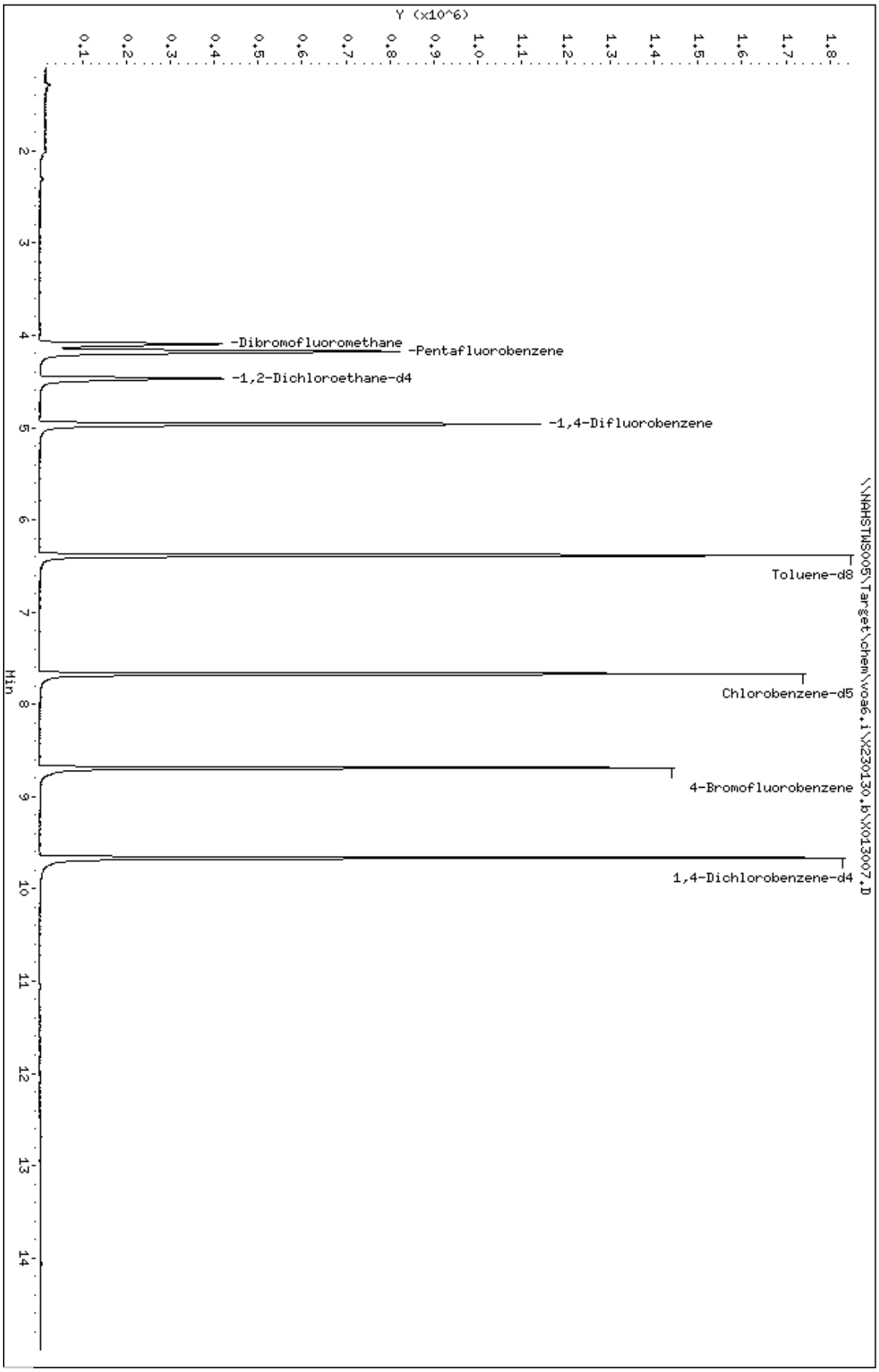
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013007.D
Lab Smp Id: VBLKW-230130 Client Smp ID: VBLKW-230130
Inj Date : 30-JAN-2023 15:13
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230130;VBLKW-230130;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 13-Feb-2023 13:51 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.178	(1.000)	678175	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	298474	45.8219	45.82
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	337653	49.1313	49.13
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	957817	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	862531	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1092901	51.2768	51.27
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	414284	51.9989	51.99
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	457972	50.0000	



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013007.D
Inj Date : 30-JAN-2023 15:13
InstruID : voa6.i
LabSampID : VBLKW-230130

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013009.D Page 1
Report Date: 13-Feb-2023 13:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013009.D
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Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 13-Feb-2023 13:51 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.174	4.178	(1.000)	686453	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.341)	22879	364.612	364.61(a)
140 1,3-Butadiene	54	1.164	1.160	(0.279)	68780	14.5991	14.59
25 Methacrylonitrile	41	3.821	3.818	(0.916)	70858	14.5778	14.57
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	196814	254.905	254.90
13 Acetonitrile	39	2.194	2.195	(0.526)	85237	136.432	136.43
14 Allyl Chloride	41	2.198	2.195	(0.527)	167708	14.0944	14.09
4 Propionitrile	54	3.653	3.645	(0.875)	100907	144.065	144.06(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	21634	11.4850	11.48
23 Chloroprene	53	1.767	1.767	(0.423)	29855	12.7912	12.79(M)
130 Ethyl Acetate	43	3.653	3.649	(0.875)	47396	8.84829	8.84
40 Methyl Methacrylate	41	5.606	5.602	(1.343)	72606	15.5121	15.51
49 Ethyl Methacrylate	69	6.389	6.389	(1.287)	3476	0.75911	0.75(a)
139 Diethyl ether	59	1.752	1.752	(0.420)	54416	11.8637	11.86
142 Tetrahydrofuran	42	3.840	3.836	(0.920)	24155	26.0349	26.03
145 alpha-Methylstyrene	118	9.261	9.257	(0.958)	93692	8.93279	8.93
156 Diisopropyl ether	45	2.997	2.997	(0.718)	260069	14.6047	14.60
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	356650	15.6459	15.64
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	86455	18.2586	18.25
3 Chloromethane	50	1.074	1.074	(0.257)	110923	19.2815	19.28

5 Vinyl Chloride	62	1.141	1.141 (0.273)	95820	15.9792	15.97
6 Bromomethane	94	1.336	1.336 (0.320)	66607	15.9317	15.93

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	7 Chloroethane	64	1.400	1.400	(0.335)	62075	14.8726	14.87
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	151437	18.0464	18.04
	9 Acrolein	56	1.445	1.441	(0.346)	12613	28.9304	28.93
	10 Acetone	43	1.970	1.970	(0.472)	53107	27.5471	27.54
	11 1,1-Dichloroethene	96	1.910	1.913	(0.458)	83906	16.1052	16.10
	15 Iodomethane	142	2.026	2.026	(0.485)	190714	30.9782	30.97
	16 Acrylonitrile	53	2.532	2.528	(0.607)	44130	24.9748	24.97
	17 Methylene Chloride	84	2.299	2.300	(0.551)	105223	14.7242	14.72
	18 Methyl tert-butyl ether	73	2.528	2.532	(0.606)	253081	14.8409	14.84
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	412893	30.2909	30.29
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.606)	91821	15.7476	15.74
	21 Vinyl Acetate	43	2.997	2.993	(0.718)	267183	17.8482	17.84
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	171459	16.7553	16.75
	24 2-Butanone	43	3.574	3.570	(0.856)	61047	32.0014	32.00
	26 2,2-Dichloropropane	77	3.507	3.507	(0.840)	44221	5.08960	5.08
	27 cis-1,2-Dichloroethene	96	3.521	3.522	(0.844)	119347	16.8190	16.81
	28 Chloroform	83	3.900	3.900	(0.934)	189265	16.5017	16.50
	29 Bromochloromethane	128	3.795	3.788	(0.909)	57787	14.8736	14.87
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	292129	44.3015	44.30
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.978)	177387	19.4931	19.49
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	135810	19.6726	19.67
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	155475	19.5145	19.51
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	156705	21.2569	21.25
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.071)	338691	48.6905	48.69
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	972394	50.0000	
	37 Benzene	78	4.511	4.508	(0.909)	420436	18.1062	18.10
	38 Trichloroethene	130	5.205	5.205	(1.048)	167240	25.3929	25.39
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	148200	17.0061	17.00
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	105171	17.0268	17.02
	44 Dibromomethane	93	5.550	5.550	(1.118)	69112	16.4616	16.46
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	171709	36.8164	36.81
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	140988	13.7758	13.77
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	872577	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1121529	52.0142	52.01
	50 Toluene	91	6.445	6.446	(0.841)	457815	18.9821	18.98
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	121317	14.2837	14.28
	52 2-Hexanone	43	7.086	7.083	(0.924)	116587	36.7414	36.74
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	85045	17.5766	17.57
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	172564	18.1192	18.11
	55 Dibromochloromethane	129	7.176	7.173	(0.936)	124759	17.8651	17.86
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	99171	19.8733	19.87
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	110343	18.2397	18.23
	58 1-Chlorohexane	55	7.697	7.694	(1.550)	91440	19.4584	19.45
	59 Chlorobenzene	112	7.694	7.690	(1.003)	308768	18.0492	18.04
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	115749	18.1815	18.18
	61 Ethylbenzene	106	7.799	7.799	(1.017)	160521	19.9200	19.92
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	395930	38.1140	38.11
	63 o-Xylene	106	8.241	8.241	(1.075)	193526	18.8752	18.87
	64 Styrene	104	8.260	8.256	(1.077)	316970	18.4444	18.44
	66 Bromoform	173	8.410	8.410	(1.097)	83612	17.2825	17.28
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	498872	21.2974	21.29
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	137018	18.1606	18.16

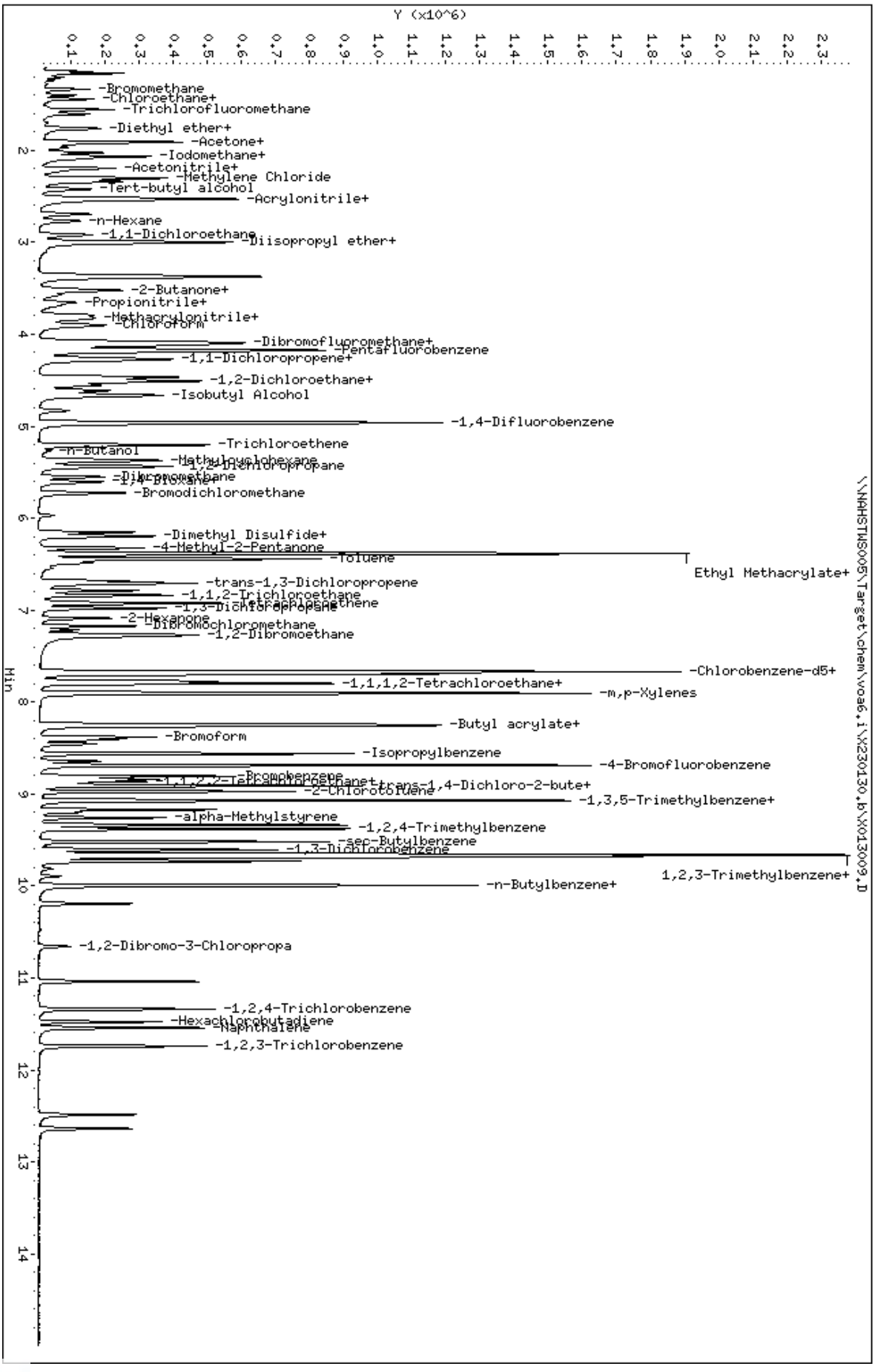
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	427795	53.0752	53.07
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	473367	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013009.D Page 3
Report Date: 13-Feb-2023 13:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	101407	19.2525	19.25(M)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	555739	21.1949	21.19
74	Bromobenzene	156	8.803	8.803	(0.911)	144786	18.6429	18.64
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	410189	21.1767	21.17
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	349264	20.2989	20.29
77	4-Chlorotoluene	91	9.069	9.070	(0.939)	392927	20.0323	20.03
78	tert-Butylbenzene	119	9.651	9.647	(0.999)	403550	25.4518	25.45
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	406709	19.9553	19.95
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	479282	22.7188	22.71
82	p-Isopropyltoluene	119	9.651	9.647	(0.999)	403550	21.3471	21.34
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	240389	18.6488	18.64
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	251176	17.8567	17.85
87	n-Butylbenzene	91	9.995	9.992	(1.035)	321014	18.7697	18.76
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	249584	18.8002	18.80
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	21886	18.2029	18.20
90	1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	152764	18.2338	18.23
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	57657	15.6199	15.61
92	Naphthalene	128	11.544	11.540	(1.195)	349578	18.3388	18.33
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	146434	18.2495	18.24
M 94	1,2-Dichloroethylene (total)	96				211168	32.5666	32.56
M 95	Xylenes (total)	106				589456	56.9892	56.98
141	Cyclohexane	56	4.118	4.118	(0.987)	157079	23.3899	23.38
138	Freon TF	101	1.913	1.913	(0.458)	85312	16.9304	16.93
147	Methylcyclohexane	55	5.381	5.377	(1.084)	201786	16.9527	16.95
146	Methyl Acetate	43	2.232	2.228	(0.535)	24912	8.06505	8.06
148	Tert-Butyl alcohol	59	2.423	2.423	(0.581)	173670	365.373	365.37
149	Isopropyl Alcohol	45	2.090	2.090	(0.501)	93345	376.033	376.03

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 30-JAN-2023 15:56
Client ID: HS23011273-02MS
Sample Info: HS23011273-02MS;HS23011273-02MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013009.D
Inj Date : 30-JAN-2023 15:56
InstruID : voa6.i
LabSampID : HS23011273-02MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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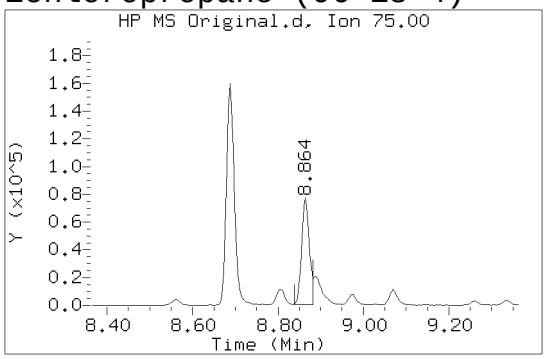
HEIGHT
77056
09-Feb-2023
15:24
Kori
Bagsby



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13-Feb-2023
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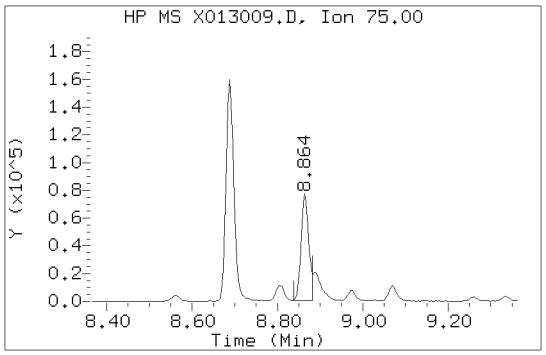

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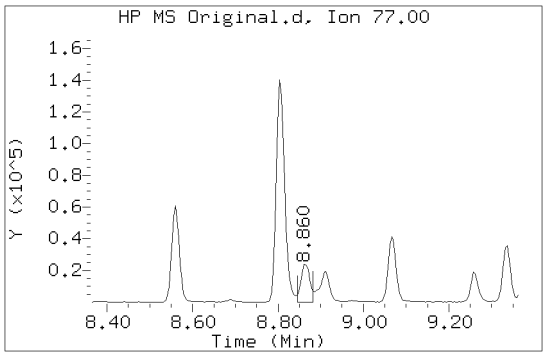
Bagsby



AFTER

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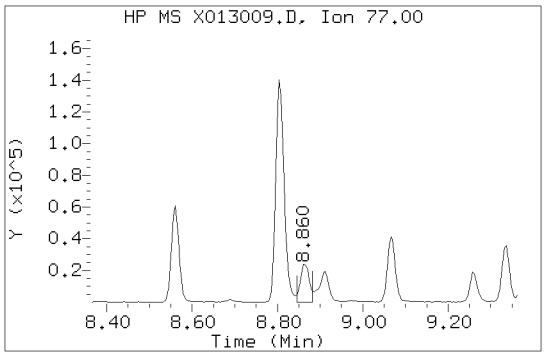

Chloroprene (126-99-8)

Reason Code:

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HEIGHT
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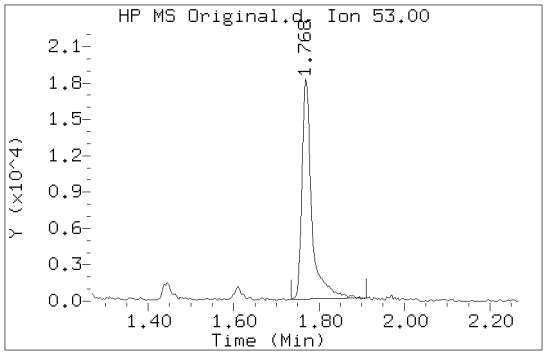
09-Feb-2023
15:24
Kori
Bagsby



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13-Feb-2023
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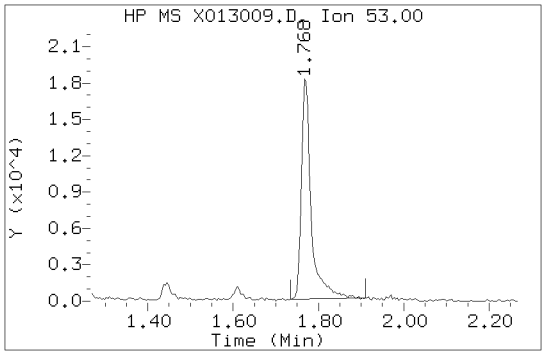

BEFORE

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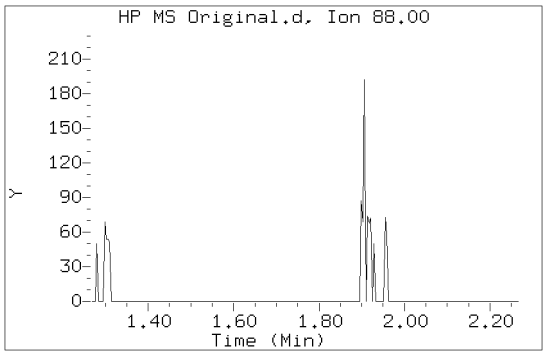
09-Feb-2023
15:24
Kori
Bagsby



AFTER

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13-Feb-2023
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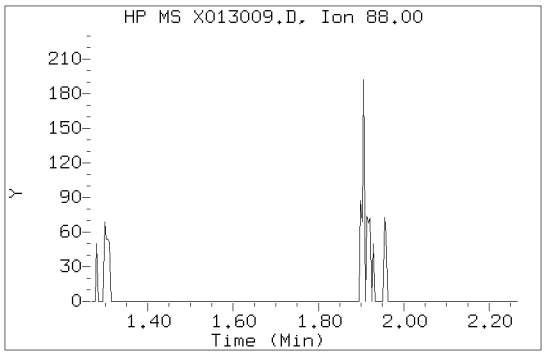
Kori
Bags



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Report Date: 13-Feb-2023 13:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013010.D
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Inj Date : 30-JAN-2023 16:17
Operator : PC Inst ID: voa6.i
Smp Info : HS23011273-02MSD;HS23011273-02MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 13-Feb-2023 13:51 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.178	(1.000)	677980	50.0000	
135 1,4-Dioxane	88	5.602	5.598	(1.341)	21750	350.951	350.95(a)
140 1,3-Butadiene	54	1.164	1.160	(0.279)	62975	13.5340	13.53
25 Methacrylonitrile	41	3.821	3.818	(0.915)	68907	14.3536	14.35
12 Isobutyl Alcohol	43	4.668	4.672	(1.118)	199747	261.936	261.93
13 Acetonitrile	39	2.198	2.195	(0.526)	84481	136.912	136.91
14 Allyl Chloride	41	2.198	2.195	(0.526)	162784	13.8515	13.85
4 Propionitrile	54	3.649	3.645	(0.873)	101548	146.792	146.79(a)
72 trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	21776	11.6408	11.64
23 Chloroprene	53	1.771	1.767	(0.424)	30474	13.2196	13.21(M)
130 Ethyl Acetate	43	3.649	3.649	(0.873)	48379	9.14468	9.14
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	69879	15.1160	15.11
49 Ethyl Methacrylate	69	6.389	6.389	(1.288)	3258	0.71980	0.71(a)
139 Diethyl ether	59	1.756	1.752	(0.420)	53590	11.8297	11.82
142 Tetrahydrofuran	42	3.840	3.836	(0.919)	23957	26.1575	26.15
145 alpha-Methylstyrene	118	9.261	9.257	(0.958)	91228	8.55741	8.55
156 Diisopropyl ether	45	2.997	2.997	(0.717)	253424	14.4094	14.40
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	346065	14.9364	14.93
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	82886	17.7352	17.73
3 Chloromethane	50	1.077	1.074	(0.258)	105723	18.6846	18.68

5 Vinyl Chloride	62	1.141	1.141 (0.273)	90246	15.2377	15.23
6 Bromomethane	94	1.336	1.336 (0.320)	61913	15.0978	15.09

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013010.D Page 2
Report Date: 13-Feb-2023 13:51

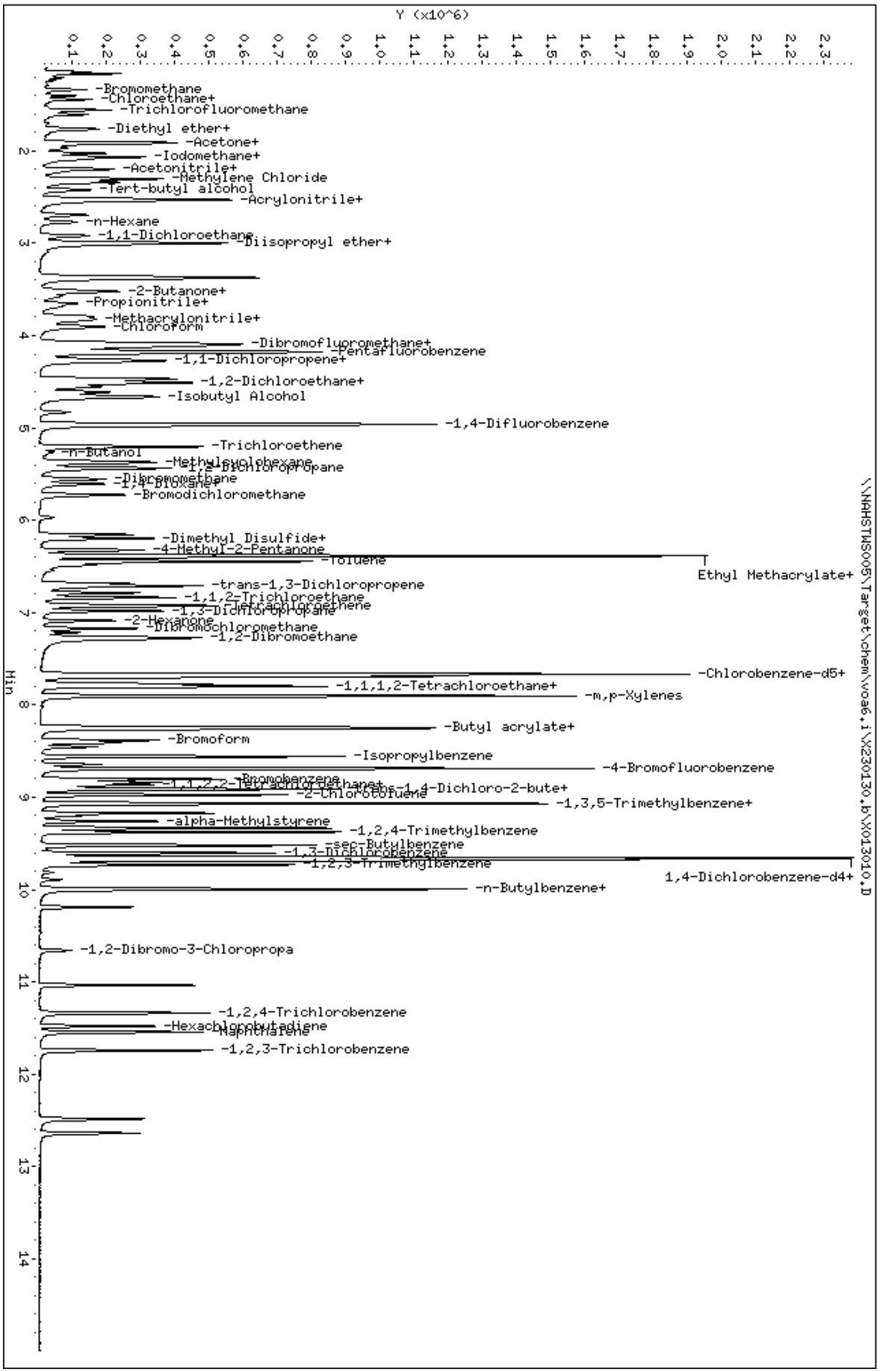
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	7 Chloroethane	64	1.400	1.400	(0.335)	59120	14.3416	14.34
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	142237	17.1619	17.16
	9 Acrolein	56	1.445	1.441	(0.346)	10594	25.0252	25.02
	10 Acetone	43	1.969	1.970	(0.472)	53737	28.2231	28.22
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	79103	15.3730	15.37
	15 Iodomethane	142	2.026	2.026	(0.485)	192982	31.6491	31.64
	16 Acrylonitrile	53	2.532	2.528	(0.606)	52690	30.1919	30.19
	17 Methylene Chloride	84	2.299	2.300	(0.550)	101750	14.4162	14.41
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	248418	14.7495	14.74
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	386349	28.6978	28.69
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	87482	15.1910	15.19
	21 Vinyl Acetate	43	2.997	2.993	(0.717)	261579	17.6923	17.69
	22 1,1-Dichloroethane	63	2.922	2.918	(0.699)	164936	16.3193	16.31
	24 2-Butanone	43	3.578	3.570	(0.856)	66110	34.7967	34.79
	26 2,2-Dichloropropane	77	3.506	3.507	(0.839)	43497	5.06883	5.06
	27 cis-1,2-Dichloroethene	96	3.521	3.522	(0.843)	115172	16.4334	16.43
	28 Chloroform	83	3.904	3.900	(0.935)	181721	16.0419	16.04
	29 Bromochloromethane	128	3.791	3.788	(0.908)	54823	14.2871	14.28
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	287038	44.0726	44.07
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.977)	168986	18.8020	18.80
	32 1,1-Dichloropropene	75	4.282	4.275	(0.863)	131842	19.3208	19.32
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	147465	18.7252	18.72
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	146470	20.1005	20.10
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	331599	48.2691	48.26
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	961174	50.0000	
	37 Benzene	78	4.511	4.508	(0.909)	404127	17.6070	17.60
	38 Trichloroethene	130	5.205	5.205	(1.049)	161153	24.7543	24.75
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	143704	16.6827	16.68
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	101678	16.6534	16.65
	44 Dibromomethane	93	5.553	5.550	(1.119)	68287	16.4550	16.45
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	175681	37.9301	37.93
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.241)	138279	13.6688	13.66
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	866548	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1116506	52.1415	52.14
	50 Toluene	91	6.445	6.446	(0.841)	441602	18.4372	18.43
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	117823	14.0342	14.03
	52 2-Hexanone	43	7.086	7.083	(0.924)	116146	36.8570	36.85
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	83216	17.3182	17.31
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	168992	17.8676	17.86
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	122105	17.6067	17.60
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	92893	18.7447	18.74
	57 1,2-Dibromoethane	107	7.263	7.259	(0.947)	109351	18.2015	18.20
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	85986	18.5113	18.51
	59 Chlorobenzene	112	7.694	7.690	(1.003)	296041	17.4257	17.42
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	114649	18.1340	18.13
	61 Ethylbenzene	106	7.799	7.799	(1.017)	155496	19.4307	19.43
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	381807	37.0102	37.01
	63 o-Xylene	106	8.241	8.241	(1.075)	187382	18.4031	18.40
	64 Styrene	104	8.260	8.256	(1.077)	306541	17.9617	17.96
	66 Bromoform	173	8.410	8.410	(1.097)	83199	17.3167	17.31
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	479493	20.6125	20.61
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	134646	17.5580	17.55

$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	423230	52.8744	52.87
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	481137	50.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	100332	18.7408	18.74(M)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	533406	20.0147	20.01
74	Bromobenzene	156	8.803	8.803	(0.911)	139324	17.6499	17.64
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	397444	20.1874	20.18
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	339559	19.4161	19.41
77	4-Chlorotoluene	91	9.069	9.070	(0.939)	380629	19.0919	19.09
78	tert-Butylbenzene	119	9.647	9.647	(0.998)	390696	24.2432	24.24
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	396507	19.1406	19.14
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	466729	21.7665	21.76
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	390696	20.3333	20.33
83	1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	235186	17.9506	17.95
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	250016	17.4872	17.48
87	n-Butylbenzene	91	9.995	9.992	(1.035)	308251	17.8305	17.83
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	240276	17.8068	17.80
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	22076	18.0651	18.06
90	1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	149729	17.5829	17.58
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	58019	15.4641	15.46
92	Naphthalene	128	11.543	11.540	(1.195)	353582	18.2493	18.24
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	147376	18.0702	18.07
M 94	1,2-Dichloroethylene (total)	96				202654	31.6244	31.62
M 95	Xylenes (total)	106				569189	55.4133	55.41
141	Cyclohexane	56	4.121	4.118	(0.987)	151015	22.8015	22.80
138	Freon TF	101	1.913	1.913	(0.458)	80587	16.1925	16.19
147	Methylcyclohexane	55	5.381	5.377	(1.085)	198415	16.8640	16.86
146	Methyl Acetate	43	2.232	2.228	(0.534)	24880	8.15536	8.15
148	Tert-Butyl alcohol	59	2.423	2.423	(0.580)	176483	375.931	375.93
149	Isopropyl Alcohol	45	2.089	2.090	(0.500)	98367	401.216	401.21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230111273-02HSD;HS230111273-02HSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013010.D
Inj Date : 30-JAN-2023 16:17
InstruID : voa6.i
LabSampID : HS23011273-02MSD

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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HEIGHT
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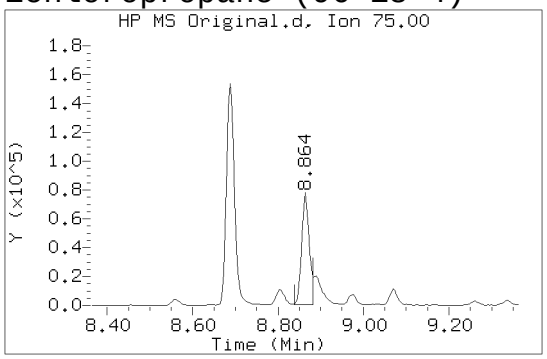
09-Feb-2023
15:27
Kori
Bagsby



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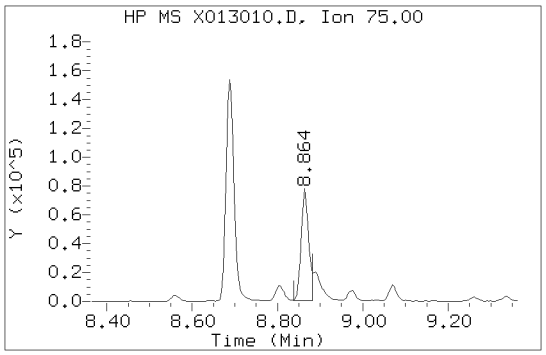

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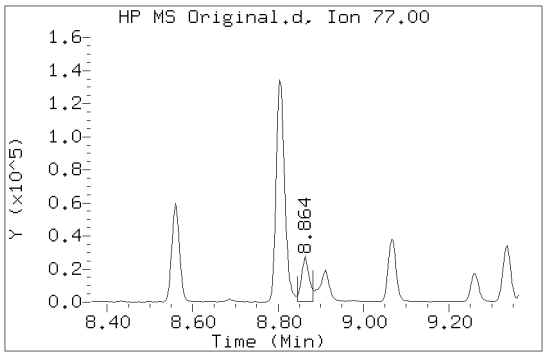

AFTER

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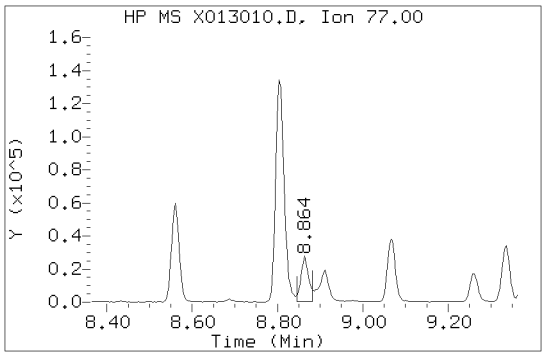

Chloroprene (126-99-8)

Reason Code:

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09-Feb-2023
15:27
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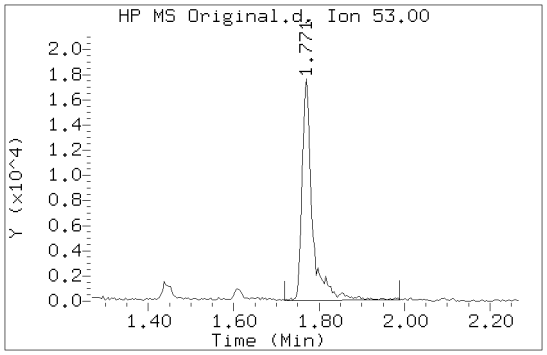

AFTER

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13-Feb-2023
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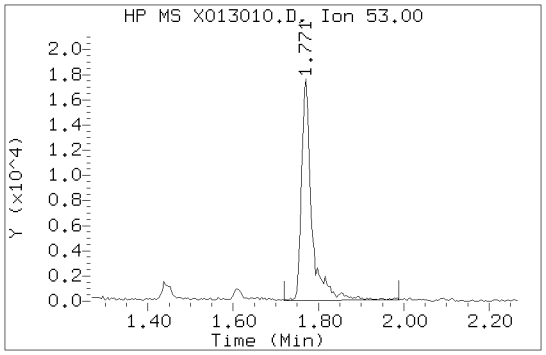
Bags



BEFORE

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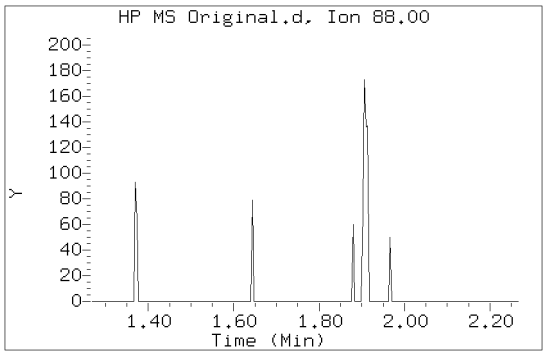
09-Feb-2023
15:27
Kori
Bagsby



AFTER

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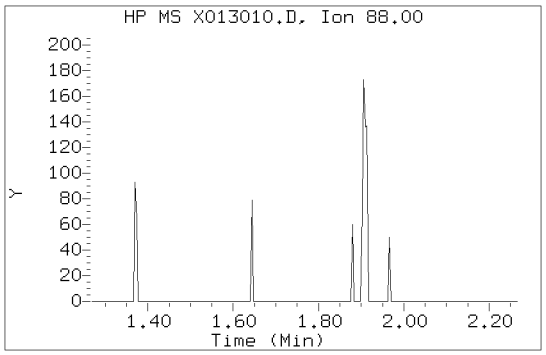
Bags



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Report Date: 13-Feb-2023 13:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013012.D
Lab Smp Id: HS23011165-04 Client Smp ID: HS23011165-04
Inj Date : 30-JAN-2023 16:59
Operator : PC Inst ID: voa6.i
Smp Info : HS23011165-04;HS23011165-04;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 13-Feb-2023 13:51 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 10
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

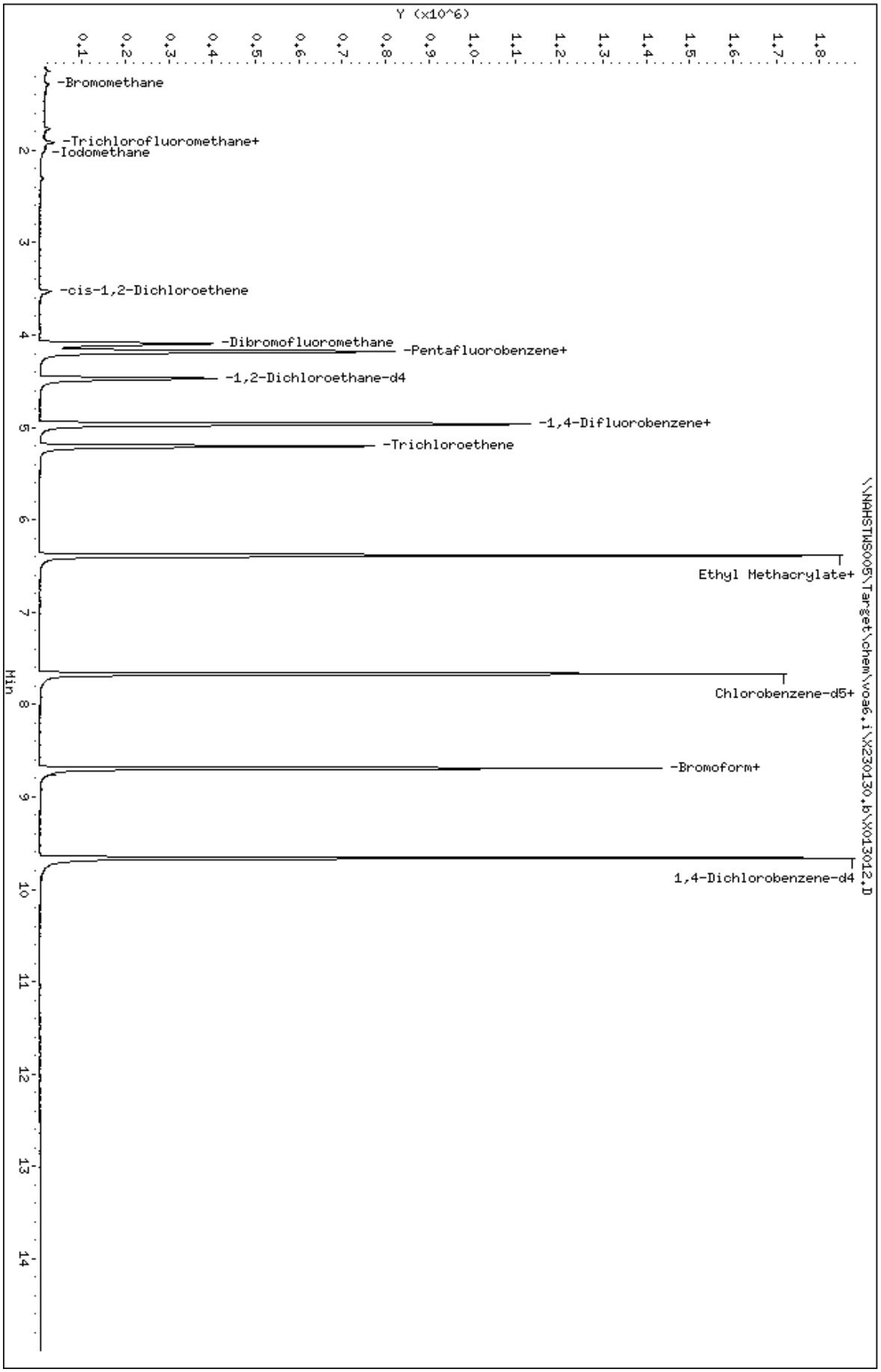
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	679149	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	291081	44.6185	44.61
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	335244	48.7132	48.71
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	955330	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	853380	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1105423	52.4205	52.42
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	407771	51.7306	51.73
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	458639	50.0000	
5 Vinyl Chloride	62	1.141	1.141	(0.273)	6565	1.10657	5.53(a)
27 cis-1,2-Dichloroethene	96	3.533	3.522	(0.846)	15028	2.14060	10.70(a)
38 Trichloroethene	130	5.205	5.205	(1.048)	261028	40.3411	201.70

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



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Sample Info: HS230111165-04;HS230111165-04;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013012.D Page 2

Date : 30-JAN-2023 16:59

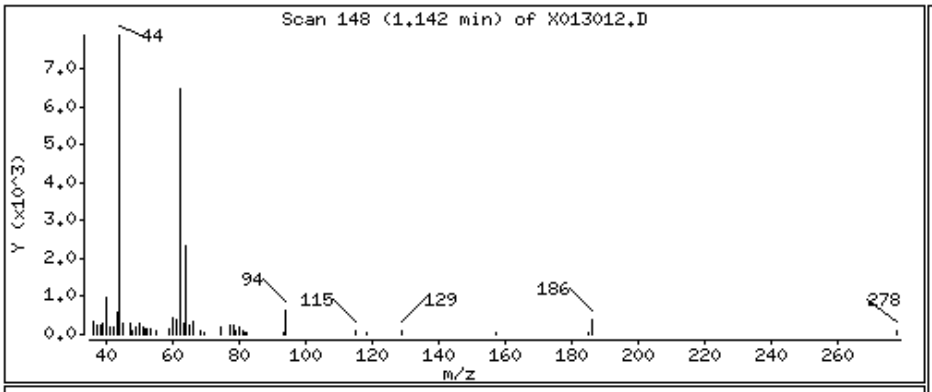
Client ID: HS23011165-04 Instrument: voa6.i

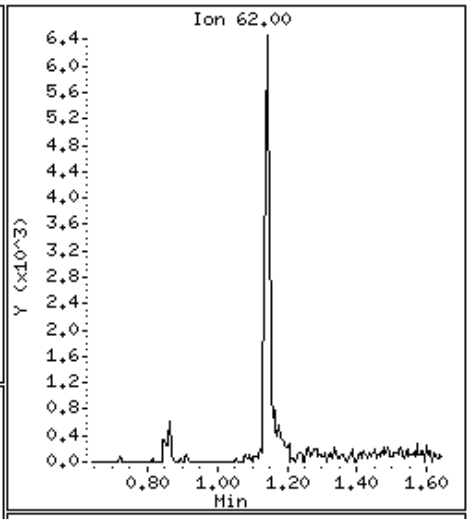
Sample Info: HS23011165-04;HS23011165-04;;;

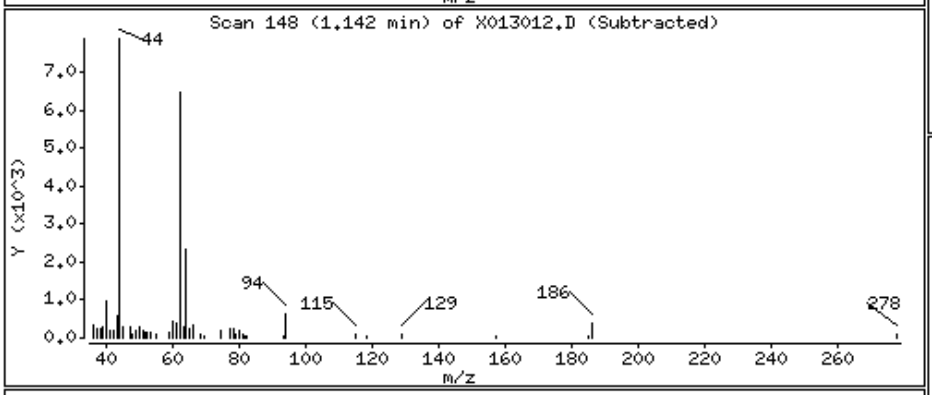
Purge Volume: 5.0 Operator: PC

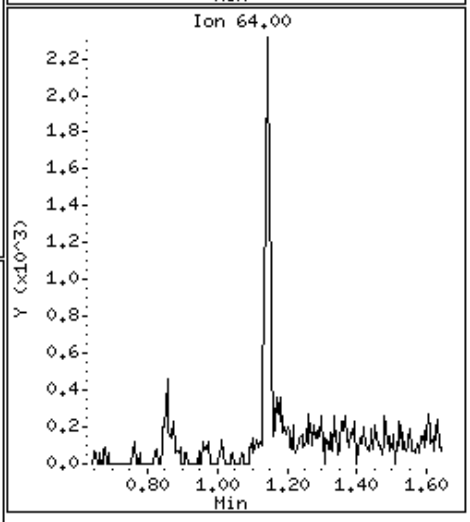
Column phase: DB624 Column diameter: 0.18

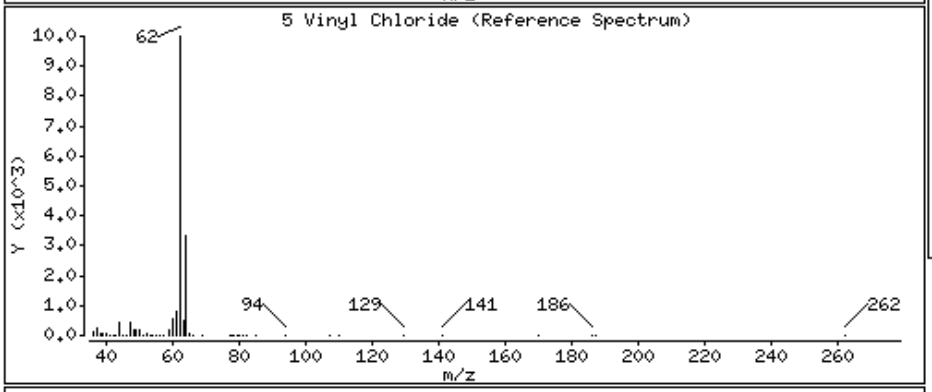
5 Vinyl Chloride Concentration: 5.53 ug/l

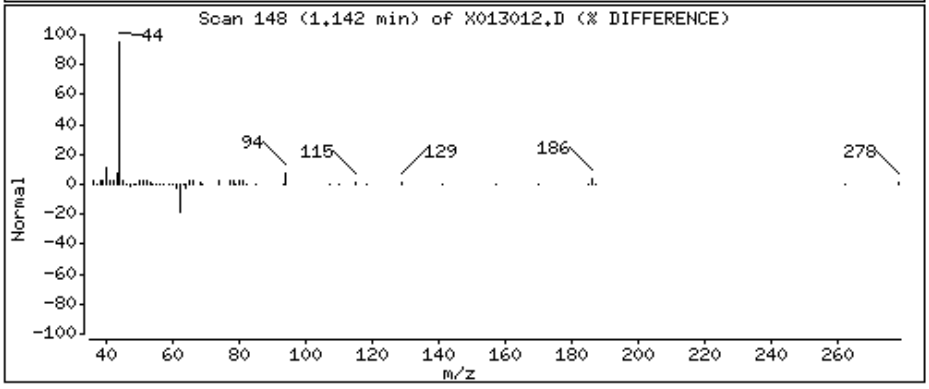












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013012.D Page 3

Date : 30-JAN-2023 16:59

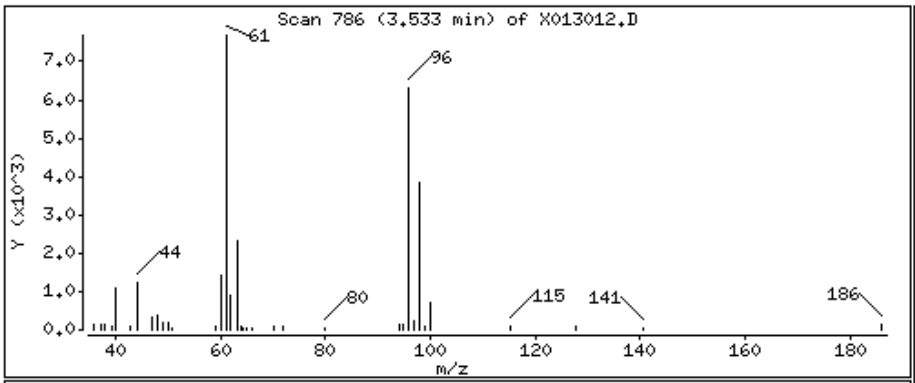
Client ID: HS23011165-04 Instrument: voa6.i

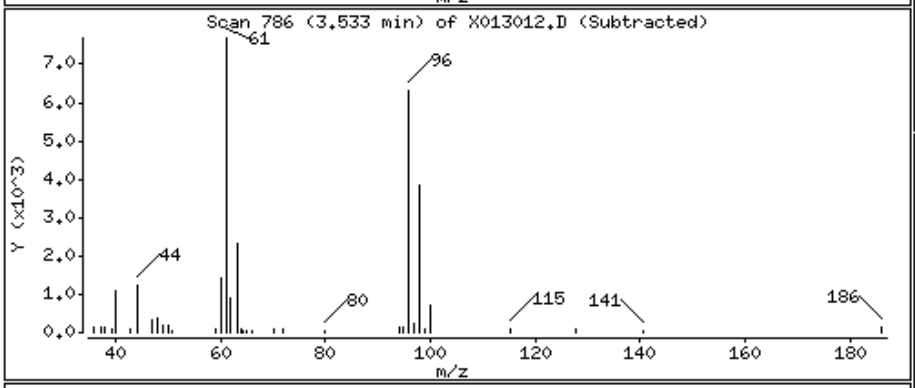
Sample Info: HS23011165-04;HS23011165-04;;;

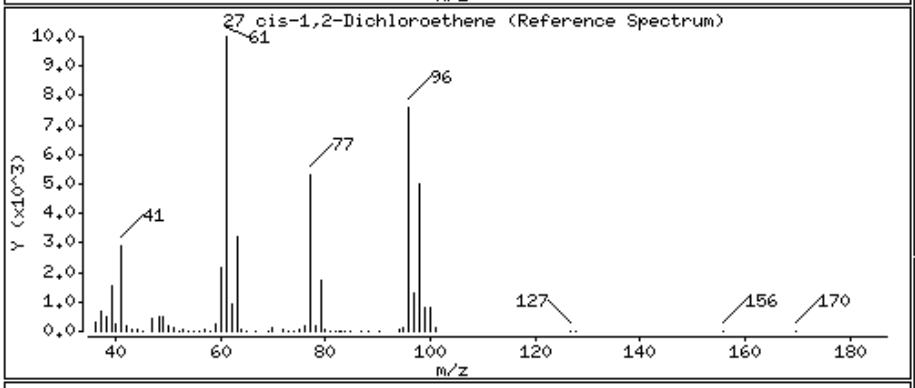
Purge Volume: 5.0 Operator: PC

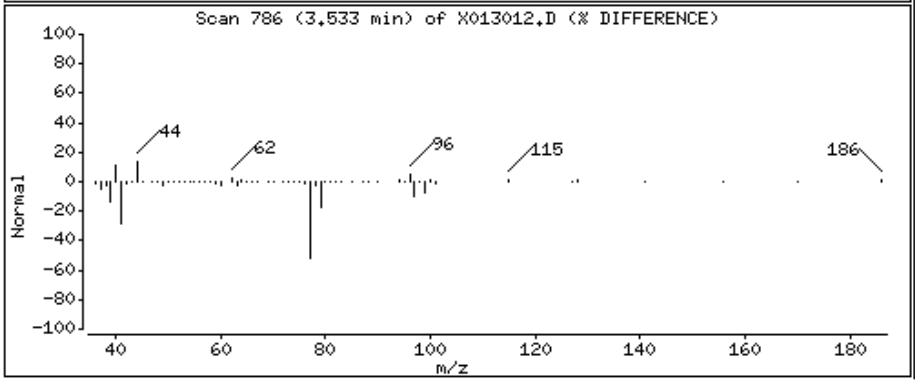
Column phase: DB624 Column diameter: 0.18

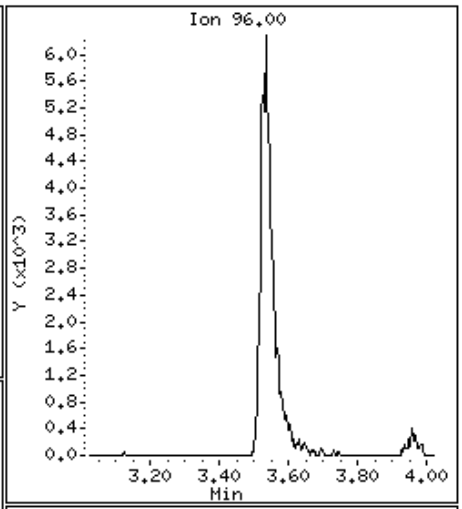
27 cis-1,2-Dichloroethene Concentration: 10.70 ug/l

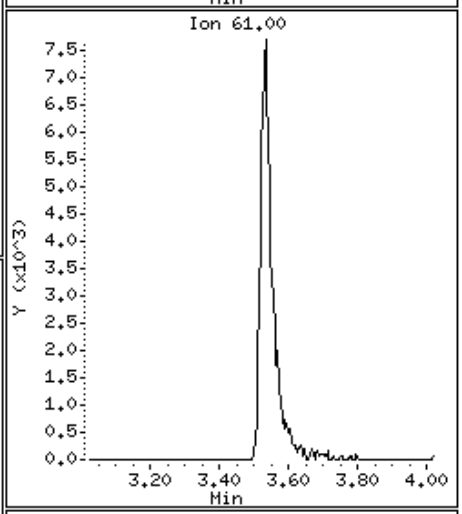


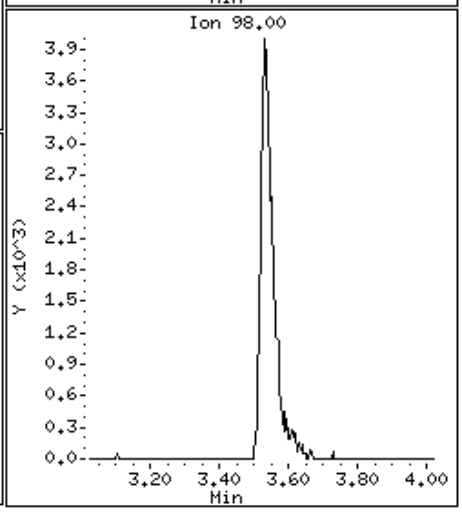












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013012.D Page 4

Date : 30-JAN-2023 16:59

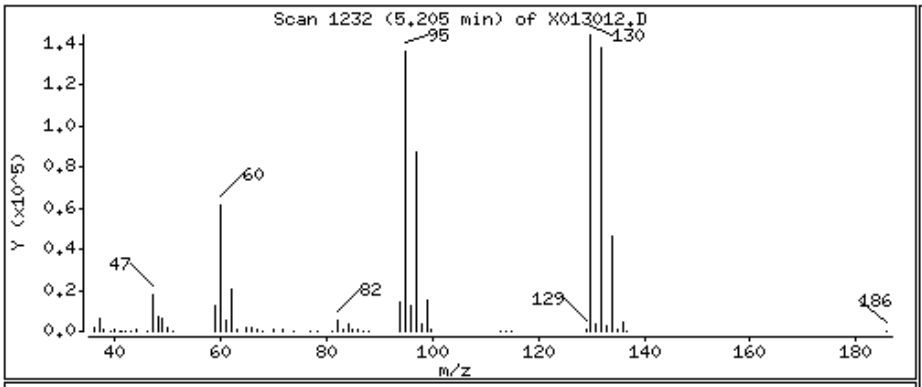
Client ID: HS23011165-04 Instrument: voa6.i

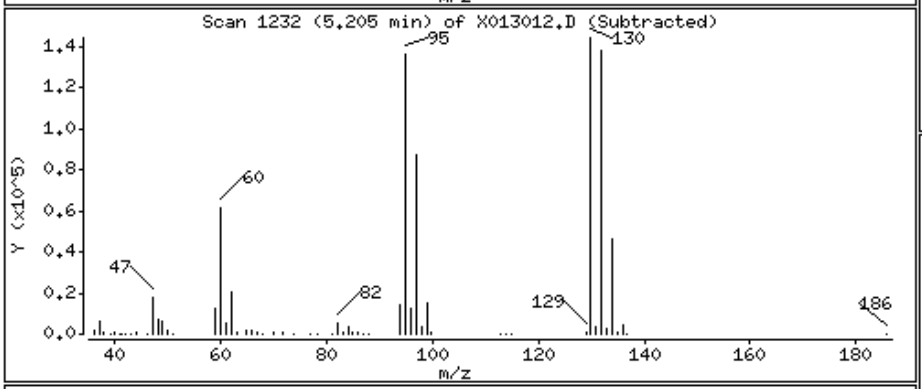
Sample Info: HS23011165-04;HS23011165-04;;;

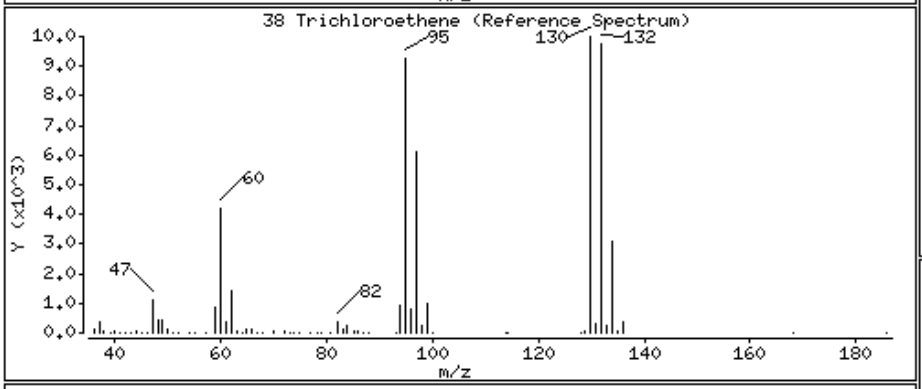
Purge Volume: 5.0 Operator: PC

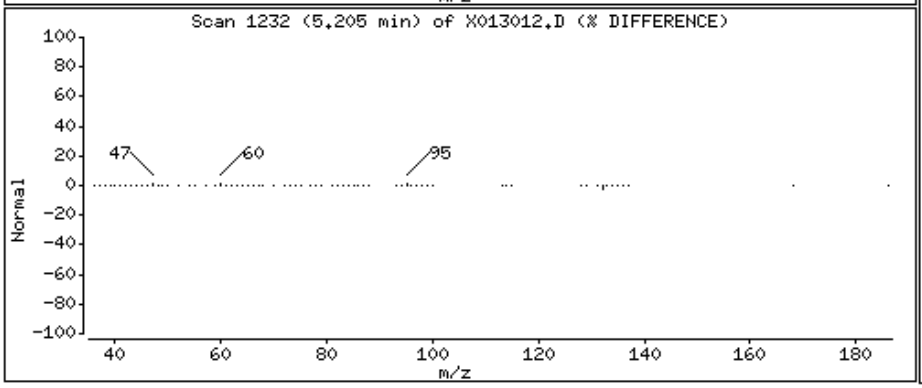
Column phase: DB624 Column diameter: 0.18

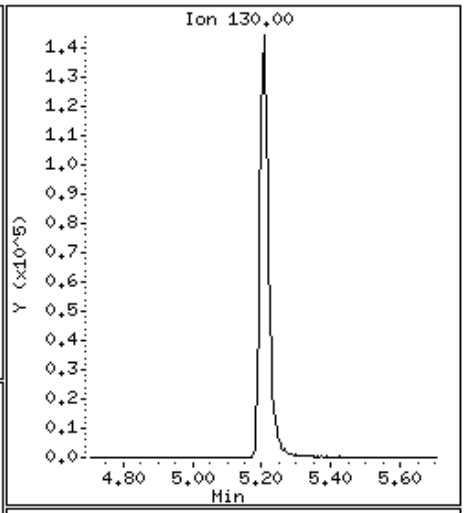
38 Trichloroethene Concentration: 201.70 ug/l

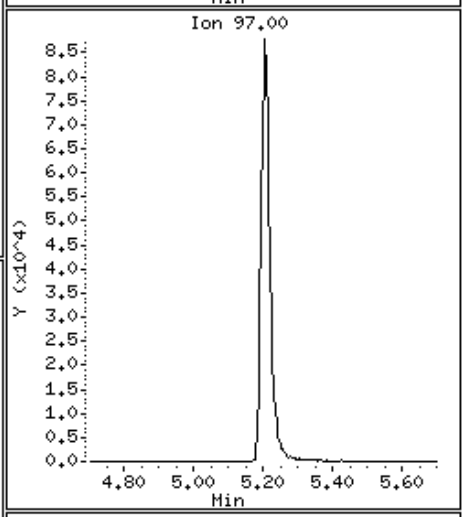


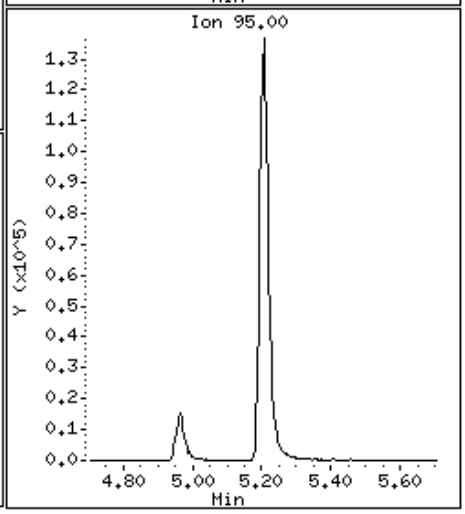












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Inj Date : 30-JAN-2023 16:59
InstruID : voa6.i
LabSampID : HS23011165-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013013.D Page 1
Report Date: 13-Feb-2023 13:51

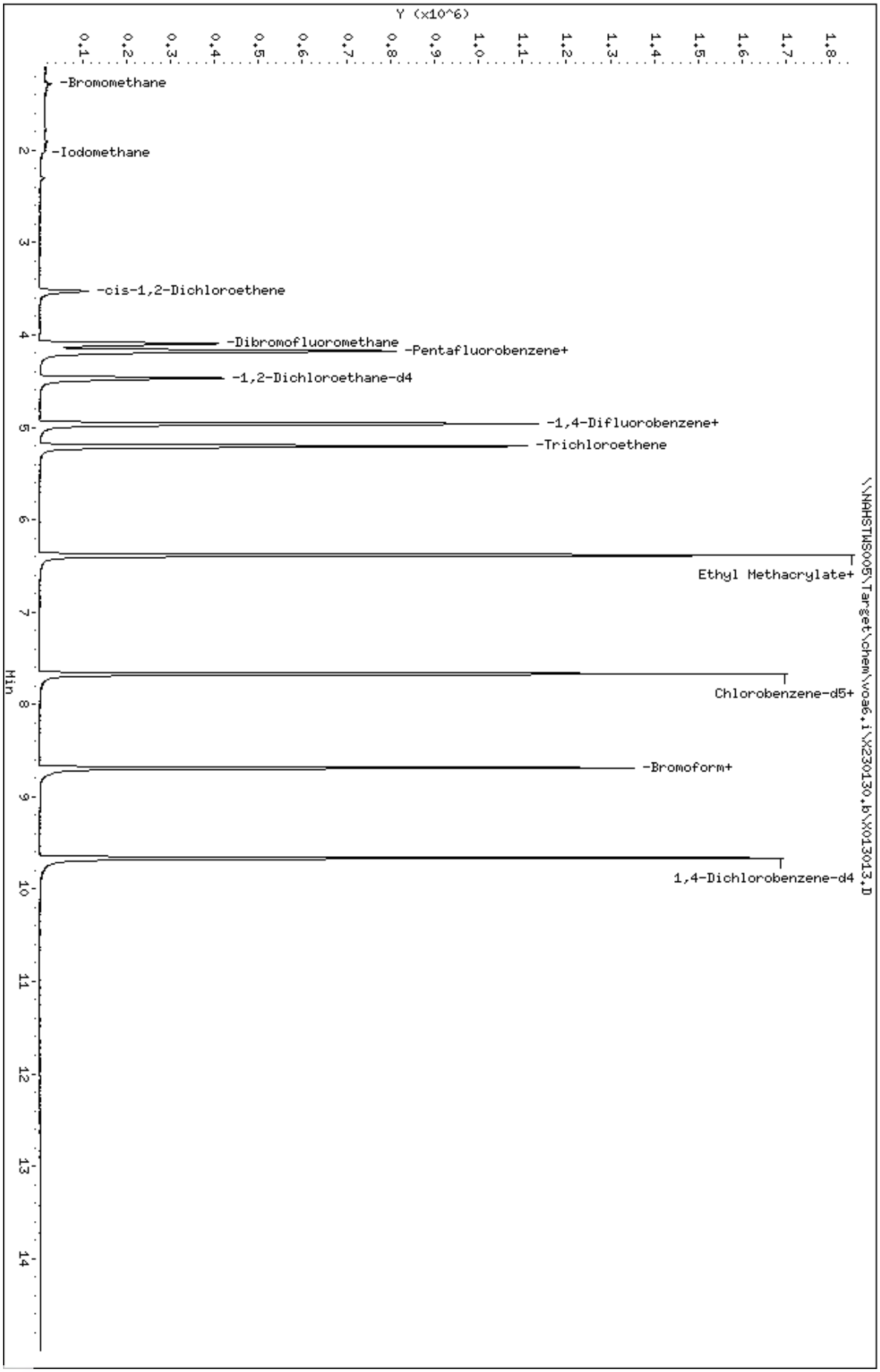
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013013.D
Lab Smp Id: HS23011165-05 Client Smp ID: HS23011165-05
Inj Date : 30-JAN-2023 17:20
Operator : PC Inst ID: voa6.i
Smp Info : HS23011165-05;HS23011165-05;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 13-Feb-2023 13:51 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 11
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	677382	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	294040	45.1917	45.19
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	338106	49.2542	49.25
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	953657	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	837014	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1091813	52.7874	52.78
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	394596	51.0388	51.03
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	425877	50.0000	
27 cis-1,2-Dichloroethene	96	3.529	3.522	(0.845)	62756	8.96231	896.23
38 Trichloroethene	130	5.205	5.205	(1.048)	378351	58.5756	5857.56



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Date : 30-JAN-2023 17:20
Client ID: HS23011165-05
Sample Info: HS23011165-05;HS23011165-05;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Page 1

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013013.D Page 2

Date : 30-JAN-2023 17:20

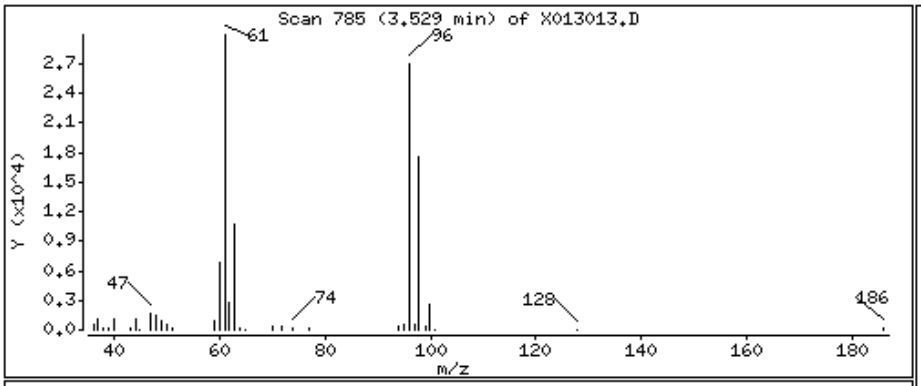
Client ID: HS23011165-05 Instrument: voa6.i

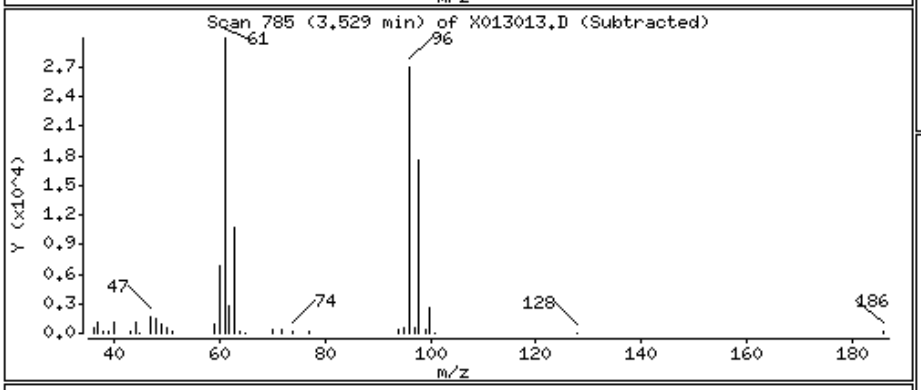
Sample Info: HS23011165-05;HS23011165-05;;;

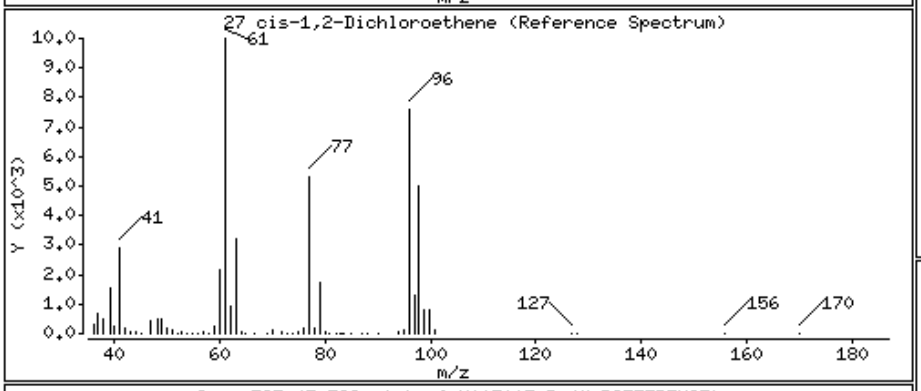
Purge Volume: 5.0 Operator: PC

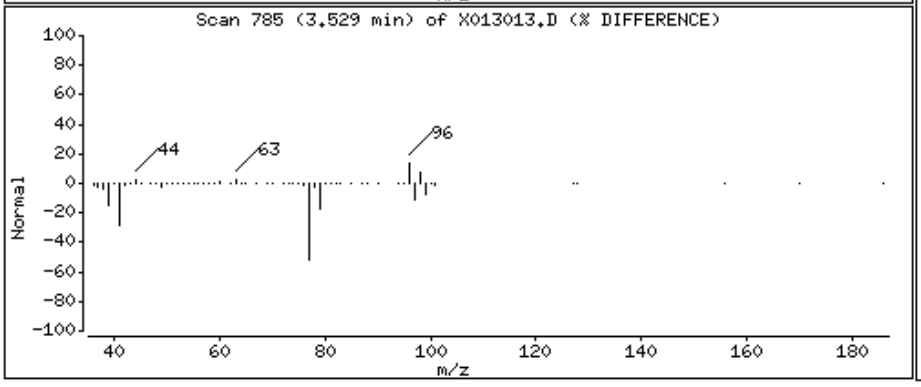
Column phase: DB624 Column diameter: 0.18

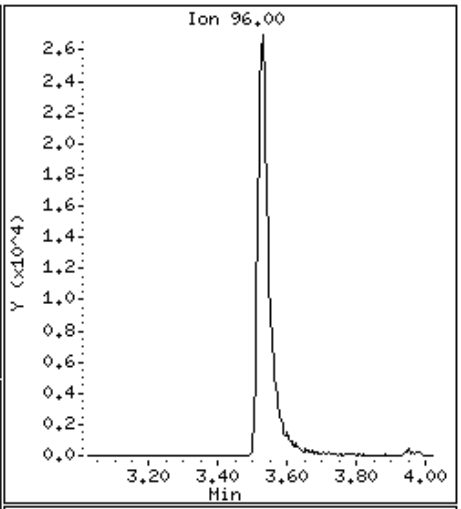
27 cis-1,2-Dichloroethene Concentration: 896.23 ug/l

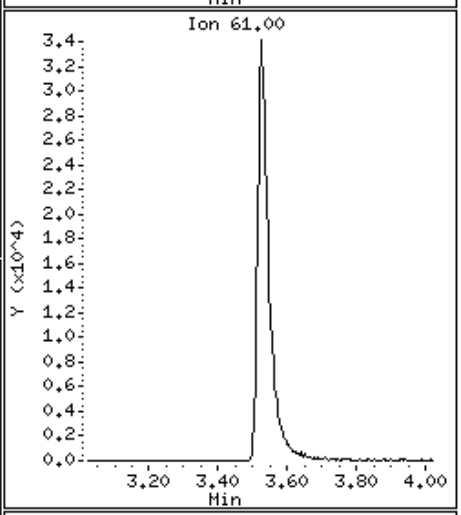


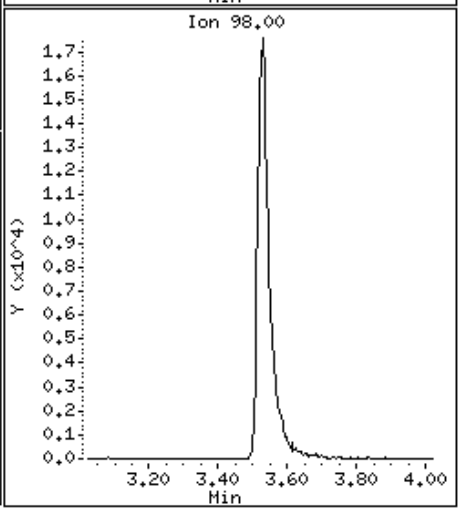












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013013.D Page 3

Date : 30-JAN-2023 17:20

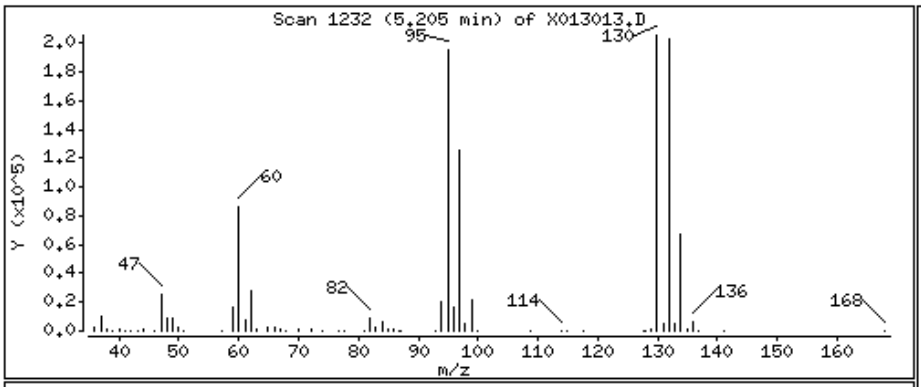
Client ID: HS23011165-05 Instrument: voa6.i

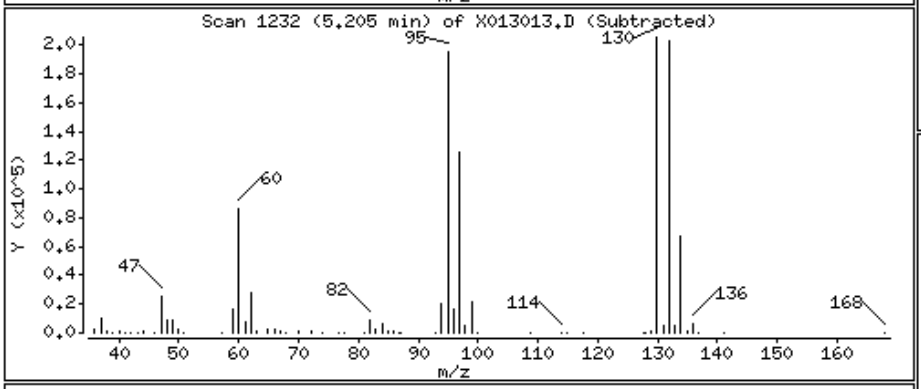
Sample Info: HS23011165-05;HS23011165-05;;;

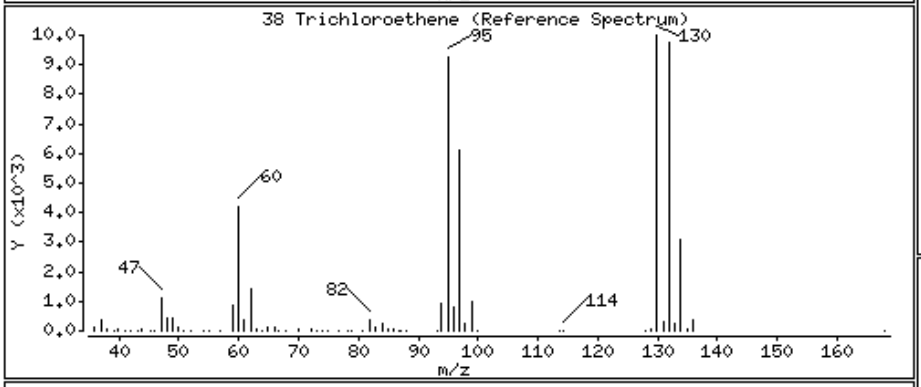
Purge Volume: 5.0 Operator: PC

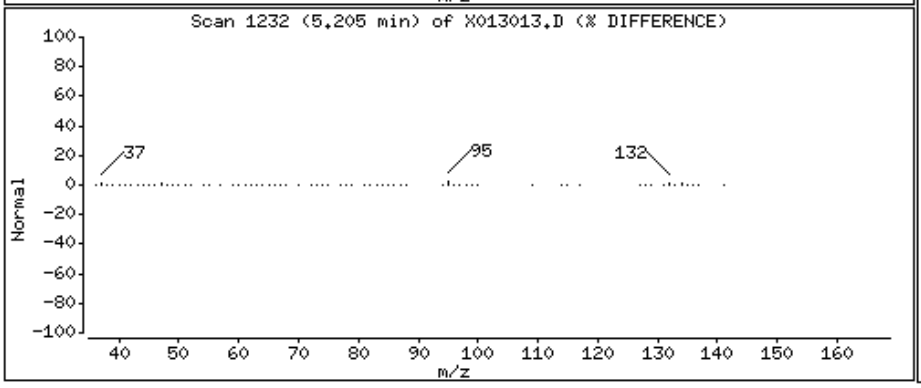
Column phase: DB624 Column diameter: 0.18

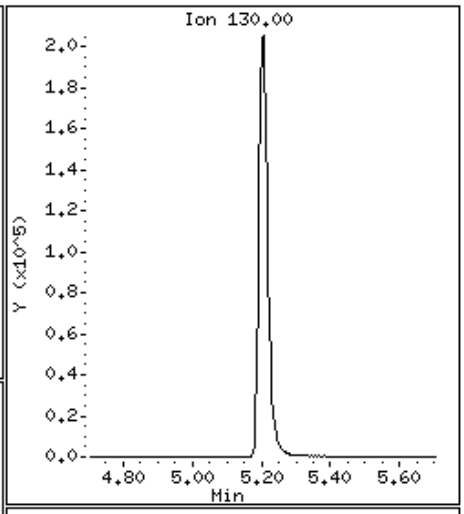
38 Trichloroethene Concentration: 5857.56 ug/l

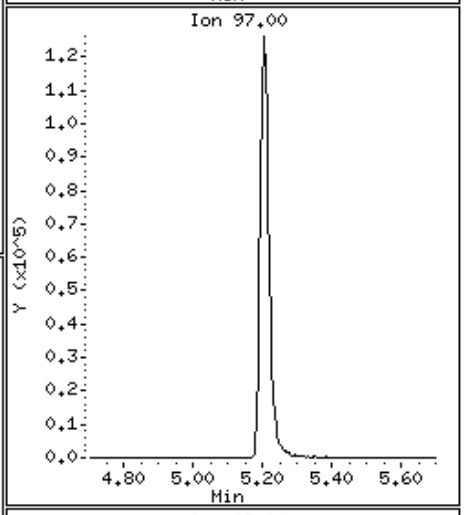


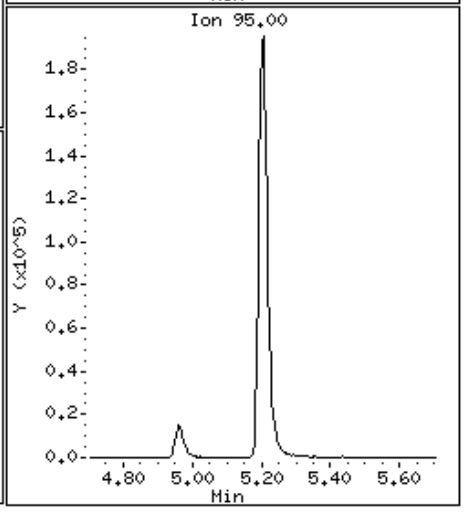












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Inj Date : 30-JAN-2023 17:20
InstruID : voa6.i
LabSampID : HS23011165-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013030.D Page 1
Report Date: 13-Feb-2023 13:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013030.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 30-JAN-2023 23:17
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\8260W.m
Meth Date : 13-Feb-2023 13:52 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.177	(1.000)	469554	50.0000	
135	1,4-Dioxane	88	5.598	5.598	(1.340)	54044	1000.00	1259.11
140	1,3-Butadiene	54	1.160	1.160	(0.278)	143342	50.0000	44.47
25	Methacrylonitrile	41	3.818	3.818	(0.914)	197629	50.0000	59.44
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	664930	1000.00	1258.99
13	Acetonitrile	39	2.194	2.194	(0.525)	215422	500.000	504.08
14	Allyl Chloride	41	2.194	2.194	(0.525)	422601	50.0000	51.92
4	Propionitrile	54	3.645	3.645	(0.873)	283044	500.000	590.76
72	trans-1,4-Dichloro-2-butene	53	8.889	8.889	(1.159)	55656	50.0000	33.93
23	Chloroprene	53	1.767	1.767	(0.423)	77484	50.0000	48.53(M)
130	Ethyl Acetate	43	3.649	3.649	(0.873)	206394	50.0000	56.33
40	Methyl Methacrylate	41	5.602	5.602	(1.341)	202203	50.0000	63.15
49	Ethyl Methacrylate	69	6.389	6.389	(1.288)	2750	50.0000	0.72(a)
139	Diethyl ether	59	1.752	1.752	(0.419)	146149	50.0000	46.58
142	Tetrahydrofuran	42	3.836	3.836	(0.918)	65831	100.000	113.18
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	495712	50.0000	54.08
156	Diisopropyl ether	45	2.997	2.997	(0.717)	700500	50.0000	57.50
182	Epichlorohydrin	57	6.093	6.093	(1.228)	55774	200.000	155.87
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1097867	50.0000	55.11
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	137118	50.0000	41.81

3 Chloromethane	50	1.074	1.074 (0.257)	196671	50.0000	46.45
5 Vinyl Chloride	62	1.141	1.141 (0.273)	197754	50.0000	48.21

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013030.D Page 2
Report Date: 13-Feb-2023 13:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
6	Bromomethane	94	1.336	1.336	(0.320)	123567	50.0000	40.18
7	Chloroethane	64	1.400	1.400	(0.335)	137560	50.0000	48.18
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	322605	50.0000	56.20
9	Acrolein	56	1.441	1.441	(0.345)	27535	100.000	86.14
10	Acetone	43	1.966	1.966	(0.471)	133869	100.000	101.60
11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	185707	50.0000	52.11
15	Iodomethane	142	2.022	2.022	(0.484)	465921	100.000	99.25
16	Acrylonitrile	53	2.528	2.528	(0.605)	145011	100.000	119.97
17	Methylene Chloride	84	2.299	2.299	(0.550)	257642	50.0000	52.70
18	Methyl tert-butyl ether	73	2.528	2.528	(0.605)	682775	50.0000	58.53
19	Carbon Disulfide	76	2.067	2.067	(0.495)	935447	100.000	100.32
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	213134	50.0000	53.43
21	Vinyl Acetate	43	2.997	2.997	(0.717)	437930	100.000	42.76
22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	402191	50.0000	57.45
24	2-Butanone	43	3.574	3.574	(0.856)	158947	100.000	113.31
26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	93904	50.0000	15.80
27	cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	260325	50.0000	53.63
28	Chloroform	83	3.900	3.900	(0.934)	453936	50.0000	57.85
29	Bromochloromethane	128	3.791	3.791	(0.908)	140699	50.0000	52.94
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.980)	235833	50.0000	52.31
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	404301	50.0000	64.95
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	321337	50.0000	56.44
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	360485	50.0000	54.86
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	342778	50.0000	56.38
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	292472	50.0000	61.39
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	801859	50.0000	
37	Benzene	78	4.507	4.507	(0.909)	994114	50.0000	51.91
38	Trichloroethene	130	5.205	5.205	(1.049)	362783	50.0000	66.79
39	Bromodichloromethane	83	5.722	5.722	(1.153)	365592	50.0000	50.87
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	229518	100.000	112.26
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	254854	50.0000	50.03
44	Dibromomethane	93	5.549	5.549	(1.119)	171305	50.0000	49.48
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	448681	100.000	110.48
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	347095	50.0000	41.12
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	759800	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	944569	50.0000	50.30
50	Toluene	91	6.442	6.442	(0.840)	1098775	50.0000	52.31
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	300758	50.0000	42.94
52	2-Hexanone	43	7.083	7.083	(0.924)	304430	100.000	110.17
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	212421	50.0000	50.41
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	427708	50.0000	51.57
55	Dibromochloromethane	129	7.173	7.173	(0.935)	314909	50.0000	51.78
56	Tetrachloroethene	164	6.925	6.925	(0.903)	235477	50.0000	54.19
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	279636	50.0000	53.08
58	1-Chlorohexane	55	7.694	7.694	(1.551)	213537	50.0000	55.10
59	Chlorobenzene	112	7.690	7.690	(1.003)	750211	50.0000	50.36
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	292412	50.0000	52.74
61	Ethylbenzene	106	7.799	7.799	(1.017)	388645	50.0000	55.38
62	m,p-Xylenes	106	7.900	7.900	(1.030)	963983	100.000	106.57
63	o-Xylene	106	8.237	8.237	(1.074)	475682	50.0000	53.28
64	Styrene	104	8.256	8.256	(1.077)	807659	50.0000	53.97
66	Bromoform	173	8.410	8.410	(1.097)	216715	50.0000	51.44

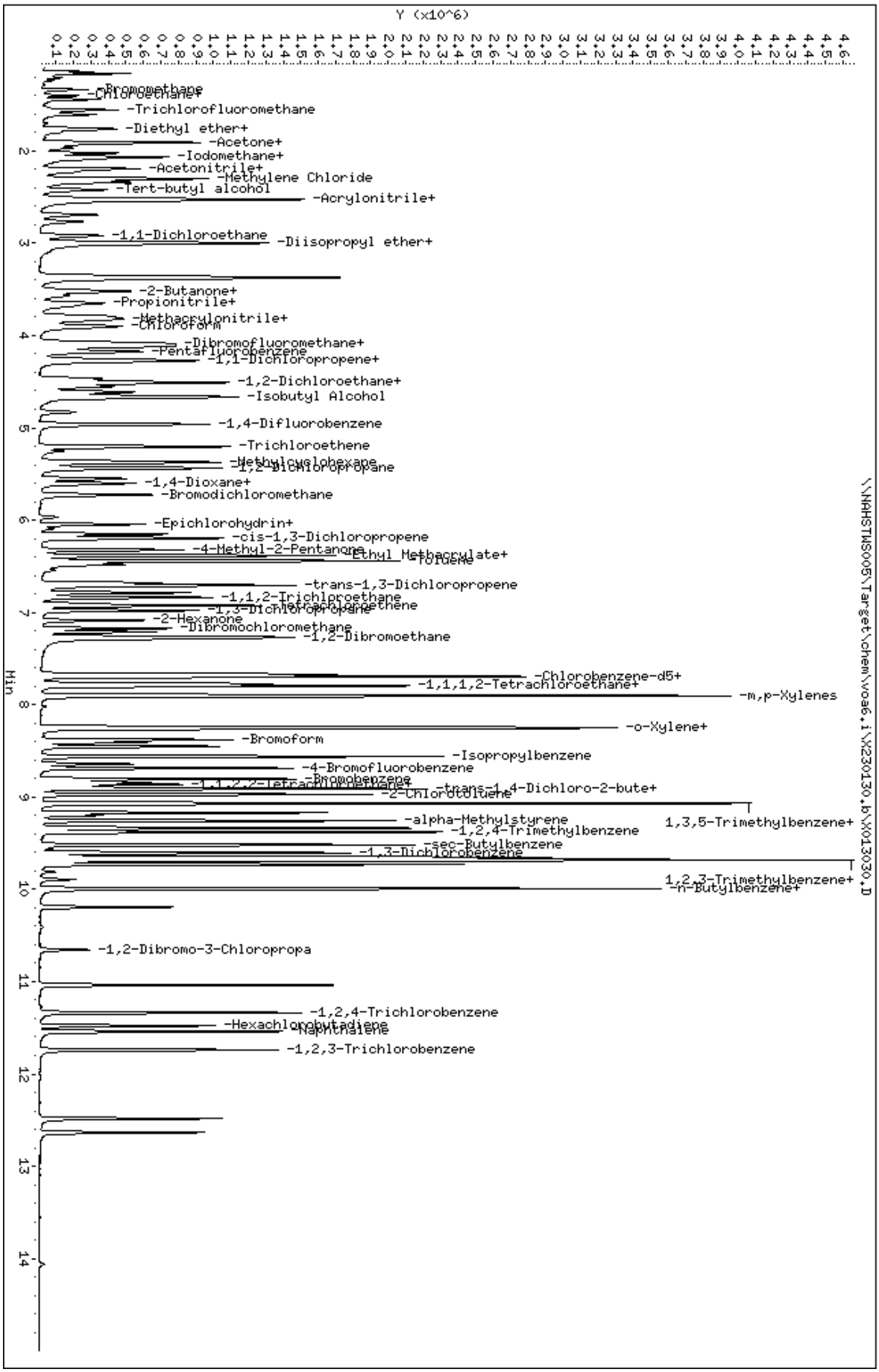
67	Isopropylbenzene	105	8.560	8.560 (1.116)	1208351	50.0000	59.24
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	233095	50.0000	35.35

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013030.D Page 3
Report Date: 13-Feb-2023 13:52

		QUANT SIG					AMOUNTS	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	365890	50.0000	52.13
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	413671	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	254528	50.0000	55.29(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1366007	50.0000	59.61
	74 Bromobenzene	156	8.803	8.803	(0.911)	362643	50.0000	53.43
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1029270	50.0000	60.80
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	864520	50.0000	57.49
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	983822	50.0000	57.39
	78 tert-Butylbenzene	119	9.647	9.647	(0.998)	1031304	50.0000	74.43
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1034391	50.0000	58.07
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1186315	50.0000	64.34
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	1031304	50.0000	62.42
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	617326	50.0000	54.80
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	636534	50.0000	51.78
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	827128	50.0000	51.88
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	628434	50.0000	54.16
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	58080	50.0000	55.08
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	410498	50.0000	56.06
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	167157	50.0000	51.49
	92 Naphthalene	128	11.540	11.540	(1.194)	967442	50.0000	58.07
	93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	392310	50.0000	55.94
M	94 1,2-Dichloroethylene (total)	96				473459	100.000	(a)
	141 Cyclohexane	56	4.121	4.121	(0.987)	319619	50.0000	67.08
	138 Freon TF	101	1.910	1.910	(0.457)	183397	50.0000	53.20
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	547454	50.0000	55.77
	146 Methyl Acetate	43	2.228	2.228	(0.533)	131450	50.0000	62.21
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	434777	1000.00	1337.22
	149 Isopropyl Alcohol	45	2.089	2.089	(0.500)	230624	1000.00	1358.20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

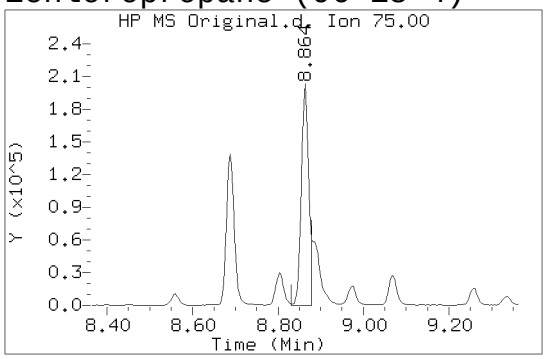
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230130.b\X013030.D
Inj Date : 30-JAN-2023 23:17
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

BEFORE

MASS
75
AREA
254528
HEIGHT
203384
09-Feb-2023
15:24
Kori
Bagsby



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09-Feb-2023
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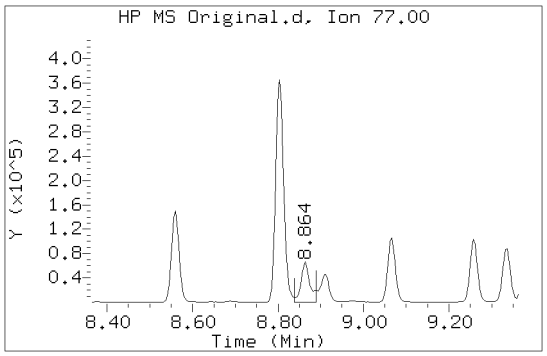

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13-Feb-2023
13:51
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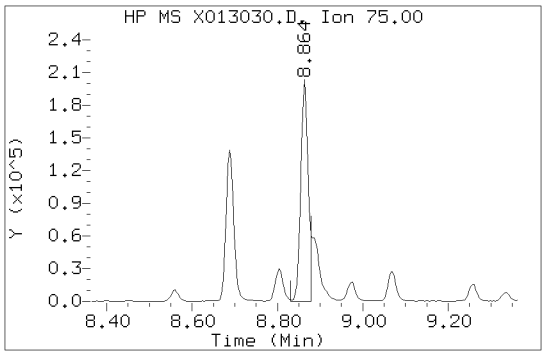

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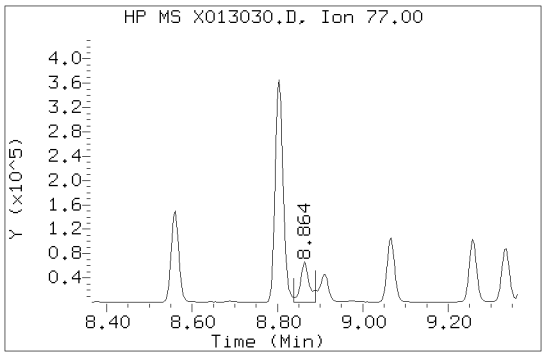

Chloroprene (126-99-8)

BEFORE

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HEIGHT
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09-Feb-2023
15:24
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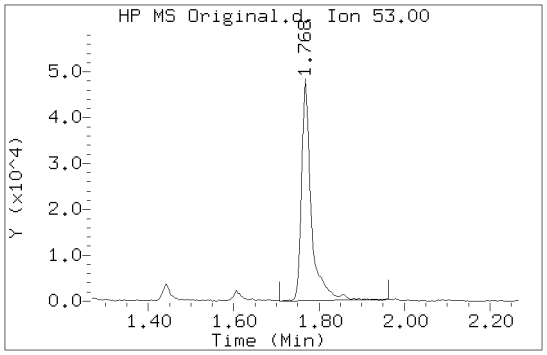
Bagsby



BEFORE

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09-Feb-2023
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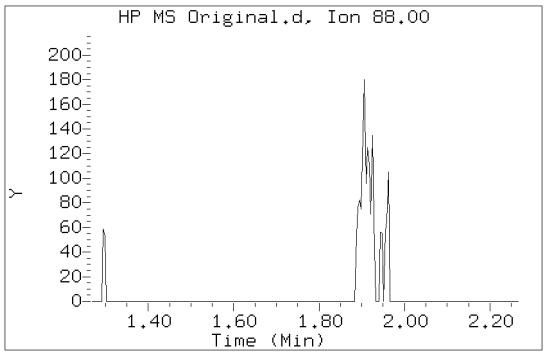

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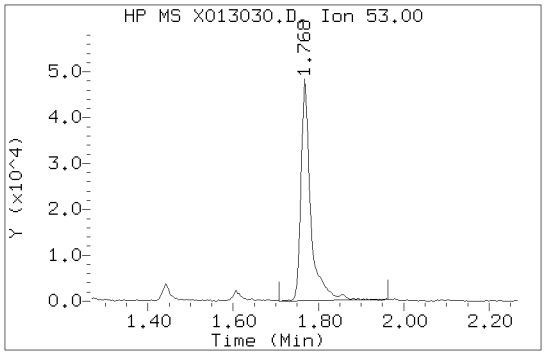

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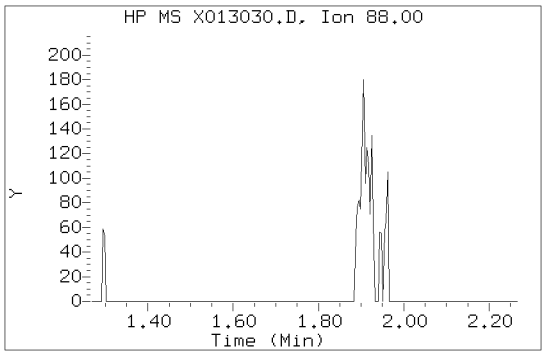

HS23011165-E2300078 Perchlorate Level IV Report

ALS WO# HS23011165

January 31, 2023 Service Request No:E2300078

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23011165

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory January 24, 2023
For your reference, these analyses have been assigned our service request number **E2300078.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300078
Project:	HS23011165	**Date Received:**	01/24/23
Sample Matrix:	Ground 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 01/24/23.

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:

EQ2300030: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300078
Project: HS23011165

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300078-001	16WW38-230120	1/20/2023	0910
E2300078-002	16WW38-230120-FD	1/20/2023	0910
E2300078-003	16WW37-230120	1/20/2023	1000
E2300078-004	16WW51-230120	1/20/2023	1105
E2300078-005	16RW12-230120	1/20/2023	1200
E2300078-006	16RW12-2301-FD	1/20/2023	1200
E2300078-007	16WW22-230120	1/20/2023	1255
E2300078-008	16WW56-230120	1/20/2023	1355

Service Request Summary

Folder #: **E2300078**
Client Name: ALS Environmental - US
Project Name: HS23011165
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 01/24/23
Internal Due Date: 2/6/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011165
EDD: EQUIS
EFWEDD_LHAAP

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300078-001	16WW38-230120	Ground Water	01/20/23 0910	**IV**
E2300078-002	16WW38-230120-FD	Ground Water	01/20/23 0910	**IV**
E2300078-003	16WW37-230120	Ground Water	01/20/23 1000	**IV**
E2300078-004	16WW51-230120	Ground Water	01/20/23 1105	**IV**
E2300078-005	16RW12-230120	Ground Water	01/20/23 1200	**IV**
E2300078-006	16RW12-2301-FD	Ground Water	01/20/23 1200	**IV**
E2300078-007	16WW22-230120	Ground Water	01/20/23 1255	**IV**
E2300078-008	16WW56-230120	Ground Water	01/20/23 1355	**IV**

Service Request Summary

Folder #: **E2300078**
Client Name: ALS Environmental - US
Project Name: HS23011165
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 01/24/23
Internal Due Date: 2/6/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011165
EDD: EQUIS
EFWEDD_LHAAP

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	8	IV Due 2/13

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

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

Chain of Custody

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Subcontract Chain of Custody

SAMPLING STATE: Dept of Defense **COC ID:** 20823

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084 **Phone:** +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23011165
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23011165-02**	**16WW38-230120**	**Water**	**20 Jan 2023 09:10**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
2.	**HS23011165-03**	**16WW38-230120-FD**	**Water**	**20 Jan 2023 09:10**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
3.	**HS23011165-04**	**16WW37-230120**	**Water**	**20 Jan 2023 10:00**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
4.	**HS23011165-05**	**16WW51-230120**	**Water**	**20 Jan 2023 11:05**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
5.	**HS23011165-06**	**16RW12-230120**	**Water**	**20 Jan 2023 12:00**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
6.	**HS23011165-07**	**16RW12-2301-FD**	**Water**	**20 Jan 2023 12:00**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
7.	**HS23011165-08**	**16WW22-230120**	**Water**	**20 Jan 2023 12:55**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023
8.	**HS23011165-09**	**16WW56-230120**	**Water**	**20 Jan 2023 13:55**

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **20823**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			08 Feb 2023

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: [illegible] Date/Time: 1-24-23 1700

Cooler ID(s): Temperature(s):

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID IR31

Date/Time Received: 1-24-23 Initials: CG

Date/Time Logged in: 1-24-23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No

Were they intact? ○ Yes ○ No ☒ N/A

Were they signed and dated? ○ Yes ○ No ☒ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		1-24-23	1700	CG	3.7	☒
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No

10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

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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

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Preparation Information Benchsheet

Prep Run#: 413591 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/26/23 15:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300067-001	130_011723	.01	6850/ClO4 DOD			Water	10mL	
2	E2300067-002	17WW03_011723	.01	6850/ClO4 DOD			Water	10mL	
3	E2300067-003	17WW03_011723_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2300067-004	17WW01_011723	.01	6850/ClO4 DOD			Water	10mL	
5	E2300067-005	17WW02_011723	.01	6850/ClO4 DOD			Water	10mL	
6	E2300067-006	17WW06_011723	.01	6850/ClO4 DOD			Water	10mL	
7	E2300068-005	RSA-135H-OVB-02	.01	6850/ClO4 DOD			Water	10mL	
8	E2300068-006	RSA-135H-OVB-03	.01	6850/ClO4 DOD			Water	10mL	
9	E2300068-007	RSA-135H-OVB-04	.01	6850/ClO4 DOD			Water	10mL	
10	E2300068-008	RSA-135H-OVB-05	.01	6850/ClO4 DOD			Water	10mL	
11	E2300068-009	RSA-FB-02-230123	.01	6850/ClO4 DOD			Water	10mL	
12	E2300068-010	RSA-EB-02-230123	.01	6850/ClO4 DOD			Water	10mL	
13	E2300078-001	16WW38-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300078-002	16WW38-230120-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300078-003	16WW37-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300078-004	16WW51-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300078-005	16RW12-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300078-006	16RW12-2301-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2300078-007	16WW22-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
20	E2300078-008	16WW56-230120	.01	6850/ClO4 DOD			Ground Water	10mL	
21	EQ2300030-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300030-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2300030-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2300030-04	17WW01_011723 MS	.01	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300030-05	17WW01_011723 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 226778 Logbook Ref: Perchlorate Internal Standard Expires On: 05/31/2023

E2300068-005	100.00µL	E2300068-006	100.00µL	E2300068-007	100.00µL	E2300068-008	100.00µL	E2300068-009	100.00µL	E2300068-010	100.00µL
EQ2300030-01	100.00µL	EQ2300030-02	100.00µL	EQ2300030-03	100.00µL	EQ2300030-04	100.00µL	EQ2300030-05	100.00µL		

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300030-02	1.00µL	EQ2300030-03	1.00µL	EQ2300030-04	1.00µL	EQ2300030-05	1.00µL

Preparation Information Benchsheet

Prep Run#: 413591 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/26/23 15:25

Preparation Materials

Water HPLC Grade	01/04/2023 Water (226857)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Pipette Tips 50-1000 uL	6850 Pipette Tips (221929)	6850 Luer-Lok Syringes	Luer-Lok Syringes (221305)		

Preparation Steps

Step: Preparation
Started: 1/26/23 15:25
Finished: 1/27/23 16:11
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 01/26/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 0910
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW38-230120	**Units:**	µg/L
Lab Code:	E2300078-001	**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	**2.14**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 09:50	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 0910
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW38-230120-FD	**Units:**	µg/L
Lab Code:	E2300078-002	**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	**1.38**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 09:56	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1000
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW37-230120	**Units:**	µg/L
Lab Code:	E2300078-003	**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	**11.3**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:01	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1105
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW51-230120	**Units:**	µg/L
Lab Code:	E2300078-004	**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	ND	U	0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:07	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1200
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16RW12-230120	**Units:**	µg/L
Lab Code:	E2300078-005	**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	**0.0598**	J	0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:56	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1200
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16RW12-2301-FD	**Units:**	µg/L
Lab Code:	E2300078-006	**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	**0.0597**	J	0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:19	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1255
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW22-230120	**Units:**	µg/L
Lab Code:	E2300078-007	**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	**0.488**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:24	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	1/20/23 1355
Sample Matrix:	Ground Water	**Date Received:**	1/24/23
Sample Name:	16WW56-230120	**Units:**	µg/L
Lab Code:	E2300078-008	**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	**0.167**		0.100	0.0500	0.0250	1	1/26/23	1/30/23 10:30	413591	792992	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300030-01	**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	1/26/23	1/27/23 15:12	413591	792859	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165
Sample Matrix: Ground Water

Service Request: E2300078
Date Analyzed: 1/27/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 413591

	Lab Control Sample EQ2300030-02			Duplicate Lab Control Sample EQ2300030-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0853	0.100	85	0.0873	0.100	87	84 - 119	2	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300030-02	**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	**0.0853**	J	0.100	0.0500	0.0250	1	1/26/23	1/27/23 15:23	413591	792859	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300030-03	**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	**0.0873**	J	0.100	0.0500	0.0250	1	1/26/23	1/27/23 15:37	413591	792859	

Initial Calibration

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20221214

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 12/14/2022
Cal. Std. xp: 01/31/2023
ICAL ID: EC2200016

Mobile Phases : **A:**0.10% Formic Acid/Water 3210301-08 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	IB		20221214_001	Perchlorate6850c.lcm	1x	☒		12/14/2022 15:12
2	ICS		20221214_002	Perchlorate6850c.lcm	1x	☒		12/14/2022 15:29
3	LODV		20221214_003	Perchlorate6850c.lcm	1x	☒		12/14/2022 15:35
4	PERCHLORATE1		20221214_004	Perchlorate6850c.lcm	1x	☒	226061	12/14/2022 15:40
5	PERCHLORATE2		20221214_005	Perchlorate6850c.lcm	1x	☒	226062	12/14/2022 15:46
6	PERCHLORATE3		20221214_006	Perchlorate6850c.lcm	1x	☒	226063	12/14/2022 15:51
7	PERCHLORATE4		20221214_007	Perchlorate6850c.lcm	1x	☒	226064	12/14/2022 15:57
8	PERCHLORATE5		20221214_008	Perchlorate6850c.lcm	1x	☒	226065	12/14/2022 16:02
9	PERCHLORATE6		20221214_009	Perchlorate6850c.lcm	1x	☒	226066	12/14/2022 16:09
10	PERCHLORATE7		20221214_010	Perchlorate6850c.lcm	1x	☒	225881	12/14/2022 16:15
11	PERCHLORATE8		20221214_011	Perchlorate6850c.lcm	1x	☒	226068	12/14/2022 16:20
12	PERCHLORATE9		20221214_012	Perchlorate6850c.lcm	1x	☒	226069	12/14/2022 16:25
13	PERCHLORATE10		20221214_013	Perchlorate6850c.lcm	1x	☒	226070	12/14/2022 16:31
14	PERCHLORATEICV		20221214_014	Perchlorate6850c.lcm	1x	☒	226067	12/14/2022 16:37

Initial Calibration - Detailed Report

Calibration ID: EC2200016 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2200016-01	PERCHLORATE1	20221214_004	12/14/2022 15:40
02	EC2200016-02	PERCHLORATE2	20221214_005	12/14/2022 15:46
03	EC2200016-03	PERCHLORATE3	20221214_006	12/14/2022 15:51
04	EC2200016-04	PERCHLORATE4	20221214_007	12/14/2022 15:57
05	EC2200016-05	PERCHLORATE5	20221214_008	12/14/2022 16:02
06	EC2200016-06	PERCHLORATE6	20221214_009	12/14/2022 16:09
07	EC2200016-07	PERCHLORATE7	20221214_010	12/14/2022 16:15
08	EC2200016-08	PERCHLORATE8	20221214_011	12/14/2022 16:20
09	EC2200016-09	PERCHLORATE9	20221214_012	12/14/2022 16:25
10	EC2200016-10	PERCHLORATE10	20221214_013	12/14/2022 16:31

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 2.927** **Average RF = 0.1567**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1615	02	0.5000	0.1479	03	0.7000	0.1579	04	1.0000	0.1573
05	2.0000	0.1505	06	5.0000	0.1573	07	10.0000	0.1541	08	20.0000	0.162
09	30.0000	0.1598	10	50.0000	0.1587						

Analyte

Perchlorate RSE = 2.93

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.103	3.1	02	0.5000	0.472	-5.6	03	0.7000	0.705	0.8
04	1.0000	1.00	0.4	05	2.0000	1.92	-3.9	06	5.0000	5.02	0.4
07	10.0000	9.83	-1.7	08	20.0000	20.7	3.4	09	30.0000	30.6	2.0
10	50.0000	50.6	1.3								

Initial Calibration Verification Summary Report

Calibration ID:	EC2200016	**Instrument ID:**	E-LCMS-01
Datafile ID:	20221214_014	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2200016-11	T	Average RF	10	9.359	ng/mL	-6.4	<= 15

Insight Report

Printed at 12/15/2022 10:55:51 AM

Method File: I:\LCMS01\DATA\20221013ICAL\20221013ICAL.lcm
Project File: I:\LCMS01\DATA\20221214\12142022 ICAL.damlp

PERCHLORATE1

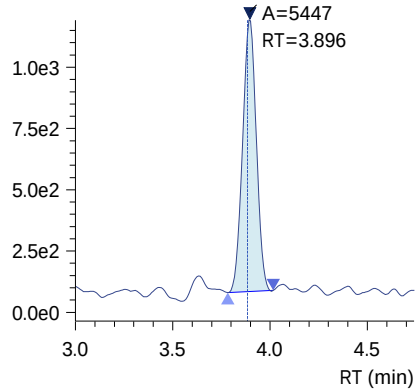
Sample ID: PERCHLORATE1
Date Acquired: 12/14/2022 3:40:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_004.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.896	5447	337240	0.1031	ng/mL	101.00 >85.00	35.31	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.889	337240	337240	1.0000	ng/mL	----	----	

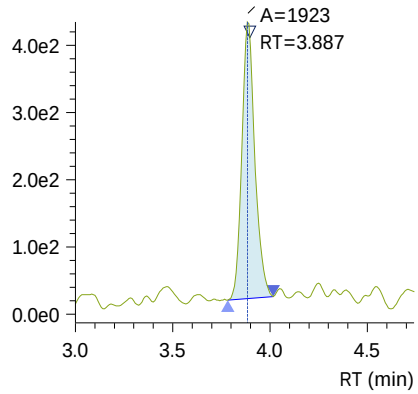
Perchlorate

Conc 0.1031
R#1 35.31 (34.02)

Q 99.00>83.00 (-) 1.19e3



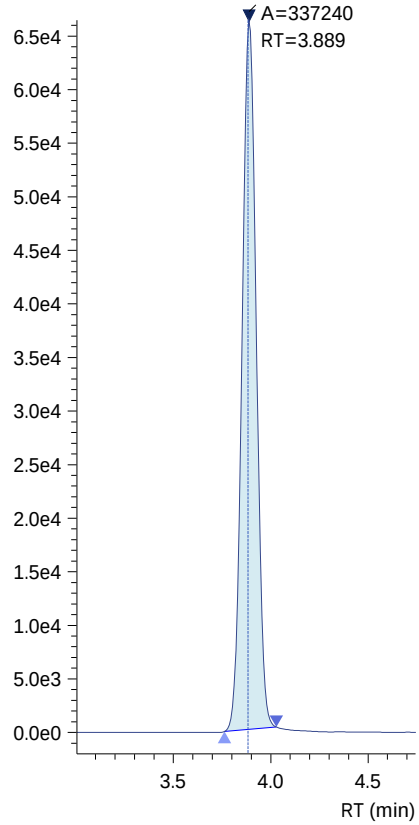
R1 101.00>85.00 (-) 4.35e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.65e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

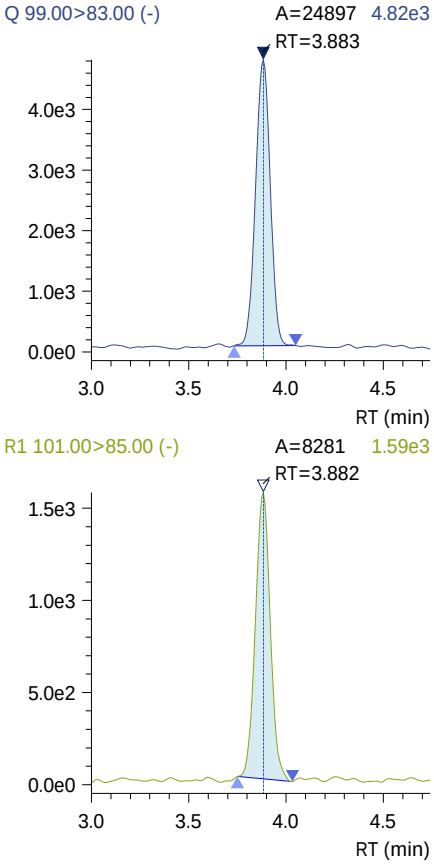
PERCHLORATE2

Sample ID: PERCHLORATE2
Date Acquired: 12/14/2022 3:46:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_005.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.883	24897	336620	0.4720	ng/mL	101.00 >85.00	33.26	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.878	336620	336620	1.0000	ng/mL	----	----	

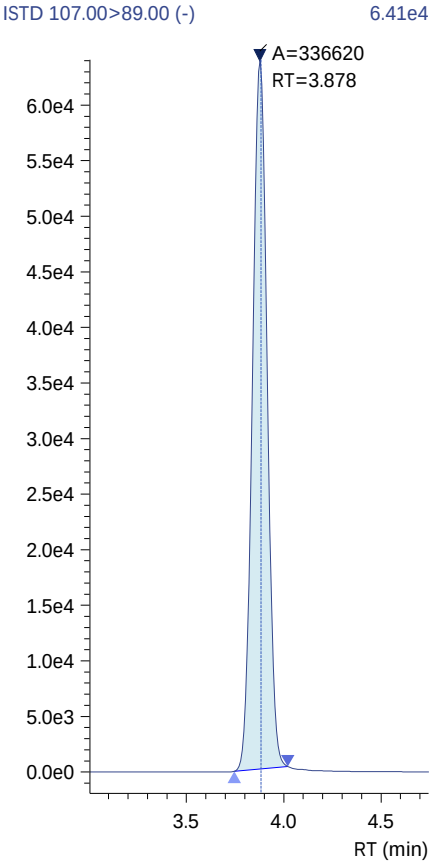
Perchlorate

Conc 0.4720
R#1 33.26 (34.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 12/15/2022 10:55:51 AM

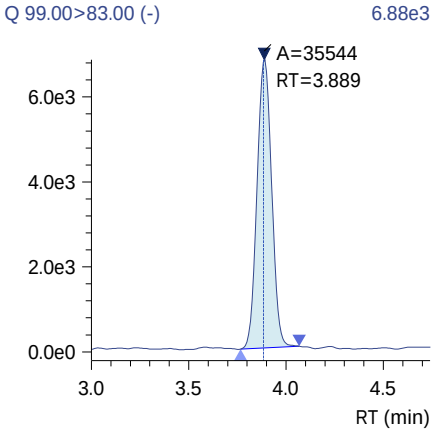
PERCHLORATE3

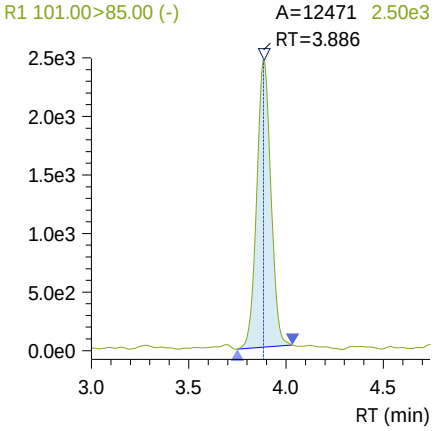
Sample ID: PERCHLORATE3
Date Acquired: 12/14/2022 3:51:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_006.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.889	35544	321596	0.7053	ng/mL	101.00 >85.00	35.09	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.885	321596	321596	1.0000	ng/mL	----	----	

Perchlorate

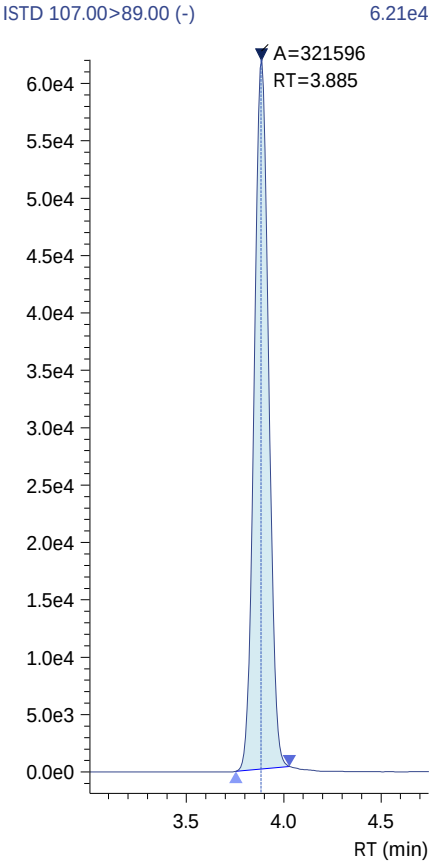
Conc 0.7053
R#1 35.09 (34.02)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE4

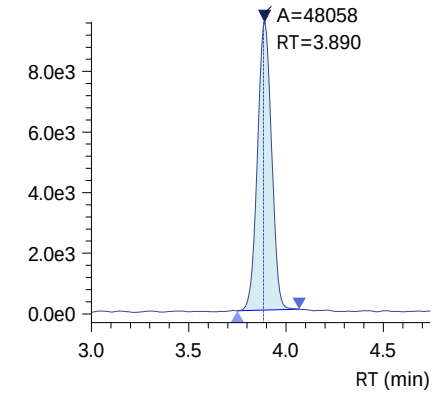
Sample ID: PERCHLORATE4
Date Acquired: 12/14/2022 3:57:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_007.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.890	48058	305584	1.0036	ng/mL	101.00 >85.00	33.87	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.886	305584	305584	1.0000	ng/mL	----	----	

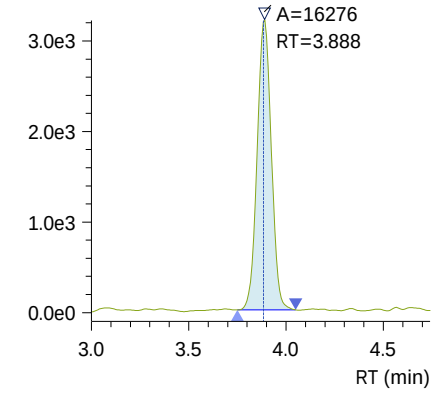
Perchlorate

Conc 1.0036
R#1 33.87 (34.02)

Q 99.00>83.00 (-) 9.64e3



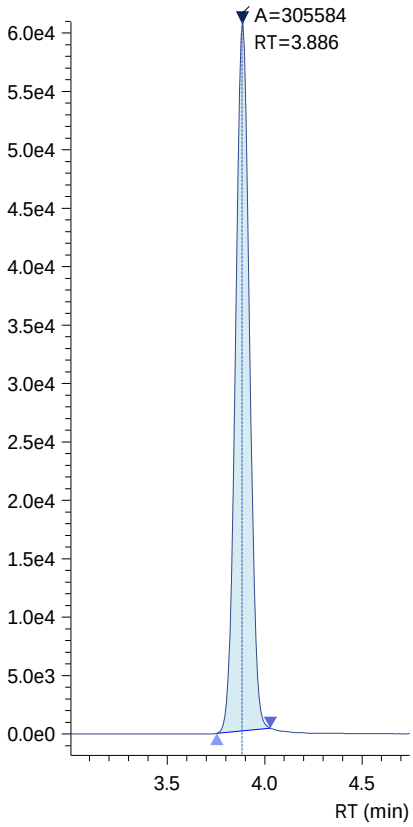
R1 101.00>85.00 (-) 3.23e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.10e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

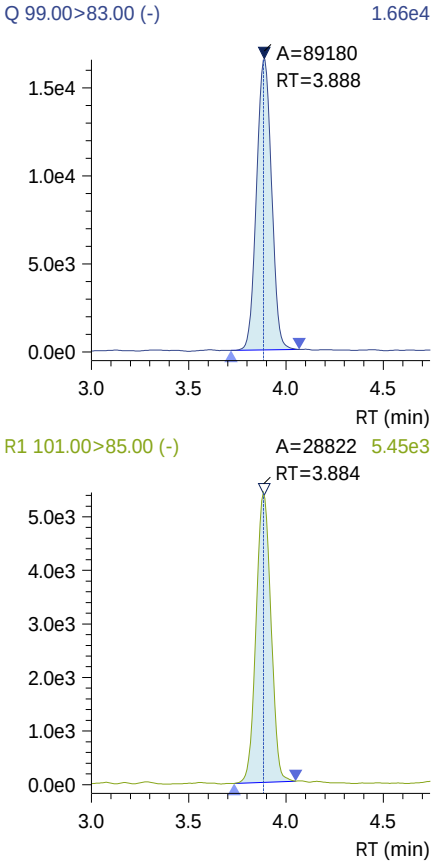
PERCHLORATE5

Sample ID: PERCHLORATE5
Date Acquired: 12/14/2022 4:02:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_008.lcd
Vial: 5 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.888	89180	296200	1.9213	ng/mL	101.00 >85.00	32.32	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.885	296200	296200	1.0000	ng/mL	----	----	

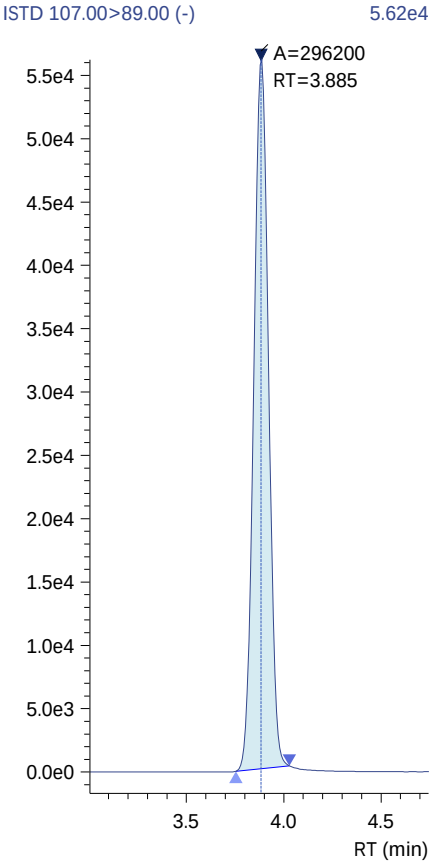
Perchlorate

Conc 1.9213
R#1 32.32 (34.02)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE6

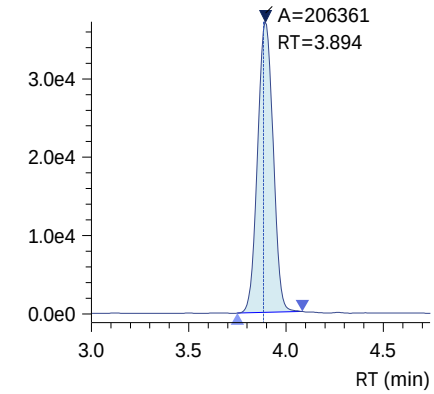
Sample ID: PERCHLORATE6
Date Acquired: 12/14/2022 4:09:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_009.lcd
Vial: 6 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.894	206361	262312	5.0202	ng/mL	101.00 >85.00	33.93	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.889	262312	262312	1.0000	ng/mL	----	----	

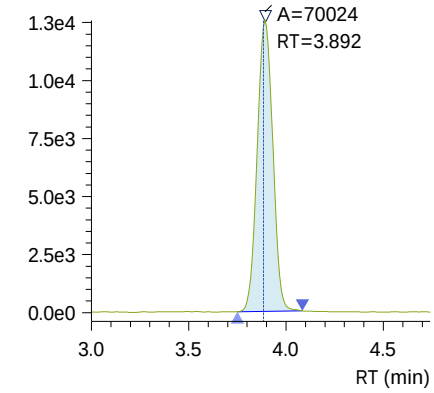
Perchlorate

Conc 5.0202
R#1 33.93 (34.02)

Q 99.00>83.00 (-) 3.73e4



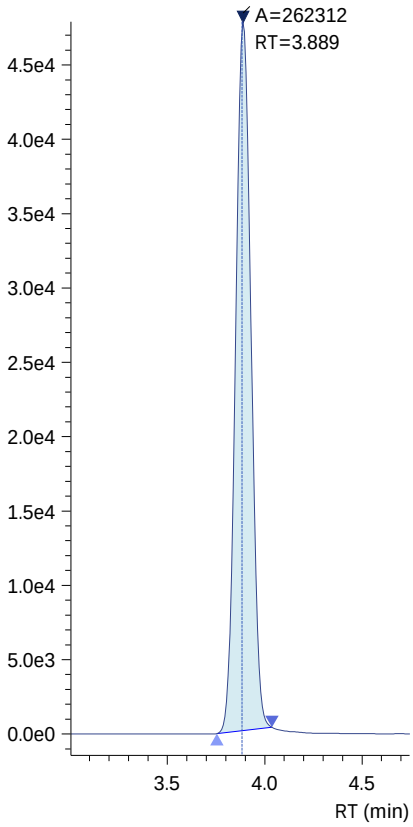
R1 101.00>85.00 (-) 1.26e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.79e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE7

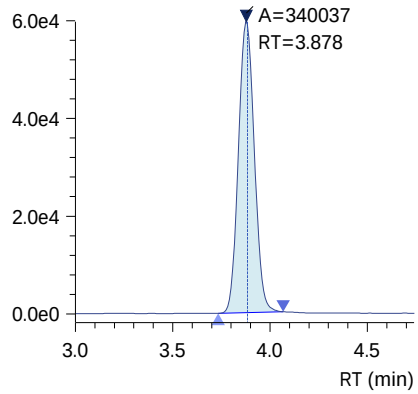
Sample ID: PERCHLORATE7
Date Acquired: 12/14/2022 4:15:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_010.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.878	340037	220702	9.8317	ng/mL	101.00 >85.00	34.05	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.875	220702	220702	1.0000	ng/mL	----	----	

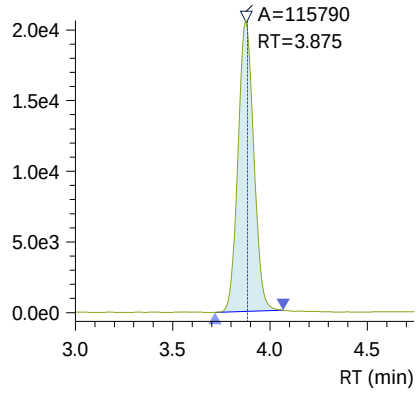
Perchlorate

Conc 9.8317
R#1 34.05 (34.02)

Q 99.00>83.00 (-) 5.98e4



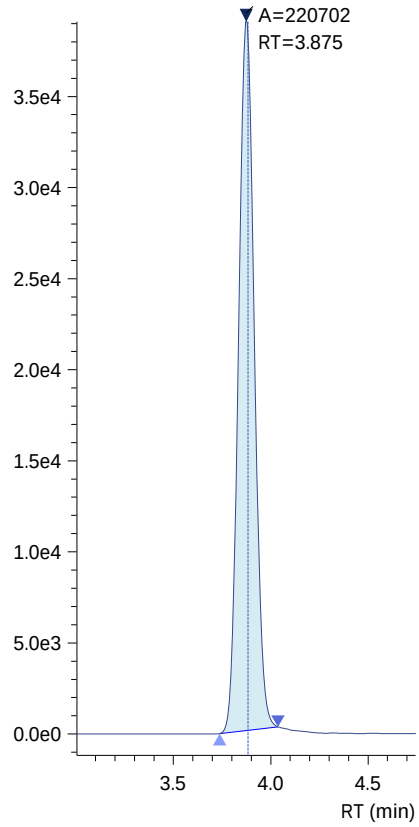
R1 101.00>85.00 (-) 2.07e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.91e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE8

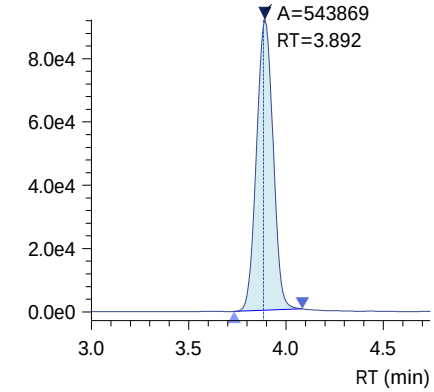
Sample ID: PERCHLORATE8
Date Acquired: 12/14/2022 4:20:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_011.lcd
Vial: 8 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.892	543869	167819	20.6806	ng/mL	101.00 >85.00	33.45	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.888	167819	167819	1.0000	ng/mL	----	----	

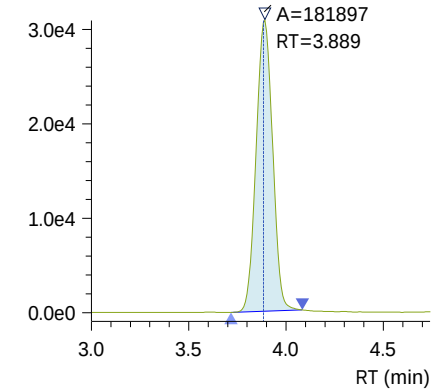
Perchlorate

Conc 20.6806
R#1 33.45 (34.02)

Q 99.00>83.00 (-) 9.23e4



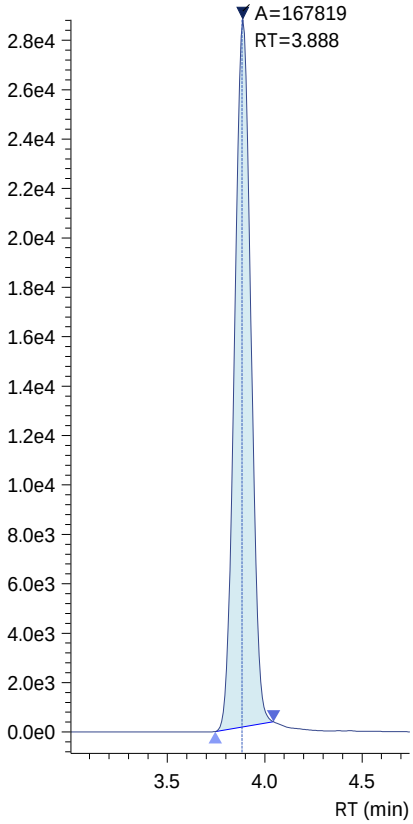
R1 101.00>85.00 (-) 3.09e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.88e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE9

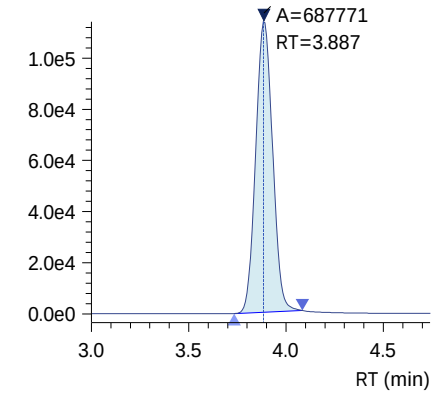
Sample ID: PERCHLORATE9
Date Acquired: 12/14/2022 4:25:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_012.lcd
Vial: 9 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.887	687771	143493	30.5860	ng/mL	101.00 >85.00	33.79	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.883	143493	143493	1.0000	ng/mL	----	----	

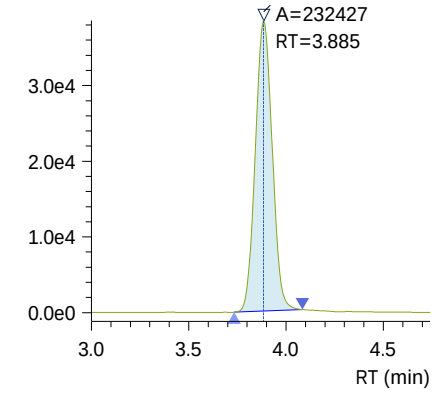
Perchlorate

Conc 30.5860
R#1 33.79 (34.02)

Q 99.00>83.00 (-) 1.14e5



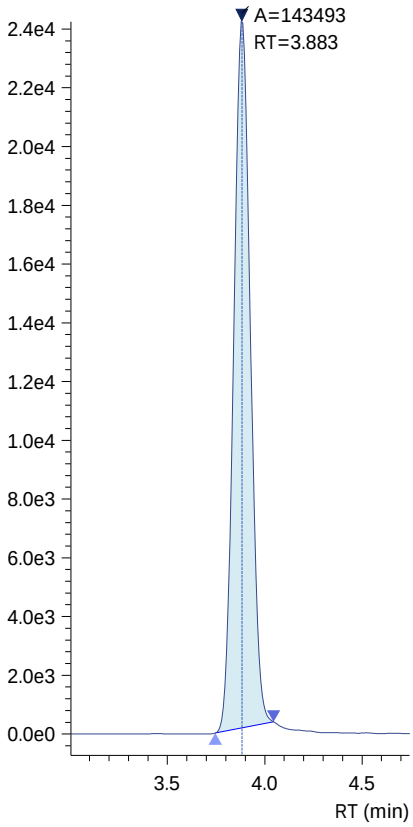
R1 101.00>85.00 (-) 3.86e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.43e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATE10

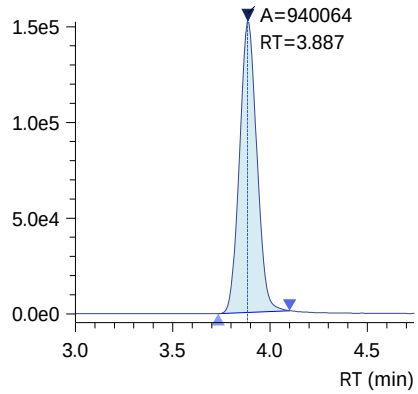
Sample ID: PERCHLORATE10
Date Acquired: 12/14/2022 4:31:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_013.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.887	9400 64	118445	50.6 464	ng/mL	101.00 >85.00	33.39	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.883	1184 45	118445	1.0000	ng/mL	----	----	

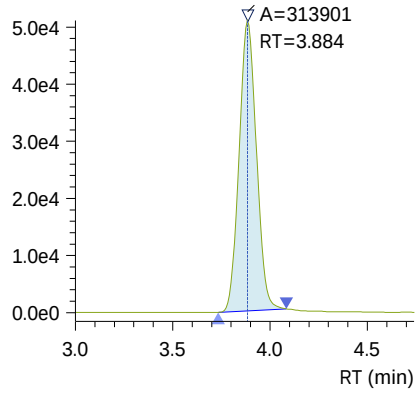
Perchlorate

Conc 50.6464
R#1 33.39 (34.02)

Q 99.00>83.00 (-) 1.53e5



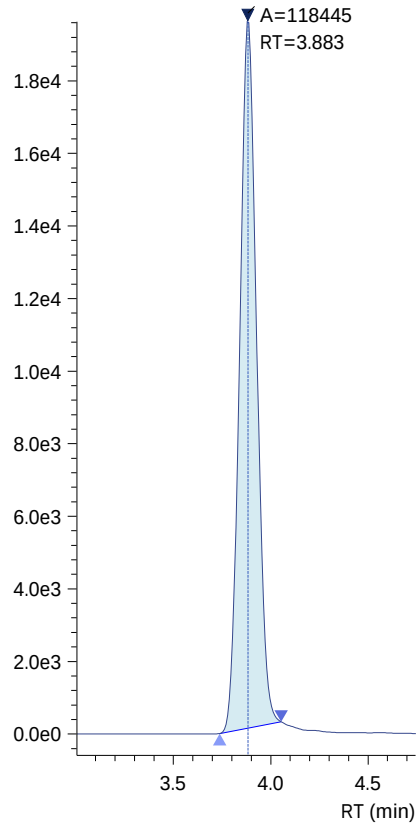
R1 101.00>85.00 (-) 5.12e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.96e4



Insight Report

Printed at 12/15/2022 10:55:51 AM

PERCHLORATEICV

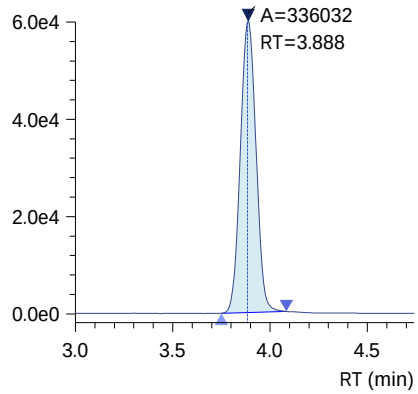
Sample ID: PERCHLORATEICV
Date Acquired: 12/14/2022 4:37:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20221214\20221214_014.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.888	336032	229124	9.3588	ng/mL	101.00 >85.00	33.58	23.94 -44.46
Sodium Perchlorate-18O4_IS	Auto	3.884	229124	229124	1.0000	ng/mL	----	----	

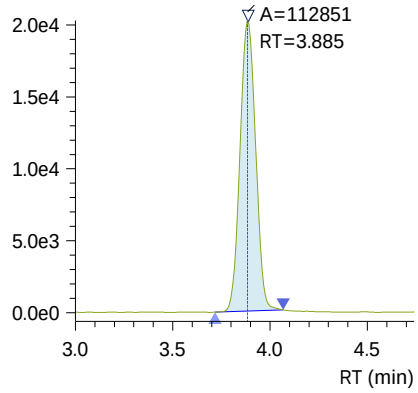
Perchlorate

Conc 9.3588
R#1 33.58 (34.02)

Q 99.00>83.00 (-) 6.01e4



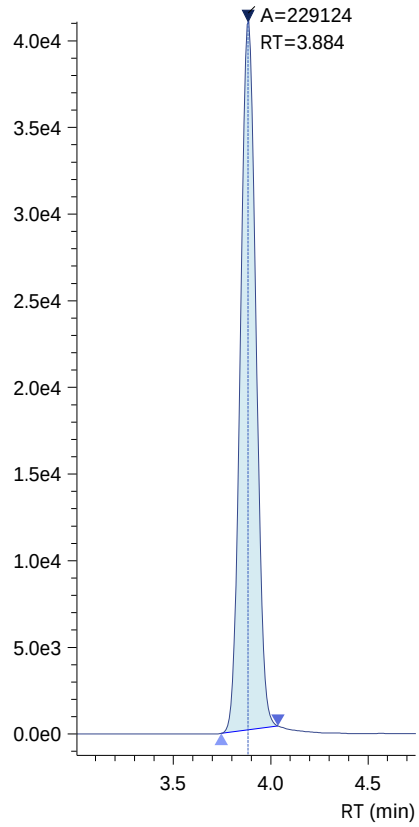
R1 101.00>85.00 (-) 2.03e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.11e4



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

20230130-792992

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 12/14/2022
Cal. Std. xp: 01/31/2023
ICAL ID: EC2200016

Mobile Phases : A:0.10% Formic Acid/Water 3210303-02 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	ICS		20230130-002	Perchlorate6850c.lcm	1x	☒	32103024	1/30/2023 9:14
2	LODV		20230130-003	Perchlorate6850c.lcm	1x	☒	225199	1/30/2023 9:31
3	PERCHLORATE7		20230130-004	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 9:38
4	E2300068-008		20230130-005	Perchlorate6850c.lcm	1x	☒		1/30/2023 9:44
5	E2300078-001		20230130-006	Perchlorate6850c.lcm	1x	☒		1/30/2023 9:50
6	E2300078-002		20230130-007	Perchlorate6850c.lcm	1x	☒		1/30/2023 9:56
7	E2300078-003		20230130-008	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:01
8	E2300078-004		20230130-009	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:07
9	E2300078-005		20230130-010	Perchlorate6850c.lcm	1x	☒	DNU-IR	1/30/2023 10:13
10	E2300078-006		20230130-011	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:19
11	E2300078-007		20230130-012	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:24
12	E2300078-008		20230130-013	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:30
13	E2300078-005		20230130-014	Perchlorate6850c.lcm	1x	☒		1/30/2023 10:56
14	PERCHLORATE7		20230130-015	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 11:02
15	E2300067-002		20230130-016	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:07
16	E2300067-003		20230130-017	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:13
17	E2300067-005		20230130-018	Perchlorate6850c.lcm	1000x	☒		1/30/2023 11:23
18	E2300067-006		20230130-019	Perchlorate6850c.lcm	5000x	☒		1/30/2023 11:29
19	E2300068-006		20230130-020	Perchlorate6850c.lcm	5x	☒		1/30/2023 11:35
20	E2300068-007		20230130-021	Perchlorate6850c.lcm	20x	☒		1/30/2023 11:41
21	EQ2300031-01		20230130-022	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:47
22	EQ2300031-02		20230130-023	Perchlorate6850c.lcm	1x	☒		1/30/2023 11:52
23	EQ2300031-03		20230130-024	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:07
24	PERCHLORATE7		20230130-025	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 12:30
25	EQ2300031-04		20230130-026	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:36
26	EQ2300031-05		20230130-027	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:42
27	E2300079-001		20230130-028	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:48
28	E2300079-002		20230130-029	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:53
29	E2300079-003		20230130-030	Perchlorate6850c.lcm	1x	☒		1/30/2023 12:59
30	E2300079-004		20230130-031	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:05
31	E2300079-005		20230130-032	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:11
32	E2300079-006		20230130-033	Perchlorate6850c.lcm	1x	☒	DNU-CONFIRM PEAK	1/30/2023 13:16
33	E2300081-001		20230130-034	Perchlorate6850c.lcm	1x	☒	DNU-CONFIRM PEAK	1/30/2023 13:22
34	E2300081-002		20230130-035	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:28
35	PERCHLORATE7		20230130-036	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 13:34
36	E2300081-003		20230130-037	Perchlorate6850c.lcm	1x	☒		1/30/2023 13:40
37	E2300081-004		20230130-038	Perchlorate6850c.lcm	1x	☒	DNU-CONFIRM PEAK	1/30/2023 13:45
38	E2300079-006		20230130-039	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:06
39	E2300081-001		20230130-040	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:11
40	E2300082-001		20230130-041	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:17

20230130-792992

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 12/14/2022
Cal. Std. xp: 01/31/2023
ICAL ID: EC2200016

Mobile Phases : A:0.10% Formic Acid/Water 3210303-02 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
41	EQ2300031-06		20230130-042	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:23
42	EQ2300031-07		20230130-043	Perchlorate6850c.lcm	1x	☒	DNU-IR	1/30/2023 15:29
43	E2300082-002		20230130-044	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:34
44	E2300082-003		20230130-045	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:40
45	E2300082-004		20230130-046	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:46
46	PERCHLORATE7		20230130-047	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 15:52
47	EQ2300031-07		20230130-048	Perchlorate6850c.lcm	1x	☒		1/30/2023 15:58
48	E2300084-001		20230130-049	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:03
49	E2300084-002		20230130-050	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:09
50	E2300084-003		20230130-051	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:15
51	E2300084-004		20230130-052	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:21
52	R2300559-004		20230130-053	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:26
53	R2300559-009		20230130-054	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:32
54	E2300081-004		20230130-055	Perchlorate6850c.lcm	1x	☒		1/30/2023 16:38
55	PERCHLORATE7		20230130-056	Perchlorate6850c.lcm	1x	☒	226067	1/30/2023 17:01

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/27/23 12:30

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230127\20230127-035	**Lab Code:**	EQ2300038-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792859
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300038-01	172,432	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	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/27/23 13:40

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230127\20230127-046	**Lab Code:**	EQ2300038-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792859
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300038-02	183,149	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	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/27/23 14:43

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230127\20230127-056	**Lab Code:**	EQ2300038-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792859
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300038-03	192,322	3.45
Method Blank	EQ2300030-01	219,169	3.45
Lab Control Sample	EQ2300030-02	218,154	3.46
Duplicate Lab Control Sample	EQ2300030-03	215,469	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/27/23 16:03

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230127\20230127-067	**Lab Code:**	EQ2300038-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792859
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300038-04	164,585	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/27/23 17:02

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230127\20230127-077	**Lab Code:**	EQ2300038-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792859
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300038-05	161,420	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/30/23 09:38

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-004	**Lab Code:**	EQ2300043-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-01	197,571	3.46
16WW38-230120	E2300078-001	224,052	3.46
16WW38-230120-FD	E2300078-002	228,113	3.46
16WW37-230120	E2300078-003	194,442	3.46
16WW51-230120	E2300078-004	227,780	3.46
16RW12-2301-FD	E2300078-006	244,116	3.46
16WW22-230120	E2300078-007	244,518	3.46
16WW56-230120	E2300078-008	246,825	3.46
16RW12-230120	E2300078-005	234,934	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/30/23 11:02

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-015	**Lab Code:**	EQ2300043-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-02	174,063	3.46

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: HS23011165

Service Request: E2300078
Date Analyzed: 1/30/23 12:30

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20230130\20230130-025
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300043-03
Analysis Lot: 792992
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-03	194,356	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	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/30/23 13:34

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-036	**Lab Code:**	EQ2300043-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-04	196,716	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/30/23 15:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-047	**Lab Code:**	EQ2300043-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-05	180,587	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	**Service Request:**	E2300078
Project:	HS23011165	**Date Analyzed:**	1/30/23 17:01

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230130\20230130-056	**Lab Code:**	EQ2300043-06
Instrument ID:	E-LCMS-01	**Analysis Lot:**	792992
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	251,001	3.88
	Upper Limit ==>	376,502	5.88
	Lower Limit ==>	125,501	1.88
Associated Analyses			
Continuing Calibration Verification	EQ2300043-06	167,665	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: HS23011165

Service Request: E2300078
Date Analyzed: 1/27/23

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\20230127\20230127-035

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792859
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1567	0.1572	0.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/27/23

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\20230127\20230127-046

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792859
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.78	0.1567	0.1533	-2.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/27/23

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\20230127\20230127-056

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792859
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.71	0.1567	0.1521	-2.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/27/23

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\20230127\20230127-067

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792859
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.44	0.1567	0.1479	-5.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/27/23

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\20230127\20230127-077

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792859
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.52	0.1567	0.1493	-4.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/30/23

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\20230130\20230130-004

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1567	0.1655	5.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/30/23

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\20230130\20230130-015

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1567	0.1593	1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/30/23

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\20230130\20230130-025

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.84	0.1567	0.1540	-1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/30/23

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\20230130\20230130-036

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.94	0.1567	0.1554	-0.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/30/23

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\20230130\20230130-047

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1567	0.1592	1.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011165

Service Request: E2300078
Date Analyzed: 1/30/23

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\20230130\20230130-056

Calibration Date: 12/14/22
Calibration ID: EC2200016
Analysis Lot: 792992
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.92	0.1567	0.1551	-1.0	NA	± 15 %	Average RF

Insight Report

Printed at 1/31/2023 9:35:02 AM

Method File: I:\LCMS01\DATA\20230130\20230130.lcm
Project File: I:\LCMS01\DATA\20230130\20230130.damlp

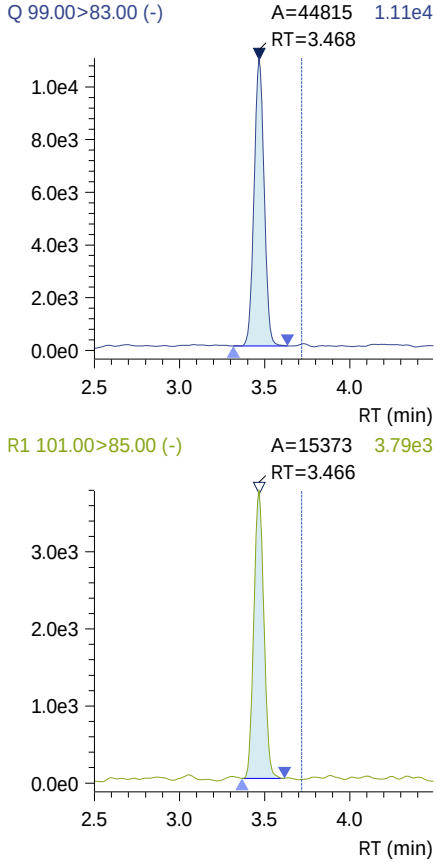
ICS

Sample ID: ICS
Date Acquired: 1/30/2023 9:14:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-002.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.468	44815	257791	1.1115	ng/mL	101.00 >85.00	34.30	22.32 -41.46
Sodium Perchlorate-18O4 _IS	Auto	3.464	257791	257791	1.0000	ng/mL	----	----	

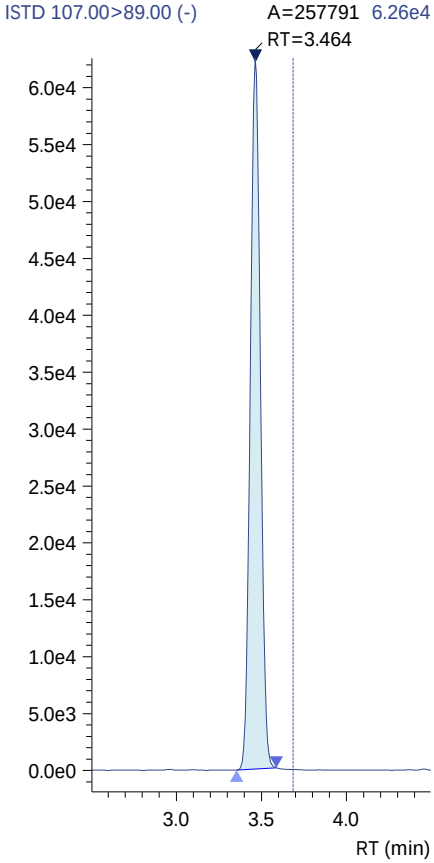
Perchlorate

Conc 1.1115
R#1 34.30 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

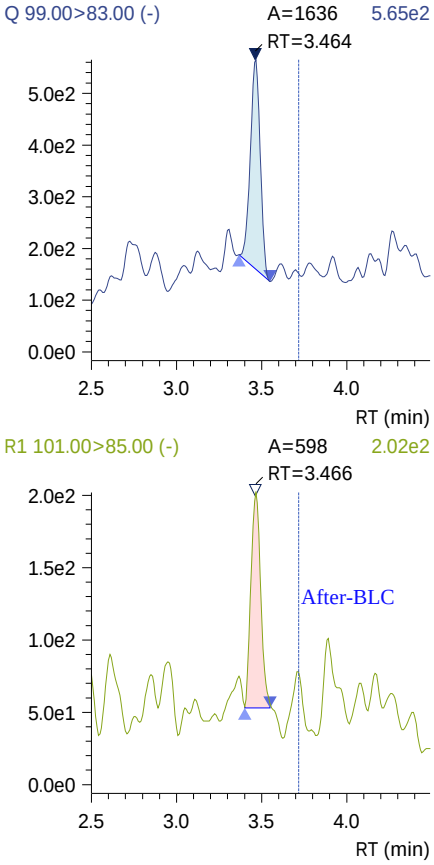
LODV

Sample ID: LODV
Date Acquired: 1/30/2023 9:31:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-003.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.464	1636	217222	0.0481	ng/mL	101.00 >85.00	36.56	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.461	2172 22	217222	1.0000	ng/mL	----	----	

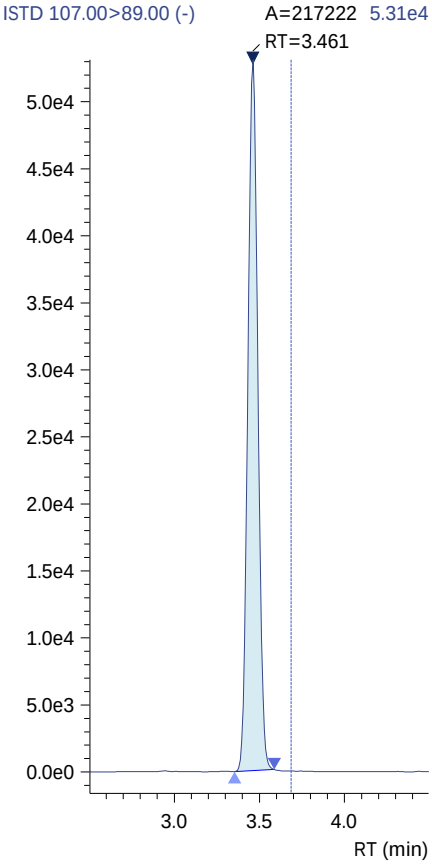
Perchlorate

Conc 0.0481
R#1 36.56 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

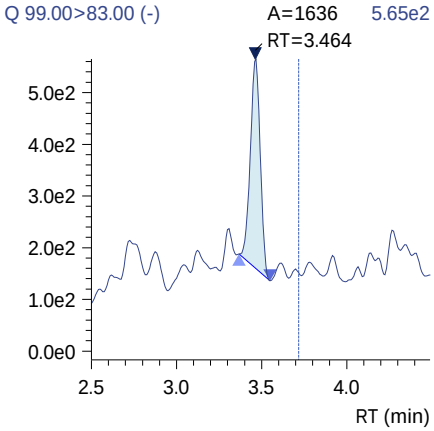
Method File: I:\LCMS01\DATA\20230130\20230130.lcm
Project File: I:\LCMS01\DATA\20230130\20230130.damlp

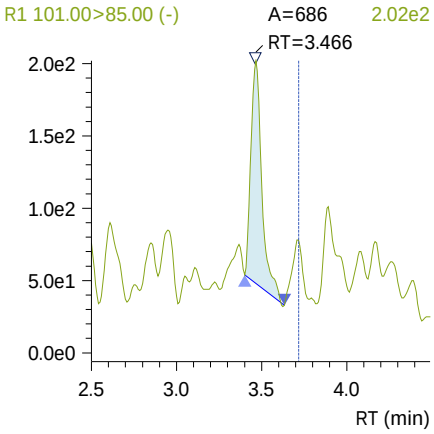
LODV

Sample ID: LODV
Date Acquired: 1/30/2023 9:31:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-003.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 0

Perchlorate

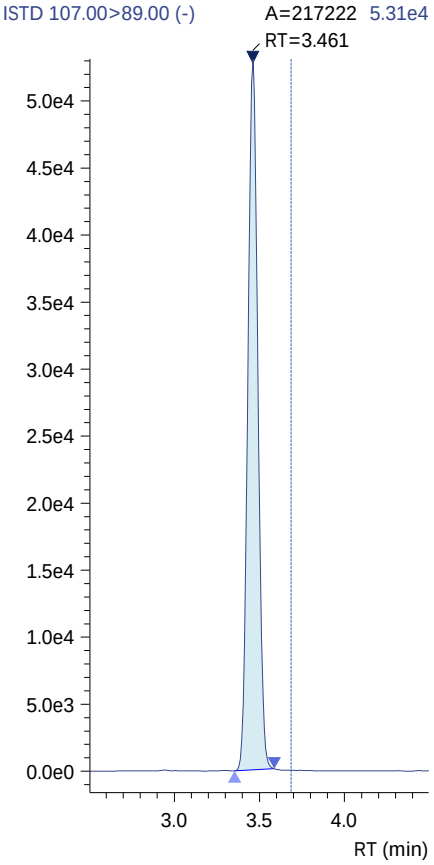
Conc 0.0480
R#1 41.93 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

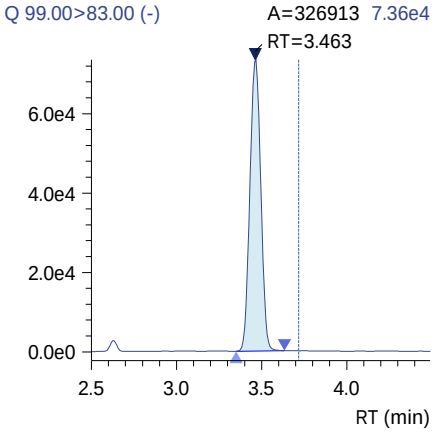
PERCHLORATE7

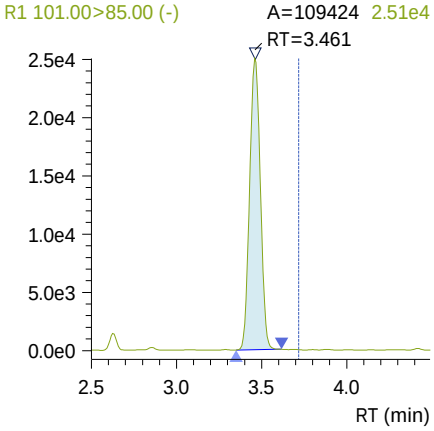
Sample ID: PERCHLORATE7
Date Acquired: 1/30/2023 9:38:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-004.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.463	3269 13	197571	10.5 797	ng/mL	101.00 >85.00	33.47	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.459	1975 71	197571	1.0000	ng/mL	----	----	

Perchlorate

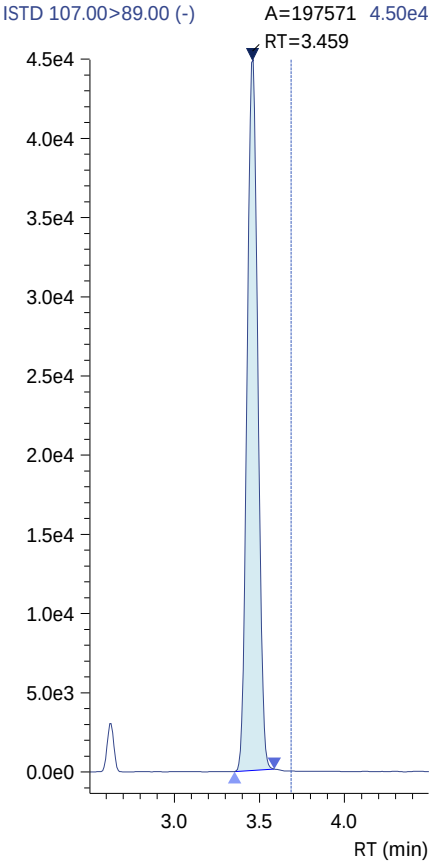
Conc 10.5797
R#1 33.47 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

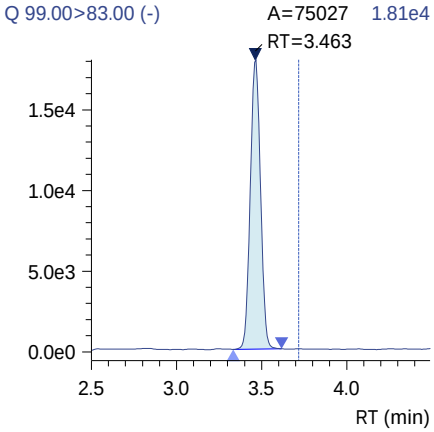
E2300078-001

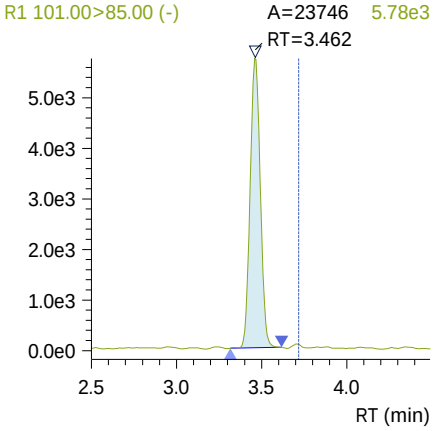
Sample ID: E2300078-001
Date Acquired: 1/30/2023 9:50:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-006.lcd
Vial: 39 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.463	75027	224052	2.1411	ng/mL	101.00 >85.00	31.65	22.32 -41.46
Sodium Perchlorate-18O4 _IS	Auto	3.460	224052	224052	1.0000	ng/mL	----	----	

Perchlorate

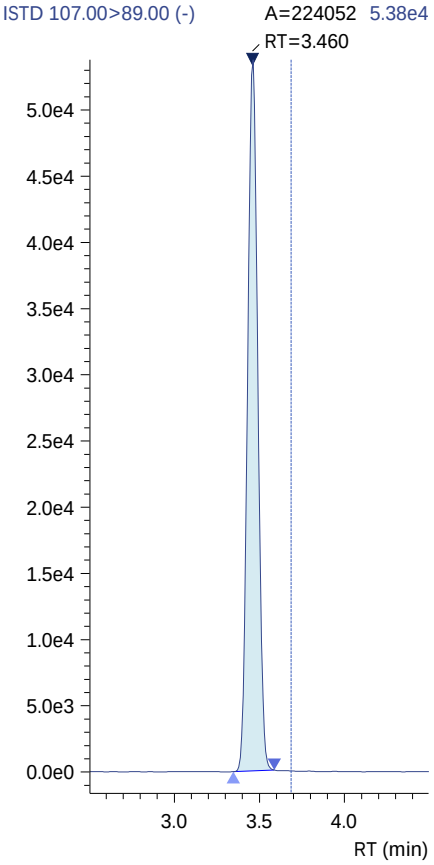
Conc 2.1411
R#1 31.65 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

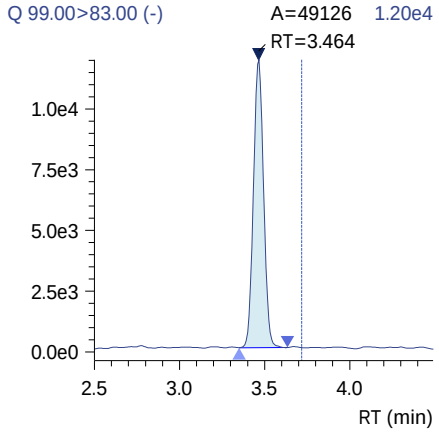
E2300078-002

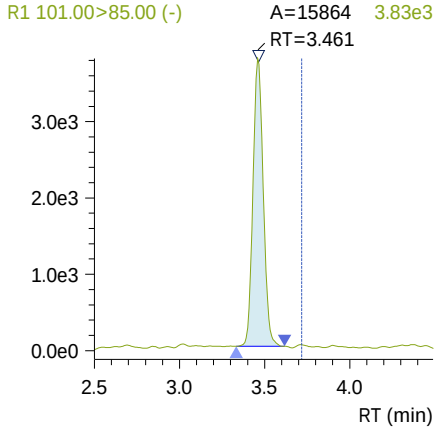
Sample ID: E2300078-002
Date Acquired: 1/30/2023 9:56:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-007.lcd
Vial: 40 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.464	49126	228113	1.3770	ng/mL	101.00 >85.00	32.29	22.32 -41.46
Sodium Perchlorate-18O4 _IS	Auto	3.461	2281 13	228113	1.0000	ng/mL	----	----	

Perchlorate

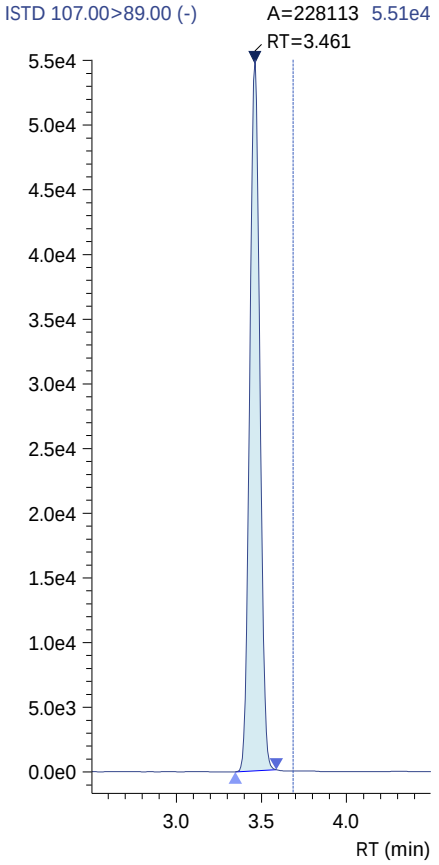
Conc 1.3770
R#1 32.29 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

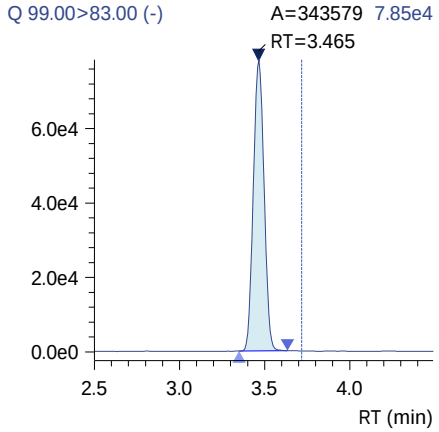
E2300078-003

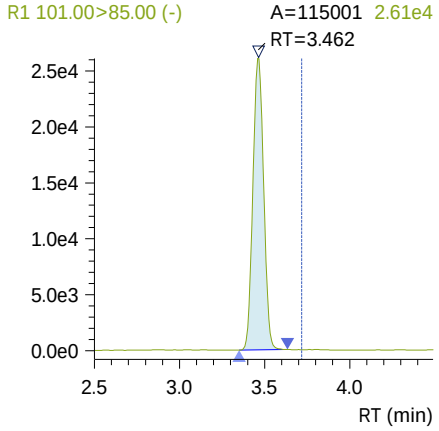
Sample ID: E2300078-003
Date Acquired: 1/30/2023 10:01:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-008.lcd
Vial: 41 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.465	3435 79	194442	11.2 979	ng/mL	101.00 >85.00	33.47	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.462	1944 42	194442	1.0000	ng/mL	----	----	

Perchlorate

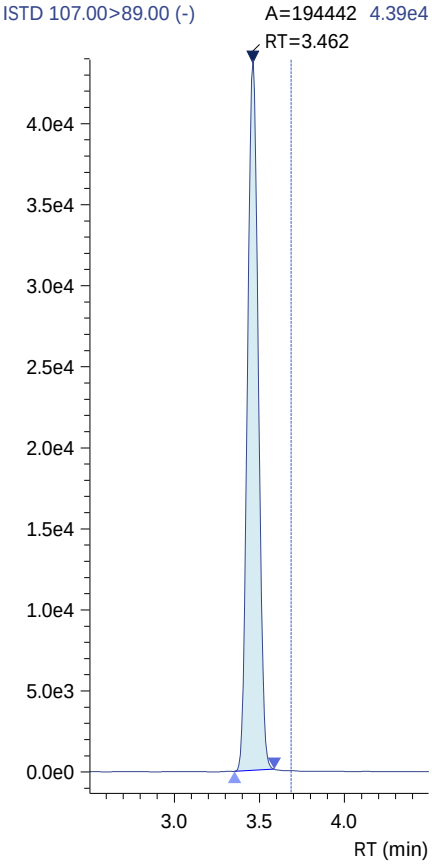
Conc 11.2979
R#1 33.47 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

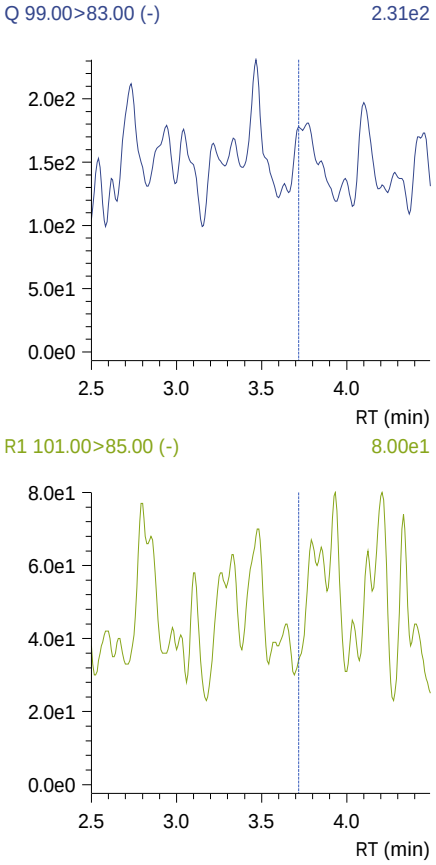
E2300078-004

Sample ID: E2300078-004
Date Acquired: 1/30/2023 10:07:32 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-009.lcd
Vial: 42 | Inj. Volume: 25.0000uL | 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)	----	----	227780	----	ng/mL	101.00 >85.00	0.00	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.463	227780	227780	1.0000	ng/mL	----	----	

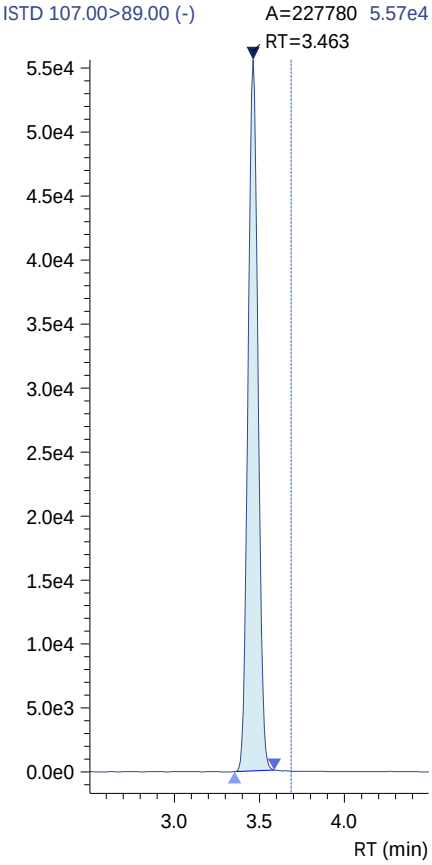
Perchlorate

Conc ----
R#1 0.00 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

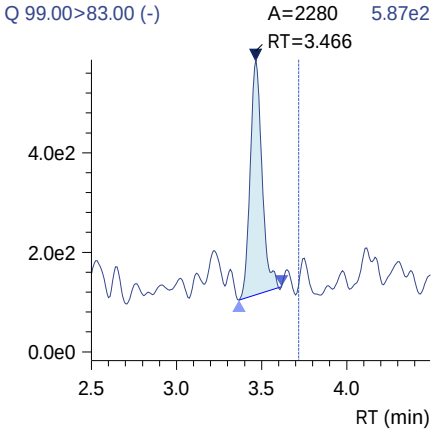
E2300078-006

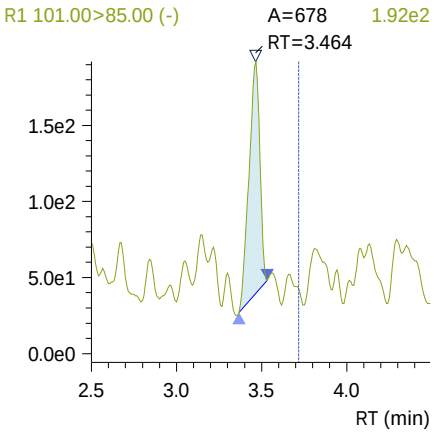
Sample ID: E2300078-006
Date Acquired: 1/30/2023 10:19:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-011.lcd
Vial: 44 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.466	2280	244116	0.0597	ng/mL	101.00 >85.00	29.73	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.462	2441 16	244116	1.0000	ng/mL	----	----	

Perchlorate

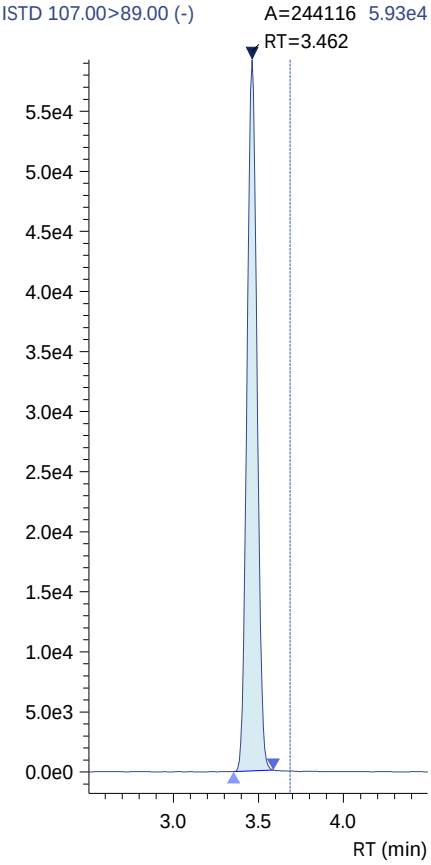
Conc 0.0597
R#1 29.73 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

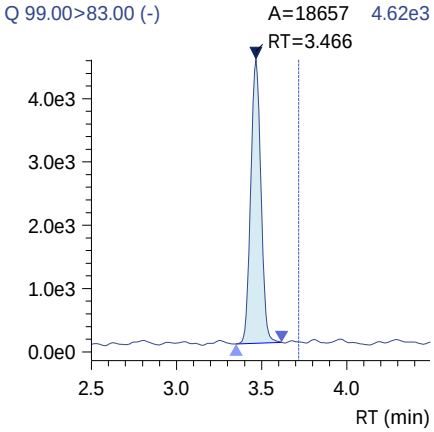
E2300078-007

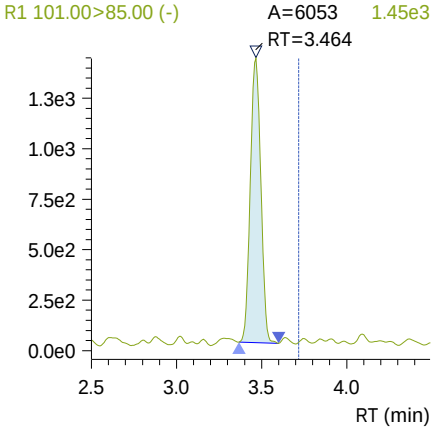
Sample ID: E2300078-007
Date Acquired: 1/30/2023 10:24:56 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-012.lcd
Vial: 45 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.466	18657	244518	0.4879	ng/mL	101.00 >85.00	32.44	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.463	244518	244518	1.0000	ng/mL	----	----	

Perchlorate

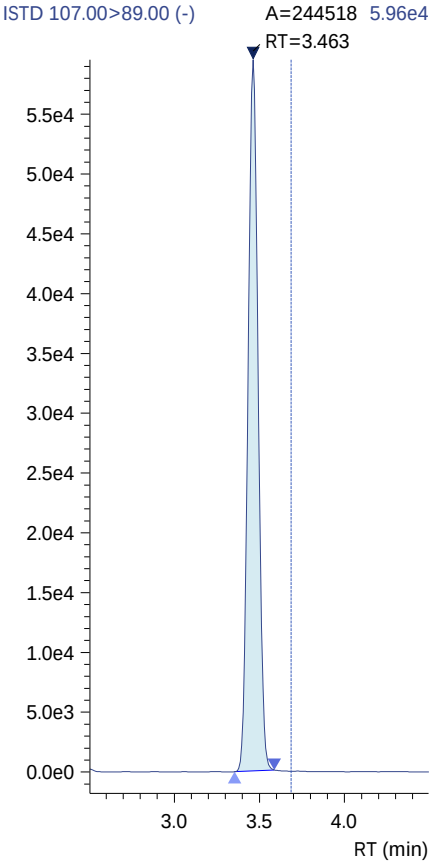
Conc 0.4879
R#1 32.44 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

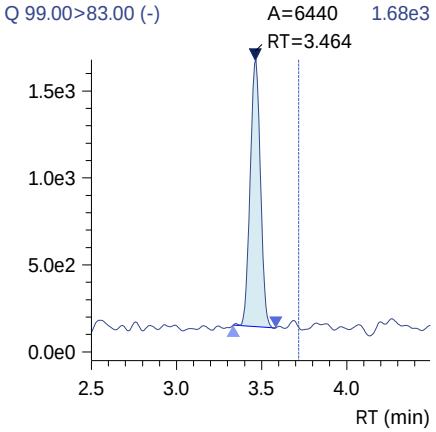
E2300078-008

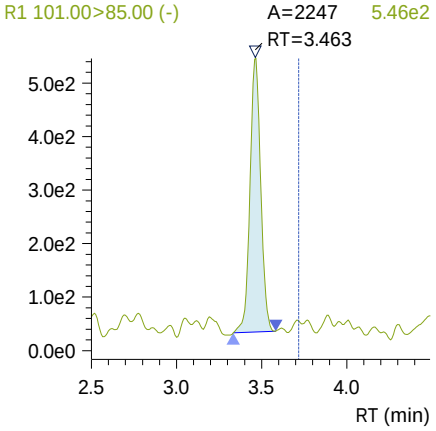
Sample ID: E2300078-008
Date Acquired: 1/30/2023 10:30:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-013.lcd
Vial: 46 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.464	6440	246825	0.1668	ng/mL	101.00 >85.00	34.89	22.32 -41.46
Sodium Perchlorate-18O4 _IS	Auto	3.461	2468 25	246825	1.0000	ng/mL	----	----	

Perchlorate

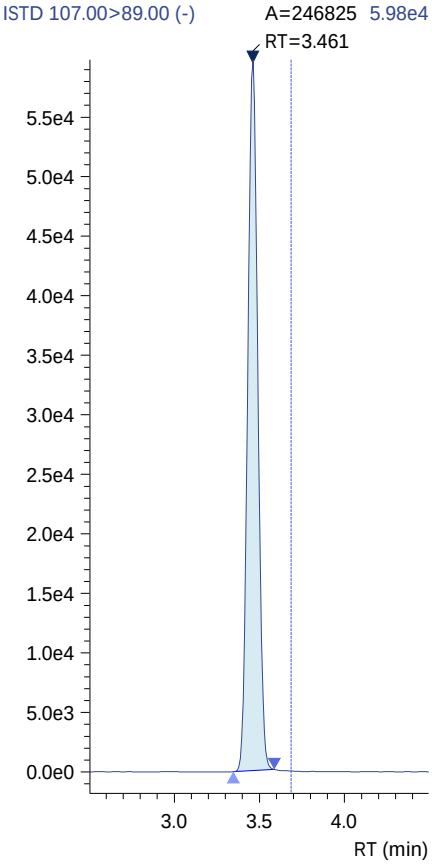
Conc 0.1668
R#1 34.89 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:35:02 AM

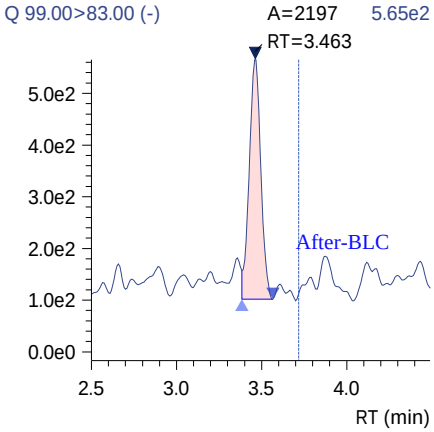
E2300078-005

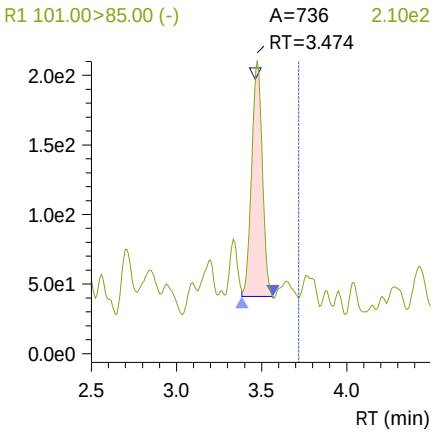
Sample ID: E2300078-005
Date Acquired: 1/30/2023 10:56:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-014.lcd
Vial: 43 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.463	2197	234934	0.0598	ng/mL	101.00 >85.00	33.51	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.457	234934	234934	1.0000	ng/mL	----	----	

Perchlorate

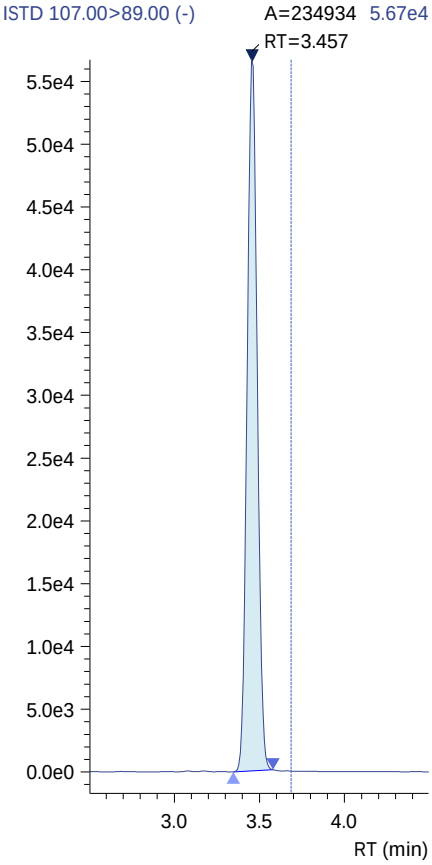
Conc 0.0598
R#1 33.51 (31.89)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 1/31/2023 9:37:55 AM

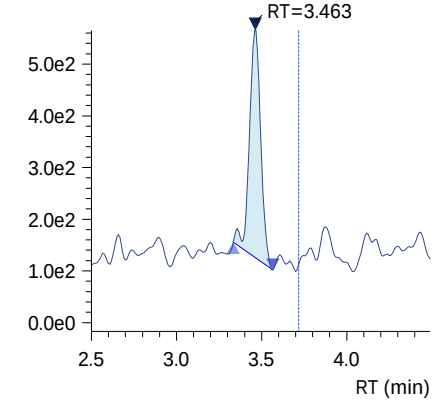
E2300078-005

Sample ID: E2300078-005
Date Acquired: 1/30/2023 10:56:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-014.lcd
Vial: 43 | Inj. Volume: 25.0000uL | Tray: 4

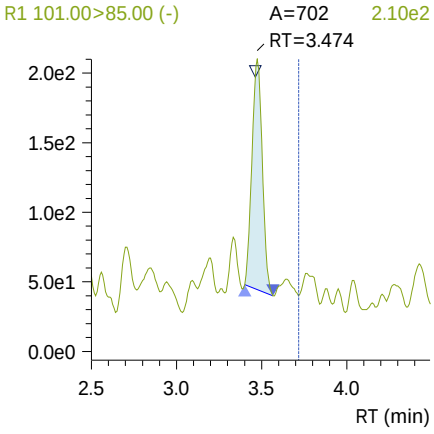
Perchlorate

Conc 0.0550
R#1 34.62 (31.89)

Q 99.00>83.00 (-) A=2027 5.65e2



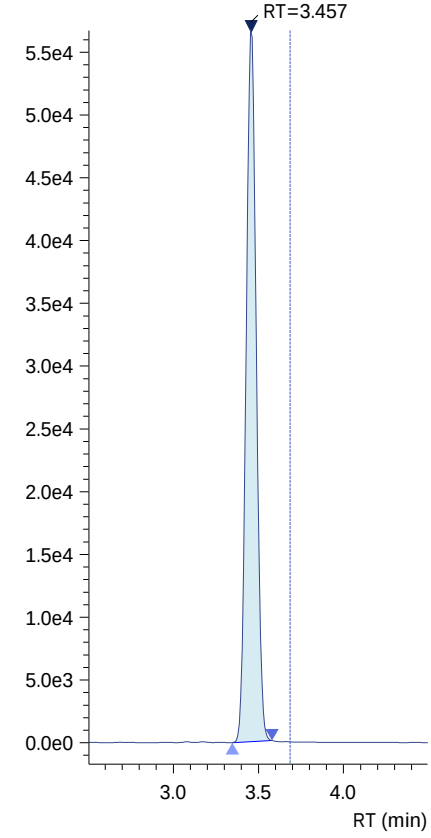
R1 101.00>85.00 (-) A=702 2.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=234934 5.67e4



Insight Report

Printed at 1/31/2023 9:35:02 AM

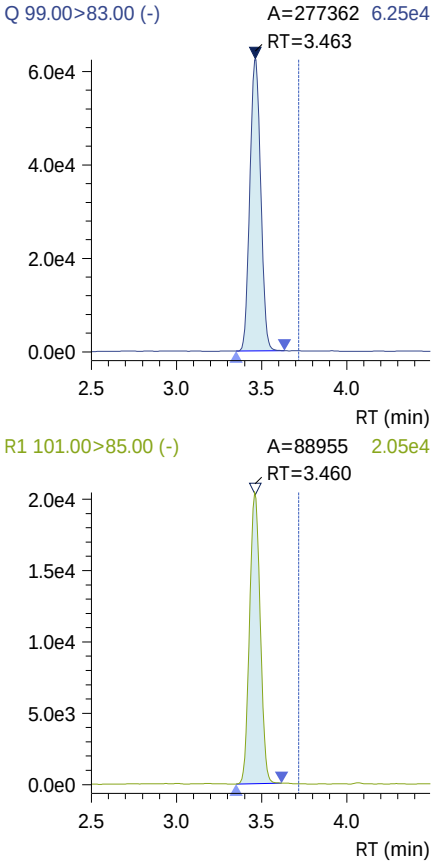
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 1/30/2023 11:02:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230130\20230130-015.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.463	2773 62	174063	10.1 883	ng/mL	101.00 >85.00	32.07	22.32 -41.46
Sodium Perchlorate-18O4_IS	Auto	3.458	1740 63	174063	1.0000	ng/mL	----	----	

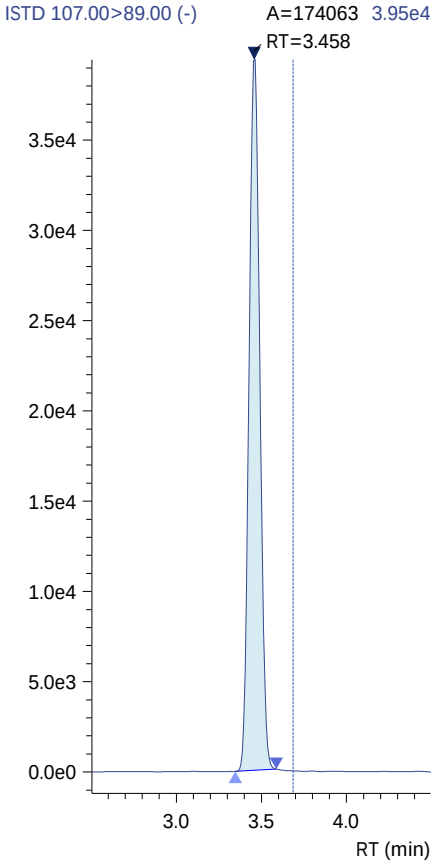
Perchlorate

Conc 10.1883
R#1 32.07 (31.89)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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

WorkOrder: HS23011272

LHAAP 16 January 2023

Aptim Environmental & Infrastucture, Inc.

Vicki Graves
10333 Richmond Ave Ste 1030
Houston TX 77042

14-Feb-2023

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
F : +1 281 530 5887
www.alsglobal.com

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  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList
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Form 7 - ICPMS06_427488 LCS
Form 8 - ICPMS06_427488 SD

HS23011272 LHAAP 16 January 2023 Final

ALS WO# HS23011272

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

February 08, 2023

Vicki Graves
Aptim Environmental & Infrastucture, Inc.
10333 Richmond Ave
Ste 1030
Houston, TX 77042

Work Order: **HS23011272**

Laboratory Results for: **LHAAP 16 January 2023**

Dear Vicki Graves ,

ALS Environmental received 1 sample(s) on Jan 24, 2023 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

ALS Houston, US Date: 08-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Work Order: HS23011272

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23011272-01	16WW24-230121	Groundwater		21-Jan-2023 12:40	24-Jan-2023 09:50	☐

ALS Houston, US Date: 08-Feb-23

Client: Aptim Environmental & Infrastucture, Inc. **CASE NARRATIVE**
Project: LHAAP 16 January 2023
Work Order: HS23011272

Metals by Method SW6020A

Batch ID: 189410

Sample ID: 16WW24-230121 (HS23011272-01MS)

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

ALS Houston, US

Date: 08-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.

ANALYTICAL REPORT

Project: LHAAP 16 January 2023

WorkOrder:HS23011272

Sample ID: 16WW24-230121

Lab ID:HS23011272-01

Collection Date: 21-Jan-2023 12:40

Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 07-Feb-2023		Analyst: JC
Manganese	**6.20**		**0.0140**	**0.0500**	**0.100**	**mg/L**	20	07-Feb-2023 16:42

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

Weight / Prep Log

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Batch ID: 189410 **Start Date:** 07 Feb 2023 08:30 **End Date:** 07 Feb 2023 12:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23011272-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 08-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 189410 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS23011272-01	16WW24-230121	21 Jan 2023 12:40		07 Feb 2023 08:30	07 Feb 2023 16:42	20

ALS Houston, US Date: 08-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

QC BATCH REPORT

Batch ID: 189410 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-189410** Units: **mg/L** Analysis Date: **07-Feb-2023 16:07**
Client ID: Run ID: **ICPMS06_427488** SeqNo: **7112506** PrepDate: **07-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.00250	0.00500								U

LCS Sample ID: **LCS-189410** Units: **mg/L** Analysis Date: **07-Feb-2023 16:09**
Client ID: Run ID: **ICPMS06_427488** SeqNo: **7112507** PrepDate: **07-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.05216	0.00500	0.05	0	104	87 - 115				

MS Sample ID: **HS23011272-01MS** Units: **mg/L** Analysis Date: **07-Feb-2023 16:15**
Client ID: **16WW24-230121** Run ID: **ICPMS06_427488** SeqNo: **7112510** PrepDate: **07-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	6.094	0.00500	0.05	6.087	13.9	87 - 115				SEO

MSD Sample ID: **HS23011272-01MSD** Units: **mg/L** Analysis Date: **07-Feb-2023 16:17**
Client ID: **16WW24-230121** Run ID: **ICPMS06_427488** SeqNo: **7112511** PrepDate: **07-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	5.899	0.00500	0.05	6.087	-377	87 - 115	6.094	3.26	20	SEO

PDS Sample ID: **HS23011272-01PDS** Units: **mg/L** Analysis Date: **07-Feb-2023 16:46**
Client ID: **16WW24-230121** Run ID: **ICPMS06_427488** SeqNo: **7112533** PrepDate: **07-Feb-2023** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	8.213	0.100	2	6.201	101	80 - 120				

SD Sample ID: **HS23011272-01SD** Units: **mg/L** Analysis Date: **07-Feb-2023 16:44**
Client ID: **16WW24-230121** Run ID: **ICPMS06_427488** SeqNo: **7112532** PrepDate: **07-Feb-2023** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Manganese	6.395	0.500					6.201	3.14	10	

The following samples were analyzed in this batch: HS23011272-01

ALS Houston, US Date: 08-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: **HS23011272**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 08-Feb-23

Sample Receipt Checklist

Work Order ID: HS23011272 **Date/Time Received:** 24-Jan-2023 09:50

Client Name: CBI-Houston **Received by:** Corey Grandits

Completed By:	/S/ Corey Grandits	26-Jan-2023 15:02	**Reviewed by:**	/S/ Dane J. Wacasey	07-Feb-2023 17:25
	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 ☐	1 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):	3.0UC/2.5C	IR31
Cooler(s)/Kit(s):	Md Red	
Date/Time sample(s) sent to storage:	1/26/23	

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:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 575-2190 ATTN: Dane Wacasey

Project: APTIM
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. 501032

Job: **LHAAP 16 January 2023**

Prepared By: Scott Beesinger

P.O. Number

HS23011272

Aptim Environmental & Infrastucture, Inc.
LHAAP 16 January 2023

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: VOC by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions sulfate and nitrate by SW9056	CO2 by RSK 175	Perchlorate by SW 6850	Manganese by SW6020A	Remarks (Preservation etc.)
16WW24-230122	WG	1/21/23 1240		1							X	
16WW24-230121-MS	WG	1/21/23 1240		1							X	
16WW24-230121-MSD	WG	1/21/23 1240		1							X	

Additional Remarks: **Standard TAT on all parameters. Please email results to Vicki.Graves@aptim.com and invoices to fedinvoices@aptim.com**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	1/23/23	1430									

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
INDEY G	1-24-23	0750							

Remarks:

1234 MI RED

3.0°

(Word) S:\I-ces\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date:
Name:
Company:
CUSTODY SEAL
Time:
Seal Broken By:
Date:
REF: LHAAP 16 – BO 85837 – DW
RMA:
FedEx
Express
PRIORITY OVERNIGHT

HS23011272 - ME - ICP_W_DOD

ALS WO# HS23011272

ALS Houston, US

Date: 13-Feb-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Aptim Environmental & Infrastucture, Inc.

Project: LHAAP 16 January 2023

WorkOrder: HS23011272

Instrument:ICPMS06

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US Date: 13-Feb-23

FORM 13 - ANALYSIS RUN LOG

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272
Start Date: 07-Feb-2023 End Date: 07-Feb-2023

Run ID:ICPMS06_427488
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_427488_Tune	1	07-Feb-2023 00:00	ICPMS06_427488_Tune_1	
CAL BLK	1	07-Feb-2023 11:26	021CALB.d_7112448	MN
2/10/200	1	07-Feb-2023 11:28	022CALS.d_7112449	MN
5/25/500	1	07-Feb-2023 11:30	023CALS.d_7112450	MN
10/50/100	1	07-Feb-2023 11:32	024CALS.d_7112451	MN
100/500/10K	1	07-Feb-2023 11:34	025CALS.d_7112452	MN
200/1000/20K	1	07-Feb-2023 11:35	026CALS.d_7112453	MN
ICV	1	07-Feb-2023 11:40	028_ICV.d_7112455	MN
LLICV2	1	07-Feb-2023 11:42	029LCV2.d_7112456	MN
LLICV5	1	07-Feb-2023 11:44	030LCV5.d_7112457	MN
ICB	1	07-Feb-2023 11:46	031_ICB.d_7112458	MN
ICSA	1	07-Feb-2023 11:50	033ICSA.d_7112460	MN
ICSAB	1	07-Feb-2023 11:52	034ICSB.d_7112461	MN
MBLK-189410	1	07-Feb-2023 16:07	153SMPL.d_7112506	MN
LCS-189410	1	07-Feb-2023 16:09	154SMPL.d_7112507	MN
16WW24-230121SD	5	07-Feb-2023 16:13	156SMPL.d_7112509	
16WW24-230121MS	1	07-Feb-2023 16:15	157SMPL.d_7112510	MN
16WW24-230121MSD	1	07-Feb-2023 16:17	158SMPL.d_7112511	MN
16WW24-230121PDS	1	07-Feb-2023 16:19	159SMPL.d_7112512	
CCV 1	1	07-Feb-2023 16:27	163_CCV.d_7112524	MN
CCB 1	1	07-Feb-2023 16:29	164_CCB.d_7112525	MN
16WW24-230121	20	07-Feb-2023 16:42	170SMPL.d_7112531	MN
16WW24-230121SD	100	07-Feb-2023 16:44	171SMPL.d_7112532	MN
16WW24-230121PDS	20	07-Feb-2023 16:46	172SMPL.d_7112533	MN
CCV 2	1	07-Feb-2023 16:48	173_CCV.d_7112534	MN
CCB 2	1	07-Feb-2023 16:50	174_CCB.d_7112535	MN
CAL BLK	1	07-Feb-2023 17:08	183CALB.d_7112807	MN
2/10/200	1	07-Feb-2023 17:10	184CALS.d_7112808	MN
5/25/500	1	07-Feb-2023 17:12	185CALS.d_7112809	MN
10/50/100	1	07-Feb-2023 17:14	186CALS.d_7112810	MN
100/500/10K	1	07-Feb-2023 17:16	187CALS.d_7112811	MN
200/1000/20K	1	07-Feb-2023 17:18	188CALS.d_7112812	MN
ICCV 3	1	07-Feb-2023 17:22	190_ICV.d_7112814	MN
LLCCV2	1	07-Feb-2023 17:24	191LCV2.d_7112815	MN
LLCCV5	1	07-Feb-2023 17:26	192LCV5.d_7112816	MN
ICCB 3	1	07-Feb-2023 17:28	193_ICB.d_7112817	MN
ICSA	1	07-Feb-2023 17:30	194ICSA.d_7112818	MN
ICSAB	1	07-Feb-2023 17:32	195ICSB.d_7112819	MN
CCV 4	1	07-Feb-2023 18:40	228_CCV.d_7112822	MN
CCB 4	1	07-Feb-2023 18:42	229_CCB.d_7112823	MN
CCV 5	1	07-Feb-2023 19:04	240_CCV.d_7112834	MN
CCB 5	1	07-Feb-2023 19:06	241_CCB.d_7112835	MN
CCV 6	1	07-Feb-2023 19:29	252_CCV.d_7112846	MN
CCB 6	1	07-Feb-2023 19:31	253_CCB.d_7112847	MN
CCV 7	1	07-Feb-2023 19:54	264_CCV.d_7112865	MN
CCB 7	1	07-Feb-2023 19:56	265_CCB.d_7112866	MN

ALS Houston, US

Date: 13-Feb-23

Form 2 - Initial and Continuing Calibration Verification

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Run ID: ICPMS06_427488
Instrument: ICPMS06
Method: SW6020A

ICV	Date: 07-Feb-2023 11:40		Seq: 7112455	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	102.05	102	90-110	

CCV1	Date: 07-Feb-2023 16:27		Seq: 7112524	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	100.394	100	90-110	

CCV2	Date: 07-Feb-2023 16:48		Seq: 7112534	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	97.807	98	90-110	

ICCV3	Date: 07-Feb-2023 17:22		Seq: 7112814	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	103.034	103	90-110	

CCV4	Date: 07-Feb-2023 18:40		Seq: 7112822	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	98.965	99	90-110	

CCV5	Date: 07-Feb-2023 19:04		Seq: 7112834	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	100.358	100	90-110	

CCV6	Date: 07-Feb-2023 19:29		Seq: 7112846	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	100.439	100	90-110	

CCV7	Date: 07-Feb-2023 19:54		Seq: 7112865	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	103.416	103	90-110	

ALS Houston, US Date: 13-Feb-23

Form 3 - BLANKS

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Run ID: ICPMS06_427488
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 07-Feb-2023 11:46		Seq: 7112458	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
MBLK-189410	Date: 07-Feb-2023 16:07		Seq: 7112506	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
CCB1	Date: 07-Feb-2023 16:29		Seq: 7112525	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
CCB2	Date: 07-Feb-2023 16:50		Seq: 7112535	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
ICCB3	Date: 07-Feb-2023 17:28		Seq: 7112817	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
CCB4	Date: 07-Feb-2023 18:42		Seq: 7112823	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
CCB5	Date: 07-Feb-2023 19:06		Seq: 7112835	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
CCB6	Date: 07-Feb-2023 19:31		Seq: 7112847	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	
CCB7	Date: 07-Feb-2023 19:56		Seq: 7112866	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	

ALS Houston, US Date: 13-Feb-23

Form 4 - ICP Interference Check Sample

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Run ID: ICPMS06_427488
Instrument: ICPMS06
Method: SW6020A

ICSA	Date: 07-Feb-2023 11:50	Seq: 7112460	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Manganese		1.653	0	

ICSAB	Date: 07-Feb-2023 11:52	Seq: 7112461	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Manganese	100	102.8	103	

ICSA	Date: 07-Feb-2023 17:30	Seq: 7112818	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Manganese		1.714	0	

ICSAB	Date: 07-Feb-2023 17:32	Seq: 7112819	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Manganese	100	98.74	98.7	

ALS Houston, US

Date: 13-Feb-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Date Analyzed: 07-Feb-2023 16:17
Date Extracted: 07-Feb-2023 08:30
Units: ug/L

Matrix Spike: HS23011272-01MS
Client Sample ID: 16WW24-230121

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Manganese	6087	6094	50.00	13.9	5899	50.00	-377	87-115	3.26	20

ALS Houston, US

Date: 13-Feb-23

Form 5B - Post Digest Sample Recovery

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Date Analyzed: 07-Feb-2023 16:46
Date Extracted: 07-Feb-2023 08:30
Units: ug/L

Lab Sample ID: HS23011272-01PDS
Client Sample ID: 16WW24-230121

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Manganese	6201	8213	2000	101	80-120

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Date: 13-Feb-23

Form 7 - Laboratory Control Sample

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Date Analyzed: 07-Feb-2023 16:09
Date Extracted: 07-Feb-2023 08:30
Units: ug/L

Lab Sample ID: LCS-189410
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Manganese	50	52.16	104	87-115

ALS Houston, US

Date: 13-Feb-23

Form 8 - ICP Serial Dilutions

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011272

Date Analyzed: 07-Feb-2023 16:44
Date Extracted: 07-Feb-2023 08:30
Units: ug/L

Lab Sample ID: HS23011272-01SD
Client Sample ID:16WW24-230121

Analysis Method: SW6020A

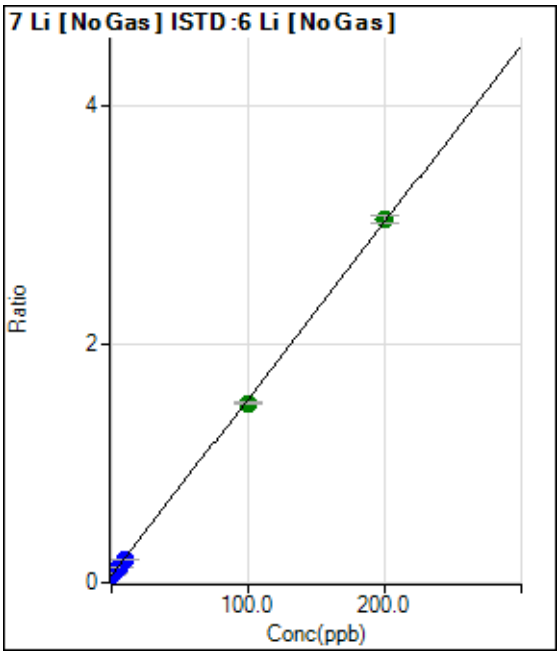
Analyte	Sample Result	C	SD Result	C	RPD	Q
Manganese	6201		6395		3	

Calibration for 358_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\020723A.b\
Analysis File: 020723A.batch.bin
DA Date-Time: 2/7/2023 11:28:27 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	343CALB.d	CAL BLK	2/7/2023 10:47:44 PM
2	344CALS.d	2/10/200	2/7/2023 10:49:43 PM
3	345CALS.d	5/25/500	2/7/2023 10:51:43 PM
4	346CALS.d	10/50/100	2/7/2023 10:53:41 PM
5	355CALS.d	100/500/10K	2/7/2023 11:21:53 PM
6	356CALS.d	200/1000/20K	2/7/2023 11:23:48 PM

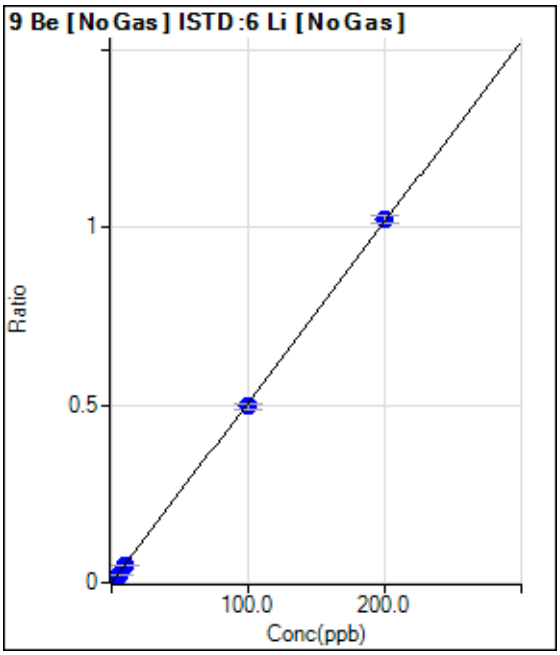
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32074.96	0.0600	P	0.2
2	☐	2.000	1.866	46874.57	0.0877	P	0.8
3	☐	5.000	4.617	68507.48	0.1284	P	2.3
4	☐	10.000	9.428	106675.16	0.1997	P	0.7
5	☐	100.000	97.556	793545.30	1.5059	A	1.4
6	☐	200.000	201.262	1548349.40	3.0430	A	2.0

y = 0.0148 * x + 0.0600
R = 0.9999
DL = 0.02713
BEC = 4.049

Weight: <None>
Min Conc: <None>

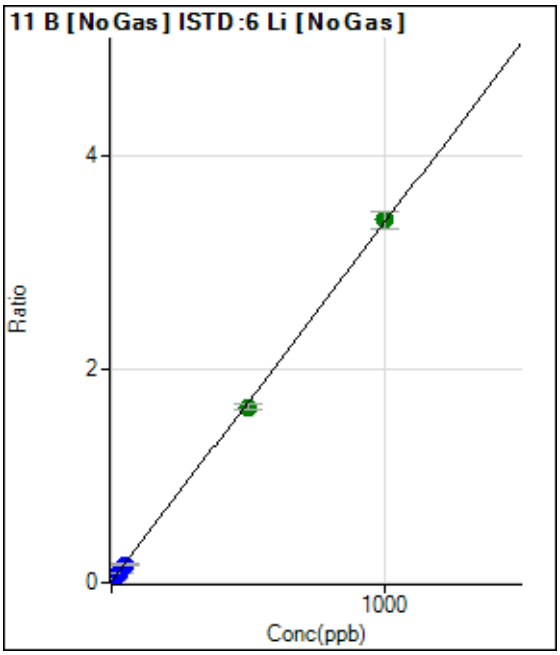


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.33	0.0001	P	33.7
2	☐	2.000	1.796	4917.57	0.0092	P	3.9
3	☐	5.000	4.589	12458.95	0.0234	P	2.7
4	☐	10.000	9.357	25387.99	0.0475	P	1.4
5	☐	100.000	97.639	260933.71	0.4952	P	2.5
6	☐	200.000	201.225	519206.83	1.0205	P	2.1

y = 0.0051 * x + 9.0574E-005
R = 0.9999
DL = 0.01805
BEC = 0.01786

Weight: <None>
Min Conc: <None>

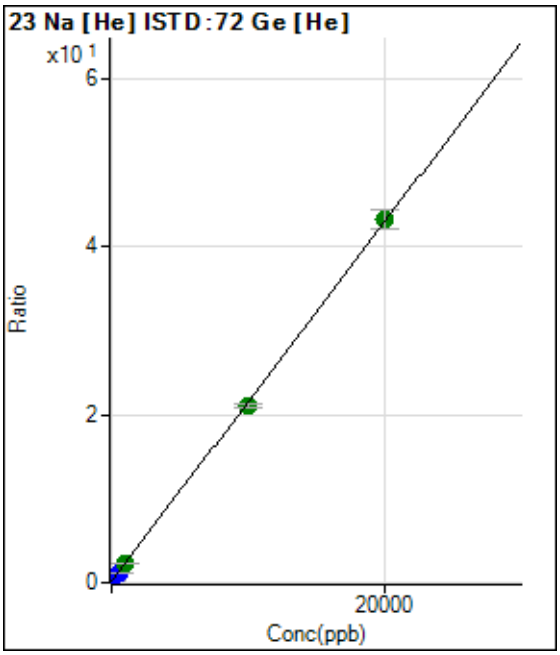
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6689.98	0.0125	P	2.5
2	☐	10.000	9.143	23142.50	0.0433	P	2.8
3	☐	25.000	22.784	47556.95	0.0892	P	3.7
4	☐	50.000	46.532	90286.90	0.1691	P	3.0
5	☐	500.000	485.357	867047.49	1.6456	A	3.4
6	☐	1000.000	1007.559	1730686.33	3.4026	A	4.8

y = 0.0034 * x + 0.0125
R = 0.9999
DL = 0.2781
BEC = 3.721

Weight: <None>
Min Conc: <None>

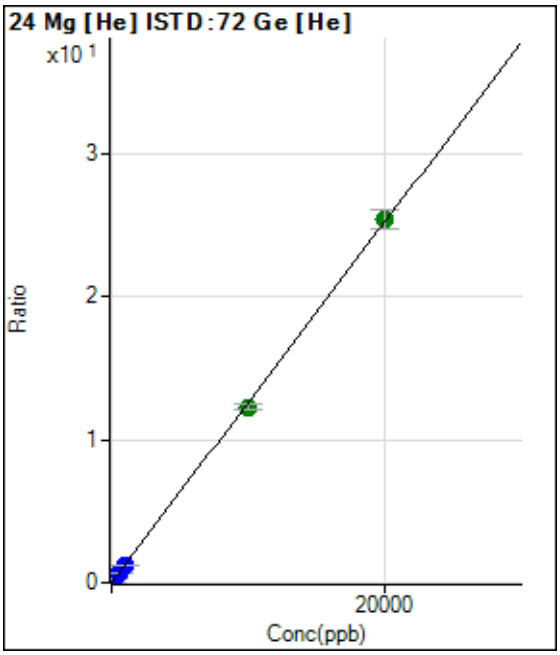


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78305.70	0.1621	P	0.3
2	☐	200.000	200.712	282751.53	0.5908	P	1.5
3	☐	500.000	486.288	580620.78	1.2007	P	1.7
4	☐	1000.000	997.798	1102667.46	2.2932	A	0.7
5	☐	10000.000	9750.037	10246112.56	20.9856	A	2.1
6	☐	20000.000	20125.427	20130503.87	43.1447	A	5.3

y = 0.0021 * x + 0.1621
R = 0.9999
DL = 0.6588
BEC = 75.92

Weight: <None>
Min Conc: <None>

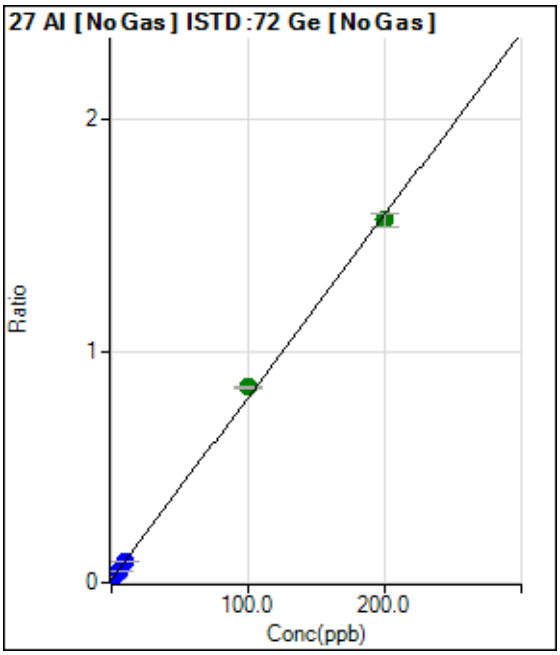
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1573.45	0.0033	P	8.1
2	☐	200.000	198.900	121635.07	0.2542	P	1.8
3	☐	500.000	489.737	300283.08	0.6210	P	1.3
4	☐	1000.000	1003.805	610363.69	1.2695	P	1.4
5	☐	10000.000	9726.869	5992153.87	12.2732	A	3.3
6	☐	20000.000	20136.643	11853338.16	25.4046	A	5.2

y = 0.0013 * x + 0.0033
R = 0.9999
DL = 0.629
BEC = 2.583

Weight: <None>
Min Conc: <None>

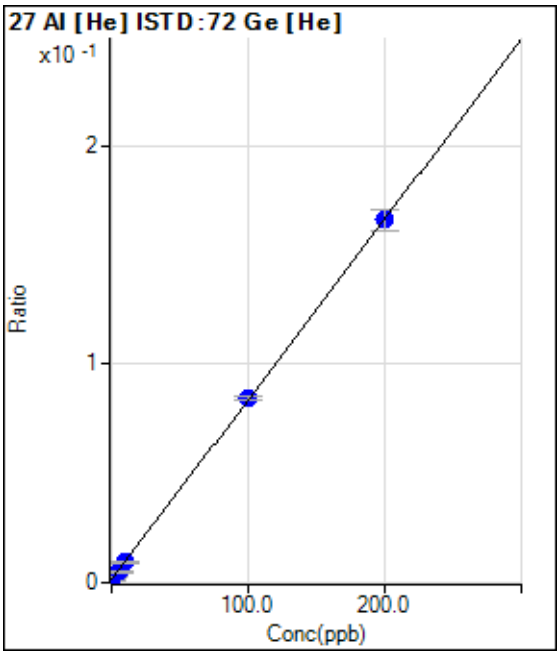


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17718.75	0.0138	P	5.6
2	☐	2.000	1.924	36618.67	0.0290	P	2.2
3	☐	5.000	4.868	66182.12	0.0522	P	1.2
4	☐	10.000	9.591	115631.06	0.0894	P	2.3
5	☐	100.000	105.437	1056028.37	0.8444	A	1.6
6	☐	200.000	197.306	1975271.95	1.5681	A	3.5

y = 0.0079 * x + 0.0138
R = 0.9995
DL = 0.2971
BEC = 1.757

Weight: <None>
Min Conc: <None>

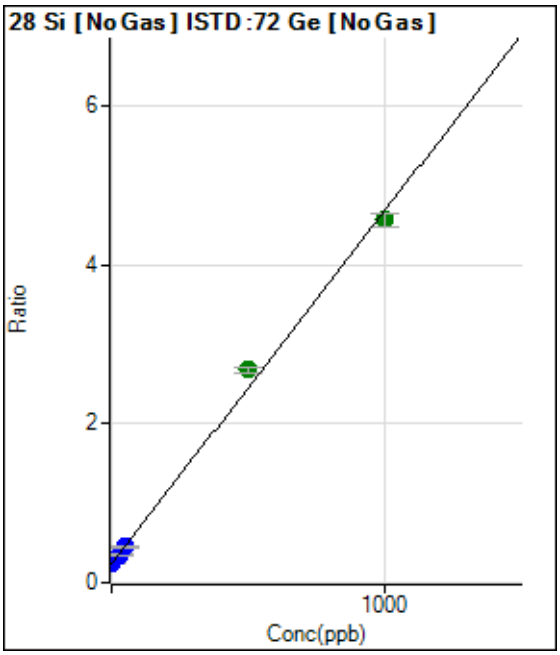
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	650.03	0.0013	P	4.2
2	☐	2.000	2.149	1493.45	0.0031	P	8.2
3	☐	5.000	4.302	2366.92	0.0049	P	9.8
4	☐	10.000	9.793	4534.17	0.0094	P	4.1
5	☐	100.000	100.592	41194.94	0.0844	P	2.0
6	☐	200.000	199.730	77536.21	0.1662	P	6.0

y = 8.2538E-004 * x + 0.0013
R = 1.0000
DL = 0.2062
BEC = 1.631

Weight: <None>
Min Conc: <None>

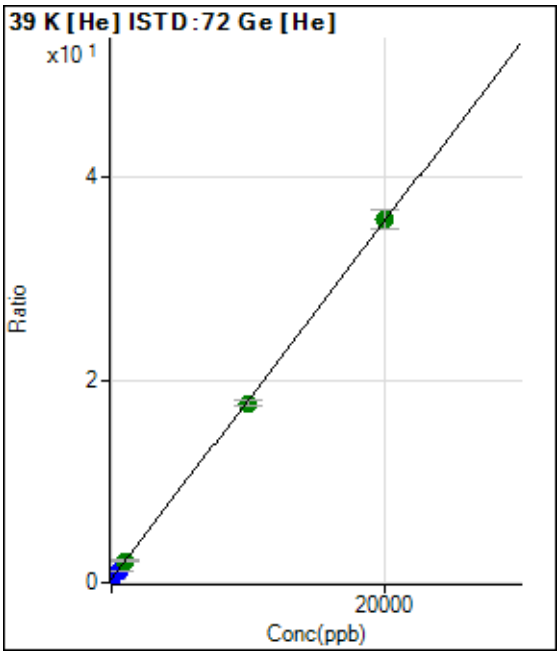


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	301892.44	0.2362	P	3.2
2	☐	10.000	9.932	353956.65	0.2803	P	0.8
3	☐	25.000	25.350	442415.93	0.3489	P	2.4
4	☐	50.000	48.745	585832.49	0.4530	P	3.2
5	☐	500.000	549.809	3353198.28	2.6816	A	2.4
6	☐	1000.000	975.150	5761045.96	4.5735	A	3.4

y = 0.0044 * x + 0.2362
R = 0.9982
DL = 5.048
BEC = 53.1

Weight: <None>
Min Conc: <None>

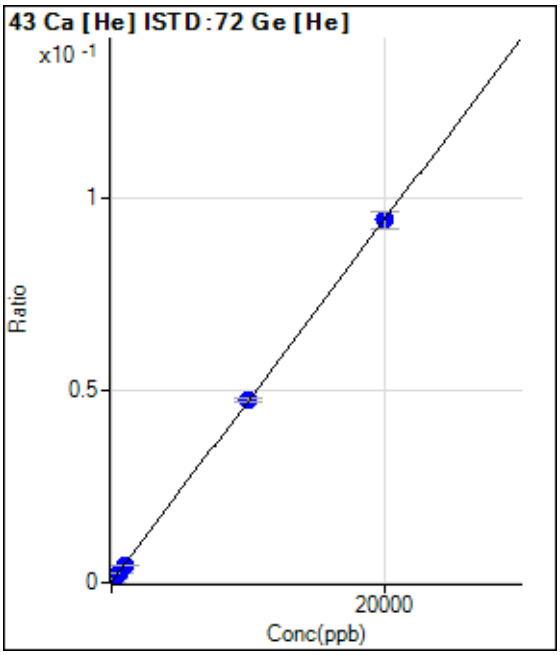
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	178585.78	0.3698	P	0.8
2	☐	200.000	199.872	345630.84	0.7221	P	1.0
3	☐	500.000	480.228	588127.74	1.2164	P	1.7
4	☐	1000.000	1014.567	1037544.83	2.1584	A	3.3
5	☐	10000.000	9842.937	8652592.37	17.7224	A	2.5
6	☐	20000.000	20078.299	16688773.50	35.7667	A	5.1

y = 0.0018 * x + 0.3698
R = 1.0000
DL = 4.758
BEC = 209.8

Weight: <None>
Min Conc: <None>

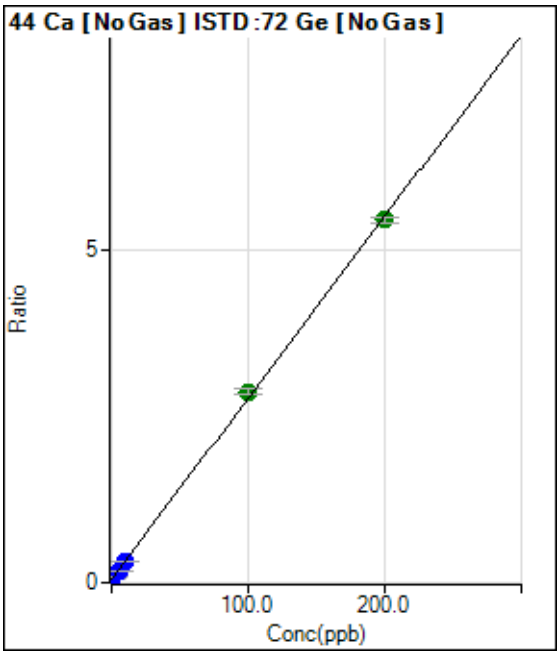


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	16.6
2	☐	200.000	169.003	440.01	0.0009	P	25.2
3	☐	500.000	503.944	1210.08	0.0025	P	6.7
4	☐	1000.000	968.894	2256.89	0.0047	P	1.6
5	☐	10000.000	10033.516	23166.58	0.0474	P	1.4
6	☐	20000.000	19985.009	44054.19	0.0944	P	4.5

y = 4.7167E-006 * x + 1.2424E-004
R = 1.0000
DL = 13.16
BEC = 26.34

Weight: <None>
Min Conc: <None>

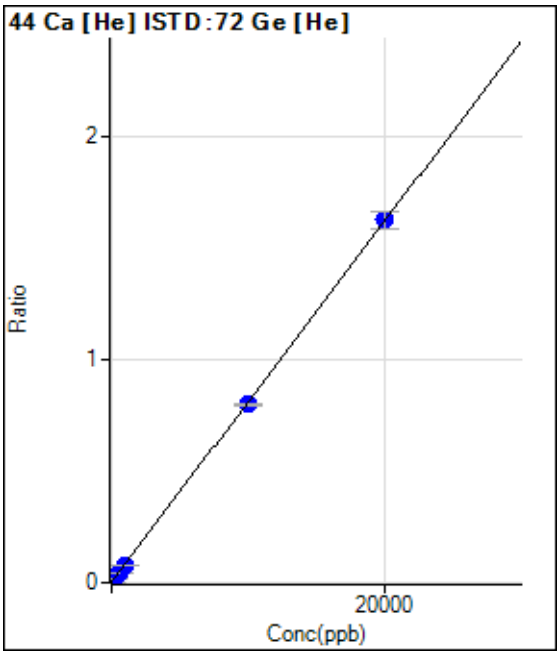
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62398.00	0.0488	P	3.1
2	☐	2.000	1.920	127568.19	0.1010	P	1.3
3	☐	5.000	4.864	229712.67	0.1812	P	2.2
4	☐	10.000	9.634	402175.90	0.3110	P	2.8
5	☐	100.000	103.582	3585426.20	2.8674	A	2.9
6	☐	200.000	198.232	6857884.27	5.4430	A	1.5

y = 0.0272 * x + 0.0488
R = 0.9998
DL = 0.169
BEC = 1.793

Weight: <None>
Min Conc: <None>

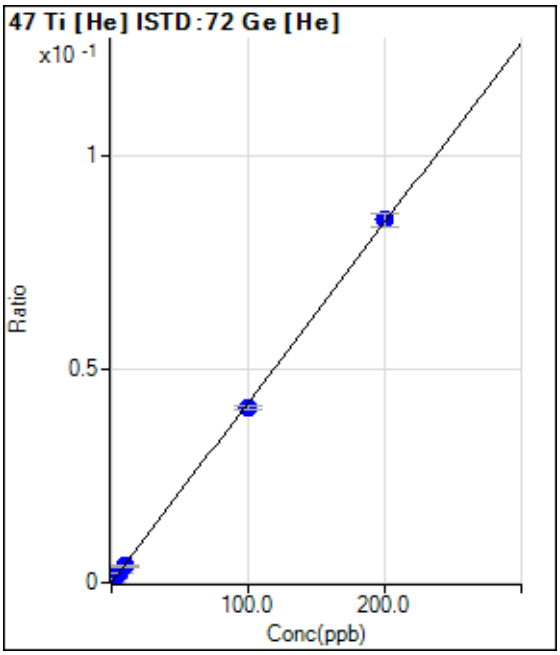


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1123.40	0.0023	P	13.5
2	☐	200.000	192.302	8556.13	0.0179	P	5.7
3	☐	500.000	461.922	19190.49	0.0397	P	2.1
4	☐	1000.000	952.963	38166.88	0.0794	P	4.6
5	☐	10000.000	9840.697	389773.55	0.7983	P	1.1
6	☐	20000.000	20083.032	759066.92	1.6268	P	5.1

y = 8.0887E-005 * x + 0.0023
R = 1.0000
DL = 11.62
BEC = 28.76

Weight: <None>
Min Conc: <None>

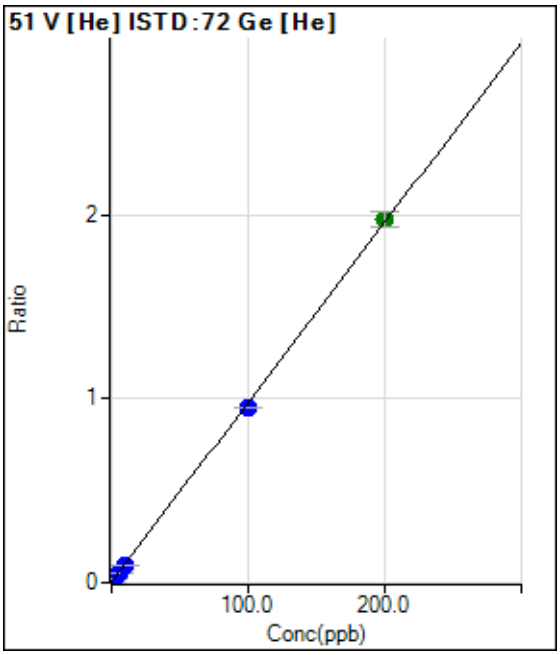
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	0.2
2	☐	2.000	1.778	376.68	0.0008	P	27.0
3	☐	5.000	4.903	1016.72	0.0021	P	3.4
4	☐	10.000	8.991	1836.83	0.0038	P	7.0
5	☐	100.000	97.000	19938.07	0.0408	P	2.5
6	☐	200.000	201.555	39584.14	0.0848	P	3.9

y = 4.2054E-004 * x + 4.1413E-005
R = 0.9998
DL = 0.0006499
BEC = 0.09847

Weight: <None>
Min Conc: <None>

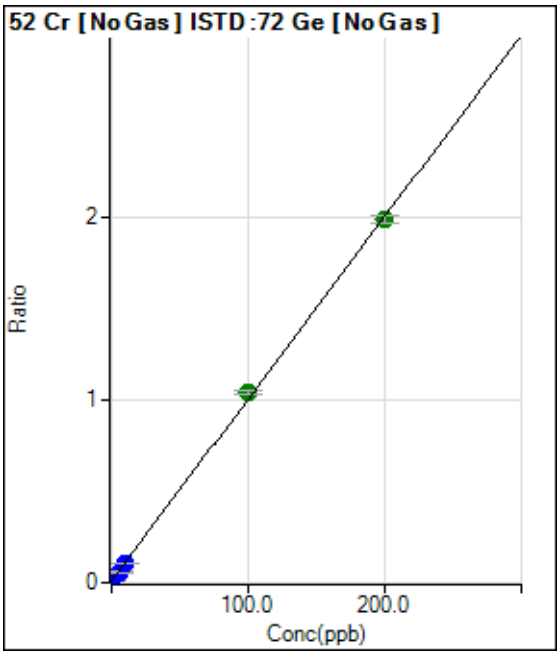


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1961.26	0.0041	P	5.5
2	☐	2.000	1.885	10746.50	0.0225	P	1.6
3	☐	5.000	4.666	23974.35	0.0496	P	1.7
4	☐	10.000	9.564	46810.86	0.0974	P	1.9
5	☐	100.000	96.899	463553.49	0.9494	P	0.7
6	☐	200.000	201.582	919761.53	1.9707	A	4.4

y = 0.0098 * x + 0.0041
R = 0.9998
DL = 0.06889
BEC = 0.4163

Weight: <None>
Min Conc: <None>

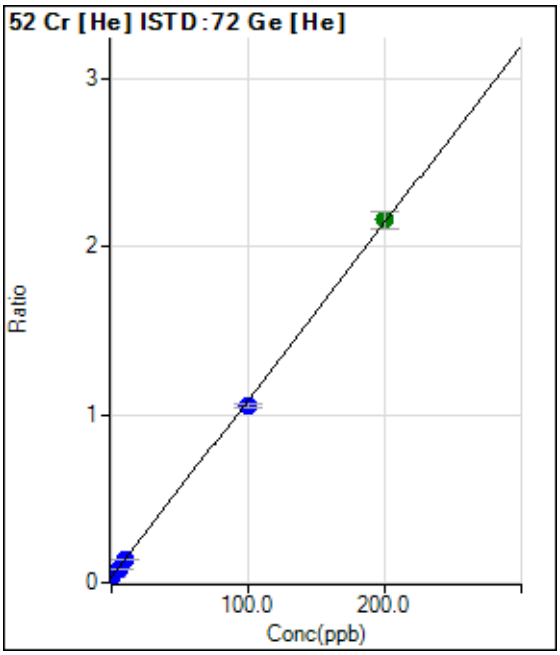
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13006.45	0.0102	P	2.3
2	☐	2.000	1.879	36519.18	0.0289	P	2.0
3	☐	5.000	4.735	72780.22	0.0574	P	3.4
4	☐	10.000	9.504	135770.54	0.1050	P	2.0
5	☐	100.000	103.242	1300509.85	1.0400	A	2.1
6	☐	200.000	198.412	2506206.47	1.9893	A	2.1

y = 0.0100 * x + 0.0102
R = 0.9998
DL = 0.07138
BEC = 1.02

Weight: <None>
Min Conc: <None>

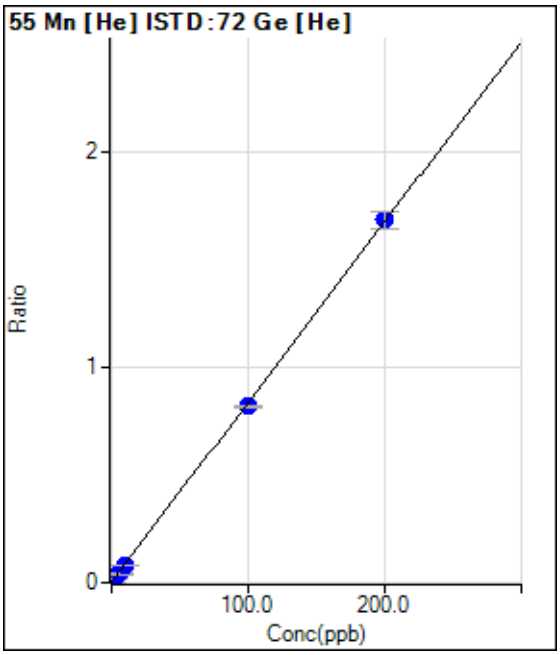


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16093.05	0.0333	P	3.2
2	☐	2.000	2.066	26365.78	0.0551	P	3.3
3	☐	5.000	4.730	40216.24	0.0832	P	0.7
4	☐	10.000	9.807	65711.24	0.1367	P	1.2
5	☐	100.000	96.657	513543.03	1.0518	P	1.5
6	☐	200.000	201.687	1007397.80	2.1585	A	4.7

y = 0.0105 * x + 0.0333
R = 0.9998
DL = 0.3007
BEC = 3.162

Weight: <None>
Min Conc: <None>

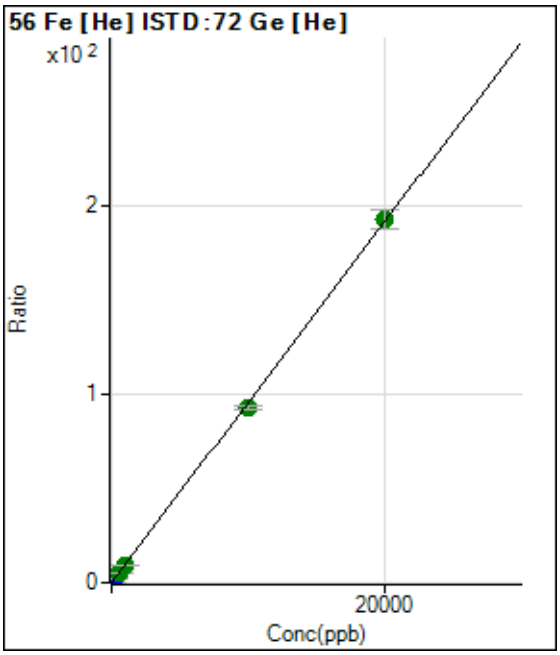
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1096.73	0.0023	P	5.2
2	☐	2.000	1.855	8506.15	0.0178	P	3.8
3	☐	5.000	4.563	19537.63	0.0404	P	1.7
4	☐	10.000	9.593	39634.72	0.0824	P	1.6
5	☐	100.000	97.600	399342.35	0.8179	P	1.5
6	☐	200.000	201.233	785777.00	1.6840	P	5.0

y = 0.0084 * x + 0.0023
R = 0.9999
DL = 0.04247
BEC = 0.2718

Weight: <None>
Min Conc: <None>

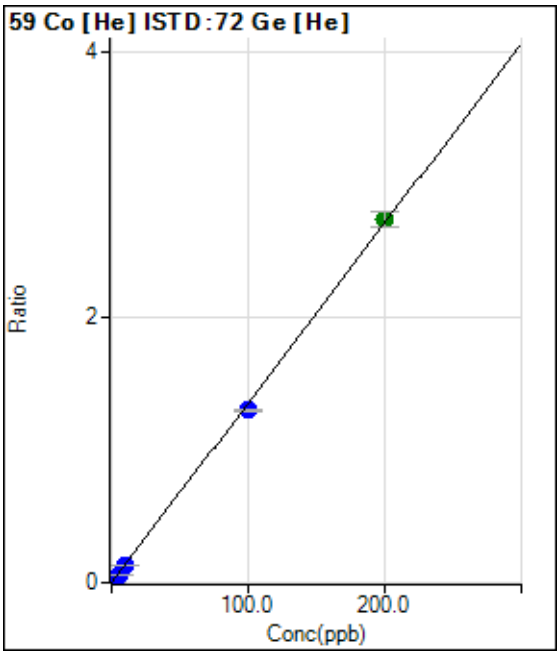


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28747.37	0.0595	P	0.9
2	☐	200.000	191.203	904239.00	1.8893	P	1.9
3	☐	500.000	478.205	2241504.81	4.6359	A	1.5
4	☐	1000.000	980.698	4540620.35	9.4447	A	2.6
5	☐	10000.000	9741.814	45545544.32	93.2878	A	2.0
6	☐	20000.000	20130.691	89924638.66	192.7084	A	5.2

y = 0.0096 * x + 0.0595
R = 0.9999
DL = 0.1709
BEC = 6.22

Weight: <None>
Min Conc: <None>

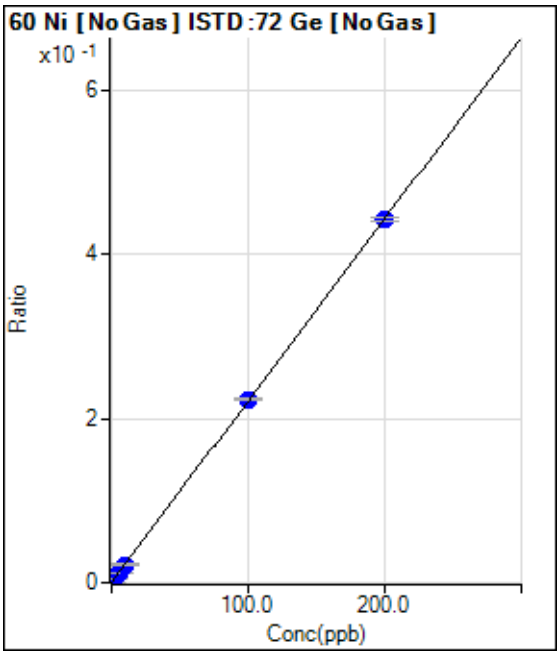
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0002	P	10.7
2	☐	2.000	1.938	12666.11	0.0265	P	1.4
3	☐	5.000	4.622	30371.01	0.0628	P	4.2
4	☐	10.000	9.642	62901.98	0.1308	P	2.0
5	☐	100.000	96.168	636111.41	1.3028	P	0.8
6	☐	200.000	201.944	1276687.59	2.7355	A	4.3

y = 0.0135 * x + 2.2085E-004
R = 0.9997
DL = 0.005238
BEC = 0.01631

Weight: <None>
Min Conc: <None>

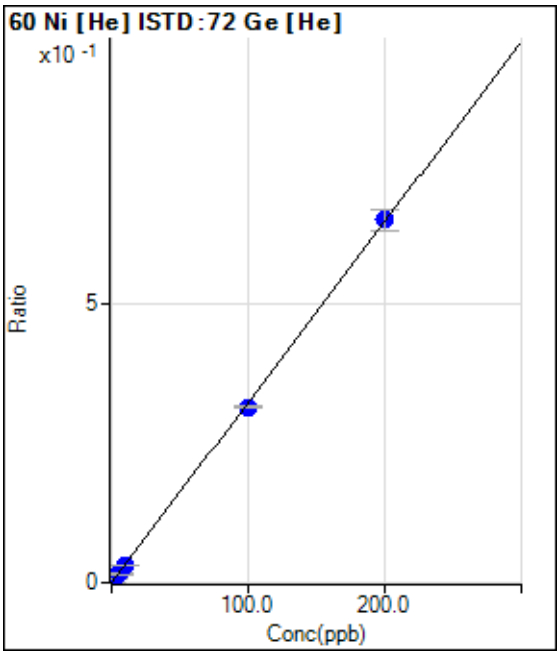


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.01	0.0003	P	16.5
2	☐	2.000	1.938	5834.70	0.0046	P	5.5
3	☐	5.000	4.825	13954.04	0.0110	P	1.8
4	☐	10.000	9.806	28480.26	0.0220	P	4.4
5	☐	100.000	100.824	279152.14	0.2232	P	1.3
6	☐	200.000	199.603	556423.54	0.4416	P	1.0

y = 0.0022 * x + 3.3721E-004
R = 1.0000
DL = 0.07569
BEC = 0.1525

Weight: <None>
Min Conc: <None>

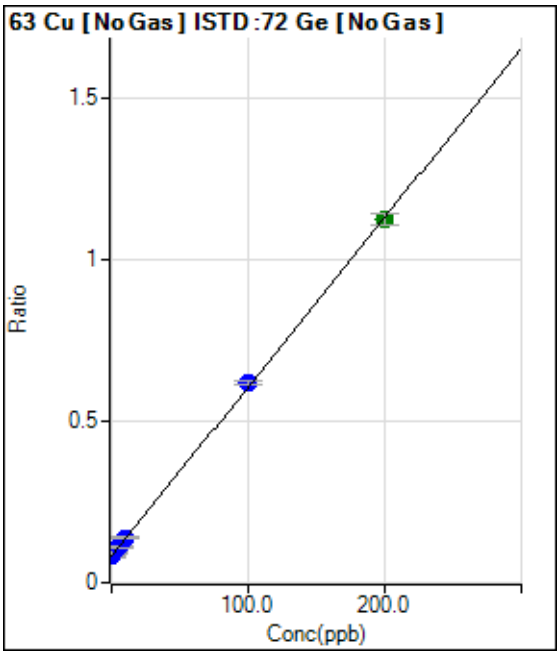
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.67	0.0002	P	32.3
2	☐	2.000	1.877	3027.07	0.0063	P	4.0
3	☐	5.000	4.777	7602.26	0.0157	P	4.8
4	☐	10.000	9.917	15572.52	0.0324	P	1.6
5	☐	100.000	97.476	154366.61	0.3162	P	1.0
6	☐	200.000	201.273	304445.08	0.6526	P	5.8

y = 0.0032 * x + 2.4153E-004
R = 0.9999
DL = 0.0723
BEC = 0.07452

Weight: <None>
Min Conc: <None>

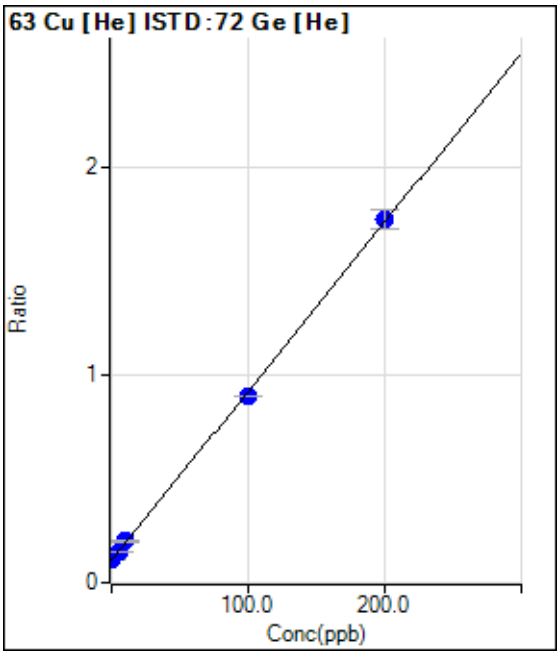


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104875.23	0.0821	P	4.3
2	☐	2.000	2.073	117305.57	0.0929	P	2.8
3	☐	5.000	5.555	140997.65	0.1112	P	2.0
4	☐	10.000	10.924	180208.57	0.1393	P	2.8
5	☐	100.000	102.503	774669.36	0.6195	P	2.0
6	☐	200.000	198.687	1415712.48	1.1238	A	3.2

y = 0.0052 * x + 0.0821
R = 0.9999
DL = 2.033
BEC = 15.65

Weight: <None>
Min Conc: <None>

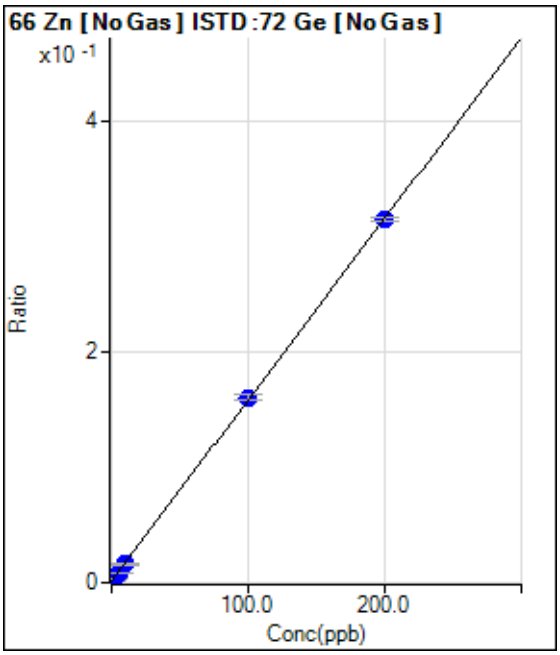
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51989.36	0.1076	P	1.7
2	☐	2.000	2.344	60675.51	0.1268	P	1.3
3	☐	5.000	5.297	72948.15	0.1509	P	2.0
4	☐	10.000	11.418	96575.16	0.2008	P	1.9
5	☐	100.000	97.250	440098.47	0.9014	P	0.2
6	☐	200.000	201.293	816752.10	1.7505	P	5.3

y = 0.0082 * x + 0.1076
R = 0.9998
DL = 0.6659
BEC = 13.19

Weight: <None>
Min Conc: <None>

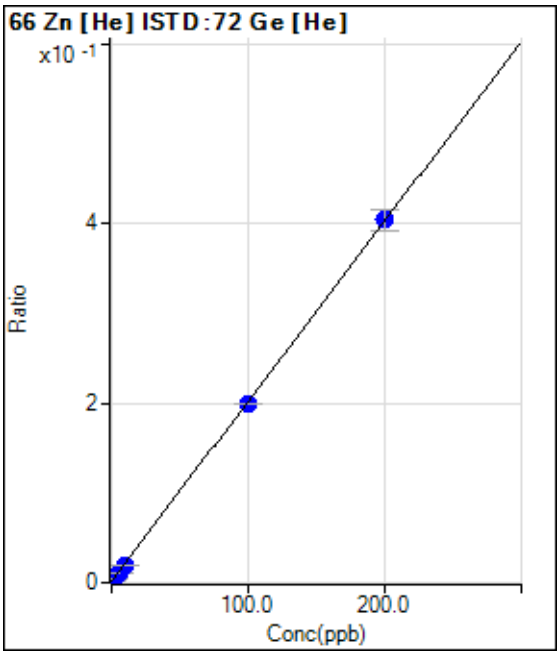


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1906.83	0.0015	P	8.6
2	☐	2.000	1.629	5107.74	0.0040	P	2.0
3	☐	5.000	4.456	10747.78	0.0085	P	2.3
4	☐	10.000	9.195	20575.89	0.0159	P	1.2
5	☐	100.000	101.250	200299.25	0.1602	P	2.8
6	☐	200.000	199.433	395718.51	0.3141	P	1.2

y = 0.0016 * x + 0.0015
R = 1.0000
DL = 0.2449
BEC = 0.9521

Weight: <None>
Min Conc: <None>

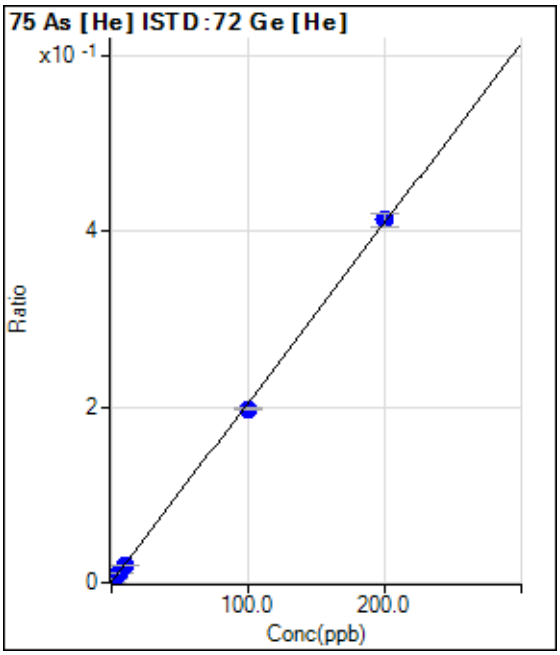
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	820.04	0.0017	P	6.3
2	☐	2.000	1.746	2486.95	0.0052	P	4.5
3	☐	5.000	4.667	5341.17	0.0110	P	6.3
4	☐	10.000	9.184	9656.97	0.0201	P	1.0
5	☐	100.000	98.432	97043.50	0.1988	P	0.3
6	☐	200.000	200.835	188364.03	0.4038	P	5.9

y = 0.0020 * x + 0.0017
R = 1.0000
DL = 0.1601
BEC = 0.8483

Weight: <None>
Min Conc: <None>

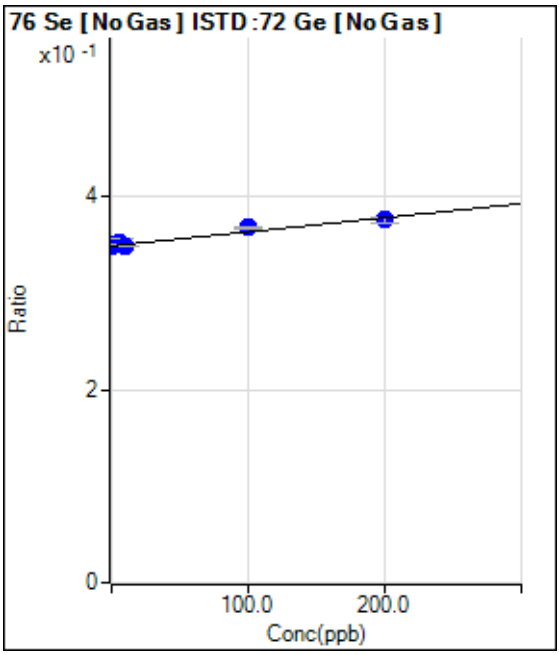


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0004	P	5.2
2	☐	2.000	1.953	2127.96	0.0044	P	4.1
3	☐	5.000	4.718	4886.46	0.0101	P	2.3
4	☐	10.000	9.671	9731.32	0.0202	P	1.9
5	☐	100.000	96.585	96736.45	0.1981	P	0.9
6	☐	200.000	201.731	192924.68	0.4133	P	3.7

y = 0.0020 * x + 4.4862E-004
R = 0.9998
DL = 0.03434
BEC = 0.2192

Weight: <None>
Min Conc: <None>

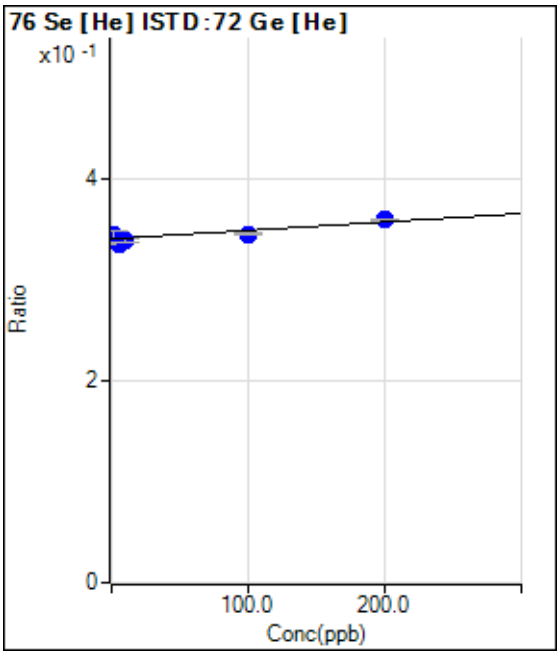
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	445561.48	0.3486	P	3.8
2	☐	2.000	17.653	443408.43	0.3512	P	0.9
3	☐	5.000	28.255	447293.67	0.3527	P	1.8
4	☐	10.000	-2.498	450506.41	0.3482	P	0.4
5	☐	100.000	131.472	459977.17	0.3678	P	0.6
6	☐	200.000	184.151	473137.74	0.3755	P	1.5

y = 1.4614E-004 * x + 0.3486
R = 0.9713
DL = 273.9
BEC = 2385

Weight: <None>
Min Conc: <None>

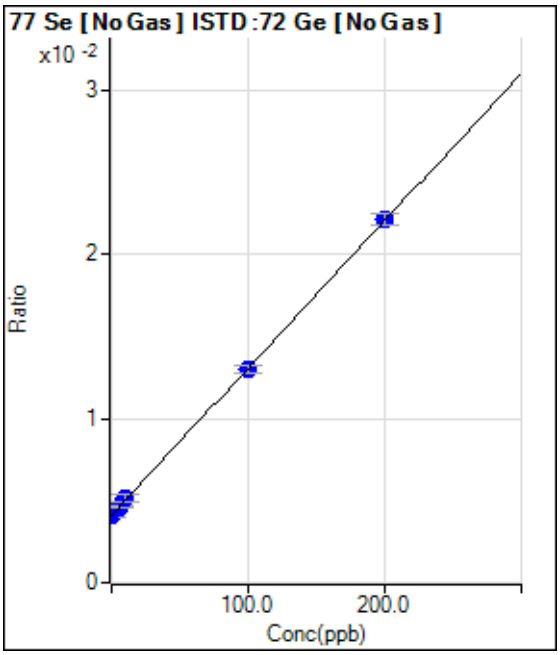


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164236.14	0.3401	P	0.9
2	☐	2.000	54.602	164938.64	0.3447	P	2.1
3	☐	5.000	-62.995	161884.56	0.3348	P	0.1
4	☐	10.000	-17.909	162785.66	0.3386	P	1.0
5	☐	100.000	58.483	168433.89	0.3450	P	1.0
6	☐	200.000	223.328	167673.35	0.3588	P	0.5

y = 8.3954E-005 * x + 0.3401
R = 0.8994
DL = 107.1
BEC = 4051

Weight: <None>
Min Conc: <None>

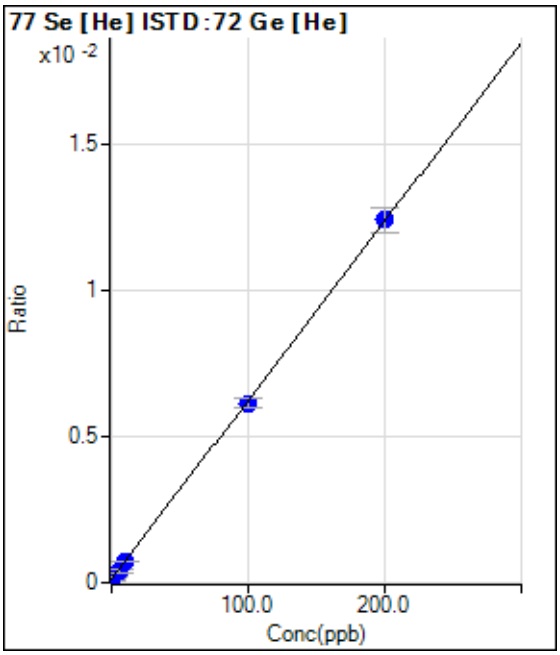
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5244.46	0.0041	P	4.3
2	☐	2.000	3.790	5611.28	0.0044	P	5.2
3	☐	5.000	5.439	5821.38	0.0046	P	2.5
4	☐	10.000	12.033	6705.12	0.0052	P	8.4
5	☐	100.000	98.761	16196.65	0.0130	P	3.2
6	☐	200.000	200.489	27799.09	0.0221	P	3.1

y = 8.9603E-005 * x + 0.0041
R = 0.9999
DL = 5.853
BEC = 45.8

Weight: <None>
Min Conc: <None>

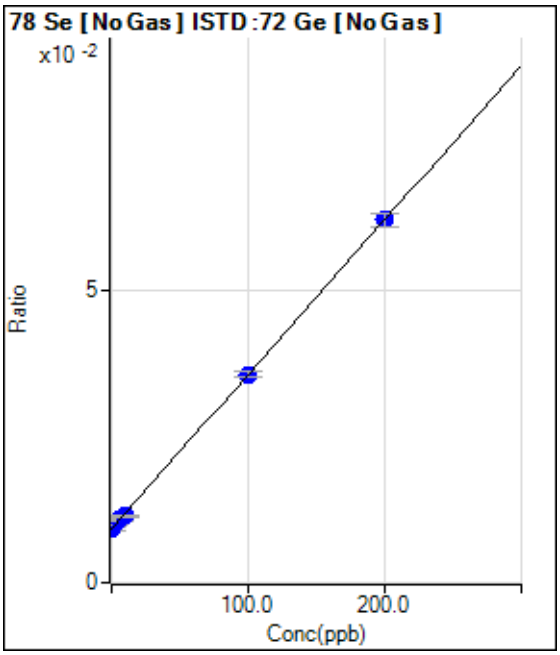


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	44.0
2	☐	2.000	1.944	116.67	0.0002	P	43.6
3	☐	5.000	4.379	190.00	0.0004	P	26.6
4	☐	10.000	9.975	353.34	0.0007	P	4.5
5	☐	100.000	98.193	2993.73	0.0061	P	5.5
6	☐	200.000	200.921	5791.36	0.0124	P	6.9

y = 6.1188E-005 * x + 1.2418E-004
R = 0.9999
DL = 2.677
BEC = 2.03

Weight: <None>
Min Conc: <None>

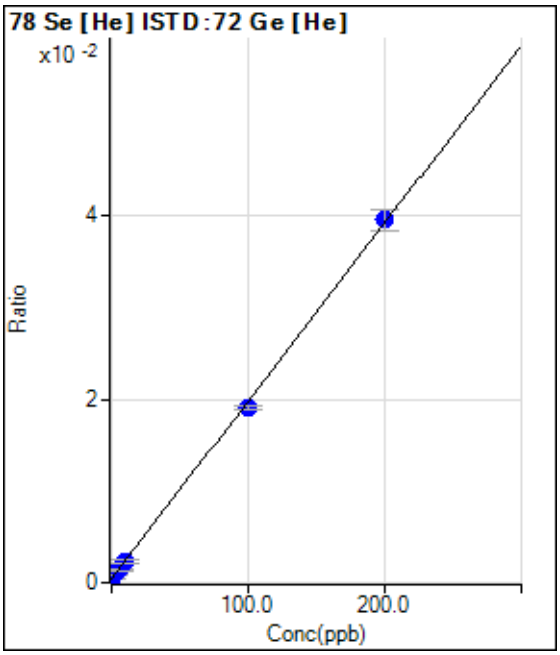
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11808.73	0.0092	P	4.0
2	☐	2.000	3.009	12672.82	0.0100	P	1.7
3	☐	5.000	5.767	13653.77	0.0108	P	3.6
4	☐	10.000	8.361	14821.73	0.0115	P	3.5
5	☐	100.000	100.167	44734.56	0.0358	P	2.4
6	☐	200.000	199.969	78364.53	0.0622	P	3.8

y = 2.6489E-004 * x + 0.0092
R = 0.9999
DL = 4.193
BEC = 34.88

Weight: <None>
Min Conc: <None>

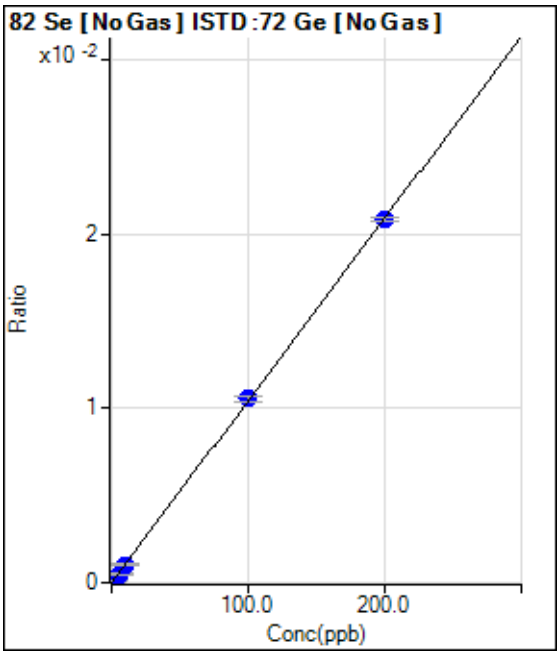


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	207.33	0.0004	P	7.0
2	☐	2.000	2.172	407.34	0.0009	P	3.0
3	☐	5.000	4.950	672.02	0.0014	P	5.3
4	☐	10.000	9.713	1111.38	0.0023	P	10.7
5	☐	100.000	96.232	9323.91	0.0191	P	1.5
6	☐	200.000	201.898	18472.66	0.0396	P	5.6

y = 1.9398E-004 * x + 4.2935E-004
R = 0.9997
DL = 0.4658
BEC = 2.213

Weight: <None>
Min Conc: <None>

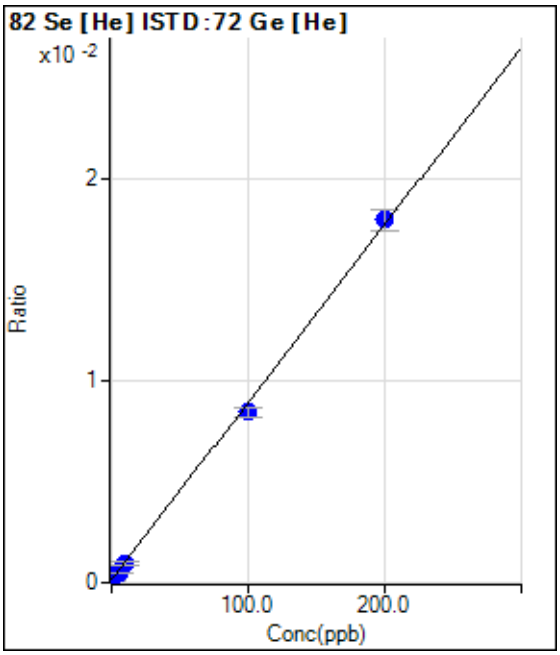
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-48.80	0.0000	P	-97.6
2	☐	2.000	1.779	187.85	0.0001	P	75.6
3	☐	5.000	4.674	571.41	0.0005	P	8.0
4	☐	10.000	9.946	1294.91	0.0010	P	12.2
5	☐	100.000	101.240	13185.16	0.0105	P	3.0
6	☐	200.000	199.393	26217.91	0.0208	P	1.0

y = 1.0453E-004 * x - 3.7860E-005
R = 1.0000
DL = 1.06
BEC = -0.3622

Weight: <None>
Min Conc: <None>

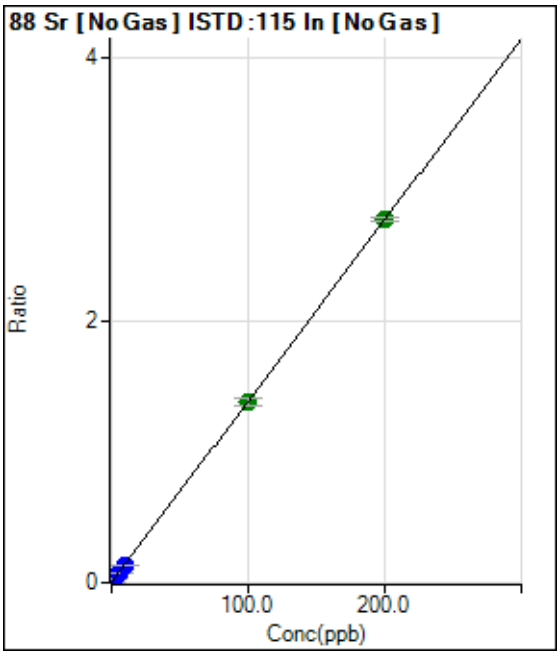


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0001	P	14.5
2	☐	2.000	2.228	163.34	0.0003	P	22.8
3	☐	5.000	3.446	216.67	0.0004	P	8.0
4	☐	10.000	9.284	463.35	0.0010	P	14.3
5	☐	100.000	94.393	4127.39	0.0085	P	4.8
6	☐	200.000	202.876	8399.44	0.0180	P	5.7

y = 8.8025E-005 * x + 1.4497E-004
R = 0.9995
DL = 0.7156
BEC = 1.647

Weight: <None>
Min Conc: <None>

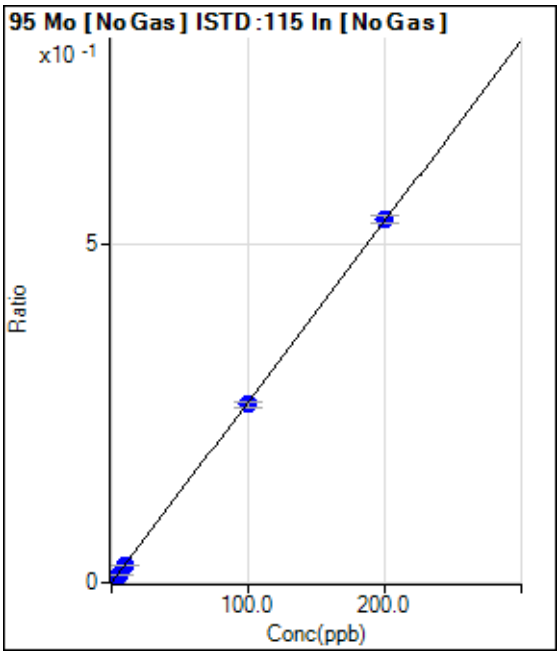
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2476.95	0.0022	P	5.9
2	☐	2.000	1.873	31885.12	0.0281	P	0.8
3	☐	5.000	4.685	76267.34	0.0669	P	1.7
4	☐	10.000	9.680	155846.73	0.1360	P	2.3
5	☐	100.000	99.873	1559472.63	1.3824	A	3.9
6	☐	200.000	200.089	3070183.19	2.7674	A	1.0

y = 0.0138 * x + 0.0022
R = 1.0000
DL = 0.02825
BEC = 0.1585

Weight: <None>
Min Conc: <None>

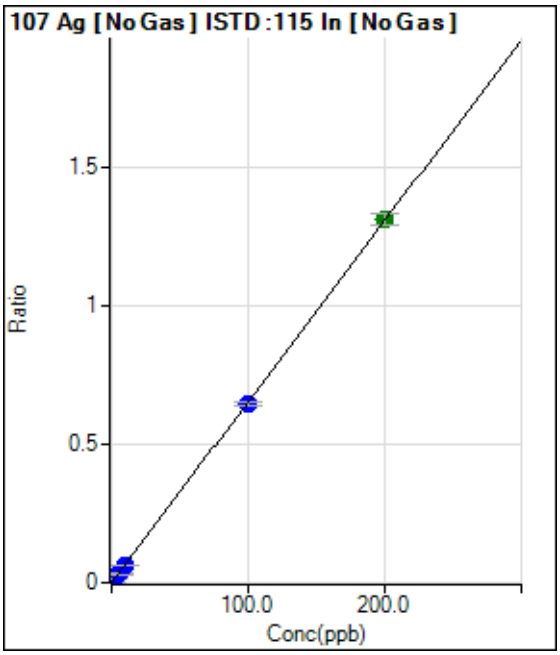


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	58.3
2	☐	2.000	1.877	5738.00	0.0051	P	8.1
3	☐	5.000	4.575	13974.23	0.0123	P	2.8
4	☐	10.000	9.497	29135.75	0.0254	P	2.1
5	☐	100.000	98.577	297236.88	0.2634	P	2.8
6	☐	200.000	200.749	595061.01	0.5365	P	2.2

y = 0.0027 * x + 3.8231E-005
R = 1.0000
DL = 0.02501
BEC = 0.01431

Weight: <None>
Min Conc: <None>

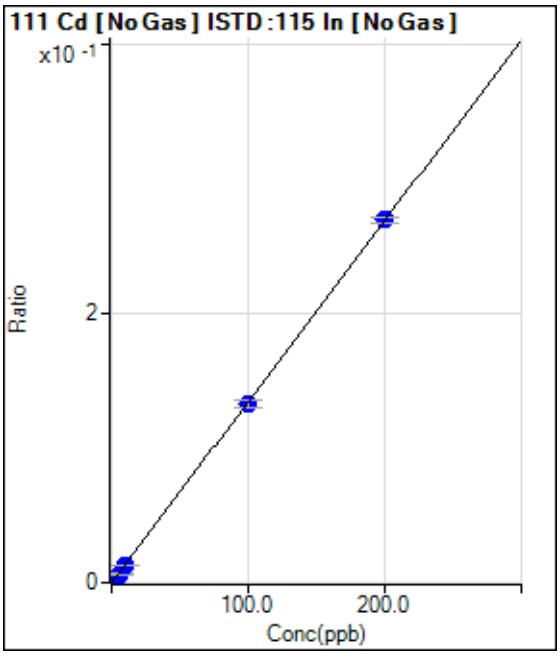
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0000	P	25.1
2	☐	2.000	1.899	14121.13	0.0124	P	4.5
3	☐	5.000	4.781	35591.82	0.0312	P	3.0
4	☐	10.000	9.603	71865.36	0.0627	P	2.0
5	☐	100.000	98.783	727093.12	0.6445	P	3.0
6	☐	200.000	200.635	1451836.28	1.3089	A	3.4

y = 0.0065 * x + 4.9921E-005
R = 1.0000
DL = 0.005772
BEC = 0.007652

Weight: <None>
Min Conc: <None>

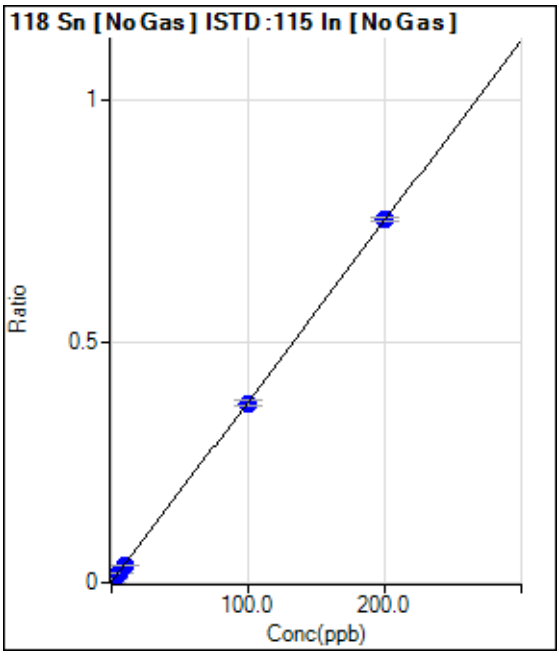


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.890	2887.03	0.0025	P	9.8
3	☐	5.000	4.746	7265.43	0.0064	P	3.7
4	☐	10.000	9.631	14825.28	0.0129	P	0.6
5	☐	100.000	98.740	149496.99	0.1325	P	4.0
6	☐	200.000	200.656	298733.19	0.2693	P	1.9

y = 0.0013 * x + 5.7600E-006
R = 1.0000
DL = 0.0223
BEC = 0.004292

Weight: <None>
Min Conc: <None>

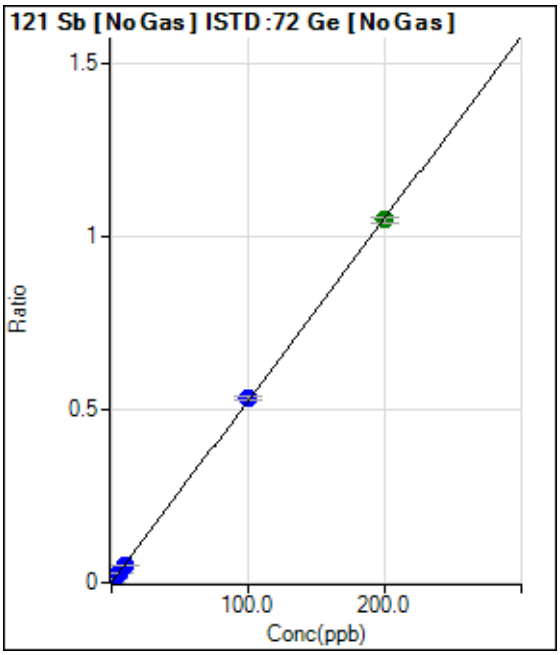
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1153.41	0.0010	P	6.7
2	☐	2.000	1.839	8986.69	0.0079	P	7.3
3	☐	5.000	4.684	21170.70	0.0186	P	1.5
4	☐	10.000	9.527	42118.18	0.0367	P	1.9
5	☐	100.000	98.974	419814.10	0.3721	P	2.8
6	☐	200.000	200.546	835215.59	0.7529	P	1.2

y = 0.0037 * x + 0.0010
R = 1.0000
DL = 0.05497
BEC = 0.2721

Weight: <None>
Min Conc: <None>

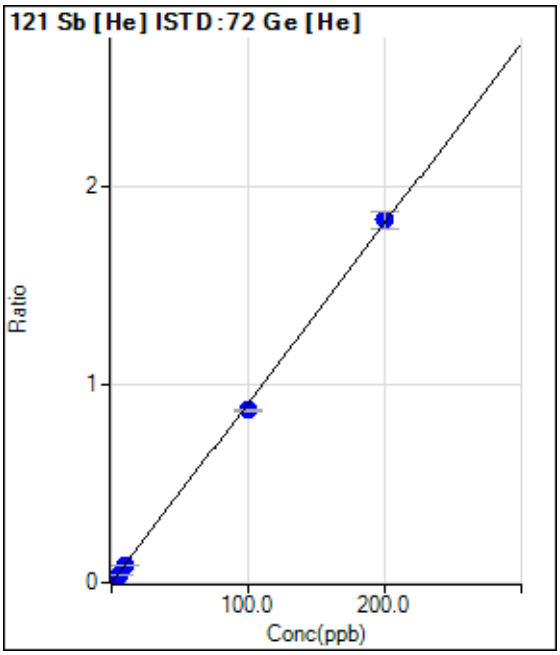


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0001	P	10.8
2	☐	2.000	1.940	13083.44	0.0104	P	3.5
3	☐	5.000	4.792	32189.90	0.0254	P	2.7
4	☐	10.000	9.667	66029.56	0.0511	P	2.8
5	☐	100.000	101.471	668392.28	0.5345	P	1.7
6	☐	200.000	199.287	1322420.24	1.0496	A	1.5

y = 0.0053 * x + 1.4818E-004
R = 1.0000
DL = 0.009096
BEC = 0.02814

Weight: <None>
Min Conc: <None>

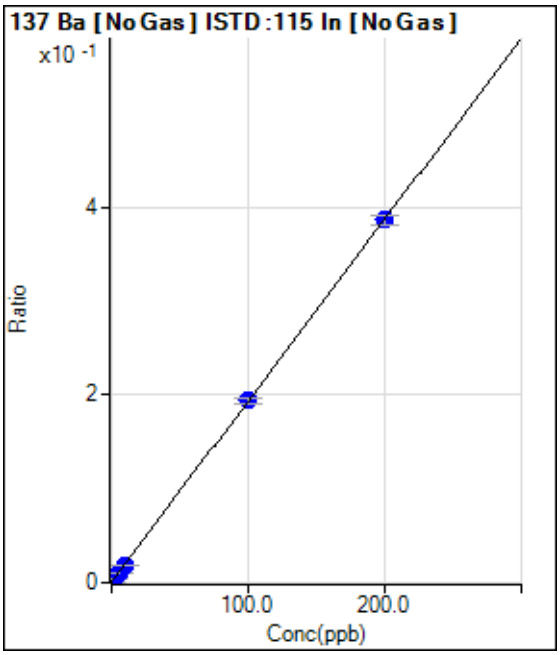
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0003	P	19.3
2	☐	2.000	1.857	8232.73	0.0172	P	1.4
3	☐	5.000	4.504	19942.18	0.0412	P	0.8
4	☐	10.000	9.542	41833.97	0.0870	P	1.3
5	☐	100.000	96.042	426168.47	0.8729	P	1.2
6	☐	200.000	202.016	856512.96	1.8356	P	5.0

y = 0.0091 * x + 3.2433E-004
R = 0.9997
DL = 0.02071
BEC = 0.0357

Weight: <None>
Min Conc: <None>

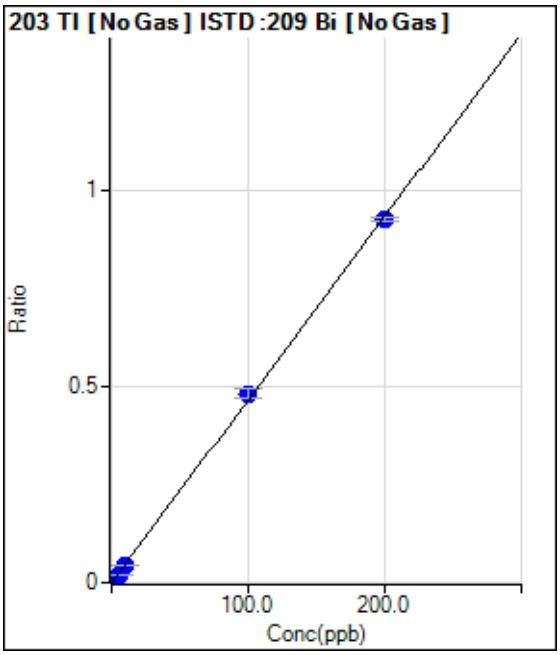


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	683.36	0.0006	P	10.4
2	☐	2.000	2.073	5234.51	0.0046	P	2.9
3	☐	5.000	4.666	10958.15	0.0096	P	2.0
4	☐	10.000	9.614	21988.86	0.0192	P	2.1
5	☐	100.000	100.309	219333.26	0.1944	P	3.4
6	☐	200.000	199.873	429020.31	0.3868	P	2.3

y = 0.0019 * x + 6.0324E-004
R = 1.0000
DL = 0.09725
BEC = 0.3122

Weight: <None>
Min Conc: <None>

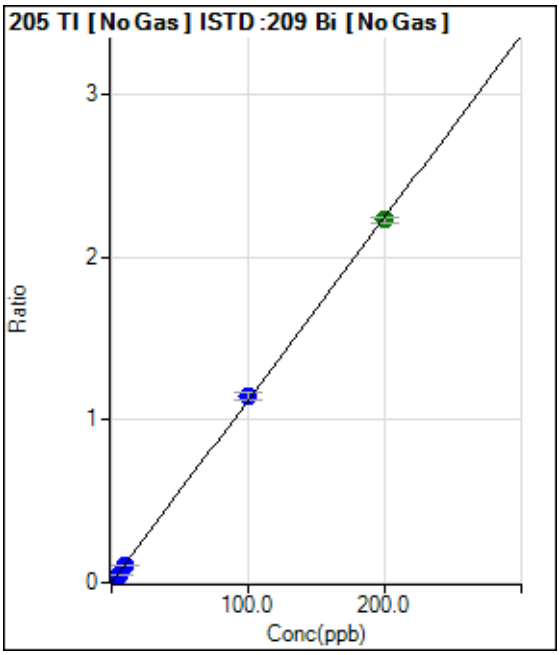
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	78.1
2	☐	2.000	1.932	6835.33	0.0090	P	0.3
3	☐	5.000	4.591	16457.77	0.0214	P	2.3
4	☐	10.000	9.571	34250.57	0.0446	P	2.1
5	☐	100.000	103.345	360778.56	0.4810	P	4.9
6	☐	200.000	198.360	691803.71	0.9232	P	1.2

y = 0.0047 * x + 3.5350E-005
R = 0.9998
DL = 0.01779
BEC = 0.007596

Weight: <None>
Min Conc: <None>

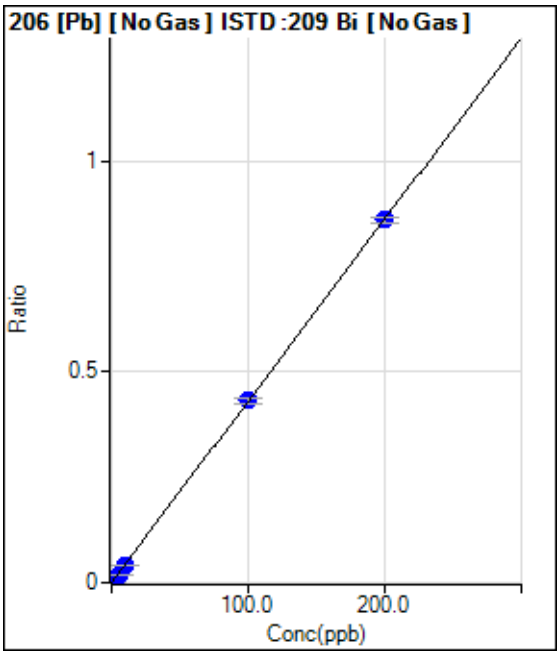


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0001	P	15.1
2	☐	2.000	1.865	15943.80	0.0210	P	3.5
3	☐	5.000	4.580	39643.42	0.0516	P	0.9
4	☐	10.000	9.501	82056.42	0.1068	P	3.0
5	☐	100.000	102.556	864192.23	1.1521	P	4.2
6	☐	200.000	198.759	1673302.68	2.2327	A	1.6

y = 0.0112 * x + 1.0162E-004
R = 0.9999
DL = 0.004093
BEC = 0.009047

Weight: <None>
Min Conc: <None>

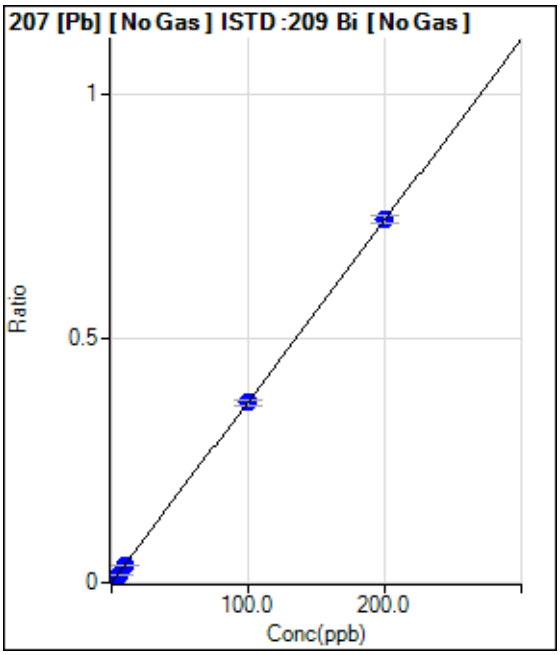
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0001	P	24.7
2	☐	2.000	1.873	6178.34	0.0082	P	2.7
3	☐	5.000	4.617	15356.37	0.0200	P	1.4
4	☐	10.000	9.617	31881.24	0.0415	P	1.4
5	☐	100.000	100.400	324377.88	0.4324	P	3.3
6	☐	200.000	199.830	644721.11	0.8605	P	1.7

y = 0.0043 * x + 9.2771E-005
R = 1.0000
DL = 0.01597
BEC = 0.02155

Weight: <None>
Min Conc: <None>

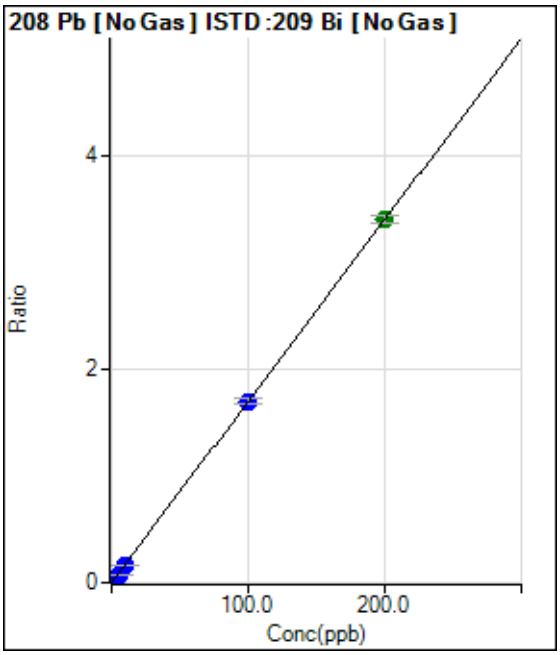


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0001	P	37.5
2	☐	2.000	1.903	5431.31	0.0072	P	4.6
3	☐	5.000	4.626	13280.64	0.0173	P	2.5
4	☐	10.000	9.661	27624.22	0.0360	P	1.8
5	☐	100.000	99.415	276859.99	0.3690	P	3.3
6	☐	200.000	200.320	557028.25	0.7434	P	2.1

y = 0.0037 * x + 1.0603E-004
R = 1.0000
DL = 0.03214
BEC = 0.02857

Weight: <None>
Min Conc: <None>

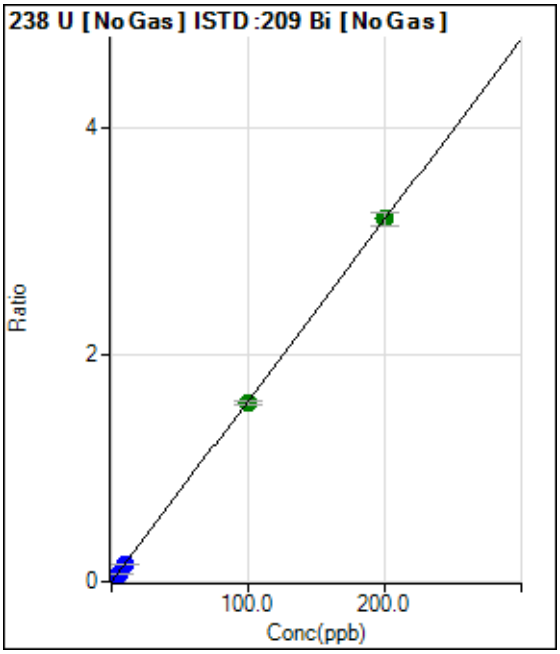
Calibration for 358_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	350.01	0.0005	P	30.2
2	☐	2.000	1.888	24660.10	0.0326	P	1.5
3	☐	5.000	4.682	61574.38	0.0801	P	1.3
4	☐	10.000	9.592	125644.27	0.1636	P	2.4
5	☐	100.000	99.931	1275078.10	1.6995	P	3.2
6	☐	200.000	200.064	2548951.47	3.4020	A	2.1

y = 0.0170 * x + 4.6385E-004
R = 1.0000
DL = 0.02471
BEC = 0.02728

Weight: <None>
Min Conc: <None>

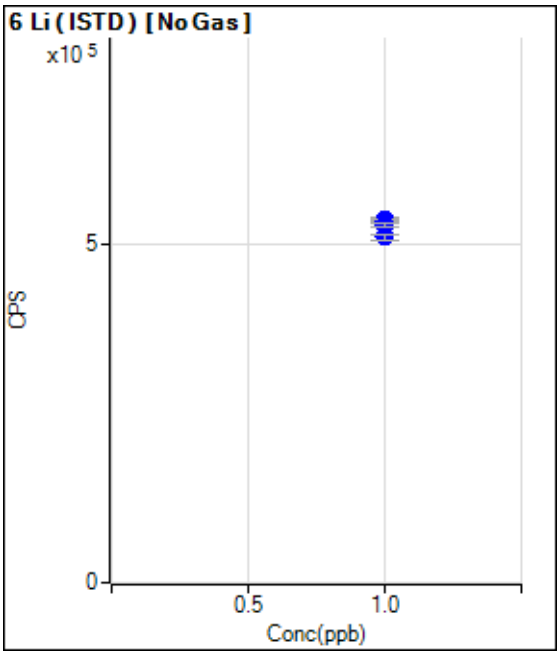


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	173.2
2	☐	2.000	1.804	21826.54	0.0288	P	2.1
3	☐	5.000	4.498	55261.50	0.0719	P	0.3
4	☐	10.000	9.212	113042.65	0.1471	P	2.4
5	☐	100.000	98.953	1185930.84	1.5805	A	2.3
6	☐	200.000	200.577	2399870.12	3.2036	A	3.6

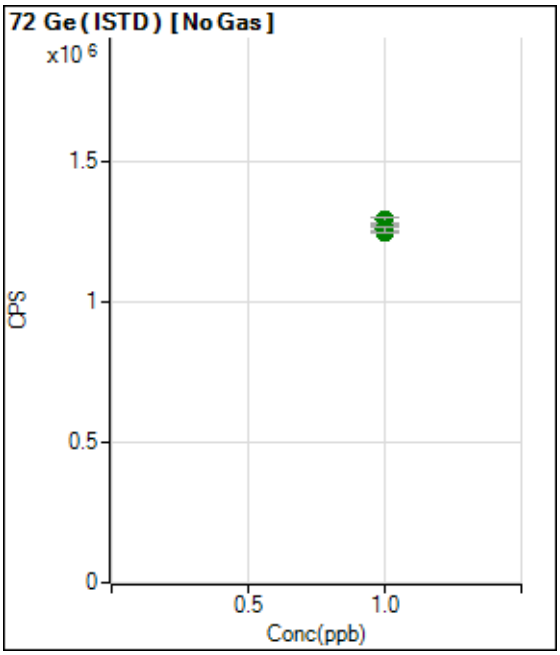
y = 0.0160 * x + 1.7659E-005
R = 1.0000
DL = 0.005745
BEC = 0.001106

Weight: <None>
Min Conc: <None>

Calibration for 358_ICV.d

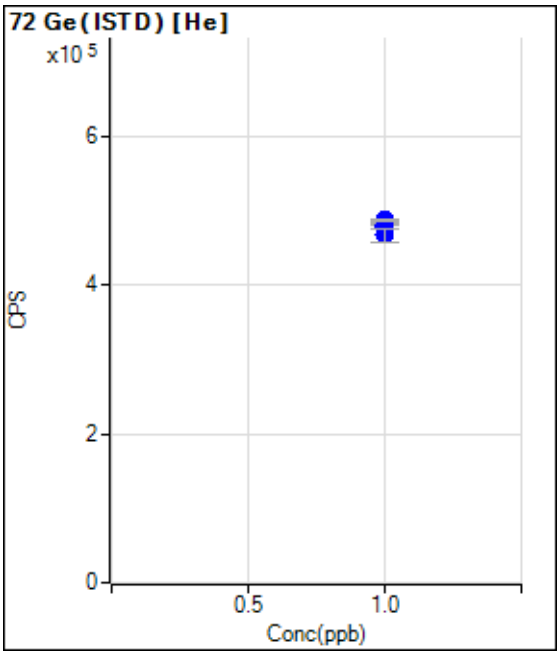


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		534465.35		P	1.2
2	☐	1.000		534678.78		P	0.8
3	☐	1.000		533484.20		P	1.8
4	☐	1.000		534084.48		P	1.1
5	☐	1.000		527009.10		P	1.2
6	☐	1.000		508923.90		P	1.8

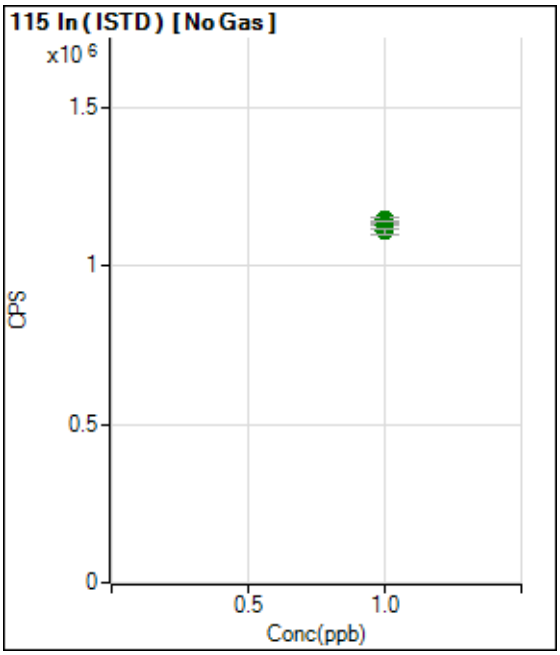


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1279198.60		A	3.4
2	☐	1.000		1262621.80		A	1.0
3	☐	1.000		1268249.77		A	1.7
4	☐	1.000		1293627.40		A	1.2
5	☐	1.000		1250564.77		A	0.7
6	☐	1.000		1260094.43		A	1.5

Calibration for 358_ICV.d

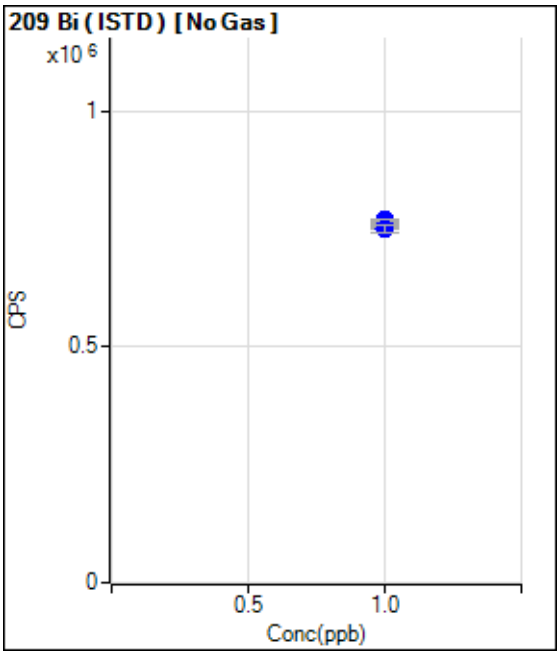


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		482944.73		P	0.2
2	☐	1.000		478654.83		P	1.6
3	☐	1.000		483556.58		P	1.1
4	☐	1.000		480857.40		P	1.5
5	☐	1.000		488259.07		P	0.5
6	☐	1.000		467234.82		P	4.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1131386.16		A	2.1
2	☐	1.000		1135602.27		A	0.7
3	☐	1.000		1139425.21		A	0.8
4	☐	1.000		1146383.92		A	0.9
5	☐	1.000		1128739.70		A	2.4
6	☐	1.000		1109412.95		A	1.2

Calibration for 358_ICV.d



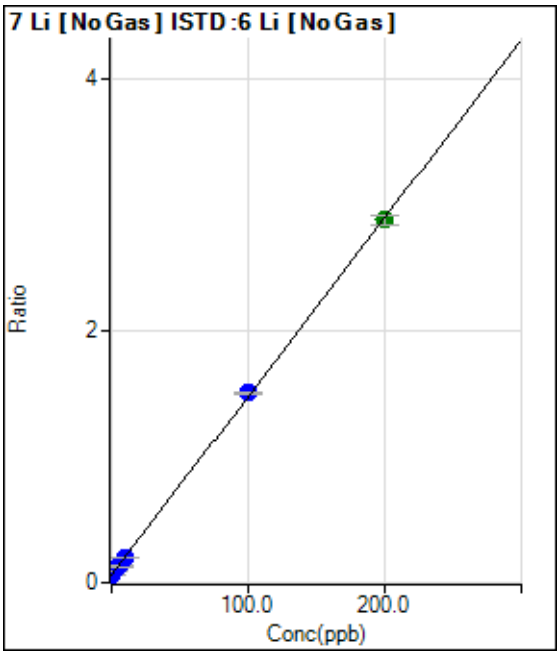
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		754481.16		P	0.1
2	☐	1.000		757298.79		P	1.6
3	☐	1.000		769010.72		P	0.2
4	☐	1.000		768336.19		P	0.9
5	☐	1.000		750582.31		P	2.2
6	☐	1.000		749437.62		P	1.8

Calibration for 190_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\020723A.b\
Analysis File: 020723A.batch.bin
DA Date-Time: 2/7/2023 11:20:47 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	183CALB.d	CAL BLK	2/7/2023 5:08:49 PM
2	184CALS.d	2/10/200	2/7/2023 5:10:48 PM
3	185CALS.d	5/25/500	2/7/2023 5:12:48 PM
4	186CALS.d	10/50/100	2/7/2023 5:14:47 PM
5	187CALS.d	100/500/10K	2/7/2023 5:16:46 PM
6	188CALS.d	200/1000/20K	2/7/2023 5:18:42 PM

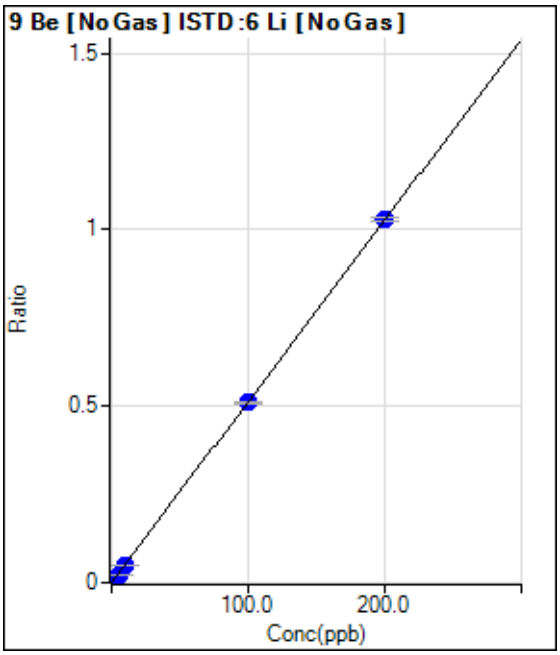
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26503.43	0.0623	P	1.4
2	☐	2.000	1.897	38290.54	0.0892	P	1.8
3	☐	5.000	4.774	55402.11	0.1300	P	1.9
4	☐	10.000	9.635	84290.12	0.1989	P	0.8
5	☐	100.000	102.027	618829.12	1.5091	P	1.3
6	☐	200.000	199.011	1166185.32	2.8845	A	2.4

y = 0.0142 * x + 0.0623
R = 0.9999
DL = 0.1827
BEC = 4.391

Weight: <None>
Min Conc: <None>

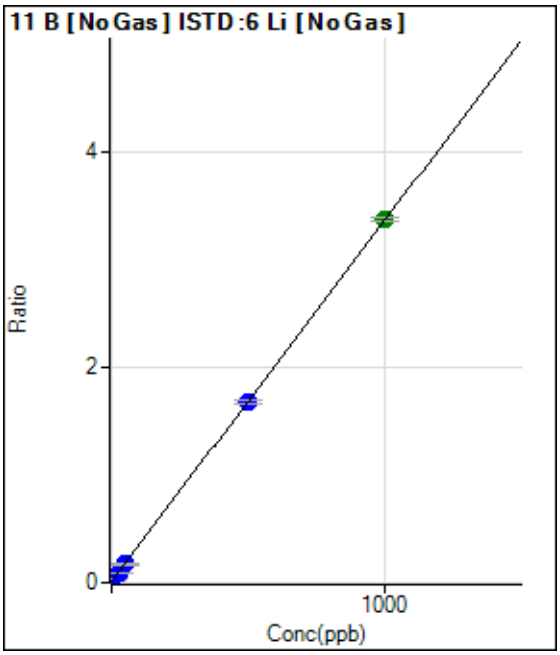


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.33	0.0000	P	58.2
2	☐	2.000	1.858	4112.30	0.0096	P	1.9
3	☐	5.000	4.632	10150.41	0.0238	P	0.2
4	☐	10.000	9.300	20229.61	0.0478	P	3.9
5	☐	100.000	99.368	209048.98	0.5098	P	1.2
6	☐	200.000	200.362	415694.52	1.0280	P	1.1

y = 0.0051 * x + 4.3400E-005
R = 1.0000
DL = 0.01478
BEC = 0.008459

Weight: <None>
Min Conc: <None>

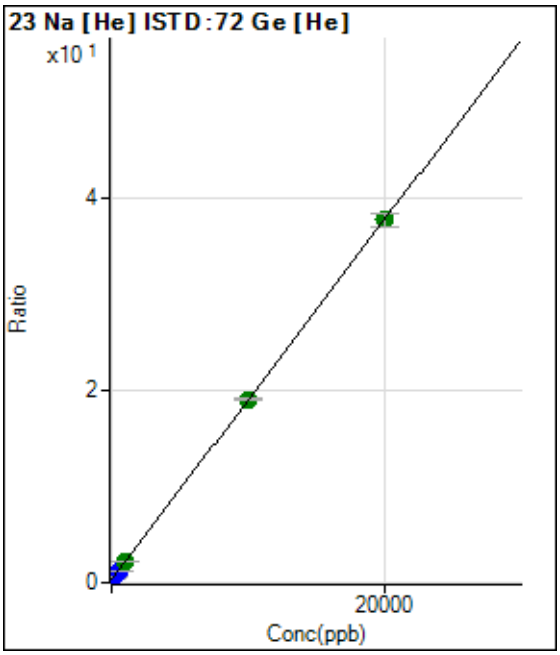
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6261.46	0.0147	P	2.6
2	☐	10.000	9.086	19376.78	0.0451	P	2.8
3	☐	25.000	22.531	38432.59	0.0902	P	1.5
4	☐	50.000	46.301	71928.39	0.1697	P	1.7
5	☐	500.000	496.675	687888.79	1.6778	P	1.9
6	☐	1000.000	1001.919	1362818.94	3.3695	A	0.9

y = 0.0033 * x + 0.0147
R = 1.0000
DL = 0.3392
BEC = 4.395

Weight: <None>
Min Conc: <None>

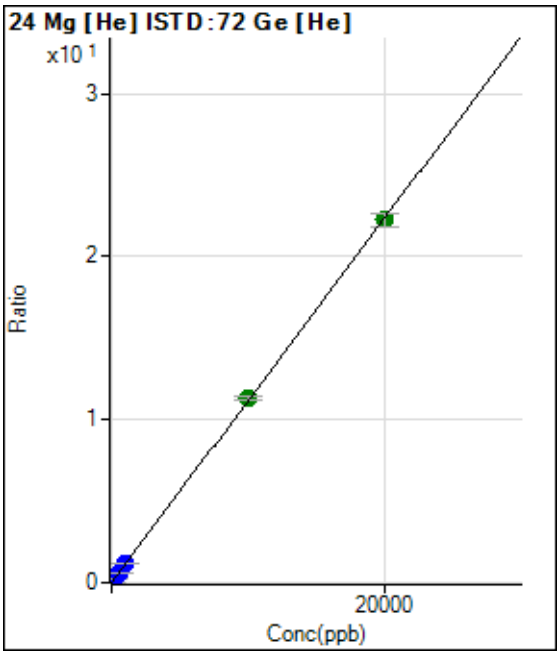


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120607.12	0.3031	P	1.3
2	☐	200.000	198.684	273442.08	0.6748	P	1.2
3	☐	500.000	514.066	502795.01	1.2649	P	1.8
4	☐	1000.000	1011.833	876442.41	2.1963	A	1.3
5	☐	10000.000	10012.505	7592087.39	19.0371	A	1.4
6	☐	20000.000	19992.818	15007547.69	37.7109	A	3.4

y = 0.0019 * x + 0.3031
R = 1.0000
DL = 6.48
BEC = 162

Weight: <None>
Min Conc: <None>

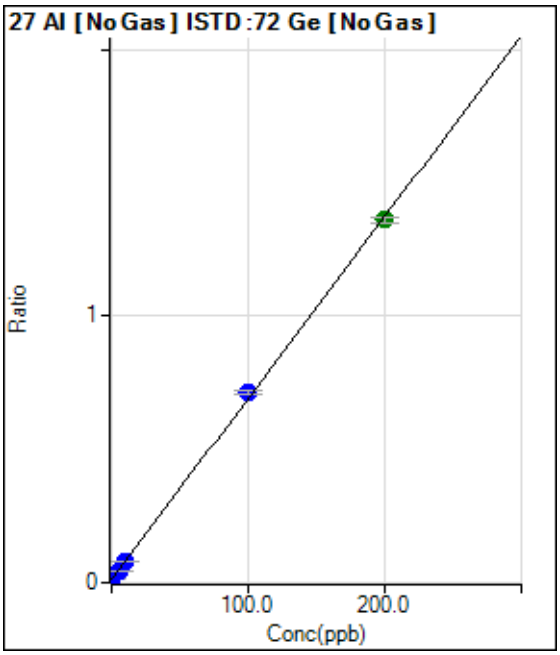
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.34	0.0010	P	13.3
2	☐	200.000	203.686	92577.85	0.2285	P	0.9
3	☐	500.000	519.138	230862.05	0.5808	P	2.7
4	☐	1000.000	1027.525	458375.80	1.1487	P	1.6
5	☐	10000.000	10166.008	4528705.77	11.3559	A	2.5
6	☐	20000.000	19915.105	8850810.28	22.2451	A	3.9

y = 0.0011 * x + 9.6416E-004
R = 1.0000
DL = 0.3446
BEC = 0.8632

Weight: <None>
Min Conc: <None>

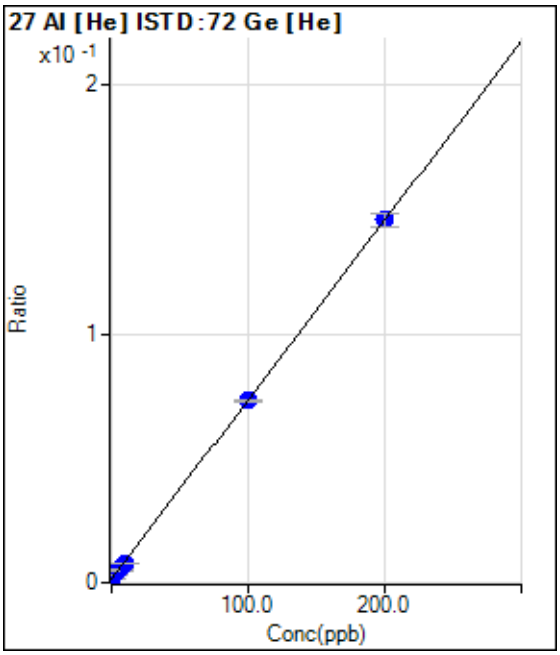


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11645.05	0.0114	P	2.3
2	☐	2.000	2.172	27153.58	0.0261	P	1.7
3	☐	5.000	4.746	45522.25	0.0436	P	4.3
4	☐	10.000	10.118	82863.48	0.0801	P	3.2
5	☐	100.000	103.162	720914.91	0.7127	P	1.4
6	☐	200.000	198.418	1377274.72	1.3602	A	1.9

y = 0.0068 * x + 0.0114
R = 0.9998
DL = 0.1145
BEC = 1.671

Weight: <None>
Min Conc: <None>

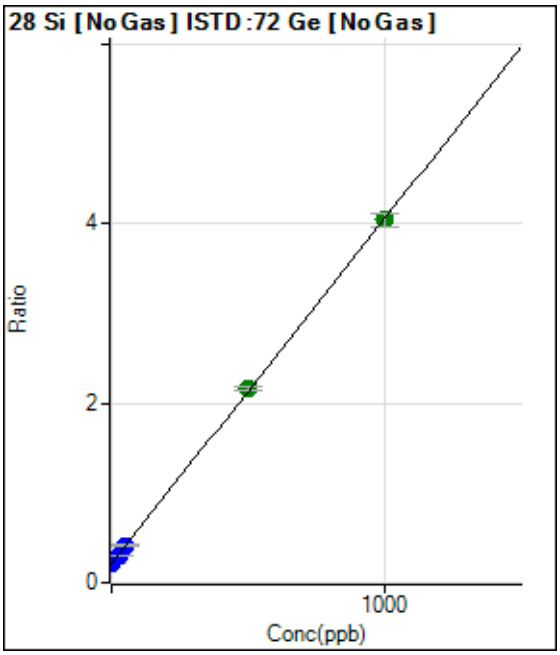
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	580.02	0.0015	P	15.4
2	☐	2.000	2.068	1193.41	0.0029	P	2.0
3	☐	5.000	5.013	2013.52	0.0051	P	3.8
4	☐	10.000	8.939	3150.41	0.0079	P	4.5
5	☐	100.000	99.428	29134.39	0.0731	P	0.9
6	☐	200.000	200.338	57984.84	0.1457	P	3.6

y = 7.2013E-004 * x + 0.0015
R = 1.0000
DL = 0.9355
BEC = 2.022

Weight: <None>
Min Conc: <None>

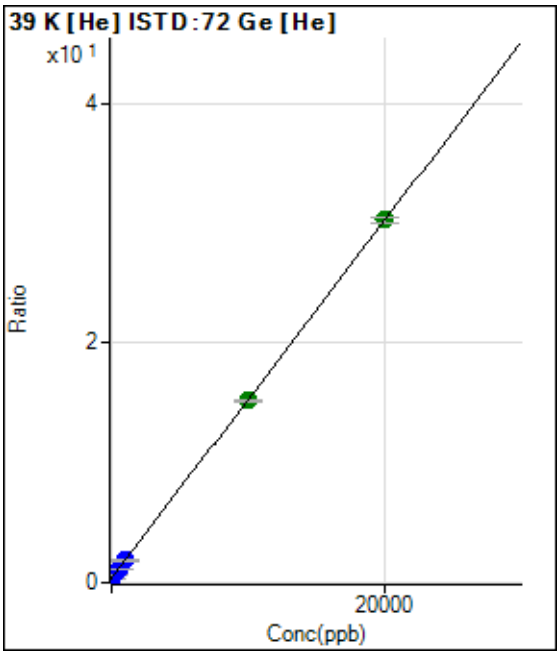


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220607.76	0.2153	P	2.7
2	☐	10.000	9.704	262424.49	0.2525	P	1.7
3	☐	25.000	23.124	317356.06	0.3040	P	2.4
4	☐	50.000	52.645	431147.43	0.4173	P	6.9
5	☐	500.000	505.618	2180627.26	2.1554	A	2.1
6	☐	1000.000	997.109	4089400.04	4.0413	A	3.6

y = 0.0038 * x + 0.2153
R = 1.0000
DL = 4.552
BEC = 56.1

Weight: <None>
Min Conc: <None>

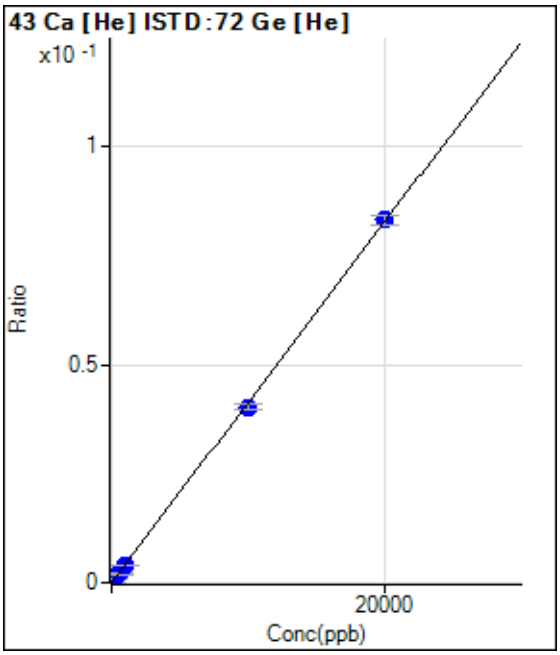
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	145257.51	0.3650	P	1.3
2	☐	200.000	189.866	262664.20	0.6482	P	1.9
3	☐	500.000	499.165	441044.43	1.1096	P	2.7
4	☐	1000.000	994.773	737822.25	1.8489	P	0.7
5	☐	10000.000	9925.446	6049972.62	15.1705	A	1.1
6	☐	20000.000	20037.661	12043175.65	30.2546	A	1.9

y = 0.0015 * x + 0.3650
R = 1.0000
DL = 9.587
BEC = 244.7

Weight: <None>
Min Conc: <None>

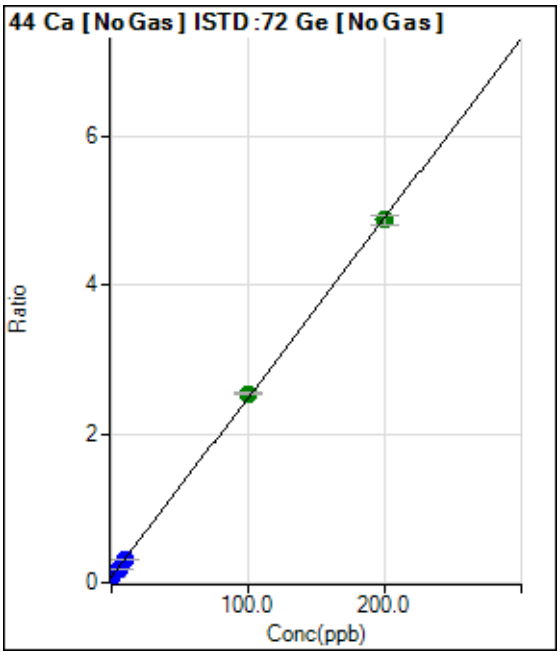


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	115.3
2	☐	200.000	198.699	346.68	0.0009	P	33.7
3	☐	500.000	488.781	816.71	0.0021	P	13.7
4	☐	1000.000	957.598	1593.46	0.0040	P	6.2
5	☐	10000.000	9742.369	16079.64	0.0403	P	3.0
6	☐	20000.000	20131.229	33153.80	0.0833	P	2.5

y = 4.1354E-006 * x + 3.3674E-005
R = 0.9999
DL = 28.18
BEC = 8.143

Weight: <None>
Min Conc: <None>

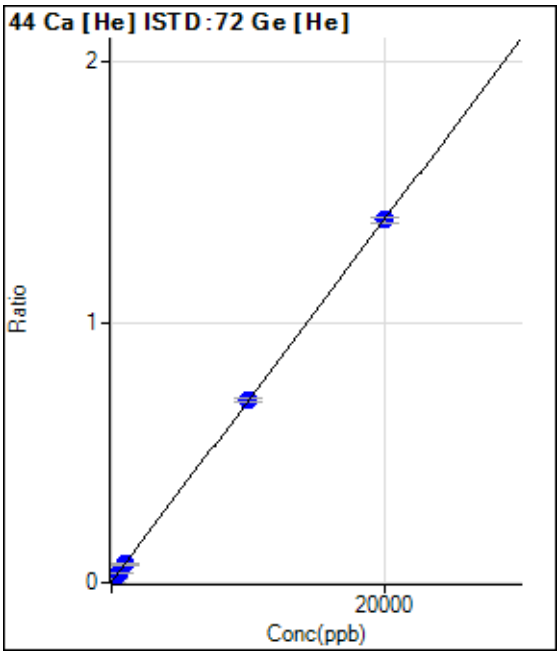
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78369.23	0.0765	P	2.4
2	☐	2.000	1.896	127095.78	0.1223	P	1.8
3	☐	5.000	4.757	199795.70	0.1914	P	2.5
4	☐	10.000	9.919	326859.46	0.3161	P	3.2
5	☐	100.000	102.106	2572950.27	2.5435	A	1.5
6	☐	200.000	198.958	4942515.14	4.8835	A	3.0

y = 0.0242 * x + 0.0765
R = 0.9999
DL = 0.2274
BEC = 3.165

Weight: <None>
Min Conc: <None>

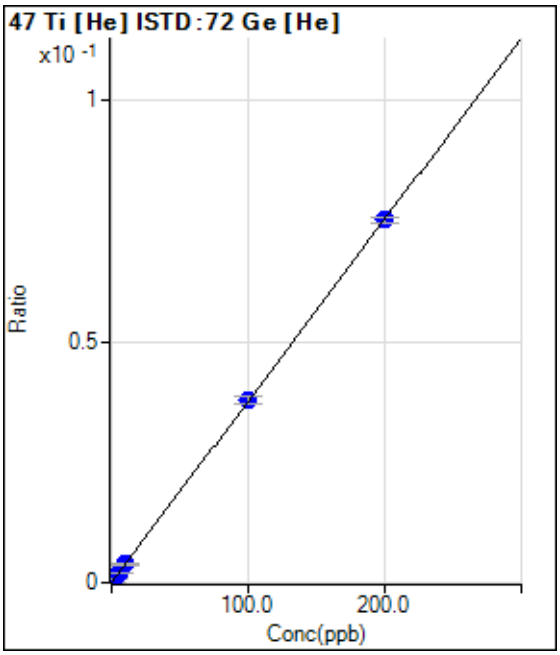


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1223.41	0.0031	P	4.0
2	☐	200.000	181.176	6358.25	0.0157	P	2.1
3	☐	500.000	492.944	14868.26	0.0374	P	1.4
4	☐	1000.000	976.881	28372.99	0.0711	P	3.2
5	☐	10000.000	10041.628	280115.36	0.7024	P	1.7
6	☐	20000.000	19980.706	555137.19	1.3946	P	1.5

y = 6.9641E-005 * x + 0.0031
R = 1.0000
DL = 5.236
BEC = 44.13

Weight: <None>
Min Conc: <None>

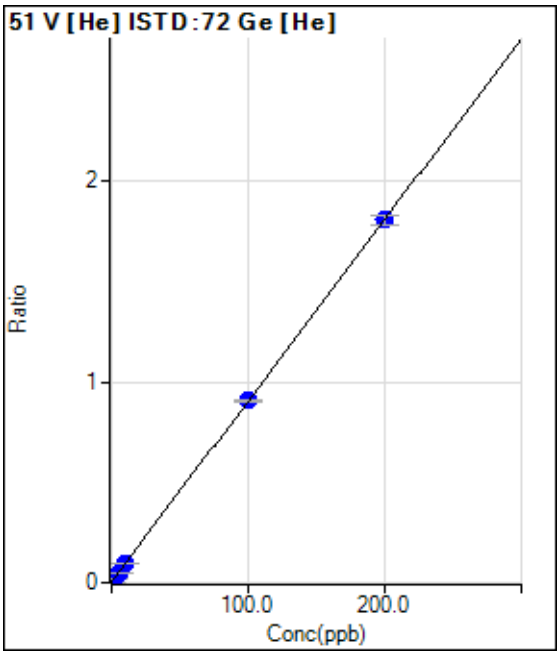
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.878	293.34	0.0007	P	28.8
3	☐	5.000	5.371	810.04	0.0020	P	13.0
4	☐	10.000	10.179	1536.78	0.0038	P	11.4
5	☐	100.000	100.222	15055.17	0.0377	P	4.3
6	☐	200.000	199.872	29959.85	0.0753	P	1.6

y = 3.7649E-004 * x + 1.6569E-005
R = 1.0000
DL = 0.2287
BEC = 0.04401

Weight: <None>
Min Conc: <None>

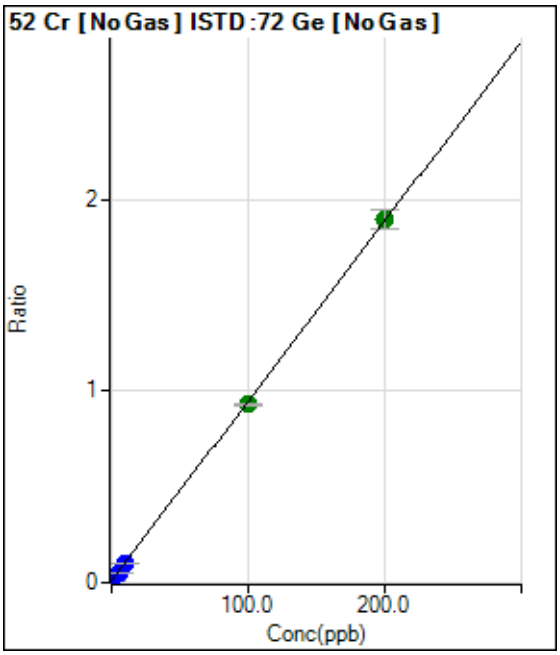


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1601.22	0.0040	P	4.7
2	☐	2.000	1.895	8558.27	0.0211	P	1.3
3	☐	5.000	4.757	18657.19	0.0469	P	3.6
4	☐	10.000	9.841	37031.12	0.0928	P	1.9
5	☐	100.000	100.097	361722.27	0.9070	P	0.4
6	☐	200.000	199.967	719607.82	1.8080	P	2.3

y = 0.0090 * x + 0.0040
R = 1.0000
DL = 0.06341
BEC = 0.4461

Weight: <None>
Min Conc: <None>

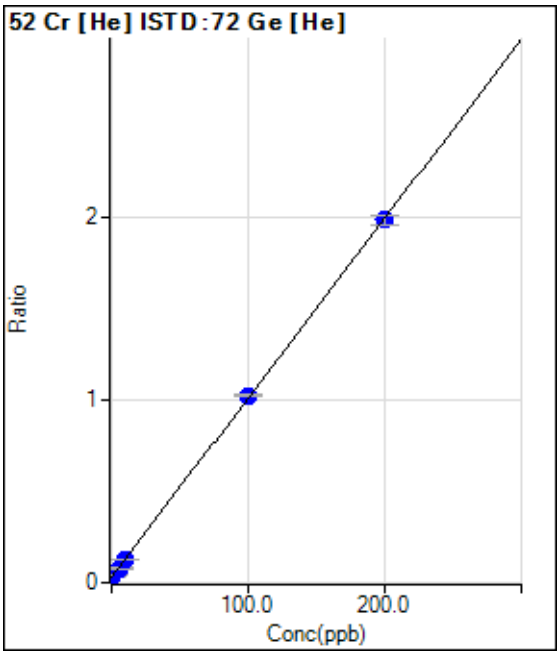
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10244.03	0.0100	P	6.0
2	☐	2.000	1.830	28239.66	0.0272	P	6.3
3	☐	5.000	4.588	55382.55	0.0531	P	2.3
4	☐	10.000	9.991	107286.46	0.1038	P	3.2
5	☐	100.000	98.281	943155.22	0.9323	A	1.0
6	☐	200.000	200.872	1916906.38	1.8951	A	5.4

y = 0.0094 * x + 0.0100
R = 0.9999
DL = 0.1914
BEC = 1.066

Weight: <None>
Min Conc: <None>

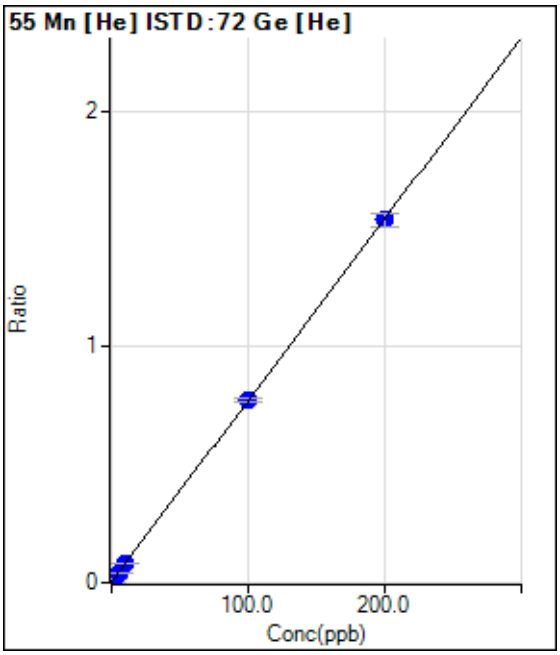


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11965.39	0.0301	P	1.7
2	☐	2.000	1.785	19290.69	0.0476	P	2.2
3	☐	5.000	4.918	31159.28	0.0784	P	2.2
4	☐	10.000	9.990	51169.44	0.1282	P	1.4
5	☐	100.000	101.342	409088.32	1.0258	P	0.8
6	☐	200.000	199.334	791460.93	1.9886	P	2.4

y = 0.0098 * x + 0.0301
R = 1.0000
DL = 0.1548
BEC = 3.06

Weight: <None>
Min Conc: <None>

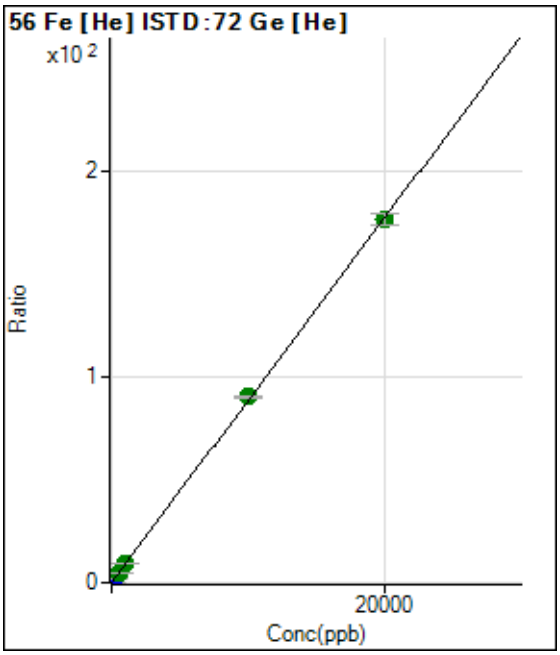
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1443.44	0.0036	P	4.1
2	☐	2.000	1.829	7172.01	0.0177	P	6.0
3	☐	5.000	4.695	15799.45	0.0397	P	1.6
4	☐	10.000	9.817	31586.99	0.0792	P	3.7
5	☐	100.000	100.791	310713.22	0.7791	P	2.1
6	☐	200.000	199.623	612578.25	1.5395	P	3.5

y = 0.0077 * x + 0.0036
R = 1.0000
DL = 0.05838
BEC = 0.4713

Weight: <None>
Min Conc: <None>

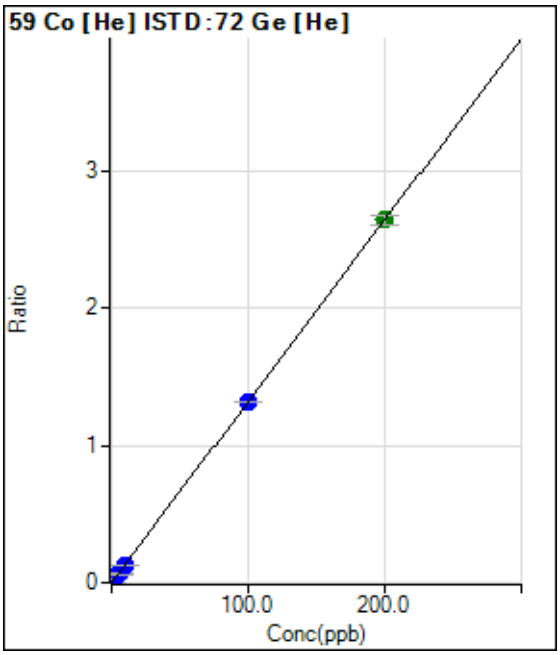


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20635.91	0.0519	P	1.8
2	☐	200.000	195.784	724520.56	1.7880	P	1.5
3	☐	500.000	501.621	1788856.80	4.5001	A	0.5
4	☐	1000.000	1001.215	3563834.42	8.9304	A	0.3
5	☐	10000.000	10202.604	36101697.80	90.5262	A	1.1
6	☐	20000.000	19898.639	70241248.95	176.5084	A	3.1

y = 0.0089 * x + 0.0519
R = 0.9999
DL = 0.315
BEC = 5.848

Weight: <None>
Min Conc: <None>

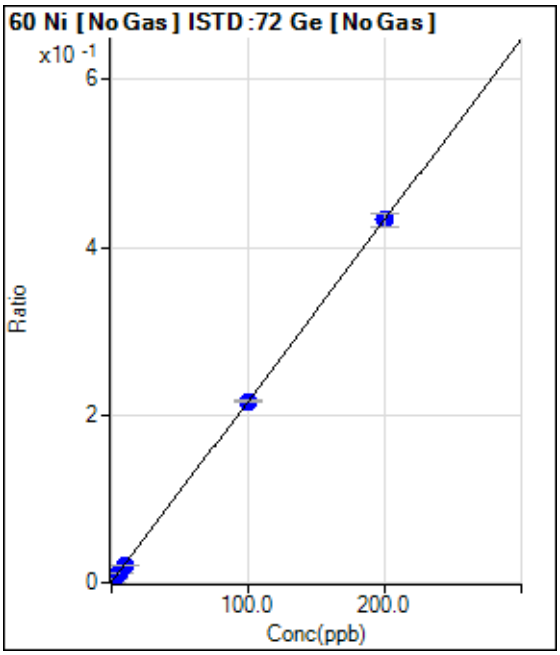
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0002	P	56.1
2	☐	2.000	1.954	10540.98	0.0260	P	2.7
3	☐	5.000	4.764	25106.76	0.0632	P	1.6
4	☐	10.000	9.734	51420.67	0.1289	P	0.3
5	☐	100.000	99.706	525684.47	1.3182	P	0.8
6	☐	200.000	200.167	1053160.43	2.6462	A	2.3

y = 0.0132 * x + 1.8489E-004
R = 1.0000
DL = 0.02354
BEC = 0.01399

Weight: <None>
Min Conc: <None>

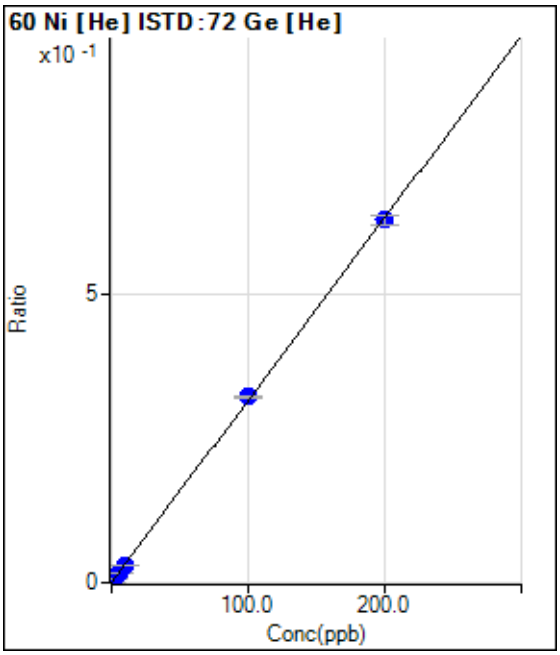


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	420.01	0.0004	P	12.4
2	☐	2.000	2.046	5017.71	0.0048	P	3.1
3	☐	5.000	4.973	11648.53	0.0112	P	5.4
4	☐	10.000	9.746	22215.09	0.0215	P	2.4
5	☐	100.000	99.923	218791.99	0.2163	P	1.0
6	☐	200.000	200.052	437749.97	0.4326	P	3.5

y = 0.0022 * x + 4.0903E-004
R = 1.0000
DL = 0.07055
BEC = 0.1893

Weight: <None>
Min Conc: <None>

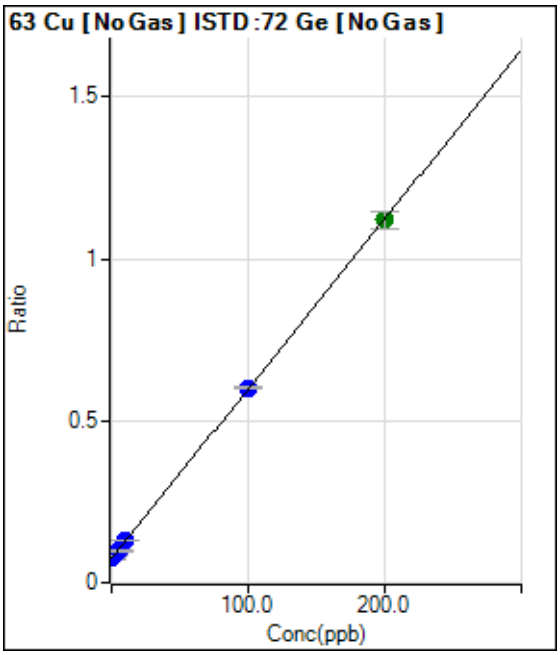
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0003	P	27.1
2	☐	2.000	1.866	2500.28	0.0062	P	2.4
3	☐	5.000	5.082	6494.99	0.0163	P	4.6
4	☐	10.000	9.768	12432.55	0.0312	P	1.8
5	☐	100.000	102.018	128759.27	0.3229	P	1.0
6	☐	200.000	199.002	250540.70	0.6295	P	2.7

y = 0.0032 * x + 2.6808E-004
R = 0.9999
DL = 0.06904
BEC = 0.08478

Weight: <None>
Min Conc: <None>

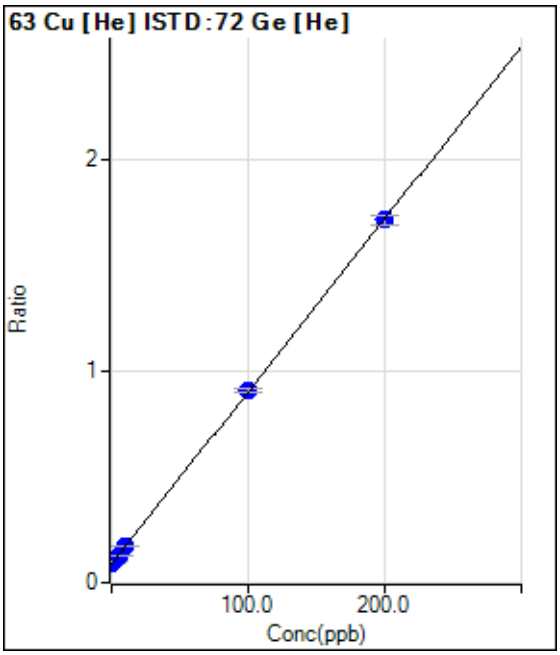


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76380.44	0.0745	P	1.9
2	☐	2.000	1.826	87403.00	0.0841	P	1.3
3	☐	5.000	4.617	103021.14	0.0987	P	3.7
4	☐	10.000	10.760	135403.62	0.1309	P	1.9
5	☐	100.000	100.744	609545.09	0.6026	P	1.0
6	☐	200.000	199.602	1133724.75	1.1207	A	5.0

y = 0.0052 * x + 0.0745
R = 1.0000
DL = 0.7898
BEC = 14.22

Weight: <None>
Min Conc: <None>

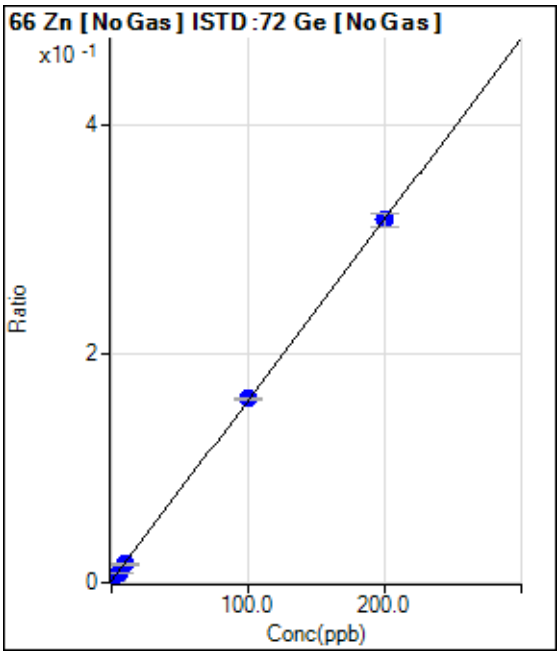
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34998.63	0.0879	P	1.7
2	☐	2.000	1.733	41363.12	0.1021	P	2.9
3	☐	5.000	5.143	51634.85	0.1299	P	0.5
4	☐	10.000	10.288	68572.97	0.1719	P	2.9
5	☐	100.000	100.871	363150.89	0.9106	P	1.3
6	☐	200.000	199.549	682696.63	1.7154	P	2.7

y = 0.0082 * x + 0.0879
R = 1.0000
DL = 0.5649
BEC = 10.78

Weight: <None>
Min Conc: <None>

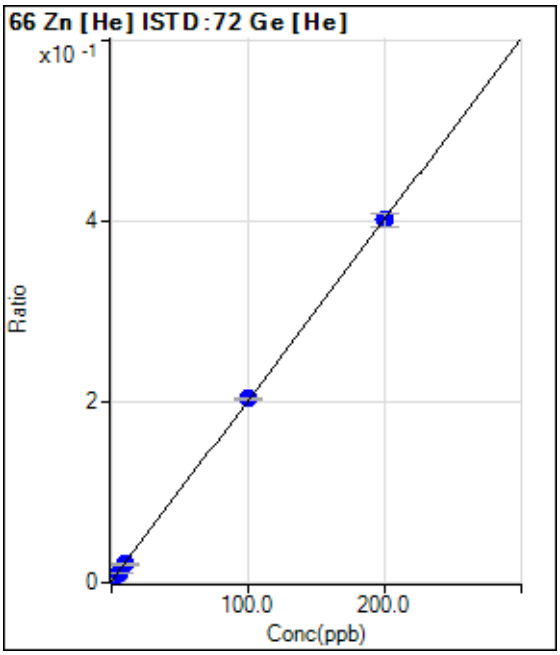


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1526.79	0.0015	P	6.0
2	☐	2.000	1.763	4440.81	0.0043	P	1.6
3	☐	5.000	4.629	9183.26	0.0088	P	1.4
4	☐	10.000	9.386	16847.50	0.0163	P	4.5
5	☐	100.000	100.755	162308.09	0.1604	P	1.1
6	☐	200.000	199.665	320266.99	0.3165	P	3.4

y = 0.0016 * x + 0.0015
R = 1.0000
DL = 0.1698
BEC = 0.9446

Weight: <None>
Min Conc: <None>

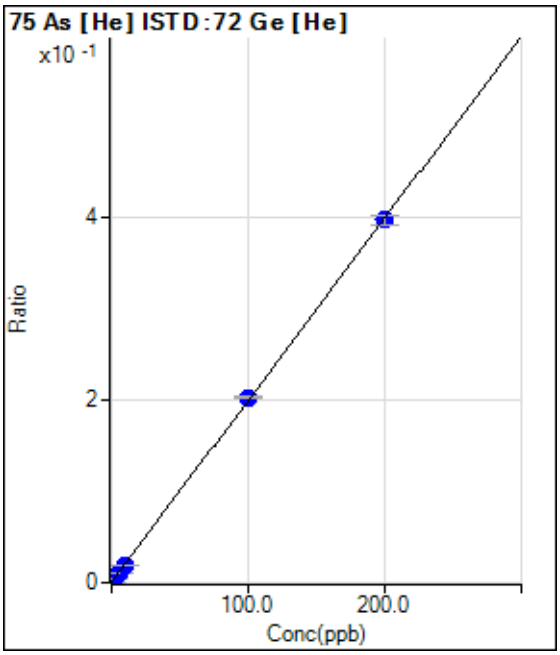
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	696.70	0.0018	P	9.9
2	☑	2.000		2080.19	0.0051	P	2.0
3	☐	5.000	4.801	4517.51	0.0114	P	0.5
4	☐	10.000	9.304	8132.59	0.0204	P	4.8
5	☐	100.000	100.674	81088.96	0.2033	P	2.0
6	☐	200.000	199.703	159817.33	0.4016	P	3.4

y = 0.0020 * x + 0.0018
R = 1.0000
DL = 0.261
BEC = 0.8746

Weight: <None>
Min Conc: <None>

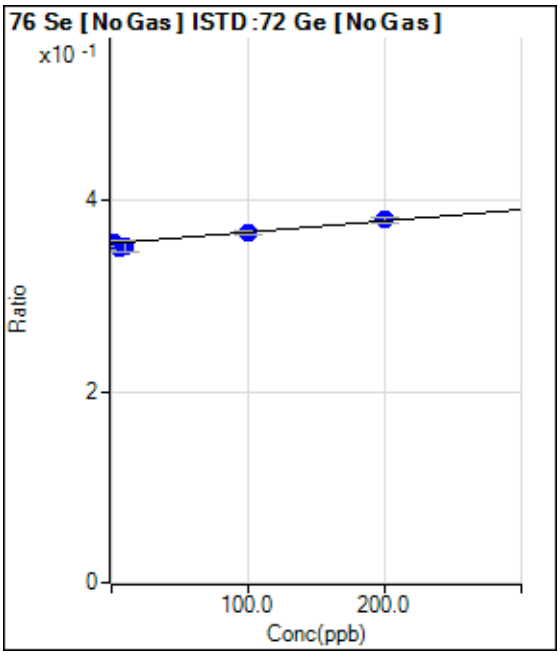


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	184.45	0.0005	P	3.9
2	☐	2.000	1.997	1795.68	0.0044	P	2.0
3	☐	5.000	4.846	4011.73	0.0101	P	2.8
4	☐	10.000	9.572	7775.62	0.0195	P	2.4
5	☐	100.000	101.575	80684.25	0.2023	P	0.9
6	☐	200.000	199.238	157758.30	0.3964	P	2.6

y = 0.0020 * x + 4.6343E-004
R = 1.0000
DL = 0.02748
BEC = 0.2332

Weight: <None>
Min Conc: <None>

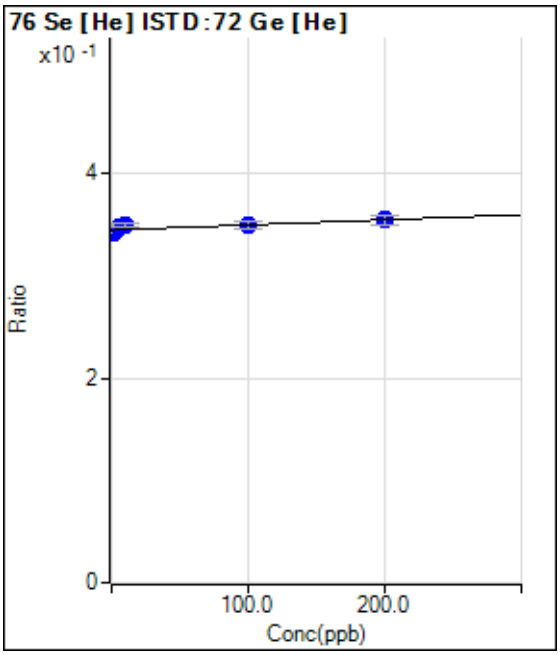
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	364214.67	0.3553	P	1.0
2	☐	2.000	7.577	370231.27	0.3562	P	1.4
3	☐	5.000	-43.833	365572.44	0.3501	P	1.2
4	☐	10.000	-27.204	364050.87	0.3521	P	3.7
5	☐	100.000	89.358	370090.69	0.3658	P	1.1
6	☐	200.000	208.346	384509.98	0.3798	P	1.8

y = 1.1770E-004 * x + 0.3553
R = 0.9744
DL = 94.21
BEC = 3019

Weight: <None>
Min Conc: <None>

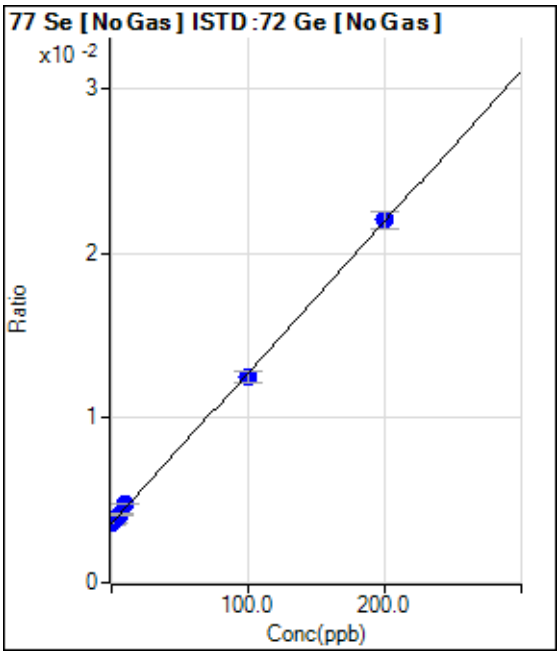


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	137221.39	0.3448	P	0.7
2	☐	2.000	-48.545	138728.85	0.3424	P	0.3
3	☐	5.000	73.867	138538.01	0.3485	P	0.3
4	☐	10.000	91.881	139436.80	0.3494	P	1.2
5	☐	100.000	97.362	139467.46	0.3497	P	2.1
6	☐	200.000	196.009	141141.71	0.3547	P	2.8

y = 5.0275E-005 * x + 0.3448
R = 0.8197
DL = 145.3
BEC = 6858

Weight: <None>
Min Conc: <None>

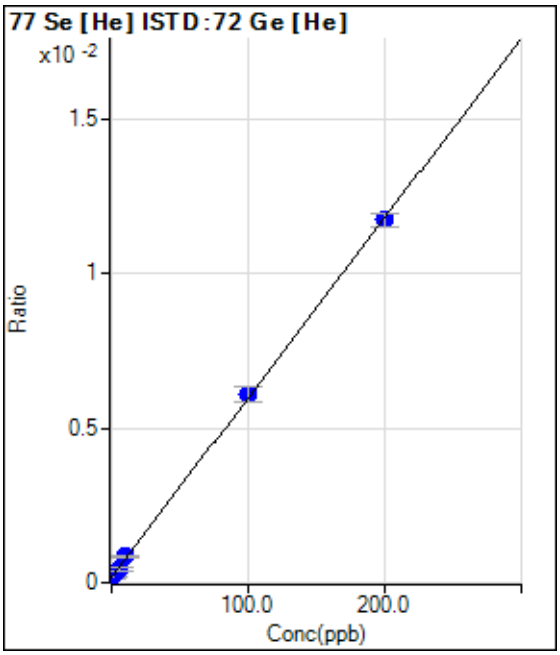
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3693.90	0.0036	P	6.9
2	☐	2.000	1.321	3870.63	0.0037	P	4.4
3	☐	5.000	5.918	4330.77	0.0041	P	1.9
4	☐	10.000	12.955	4957.67	0.0048	P	2.1
5	☐	100.000	97.509	12696.12	0.0126	P	5.5
6	☐	200.000	201.082	22315.35	0.0221	P	4.7

y = 9.1773E-005 * x + 0.0036
R = 0.9997
DL = 8.08
BEC = 39.27

Weight: <None>
Min Conc: <None>

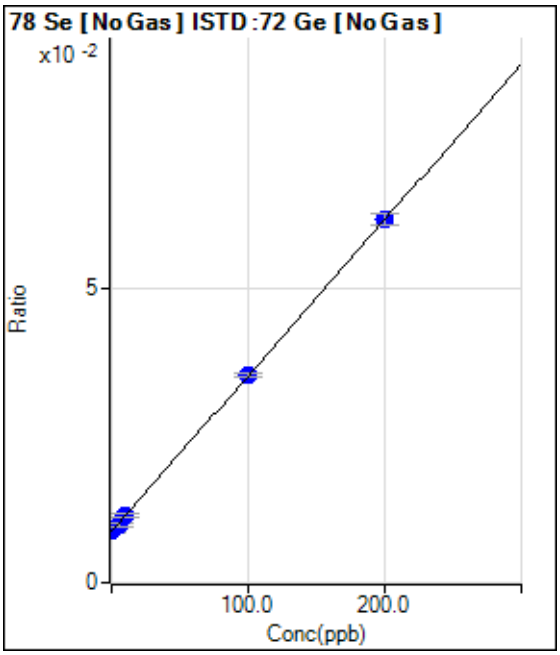


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0002	P	38.7
2	☐	2.000	1.216	100.00	0.0002	P	53.0
3	☐	5.000	4.330	170.00	0.0004	P	26.2
4	☐	10.000	11.478	336.68	0.0008	P	1.1
5	☐	100.000	101.903	2433.60	0.0061	P	9.1
6	☐	200.000	198.999	4674.25	0.0117	P	3.8

y = 5.8145E-005 * x + 1.7625E-004
R = 0.9999
DL = 3.521
BEC = 3.031

Weight: <None>
Min Conc: <None>

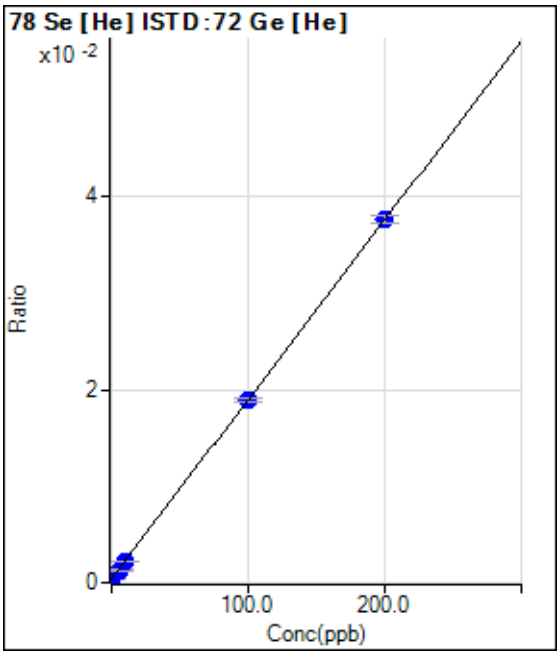
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8919.76	0.0087	P	3.5
2	☐	2.000	2.190	9646.92	0.0093	P	1.5
3	☐	5.000	4.076	10204.01	0.0098	P	5.9
4	☐	10.000	10.078	11745.32	0.0114	P	6.5
5	☐	100.000	100.039	35560.71	0.0352	P	1.7
6	☐	200.000	199.998	62321.19	0.0616	P	3.1

y = 2.6438E-004 * x + 0.0087
R = 1.0000
DL = 3.487
BEC = 32.92

Weight: <None>
Min Conc: <None>

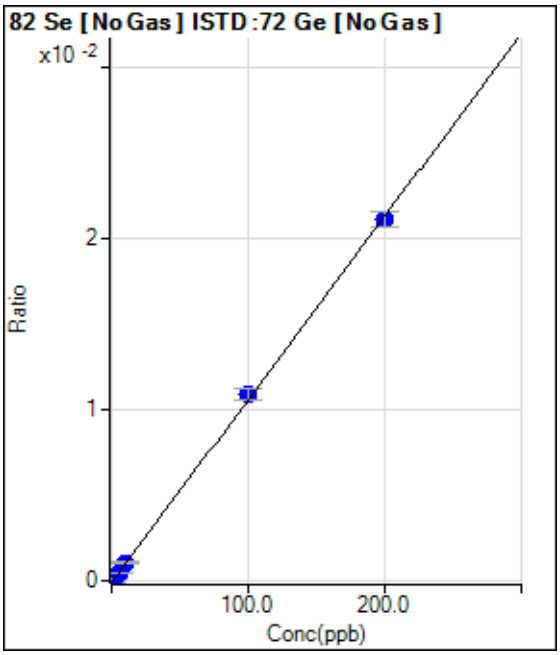


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.67	0.0004	P	0.8
2	☐	2.000	1.901	306.67	0.0008	P	8.5
3	☐	5.000	4.790	514.01	0.0013	P	6.0
4	☐	10.000	9.891	894.03	0.0022	P	1.1
5	☐	100.000	99.616	7537.46	0.0189	P	1.7
6	☐	200.000	200.204	14956.99	0.0376	P	2.2

y = 1.8569E-004 * x + 4.0370E-004
R = 1.0000
DL = 0.0553
BEC = 2.174

Weight: <None>
Min Conc: <None>

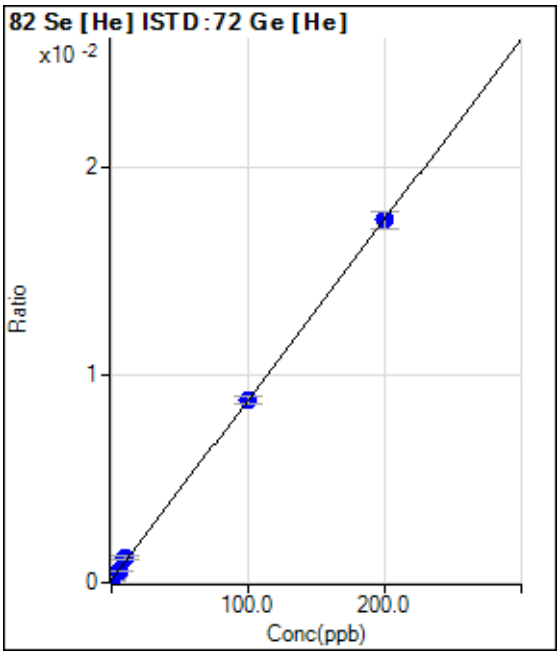
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-91.98	-0.0001	P	-38.5
2	☐	2.000	2.356	167.96	0.0002	P	48.0
3	☐	5.000	5.254	491.14	0.0005	P	21.3
4	☐	10.000	10.825	1101.44	0.0011	P	11.7
5	☐	100.000	102.853	11016.33	0.0109	P	5.7
6	☐	200.000	198.522	21355.80	0.0211	P	4.1

y = 1.0677E-004 * x - 8.9468E-005
R = 0.9999
DL = 0.9686
BEC = -0.838

Weight: <None>
Min Conc: <None>

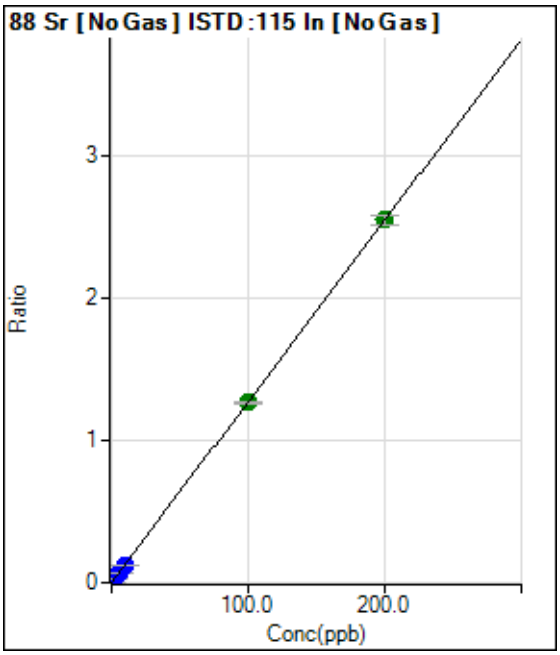


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	72.2
2	☐	2.000	2.440	136.67	0.0003	P	8.7
3	☐	5.000	4.833	216.68	0.0005	P	9.6
4	☐	10.000	12.127	470.02	0.0012	P	13.7
5	☐	100.000	100.137	3517.19	0.0088	P	4.4
6	☐	200.000	199.825	6955.26	0.0175	P	4.4

y = 8.6815E-005 * x + 1.2551E-004
R = 0.9999
DL = 3.132
BEC = 1.446

Weight: <None>
Min Conc: <None>

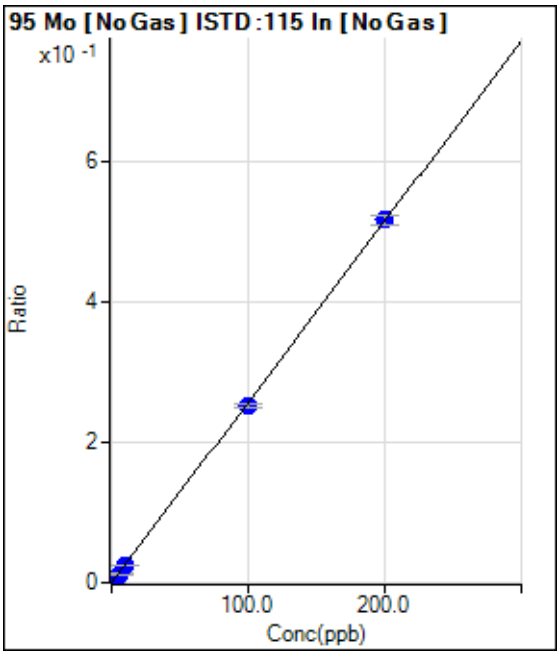
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.68	0.0005	P	12.0
2	☐	2.000	1.932	24953.62	0.0251	P	4.7
3	☐	5.000	4.790	60138.82	0.0615	P	1.0
4	☐	10.000	9.760	122386.85	0.1248	P	3.5
5	☐	100.000	99.289	1236923.60	1.2651	A	1.5
6	☐	200.000	200.374	2444296.94	2.5527	A	2.5

y = 0.0127 * x + 4.7828E-004
R = 1.0000
DL = 0.01351
BEC = 0.03755

Weight: <None>
Min Conc: <None>

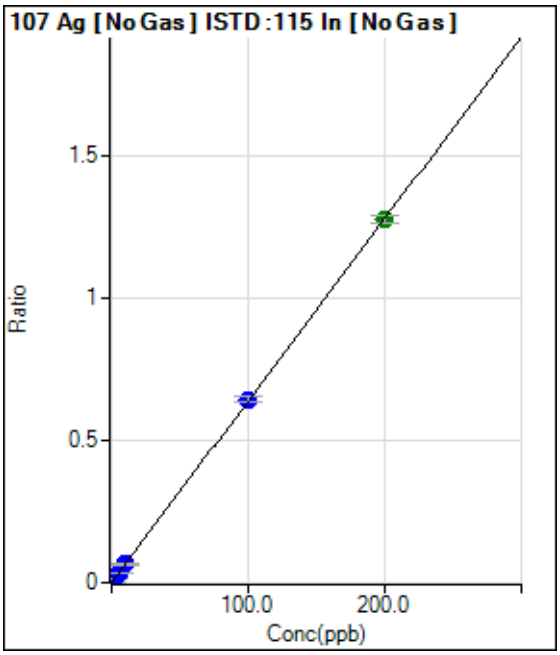


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	41.9
2	☐	2.000	1.907	4907.66	0.0049	P	9.7
3	☐	5.000	4.731	11932.25	0.0122	P	2.9
4	☐	10.000	9.512	24028.69	0.0245	P	5.5
5	☐	100.000	98.216	247118.67	0.2528	P	2.7
6	☐	200.000	200.924	495148.17	0.5171	P	2.5

y = 0.0026 * x + 2.7201E-005
R = 0.9999
DL = 0.01328
BEC = 0.01057

Weight: <None>
Min Conc: <None>

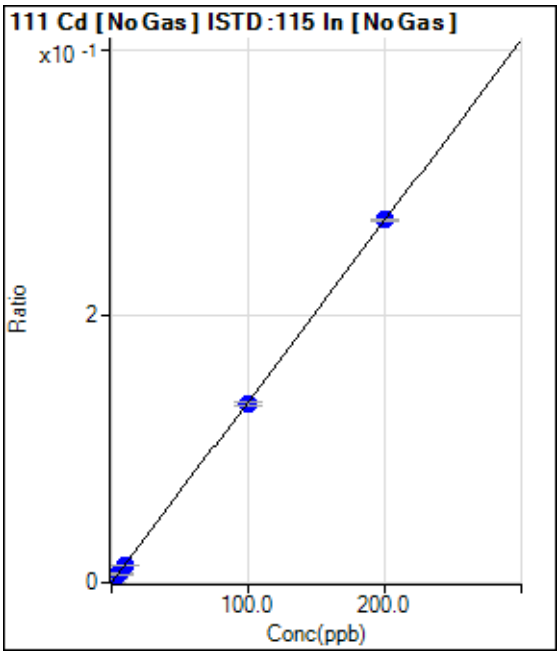
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	56.3
2	☐	2.000	1.972	12542.87	0.0126	P	2.5
3	☐	5.000	4.913	30659.41	0.0314	P	4.0
4	☐	10.000	10.099	63184.44	0.0644	P	3.2
5	☐	100.000	100.902	628946.62	0.6434	P	2.5
6	☐	200.000	199.546	1218635.84	1.2723	A	2.3

y = 0.0064 * x + 3.0564E-005
R = 1.0000
DL = 0.008098
BEC = 0.004794

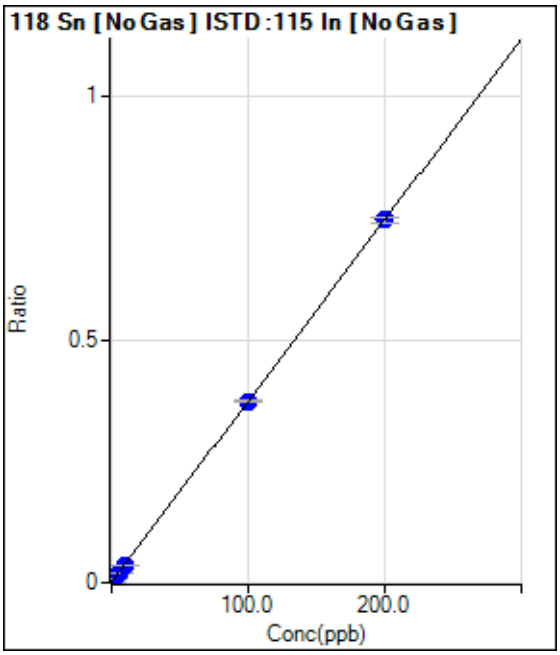
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	2.000	1.786	2416.94	0.0024	P	9.3
3	☐	5.000	4.840	6431.69	0.0066	P	5.9
4	☐	10.000	9.509	12676.38	0.0129	P	4.6
5	☐	100.000	99.053	131575.43	0.1346	P	1.5
6	☐	200.000	200.504	260912.42	0.2724	P	0.5

y = 0.0014 * x + 3.3905E-006
R = 1.0000
DL = 0.01297
BEC = 0.002496

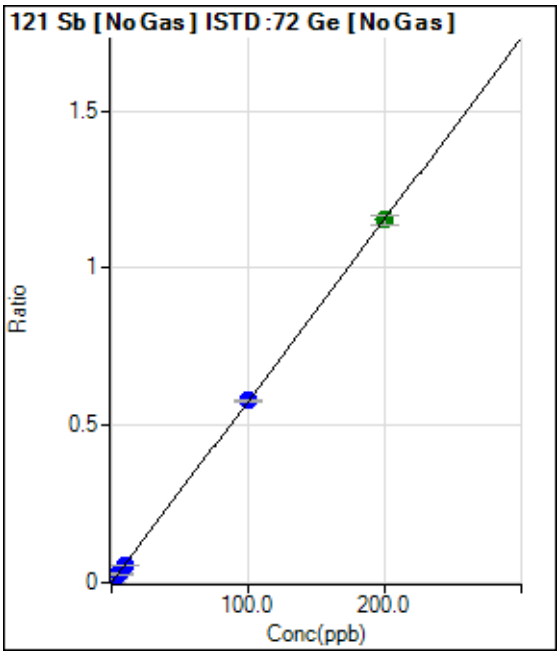
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	933.38	0.0010	P	9.0
2	☐	2.000	1.819	7689.07	0.0077	P	2.2
3	☐	5.000	4.744	18206.20	0.0186	P	5.8
4	☐	10.000	9.669	36244.02	0.0370	P	3.2
5	☐	100.000	99.794	364226.70	0.3725	P	1.2
6	☐	200.000	200.128	714471.79	0.7461	P	1.3

y = 0.0037 * x + 9.5475E-004
R = 1.0000
DL = 0.06922
BEC = 0.2564

Weight: <None>
Min Conc: <None>

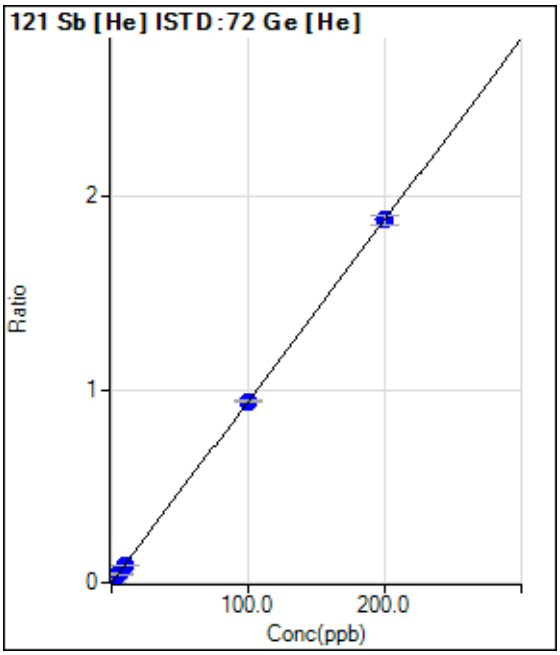


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173.34	0.0002	P	13.7
2	☐	2.000	1.895	11545.27	0.0111	P	4.8
3	☐	5.000	4.746	28772.06	0.0276	P	1.1
4	☐	10.000	9.668	57864.58	0.0560	P	3.4
5	☐	100.000	100.367	586130.77	0.5794	P	0.9
6	☐	200.000	199.840	1167465.06	1.1535	A	2.6

y = 0.0058 * x + 1.6935E-004
R = 1.0000
DL = 0.01207
BEC = 0.02934

Weight: <None>
Min Conc: <None>

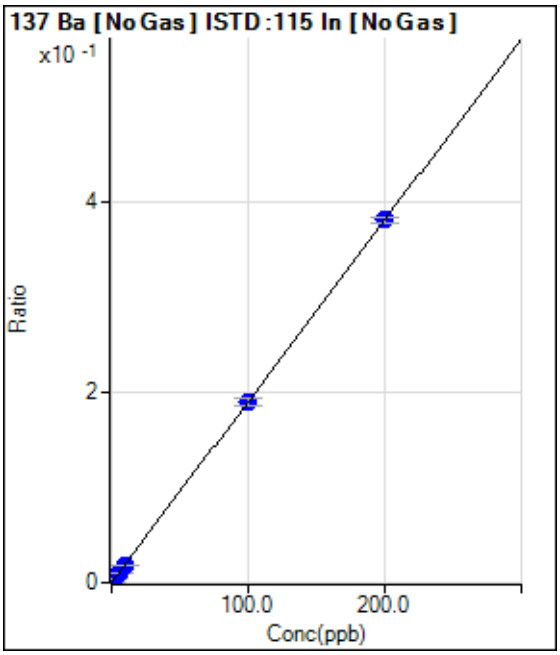
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.67	0.0002	P	43.7
2	☐	2.000	1.909	7358.84	0.0182	P	0.8
3	☐	5.000	4.776	17925.88	0.0451	P	5.6
4	☐	10.000	9.498	35705.80	0.0895	P	1.6
5	☐	100.000	99.925	374603.93	0.9393	P	0.8
6	☐	200.000	200.069	748396.42	1.8805	P	2.5

y = 0.0094 * x + 2.1774E-004
R = 1.0000
DL = 0.03038
BEC = 0.02317

Weight: <None>
Min Conc: <None>

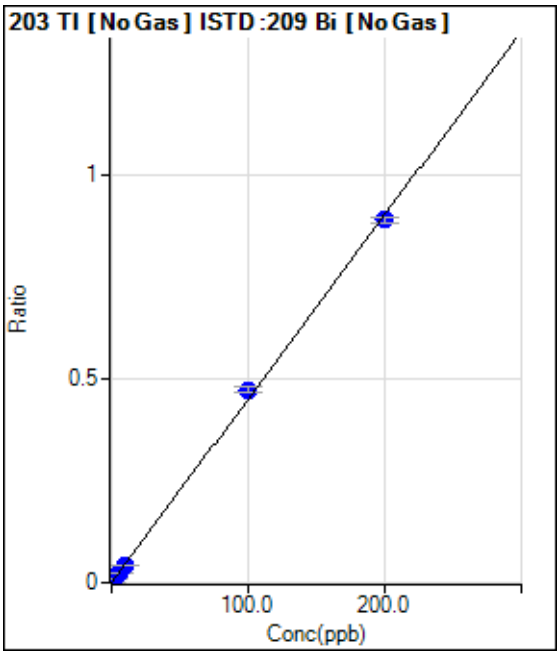


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0001	P	8.0
2	☐	2.000	2.059	4044.06	0.0041	P	2.4
3	☐	5.000	4.828	9133.43	0.0093	P	4.1
4	☐	10.000	9.832	18520.15	0.0189	P	2.2
5	☐	100.000	99.426	185340.80	0.1896	P	4.0
6	☐	200.000	200.299	365706.81	0.3819	P	1.4

y = 0.0019 * x + 1.3988E-004
R = 1.0000
DL = 0.01771
BEC = 0.07339

Weight: <None>
Min Conc: <None>

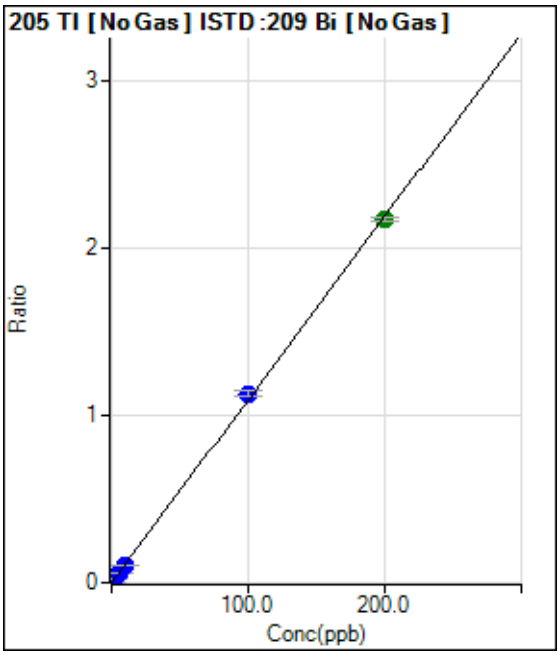
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0001	P	48.6
2	☐	2.000	1.887	6605.21	0.0086	P	7.4
3	☐	5.000	4.879	16888.34	0.0221	P	4.5
4	☐	10.000	9.720	34227.18	0.0439	P	1.7
5	☐	100.000	105.064	356094.73	0.4744	P	2.5
6	☐	200.000	197.486	664201.21	0.8917	P	1.8

y = 0.0045 * x + 5.1959E-005
R = 0.9995
DL = 0.01679
BEC = 0.01151

Weight: <None>
Min Conc: <None>

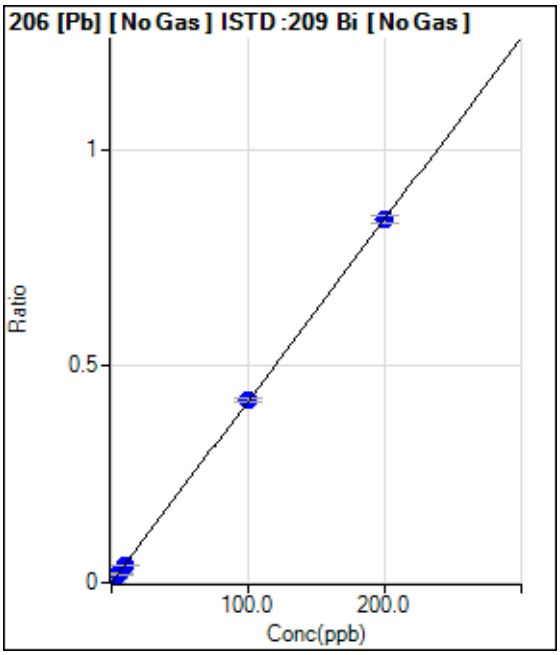


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	76.7
2	☐	2.000	1.945	16441.11	0.0213	P	3.6
3	☐	5.000	4.831	40445.98	0.0529	P	2.0
4	☐	10.000	9.725	82867.72	0.1064	P	1.4
5	☐	100.000	103.476	849097.15	1.1313	P	2.2
6	☐	200.000	198.281	1615020.24	2.1676	A	1.0

y = 0.0109 * x + 6.9493E-005
R = 0.9998
DL = 0.01462
BEC = 0.006357

Weight: <None>
Min Conc: <None>

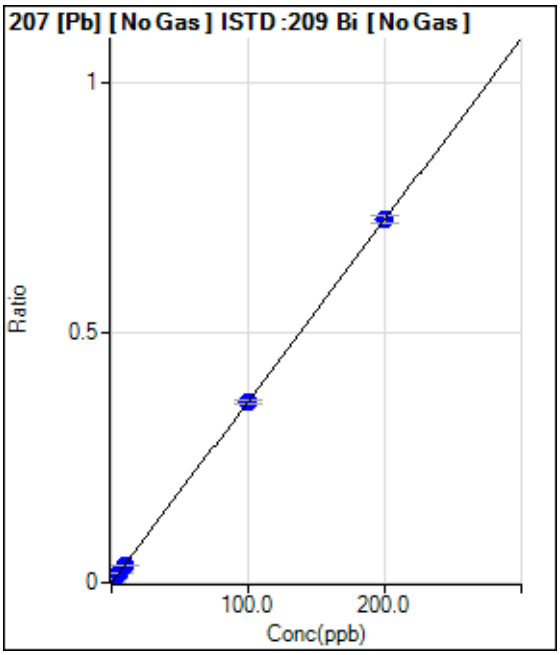
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0001	P	47.2
2	☐	2.000	1.938	6348.42	0.0082	P	4.7
3	☐	5.000	4.797	15479.86	0.0202	P	2.4
4	☐	10.000	9.676	31710.73	0.0407	P	3.5
5	☐	100.000	100.644	317217.98	0.4226	P	2.1
6	☐	200.000	199.700	624506.09	0.8385	P	2.1

y = 0.0042 * x + 9.5888E-005
R = 1.0000
DL = 0.03232
BEC = 0.02284

Weight: <None>
Min Conc: <None>

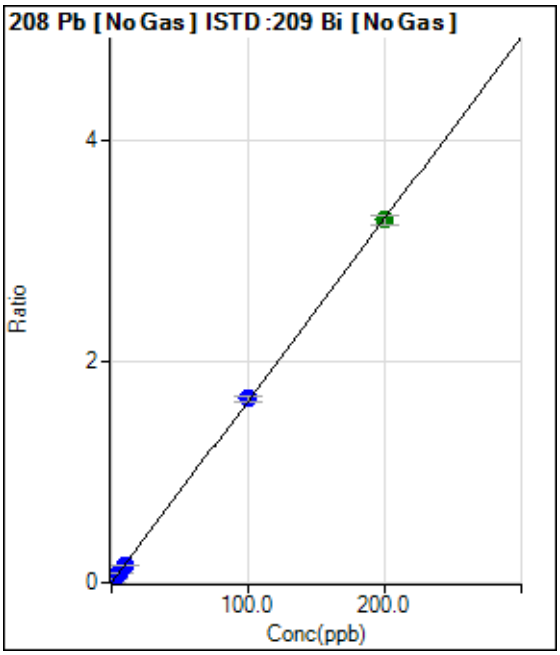


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	52.6
2	☐	2.000	1.954	5524.67	0.0072	P	1.1
3	☐	5.000	4.853	13520.93	0.0177	P	4.1
4	☐	10.000	9.684	27417.25	0.0352	P	5.1
5	☐	100.000	99.969	272294.37	0.3628	P	2.4
6	☐	200.000	200.035	540625.40	0.7258	P	2.1

y = 0.0036 * x + 7.3643E-005
R = 1.0000
DL = 0.03202
BEC = 0.0203

Weight: <None>
Min Conc: <None>

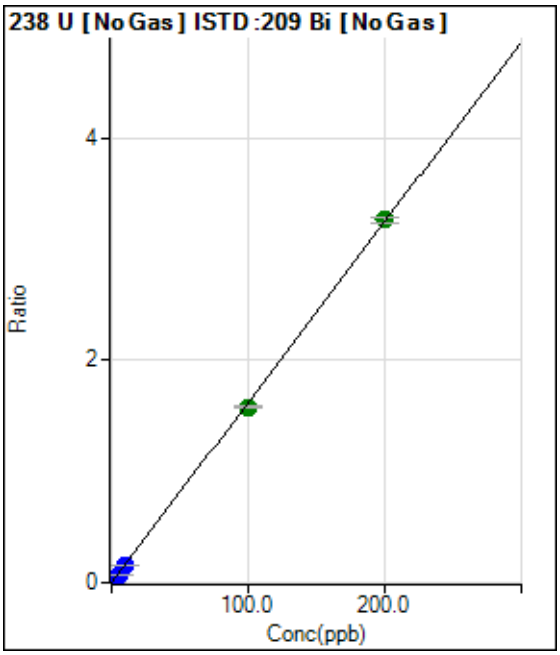
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	280.00	0.0004	P	23.5
2	☐	2.000	1.950	25030.30	0.0325	P	3.0
3	☐	5.000	4.825	61012.27	0.0798	P	1.4
4	☐	10.000	9.857	126640.80	0.1626	P	1.9
5	☐	100.000	101.029	1248113.41	1.6629	P	2.6
6	☐	200.000	199.498	2445675.06	3.2834	A	2.3

y = 0.0165 * x + 3.6557E-004
R = 1.0000
DL = 0.01568
BEC = 0.02221

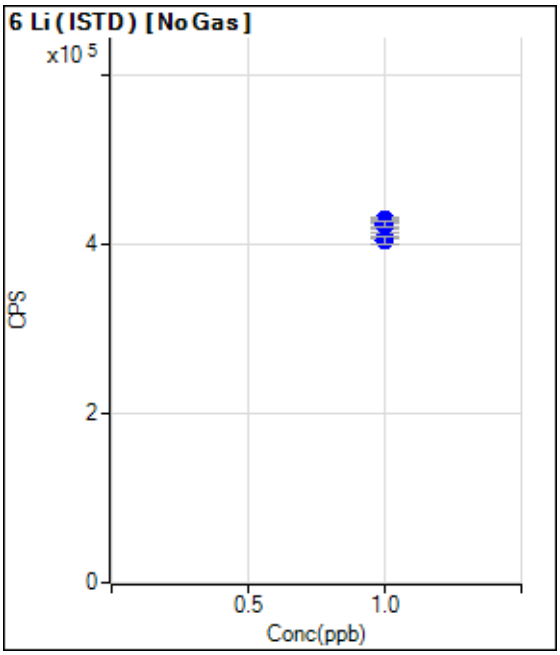
Weight: <None>
Min Conc: <None>



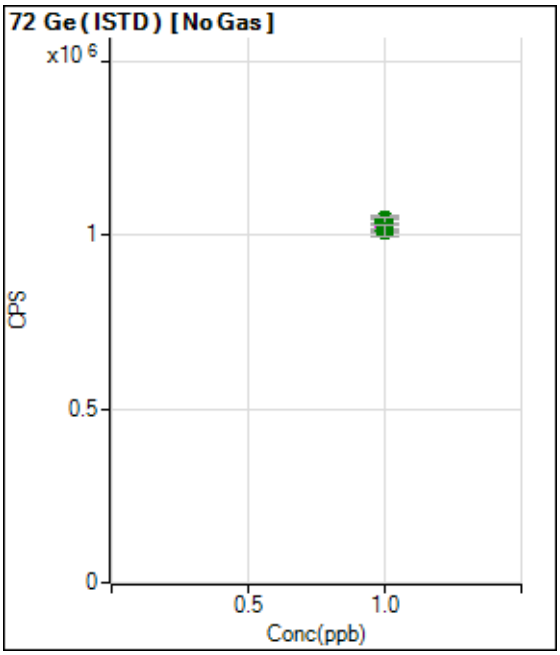
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	91.6
2	☐	2.000	1.855	23175.57	0.0301	P	3.4
3	☐	5.000	4.664	57783.27	0.0755	P	1.0
4	☐	10.000	9.279	117067.44	0.1503	P	1.3
5	☐	100.000	97.460	1184696.78	1.5782	A	1.1
6	☐	200.000	201.316	2428181.68	3.2600	A	1.5

y = 0.0162 * x + 2.1489E-005
R = 0.9999
DL = 0.003647
BEC = 0.001327

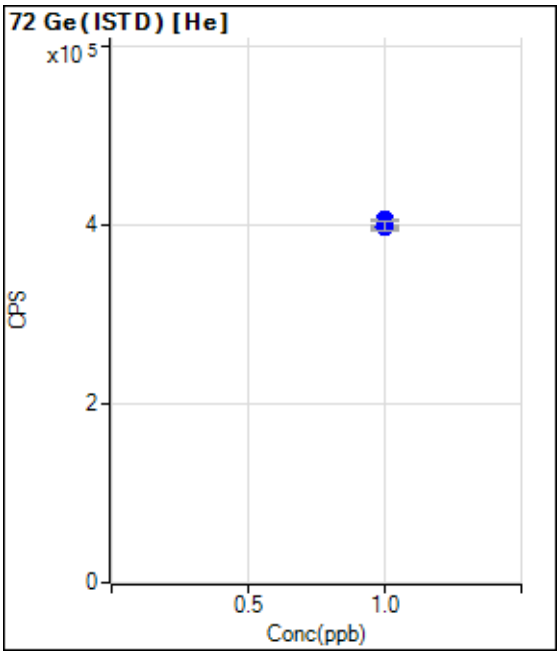
Weight: <None>
Min Conc: <None>



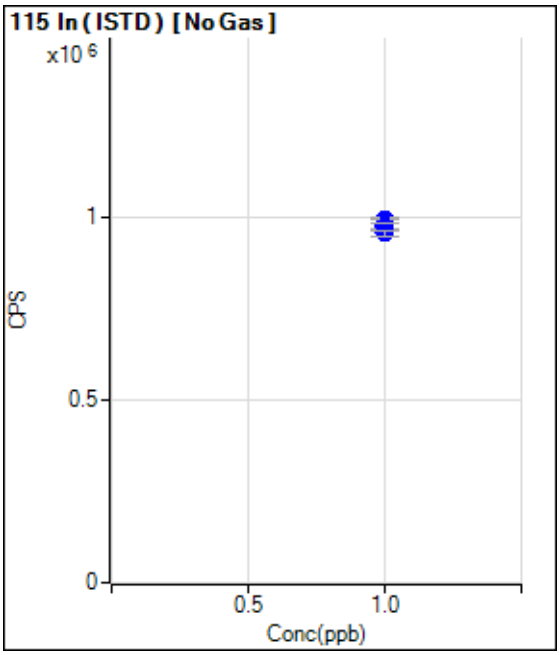
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		425695.49		P	2.9
2	☐	1.000		429328.05		P	1.5
3	☐	1.000		426375.43		P	2.2
4	☐	1.000		423775.50		P	1.5
5	☐	1.000		410093.89		P	1.7
6	☐	1.000		404444.32		P	2.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1025237.54		M	2.0
2	☐	1.000		1039433.76		A	0.9
3	☐	1.000		1044300.24		A	2.6
4	☐	1.000		1034710.14		A	3.5
5	☐	1.000		1011649.25		M	0.7
6	☐	1.000		1012674.96		A	3.2

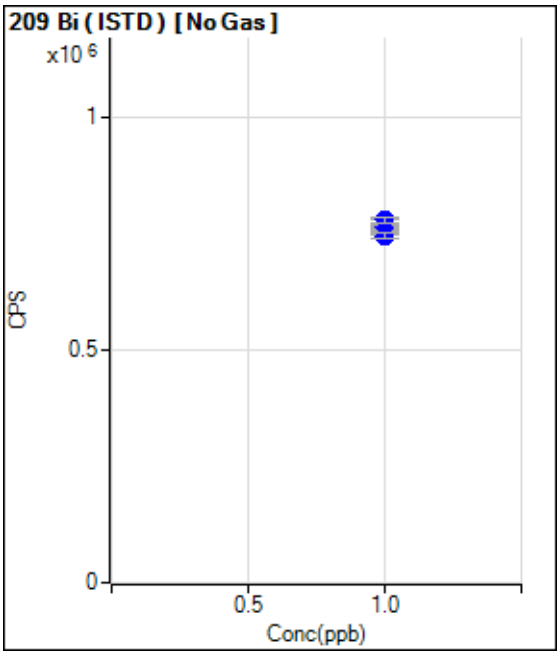


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		397960.16		P	1.1
2	☐	1.000		405206.67		P	0.2
3	☐	1.000		397506.92		P	0.5
4	☐	1.000		399067.91		P	0.7
5	☐	1.000		398802.79		P	0.4
6	☐	1.000		398171.18		P	2.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		976955.43		P	1.9
2	☐	1.000		995143.70		P	1.9
3	☐	1.000		978023.61		P	1.2
4	☐	1.000		981335.59		P	2.9
5	☐	1.000		977880.14		P	2.0
6	☐	1.000		957793.39		P	1.9

Calibration for 190_ICV.d



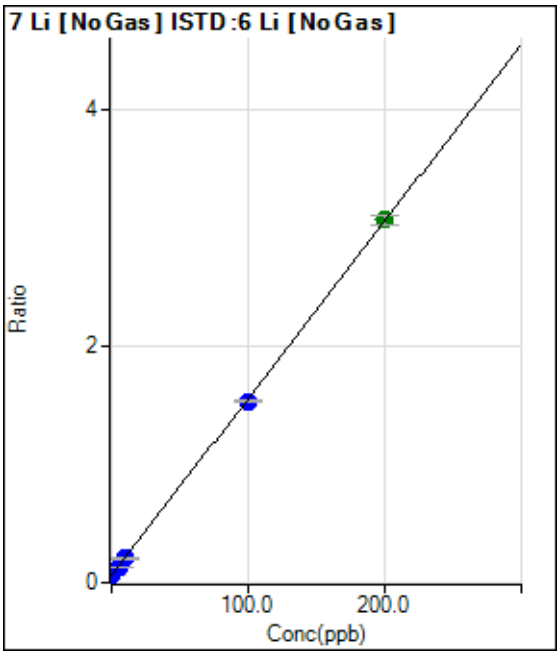
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		764762.70		P	2.4
2	☐	1.000		771228.48		P	2.3
3	☐	1.000		764977.23		P	1.2
4	☐	1.000		779069.21		P	1.4
5	☐	1.000		750718.61		P	1.2
6	☐	1.000		744970.25		P	1.8

Calibration for 028_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\020723A.b\
Analysis File: 020723A.batch.bin
DA Date-Time: 2/7/2023 11:20:47 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	021CALB.d	CAL BLK	2/7/2023 11:26:03 AM
2	022CALS.d	2/10/200	2/7/2023 11:28:03 AM
3	023CALS.d	5/25/500	2/7/2023 11:30:02 AM
4	024CALS.d	10/50/100	2/7/2023 11:32:02 AM
5	025CALS.d	100/500/10K	2/7/2023 11:34:01 AM
6	026CALS.d	200/1000/20K	2/7/2023 11:35:58 AM

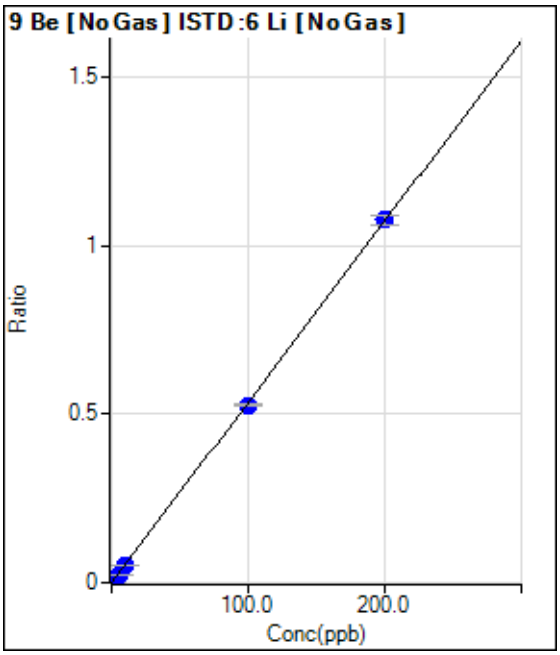
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25209.34	0.0626	P	0.8
2	☐	2.000	1.957	36669.54	0.0918	P	1.8
3	☐	5.000	4.712	52757.08	0.1330	P	0.8
4	☐	10.000	9.514	80524.57	0.2048	P	3.0
5	☐	100.000	98.245	588726.75	1.5317	P	1.2
6	☐	200.000	200.910	1140849.10	3.0668	A	3.0

y = 0.0150 * x + 0.0626
R = 0.9999
DL = 0.1003
BEC = 4.185

Weight: <None>
Min Conc: <None>

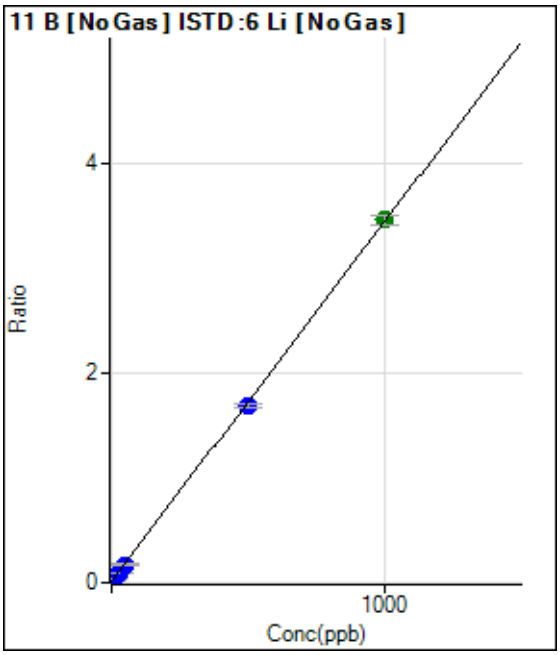


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0001	P	65.3
2	☐	2.000	1.885	4055.62	0.0102	P	6.3
3	☐	5.000	4.539	9660.07	0.0244	P	4.1
4	☐	10.000	9.343	19690.59	0.0501	P	3.4
5	☐	100.000	98.322	202367.49	0.5265	P	1.4
6	☐	200.000	200.884	400117.49	1.0757	P	2.7

y = 0.0054 * x + 6.6171E-005
R = 1.0000
DL = 0.0242
BEC = 0.01236

Weight: <None>
Min Conc: <None>

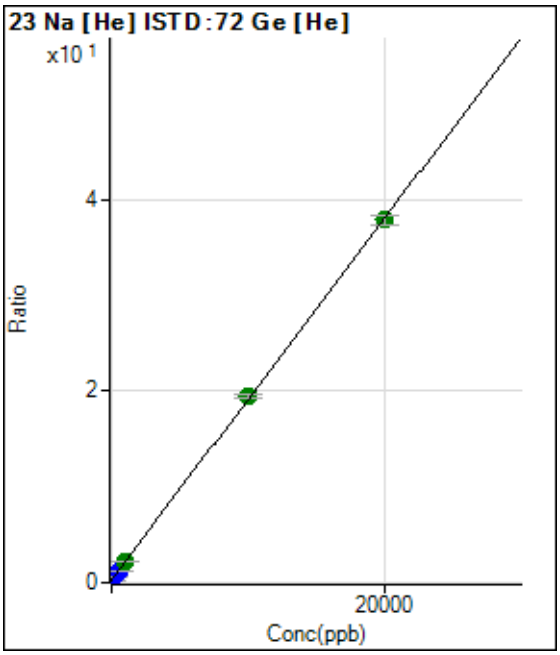
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5459.44	0.0136	P	3.0
2	☐	10.000	8.913	17636.15	0.0442	P	1.3
3	☐	25.000	22.616	36171.70	0.0912	P	3.8
4	☐	50.000	46.668	68345.84	0.1739	P	3.3
5	☐	500.000	489.874	651943.36	1.6964	P	2.3
6	☐	1000.000	1005.300	1289573.37	3.4670	A	2.7

y = 0.0034 * x + 0.0136
R = 0.9999
DL = 0.3526
BEC = 3.945

Weight: <None>
Min Conc: <None>

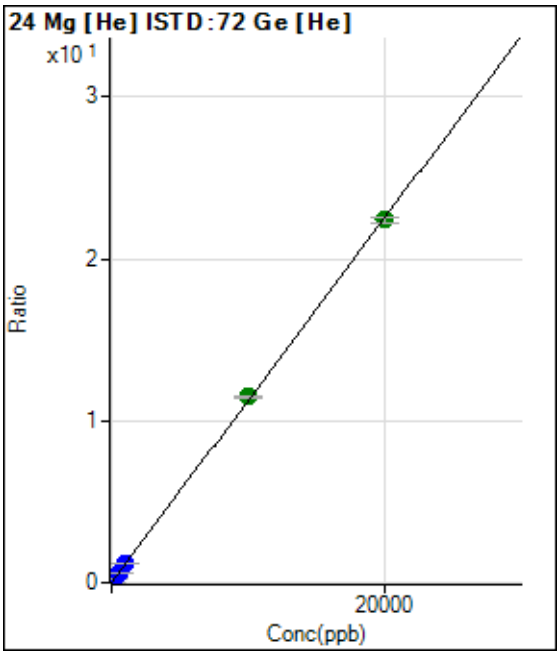


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108425.08	0.2889	P	0.8
2	☐	200.000	217.901	257936.70	0.6999	P	0.5
3	☐	500.000	516.416	461683.76	1.2630	P	1.7
4	☐	1000.000	1011.854	803496.21	2.1976	A	2.1
5	☐	10000.000	10148.128	7255638.23	19.4313	A	2.3
6	☐	20000.000	19924.754	14029498.96	37.8729	A	2.9

y = 0.0019 * x + 0.2889
R = 1.0000
DL = 3.852
BEC = 153.2

Weight: <None>
Min Conc: <None>

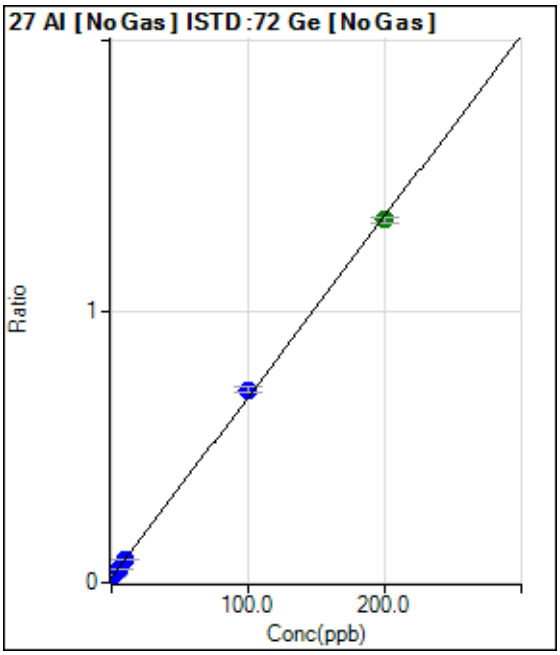
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1336.76	0.0036	P	6.7
2	☐	200.000	215.715	90816.08	0.2465	P	1.3
3	☐	500.000	523.859	216919.49	0.5934	P	2.0
4	☐	1000.000	1049.997	433602.82	1.1859	P	1.4
5	☐	10000.000	10185.965	4285042.85	11.4732	A	0.6
6	☐	20000.000	19903.764	8304599.67	22.4158	A	1.9

y = 0.0011 * x + 0.0036
R = 0.9999
DL = 0.6407
BEC = 3.164

Weight: <None>
Min Conc: <None>

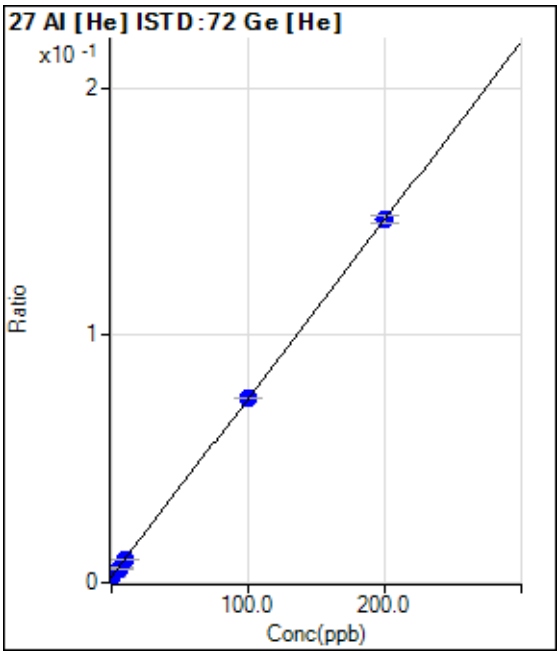


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18059.63	0.0183	P	3.1
2	☐	2.000	1.914	30397.05	0.0310	P	2.4
3	☐	5.000	4.877	49679.22	0.0508	P	2.2
4	☐	10.000	10.104	82001.68	0.0856	P	1.6
5	☐	100.000	104.005	681463.01	0.7118	P	2.9
6	☐	200.000	197.996	1273349.20	1.3386	A	1.8

y = 0.0067 * x + 0.0183
R = 0.9997
DL = 0.2547
BEC = 2.74

Weight: <None>
Min Conc: <None>

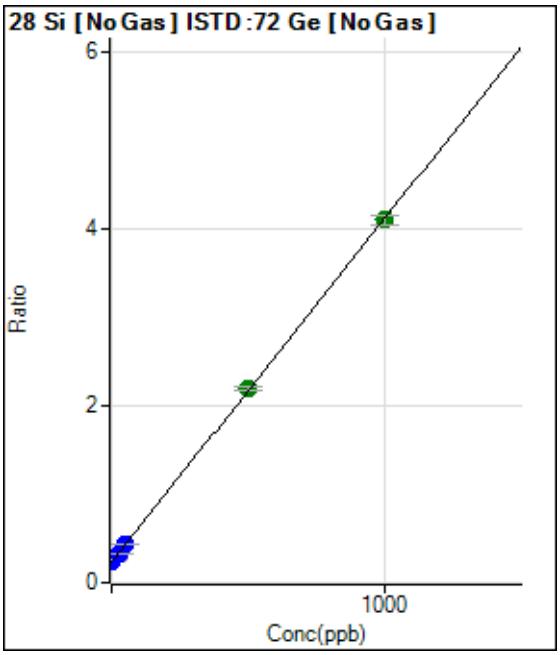
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	886.71	0.0024	P	6.4
2	☐	2.000	2.168	1446.77	0.0039	P	5.7
3	☐	5.000	4.796	2126.87	0.0058	P	5.7
4	☐	10.000	9.721	3427.15	0.0094	P	1.9
5	☐	100.000	99.948	27791.41	0.0744	P	0.4
6	☐	200.000	200.043	54307.00	0.1466	P	2.1

y = 7.2092E-004 * x + 0.0024
R = 1.0000
DL = 0.6326
BEC = 3.278

Weight: <None>
Min Conc: <None>

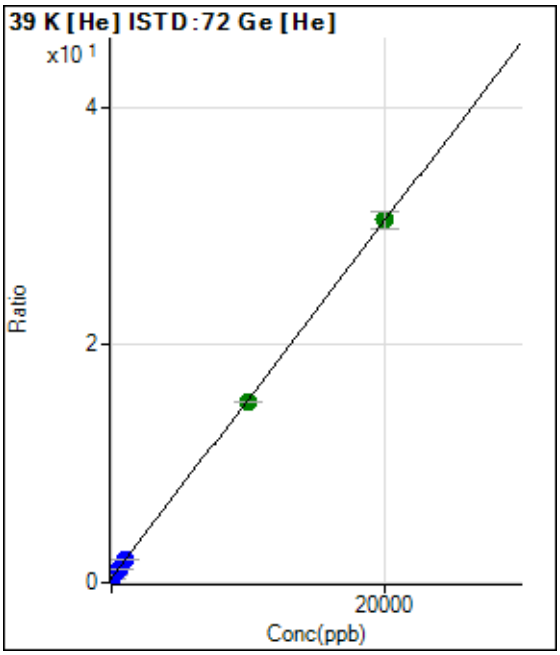


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	228708.71	0.2314	P	1.6
2	☐	10.000	10.713	267271.43	0.2730	P	2.3
3	☐	25.000	26.054	325150.36	0.3324	P	0.8
4	☐	50.000	52.095	414966.49	0.4334	P	0.5
5	☐	500.000	506.348	2101060.13	2.1943	A	2.0
6	☐	1000.000	996.688	3894304.00	4.0951	A	2.6

y = 0.0039 * x + 0.2314
R = 1.0000
DL = 2.838
BEC = 59.7

Weight: <None>
Min Conc: <None>

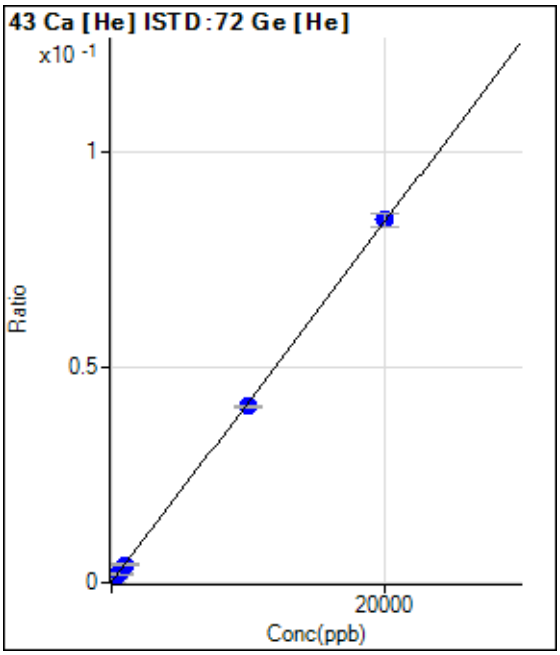
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	149694.32	0.3989	P	0.4
2	☐	200.000	211.203	263983.53	0.7163	P	0.7
3	☐	500.000	505.386	423440.72	1.1585	P	2.5
4	☐	1000.000	1005.323	698344.11	1.9100	P	2.0
5	☐	10000.000	9886.115	5698584.91	15.2585	A	0.4
6	☐	20000.000	20056.430	11312446.92	30.5454	A	4.8

y = 0.0015 * x + 0.3989
R = 1.0000
DL = 3.49
BEC = 265.4

Weight: <None>
Min Conc: <None>

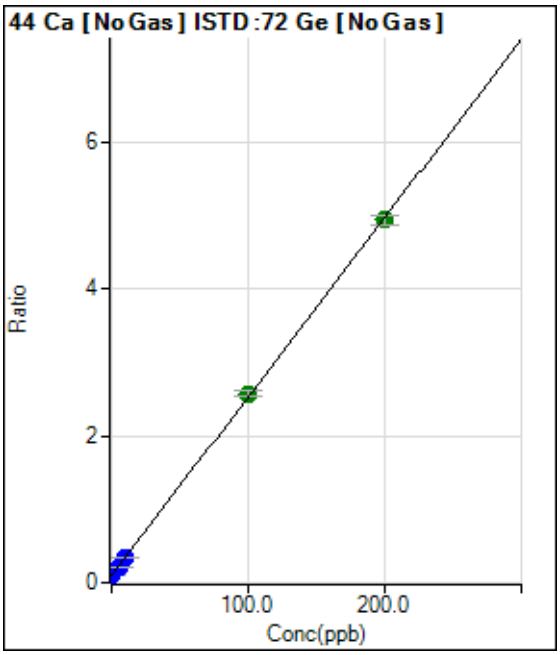


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0001	P	32.9
2	☐	200.000	192.756	326.68	0.0009	P	11.2
3	☐	500.000	483.040	766.70	0.0021	P	10.6
4	☐	1000.000	982.230	1530.11	0.0042	P	6.2
5	☐	10000.000	9785.329	15308.86	0.0410	P	1.1
6	☐	20000.000	20108.721	31165.73	0.0841	P	3.8

y = 4.1805E-006 * x + 7.9873E-005
R = 0.9999
DL = 18.87
BEC = 19.11

Weight: <None>
Min Conc: <None>

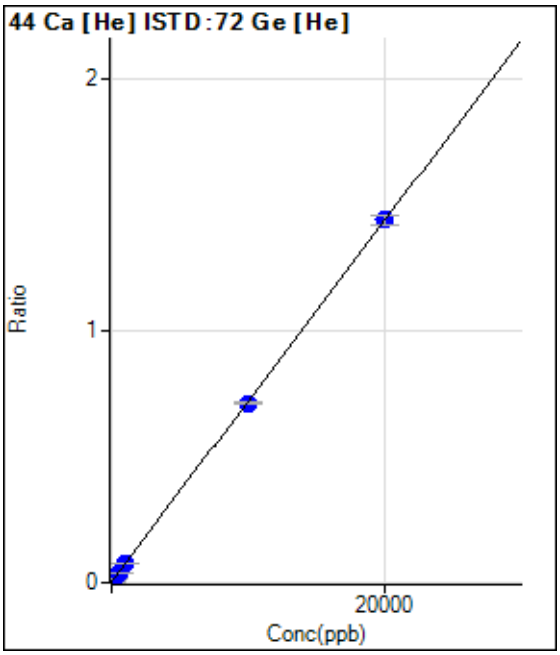
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	95328.70	0.0965	P	1.6
2	☐	2.000	2.157	145775.32	0.1489	P	2.4
3	☐	5.000	4.891	210587.39	0.2153	P	1.9
4	☐	10.000	10.082	326954.56	0.3415	P	1.2
5	☐	100.000	101.992	2465384.75	2.5750	A	3.6
6	☐	200.000	199.001	4691125.97	4.9325	A	2.7

y = 0.0243 * x + 0.0965
R = 0.9999
DL = 0.1889
BEC = 3.97

Weight: <None>
Min Conc: <None>

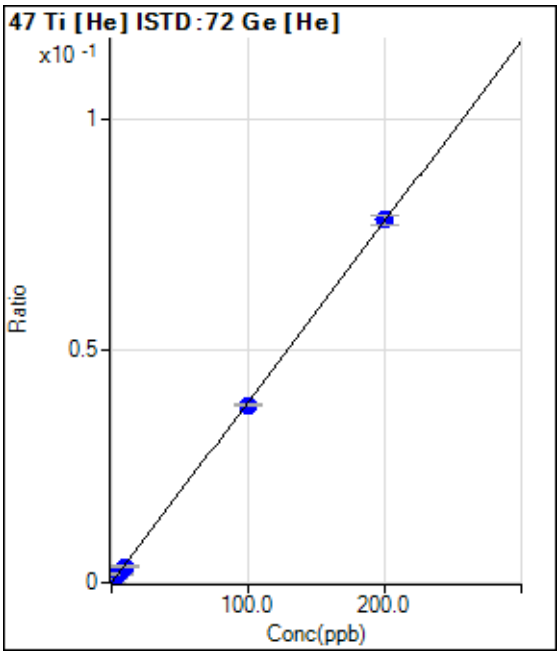


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1406.77	0.0037	P	8.2
2	☐	200.000	201.394	6695.07	0.0182	P	3.3
3	☐	500.000	480.780	13950.64	0.0382	P	3.1
4	☐	1000.000	977.270	26960.14	0.0737	P	1.8
5	☐	10000.000	9881.885	265652.38	0.7112	P	1.3
6	☐	20000.000	20060.661	533435.21	1.4400	P	2.7

y = 7.1595E-005 * x + 0.0037
R = 1.0000
DL = 12.92
BEC = 52.37

Weight: <None>
Min Conc: <None>

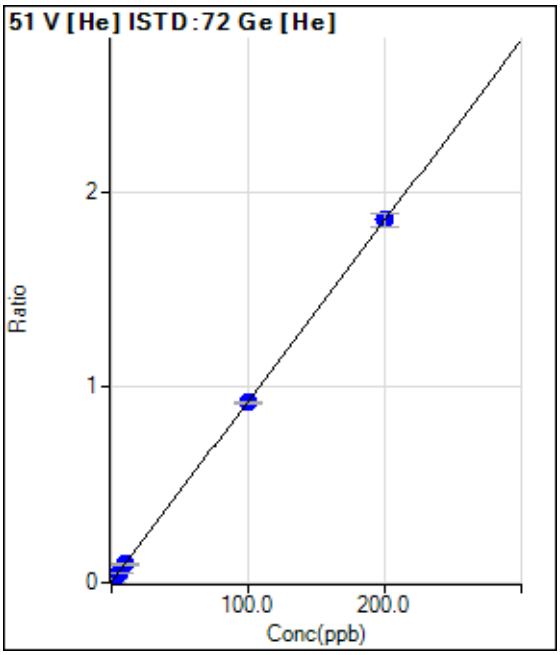
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	65.8
2	☐	2.000	1.960	303.34	0.0008	P	24.9
3	☐	5.000	4.806	706.70	0.0019	P	12.1
4	☐	10.000	8.626	1250.08	0.0034	P	12.2
5	☐	100.000	98.185	14274.35	0.0382	P	1.0
6	☐	200.000	200.982	28964.32	0.0782	P	2.4

y = 3.8868E-004 * x + 6.2298E-005
R = 0.9999
DL = 0.3164
BEC = 0.1603

Weight: <None>
Min Conc: <None>

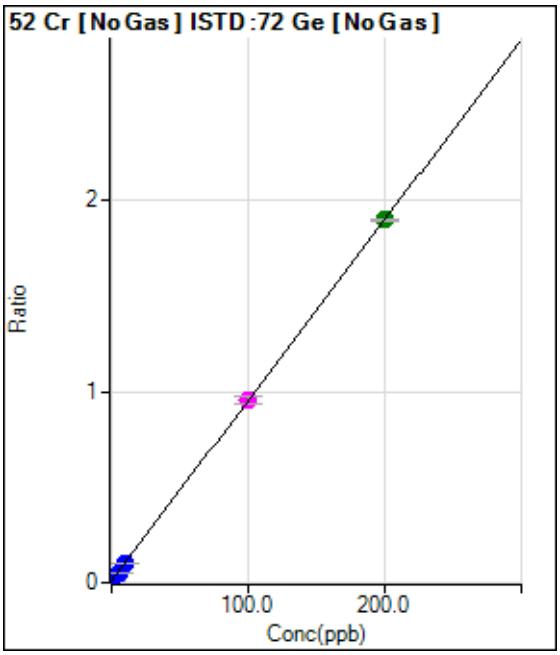


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1432.31	0.0038	P	6.4
2	☐	2.000	1.999	8213.62	0.0223	P	1.9
3	☐	5.000	4.806	17636.95	0.0482	P	0.9
4	☐	10.000	9.745	34331.89	0.0939	P	0.9
5	☐	100.000	99.155	343681.51	0.9204	P	1.8
6	☐	200.000	200.440	687678.03	1.8566	P	3.6

y = 0.0092 * x + 0.0038
R = 1.0000
DL = 0.07966
BEC = 0.4129

Weight: <None>
Min Conc: <None>

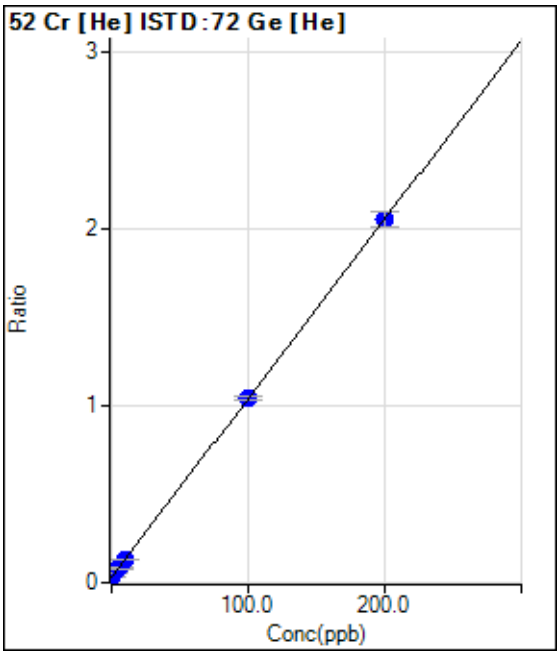
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9673.60	0.0098	P	4.7
2	☐	2.000	2.035	28393.03	0.0290	P	4.8
3	☐	5.000	4.730	53260.98	0.0545	P	1.5
4	☐	10.000	9.906	98927.81	0.1033	P	1.8
5	☐	100.000	99.963	913096.86	0.9536	M	3.7
6	☐	200.000	200.029	1805685.60	1.8985	A	0.9

y = 0.0094 * x + 0.0098
R = 1.0000
DL = 0.1461
BEC = 1.037

Weight: <None>
Min Conc: <None>

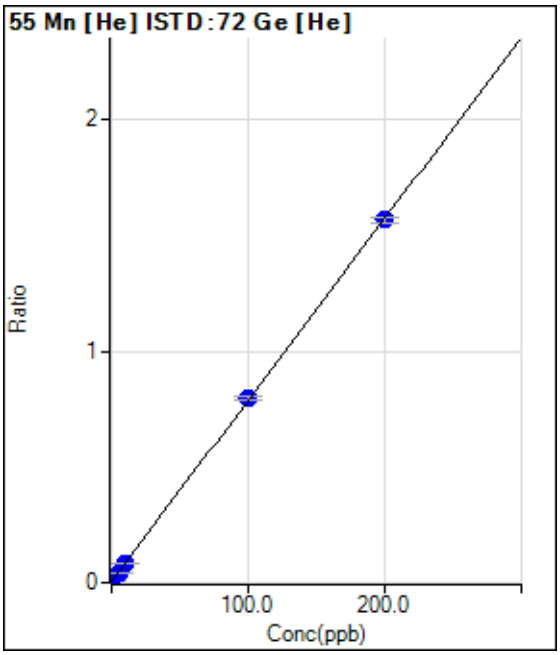


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11481.73	0.0306	P	5.0
2	☐	2.000	2.041	18876.77	0.0512	P	1.6
3	☐	5.000	5.049	29846.25	0.0816	P	0.4
4	☐	10.000	10.275	49158.88	0.1344	P	1.6
5	☐	100.000	100.382	390301.32	1.0452	P	1.6
6	☐	200.000	199.793	759221.92	2.0500	P	4.3

y = 0.0101 * x + 0.0306
R = 1.0000
DL = 0.4577
BEC = 3.027

Weight: <None>
Min Conc: <None>

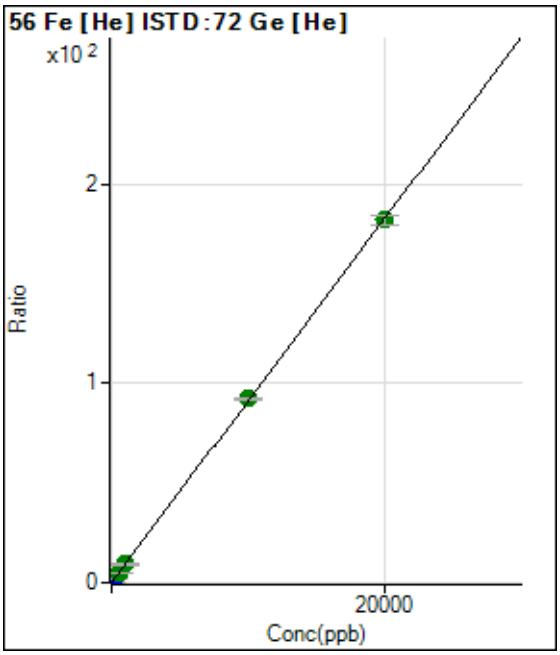
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2076.86	0.0055	P	6.3
2	☐	2.000	2.039	7919.08	0.0215	P	4.9
3	☐	5.000	4.863	15932.94	0.0436	P	3.6
4	☐	10.000	9.894	30330.79	0.0830	P	3.0
5	☐	100.000	101.119	297638.36	0.7969	P	1.3
6	☐	200.000	199.449	580329.50	1.5665	P	1.9

y = 0.0078 * x + 0.0055
R = 1.0000
DL = 0.1327
BEC = 0.7072

Weight: <None>
Min Conc: <None>

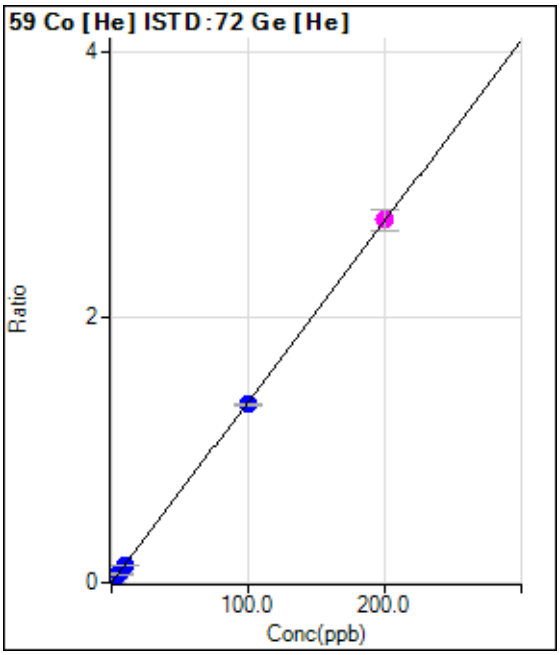


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21149.95	0.0564	P	2.0
2	☐	200.000	210.144	727936.53	1.9756	P	1.6
3	☐	500.000	515.583	1741522.68	4.7650	A	3.4
4	☐	1000.000	1012.189	3400264.12	9.3004	A	3.7
5	☐	10000.000	10104.441	34481865.32	92.3376	A	1.1
6	☐	20000.000	19946.679	67504230.66	182.2242	A	2.6

y = 0.0091 * x + 0.0564
R = 1.0000
DL = 0.3729
BEC = 6.171

Weight: <None>
Min Conc: <None>

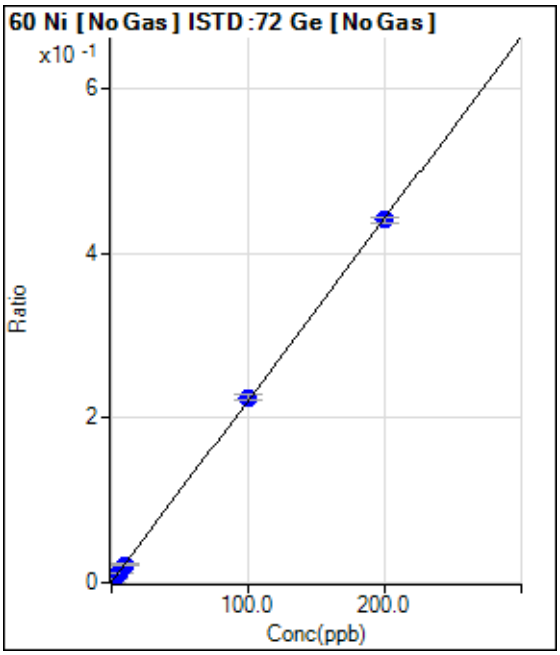
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0003	P	16.8
2	☐	2.000	2.066	10497.58	0.0285	P	3.8
3	☐	5.000	4.904	24549.29	0.0672	P	6.3
4	☐	10.000	9.600	47984.85	0.1312	P	0.5
5	☐	100.000	98.590	502145.68	1.3446	P	0.6
6	☐	200.000	200.727	1013728.68	2.7373	M	5.6

y = 0.0136 * x + 3.1980E-004
R = 1.0000
DL = 0.01184
BEC = 0.02345

Weight: <None>
Min Conc: <None>

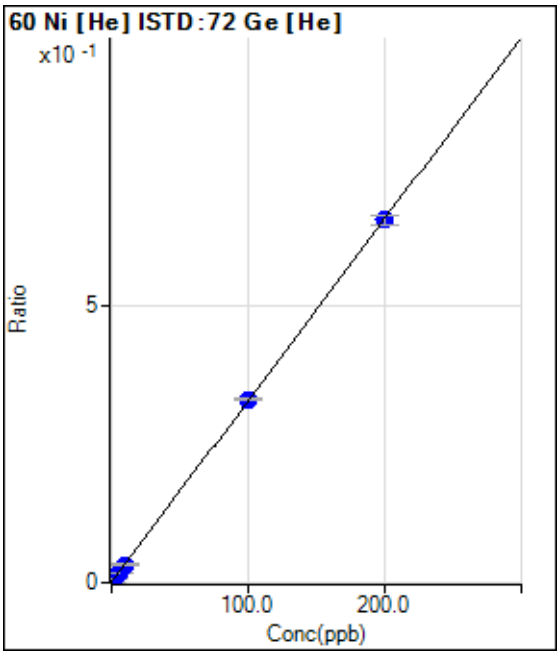


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	603.36	0.0006	P	12.6
2	☐	2.000	1.947	4800.93	0.0049	P	9.8
3	☐	5.000	4.952	11284.89	0.0115	P	4.5
4	☐	10.000	9.707	21093.41	0.0220	P	2.4
5	☐	100.000	101.457	214937.21	0.2245	P	3.0
6	☐	200.000	199.288	418883.44	0.4404	P	1.6

y = 0.0022 * x + 6.1096E-004
R = 1.0000
DL = 0.1046
BEC = 0.2768

Weight: <None>
Min Conc: <None>

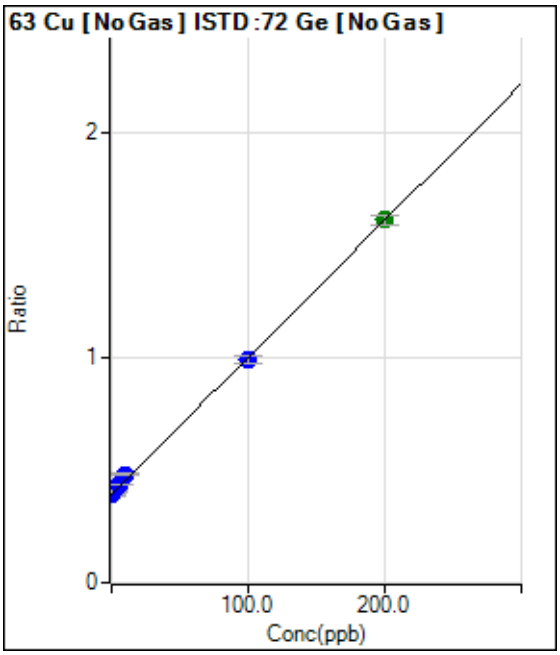
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	266.68	0.0007	P	4.5
2	☐	2.000	1.984	2666.99	0.0072	P	11.6
3	☐	5.000	5.037	6314.94	0.0173	P	3.5
4	☐	10.000	9.809	12058.91	0.0330	P	2.8
5	☐	100.000	100.862	124160.54	0.3325	P	1.9
6	☐	200.000	199.578	243462.73	0.6572	P	2.7

y = 0.0033 * x + 7.1065E-004
R = 1.0000
DL = 0.02929
BEC = 0.216

Weight: <None>
Min Conc: <None>

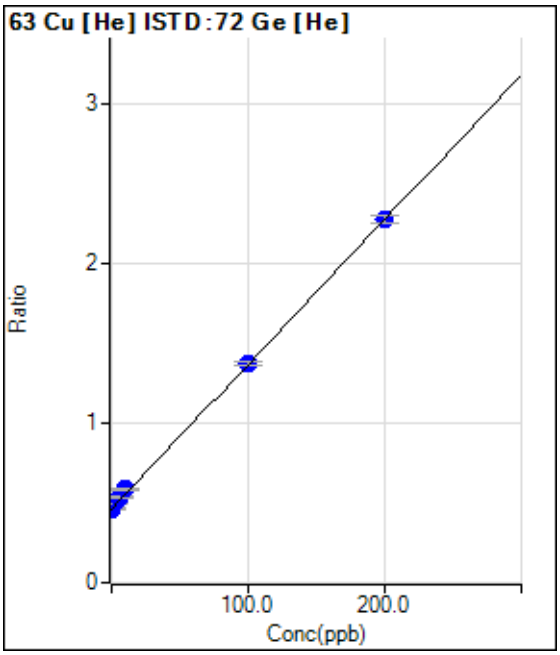


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	387569.64	0.3922	P	1.9
2	☐	2.000	2.807	400761.78	0.4093	P	2.3
3	☐	5.000	6.617	422996.71	0.4325	P	0.4
4	☐	10.000	14.718	461230.93	0.4818	P	2.0
5	☐	100.000	98.525	949193.37	0.9915	P	3.2
6	☐	200.000	200.453	1532657.95	1.6115	A	2.6

y = 0.0061 * x + 0.3922
R = 0.9997
DL = 3.747
BEC = 64.48

Weight: <None>
Min Conc: <None>

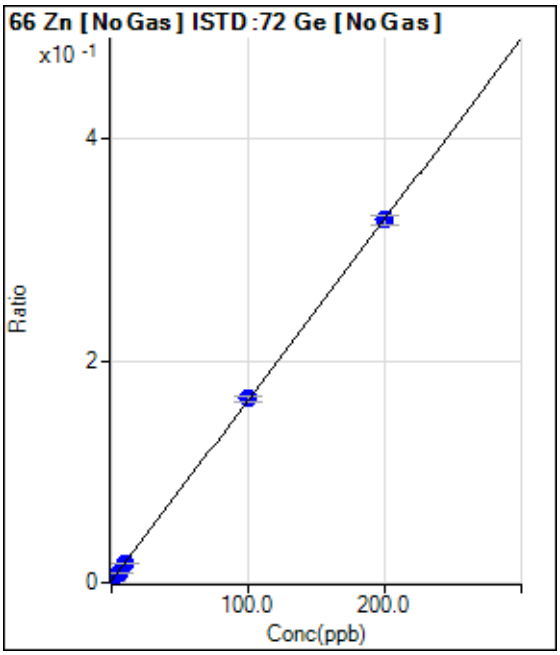
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173279.18	0.4617	P	0.9
2	☐	2.000	4.072	183743.91	0.4986	P	1.2
3	☐	5.000	7.771	194534.75	0.5322	P	1.7
4	☐	10.000	13.547	213747.74	0.5846	P	0.9
5	☐	100.000	100.132	511502.61	1.3698	P	1.6
6	☐	200.000	199.667	841829.13	2.2724	P	2.2

y = 0.0091 * x + 0.4617
R = 0.9999
DL = 1.376
BEC = 50.91

Weight: <None>
Min Conc: <None>

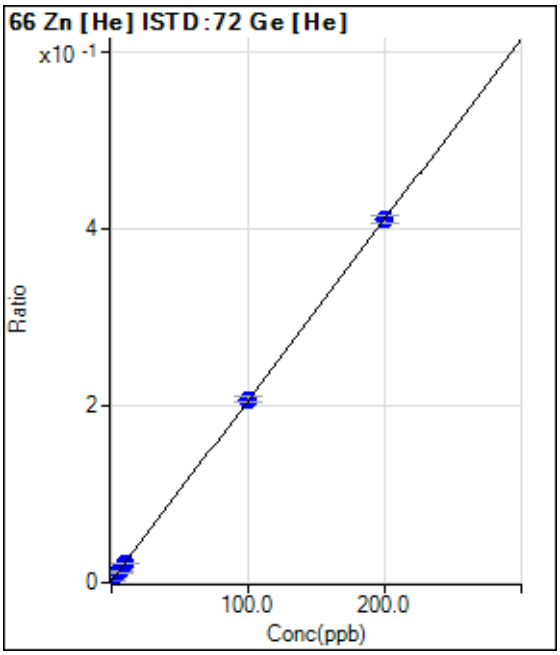


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1736.81	0.0018	P	4.7
2	☐	2.000	1.745	4500.81	0.0046	P	8.7
3	☐	5.000	4.454	8809.67	0.0090	P	1.7
4	☐	10.000	9.468	16440.31	0.0172	P	1.8
5	☐	100.000	100.635	158496.21	0.1655	P	2.6
6	☐	200.000	199.725	310794.35	0.3268	P	2.4

y = 0.0016 * x + 0.0018
R = 1.0000
DL = 0.1524
BEC = 1.08

Weight: <None>
Min Conc: <None>

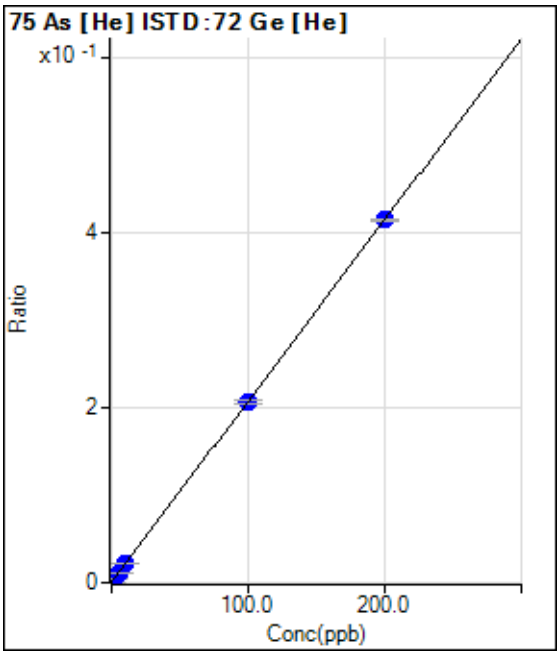
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	836.71	0.0022	P	10.2
2	☑	2.000		2180.22	0.0059	P	5.4
3	☐	5.000	4.878	4457.48	0.0122	P	9.3
4	☐	10.000	9.281	7755.71	0.0212	P	1.1
5	☐	100.000	100.475	77551.92	0.2077	P	3.2
6	☐	200.000	199.802	152207.11	0.4108	P	2.1

y = 0.0020 * x + 0.0022
R = 1.0000
DL = 0.3329
BEC = 1.09

Weight: <None>
Min Conc: <None>

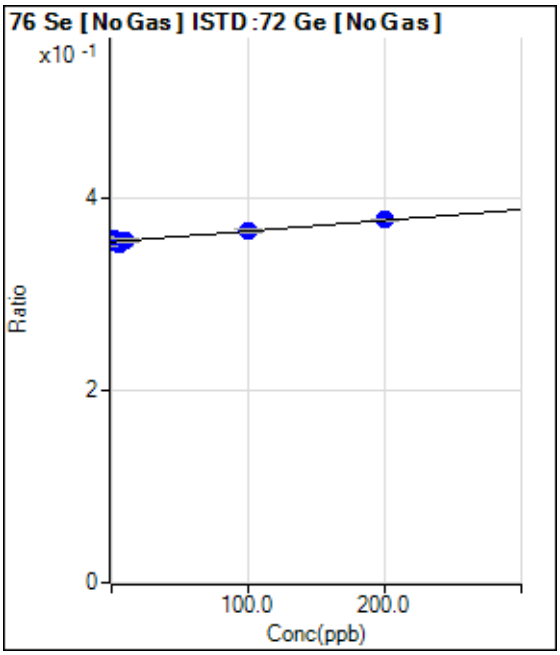


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	167.78	0.0004	P	10.7
2	☐	2.000	2.035	1719.01	0.0047	P	0.3
3	☐	5.000	4.933	3900.58	0.0107	P	1.9
4	☐	10.000	10.068	7793.40	0.0213	P	1.4
5	☐	100.000	99.813	77421.78	0.2073	P	1.7
6	☐	200.000	200.091	153831.62	0.4152	P	0.7

y = 0.0021 * x + 4.4698E-004
R = 1.0000
DL = 0.06905
BEC = 0.2157

Weight: <None>
Min Conc: <None>

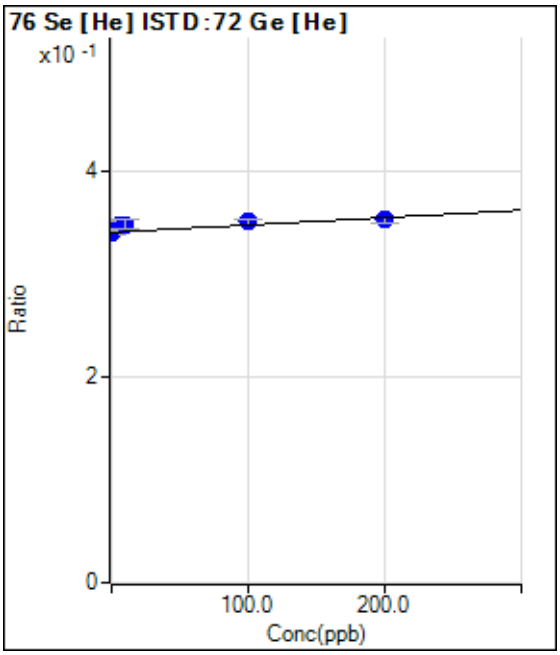
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	349840.11	0.3540	P	1.6
2	☐	2.000	25.750	349492.23	0.3569	P	1.7
3	☐	5.000	-28.135	343185.78	0.3509	P	1.0
4	☐	10.000	8.470	339894.17	0.3550	P	0.9
5	☐	100.000	94.347	349137.95	0.3646	P	1.1
6	☐	200.000	203.494	358377.14	0.3768	P	0.3

y = 1.1178E-004 * x + 0.3540
R = 0.9769
DL = 153.9
BEC = 3167

Weight: <None>
Min Conc: <None>

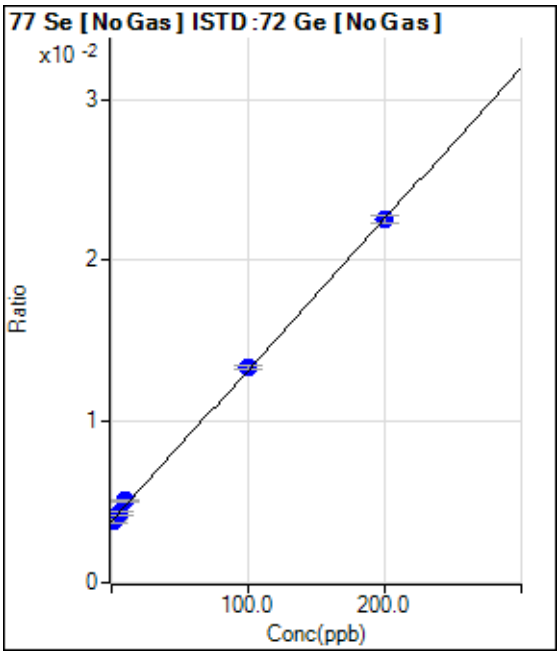


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127960.86	0.3410	P	1.8
2	☐	2.000	62.711	127301.52	0.3455	P	1.4
3	☐	5.000	87.376	126924.16	0.3473	P	2.4
4	☐	10.000	107.882	127493.23	0.3487	P	2.5
5	☐	100.000	148.504	131312.68	0.3516	P	1.6
6	☐	200.000	168.188	130811.33	0.3531	P	1.6

y = 7.1755E-005 * x + 0.3410
R = 0.7953
DL = 256.5
BEC = 4752

Weight: <None>
Min Conc: <None>

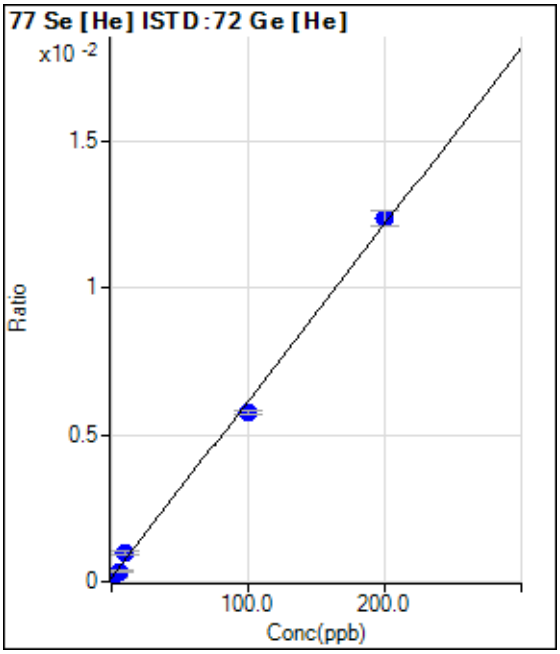
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3773.94	0.0038	P	2.9
2	☐	2.000	-0.482	3693.91	0.0038	P	6.3
3	☐	5.000	5.181	4210.74	0.0043	P	4.4
4	☐	10.000	13.756	4894.31	0.0051	P	2.3
5	☐	100.000	101.166	12749.53	0.0133	P	1.8
6	☐	200.000	199.250	21417.28	0.0225	P	2.1

y = 9.3855E-005 * x + 0.0038
R = 0.9997
DL = 3.558
BEC = 40.7

Weight: <None>
Min Conc: <None>

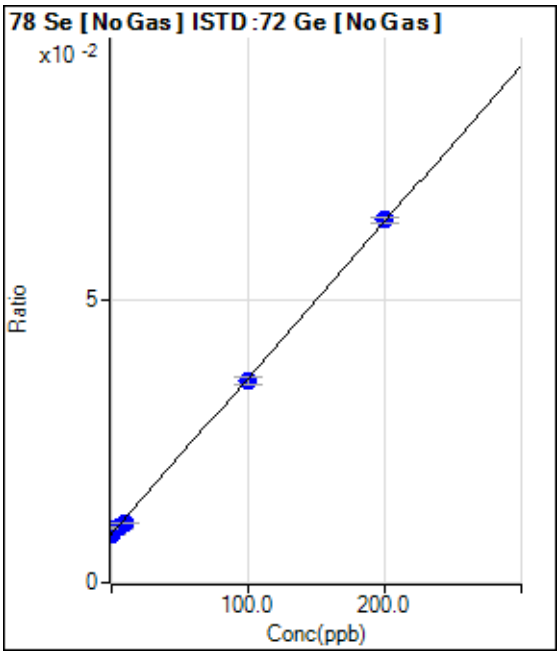


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	57.6
2	☐	2.000	0.956	73.33	0.0002	P	58.0
3	☐	5.000	3.542	130.00	0.0004	P	14.2
4	☐	10.000	13.724	353.35	0.0010	P	15.1
5	☐	100.000	93.426	2150.22	0.0058	P	2.5
6	☐	200.000	203.148	4574.21	0.0123	P	4.2

y = 6.0092E-005 * x + 1.4239E-004
R = 0.9990
DL = 4.092
BEC = 2.37

Weight: <None>
Min Conc: <None>

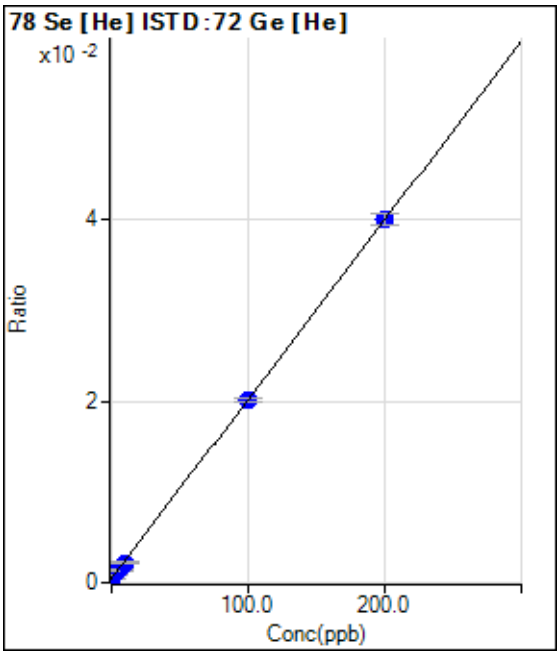
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8536.20	0.0086	P	5.8
2	☐	2.000	3.106	9293.38	0.0095	P	8.3
3	☐	5.000	4.049	9546.91	0.0098	P	4.0
4	☐	10.000	6.879	10097.31	0.0105	P	0.9
5	☐	100.000	98.035	34227.15	0.0358	P	4.2
6	☐	200.000	201.151	61132.27	0.0643	P	1.4

y = 2.7657E-004 * x + 0.0086
R = 0.9998
DL = 5.394
BEC = 31.25

Weight: <None>
Min Conc: <None>

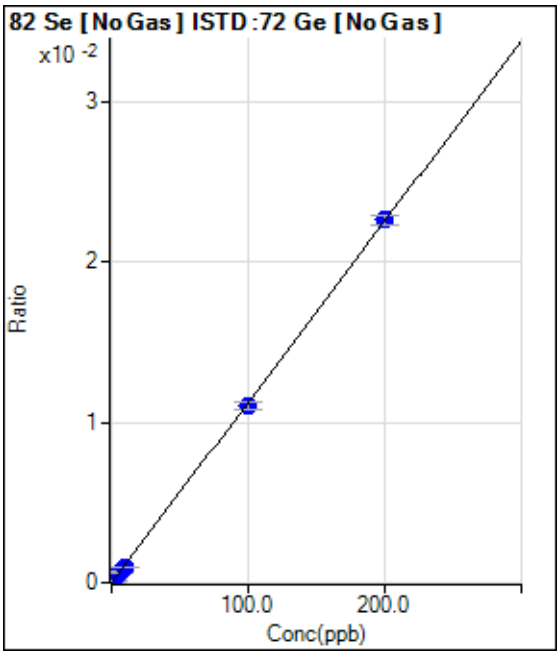


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0005	P	5.0
2	☐	2.000	1.594	289.33	0.0008	P	2.0
3	☐	5.000	4.701	510.68	0.0014	P	10.2
4	☐	10.000	8.836	809.36	0.0022	P	2.6
5	☐	100.000	99.805	7527.46	0.0202	P	1.5
6	☐	200.000	200.167	14799.47	0.0400	P	3.2

y = 1.9725E-004 * x + 4.7080E-004
R = 1.0000
DL = 0.3581
BEC = 2.387

Weight: <None>
Min Conc: <None>

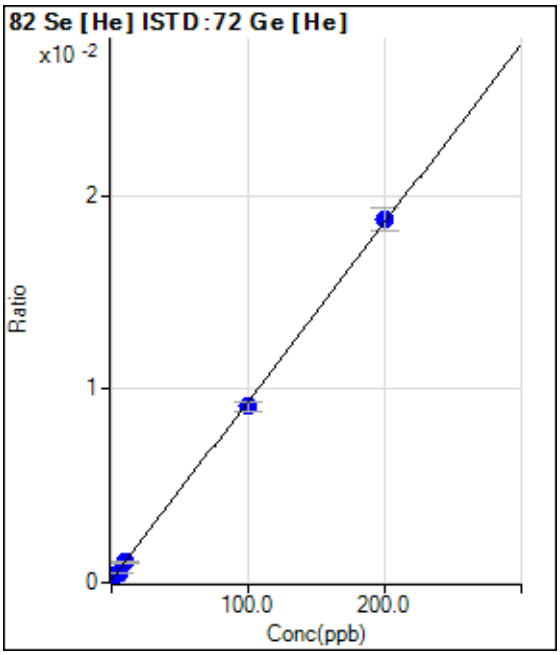
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-15.40	0.0000	P	-369.4
2	☐	2.000	2.014	204.66	0.0002	P	80.2
3	☐	5.000	5.659	608.44	0.0006	P	16.5
4	☐	10.000	8.544	907.97	0.0009	P	8.1
5	☐	100.000	98.031	10562.47	0.0110	P	3.7
6	☐	200.000	201.041	21536.04	0.0226	P	2.4

y = 1.1272E-004 * x - 1.5282E-005
R = 0.9999
DL = 1.502
BEC = -0.1356

Weight: <None>
Min Conc: <None>

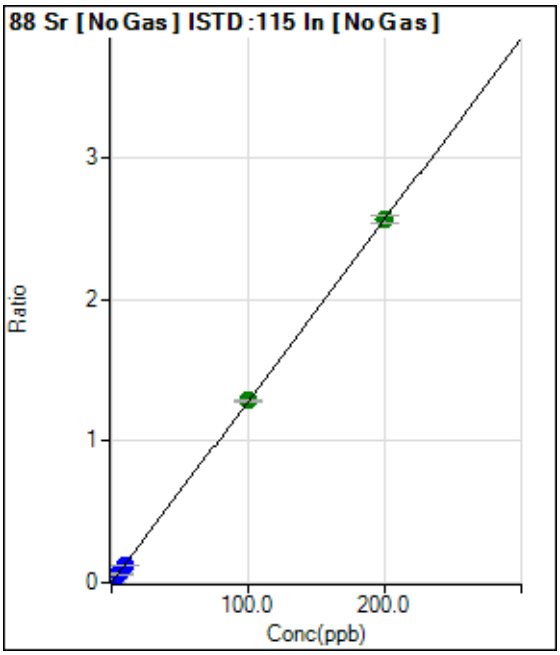


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0002	P	62.1
2	☐	2.000	3.056	160.00	0.0004	P	48.7
3	☐	5.000	3.708	180.00	0.0005	P	16.3
4	☐	10.000	9.924	390.01	0.0011	P	7.0
5	☐	100.000	96.937	3397.15	0.0091	P	5.1
6	☐	200.000	201.557	6941.92	0.0187	P	6.3

y = 9.2248E-005 * x + 1.5125E-004
R = 0.9998
DL = 3.056
BEC = 1.64

Weight: <None>
Min Conc: <None>

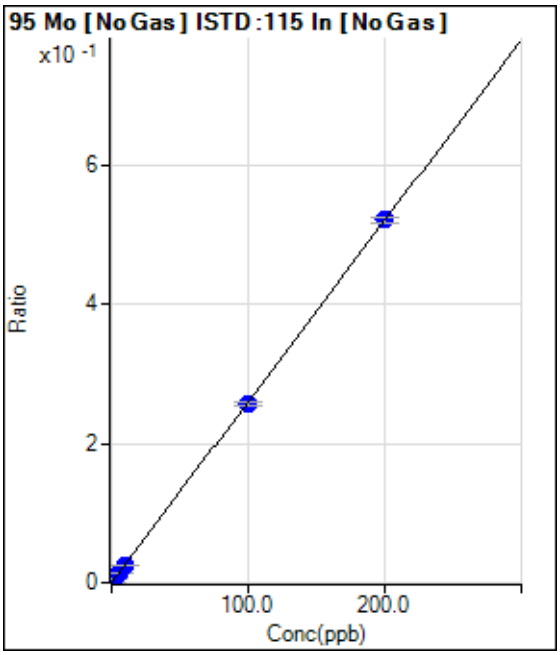
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	306.68	0.0003	P	8.1
2	☐	2.000	1.956	23881.61	0.0254	P	1.6
3	☐	5.000	4.789	57949.15	0.0618	P	3.2
4	☐	10.000	9.655	114863.45	0.1243	P	1.9
5	☐	100.000	100.176	1181525.61	1.2861	A	1.4
6	☐	200.000	199.935	2327653.77	2.5666	A	2.1

y = 0.0128 * x + 3.2745E-004
R = 1.0000
DL = 0.006171
BEC = 0.02551

Weight: <None>
Min Conc: <None>

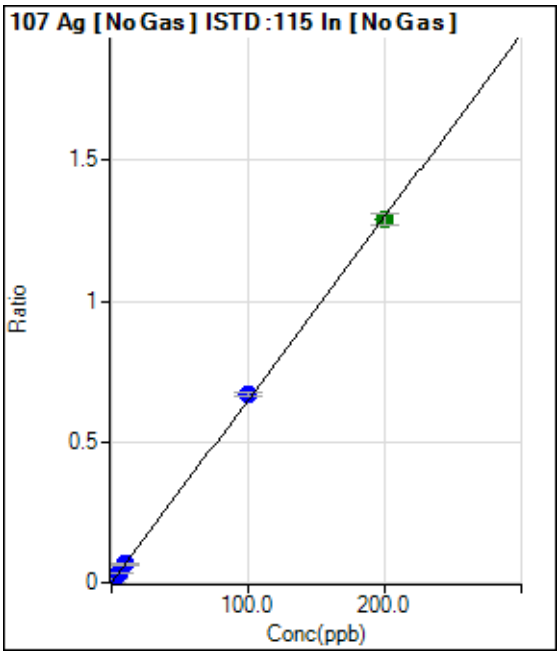


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	54.2
2	☐	2.000	1.977	4867.64	0.0052	P	2.7
3	☐	5.000	4.842	11855.51	0.0126	P	1.5
4	☐	10.000	9.701	23364.29	0.0253	P	3.8
5	☐	100.000	98.930	236387.26	0.2573	P	1.4
6	☐	200.000	200.554	473077.62	0.5216	P	1.8

y = 0.0026 * x + 4.6410E-005
R = 1.0000
DL = 0.02902
BEC = 0.01785

Weight: <None>
Min Conc: <None>

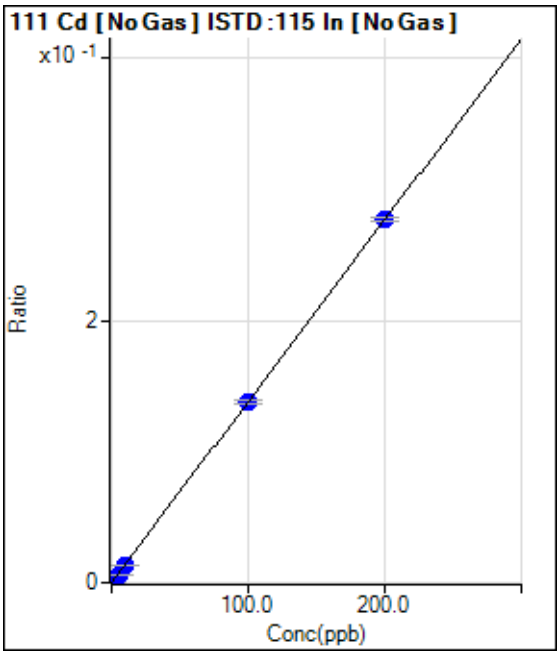
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	78.5
2	☐	2.000	2.025	12366.00	0.0132	P	2.9
3	☐	5.000	5.008	30528.81	0.0325	P	1.9
4	☐	10.000	9.989	59976.47	0.0649	P	2.9
5	☐	100.000	103.130	615098.61	0.6696	P	2.3
6	☐	200.000	198.435	1168401.31	1.2884	A	3.1

y = 0.0065 * x + 2.8598E-005
R = 0.9998
DL = 0.01037
BEC = 0.004405

Weight: <None>
Min Conc: <None>

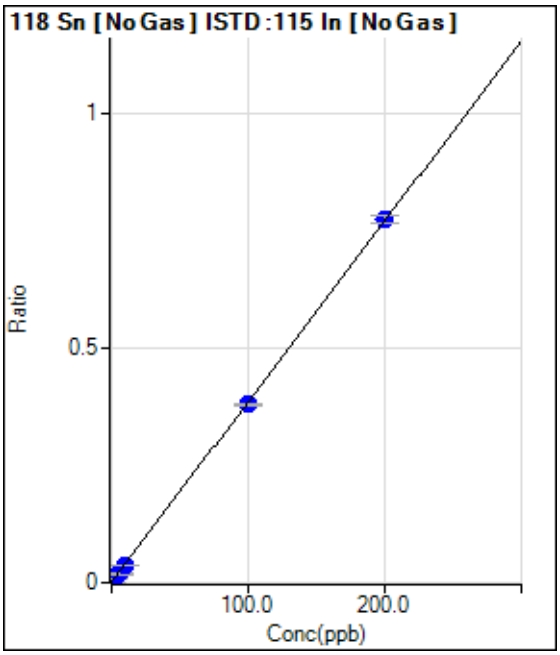


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	99.2
2	☐	2.000	1.946	2533.63	0.0027	P	6.3
3	☐	5.000	4.606	5981.50	0.0064	P	2.1
4	☐	10.000	9.835	12572.85	0.0136	P	3.2
5	☐	100.000	99.651	126483.58	0.1377	P	2.9
6	☐	200.000	200.193	250902.67	0.2766	P	1.0

y = 0.0014 * x + 1.0603E-005
R = 1.0000
DL = 0.02283
BEC = 0.007673

Weight: <None>
Min Conc: <None>

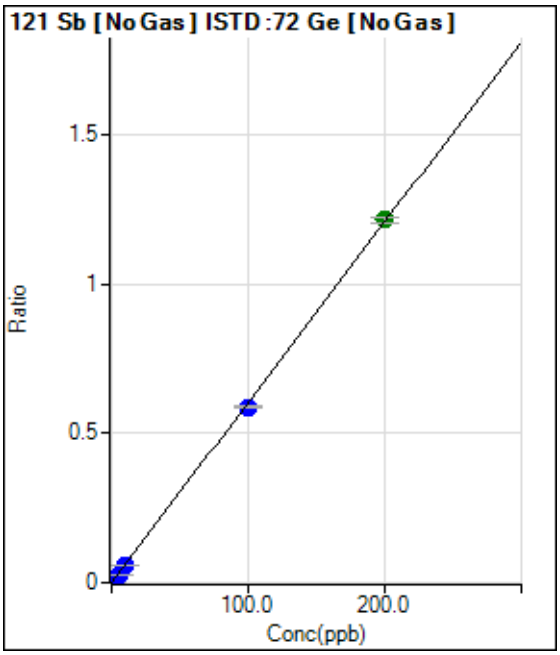
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	913.38	0.0010	P	7.8
2	☐	2.000	1.941	7905.86	0.0084	P	7.6
3	☐	5.000	4.634	17598.76	0.0188	P	5.4
4	☐	10.000	9.416	34332.08	0.0371	P	2.0
5	☐	100.000	98.533	348563.27	0.3794	P	1.1
6	☐	200.000	200.773	700129.99	0.7721	P	2.3

y = 0.0038 * x + 9.7485E-004
R = 1.0000
DL = 0.05937
BEC = 0.2538

Weight: <None>
Min Conc: <None>

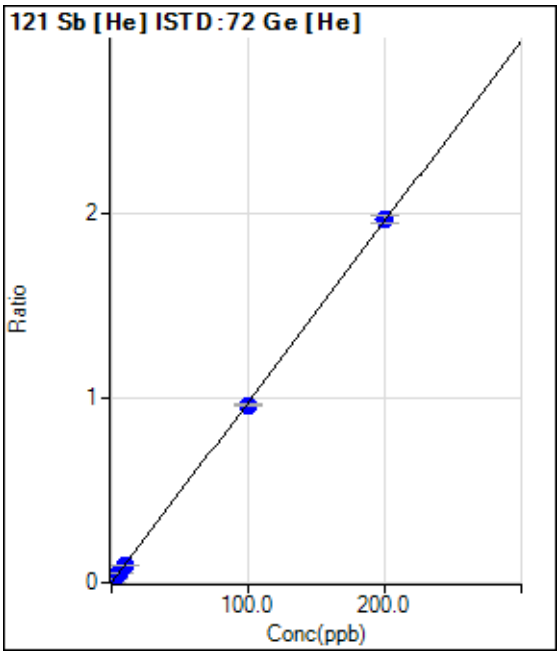


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0001	P	32.4
2	☐	2.000	1.925	11488.60	0.0117	P	3.7
3	☐	5.000	4.633	27435.81	0.0281	P	3.3
4	☐	10.000	9.598	55507.92	0.0580	P	0.7
5	☐	100.000	97.360	561940.46	0.5868	P	1.1
6	☐	200.000	201.350	1154007.25	1.2134	A	1.5

y = 0.0060 * x + 1.3801E-004
R = 0.9999
DL = 0.02226
BEC = 0.0229

Weight: <None>
Min Conc: <None>

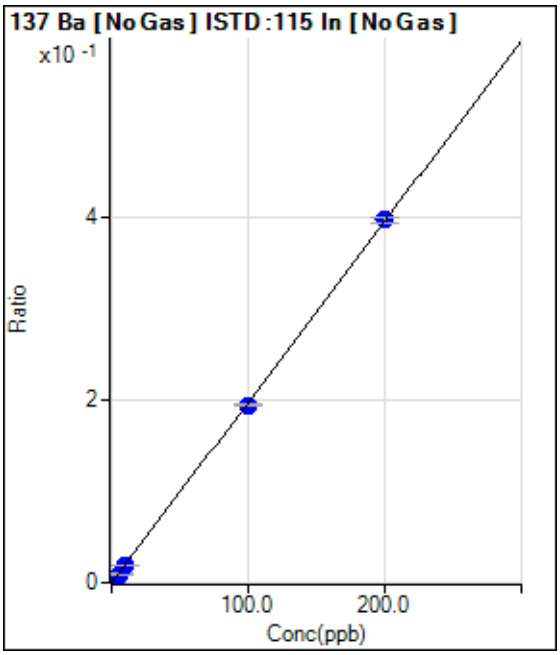
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0002	P	51.2
2	☐	2.000	2.087	7599.04	0.0206	P	4.6
3	☐	5.000	4.888	17542.00	0.0480	P	1.3
4	☐	10.000	9.651	34559.36	0.0945	P	2.7
5	☐	100.000	98.326	358763.72	0.9608	P	1.6
6	☐	200.000	200.856	726999.15	1.9623	P	2.0

y = 0.0098 * x + 2.4024E-004
R = 1.0000
DL = 0.0378
BEC = 0.02459

Weight: <None>
Min Conc: <None>

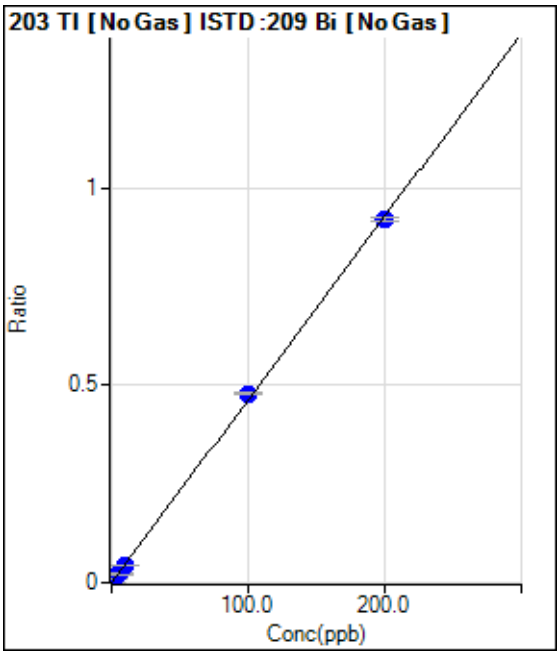


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0001	P	13.8
2	☐	2.000	1.905	3663.94	0.0039	P	4.4
3	☐	5.000	4.646	8743.11	0.0093	P	4.1
4	☐	10.000	9.542	17545.46	0.0190	P	3.5
5	☐	100.000	98.043	177882.39	0.1936	P	1.0
6	☐	200.000	201.011	359865.81	0.3968	P	1.5

y = 0.0020 * x + 1.4575E-004
R = 0.9999
DL = 0.03062
BEC = 0.07386

Weight: <None>
Min Conc: <None>

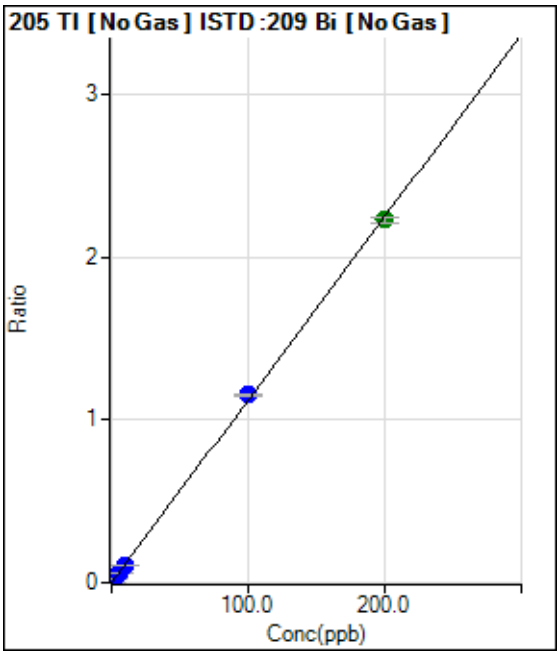
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	39.3
2	☐	2.000	1.999	6992.09	0.0093	P	7.1
3	☐	5.000	4.718	16320.97	0.0219	P	1.8
4	☐	10.000	9.785	33428.39	0.0454	P	2.3
5	☐	100.000	103.466	354491.03	0.4792	P	1.3
6	☐	200.000	198.285	656399.82	0.9182	P	1.2

y = 0.0046 * x + 7.1449E-005
R = 0.9998
DL = 0.01821
BEC = 0.01543

Weight: <None>
Min Conc: <None>

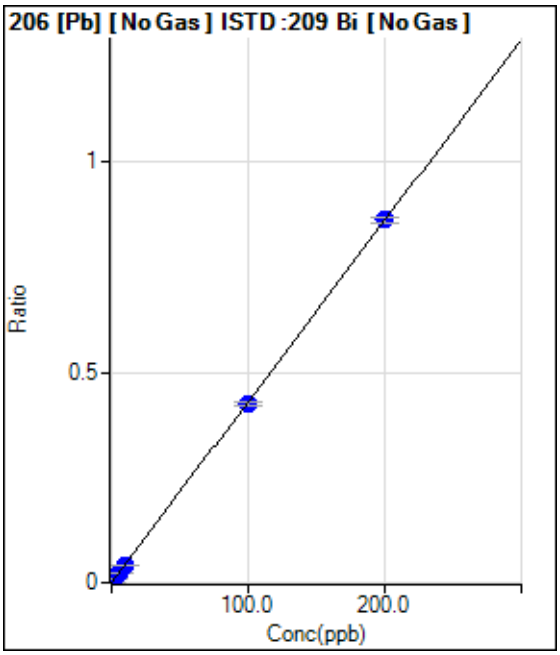


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.34	0.0001	P	21.6
2	☐	2.000	2.014	17075.29	0.0228	P	1.7
3	☐	5.000	4.810	40339.08	0.0542	P	1.3
4	☐	10.000	9.754	80821.65	0.1097	P	2.0
5	☐	100.000	102.995	856038.94	1.1571	P	1.1
6	☐	200.000	198.519	1594084.51	2.2302	A	1.9

y = 0.0112 * x + 1.3810E-004
R = 0.9998
DL = 0.00797
BEC = 0.01229

Weight: <None>
Min Conc: <None>

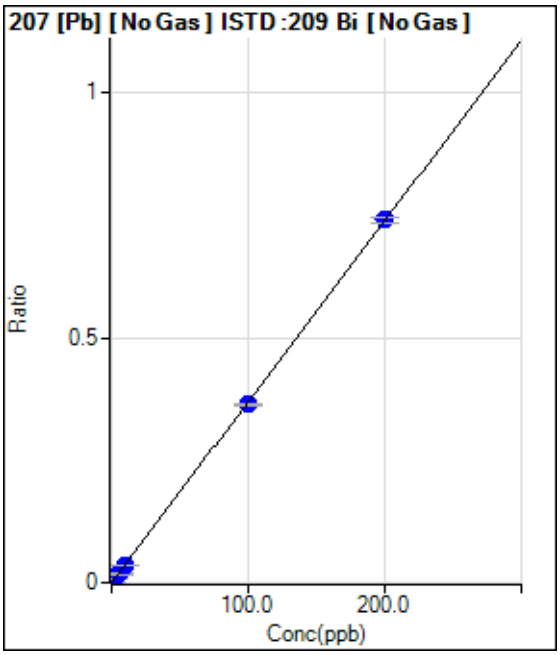
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0001	P	33.1
2	☐	2.000	1.957	6395.07	0.0085	P	3.9
3	☐	5.000	4.938	15897.05	0.0213	P	2.7
4	☐	10.000	9.710	30851.91	0.0419	P	0.6
5	☐	100.000	99.067	315373.47	0.4263	P	1.8
6	☐	200.000	200.483	616578.22	0.8626	P	1.9

y = 0.0043 * x + 1.0266E-004
R = 1.0000
DL = 0.02368
BEC = 0.02386

Weight: <None>
Min Conc: <None>

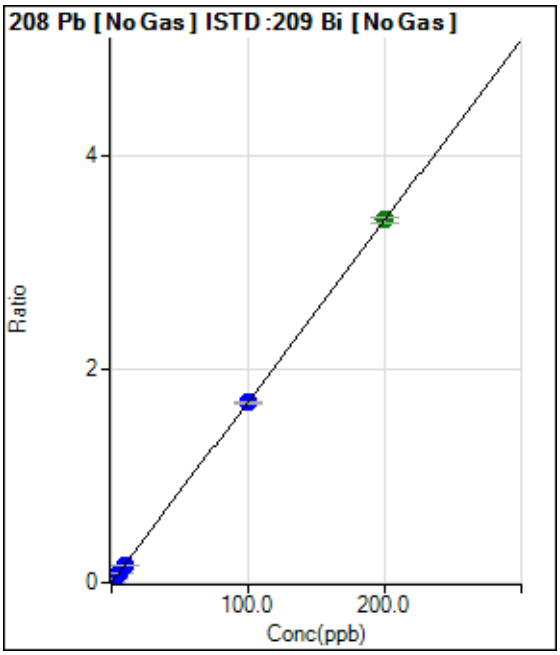


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0001	P	46.6
2	☐	2.000	1.961	5491.32	0.0073	P	7.2
3	☐	5.000	4.845	13370.79	0.0180	P	5.0
4	☐	10.000	9.742	26525.26	0.0360	P	3.8
5	☐	100.000	98.630	269074.90	0.3637	P	1.3
6	☐	200.000	200.702	528934.16	0.7400	P	1.9

y = 0.0037 * x + 8.9351E-005
R = 1.0000
DL = 0.03386
BEC = 0.02424

Weight: <None>
Min Conc: <None>

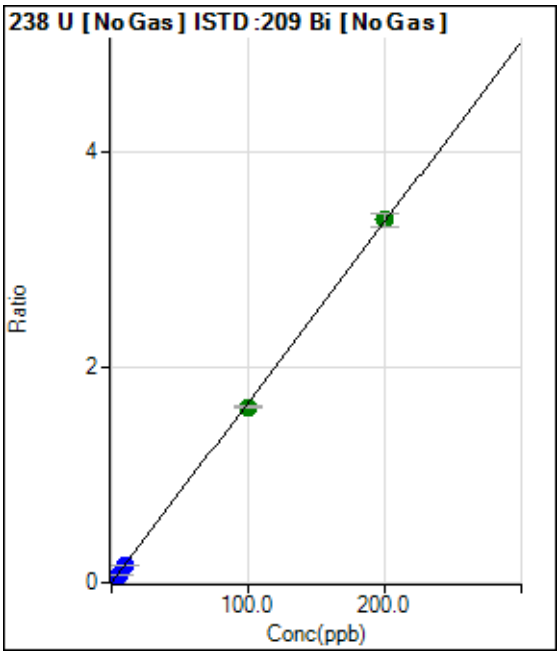
Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0004	P	6.4
2	☐	2.000	1.973	25477.38	0.0340	P	1.5
3	☐	5.000	4.819	61319.58	0.0823	P	1.9
4	☐	10.000	9.752	122423.70	0.1662	P	1.2
5	☐	100.000	99.311	1248983.98	1.6882	P	1.1
6	☐	200.000	200.362	2434278.90	3.4056	A	1.9

y = 0.0170 * x + 4.3242E-004
R = 1.0000
DL = 0.004923
BEC = 0.02544

Weight: <None>
Min Conc: <None>

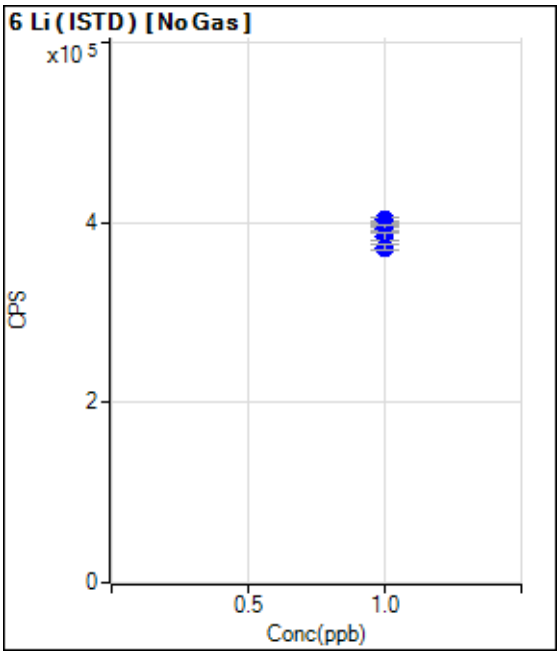


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	173.2
2	☐	2.000	1.887	23693.34	0.0316	P	3.5
3	☐	5.000	4.507	56165.88	0.0754	P	2.6
4	☐	10.000	9.210	113534.65	0.1541	P	2.5
5	☐	100.000	97.510	1206967.20	1.6315	A	1.5
6	☐	200.000	201.298	2406642.94	3.3680	A	3.7

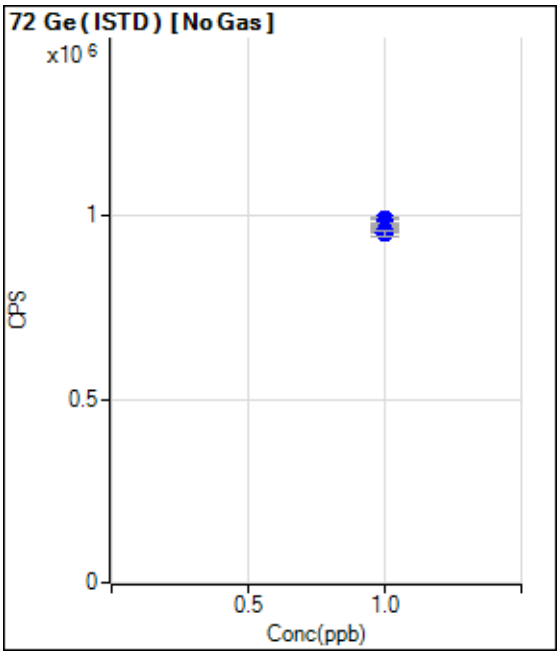
y = 0.0167 * x + 1.3365E-005
R = 0.9999
DL = 0.004151
BEC = 0.0007988

Weight: <None>
Min Conc: <None>

Calibration for 028_ICV.d

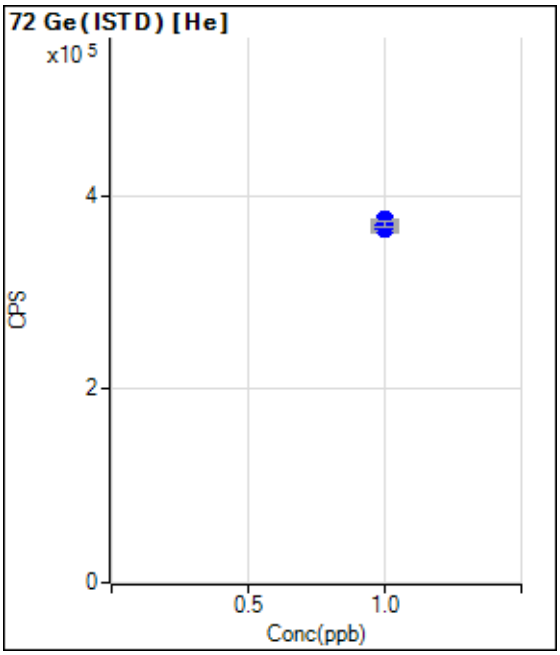


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		402857.26		P	1.4
2	☐	1.000		399293.43		P	0.8
3	☐	1.000		396560.99		P	1.3
4	☐	1.000		393240.20		P	1.8
5	☐	1.000		384415.67		P	1.9
6	☐	1.000		372059.29		P	1.5

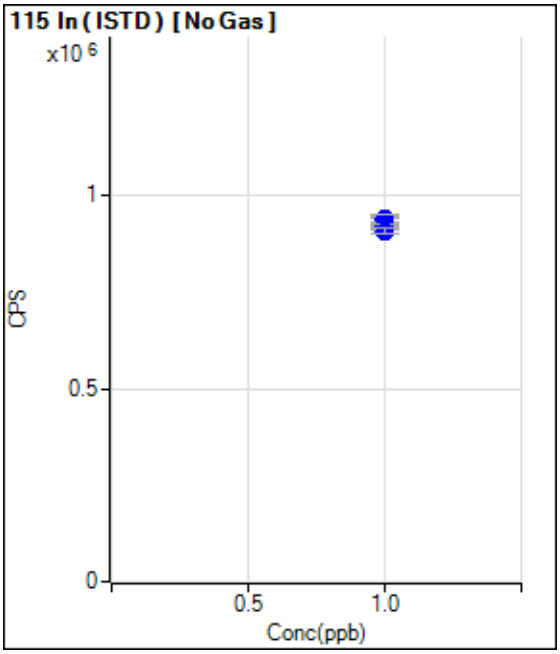


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		988333.81		P	1.7
2	☐	1.000		979512.04		M	2.7
3	☐	1.000		978089.88		P	0.7
4	☐	1.000		957514.81		P	1.1
5	☐	1.000		957847.62		P	2.7
6	☐	1.000		951190.35		P	1.4

Calibration for 028_ICV.d

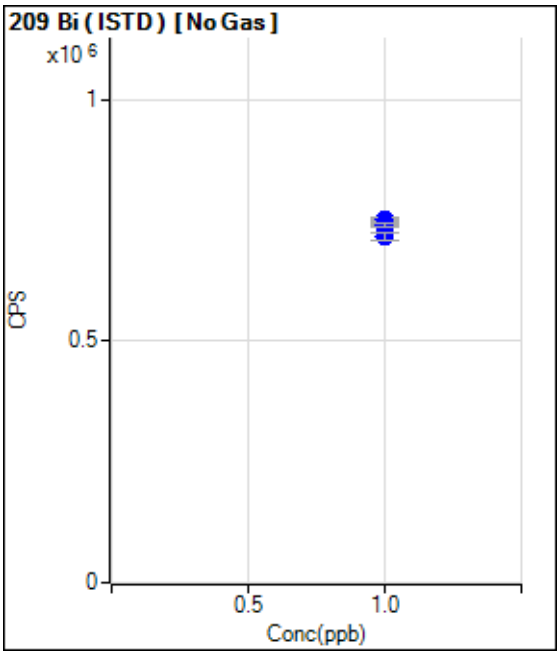


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		375282.73		P	0.5
2	☐	1.000		368515.87		P	1.3
3	☐	1.000		365608.68		P	1.8
4	☐	1.000		365673.00		P	1.2
5	☐	1.000		373464.42		P	1.3
6	☐	1.000		370562.59		P	1.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		936504.41		P	1.4
2	☐	1.000		938821.60		P	1.7
3	☐	1.000		938300.48		P	2.5
4	☐	1.000		924517.44		P	1.0
5	☐	1.000		918810.34		P	1.6
6	☐	1.000		907073.32		P	1.8

Calibration for 028_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		747547.88		P	0.8
2	☐	1.000		750175.20		P	1.3
3	☐	1.000		744701.40		P	0.4
4	☐	1.000		736756.21		P	0.8
5	☐	1.000		739882.33		P	1.3
6	☐	1.000		715000.17		P	2.6

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	021CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:26:03-06:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	25209	0.00
Be	9	1	No Gas	27	246.93
V	51	2	He	1432	0.46
Cr	52	2	He	11482	0.04
Fe	56	2	He	21150	0.01
Se	78	2	He	177	2.67
As	75	2	He	168	6.52
Ca	44	2	He	1407	0.55
Na	23	2	He	108425	0.00
Mg	24	2	He	1337	0.48
K	39	2	He	149694	0.00
Mn	55	2	He	2077	0.29
Co	59	2	He	120	13.89
Ni	60	2	He	267	1.62
Cu	63	2	He	173279	0.00
Zn	66	2	He	837	1.28
Al	27	2	He	887	0.70
B	11	1	No Gas	5459	0.06
Al	27	1	No Gas	18060	0.02
Si	28	1	No Gas	228709	0.00
Ag	107	1	No Gas	27	292.73
Cd	111	1	No Gas	10	1000.00
Sr	88	1	No Gas	307	2.68
Mo	95	1	No Gas	43	122.99
Sn	118	1	No Gas	913	0.96
Sb	121	1	No Gas	137	24.14
Ba	137	1	No Gas	137	11.15
Tl	205	1	No Gas	103	21.63
Tl	203	1	No Gas	53	73.18
Pb	208	1	No Gas	323	2.21
U	238	1	No Gas	10	1732.05
Ca	43	2	He	30	111.11
Sb	121	2	He	90	56.58
Ti	47	2	He	23	280.57
Cu	63	1	No Gas	387570	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	402857	1.36
Ge	72	2	He	375283	0.51
Ge	72	1	No Gas	988334	1.69
In	115	1	No Gas	936504	1.36

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	747548	0.84

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	022CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:28:03-06:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	021CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	4056	0.15
V	51	2	He	8214	0.02
Cr	52	2	He	18877	0.01
Fe	56	2	He	727937	0.00
Se	78	2	He	289	0.60
As	75	2	He	1719	0.09
Ca	44	2	He	6695	0.05
Na	23	2	He	257937	0.00
Mg	24	2	He	90816	0.00
K	39	2	He	263984	0.00
Mn	55	2	He	7919	0.05
Co	59	2	He	10498	0.03
Ni	60	2	He	2667	0.43
Cu	63	2	He	183744	0.00
Zn	66	2	He	2180	0.20
Al	27	2	He	1447	0.41
B	11	1	No Gas	17636	0.00
Al	27	1	No Gas	30397	0.01
Si	28	1	No Gas	267271	0.00
Ag	107	1	No Gas	12366	0.02
Cd	111	1	No Gas	2534	0.25
Sr	88	1	No Gas	23882	0.01
Mo	95	1	No Gas	4868	0.02
Sn	118	1	No Gas	7906	0.08
Sb	121	1	No Gas	11489	0.01
Ba	137	1	No Gas	3664	0.07
Tl	205	1	No Gas	17075	0.01
Tl	203	1	No Gas	6992	0.08
Pb	208	1	No Gas	25477	0.00
U	238	1	No Gas	23693	0.01
Ca	43	2	He	327	3.79
Sb	121	2	He	7599	0.05
Cu	63	1	No Gas	400762	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	399293	0.77	402857	99.12	70	120	
Ge	72	2	He	368516	1.27	375283	98.20	70	120	
Ge	72	1	No Gas	979512	2.66	988334	99.11	70	120	

Calibration Standard Report

In	115	1	No Gas	938822	1.73	936504	100.25	70	120	
Bi	209	1	No Gas	750175	1.30	747548	100.35	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	023CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:30:02-06:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	021CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	9660	0.03
V	51	2	He	17637	0.01
Cr	52	2	He	29846	0.01
Fe	56	2	He	1741523	0.00
Se	78	2	He	511	1.76
As	75	2	He	3901	0.01
Ca	44	2	He	13951	0.01
Na	23	2	He	461684	0.00
Mg	24	2	He	216919	0.00
K	39	2	He	423441	0.00
Mn	55	2	He	15933	0.02
Co	59	2	He	24549	0.02
Ni	60	2	He	6315	0.03
Cu	63	2	He	194535	0.00
Zn	66	2	He	4457	0.18
Al	27	2	He	2127	0.20
B	11	1	No Gas	36172	0.01
Al	27	1	No Gas	49679	0.00
Si	28	1	No Gas	325150	0.00
Ag	107	1	No Gas	30529	0.00
Cd	111	1	No Gas	5982	0.05
Sr	88	1	No Gas	57949	0.00
Mo	95	1	No Gas	11856	0.01
Sn	118	1	No Gas	17599	0.02
Sb	121	1	No Gas	27436	0.01
Ba	137	1	No Gas	8743	0.07
Tl	205	1	No Gas	40339	0.00
Tl	203	1	No Gas	16321	0.01
Pb	208	1	No Gas	61320	0.00
U	238	1	No Gas	56166	0.00
Ca	43	2	He	767	1.21
Sb	121	2	He	17542	0.01
Cu	63	1	No Gas	422997	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	396561	1.30	402857	98.44	70	120	
Ge	72	2	He	365609	1.78	375283	97.42	70	120	
Ge	72	1	No Gas	978090	0.70	988334	98.96	70	120	

Calibration Standard Report

In	115	1	No Gas	938300	2.55	936504	100.19	70	120	
Bi	209	1	No Gas	744701	0.37	747548	99.62	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	024CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:32:02-06:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	021CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	19691	0.01
V	51	2	He	34332	0.00
Cr	52	2	He	49159	0.00
Fe	56	2	He	3400264	0.00
Se	78	2	He	809	0.20
As	75	2	He	7793	0.02
Ca	44	2	He	26960	0.01
Na	23	2	He	803496	0.00
Mg	24	2	He	433603	0.00
K	39	2	He	698344	0.00
Mn	55	2	He	30331	0.01
Co	59	2	He	47985	0.00
Ni	60	2	He	12059	0.02
Cu	63	2	He	213748	0.00
Zn	66	2	He	7756	0.02
Al	27	2	He	3427	0.08
B	11	1	No Gas	68346	0.00
Al	27	1	No Gas	82002	0.00
Si	28	1	No Gas	414966	0.00
Ag	107	1	No Gas	59976	0.00
Cd	111	1	No Gas	12573	0.03
Sr	88	1	No Gas	114863	0.00
Mo	95	1	No Gas	23364	0.02
Sn	118	1	No Gas	34332	0.00
Sb	121	1	No Gas	55508	0.00
Ba	137	1	No Gas	17545	0.02
Tl	205	1	No Gas	80822	0.00
Tl	203	1	No Gas	33428	0.01
Pb	208	1	No Gas	122424	0.00
U	238	1	No Gas	113535	0.00
Ca	43	2	He	1530	0.34
Sb	121	2	He	34559	0.01
Cu	63	1	No Gas	461231	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	393240	1.75	402857	97.61	70	120	
Ge	72	2	He	365673	1.23	375283	97.44	70	120	
Ge	72	1	No Gas	957515	1.08	988334	96.88	70	120	

Calibration Standard Report

In	115	1	No Gas	924517	1.01	936504	98.72	70	120	
Bi	209	1	No Gas	736756	0.84	747548	98.56	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	025CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:34:01-06:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	021CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	202367	0.00
V	51	2	He	343682	0.00
Cr	52	2	He	390301	0.00
Fe	56	2	He	34481865	0.00
Se	78	2	He	7527	0.02
As	75	2	He	77422	0.00
Ca	44	2	He	265652	0.00
Na	23	2	He	7255638	0.00
Mg	24	2	He	4285043	0.00
K	39	2	He	5698585	0.00
Mn	55	2	He	297638	0.00
Co	59	2	He	502146	0.00
Ni	60	2	He	124161	0.00
Cu	63	2	He	511503	0.00
Zn	66	2	He	77552	0.00
Al	27	2	He	27791	0.00
B	11	1	No Gas	651943	0.00
Al	27	1	No Gas	681463	0.00
Si	28	1	No Gas	2101060	0.00
Ag	107	1	No Gas	615099	0.00
Cd	111	1	No Gas	126484	0.00
Sr	88	1	No Gas	1181526	0.00
Mo	95	1	No Gas	236387	0.00
Sn	118	1	No Gas	348563	0.00
Sb	121	1	No Gas	561940	0.00
Ba	137	1	No Gas	177882	0.00
Tl	205	1	No Gas	856039	0.00
Tl	203	1	No Gas	354491	0.00
Pb	208	1	No Gas	1248984	0.00
U	238	1	No Gas	1206967	0.00
Ca	43	2	He	15309	0.02
Sb	121	2	He	358764	0.00
Cu	63	1	No Gas	949193	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	384416	1.89	402857	95.42	70	120	
Ge	72	2	He	373464	1.26	375283	99.52	70	120	
Ge	72	1	No Gas	957848	2.74	988334	96.92	70	120	

Calibration Standard Report

In	115	1	No Gas	918810	1.62	936504	98.11	70	120	
Bi	209	1	No Gas	739882	1.31	747548	98.97	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	026CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:35:58-06:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	021CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	400117	0.00
V	51	2	He	687678	0.00
Cr	52	2	He	759222	0.00
Fe	56	2	He	67504231	0.00
Se	78	2	He	14799	0.01
As	75	2	He	153832	0.00
Ca	44	2	He	533435	0.00
Na	23	2	He	14029499	0.00
Mg	24	2	He	8304600	0.00
K	39	2	He	11312447	0.00
Mn	55	2	He	580329	0.00
Co	59	2	He	1013729	0.00
Ni	60	2	He	243463	0.00
Cu	63	2	He	841829	0.00
Zn	66	2	He	152207	0.00
Al	27	2	He	54307	0.00
B	11	1	No Gas	1289573	0.00
Al	27	1	No Gas	1273349	0.00
Si	28	1	No Gas	3894304	0.00
Ag	107	1	No Gas	1168401	0.00
Cd	111	1	No Gas	250903	0.00
Sr	88	1	No Gas	2327654	0.00
Mo	95	1	No Gas	473078	0.00
Sn	118	1	No Gas	700130	0.00
Sb	121	1	No Gas	1154007	0.00
Ba	137	1	No Gas	359866	0.00
Tl	205	1	No Gas	1594085	0.00
Tl	203	1	No Gas	656400	0.00
Pb	208	1	No Gas	2434279	0.00
U	238	1	No Gas	2406643	0.00
Ca	43	2	He	31166	0.01
Sb	121	2	He	726999	0.00
Cu	63	1	No Gas	1532658	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	372059	1.50	402857	92.36	70	120	
Ge	72	2	He	370563	1.91	375283	98.74	70	120	
Ge	72	1	No Gas	951190	1.42	988334	96.24	70	120	

Calibration Standard Report

In	115	1	No Gas	907073	1.79	936504	96.86	70	120	
Bi	209	1	No Gas	715000	2.57	747548	95.65	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	028_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:40:32-06:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	98.670	1.922	617193	1.70	100	98.7	90	110	
Be	9	1	No Gas	97.061	1.192	208582	1.29	100	97.1	90	110	
V	51	2	He	101.517	1.031	358189	0.81	100	101.5	90	110	
Cr	52	2	He	101.994	1.292	403529	1.00	100	102.0	90	110	
Fe	56	2	He	9969.779	2.766	34628969	1.24	10000	99.7	90	110	
Se	78	2	He	100.135	1.376	7688	0.57	100	100.1	90	110	
As	75	2	He	105.820	1.666	83545	0.84	100	105.8	90	110	
Ca	44	2	He	9954.409	1.698	272344	0.86	10000	99.5	90	110	
Na	23	2	He	10101.971	4.577	7351610	3.22	10000	101.0	90	110	
Mg	24	2	He	10103.833	2.514	4326278	2.04	10000	101.0	90	110	
K	39	2	He	10030.357	1.642	5882803	0.71	10000	100.3	90	110	
Mn	55	2	He	102.050	2.183	305686	0.82	100	102.0	90	110	
Co	59	2	He	100.340	2.912	520146	1.51	100	100.3	90	110	
Ni	60	2	He	102.911	3.289	128932	1.75	100	102.9	90	110	
Cu	63	2	He	91.739	2.390	491763	0.24	100	91.7	90	110	
Zn	66	2	He	102.340	0.609	80415	0.98	100	102.3	90	110	
Al	27	2	He	106.210	2.525	30003	1.30	100	106.2	90	110	
B	11	1	No Gas	475.228	1.233	660558	1.10	500	95.0	90	110	
Al	27	1	No Gas	107.402	2.076	716794	0.77	100	107.4	90	110	
Si	28	1	No Gas	552.419	2.901	2315882	2.09	500	110.5	90	110	ICV Main CR1 Failed
Ag	107	1	No Gas	102.793	0.526	637428	0.99	100	102.8	90	110	
Cd	111	1	No Gas	101.048	2.113	133360	2.47	100	101.0	90	110	
Sr	88	1	No Gas	100.497	0.139	1232262	1.09	100	100.5	90	110	
Mo	95	1	No Gas	98.616	0.313	244977	1.43	100	98.6	90	110	
Sn	118	1	No Gas	99.335	1.359	365267	1.10	100	99.3	90	110	
Sb	121	1	No Gas	101.509	3.738	596995	2.63	100	101.5	90	110	
Ba	137	1	No Gas	98.056	1.513	184931	1.56	100	98.1	90	110	
Tl	205	1	No Gas	105.757	1.674	884372	1.59	100	105.8	90	110	
Tl	203	1	No Gas	107.426	1.162	370301	1.06	100	107.4	90	110	
Pb	208	1	No Gas	101.376	1.308	1282763	1.21	100	101.4	90	110	
U	238	1	No Gas	98.576	1.610	1227699	1.73	100	98.6	90	110	
Ca	43	2	He	10132.649	1.704	16133	0.99	10000	101.3	90	110	
Sb	121	2	He	103.065	2.042	382801	0.77	100	103.1	90	110	
Ti	47	2	He	103.122	3.110	15262	3.36	100	103.1	90	110	
Cu	63	1	No Gas	85.393	3.967	889695	0.96	100	85.4	90	110	ICV Main CR1 Failed
Se	82	1	No Gas	99.899	0.836	10976	1.62	100	99.9	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	401300	0.23	402857	99.61	70	120	
Ge	72	2	He	380196	1.55	375283	101.31	70	120	
Ge	72	1	No Gas	976102	1.34	988334	98.76	70	120	
In	115	1	No Gas	955069	1.22	936504	101.98	70	120	
Bi	209	1	No Gas	744355	0.55	747548	99.57	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	029LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:42:29-06:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	021CALB.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	1.990	1.990	6.45	37413	0.01	2	
Be	9	1	No Gas	1.829	1.829	1.27	3994	0.05	2	
V	51	2	He	1.940	1.940	3.82	8190	0.02	2	
Cr	52	2	He	1.908	1.908	11.19	18783	0.01	2	
Fe	56	2	He	202.205	202.205	1.96	716578	0.03	200	
Se	78	2	He	1.590	1.590	26.55	295	0.54	2	
As	75	2	He	1.990	1.990	8.09	1721	0.12	2	
Ca	44	2	He	188.679	188.679	3.61	6498	2.90	200	
Na	23	2	He	209.204	209.204	0.68	257386	0.08	200	
Mg	24	2	He	206.850	206.850	1.96	89048	0.23	200	
K	39	2	He	205.033	205.033	2.19	266245	0.08	200	
Mn	55	2	He	1.819	1.819	5.65	7446	0.02	2	
Co	59	2	He	1.968	1.968	1.23	10227	0.02	2	
Ni	60	2	He	2.026	2.026	7.67	2777	0.07	2	
Cu	63	2	He	-1.147	-1.147	-10.56	169944	0.00	2	NewName Main CR1 Failed
Zn	66	2	He	1.780	1.780	6.55	2210	0.08	2	
Al	27	2	He	1.339	1.339	35.91	1253	0.11	2	NewName Main CR1 Failed
B	11	1	No Gas	15.661	15.661	0.48	27290	0.06	10	NewName Main CR1 Failed
Al	27	1	No Gas	2.085	2.085	2.89	31513	0.01	2	
Si	28	1	No Gas	12.600	12.600	1.77	274527	0.00	10	
Ag	107	1	No Gas	2.018	2.018	0.61	12533	0.02	2	
Cd	111	1	No Gas	1.992	1.992	7.29	2637	0.08	2	
Sr	88	1	No Gas	1.925	1.925	1.65	23898	0.01	2	
Mo	95	1	No Gas	2.018	2.018	3.81	5054	0.04	2	
Sn	118	1	No Gas	1.999	1.999	1.87	8259	0.02	2	
Sb	121	1	No Gas	1.941	1.941	2.53	11592	0.02	2	
Ba	137	1	No Gas	1.935	1.935	4.61	3784	0.05	2	
Tl	205	1	No Gas	2.231	2.231	2.92	19138	0.01	2	
Tl	203	1	No Gas	2.307	2.307	6.43	8160	0.03	2	
Pb	208	1	No Gas	1.983	1.983	3.41	25914	0.01	2	
U	238	1	No Gas	1.839	1.839	2.83	23369	0.01	2	
Ca	43	2	He	171.510	171.510	19.78	300	57.17	200	
Sb	121	2	He	2.014	2.014	1.25	7499	0.03	2	
Ti	47	2	He	1.867	1.867	5.79	297	0.63	200	
Cu	63	1	No Gas	-2.077	-2.077	-27.92	371795	0.00	2	NewName Main CR1 Failed
Se	82	1	No Gas	2.596	2.596	31.78	272	0.96	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	405197	1.40	402857	100.58	70	120	
Ge	72	2	He	376552	0.21	375283	100.34	70	120	
Ge	72	1	No Gas	979444	0.20	988334	99.10	70	120	
In	115	1	No Gas	954672	0.51	936504	101.94	70	120	
Bi	209	1	No Gas	759188	1.10	747548	101.56	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	030LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:44:28-06:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	021CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.610	4.610	2.74	52842	0.01	5	
Be	9	1	No Gas	4.502	4.502	2.22	9710	0.05	5	
V	51	2	He	4.784	4.784	0.55	17898	0.03	5	
Cr	52	2	He	4.764	4.764	3.89	29338	0.02	5	
Fe	56	2	He	504.176	504.176	1.22	1736440	0.03	500	
Se	78	2	He	4.452	4.452	10.66	503	0.89	5	
As	75	2	He	4.800	4.800	1.53	3873	0.12	5	
Ca	44	2	He	477.774	477.774	0.69	14141	3.38	500	
Na	23	2	He	501.620	501.620	2.74	460162	0.11	500	
Mg	24	2	He	509.593	509.593	0.56	215121	0.24	500	
K	39	2	He	491.786	491.786	2.08	423997	0.12	500	
Mn	55	2	He	4.643	4.643	4.38	15599	0.03	5	
Co	59	2	He	4.713	4.713	2.58	24062	0.02	5	
Ni	60	2	He	4.921	4.921	4.27	6295	0.08	5	
Cu	63	2	He	2.366	2.366	15.91	180012	0.00	5	NewName2 Main CR1 Failed
Zn	66	2	He	4.576	4.576	2.68	4317	0.11	5	
Al	27	2	He	4.656	4.656	16.56	2130	0.22	5	
B	11	1	No Gas	24.918	24.918	4.93	39816	0.06	25	
Al	27	1	No Gas	4.884	4.884	6.70	49478	0.01	5	
Si	28	1	No Gas	25.556	25.556	6.22	321743	0.01	25	
Ag	107	1	No Gas	4.955	4.955	1.00	30389	0.02	5	
Cd	111	1	No Gas	4.832	4.832	5.10	6308	0.08	5	
Sr	88	1	No Gas	4.701	4.701	2.65	57246	0.01	5	
Mo	95	1	No Gas	4.639	4.639	3.72	11429	0.04	5	
Sn	118	1	No Gas	4.635	4.635	8.37	17709	0.03	5	
Sb	121	1	No Gas	4.738	4.738	1.13	27930	0.02	5	
Ba	137	1	No Gas	4.790	4.790	5.84	9053	0.05	5	
Tl	205	1	No Gas	4.689	4.689	1.90	39867	0.01	5	
Tl	203	1	No Gas	4.841	4.841	2.86	16982	0.03	5	
Pb	208	1	No Gas	4.667	4.667	2.09	60215	0.01	5	
U	238	1	No Gas	4.523	4.523	3.36	57140	0.01	5	
Ca	43	2	He	453.600	453.600	14.18	737	61.57	500	
Sb	121	2	He	4.748	4.748	0.47	17372	0.03	5	
Ti	47	2	He	4.374	4.374	4.53	657	0.67	5	
Cu	63	1	No Gas	1.420	1.420	58.94	390228	0.00	5	NewName2 Main CR1 Failed
Se	82	1	No Gas	4.969	4.969	23.85	531	0.94	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	401889	2.83	402857	99.76	70	120	
Ge	72	2	He	372573	0.69	375283	99.28	70	120	
Ge	72	1	No Gas	973550	1.20	988334	98.50	70	120	
In	115	1	No Gas	943811	1.89	936504	100.78	70	120	
Bi	209	1	No Gas	755044	0.72	747548	101.00	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	031_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:46:28-06:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	0.021	357.2	23914	2.3	0.5	
Be	9	1	No Gas	-0.002	-521.3	22	81.0	0.5	
V	51	2	He	0.339	7.2	2455	3.3	2.5	
Cr	52	2	He	2.255	7.3	18863	2.5	2.5	
Fe	56	2	He	2.172	7.4	26927	2.4	100	
Se	78	2	He	-0.396	-64.6	139	12.3	1	
As	75	2	He	0.108	35.1	237	11.2	2.5	
Ca	44	2	He	6.657	23.0	1493	3.2	100	
Na	23	2	He	19.369	5.8	115004	1.2	100	
Mg	24	2	He	0.572	74.8	1487	11.9	100	
K	39	2	He	16.839	9.3	149897	1.1	100	
Mn	55	2	He	-0.088	-8.1	1713	0.9	2.5	
Co	59	2	He	0.000	10362.2	113	22.2	2.5	
Ni	60	2	He	0.028	343.3	283	38.9	2.5	
Cu	63	2	He	32.275	1.8	266581	1.3	1	ICB Main CR1 Failed
Zn	66	2	He	0.128	89.6	880	8.9	2.5	
Al	27	2	He	0.975	84.4	1083	19.5	5	
B	11	1	No Gas	2.008	8.6	7777	4.0	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	0.822	14.6	21898	4.3	5	
Si	28	1	No Gas	1.897	45.8	220057	1.7	10	
Ag	107	1	No Gas	0.008	99.0	70	62.3	2.5	
Cd	111	1	No Gas	-0.002	-198.2	7	86.6	1	
Sr	88	1	No Gas	0.044	6.8	800	4.5	2.5	
Mo	95	1	No Gas	0.026	80.7	103	47.7	2.5	
Sn	118	1	No Gas	0.102	33.5	1233	9.4	5	
Sb	121	1	No Gas	0.065	14.8	487	11.7	2.5	
Ba	137	1	No Gas	0.089	27.2	290	15.0	2.5	
Tl	205	1	No Gas	0.046	14.0	483	10.2	1	
Tl	203	1	No Gas	0.045	37.7	203	27.1	1	
Pb	208	1	No Gas	0.011	51.5	453	16.6	2.5	
U	238	1	No Gas	0.002	66.0	33	45.8	2.5	
Ca	43	2	He	17.032	83.2	53	39.0	100	
Sb	121	2	He	0.084	16.4	373	12.1	2.5	
Ti	47	2	He	0.010	441.3	23	24.7	2.5	
Se	82	1	No Gas	0.341	65.1	21	108.5	1	

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	380247	1.08	402857	94.39	70	120	
Ge	72	2	He	353358	0.59	375283	94.16	70	120	
Ge	72	1	No Gas	921523	1.03	988334	93.24	70	120	
In	115	1	No Gas	902108	0.28	936504	96.33	70	120	
Bi	209	1	No Gas	732686	1.12	747548	98.01	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	033ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:50:49-06:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	0.161	43.7	25774	3.0	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.003	62.2	32	9.1	0	ICSA Main CR1 Failed
V	51	2	He	0.318	10.8	2561	4.3	0	ICSA Main CR1 Failed
Cr	52	2	He	1.181	11.0	16133	3.6	0	ICSA Main CR1 Failed
Fe	56	2	He	93570.687	1.1	324116695	0.6	0	
Se	78	2	He	-0.222	-167.0	162	17.3	0	ICSA Main CR1 Failed
As	75	2	He	0.432	21.7	509	13.9	0	ICSA Main CR1 Failed
Ca	44	2	He	93357.028	1.3	2536301	0.8	0	
Na	23	2	He	94969.742	1.3	68049932	1.0	0	
Mg	24	2	He	93892.035	2.5	40096066	1.9	0	
K	39	2	He	94159.824	2.4	53824544	1.8	0	
Mn	55	2	He	1.653	2.1	7005	1.3	0	ICSA Main CR1 Failed
Co	59	2	He	1.108	3.9	5851	3.3	0	ICSA Main CR1 Failed
Ni	60	2	He	1.032	1.5	1557	1.3	0	ICSA Main CR1 Failed
Cu	63	2	He	-10.068	-8.4	140482	1.9	0	ICSA Main CR1 Failed
Zn	66	2	He	1.716	18.4	2177	11.7	0	ICSA Main CR1 Failed
Al	27	2	He	89074.373	2.7	24353789	2.2	0	
B	11	1	No Gas	3.209	4.7	9745	2.9	0	
Al	27	1	No Gas	91150.190	0.8	581471951	1.8	0	
Si	28	1	No Gas	65.381	13.4	463894	7.3	0	
Ag	107	1	No Gas	0.049	15.3	310	14.8	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.920	6.6	1143	7.0	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	1.410	3.2	16427	3.9	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1855.133	2.8	4301319	3.6	0	
Sn	118	1	No Gas	0.043	42.7	1017	6.7	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.114	9.3	790	9.1	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	1.126	4.0	2110	2.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.015	36.7	220	20.8	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.006	92.9	70	24.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.677	3.3	8431	1.7	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.4	107	21.7	0	ICSA Main CR1 Failed
Ca	43	2	He	92232.237	2.3	146257	1.8	0	
Sb	121	2	He	0.107	7.0	487	5.2	0	ICSA Main CR1 Failed
Ti	47	2	He	1931.043	1.2	284675	0.7	0	
Se	82	1	No Gas	0.015	6358.0	-12	-862.4	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	396528	1.60	402857	98.43	70	120	
Ge	72	2	He	379270	0.57	375283	101.06	70	120	
Ge	72	1	No Gas	956581	1.33	988334	96.79	70	120	
In	115	1	No Gas	891447	0.93	936504	95.19	70	120	
Bi	209	1	No Gas	706781	1.70	747548	94.55	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	034ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T11:52:50-06:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	95.787	1.335	606347	0.84	100	95.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	92.538	1.355	200997	0.89	100	92.5	80	120	
V	51	2	He	101.209	1.668	356536	0.60	100	101.2	80	120	
Cr	52	2	He	101.251	0.626	400093	1.50	100	101.3	80	120	
Fe	56	2	He	109582.473	1.670	379886741	1.16	100	109582.5	80	120	ICSB Main CR1 Failed
Se	78	2	He	100.115	2.860	7673	0.93	100	100.1	80	120	
As	75	2	He	100.887	1.895	79539	1.62	100	100.9	80	120	
Ca	44	2	He	110848.499	4.359	3012651	2.60	100	110848.5	80	120	ICSB Main CR1 Failed
Na	23	2	He	113409.715	1.419	81307904	0.70	100	113409.7	80	120	ICSB Main CR1 Failed
Mg	24	2	He	111915.673	1.863	47831341	0.33	100	111915.7	80	120	ICSB Main CR1 Failed
K	39	2	He	113333.179	1.926	64805436	0.08	100	113333.2	80	120	ICSB Main CR1 Failed
Mn	55	2	He	102.797	1.702	307464	1.11	100	102.8	80	120	
Co	59	2	He	97.643	1.944	505450	0.92	100	97.6	80	120	
Ni	60	2	He	97.372	2.503	121840	1.81	100	97.4	80	120	
Cu	63	2	He	78.140	3.207	444195	0.93	100	78.1	80	120	
Zn	66	2	He	100.756	3.006	79054	2.57	100	100.8	80	120	
Al	27	2	He	97387.311	1.025	26652020	1.55	100	97387.3	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	482.150	1.660	677283	0.89	100	482.2	80	120	
Al	27	1	No Gas	98801.362	2.661	646344684	1.76	100	98801.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	591.092	3.612	2475135	3.16	100	591.1	80	120	
Ag	107	1	No Gas	99.010	0.369	585325	0.57	100	99.0	80	120	
Cd	111	1	No Gas	100.025	0.530	125850	1.08	100	100.0	80	120	
Sr	88	1	No Gas	102.601	2.510	1199295	2.29	100	102.6	80	120	
Mo	95	1	No Gas	2076.322	1.110	4916361	1.51	100	2076.3	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	99.367	1.673	348349	1.53	100	99.4	80	120	
Sb	121	1	No Gas	97.023	1.583	573736	1.84	100	97.0	80	120	
Ba	137	1	No Gas	100.185	3.402	180135	3.52	100	100.2	80	120	
Tl	205	1	No Gas	94.299	0.697	757116	1.49	100	94.3	80	120	
Tl	203	1	No Gas	95.745	1.371	316859	1.38	100	95.7	80	120	
Pb	208	1	No Gas	99.507	1.321	1208750	0.42	100	99.5	80	120	
U	238	1	No Gas	97.484	1.334	1165578	1.32	100	97.5	80	120	
Ca	43	2	He	112075.834	3.175	177836	1.68	100	112075.8	80	120	ICSB Main CR1 Failed
Sb	121	2	He	98.421	2.401	364992	1.31	100	98.4	80	120	
Ti	47	2	He	2189.160	1.852	322969	0.19	100	2189.2	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	73.301	1.975	822258	0.36	100	73.3	80	120	
Se	82	1	No Gas	98.795	2.694	10909	1.81	100	98.8	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	405673	1.91	402857	100.70	70	120	
Ge	72	2	He	379634	1.97	375283	101.16	70	120	
Ge	72	1	No Gas	981180	1.30	988334	99.28	70	120	
In	115	1	No Gas	910495	0.64	936504	97.22	70	120	
Bi	209	1	No Gas	714631	0.98	747548	95.60	70	120	

Sample Report

Sample Table

Sample Name	MBLK-189410
Data File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:07:33-06:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	-0.030	-0.030	-331.33	24383	0.00	2000	
Be	9	1	No Gas	-0.002	-0.002	-410.44	22	-0.01	2000	
V	51	2	He	0.444	0.444	10.87	2934	0.02	2000	
Cr	52	2	He	2.676	2.676	4.93	21354	0.01	2000	
Fe	56	2	He	-0.138	-0.138	-8.73	20416	0.00	200000	
Se	78	2	He	-0.397	-0.397	-34.34	145	-0.27	2000	
As	75	2	He	0.133	0.133	13.82	268	0.05	2000	
Ca	44	2	He	-10.344	-10.344	-58.21	1113	-0.93	200000	
Na	23	2	He	25.980	25.980	7.22	125197	0.02	200000	
Mg	24	2	He	-2.151	-2.151	-11.21	423	-0.51	200000	
K	39	2	He	-15.859	-15.859	-15.37	138954	-0.01	200000	
Mn	55	2	He	-0.436	-0.436	-6.19	787	-0.06	2000	
Co	59	2	He	-0.008	-0.008	-99.57	77	-0.01	2000	
Ni	60	2	He	-0.156	-0.156	-8.51	73	-0.21	2000	
Cu	63	2	He	-28.605	-28.605	-1.81	74946	-0.04	2000	
Zn	66	2	He	-0.360	-0.360	-7.57	553	-0.06	2000	
Al	27	2	He	-1.045	-1.045	-16.19	597	-0.18	2000	
B	11	1	No Gas	2.339	2.339	15.13	8469	0.03	2000	
Al	27	1	No Gas	-0.928	-0.928	-3.28	11452	-0.01	2000	
Si	28	1	No Gas	-11.295	-11.295	-9.15	177796	-0.01	2000	
Ag	107	1	No Gas	0.002	0.002	152.71	40	0.01	2000	
Cd	111	1	No Gas	0.000	0.000	-196438.45	10	0.00	2000	
Sr	88	1	No Gas	0.010	0.010	43.08	427	0.00	2000	
Mo	95	1	No Gas	0.015	0.015	56.18	80	0.02	2000	
Sn	118	1	No Gas	-0.064	-0.064	-34.65	683	-0.01	2000	
Sb	121	1	No Gas	0.059	0.059	46.15	470	0.01	2000	
Ba	137	1	No Gas	-0.038	-0.038	-32.52	67	-0.06	2000	
Tl	205	1	No Gas	0.036	0.036	37.31	413	0.01	2000	
Tl	203	1	No Gas	0.020	0.020	59.64	123	0.02	2000	
Pb	208	1	No Gas	-0.009	-0.009	-14.75	210	0.00	2000	
U	238	1	No Gas	0.004	0.004	47.43	63	0.01	2000	
Ca	43	2	He	2.496	2.496	405.20	33	7.49	200000	
Sb	121	2	He	0.078	0.078	12.59	373	0.02	2000	
Ti	47	2	He	-0.091	-0.091	-1.19	10	-0.91	2000	
Cu	63	1	No Gas	-37.539	-37.539	-3.17	155266	-0.02	2000	
Zn	66	1	No Gas	-0.207	-0.207	-52.51	1347	-0.02	2000	
Se	82	1	No Gas	-0.072	-0.072	-1165.61	-22	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	392407	0.42	402857	97.41	70	120	
Ge	72	2	He	370531	1.57	375283	98.73	70	120	
Ge	72	1	No Gas	947522	0.60	988334	95.87	70	120	
In	115	1	No Gas	938696	0.88	936504	100.23	70	120	

Sample Report

Bi	209	1	No Gas	754852	0.20	747548	100.98	70	120	

Sample Report

Sample Table

Sample Name	LCS-189410
Data File Name	154SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:09:34-06:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	-0.111	-0.111	-37.24	25588	0.00	2000	
Be	9	1	No Gas	49.930	49.930	1.13	112322	0.04	2000	
V	51	2	He	51.987	51.987	2.12	194250	0.03	2000	
Cr	52	2	He	51.491	51.491	1.84	220991	0.02	2000	
Fe	56	2	He	5199.910	5199.910	2.20	19068466	0.03	200000	
Se	78	2	He	51.543	51.543	3.58	4265	1.21	2000	
As	75	2	He	53.079	53.079	2.82	44297	0.12	2000	
Ca	44	2	He	5099.055	5099.055	0.71	147935	3.45	200000	
Na	23	2	He	5343.323	5343.323	1.94	4158041	0.13	200000	
Mg	24	2	He	5390.926	5390.926	2.25	2435920	0.22	200000	
K	39	2	He	5320.067	5320.067	0.95	3367444	0.16	200000	
Mn	55	2	He	52.156	52.156	2.02	165920	0.03	2000	
Co	59	2	He	50.896	50.896	1.50	278467	0.02	2000	
Ni	60	2	He	51.355	51.355	1.61	68037	0.08	2000	
Cu	63	2	He	7.526	7.526	10.52	212555	0.00	2000	
Zn	66	2	He	51.958	51.958	1.93	43527	0.12	2000	
Al	27	2	He	58.619	58.619	1.63	17899	0.33	2000	
B	11	1	No Gas	0.763	0.763	8.35	6793	0.01	2000	
Al	27	1	No Gas	62.825	62.825	3.39	439468	0.01	2000	
Si	28	1	No Gas	97.268	97.268	3.87	611692	0.02	2000	
Ag	107	1	No Gas	57.317	57.317	1.99	357560	0.02	2000	
Cd	111	1	No Gas	53.041	53.041	1.79	70425	0.08	2000	
Sr	88	1	No Gas	0.080	0.080	21.64	1307	0.01	2000	
Mo	95	1	No Gas	51.032	51.032	2.39	127544	0.04	2000	
Sn	118	1	No Gas	-0.132	-0.132	-18.04	450	-0.03	2000	
Sb	121	1	No Gas	51.018	51.018	2.68	309151	0.02	2000	
Ba	137	1	No Gas	51.779	51.779	2.25	98304	0.05	2000	
Tl	205	1	No Gas	46.248	46.248	1.10	403118	0.01	2000	
Tl	203	1	No Gas	46.653	46.653	1.24	167631	0.03	2000	
Pb	208	1	No Gas	51.543	51.543	0.30	679951	0.01	2000	
U	238	1	No Gas	0.002	0.002	134.40	30	0.01	2000	
Ca	43	2	He	5013.631	5013.631	4.33	8436	59.43	200000	
Sb	121	2	He	50.961	50.961	3.02	199716	0.03	2000	
Ti	47	2	He	49.895	49.895	2.78	7806	0.64	2000	
Cu	63	1	No Gas	-4.803	-4.803	-44.93	364885	0.00	2000	
Zn	66	1	No Gas	53.130	53.130	1.85	88700	0.06	2000	
Se	82	1	No Gas	50.387	50.387	7.08	5693	0.89	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	420038	0.96	402857	104.26	70	120	
Ge	72	2	He	401143	1.93	375283	106.89	70	120	
Ge	72	1	No Gas	1005479	1.51	988334	101.73	70	120	
In	115	1	No Gas	960740	0.32	936504	102.59	70	120	

Sample Report

Bi	209	1	No Gas	775828	1.50	747548	103.78	70	120	

Sample Report

Sample Table

Sample Name	HS23011272-01SD
Data File Name	156SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:13:35-06:00
Sample Type	Sample
Dilution	5
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	18.112	90.559	1.07	139767	0.01	2000	
Be	9	1	No Gas	1.534	7.672	2.93	3472	0.04	2000	
V	51	2	He	0.476	2.381	1.72	3205	0.01	2000	
Cr	52	2	He	82.761	413.805	0.23	338110	0.02	2000	
Fe	56	2	He	1642.024	8210.118	0.36	5869522	0.03	200000	
Se	78	2	He	0.205	1.025	122.45	199	0.10	2000	
As	75	2	He	0.231	1.156	11.36	361	0.06	2000	
Ca	44	2	He	5782.857	28914.286	1.43	162899	3.55	200000	
Na	23	2	He	76199.200	380996.000	1.40	56162212	0.14	200000	
Mg	24	2	He	7343.030	36715.149	0.90	3225502	0.23	200000	
K	39	2	He	648.382	3241.911	1.34	535552	0.12	200000	
Mn	55	2	He	1225.620	6128.098	0.83	3742420	0.03	2000	
Co	59	2	He	44.452	222.258	0.77	236477	0.02	2000	
Ni	60	2	He	146.056	730.282	0.51	187625	0.08	2000	
Cu	63	2	He	-32.068	-160.338	-2.04	66640	-0.05	2000	
Zn	66	2	He	36.375	181.874	3.29	29873	0.12	2000	
Al	27	2	He	466.136	2330.678	0.73	131957	0.35	2000	
B	11	1	No Gas	5.123	25.617	5.82	13059	0.04	2000	
Al	27	1	No Gas	463.957	2319.787	3.45	3199172	0.01	2000	
Si	28	1	No Gas	5877.919	29389.596	2.64	23663717	0.02	2000	>LDR
Ag	107	1	No Gas	0.003	0.015	63.12	47	0.01	2000	
Cd	111	1	No Gas	0.110	0.550	40.15	160	0.07	2000	
Sr	88	1	No Gas	124.974	624.869	1.93	1577685	0.01	2000	
Mo	95	1	No Gas	0.109	0.543	14.62	323	0.03	2000	
Sn	118	1	No Gas	0.002	0.011	198.15	967	0.00	2000	
Sb	121	1	No Gas	0.062	0.312	38.07	530	0.01	2000	
Ba	137	1	No Gas	2.602	13.008	4.12	5191	0.05	2000	
Tl	205	1	No Gas	0.044	0.219	11.92	487	0.01	2000	
Tl	203	1	No Gas	0.021	0.105	35.88	130	0.02	2000	
Pb	208	1	No Gas	0.596	2.979	4.15	8138	0.01	2000	
U	238	1	No Gas	0.199	0.994	12.39	2577	0.01	2000	
Ca	43	2	He	6001.165	30005.827	5.40	9814	61.15	200000	
Sb	121	2	He	0.045	0.223	6.97	263	0.02	2000	
Ti	47	2	He	0.674	3.372	70.21	127	0.53	2000	
Cu	63	1	No Gas	-41.202	-206.008	-1.47	145634	-0.03	2000	
Zn	66	1	No Gas	35.499	177.493	1.43	61215	0.06	2000	
Se	82	1	No Gas	0.640	3.198	121.25	59	1.09	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	419205	0.21	402857	104.06	70	120	
Ge	72	2	He	389940	0.46	375283	103.91	70	120	
Ge	72	1	No Gas	1028340	1.77	988334	104.05	70	120	
In	115	1	No Gas	983400	0.51	936504	105.01	70	120	

Sample Report

Bi	209	1	No Gas	770883	1.15	747548	103.12	70	120	

Sample Report

Sample Table

Sample Name	HS23011272-01MS
Data File Name	157SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:15:34-06:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	92.315	92.315	1.06	621860	0.01	2000	
Be	9	1	No Gas	58.619	58.619	0.88	135280	0.04	2000	
V	51	2	He	52.738	52.738	1.98	204870	0.03	2000	
Cr	52	2	He	463.008	463.008	3.02	1963985	0.02	2000	
Fe	56	2	He	13436.297	13436.297	1.08	51195328	0.03	200000	
Se	78	2	He	53.390	53.390	1.03	4588	1.16	2000	
As	75	2	He	54.161	54.161	0.90	47000	0.12	2000	
Ca	44	2	He	34725.337	34725.337	2.49	1038272	3.34	200000	
Na	23	2	He	396417.996	396417.996	2.94	311898335	0.13	200000	>LDR
Mg	24	2	He	42992.716	42992.716	2.90	20186413	0.21	200000	
K	39	2	He	8683.623	8683.623	1.29	5609251	0.15	200000	
Mn	55	2	He	6093.887	6093.887	2.33	19888474	0.03	2000	>LDR
Co	59	2	He	280.817	280.817	1.07	1596949	0.02	2000	
Ni	60	2	He	758.827	758.827	1.87	1041274	0.07	2000	
Cu	63	2	He	9.194	9.194	11.38	227302	0.00	2000	
Zn	66	2	He	231.656	231.656	0.93	198509	0.12	2000	
Al	27	2	He	2469.927	2469.927	1.42	743528	0.33	2000	>LDR
B	11	1	No Gas	23.884	23.884	1.02	41201	0.06	2000	
Al	27	1	No Gas	2460.995	2460.995	0.66	17074267	0.01	2000	>LDR
Si	28	1	No Gas	31739.829	31739.829	1.82	128077678	0.02	2000	>LDR
Ag	107	1	No Gas	55.387	55.387	1.09	355747	0.02	2000	
Cd	111	1	No Gas	52.318	52.318	0.35	71514	0.07	2000	
Sr	88	1	No Gas	620.040	620.040	0.84	7872592	0.01	2000	
Mo	95	1	No Gas	51.840	51.840	1.25	133381	0.04	2000	
Sn	118	1	No Gas	-0.106	-0.106	-18.51	560	-0.02	2000	
Sb	121	1	No Gas	50.725	50.725	1.40	317800	0.02	2000	
Ba	137	1	No Gas	64.341	64.341	2.06	125743	0.05	2000	
Tl	205	1	No Gas	41.876	41.876	0.74	353504	0.01	2000	
Tl	203	1	No Gas	42.215	42.215	1.47	146895	0.03	2000	
Pb	208	1	No Gas	54.738	54.738	0.19	699268	0.01	2000	
U	238	1	No Gas	1.033	1.033	0.35	12994	0.01	2000	
Ca	43	2	He	35200.921	35200.921	1.63	61397	57.33	200000	
Sb	121	2	He	50.314	50.314	1.05	205064	0.02	2000	
Ti	47	2	He	56.157	56.157	3.23	9130	0.62	2000	
Cu	63	1	No Gas	-1.241	-1.241	-26.00	399760	0.00	2000	
Zn	66	1	No Gas	237.010	237.010	1.32	402734	0.06	2000	
Se	82	1	No Gas	58.133	58.133	5.25	6790	0.86	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	430950	1.02	402857	106.97	70	120	
Ge	72	2	He	417049	1.26	375283	111.13	70	120	
Ge	72	1	No Gas	1039194	1.70	988334	105.15	70	120	
In	115	1	No Gas	989126	0.86	936504	105.62	70	120	
Bi	209	1	No Gas	751319	1.34	747548	100.50	70	120	

Sample Report

Sample Table

Sample Name	HS23011272-01MSD
Data File Name	158SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:17:34-06:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	87.082	87.082	0.45	612226	0.01	2000	
Be	9	1	No Gas	57.345	57.345	1.33	137758	0.04	2000	
V	51	2	He	52.601	52.601	0.36	203950	0.03	2000	
Cr	52	2	He	434.806	434.806	1.05	1841672	0.02	2000	
Fe	56	2	He	12981.551	12981.551	2.43	49366453	0.03	200000	
Se	78	2	He	53.489	53.489	1.52	4587	1.17	2000	
As	75	2	He	53.492	53.492	0.85	46329	0.12	2000	
Ca	44	2	He	34284.611	34284.611	1.95	1023225	3.35	200000	
Na	23	2	He	381586.620	381586.620	0.91	299675542	0.13	200000	>LDR
Mg	24	2	He	41841.675	41841.675	0.65	19611033	0.21	200000	
K	39	2	He	8466.268	8466.268	0.96	5462006	0.16	200000	
Mn	55	2	He	5898.547	5898.547	0.56	19214836	0.03	2000	>LDR
Co	59	2	He	264.474	264.474	2.03	1501169	0.02	2000	
Ni	60	2	He	732.274	732.274	1.52	1002739	0.07	2000	
Cu	63	2	He	8.154	8.154	6.00	222928	0.00	2000	
Zn	66	2	He	225.086	225.086	1.38	192503	0.12	2000	
Al	27	2	He	2399.347	2399.347	0.75	720856	0.33	2000	>LDR
B	11	1	No Gas	22.227	22.227	0.95	40336	0.06	2000	
Al	27	1	No Gas	2329.820	2329.820	0.79	17041981	0.01	2000	>LDR
Si	28	1	No Gas	29128.078	29128.078	1.60	123965991	0.02	2000	>LDR
Ag	107	1	No Gas	50.946	50.946	1.95	331180	0.02	2000	
Cd	111	1	No Gas	51.100	51.100	0.81	70705	0.07	2000	
Sr	88	1	No Gas	581.672	581.672	0.81	7475811	0.01	2000	
Mo	95	1	No Gas	50.842	50.842	1.42	132418	0.04	2000	
Sn	118	1	No Gas	-0.085	-0.085	-59.06	650	-0.01	2000	
Sb	121	1	No Gas	48.778	48.778	1.03	322166	0.02	2000	
Ba	137	1	No Gas	63.348	63.348	2.04	125311	0.05	2000	
Tl	205	1	No Gas	41.854	41.854	1.38	352545	0.01	2000	
Tl	203	1	No Gas	42.593	42.593	0.86	147892	0.03	2000	
Pb	208	1	No Gas	54.227	54.227	1.34	691169	0.01	2000	
U	238	1	No Gas	0.934	0.934	2.72	11723	0.01	2000	
Ca	43	2	He	34015.181	34015.181	0.95	59214	57.44	200000	
Sb	121	2	He	50.070	50.070	1.20	203660	0.02	2000	
Ti	47	2	He	56.989	56.989	3.30	9243	0.62	2000	
Cu	63	1	No Gas	-5.537	-5.537	-11.31	392829	0.00	2000	
Zn	66	1	No Gas	221.943	221.943	1.37	397672	0.06	2000	
Se	82	1	No Gas	53.219	53.219	1.48	6556	0.81	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	448617	1.42	402857	111.36	70	120	
Ge	72	2	He	416193	0.80	375283	110.90	70	120	
Ge	72	1	No Gas	1095699	1.23	988334	110.86	70	120	
In	115	1	No Gas	1001284	1.17	936504	106.92	70	120	
Bi	209	1	No Gas	749616	0.26	747548	100.28	70	120	

Sample Report

Sample Table

Sample Name	HS23011272-01PDS
Data File Name	159SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:19:34-06:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	87.586	87.586	2.26	611874	0.01	2000	
Be	9	1	No Gas	103.579	103.579	2.82	247302	0.04	2000	
V	51	2	He	103.642	103.642	3.23	395079	0.03	2000	
Cr	52	2	He	501.729	501.729	4.24	2095441	0.02	2000	
Fe	56	2	He	17988.633	17988.633	2.11	67512189	0.03	200000	
Se	78	2	He	102.570	102.570	2.67	8505	1.21	2000	
As	75	2	He	104.073	104.073	1.43	88800	0.12	2000	
Ca	44	2	He	39848.550	39848.550	2.18	1173580	3.40	200000	
Na	23	2	He	397890.081	397890.081	1.60	308472755	0.13	200000	>LDR
Mg	24	2	He	47517.786	47517.786	0.67	21984349	0.22	200000	
K	39	2	He	13805.373	13805.373	2.17	8688059	0.16	200000	
Mn	55	2	He	6010.308	6010.308	3.55	19322496	0.03	2000	>LDR
Co	59	2	He	323.840	323.840	3.86	1813889	0.02	2000	
Ni	60	2	He	784.409	784.409	0.94	1060370	0.07	2000	
Cu	63	2	He	51.865	51.865	3.99	382893	0.01	2000	
Zn	66	2	He	274.838	274.838	1.34	231822	0.12	2000	
Al	27	2	He	2444.901	2444.901	3.03	724963	0.34	2000	>LDR
B	11	1	No Gas	22.810	22.810	3.99	40976	0.06	2000	
Al	27	1	No Gas	2341.994	2341.994	1.31	17202916	0.01	2000	>LDR
Si	28	1	No Gas	29210.957	29210.957	0.86	124846665	0.02	2000	>LDR
Ag	107	1	No Gas	98.928	98.928	1.30	637493	0.02	2000	
Cd	111	1	No Gas	100.132	100.132	1.95	137317	0.07	2000	
Sr	88	1	No Gas	595.867	595.867	0.65	7590020	0.01	2000	
Mo	95	1	No Gas	99.274	99.274	0.89	256252	0.04	2000	
Sn	118	1	No Gas	-0.110	-0.110	-10.98	547	-0.02	2000	
Sb	121	1	No Gas	94.230	94.230	0.82	624881	0.02	2000	
Ba	137	1	No Gas	111.250	111.250	0.68	217986	0.05	2000	
Tl	205	1	No Gas	102.396	102.396	0.47	871353	0.01	2000	
Tl	203	1	No Gas	104.336	104.336	0.81	365985	0.03	2000	
Pb	208	1	No Gas	101.183	101.183	0.36	1302905	0.01	2000	
U	238	1	No Gas	0.970	0.970	0.20	12310	0.01	2000	
Ca	43	2	He	39864.506	39864.506	2.48	68491	58.20	200000	
Sb	121	2	He	97.951	97.951	1.34	393193	0.02	2000	
Ti	47	2	He	111.601	111.601	5.02	17845	0.63	2000	
Cu	63	1	No Gas	33.729	33.729	2.77	657278	0.01	2000	
Zn	66	1	No Gas	266.708	266.708	1.47	479526	0.06	2000	
Se	82	1	No Gas	99.016	99.016	3.97	12267	0.81	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	445941	1.25	402857	110.69	70	120	
Ge	72	2	He	410871	1.39	375283	109.48	70	120	
Ge	72	1	No Gas	1100351	1.66	988334	111.33	70	120	
In	115	1	No Gas	992357	1.14	936504	105.96	70	120	
Bi	209	1	No Gas	757474	1.43	747548	101.33	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	163_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:27:34-06:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	95.255	1.031	649677	1.84	100	95.3	90	110	
Be	9	1	No Gas	93.372	1.728	218427	0.69	100	93.4	90	110	
V	51	2	He	99.505	0.559	369868	1.26	100	99.5	90	110	
Cr	52	2	He	99.448	1.252	414743	0.56	100	99.4	90	110	
Fe	56	2	He	9960.891	2.632	36447204	1.92	10000	99.6	90	110	
Se	78	2	He	94.731	1.699	7671	1.24	100	94.7	90	110	
As	75	2	He	101.516	0.196	84438	0.97	100	101.5	90	110	
Ca	44	2	He	10044.019	0.773	289480	1.57	10000	100.4	90	110	
Na	23	2	He	10578.605	0.992	8106753	1.59	10000	105.8	90	110	
Mg	24	2	He	10484.228	0.701	4728961	0.93	10000	104.8	90	110	
K	39	2	He	10169.833	1.076	6281171	1.41	10000	101.7	90	110	
Mn	55	2	He	100.394	2.479	316828	2.09	100	100.4	90	110	
Co	59	2	He	96.823	1.352	528788	0.96	100	96.8	90	110	
Ni	60	2	He	97.384	1.014	128564	0.99	100	97.4	90	110	
Cu	63	2	He	50.085	1.402	366772	0.61	100	50.1	90	110	CCV Main CR1-2 Failed
Zn	66	2	He	98.566	0.720	81615	1.36	100	98.6	90	110	
Al	27	2	He	109.074	0.376	32435	0.63	100	109.1	90	110	
B	11	1	No Gas	500.836	3.345	757364	1.65	500	100.2	90	110	
Al	27	1	No Gas	114.451	2.127	797370	1.01	100	114.5	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	874.261	2.446	3694152	1.30	5000	17.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.968	1.135	631646	0.59	100	100.0	90	110	
Cd	111	1	No Gas	97.578	1.051	131232	2.00	100	97.6	90	110	
Sr	88	1	No Gas	104.667	1.841	1307686	1.76	100	104.7	90	110	
Mo	95	1	No Gas	99.346	0.954	251453	0.08	100	99.3	90	110	
Sn	118	1	No Gas	99.389	1.021	372435	1.65	100	99.4	90	110	
Sb	121	1	No Gas	96.361	2.638	592511	0.40	100	96.4	90	110	
Ba	137	1	No Gas	97.912	1.782	188189	2.64	100	97.9	90	110	
Tl	205	1	No Gas	97.162	0.746	830933	0.63	100	97.2	90	110	
Tl	203	1	No Gas	98.732	1.008	348053	1.00	100	98.7	90	110	
Pb	208	1	No Gas	98.510	0.834	1274759	0.55	100	98.5	90	110	
U	238	1	No Gas	96.763	2.903	1232364	2.62	100	96.8	90	110	
Ca	43	2	He	10276.987	1.203	17238	1.98	10000	102.8	90	110	
Sb	121	2	He	98.631	0.440	385932	0.87	100	98.6	90	110	
Ti	47	2	He	100.624	3.435	15689	4.11	100	100.6	90	110	
Cu	63	1	No Gas	35.898	7.839	622923	0.64	100	35.9	90	110	CCV Main CR1-2 Failed
Se	82	1	No Gas	96.634	3.672	11097	2.34	100	96.6	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	436932	1.80	402857	108.46	70	120	
Ge	72	2	He	400454	0.80	375283	106.71	70	120	
Ge	72	1	No Gas	1020762	3.02	988334	103.28	70	120	
In	115	1	No Gas	973188	0.97	936504	103.92	70	120	
Bi	209	1	No Gas	761224	0.38	747548	101.83	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	164_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:29:31-06:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	0.010	666.6	27921	1.1	0.5	
Be	9	1	No Gas	0.002	199.3	33	22.9	0.5	
V	51	2	He	0.093	12.1	1828	0.9	2.5	
Cr	52	2	He	0.202	39.3	12753	3.6	2.5	
Fe	56	2	He	0.413	52.6	23487	3.0	100	
Se	78	2	He	-0.231	-97.3	166	9.6	2	
As	75	2	He	0.039	192.9	206	27.6	2.5	
Ca	44	2	He	-8.780	-42.6	1220	10.1	100	
Na	23	2	He	57.423	8.4	155138	0.4	100	
Mg	24	2	He	-1.542	-3.5	713	2.9	100	
K	39	2	He	-5.838	-95.8	152361	0.5	100	
Mn	55	2	He	-0.192	-31.7	1573	10.7	2.5	
Co	59	2	He	0.002	583.3	133	37.0	2.5	
Ni	60	2	He	-0.089	-16.1	163	12.7	2.5	
Cu	63	2	He	-39.382	-0.3	40852	1.2	2	
Zn	66	2	He	-0.460	-12.0	503	8.3	2.5	
Al	27	2	He	-0.663	-39.5	737	10.9	5	
B	11	1	No Gas	10.418	6.4	21964	5.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.407	-8.5	16250	0.5	5	
Si	28	1	No Gas	-8.086	-6.5	209002	1.1	10	
Ag	107	1	No Gas	0.011	70.2	97	48.9	2.5	
Cd	111	1	No Gas	0.000	-21.2	10	0.0	1	
Sr	88	1	No Gas	0.042	21.3	850	12.3	2.5	
Mo	95	1	No Gas	0.098	54.6	297	45.3	2.5	
Sn	118	1	No Gas	-0.047	-73.5	783	17.3	5	
Sb	121	1	No Gas	0.052	9.3	470	6.4	2.5	
Ba	137	1	No Gas	0.003	557.1	150	23.1	2.5	
Tl	205	1	No Gas	0.379	26.5	3387	25.4	1	
Tl	203	1	No Gas	0.410	21.2	1520	20.1	1	
Pb	208	1	No Gas	0.008	23.4	433	4.8	2.5	
U	238	1	No Gas	0.013	12.8	177	11.8	2.5	
Ca	43	2	He	3.341	210.3	37	31.5	100	
Sb	121	2	He	0.077	22.6	390	18.5	2.5	
Ti	47	2	He	-0.072	-138.9	13	114.6	2.5	
Cu	63	1	No Gas	-50.920	-1.0	86159	3.8	2.5	
Se	82	1	No Gas	-0.190	-168.1	-39	-98.8	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	445105	0.57	402857	110.49	70	120	
Ge	72	2	He	390671	2.14	375283	104.10	70	120	
Ge	72	1	No Gas	1044564	1.46	988334	105.69	70	120	
In	115	1	No Gas	986990	0.98	936504	105.39	70	120	
Bi	209	1	No Gas	772035	0.76	747548	103.28	70	120	

Sample Report

Sample Table

Sample Name	HS23011272-01
Data File Name	170SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:42:41-06:00
Sample Type	Sample
Dilution	20
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	4.534	90.683	3.91	53873	0.01	2000	
Be	9	1	No Gas	0.349	6.981	5.12	800	0.04	2000	
V	51	2	He	0.475	9.493	9.30	3124	0.02	2000	
Cr	52	2	He	23.156	463.120	1.87	100780	0.02	2000	
Fe	56	2	He	420.422	8408.444	3.19	1483374	0.03	200000	
Se	78	2	He	-0.293	-5.852	-52.47	157	-0.19	2000	
As	75	2	He	0.201	4.012	32.76	329	0.06	2000	
Ca	44	2	He	1396.947	27938.932	3.29	39511	3.54	200000	
Na	23	2	He	19261.304	385226.071	2.22	13944248	0.14	200000	
Mg	24	2	He	1901.011	38020.212	4.49	816293	0.23	200000	
K	39	2	He	136.808	2736.161	7.88	230180	0.06	200000	
Mn	55	2	He	310.028	6200.569	1.86	926007	0.03	2000	
Co	59	2	He	11.158	223.156	0.50	58061	0.02	2000	
Ni	60	2	He	37.329	746.589	0.71	47032	0.08	2000	
Cu	63	2	He	-26.496	-529.915	-1.17	84324	-0.03	2000	
Zn	66	2	He	8.954	179.078	7.01	7826	0.11	2000	
Al	27	2	He	115.346	2306.920	4.00	32559	0.35	2000	
B	11	1	No Gas	6.697	133.932	2.35	15107	0.04	2000	
Al	27	1	No Gas	113.275	2265.505	3.17	775079	0.01	2000	
Si	28	1	No Gas	1449.336	28986.726	2.72	5859658	0.02	2000	
Ag	107	1	No Gas	0.001	0.018	440.83	33	0.00	2000	
Cd	111	1	No Gas	0.022	0.447	34.80	40	0.06	2000	
Sr	88	1	No Gas	30.464	609.289	0.45	378127	0.01	2000	
Mo	95	1	No Gas	0.027	0.545	47.18	113	0.02	2000	
Sn	118	1	No Gas	-0.061	-1.228	-57.35	713	-0.01	2000	
Sb	121	1	No Gas	0.035	0.692	20.77	347	0.01	2000	
Ba	137	1	No Gas	0.601	12.026	9.43	1287	0.05	2000	
Tl	205	1	No Gas	-0.003	-0.057	-98.92	83	0.00	2000	
Tl	203	1	No Gas	0.002	0.040	69.95	63	0.00	2000	
Pb	208	1	No Gas	0.134	2.673	1.75	2123	0.01	2000	
U	238	1	No Gas	0.045	0.902	5.74	603	0.01	2000	
Ca	43	2	He	1444.713	28894.269	1.53	2330	62.00	200000	
Sb	121	2	He	0.041	0.815	43.76	243	0.02	2000	
Ti	47	2	He	0.133	2.669	147.16	43	0.31	2000	
Cu	63	1	No Gas	-34.857	-697.133	-2.42	180492	-0.02	2000	
Zn	66	1	No Gas	8.731	174.610	1.57	15993	0.05	2000	
Se	82	1	No Gas	-1.031	-20.627	-49.42	-133	0.78	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	413267	1.16	402857	102.58	70	120	
Ge	72	2	He	380828	1.08	375283	101.48	70	120	
Ge	72	1	No Gas	1001752	1.99	988334	101.36	70	120	
In	115	1	No Gas	966182	1.00	936504	103.17	70	120	

Sample Report

Bi	209	1	No Gas	785449	2.31	747548	105.07	70	120	

Sample Report

Sample Table

Sample Name	HS23011272-01SD
Data File Name	171SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:44:42-06:00
Sample Type	Sample
Dilution	100
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	1.044	104.375	8.08	33784	0.00	2000	
Be	9	1	No Gas	0.060	6.037	10.58	168	0.04	2000	
V	51	2	He	0.157	15.662	17.33	2080	0.01	2000	
Cr	52	2	He	4.658	465.761	1.06	30692	0.02	2000	
Fe	56	2	He	85.982	8598.181	1.40	332491	0.03	200000	
Se	78	2	He	-0.256	-25.600	-40.16	166	-0.15	2000	
As	75	2	He	0.010	0.967	262.22	184	0.01	2000	
Ca	44	2	He	278.219	27821.871	2.17	9350	2.98	200000	
Na	23	2	He	4084.477	408447.744	1.20	3157976	0.13	200000	
Mg	24	2	He	398.119	39811.867	0.33	178527	0.22	200000	
K	39	2	He	12.756	1275.568	10.06	165179	0.01	200000	
Mn	55	2	He	63.950	6395.028	1.65	199908	0.03	2000	
Co	59	2	He	2.356	235.581	3.16	12820	0.02	2000	
Ni	60	2	He	7.803	780.253	2.90	10421	0.07	2000	
Cu	63	2	He	-35.753	-3575.314	-0.21	54326	-0.07	2000	
Zn	66	2	He	1.706	170.588	13.58	2260	0.08	2000	
Al	27	2	He	24.017	2401.714	2.23	7776	0.31	2000	
B	11	1	No Gas	3.851	385.114	5.24	11570	0.03	2000	
Al	27	1	No Gas	24.684	2468.416	1.10	188883	0.01	2000	
Si	28	1	No Gas	309.543	30954.315	0.98	1478647	0.02	2000	
Ag	107	1	No Gas	0.003	0.335	44.02	50	0.01	2000	
Cd	111	1	No Gas	0.000	-0.039	-1861.37	10	0.00	2000	
Sr	88	1	No Gas	6.356	635.578	2.34	81227	0.01	2000	
Mo	95	1	No Gas	0.007	0.679	204.75	63	0.01	2000	
Sn	118	1	No Gas	-0.124	-12.429	-8.23	493	-0.03	2000	
Sb	121	1	No Gas	0.013	1.288	83.39	223	0.01	2000	
Ba	137	1	No Gas	0.064	6.428	61.74	270	0.02	2000	
Tl	205	1	No Gas	-0.005	-0.469	-86.02	67	-0.01	2000	
Tl	203	1	No Gas	-0.006	-0.622	-68.57	33	-0.02	2000	
Pb	208	1	No Gas	0.029	2.946	17.03	730	0.00	2000	
U	238	1	No Gas	0.010	0.964	16.40	137	0.01	2000	
Ca	43	2	He	283.276	28327.640	13.59	500	56.65	200000	
Sb	121	2	He	0.008	0.830	101.12	127	0.01	2000	
Ti	47	2	He	-0.073	-7.309	-53.53	13	-0.55	2000	
Cu	63	1	No Gas	-46.387	-4638.727	-0.96	113699	-0.04	2000	
Zn	66	1	No Gas	1.567	156.671	8.77	4447	0.04	2000	
Se	82	1	No Gas	-0.167	-16.674	-121.50	-35	0.48	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	432062	0.83	402857	107.25	70	120	
Ge	72	2	He	395107	1.42	375283	105.28	70	120	
Ge	72	1	No Gas	1032912	1.91	988334	104.51	70	120	
In	115	1	No Gas	991857	1.09	936504	105.91	70	120	

Sample Report

Bi	209	1	No Gas	782146	0.54	747548	104.63	70	120	

Sample Report

Sample Table

Sample Name	HS23011272-01PDS
Data File Name	172SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:46:42-06:00
Sample Type	Sample
Dilution	20
Comment	DOD TW B 189410
ISTD Ref FileName	021CALB.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	4.527	90.549	2.36	52203	0.01	2000	
Be	9	1	No Gas	98.503	1970.068	1.66	211359	0.05	2000	
V	51	2	He	102.685	2053.708	1.99	364751	0.03	2000	
Cr	52	2	He	122.627	2452.534	0.90	486099	0.03	2000	
Fe	56	2	He	10413.748	208274.965	1.49	36423894	0.03	200000	
Se	78	2	He	100.515	2010.307	0.71	7769	1.29	2000	
As	75	2	He	103.501	2070.015	1.06	82279	0.13	2000	
Ca	44	2	He	11342.134	226842.671	2.41	312227	3.63	200000	
Na	23	2	He	28499.782	569995.633	2.14	20688721	0.14	200000	
Mg	24	2	He	11822.019	236440.381	1.79	5096352	0.23	200000	
K	39	2	He	10175.463	203509.255	1.84	6006520	0.17	200000	
Mn	55	2	He	410.669	8213.382	2.20	1232266	0.03	2000	
Co	59	2	He	109.040	2180.798	1.78	569179	0.02	2000	
Ni	60	2	He	136.033	2720.654	1.77	171541	0.08	2000	
Cu	63	2	He	64.789	1295.778	2.49	401602	0.02	2000	
Zn	66	2	He	111.176	2223.517	0.38	87878	0.13	2000	
Al	27	2	He	210.947	4218.949	0.57	59113	0.36	2000	
B	11	1	No Gas	4.184	83.680	3.34	11191	0.04	2000	
Al	27	1	No Gas	215.655	4313.107	2.70	1434699	0.02	2000	
Si	28	1	No Gas	1443.609	28872.179	0.96	5740339	0.03	2000	
Ag	107	1	No Gas	104.127	2082.530	1.46	637490	0.02	2000	
Cd	111	1	No Gas	102.190	2043.794	0.83	133147	0.08	2000	
Sr	88	1	No Gas	30.858	617.159	0.30	373759	0.01	2000	
Mo	95	1	No Gas	102.193	2043.868	1.31	250626	0.04	2000	
Sn	118	1	No Gas	-0.039	-0.786	-110.00	777	-0.01	2000	
Sb	121	1	No Gas	100.386	2007.715	0.47	595966	0.02	2000	
Ba	137	1	No Gas	102.013	2040.263	1.24	189946	0.05	2000	
Tl	205	1	No Gas	109.389	2187.787	0.49	937742	0.01	2000	
Tl	203	1	No Gas	111.560	2231.192	1.26	394250	0.03	2000	
Pb	208	1	No Gas	101.005	2020.098	0.83	1310240	0.01	2000	
U	238	1	No Gas	0.054	1.076	16.61	697	0.01	2000	
Ca	43	2	He	11471.624	229432.473	1.42	18386	62.39	200000	
Sb	121	2	He	101.084	2021.677	0.45	378049	0.03	2000	
Ti	47	2	He	100.024	2000.487	1.79	14905	0.67	2000	
Cu	63	1	No Gas	52.137	1042.747	1.49	698744	0.01	2000	
Zn	66	1	No Gas	108.901	2178.018	1.81	176315	0.06	2000	
Se	82	1	No Gas	98.750	1975.001	2.65	10949	0.90	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	400717	1.15	402857	99.47	70	120	
Ge	72	2	He	382761	0.50	375283	101.99	70	120	
Ge	72	1	No Gas	985007	0.89	988334	99.66	70	120	
In	115	1	No Gas	942880	0.33	936504	100.68	70	120	

Sample Report

Bi	209	1	No Gas	763037	1.38	747548	102.07	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	173_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:48:40-06:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	95.133	0.402	629305	1.67	100	95.1	90	110	
Be	9	1	No Gas	94.881	1.906	215257	0.60	100	94.9	90	110	
V	51	2	He	98.086	0.888	366680	0.26	100	98.1	90	110	
Cr	52	2	He	98.034	0.548	411378	0.73	100	98.0	90	110	
Fe	56	2	He	9736.935	0.474	35836477	0.81	10000	97.4	90	110	
Se	78	2	He	96.063	2.174	7820	1.56	100	96.1	90	110	
As	75	2	He	99.724	0.513	83429	1.59	100	99.7	90	110	
Ca	44	2	He	9860.179	0.666	285819	0.81	10000	98.6	90	110	
Na	23	2	He	10082.732	1.025	7776180	1.31	10000	100.8	90	110	
Mg	24	2	He	10137.207	1.194	4598402	0.52	10000	101.4	90	110	
K	39	2	He	9913.046	1.977	6160872	0.90	10000	99.1	90	110	
Mn	55	2	He	97.807	0.396	310520	1.19	100	97.8	90	110	
Co	59	2	He	94.969	1.641	521622	1.12	100	95.0	90	110	
Ni	60	2	He	96.631	1.192	128302	1.16	100	96.6	90	110	
Cu	63	2	He	50.707	2.297	371131	0.76	100	50.7	90	110	CCV Main CR1-2 Failed
Zn	66	2	He	98.753	1.193	82230	0.55	100	98.8	90	110	
Al	27	2	He	106.647	2.451	31917	2.65	100	106.6	90	110	
B	11	1	No Gas	489.243	2.914	718001	3.87	500	97.8	90	110	
Al	27	1	No Gas	110.155	2.448	780677	2.30	100	110.2	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	737.878	2.495	3206415	2.60	5000	14.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.817	1.371	633268	0.92	100	99.8	90	110	
Cd	111	1	No Gas	98.215	0.637	132616	0.86	100	98.2	90	110	
Sr	88	1	No Gas	100.840	2.165	1265176	2.80	100	100.8	90	110	
Mo	95	1	No Gas	98.899	2.486	251357	2.61	100	98.9	90	110	
Sn	118	1	No Gas	99.595	1.169	374692	0.26	100	99.6	90	110	
Sb	121	1	No Gas	96.670	0.619	604216	1.25	100	96.7	90	110	
Ba	137	1	No Gas	98.544	0.631	190156	0.96	100	98.5	90	110	
Tl	205	1	No Gas	96.217	1.215	821704	0.25	100	96.2	90	110	
Tl	203	1	No Gas	97.877	0.862	344573	0.79	100	97.9	90	110	
Pb	208	1	No Gas	97.895	0.410	1265192	1.43	100	97.9	90	110	
U	238	1	No Gas	96.398	1.948	1226317	2.96	100	96.4	90	110	
Ca	43	2	He	9962.460	2.838	16807	3.34	10000	99.6	90	110	
Sb	121	2	He	97.129	1.654	382194	0.61	100	97.1	90	110	
Ti	47	2	He	100.895	3.016	15816	2.01	100	100.9	90	110	
Cu	63	1	No Gas	35.228	5.617	628892	0.77	100	35.2	90	110	CCV Main CR1-2 Failed
Se	82	1	No Gas	92.764	3.075	10826	2.48	100	92.8	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	423759	1.98	402857	105.19	70	120	
Ge	72	2	He	402752	1.08	375283	107.32	70	120	
Ge	72	1	No Gas	1037058	1.21	988334	104.93	70	120	
In	115	1	No Gas	977181	1.26	936504	104.34	70	120	
Bi	209	1	No Gas	760245	1.40	747548	101.70	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	174_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T16:50:37-06:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	021CALB.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	0.069	59.5	27587	0.5	0.5	
Be	9	1	No Gas	0.012	19.8	57	10.2	0.5	
V	51	2	He	0.063	30.9	1770	6.2	2.5	
Cr	52	2	He	0.048	261.2	12509	2.7	2.5	
Fe	56	2	He	0.309	22.4	23831	3.2	100	
Se	78	2	He	-0.207	-107.9	173	12.0	2	
As	75	2	He	0.041	92.5	214	15.3	2.5	
Ca	44	2	He	-7.577	-41.4	1290	5.4	100	
Na	23	2	He	26.718	18.0	136559	0.5	100	
Mg	24	2	He	-1.760	-5.3	637	7.1	100	
K	39	2	He	-19.591	-29.5	148691	0.2	100	
Mn	55	2	He	-0.285	-8.1	1330	6.6	2.5	
Co	59	2	He	0.004	213.2	150	29.1	2.5	
Ni	60	2	He	-0.083	-39.5	177	26.8	2.5	
Cu	63	2	He	-39.577	-1.6	41366	3.8	2	
Zn	66	2	He	-0.441	-19.7	533	11.3	2.5	
Al	27	2	He	-0.724	-49.3	740	12.0	5	
B	11	1	No Gas	6.396	8.2	15409	5.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.368	-18.6	16120	3.1	5	
Si	28	1	No Gas	-8.318	-6.7	203042	2.2	10	
Ag	107	1	No Gas	0.008	77.6	80	50.0	2.5	
Cd	111	1	No Gas	0.000	-1504.2	10	100.0	1	
Sr	88	1	No Gas	0.035	31.2	777	17.8	2.5	
Mo	95	1	No Gas	0.080	17.2	257	13.7	2.5	
Sn	118	1	No Gas	-0.036	-105.4	843	17.5	5	
Sb	121	1	No Gas	0.129	7.0	933	7.1	2.5	
Ba	137	1	No Gas	0.008	307.1	163	31.4	2.5	
Tl	205	1	No Gas	0.423	28.0	3794	25.7	1	
Tl	203	1	No Gas	0.384	34.5	1433	31.7	1	
Pb	208	1	No Gas	0.008	27.0	443	5.2	2.5	
U	238	1	No Gas	0.011	44.7	150	40.6	2.5	
Ca	43	2	He	-9.121	-136.2	17	124.9	100	
Sb	121	2	He	0.129	3.8	603	3.5	2.5	
Ti	47	2	He	-0.075	-199.0	13	173.2	2.5	
Cu	63	1	No Gas	-50.217	-0.5	88443	2.6	2.5	
Se	82	1	No Gas	-0.026	-512.2	-19	-81.9	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	433727	0.46	402857	107.66	70	120	
Ge	72	2	He	402613	2.19	375283	107.28	70	120	
Ge	72	1	No Gas	1019222	1.16	988334	103.13	70	120	
In	115	1	No Gas	1006292	0.48	936504	107.45	70	120	
Bi	209	1	No Gas	777281	1.63	747548	103.98	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	183CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:08:49-06:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	26503	0.01
Be	9	1	No Gas	18	309.67
V	51	2	He	1601	0.26
Cr	52	2	He	11965	0.02
Fe	56	2	He	20636	0.01
Se	78	2	He	161	1.18
As	75	2	He	184	2.47
Ca	44	2	He	1223	0.39
Na	23	2	He	120607	0.00
Mg	24	2	He	383	3.22
K	39	2	He	145258	0.00
Mn	55	2	He	1443	0.36
Co	59	2	He	73	75.15
Ni	60	2	He	107	25.37
Cu	63	2	He	34999	0.00
Zn	66	2	He	697	1.37
Al	27	2	He	580	2.84
B	11	1	No Gas	6261	0.03
Al	27	1	No Gas	11645	0.01
Si	28	1	No Gas	220608	0.00
Ag	107	1	No Gas	30	192.45
Cd	111	1	No Gas	3	5196.15
Sr	88	1	No Gas	467	2.27
Mo	95	1	No Gas	27	162.38
Sn	118	1	No Gas	933	1.09
Sb	121	1	No Gas	173	6.93
Ba	137	1	No Gas	137	6.18
Tl	205	1	No Gas	53	146.37
Tl	203	1	No Gas	40	125.00
Pb	208	1	No Gas	280	8.84
U	238	1	No Gas	17	549.91
Ca	43	2	He	13	859.23
Sb	121	2	He	87	50.40
Ti	47	2	He	7	2598.08
Cu	63	1	No Gas	76380	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	425695	2.94
Ge	72	2	He	397960	1.07
Ge	72	1	No Gas	1025238	2.03
In	115	1	No Gas	976955	1.87

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	764763	2.43

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	184CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:10:48-06:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	183CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	4112	0.08
V	51	2	He	8558	0.02
Cr	52	2	He	19291	0.01
Fe	56	2	He	724521	0.00
Se	78	2	He	307	2.83
As	75	2	He	1796	0.12
Ca	44	2	He	6358	0.04
Na	23	2	He	273442	0.00
Mg	24	2	He	92578	0.00
K	39	2	He	262664	0.00
Mn	55	2	He	7172	0.08
Co	59	2	He	10541	0.02
Ni	60	2	He	2500	0.10
Cu	63	2	He	41363	0.01
Zn	66	2	He	2080	0.11
Al	27	2	He	1193	0.18
B	11	1	No Gas	19377	0.01
Al	27	1	No Gas	27154	0.00
Si	28	1	No Gas	262424	0.00
Ag	107	1	No Gas	12543	0.02
Cd	111	1	No Gas	2417	0.37
Sr	88	1	No Gas	24954	0.01
Mo	95	1	No Gas	4908	0.18
Sn	118	1	No Gas	7689	0.02
Sb	121	1	No Gas	11545	0.04
Ba	137	1	No Gas	4044	0.08
Tl	205	1	No Gas	16441	0.01
Tl	203	1	No Gas	6605	0.08
Pb	208	1	No Gas	25030	0.01
U	238	1	No Gas	23176	0.01
Ca	43	2	He	347	9.75
Sb	121	2	He	7359	0.01
Cu	63	1	No Gas	87403	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	429328	1.54	425695	100.85	70	120	
Ge	72	2	He	405207	0.21	397960	101.82	70	120	
Ge	72	1	No Gas	1039434	0.93	1025238	101.38	70	120	

Calibration Standard Report

In	115	1	No Gas	995144	1.92	976955	101.86	70	120	
Bi	209	1	No Gas	771228	2.27	764763	100.85	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	185CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:12:48-06:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	183CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10150	0.02
V	51	2	He	18657	0.02
Cr	52	2	He	31159	0.01
Fe	56	2	He	1788857	0.00
Se	78	2	He	514	1.17
As	75	2	He	4012	0.06
Ca	44	2	He	14868	0.01
Na	23	2	He	502795	0.00
Mg	24	2	He	230862	0.00
K	39	2	He	441044	0.00
Mn	55	2	He	15799	0.01
Co	59	2	He	25107	0.01
Ni	60	2	He	6495	0.08
Cu	63	2	He	51635	0.00
Zn	66	2	He	4518	0.02
Al	27	2	He	2014	0.16
B	11	1	No Gas	38433	0.00
Al	27	1	No Gas	45522	0.00
Si	28	1	No Gas	317356	0.00
Ag	107	1	No Gas	30659	0.01
Cd	111	1	No Gas	6432	0.08
Sr	88	1	No Gas	60139	0.00
Mo	95	1	No Gas	11932	0.02
Sn	118	1	No Gas	18206	0.03
Sb	121	1	No Gas	28772	0.01
Ba	137	1	No Gas	9133	0.04
Tl	205	1	No Gas	40446	0.00
Tl	203	1	No Gas	16888	0.02
Pb	208	1	No Gas	61012	0.00
U	238	1	No Gas	57783	0.00
Ca	43	2	He	817	1.65
Sb	121	2	He	17926	0.03
Cu	63	1	No Gas	103021	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	426375	2.16	425695	100.16	70	120	
Ge	72	2	He	397507	0.52	397960	99.89	70	120	
Ge	72	1	No Gas	1044300	2.64	1025238	101.86	70	120	

Calibration Standard Report

In	115	1	No Gas	978024	1.20	976955	100.11	70	120	
Bi	209	1	No Gas	764977	1.18	764763	100.03	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	186CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:14:47-06:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	183CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	20230	0.01
V	51	2	He	37031	0.00
Cr	52	2	He	51169	0.00
Fe	56	2	He	3563834	0.00
Se	78	2	He	894	0.18
As	75	2	He	7776	0.02
Ca	44	2	He	28373	0.01
Na	23	2	He	876442	0.00
Mg	24	2	He	458376	0.00
K	39	2	He	737822	0.00
Mn	55	2	He	31587	0.01
Co	59	2	He	51421	0.00
Ni	60	2	He	12433	0.01
Cu	63	2	He	68573	0.00
Zn	66	2	He	8133	0.06
Al	27	2	He	3150	0.16
B	11	1	No Gas	71928	0.00
Al	27	1	No Gas	82863	0.00
Si	28	1	No Gas	431147	0.00
Ag	107	1	No Gas	63184	0.00
Cd	111	1	No Gas	12676	0.03
Sr	88	1	No Gas	122387	0.00
Mo	95	1	No Gas	24029	0.01
Sn	118	1	No Gas	36244	0.00
Sb	121	1	No Gas	57865	0.00
Ba	137	1	No Gas	18520	0.01
Tl	205	1	No Gas	82868	0.00
Tl	203	1	No Gas	34227	0.00
Pb	208	1	No Gas	126641	0.00
U	238	1	No Gas	117067	0.00
Ca	43	2	He	1593	0.36
Sb	121	2	He	35706	0.00
Cu	63	1	No Gas	135404	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	423776	1.49	425695	99.55	70	120	
Ge	72	2	He	399068	0.69	397960	100.28	70	120	
Ge	72	1	No Gas	1034710	3.46	1025238	100.92	70	120	

Calibration Standard Report

In	115	1	No Gas	981336	2.89	976955	100.45	70	120	
Bi	209	1	No Gas	779069	1.39	764763	101.87	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	187CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:16:46-06:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	183CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	209049	0.00
V	51	2	He	361722	0.00
Cr	52	2	He	409088	0.00
Fe	56	2	He	36101698	0.00
Se	78	2	He	7537	0.02
As	75	2	He	80684	0.00
Ca	44	2	He	280115	0.00
Na	23	2	He	7592087	0.00
Mg	24	2	He	4528706	0.00
K	39	2	He	6049973	0.00
Mn	55	2	He	310713	0.00
Co	59	2	He	525684	0.00
Ni	60	2	He	128759	0.00
Cu	63	2	He	363151	0.00
Zn	66	2	He	81089	0.00
Al	27	2	He	29134	0.00
B	11	1	No Gas	687889	0.00
Al	27	1	No Gas	720915	0.00
Si	28	1	No Gas	2180627	0.00
Ag	107	1	No Gas	628947	0.00
Cd	111	1	No Gas	131575	0.00
Sr	88	1	No Gas	1236924	0.00
Mo	95	1	No Gas	247119	0.00
Sn	118	1	No Gas	364227	0.00
Sb	121	1	No Gas	586131	0.00
Ba	137	1	No Gas	185341	0.00
Tl	205	1	No Gas	849097	0.00
Tl	203	1	No Gas	356095	0.00
Pb	208	1	No Gas	1248113	0.00
U	238	1	No Gas	1184697	0.00
Ca	43	2	He	16080	0.02
Sb	121	2	He	374604	0.00
Cu	63	1	No Gas	609545	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	410094	1.67	425695	96.34	70	120	
Ge	72	2	He	398803	0.37	397960	100.21	70	120	
Ge	72	1	No Gas	1011649	0.72	1025238	98.67	70	120	

Calibration Standard Report

In	115	1	No Gas	977880	1.98	976955	100.09	70	120	
Bi	209	1	No Gas	750719	1.24	764763	98.16	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	188CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:18:42-06:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	183CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	415695	0.00
V	51	2	He	719608	0.00
Cr	52	2	He	791461	0.00
Fe	56	2	He	70241249	0.00
Se	78	2	He	14957	0.01
As	75	2	He	157758	0.00
Ca	44	2	He	555137	0.00
Na	23	2	He	15007548	0.00
Mg	24	2	He	8850810	0.00
K	39	2	He	12043176	0.00
Mn	55	2	He	612578	0.00
Co	59	2	He	1053160	0.00
Ni	60	2	He	250541	0.00
Cu	63	2	He	682697	0.00
Zn	66	2	He	159817	0.00
Al	27	2	He	57985	0.00
B	11	1	No Gas	1362819	0.00
Al	27	1	No Gas	1377275	0.00
Si	28	1	No Gas	4089400	0.00
Ag	107	1	No Gas	1218636	0.00
Cd	111	1	No Gas	260912	0.00
Sr	88	1	No Gas	2444297	0.00
Mo	95	1	No Gas	495148	0.00
Sn	118	1	No Gas	714472	0.00
Sb	121	1	No Gas	1167465	0.00
Ba	137	1	No Gas	365707	0.00
Tl	205	1	No Gas	1615020	0.00
Tl	203	1	No Gas	664201	0.00
Pb	208	1	No Gas	2445675	0.00
U	238	1	No Gas	2428182	0.00
Ca	43	2	He	33154	0.01
Sb	121	2	He	748396	0.00
Cu	63	1	No Gas	1133725	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	404444	2.25	425695	95.01	70	120	
Ge	72	2	He	398171	2.86	397960	100.05	70	120	
Ge	72	1	No Gas	1012675	3.25	1025238	98.77	70	120	

Calibration Standard Report

In	115	1	No Gas	957793	1.93	976955	98.04	70	120	
Bi	209	1	No Gas	744970	1.85	764763	97.41	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	190_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:22:49-06:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	103.320	0.816	638559	0.92	100	103.3	90	110	
Be	9	1	No Gas	102.409	0.547	219656	0.28	100	102.4	90	110	
V	51	2	He	103.676	2.045	378774	0.51	100	103.7	90	110	
Cr	52	2	He	102.508	1.743	418300	0.89	100	102.5	90	110	
Fe	56	2	He	10143.632	2.038	36294952	1.06	10000	101.4	90	110	
Se	78	2	He	102.592	2.931	7844	0.70	100	102.6	90	110	
As	75	2	He	108.470	1.606	87116	0.90	100	108.5	90	110	
Ca	44	2	He	10232.226	2.383	288576	0.38	10000	102.3	90	110	
Na	23	2	He	10208.668	3.516	7823897	2.24	10000	102.1	90	110	
Mg	24	2	He	10154.192	3.175	4574226	2.82	10000	101.5	90	110	
K	39	2	He	9962.264	2.897	6139078	1.13	10000	99.6	90	110	
Mn	55	2	He	103.034	2.597	321102	0.41	100	103.0	90	110	
Co	59	2	He	101.759	2.673	542453	0.68	100	101.8	90	110	
Ni	60	2	He	103.307	4.098	131802	2.06	100	103.3	90	110	
Cu	63	2	He	101.551	2.425	369440	0.41	100	101.6	90	110	
Zn	66	2	He	101.672	1.768	82809	1.29	100	101.7	90	110	
Al	27	2	He	103.010	2.492	30501	1.48	100	103.0	90	110	
B	11	1	No Gas	495.876	1.202	700270	1.19	500	99.2	90	110	
Al	27	1	No Gas	104.378	1.125	755971	0.80	100	104.4	90	110	
Si	28	1	No Gas	549.135	1.216	2435335	1.22	500	109.8	90	110	
Ag	107	1	No Gas	103.954	0.764	653122	0.59	100	104.0	90	110	
Cd	111	1	No Gas	100.668	1.475	134784	2.27	100	100.7	90	110	
Sr	88	1	No Gas	102.126	3.144	1282424	3.82	100	102.1	90	110	
Mo	95	1	No Gas	98.903	1.534	250828	1.33	100	98.9	90	110	
Sn	118	1	No Gas	103.117	0.779	379248	0.81	100	103.1	90	110	
Sb	121	1	No Gas	101.831	1.754	616427	1.45	100	101.8	90	110	
Ba	137	1	No Gas	102.742	2.418	193065	1.69	100	102.7	90	110	
Tl	205	1	No Gas	104.696	0.231	879171	0.80	100	104.7	90	110	
Tl	203	1	No Gas	106.298	0.561	368709	1.26	100	106.3	90	110	
Pb	208	1	No Gas	101.749	1.024	1286359	0.58	100	101.7	90	110	
U	238	1	No Gas	99.045	0.574	1231938	0.55	100	99.0	90	110	
Ca	43	2	He	10129.175	3.685	16901	1.29	10000	101.3	90	110	
Sb	121	2	He	103.272	1.715	391492	1.14	100	103.3	90	110	
Ti	47	2	He	102.274	1.484	15542	3.82	100	102.3	90	110	
Cu	63	1	No Gas	98.731	1.143	620794	0.90	100	98.7	90	110	
Se	82	1	No Gas	104.575	0.777	11617	2.66	100	104.6	90	110	

QC ISTD Table

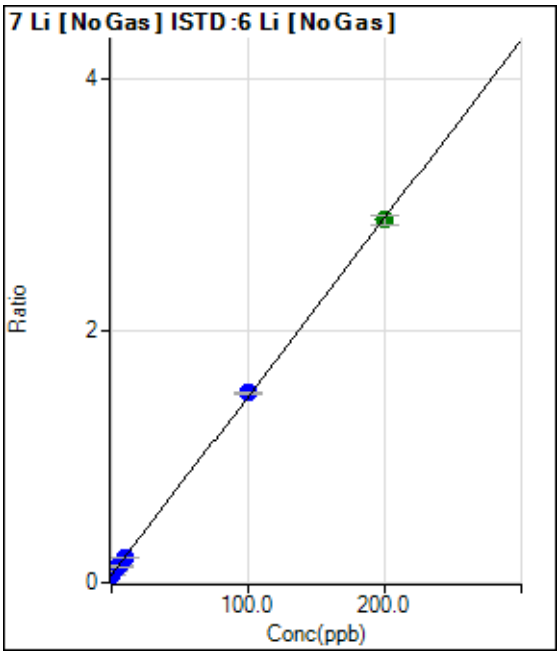
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	418054	0.36	425695	98.20	70	120	
Ge	72	2	He	403388	2.51	397960	101.36	70	120	
Ge	72	1	No Gas	1048761	1.89	1025238	102.29	70	120	
In	115	1	No Gas	985375	0.81	976955	100.86	70	120	
Bi	209	1	No Gas	768111	0.79	764763	100.44	70	120	

Calibration for 190_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\020723A.b\
Analysis File: 020723A.batch.bin
DA Date-Time: 2/7/2023 11:20:47 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	183CALB.d	CAL BLK	2/7/2023 5:08:49 PM
2	184CALS.d	2/10/200	2/7/2023 5:10:48 PM
3	185CALS.d	5/25/500	2/7/2023 5:12:48 PM
4	186CALS.d	10/50/100	2/7/2023 5:14:47 PM
5	187CALS.d	100/500/10K	2/7/2023 5:16:46 PM
6	188CALS.d	200/1000/20K	2/7/2023 5:18:42 PM

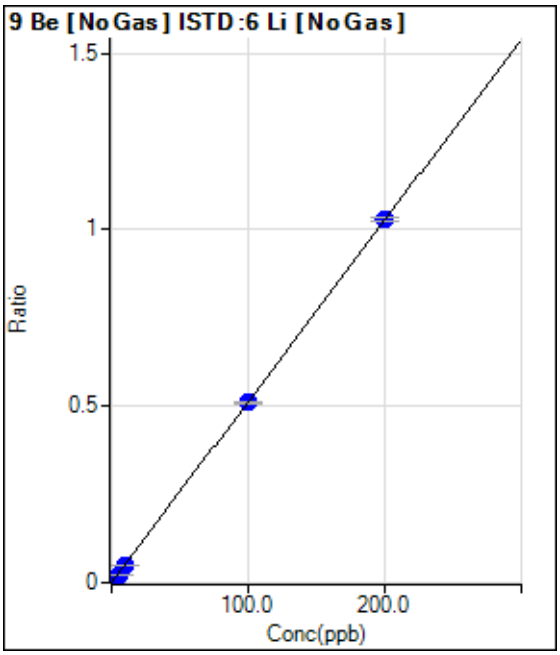
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26503.43	0.0623	P	1.4
2	☐	2.000	1.897	38290.54	0.0892	P	1.8
3	☐	5.000	4.774	55402.11	0.1300	P	1.9
4	☐	10.000	9.635	84290.12	0.1989	P	0.8
5	☐	100.000	102.027	618829.12	1.5091	P	1.3
6	☐	200.000	199.011	1166185.32	2.8845	A	2.4

y = 0.0142 * x + 0.0623
R = 0.9999
DL = 0.1827
BEC = 4.391

Weight: <None>
Min Conc: <None>

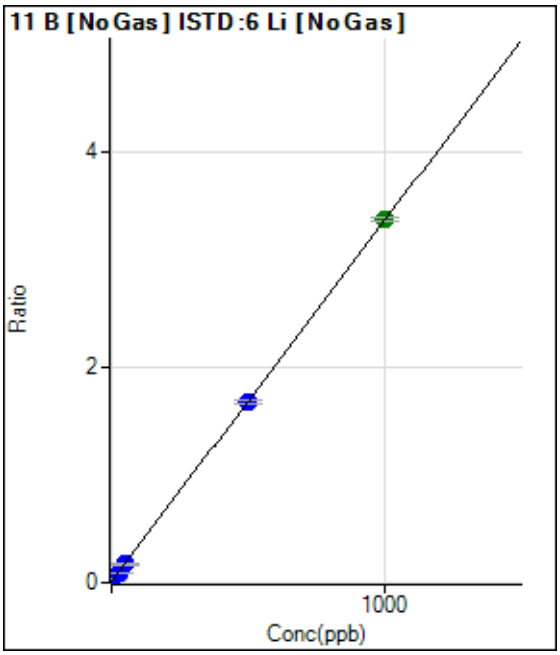


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.33	0.0000	P	58.2
2	☐	2.000	1.858	4112.30	0.0096	P	1.9
3	☐	5.000	4.632	10150.41	0.0238	P	0.2
4	☐	10.000	9.300	20229.61	0.0478	P	3.9
5	☐	100.000	99.368	209048.98	0.5098	P	1.2
6	☐	200.000	200.362	415694.52	1.0280	P	1.1

y = 0.0051 * x + 4.3400E-005
R = 1.0000
DL = 0.01478
BEC = 0.008459

Weight: <None>
Min Conc: <None>

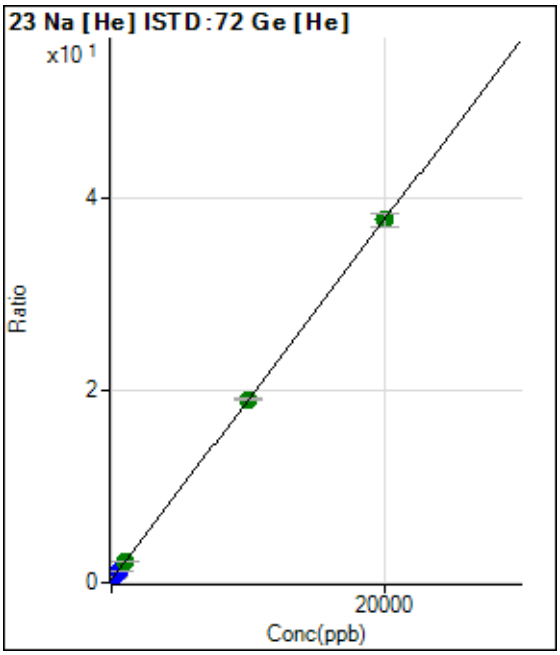
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6261.46	0.0147	P	2.6
2	☐	10.000	9.086	19376.78	0.0451	P	2.8
3	☐	25.000	22.531	38432.59	0.0902	P	1.5
4	☐	50.000	46.301	71928.39	0.1697	P	1.7
5	☐	500.000	496.675	687888.79	1.6778	P	1.9
6	☐	1000.000	1001.919	1362818.94	3.3695	A	0.9

y = 0.0033 * x + 0.0147
R = 1.0000
DL = 0.3392
BEC = 4.395

Weight: <None>
Min Conc: <None>

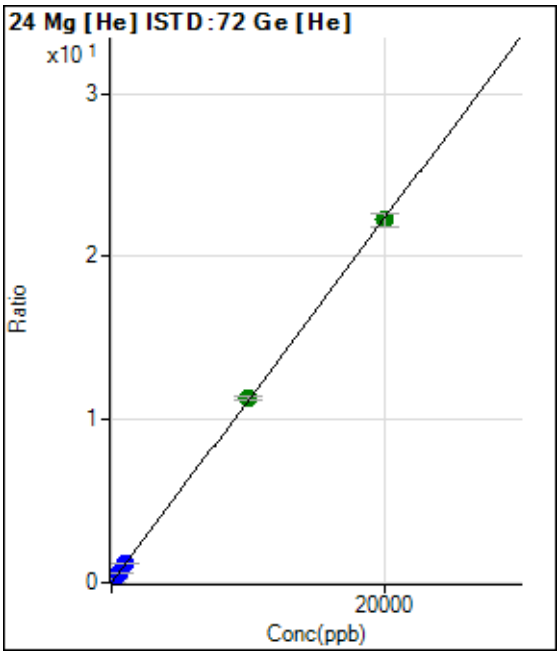


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120607.12	0.3031	P	1.3
2	☐	200.000	198.684	273442.08	0.6748	P	1.2
3	☐	500.000	514.066	502795.01	1.2649	P	1.8
4	☐	1000.000	1011.833	876442.41	2.1963	A	1.3
5	☐	10000.000	10012.505	7592087.39	19.0371	A	1.4
6	☐	20000.000	19992.818	15007547.69	37.7109	A	3.4

y = 0.0019 * x + 0.3031
R = 1.0000
DL = 6.48
BEC = 162

Weight: <None>
Min Conc: <None>

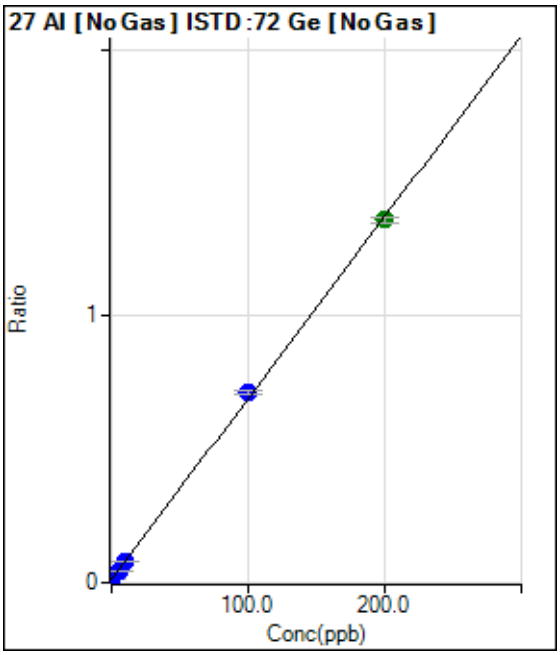
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.34	0.0010	P	13.3
2	☐	200.000	203.686	92577.85	0.2285	P	0.9
3	☐	500.000	519.138	230862.05	0.5808	P	2.7
4	☐	1000.000	1027.525	458375.80	1.1487	P	1.6
5	☐	10000.000	10166.008	4528705.77	11.3559	A	2.5
6	☐	20000.000	19915.105	8850810.28	22.2451	A	3.9

y = 0.0011 * x + 9.6416E-004
R = 1.0000
DL = 0.3446
BEC = 0.8632

Weight: <None>
Min Conc: <None>

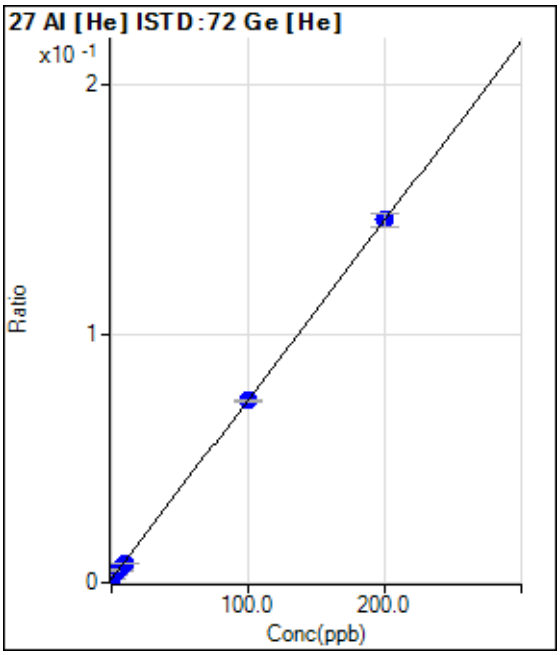


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11645.05	0.0114	P	2.3
2	☐	2.000	2.172	27153.58	0.0261	P	1.7
3	☐	5.000	4.746	45522.25	0.0436	P	4.3
4	☐	10.000	10.118	82863.48	0.0801	P	3.2
5	☐	100.000	103.162	720914.91	0.7127	P	1.4
6	☐	200.000	198.418	1377274.72	1.3602	A	1.9

y = 0.0068 * x + 0.0114
R = 0.9998
DL = 0.1145
BEC = 1.671

Weight: <None>
Min Conc: <None>

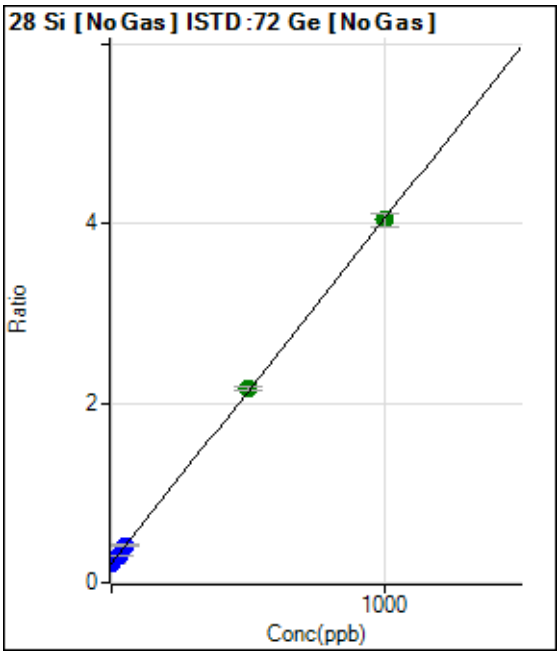
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	580.02	0.0015	P	15.4
2	☐	2.000	2.068	1193.41	0.0029	P	2.0
3	☐	5.000	5.013	2013.52	0.0051	P	3.8
4	☐	10.000	8.939	3150.41	0.0079	P	4.5
5	☐	100.000	99.428	29134.39	0.0731	P	0.9
6	☐	200.000	200.338	57984.84	0.1457	P	3.6

y = 7.2013E-004 * x + 0.0015
R = 1.0000
DL = 0.9355
BEC = 2.022

Weight: <None>
Min Conc: <None>

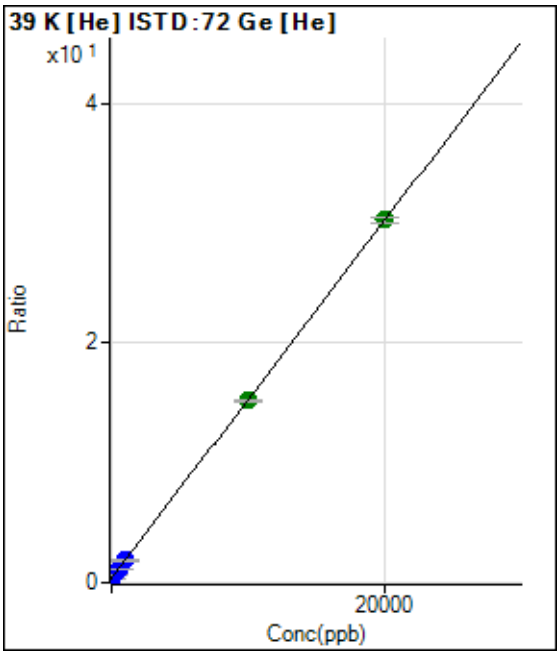


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220607.76	0.2153	P	2.7
2	☐	10.000	9.704	262424.49	0.2525	P	1.7
3	☐	25.000	23.124	317356.06	0.3040	P	2.4
4	☐	50.000	52.645	431147.43	0.4173	P	6.9
5	☐	500.000	505.618	2180627.26	2.1554	A	2.1
6	☐	1000.000	997.109	4089400.04	4.0413	A	3.6

y = 0.0038 * x + 0.2153
R = 1.0000
DL = 4.552
BEC = 56.1

Weight: <None>
Min Conc: <None>

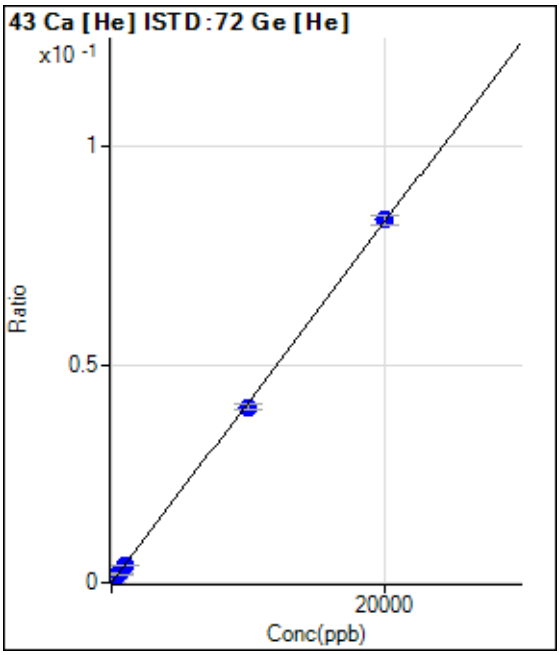
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	145257.51	0.3650	P	1.3
2	☐	200.000	189.866	262664.20	0.6482	P	1.9
3	☐	500.000	499.165	441044.43	1.1096	P	2.7
4	☐	1000.000	994.773	737822.25	1.8489	P	0.7
5	☐	10000.000	9925.446	6049972.62	15.1705	A	1.1
6	☐	20000.000	20037.661	12043175.65	30.2546	A	1.9

y = 0.0015 * x + 0.3650
R = 1.0000
DL = 9.587
BEC = 244.7

Weight: <None>
Min Conc: <None>

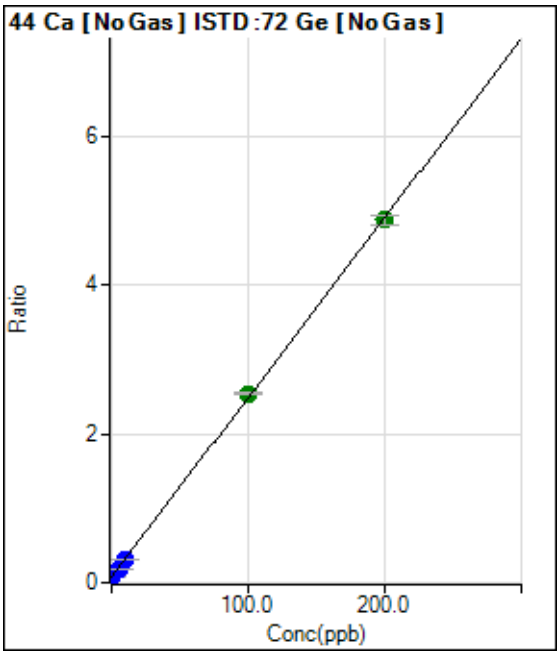


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	115.3
2	☐	200.000	198.699	346.68	0.0009	P	33.7
3	☐	500.000	488.781	816.71	0.0021	P	13.7
4	☐	1000.000	957.598	1593.46	0.0040	P	6.2
5	☐	10000.000	9742.369	16079.64	0.0403	P	3.0
6	☐	20000.000	20131.229	33153.80	0.0833	P	2.5

y = 4.1354E-006 * x + 3.3674E-005
R = 0.9999
DL = 28.18
BEC = 8.143

Weight: <None>
Min Conc: <None>

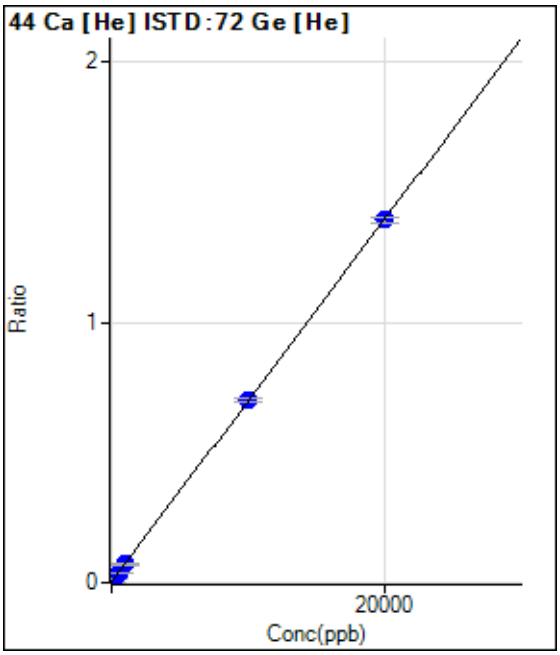
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78369.23	0.0765	P	2.4
2	☐	2.000	1.896	127095.78	0.1223	P	1.8
3	☐	5.000	4.757	199795.70	0.1914	P	2.5
4	☐	10.000	9.919	326859.46	0.3161	P	3.2
5	☐	100.000	102.106	2572950.27	2.5435	A	1.5
6	☐	200.000	198.958	4942515.14	4.8835	A	3.0

y = 0.0242 * x + 0.0765
R = 0.9999
DL = 0.2274
BEC = 3.165

Weight: <None>
Min Conc: <None>

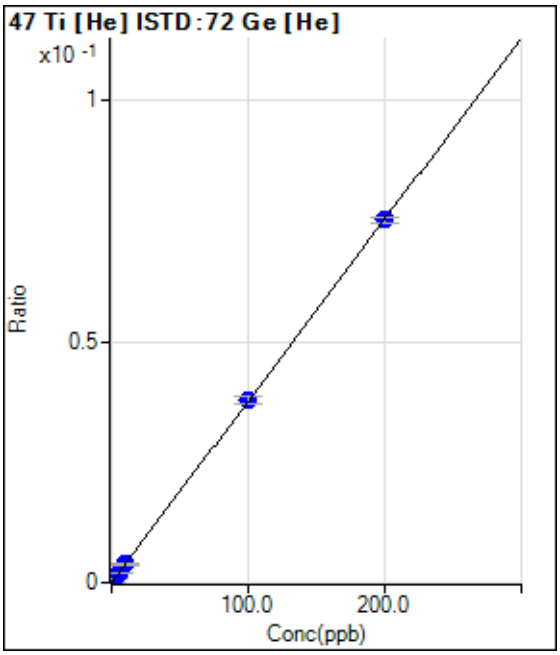


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1223.41	0.0031	P	4.0
2	☐	200.000	181.176	6358.25	0.0157	P	2.1
3	☐	500.000	492.944	14868.26	0.0374	P	1.4
4	☐	1000.000	976.881	28372.99	0.0711	P	3.2
5	☐	10000.000	10041.628	280115.36	0.7024	P	1.7
6	☐	20000.000	19980.706	555137.19	1.3946	P	1.5

y = 6.9641E-005 * x + 0.0031
R = 1.0000
DL = 5.236
BEC = 44.13

Weight: <None>
Min Conc: <None>

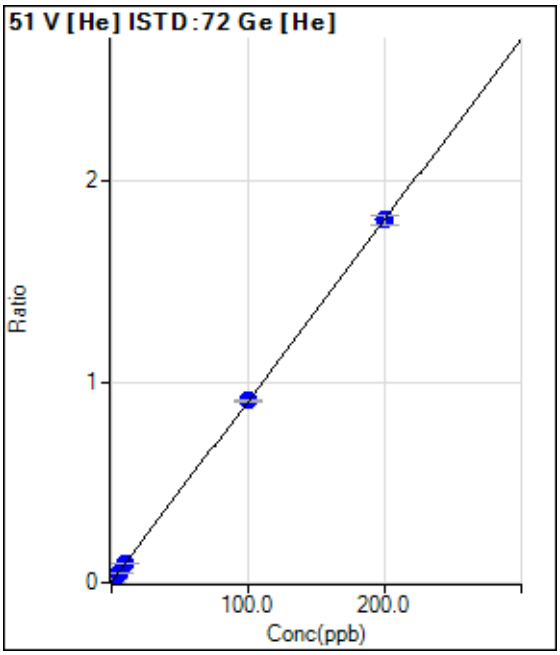
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.878	293.34	0.0007	P	28.8
3	☐	5.000	5.371	810.04	0.0020	P	13.0
4	☐	10.000	10.179	1536.78	0.0038	P	11.4
5	☐	100.000	100.222	15055.17	0.0377	P	4.3
6	☐	200.000	199.872	29959.85	0.0753	P	1.6

y = 3.7649E-004 * x + 1.6569E-005
R = 1.0000
DL = 0.2287
BEC = 0.04401

Weight: <None>
Min Conc: <None>

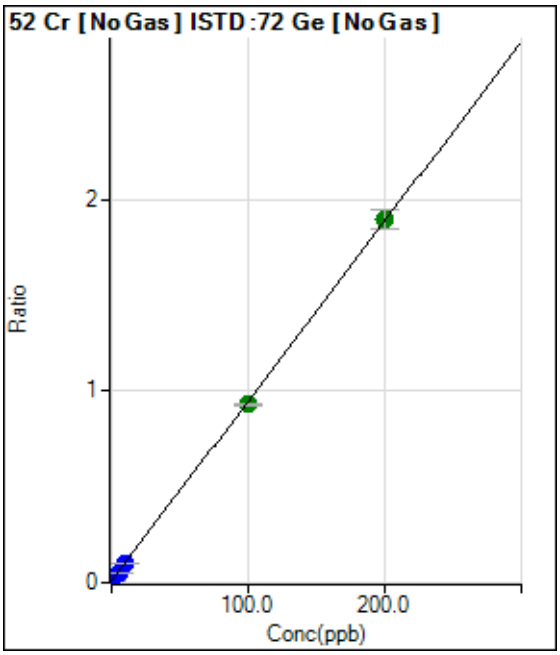


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1601.22	0.0040	P	4.7
2	☐	2.000	1.895	8558.27	0.0211	P	1.3
3	☐	5.000	4.757	18657.19	0.0469	P	3.6
4	☐	10.000	9.841	37031.12	0.0928	P	1.9
5	☐	100.000	100.097	361722.27	0.9070	P	0.4
6	☐	200.000	199.967	719607.82	1.8080	P	2.3

y = 0.0090 * x + 0.0040
R = 1.0000
DL = 0.06341
BEC = 0.4461

Weight: <None>
Min Conc: <None>

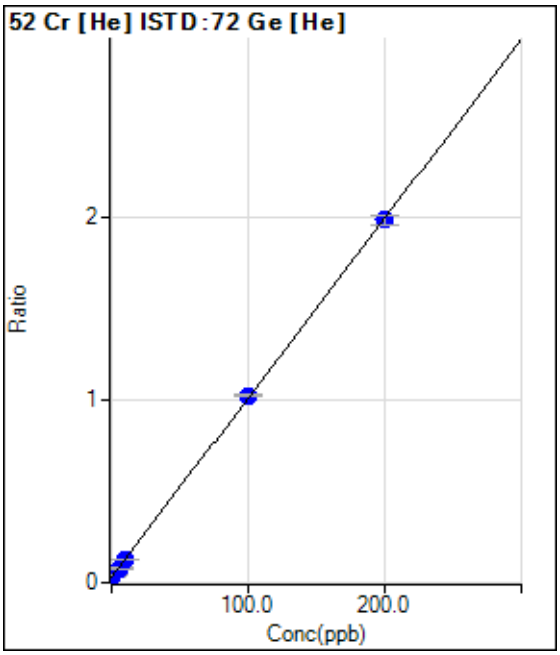
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10244.03	0.0100	P	6.0
2	☐	2.000	1.830	28239.66	0.0272	P	6.3
3	☐	5.000	4.588	55382.55	0.0531	P	2.3
4	☐	10.000	9.991	107286.46	0.1038	P	3.2
5	☐	100.000	98.281	943155.22	0.9323	A	1.0
6	☐	200.000	200.872	1916906.38	1.8951	A	5.4

y = 0.0094 * x + 0.0100
R = 0.9999
DL = 0.1914
BEC = 1.066

Weight: <None>
Min Conc: <None>

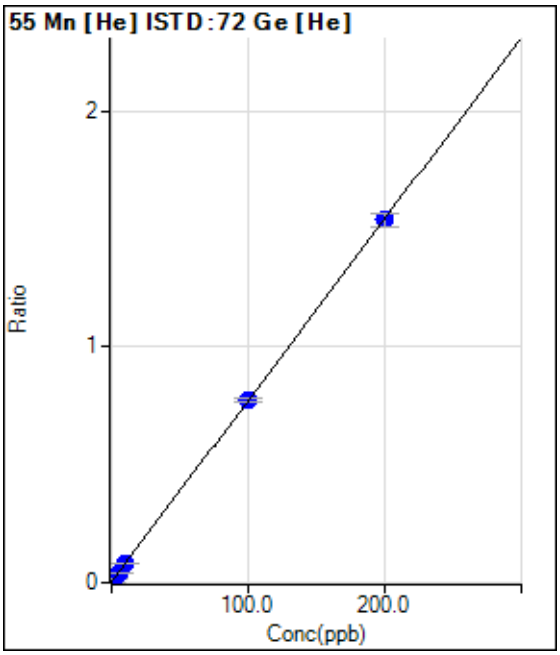


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11965.39	0.0301	P	1.7
2	☐	2.000	1.785	19290.69	0.0476	P	2.2
3	☐	5.000	4.918	31159.28	0.0784	P	2.2
4	☐	10.000	9.990	51169.44	0.1282	P	1.4
5	☐	100.000	101.342	409088.32	1.0258	P	0.8
6	☐	200.000	199.334	791460.93	1.9886	P	2.4

y = 0.0098 * x + 0.0301
R = 1.0000
DL = 0.1548
BEC = 3.06

Weight: <None>
Min Conc: <None>

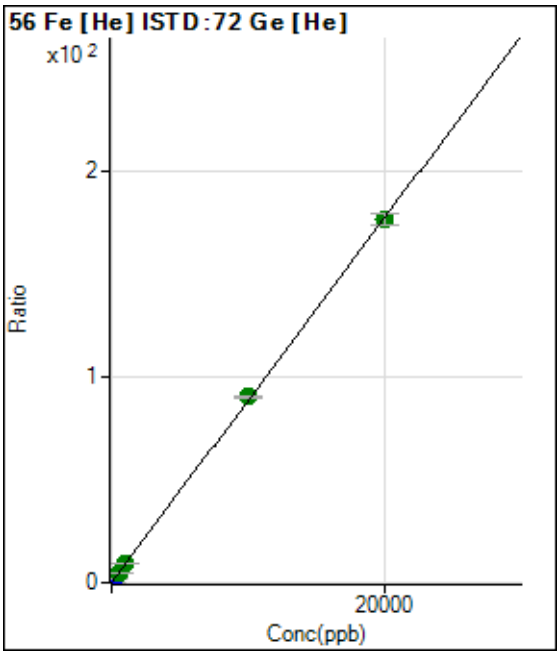
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1443.44	0.0036	P	4.1
2	☐	2.000	1.829	7172.01	0.0177	P	6.0
3	☐	5.000	4.695	15799.45	0.0397	P	1.6
4	☐	10.000	9.817	31586.99	0.0792	P	3.7
5	☐	100.000	100.791	310713.22	0.7791	P	2.1
6	☐	200.000	199.623	612578.25	1.5395	P	3.5

y = 0.0077 * x + 0.0036
R = 1.0000
DL = 0.05838
BEC = 0.4713

Weight: <None>
Min Conc: <None>

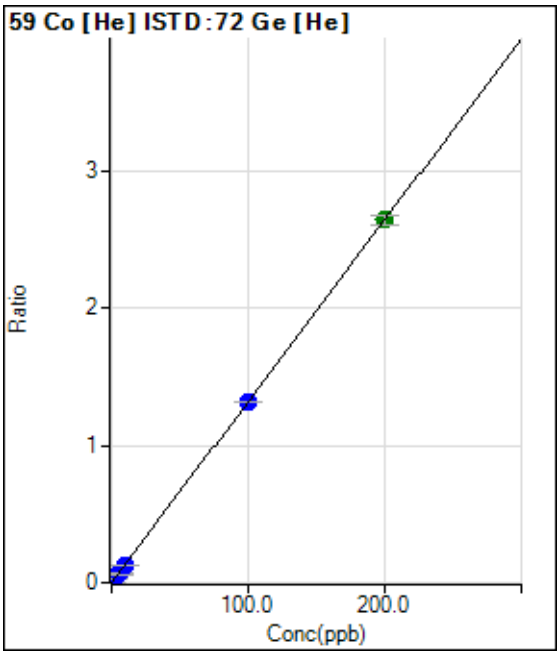


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20635.91	0.0519	P	1.8
2	☐	200.000	195.784	724520.56	1.7880	P	1.5
3	☐	500.000	501.621	1788856.80	4.5001	A	0.5
4	☐	1000.000	1001.215	3563834.42	8.9304	A	0.3
5	☐	10000.000	10202.604	36101697.80	90.5262	A	1.1
6	☐	20000.000	19898.639	70241248.95	176.5084	A	3.1

y = 0.0089 * x + 0.0519
R = 0.9999
DL = 0.315
BEC = 5.848

Weight: <None>
Min Conc: <None>

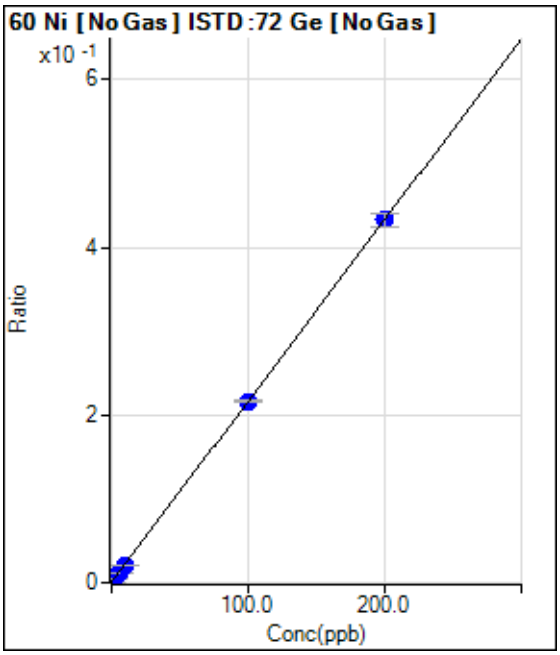
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0002	P	56.1
2	☐	2.000	1.954	10540.98	0.0260	P	2.7
3	☐	5.000	4.764	25106.76	0.0632	P	1.6
4	☐	10.000	9.734	51420.67	0.1289	P	0.3
5	☐	100.000	99.706	525684.47	1.3182	P	0.8
6	☐	200.000	200.167	1053160.43	2.6462	A	2.3

y = 0.0132 * x + 1.8489E-004
R = 1.0000
DL = 0.02354
BEC = 0.01399

Weight: <None>
Min Conc: <None>

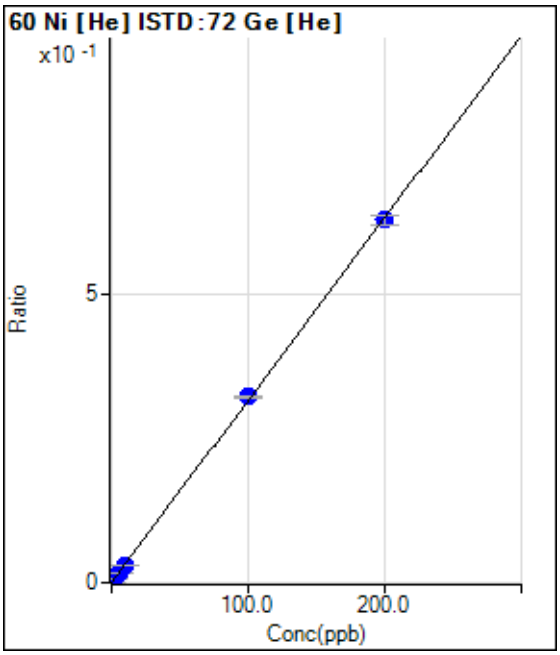


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	420.01	0.0004	P	12.4
2	☐	2.000	2.046	5017.71	0.0048	P	3.1
3	☐	5.000	4.973	11648.53	0.0112	P	5.4
4	☐	10.000	9.746	22215.09	0.0215	P	2.4
5	☐	100.000	99.923	218791.99	0.2163	P	1.0
6	☐	200.000	200.052	437749.97	0.4326	P	3.5

y = 0.0022 * x + 4.0903E-004
R = 1.0000
DL = 0.07055
BEC = 0.1893

Weight: <None>
Min Conc: <None>

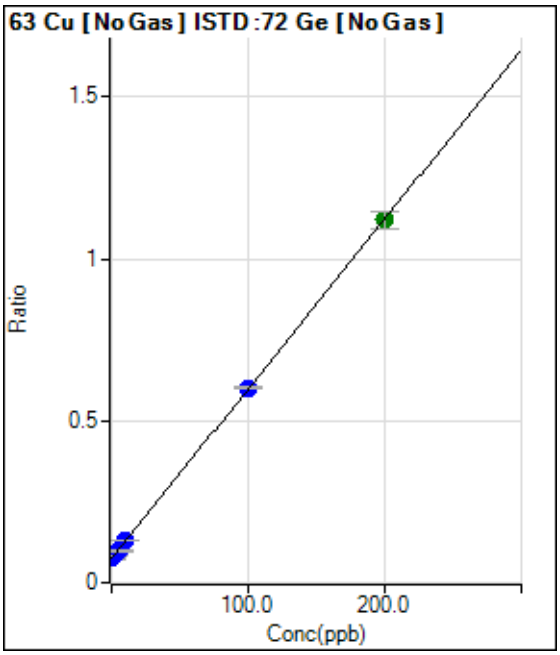
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0003	P	27.1
2	☐	2.000	1.866	2500.28	0.0062	P	2.4
3	☐	5.000	5.082	6494.99	0.0163	P	4.6
4	☐	10.000	9.768	12432.55	0.0312	P	1.8
5	☐	100.000	102.018	128759.27	0.3229	P	1.0
6	☐	200.000	199.002	250540.70	0.6295	P	2.7

y = 0.0032 * x + 2.6808E-004
R = 0.9999
DL = 0.06904
BEC = 0.08478

Weight: <None>
Min Conc: <None>

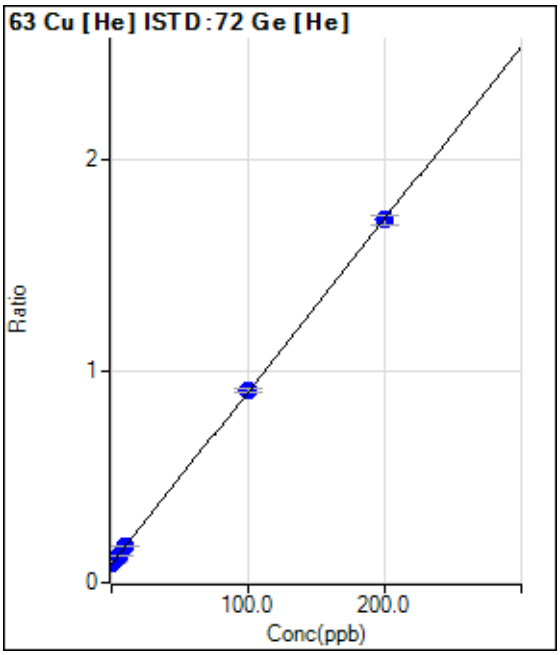


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76380.44	0.0745	P	1.9
2	☐	2.000	1.826	87403.00	0.0841	P	1.3
3	☐	5.000	4.617	103021.14	0.0987	P	3.7
4	☐	10.000	10.760	135403.62	0.1309	P	1.9
5	☐	100.000	100.744	609545.09	0.6026	P	1.0
6	☐	200.000	199.602	1133724.75	1.1207	A	5.0

y = 0.0052 * x + 0.0745
R = 1.0000
DL = 0.7898
BEC = 14.22

Weight: <None>
Min Conc: <None>

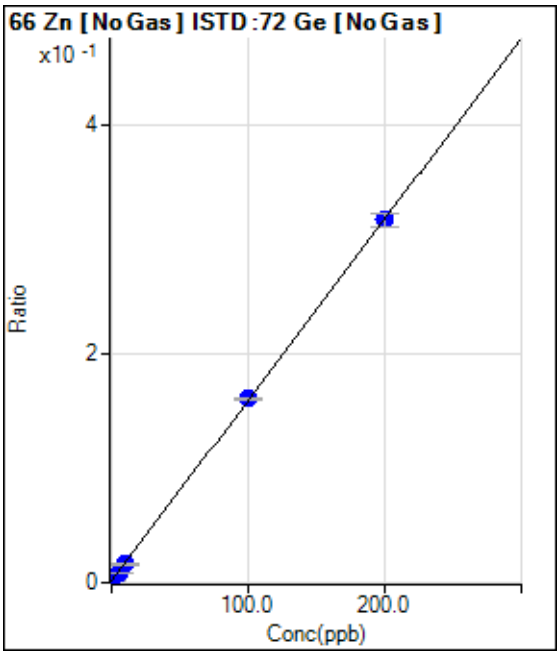
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34998.63	0.0879	P	1.7
2	☐	2.000	1.733	41363.12	0.1021	P	2.9
3	☐	5.000	5.143	51634.85	0.1299	P	0.5
4	☐	10.000	10.288	68572.97	0.1719	P	2.9
5	☐	100.000	100.871	363150.89	0.9106	P	1.3
6	☐	200.000	199.549	682696.63	1.7154	P	2.7

y = 0.0082 * x + 0.0879
R = 1.0000
DL = 0.5649
BEC = 10.78

Weight: <None>
Min Conc: <None>

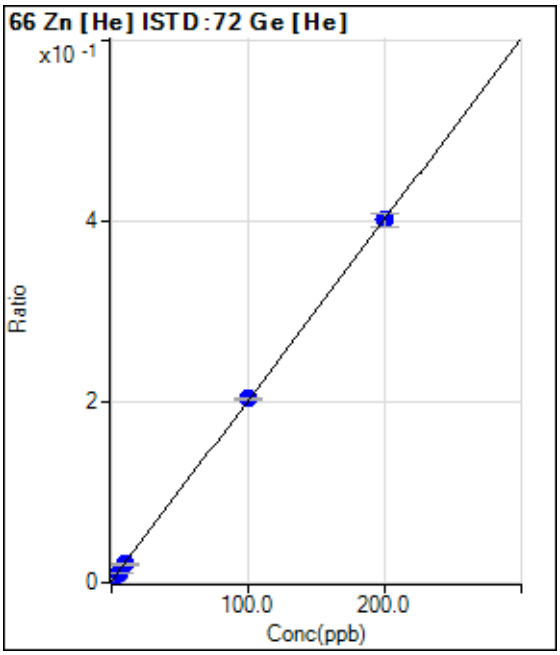


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1526.79	0.0015	P	6.0
2	☐	2.000	1.763	4440.81	0.0043	P	1.6
3	☐	5.000	4.629	9183.26	0.0088	P	1.4
4	☐	10.000	9.386	16847.50	0.0163	P	4.5
5	☐	100.000	100.755	162308.09	0.1604	P	1.1
6	☐	200.000	199.665	320266.99	0.3165	P	3.4

y = 0.0016 * x + 0.0015
R = 1.0000
DL = 0.1698
BEC = 0.9446

Weight: <None>
Min Conc: <None>

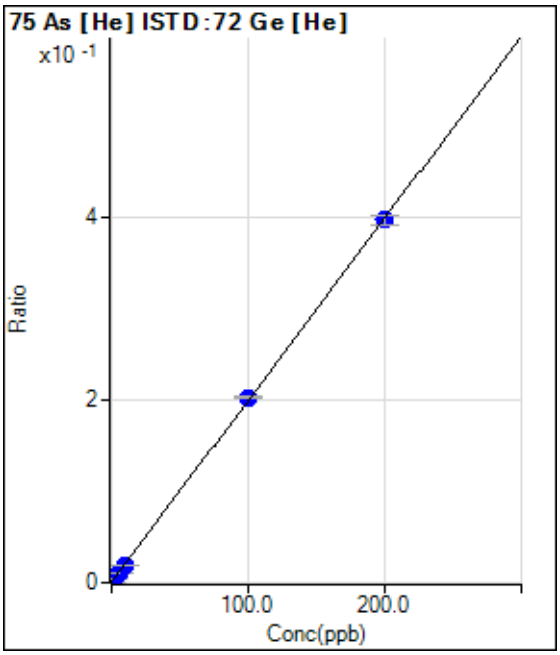
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	696.70	0.0018	P	9.9
2	☑	2.000		2080.19	0.0051	P	2.0
3	☐	5.000	4.801	4517.51	0.0114	P	0.5
4	☐	10.000	9.304	8132.59	0.0204	P	4.8
5	☐	100.000	100.674	81088.96	0.2033	P	2.0
6	☐	200.000	199.703	159817.33	0.4016	P	3.4

y = 0.0020 * x + 0.0018
R = 1.0000
DL = 0.261
BEC = 0.8746

Weight: <None>
Min Conc: <None>

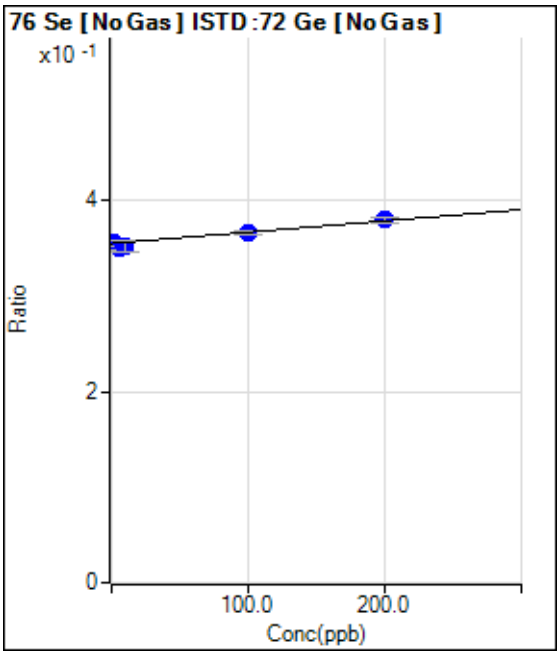


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	184.45	0.0005	P	3.9
2	☐	2.000	1.997	1795.68	0.0044	P	2.0
3	☐	5.000	4.846	4011.73	0.0101	P	2.8
4	☐	10.000	9.572	7775.62	0.0195	P	2.4
5	☐	100.000	101.575	80684.25	0.2023	P	0.9
6	☐	200.000	199.238	157758.30	0.3964	P	2.6

y = 0.0020 * x + 4.6343E-004
R = 1.0000
DL = 0.02748
BEC = 0.2332

Weight: <None>
Min Conc: <None>

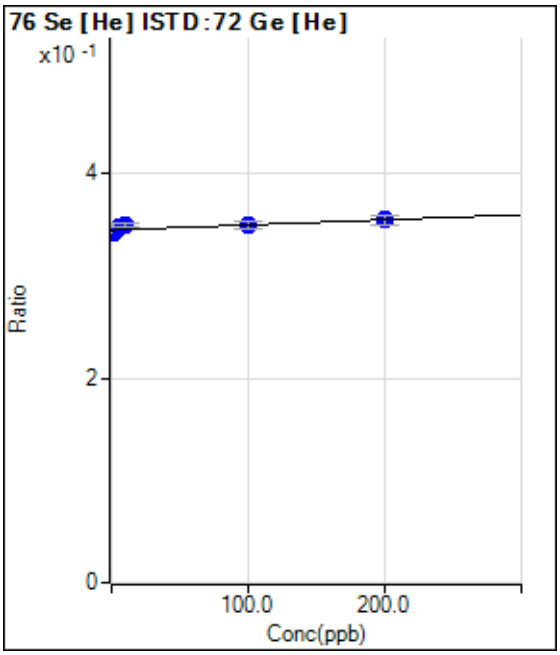
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	364214.67	0.3553	P	1.0
2	☐	2.000	7.577	370231.27	0.3562	P	1.4
3	☐	5.000	-43.833	365572.44	0.3501	P	1.2
4	☐	10.000	-27.204	364050.87	0.3521	P	3.7
5	☐	100.000	89.358	370090.69	0.3658	P	1.1
6	☐	200.000	208.346	384509.98	0.3798	P	1.8

y = 1.1770E-004 * x + 0.3553
R = 0.9744
DL = 94.21
BEC = 3019

Weight: <None>
Min Conc: <None>

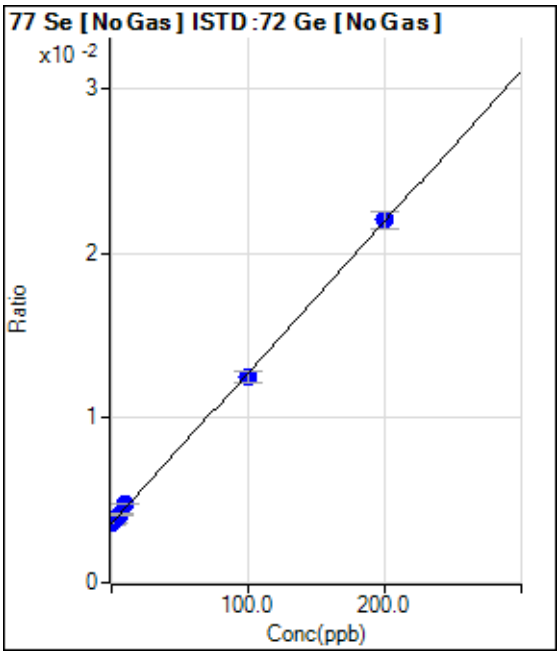


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	137221.39	0.3448	P	0.7
2	☐	2.000	-48.545	138728.85	0.3424	P	0.3
3	☐	5.000	73.867	138538.01	0.3485	P	0.3
4	☐	10.000	91.881	139436.80	0.3494	P	1.2
5	☐	100.000	97.362	139467.46	0.3497	P	2.1
6	☐	200.000	196.009	141141.71	0.3547	P	2.8

y = 5.0275E-005 * x + 0.3448
R = 0.8197
DL = 145.3
BEC = 6858

Weight: <None>
Min Conc: <None>

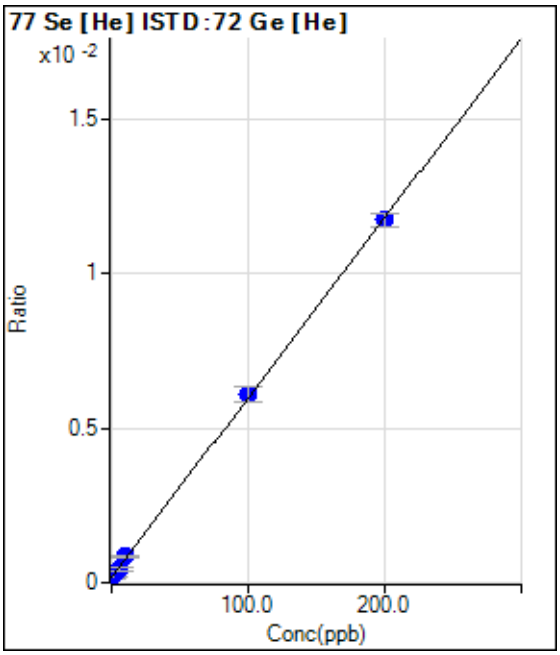
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3693.90	0.0036	P	6.9
2	☐	2.000	1.321	3870.63	0.0037	P	4.4
3	☐	5.000	5.918	4330.77	0.0041	P	1.9
4	☐	10.000	12.955	4957.67	0.0048	P	2.1
5	☐	100.000	97.509	12696.12	0.0126	P	5.5
6	☐	200.000	201.082	22315.35	0.0221	P	4.7

y = 9.1773E-005 * x + 0.0036
R = 0.9997
DL = 8.08
BEC = 39.27

Weight: <None>
Min Conc: <None>

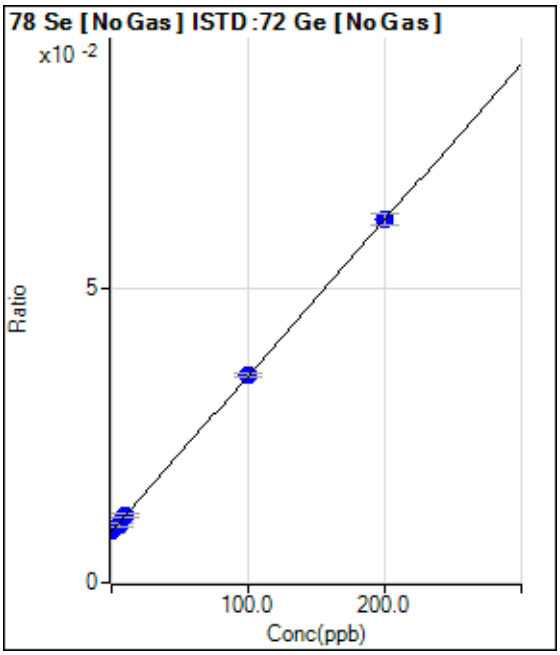


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0002	P	38.7
2	☐	2.000	1.216	100.00	0.0002	P	53.0
3	☐	5.000	4.330	170.00	0.0004	P	26.2
4	☐	10.000	11.478	336.68	0.0008	P	1.1
5	☐	100.000	101.903	2433.60	0.0061	P	9.1
6	☐	200.000	198.999	4674.25	0.0117	P	3.8

y = 5.8145E-005 * x + 1.7625E-004
R = 0.9999
DL = 3.521
BEC = 3.031

Weight: <None>
Min Conc: <None>

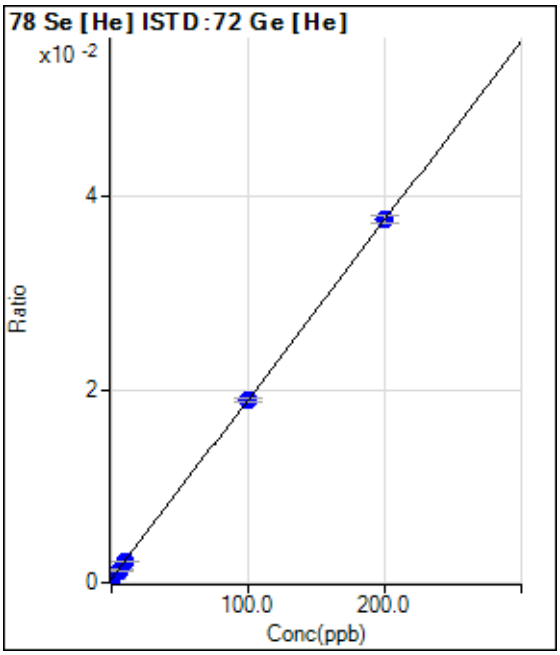
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8919.76	0.0087	P	3.5
2	☐	2.000	2.190	9646.92	0.0093	P	1.5
3	☐	5.000	4.076	10204.01	0.0098	P	5.9
4	☐	10.000	10.078	11745.32	0.0114	P	6.5
5	☐	100.000	100.039	35560.71	0.0352	P	1.7
6	☐	200.000	199.998	62321.19	0.0616	P	3.1

y = 2.6438E-004 * x + 0.0087
R = 1.0000
DL = 3.487
BEC = 32.92

Weight: <None>
Min Conc: <None>

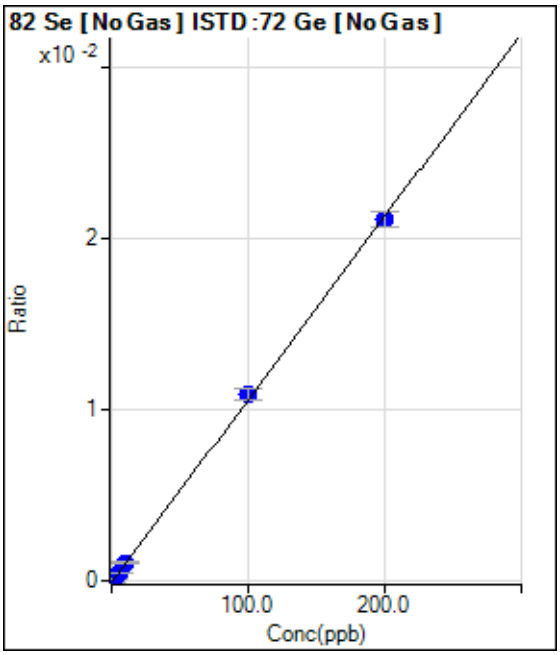


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.67	0.0004	P	0.8
2	☐	2.000	1.901	306.67	0.0008	P	8.5
3	☐	5.000	4.790	514.01	0.0013	P	6.0
4	☐	10.000	9.891	894.03	0.0022	P	1.1
5	☐	100.000	99.616	7537.46	0.0189	P	1.7
6	☐	200.000	200.204	14956.99	0.0376	P	2.2

y = 1.8569E-004 * x + 4.0370E-004
R = 1.0000
DL = 0.0553
BEC = 2.174

Weight: <None>
Min Conc: <None>

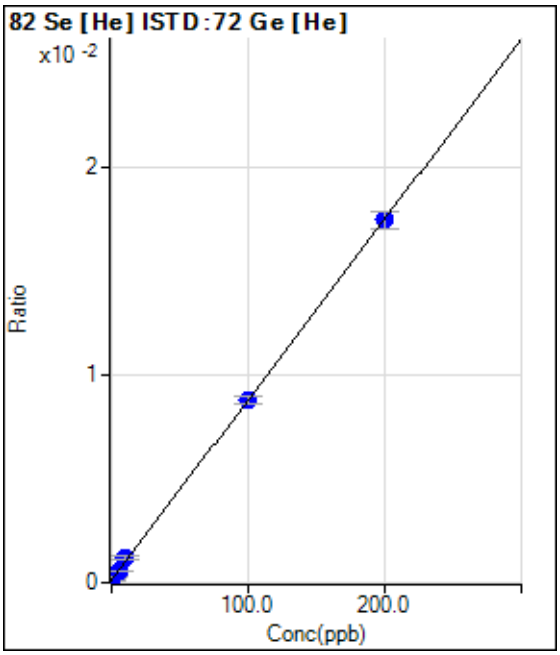
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-91.98	-0.0001	P	-38.5
2	☐	2.000	2.356	167.96	0.0002	P	48.0
3	☐	5.000	5.254	491.14	0.0005	P	21.3
4	☐	10.000	10.825	1101.44	0.0011	P	11.7
5	☐	100.000	102.853	11016.33	0.0109	P	5.7
6	☐	200.000	198.522	21355.80	0.0211	P	4.1

y = 1.0677E-004 * x - 8.9468E-005
R = 0.9999
DL = 0.9686
BEC = -0.838

Weight: <None>
Min Conc: <None>

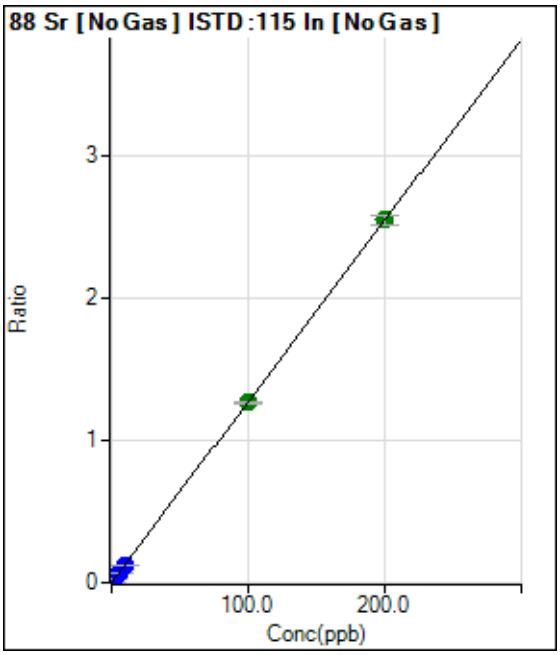


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	72.2
2	☐	2.000	2.440	136.67	0.0003	P	8.7
3	☐	5.000	4.833	216.68	0.0005	P	9.6
4	☐	10.000	12.127	470.02	0.0012	P	13.7
5	☐	100.000	100.137	3517.19	0.0088	P	4.4
6	☐	200.000	199.825	6955.26	0.0175	P	4.4

y = 8.6815E-005 * x + 1.2551E-004
R = 0.9999
DL = 3.132
BEC = 1.446

Weight: <None>
Min Conc: <None>

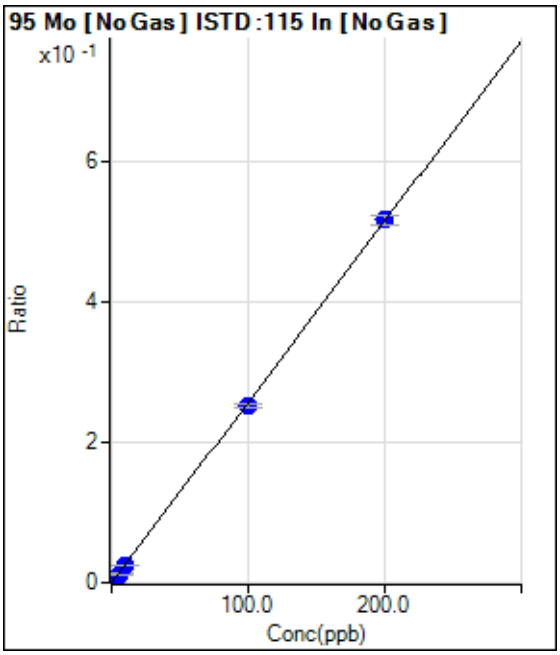
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.68	0.0005	P	12.0
2	☐	2.000	1.932	24953.62	0.0251	P	4.7
3	☐	5.000	4.790	60138.82	0.0615	P	1.0
4	☐	10.000	9.760	122386.85	0.1248	P	3.5
5	☐	100.000	99.289	1236923.60	1.2651	A	1.5
6	☐	200.000	200.374	2444296.94	2.5527	A	2.5

y = 0.0127 * x + 4.7828E-004
R = 1.0000
DL = 0.01351
BEC = 0.03755

Weight: <None>
Min Conc: <None>

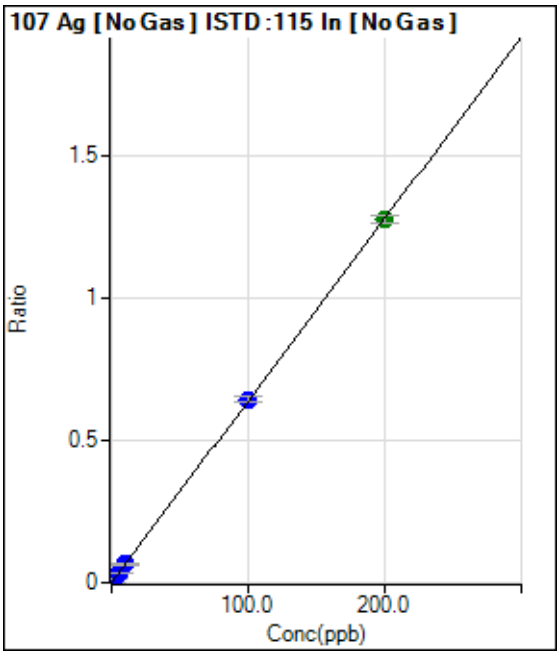


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	41.9
2	☐	2.000	1.907	4907.66	0.0049	P	9.7
3	☐	5.000	4.731	11932.25	0.0122	P	2.9
4	☐	10.000	9.512	24028.69	0.0245	P	5.5
5	☐	100.000	98.216	247118.67	0.2528	P	2.7
6	☐	200.000	200.924	495148.17	0.5171	P	2.5

y = 0.0026 * x + 2.7201E-005
R = 0.9999
DL = 0.01328
BEC = 0.01057

Weight: <None>
Min Conc: <None>

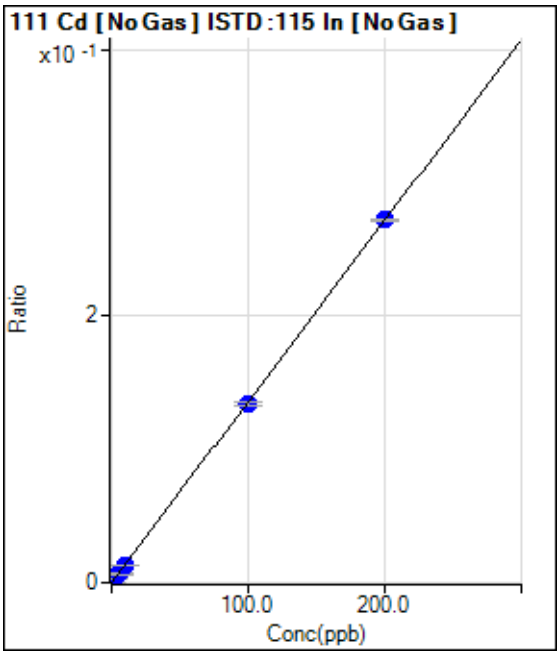
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	56.3
2	☐	2.000	1.972	12542.87	0.0126	P	2.5
3	☐	5.000	4.913	30659.41	0.0314	P	4.0
4	☐	10.000	10.099	63184.44	0.0644	P	3.2
5	☐	100.000	100.902	628946.62	0.6434	P	2.5
6	☐	200.000	199.546	1218635.84	1.2723	A	2.3

y = 0.0064 * x + 3.0564E-005
R = 1.0000
DL = 0.008098
BEC = 0.004794

Weight: <None>
Min Conc: <None>

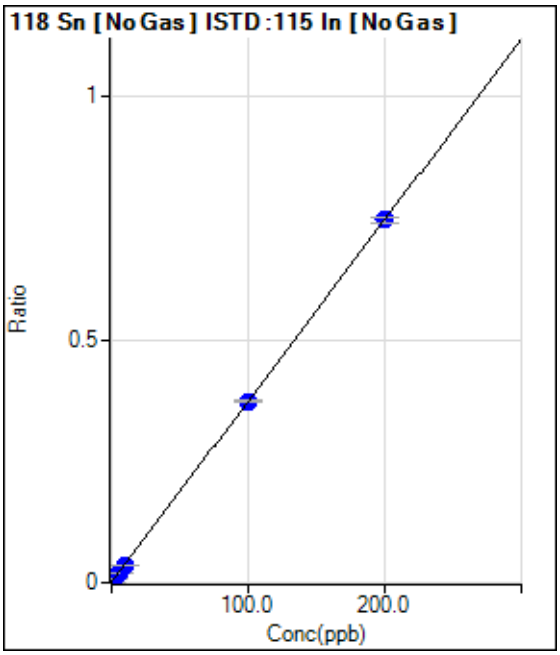


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	2.000	1.786	2416.94	0.0024	P	9.3
3	☐	5.000	4.840	6431.69	0.0066	P	5.9
4	☐	10.000	9.509	12676.38	0.0129	P	4.6
5	☐	100.000	99.053	131575.43	0.1346	P	1.5
6	☐	200.000	200.504	260912.42	0.2724	P	0.5

y = 0.0014 * x + 3.3905E-006
R = 1.0000
DL = 0.01297
BEC = 0.002496

Weight: <None>
Min Conc: <None>

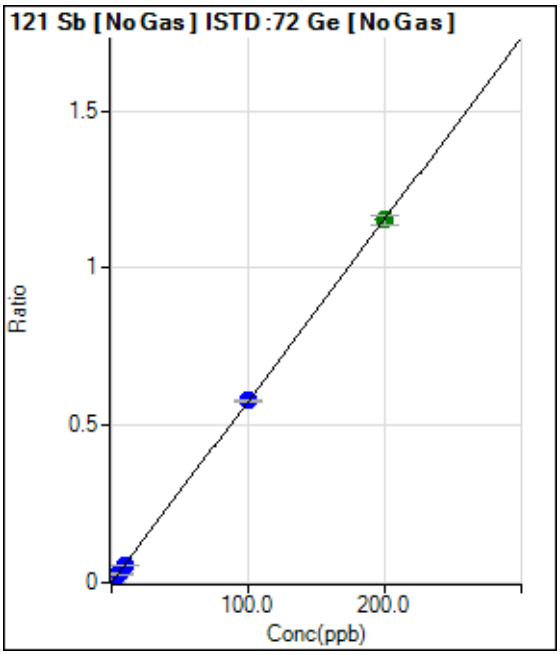
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	933.38	0.0010	P	9.0
2	☐	2.000	1.819	7689.07	0.0077	P	2.2
3	☐	5.000	4.744	18206.20	0.0186	P	5.8
4	☐	10.000	9.669	36244.02	0.0370	P	3.2
5	☐	100.000	99.794	364226.70	0.3725	P	1.2
6	☐	200.000	200.128	714471.79	0.7461	P	1.3

y = 0.0037 * x + 9.5475E-004
R = 1.0000
DL = 0.06922
BEC = 0.2564

Weight: <None>
Min Conc: <None>

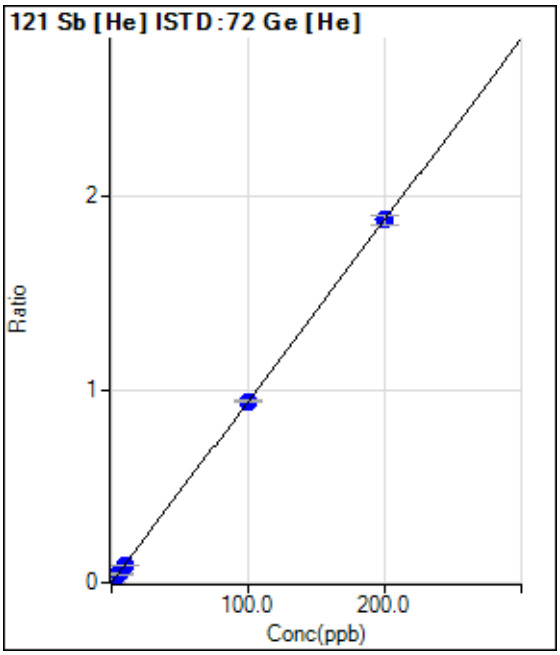


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173.34	0.0002	P	13.7
2	☐	2.000	1.895	11545.27	0.0111	P	4.8
3	☐	5.000	4.746	28772.06	0.0276	P	1.1
4	☐	10.000	9.668	57864.58	0.0560	P	3.4
5	☐	100.000	100.367	586130.77	0.5794	P	0.9
6	☐	200.000	199.840	1167465.06	1.1535	A	2.6

y = 0.0058 * x + 1.6935E-004
R = 1.0000
DL = 0.01207
BEC = 0.02934

Weight: <None>
Min Conc: <None>

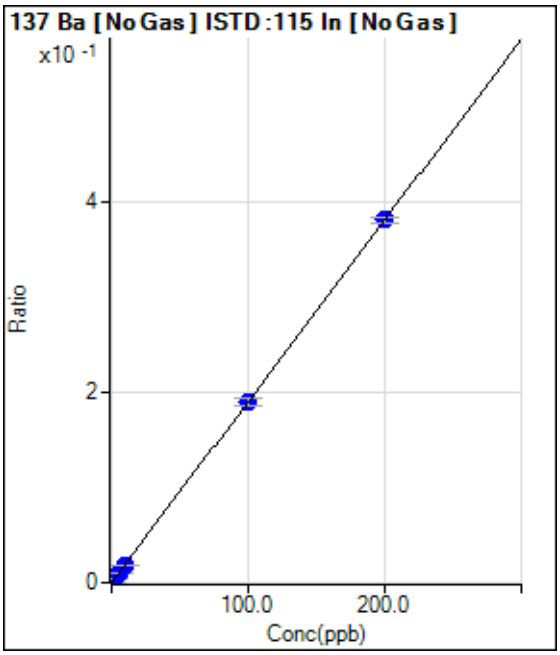
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.67	0.0002	P	43.7
2	☐	2.000	1.909	7358.84	0.0182	P	0.8
3	☐	5.000	4.776	17925.88	0.0451	P	5.6
4	☐	10.000	9.498	35705.80	0.0895	P	1.6
5	☐	100.000	99.925	374603.93	0.9393	P	0.8
6	☐	200.000	200.069	748396.42	1.8805	P	2.5

y = 0.0094 * x + 2.1774E-004
R = 1.0000
DL = 0.03038
BEC = 0.02317

Weight: <None>
Min Conc: <None>

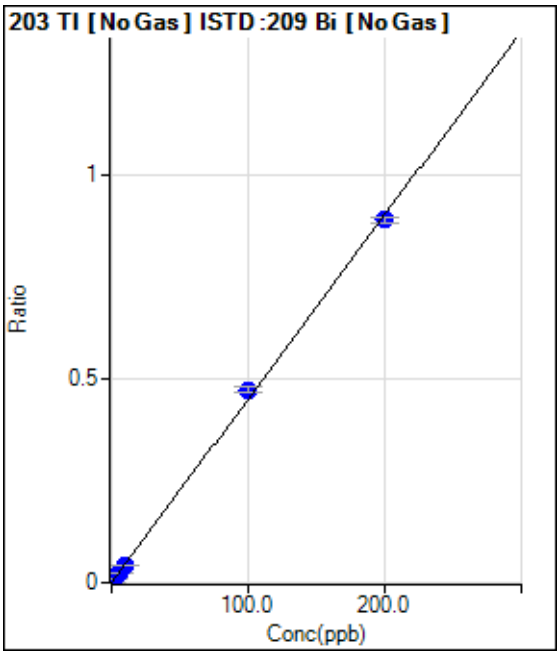


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0001	P	8.0
2	☐	2.000	2.059	4044.06	0.0041	P	2.4
3	☐	5.000	4.828	9133.43	0.0093	P	4.1
4	☐	10.000	9.832	18520.15	0.0189	P	2.2
5	☐	100.000	99.426	185340.80	0.1896	P	4.0
6	☐	200.000	200.299	365706.81	0.3819	P	1.4

y = 0.0019 * x + 1.3988E-004
R = 1.0000
DL = 0.01771
BEC = 0.07339

Weight: <None>
Min Conc: <None>

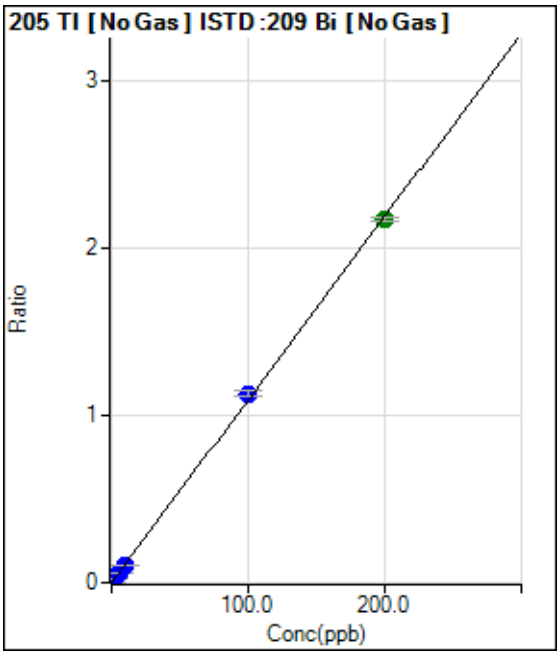
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0001	P	48.6
2	☐	2.000	1.887	6605.21	0.0086	P	7.4
3	☐	5.000	4.879	16888.34	0.0221	P	4.5
4	☐	10.000	9.720	34227.18	0.0439	P	1.7
5	☐	100.000	105.064	356094.73	0.4744	P	2.5
6	☐	200.000	197.486	664201.21	0.8917	P	1.8

y = 0.0045 * x + 5.1959E-005
R = 0.9995
DL = 0.01679
BEC = 0.01151

Weight: <None>
Min Conc: <None>

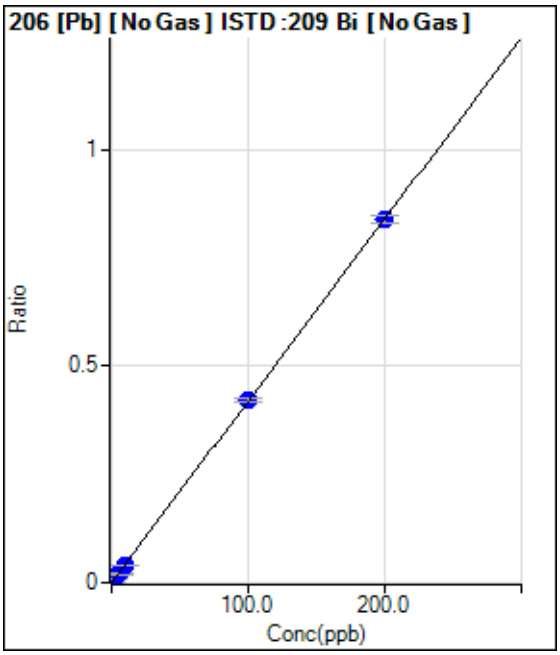


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	76.7
2	☐	2.000	1.945	16441.11	0.0213	P	3.6
3	☐	5.000	4.831	40445.98	0.0529	P	2.0
4	☐	10.000	9.725	82867.72	0.1064	P	1.4
5	☐	100.000	103.476	849097.15	1.1313	P	2.2
6	☐	200.000	198.281	1615020.24	2.1676	A	1.0

y = 0.0109 * x + 6.9493E-005
R = 0.9998
DL = 0.01462
BEC = 0.006357

Weight: <None>
Min Conc: <None>

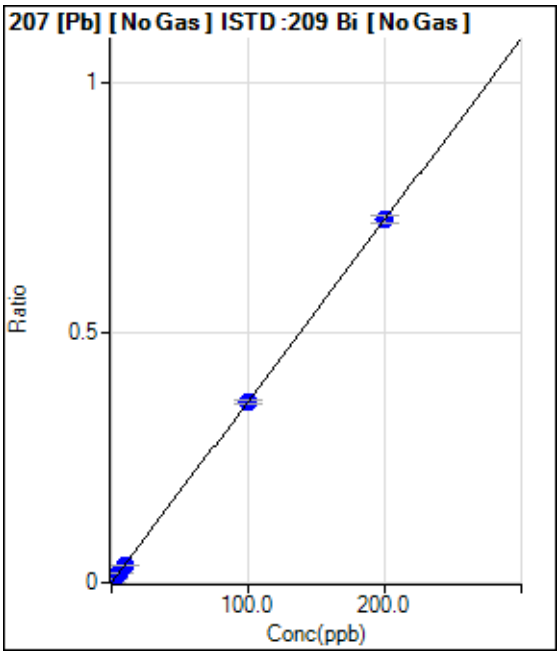
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0001	P	47.2
2	☐	2.000	1.938	6348.42	0.0082	P	4.7
3	☐	5.000	4.797	15479.86	0.0202	P	2.4
4	☐	10.000	9.676	31710.73	0.0407	P	3.5
5	☐	100.000	100.644	317217.98	0.4226	P	2.1
6	☐	200.000	199.700	624506.09	0.8385	P	2.1

y = 0.0042 * x + 9.5888E-005
R = 1.0000
DL = 0.03232
BEC = 0.02284

Weight: <None>
Min Conc: <None>

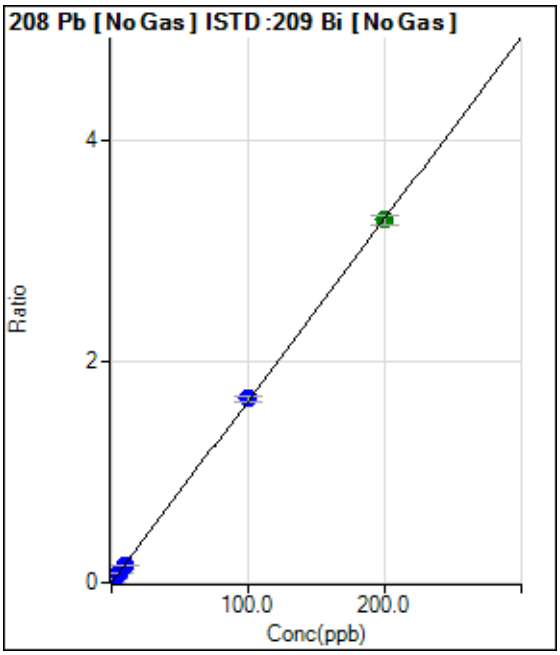


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	52.6
2	☐	2.000	1.954	5524.67	0.0072	P	1.1
3	☐	5.000	4.853	13520.93	0.0177	P	4.1
4	☐	10.000	9.684	27417.25	0.0352	P	5.1
5	☐	100.000	99.969	272294.37	0.3628	P	2.4
6	☐	200.000	200.035	540625.40	0.7258	P	2.1

y = 0.0036 * x + 7.3643E-005
R = 1.0000
DL = 0.03202
BEC = 0.0203

Weight: <None>
Min Conc: <None>

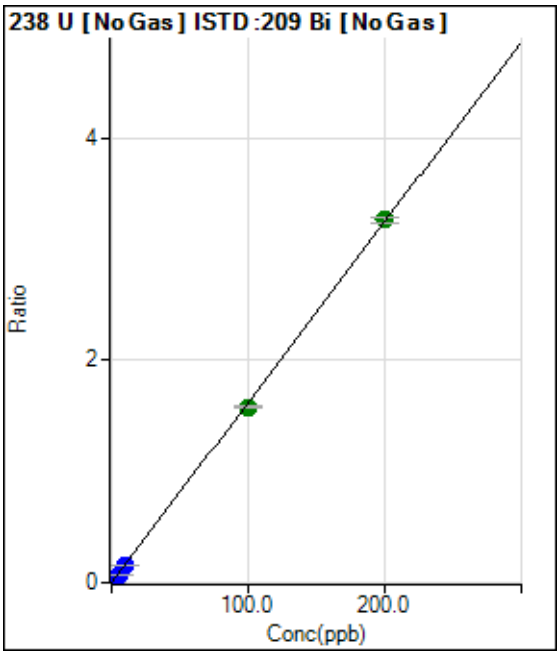
Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	280.00	0.0004	P	23.5
2	☐	2.000	1.950	25030.30	0.0325	P	3.0
3	☐	5.000	4.825	61012.27	0.0798	P	1.4
4	☐	10.000	9.857	126640.80	0.1626	P	1.9
5	☐	100.000	101.029	1248113.41	1.6629	P	2.6
6	☐	200.000	199.498	2445675.06	3.2834	A	2.3

y = 0.0165 * x + 3.6557E-004
R = 1.0000
DL = 0.01568
BEC = 0.02221

Weight: <None>
Min Conc: <None>

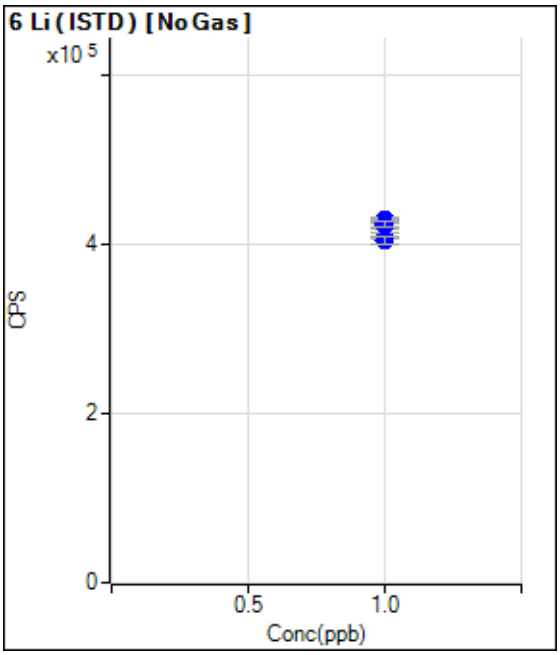


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	91.6
2	☐	2.000	1.855	23175.57	0.0301	P	3.4
3	☐	5.000	4.664	57783.27	0.0755	P	1.0
4	☐	10.000	9.279	117067.44	0.1503	P	1.3
5	☐	100.000	97.460	1184696.78	1.5782	A	1.1
6	☐	200.000	201.316	2428181.68	3.2600	A	1.5

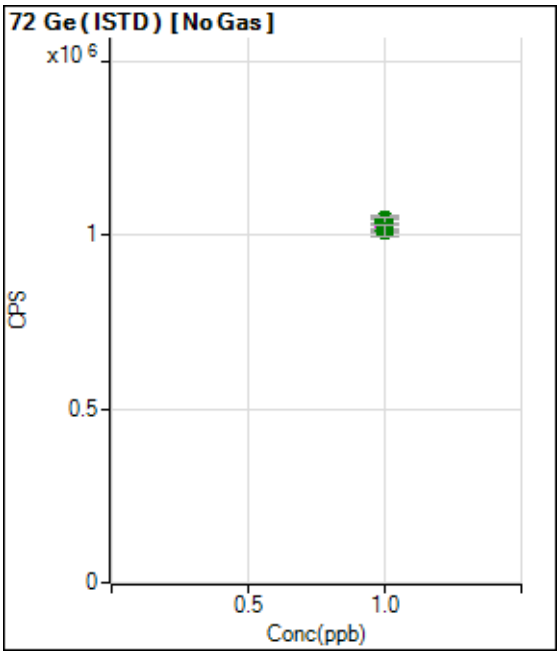
y = 0.0162 * x + 2.1489E-005
R = 0.9999
DL = 0.003647
BEC = 0.001327

Weight: <None>
Min Conc: <None>

Calibration for 190_ICV.d

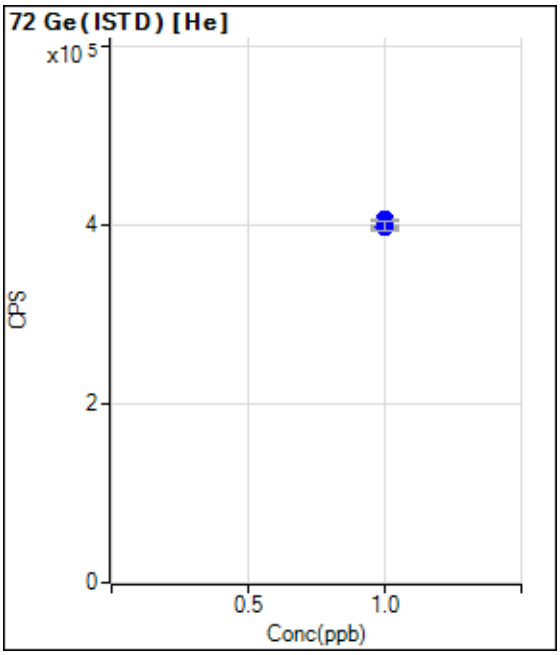


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		425695.49		P	2.9
2	☐	1.000		429328.05		P	1.5
3	☐	1.000		426375.43		P	2.2
4	☐	1.000		423775.50		P	1.5
5	☐	1.000		410093.89		P	1.7
6	☐	1.000		404444.32		P	2.2

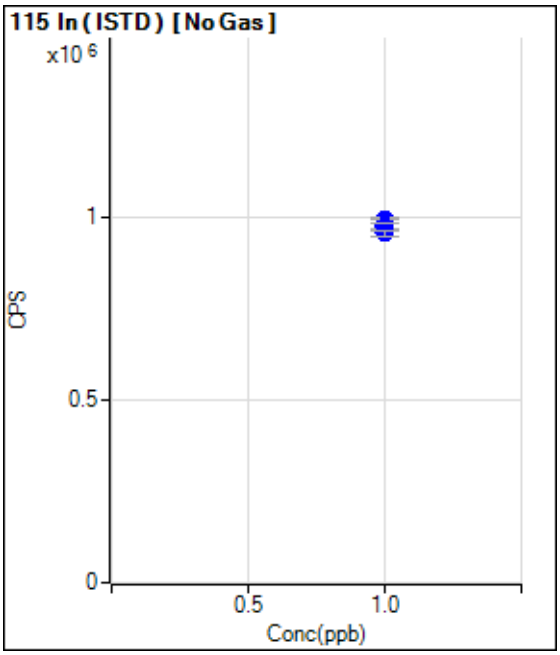


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1025237.54		M	2.0
2	☐	1.000		1039433.76		A	0.9
3	☐	1.000		1044300.24		A	2.6
4	☐	1.000		1034710.14		A	3.5
5	☐	1.000		1011649.25		M	0.7
6	☐	1.000		1012674.96		A	3.2

Calibration for 190_ICV.d

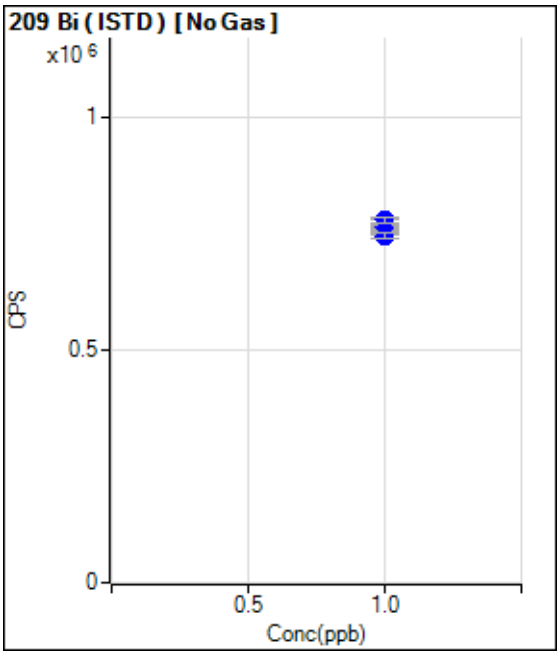


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		397960.16		P	1.1
2	☐	1.000		405206.67		P	0.2
3	☐	1.000		397506.92		P	0.5
4	☐	1.000		399067.91		P	0.7
5	☐	1.000		398802.79		P	0.4
6	☐	1.000		398171.18		P	2.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		976955.43		P	1.9
2	☐	1.000		995143.70		P	1.9
3	☐	1.000		978023.61		P	1.2
4	☐	1.000		981335.59		P	2.9
5	☐	1.000		977880.14		P	2.0
6	☐	1.000		957793.39		P	1.9

Calibration for 190_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		764762.70		P	2.4
2	☐	1.000		771228.48		P	2.3
3	☐	1.000		764977.23		P	1.2
4	☐	1.000		779069.21		P	1.4
5	☐	1.000		750718.61		P	1.2
6	☐	1.000		744970.25		P	1.8

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	191LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:24:46-06:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	183CALB.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	1.871	1.871	1.87	38427	0.00	2	
Be	9	1	No Gas	1.784	1.784	0.16	3979	0.04	2	
V	51	2	He	1.924	1.924	1.17	8593	0.02	2	
Cr	52	2	He	1.918	1.918	1.06	19661	0.01	2	
Fe	56	2	He	199.194	199.194	1.42	730921	0.03	200	
Se	78	2	He	2.105	2.105	16.94	319	0.66	2	
As	75	2	He	1.916	1.916	1.10	1717	0.11	2	
Ca	44	2	He	194.564	194.564	4.37	6682	2.91	200	
Na	23	2	He	202.469	202.469	2.71	274103	0.07	200	
Mg	24	2	He	205.079	205.079	0.99	92463	0.22	200	
K	39	2	He	206.913	206.913	3.52	270787	0.08	200	
Mn	55	2	He	1.744	1.744	1.75	6852	0.03	2	
Co	59	2	He	1.940	1.940	4.51	10384	0.02	2	
Ni	60	2	He	2.000	2.000	5.80	2650	0.08	2	
Cu	63	2	He	1.975	1.975	16.40	41825	0.00	2	
Zn	66	2	He	1.975	1.975	1.20	2294	0.09	2	
Al	27	2	He	2.505	2.505	27.63	1310	0.19	2	
B	11	1	No Gas	15.680	15.680	3.33	29085	0.05	10	NewName Main CR1 Failed
Al	27	1	No Gas	2.151	2.151	3.71	27181	0.01	2	
Si	28	1	No Gas	13.210	13.210	2.13	278190	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	1.910	1.910	2.67	12239	0.02	2	
Cd	111	1	No Gas	1.763	1.763	11.87	2404	0.07	2	
Sr	88	1	No Gas	1.860	1.860	3.34	24236	0.01	2	
Mo	95	1	No Gas	1.904	1.904	3.85	4941	0.04	2	
Sn	118	1	No Gas	1.988	1.988	2.55	8380	0.02	2	
Sb	121	1	No Gas	1.891	1.891	1.10	11595	0.02	2	
Ba	137	1	No Gas	2.247	2.247	4.67	4434	0.05	2	
Tl	205	1	No Gas	2.166	2.166	5.76	18387	0.01	2	
Tl	203	1	No Gas	2.233	2.233	3.40	7849	0.03	2	
Pb	208	1	No Gas	1.922	1.922	2.52	24780	0.01	2	
U	238	1	No Gas	1.806	1.806	1.80	22668	0.01	2	
Ca	43	2	He	228.494	228.494	4.25	393	58.09	200	
Sb	121	2	He	2.019	2.019	1.30	7716	0.03	2	
Ti	47	2	He	1.762	1.762	22.92	273	0.64	200	
Cu	63	1	No Gas	1.409	1.409	27.81	85683	0.00	2	
Se	82	1	No Gas	1.740	1.740	27.93	101	1.72	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	432710	0.28	425695	101.65	70	120	
Ge	72	2	He	401977	0.39	397960	101.01	70	120	
Ge	72	1	No Gas	1046060	0.91	1025238	102.03	70	120	
In	115	1	No Gas	1002565	0.91	976955	102.62	70	120	
Bi	209	1	No Gas	774576	0.61	764763	101.28	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	192LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:26:45-06:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	183CALB.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	4.701	4.701	1.47	54808	0.01	5	
Be	9	1	No Gas	4.613	4.613	5.05	10077	0.05	5	
V	51	2	He	4.744	4.744	1.66	18626	0.03	5	
Cr	52	2	He	4.868	4.868	3.79	30992	0.02	5	
Fe	56	2	He	503.688	503.688	1.04	1797542	0.03	500	
Se	78	2	He	4.487	4.487	3.51	492	0.91	5	
As	75	2	He	4.937	4.937	4.68	4087	0.12	5	
Ca	44	2	He	481.048	481.048	0.51	14551	3.31	500	
Na	23	2	He	503.362	503.362	0.57	495264	0.10	500	
Mg	24	2	He	509.396	509.396	1.22	226734	0.22	500	
K	39	2	He	501.724	501.724	3.11	442915	0.11	500	
Mn	55	2	He	4.749	4.749	5.10	15976	0.03	5	
Co	59	2	He	4.771	4.771	3.56	25164	0.02	5	
Ni	60	2	He	4.999	4.999	1.34	6395	0.08	5	
Cu	63	2	He	5.348	5.348	7.97	52341	0.01	5	
Zn	66	2	He	4.912	4.912	3.39	4611	0.11	5	
Al	27	2	He	4.774	4.774	2.60	1947	0.25	5	
B	11	1	No Gas	25.716	25.716	0.84	42860	0.06	25	
Al	27	1	No Gas	4.961	4.961	6.22	46194	0.01	5	
Si	28	1	No Gas	27.167	27.167	6.90	327442	0.01	25	
Ag	107	1	No Gas	4.911	4.911	3.44	31077	0.02	5	
Cd	111	1	No Gas	4.665	4.665	2.95	6292	0.07	5	
Sr	88	1	No Gas	4.686	4.686	1.23	59663	0.01	5	
Mo	95	1	No Gas	4.765	4.765	0.28	12189	0.04	5	
Sn	118	1	No Gas	4.622	4.622	4.19	18006	0.03	5	
Sb	121	1	No Gas	4.801	4.801	0.87	28575	0.02	5	
Ba	137	1	No Gas	4.885	4.885	4.60	9370	0.05	5	
Tl	205	1	No Gas	4.716	4.716	1.32	40182	0.01	5	
Tl	203	1	No Gas	4.643	4.643	2.27	16358	0.03	5	
Pb	208	1	No Gas	4.762	4.762	1.15	61286	0.01	5	
U	238	1	No Gas	4.455	4.455	2.95	56176	0.01	5	
Ca	43	2	He	472.206	472.206	6.38	790	59.77	500	
Sb	121	2	He	4.854	4.854	3.44	18233	0.03	5	
Ti	47	2	He	5.038	5.038	24.97	760	0.66	5	
Cu	63	1	No Gas	4.768	4.768	12.08	101980	0.00	5	
Se	82	1	No Gas	3.984	3.984	33.67	344	1.16	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	425105	0.45	425695	99.86	70	120	
Ge	72	2	He	397842	0.91	397960	99.97	70	120	
Ge	72	1	No Gas	1025039	1.28	1025238	99.98	70	120	

Sample Report

In	115	1	No Gas	991846	1.64	976955	101.52	70	120	
Bi	209	1	No Gas	778423	0.43	764763	101.79	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	193_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:28:44-06:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	0.048	65.3	26767	0.6	0.5	
Be	9	1	No Gas	0.002	419.3	23	89.2	0.5	
V	51	2	He	-0.040	-47.7	1483	5.4	2.5	
Cr	52	2	He	0.240	36.9	13140	1.9	2.5	
Fe	56	2	He	1.058	12.2	24824	2.5	100	
Se	78	2	He	0.186	199.8	177	14.3	1	
As	75	2	He	0.007	70.1	193	3.4	2.5	
Ca	44	2	He	4.720	149.2	1380	15.2	100	
Na	23	2	He	-7.691	-32.1	116990	0.3	100	
Mg	24	2	He	0.115	120.8	443	15.0	100	
K	39	2	He	2.890	61.8	149685	1.2	100	
Mn	55	2	He	-0.123	-24.1	1087	9.9	2.5	
Co	59	2	He	0.013	49.9	143	22.4	2.5	
Ni	60	2	He	0.212	8.4	380	7.0	2.5	
Cu	63	2	He	0.336	119.2	36743	2.2	1	
Zn	66	2	He	-0.103	-125.0	627	17.6	2.5	
Al	27	2	He	0.639	39.7	777	9.8	5	
B	11	1	No Gas	2.016	11.4	9126	3.0	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	0.817	6.4	17445	1.5	5	
Si	28	1	No Gas	-5.583	-20.8	199889	1.1	10	
Ag	107	1	No Gas	-0.001	-603.5	27	86.6	2.5	
Cd	111	1	No Gas	0.005	261.1	10	173.2	1	
Sr	88	1	No Gas	0.010	41.7	607	8.5	2.5	
Mo	95	1	No Gas	0.013	30.0	60	16.7	2.5	
Sn	118	1	No Gas	-0.076	-18.2	670	7.8	5	
Sb	121	1	No Gas	0.021	67.4	297	26.2	2.5	
Ba	137	1	No Gas	-0.014	-198.8	113	45.3	2.5	
Tl	205	1	No Gas	0.044	36.6	423	33.1	1	
Tl	203	1	No Gas	0.037	3.6	167	3.5	1	
Pb	208	1	No Gas	0.004	74.0	337	13.4	2.5	
U	238	1	No Gas	0.001	205.9	27	78.1	2.5	
Ca	43	2	He	11.863	119.1	33	69.3	100	
Sb	121	2	He	0.038	31.9	233	21.1	2.5	
Ti	47	2	He	-0.001	-5968.8	7	86.6	2.5	
Se	82	1	No Gas	0.550	114.7	-32	-216.4	1	

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	425265	0.83	425695	99.90	70	120	
Ge	72	2	He	405305	1.46	397960	101.85	70	120	
Ge	72	1	No Gas	1031511	2.00	1025238	100.61	70	120	
In	115	1	No Gas	998157	0.47	976955	102.17	70	120	
Bi	209	1	No Gas	767573	1.21	764763	100.37	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	194ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:30:48-06:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	0.119	158.2	26473	3.4	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.002	414.1	22	70.5	0	ICSA Main CR1 Failed
V	51	2	He	0.178	9.4	2282	2.1	0	ICSA Main CR1 Failed
Cr	52	2	He	1.471	11.0	18052	3.0	0	ICSA Main CR1 Failed
Fe	56	2	He	93250.503	0.8	335362035	0.2	0	
Se	78	2	He	0.340	116.6	189	16.0	0	ICSA Main CR1 Failed
As	75	2	He	0.445	13.3	547	8.5	0	ICSA Main CR1 Failed
Ca	44	2	He	95023.315	2.2	2684729	1.7	0	
Na	23	2	He	93963.424	0.4	71421511	0.7	0	
Mg	24	2	He	95194.257	1.9	43119409	1.8	0	
K	39	2	He	94805.285	2.1	57495989	1.8	0	
Mn	55	2	He	1.714	1.8	6818	1.3	0	ICSA Main CR1 Failed
Co	59	2	He	1.038	3.1	5638	2.5	0	ICSA Main CR1 Failed
Ni	60	2	He	1.184	4.9	1627	4.0	0	ICSA Main CR1 Failed
Cu	63	2	He	1.283	13.0	39909	1.0	0	ICSA Main CR1 Failed
Zn	66	2	He	1.478	12.7	1910	7.9	0	ICSA Main CR1 Failed
Al	27	2	He	88451.715	0.5	25832020	0.8	0	
B	11	1	No Gas	4.207	3.9	11927	2.8	0	
Al	27	1	No Gas	89574.888	1.8	630825204	2.0	0	
Si	28	1	No Gas	63.081	10.1	473723	5.3	0	
Ag	107	1	No Gas	0.051	9.7	333	9.2	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.959	2.3	1227	2.9	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	1.467	4.5	17986	3.2	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1884.307	3.5	4552883	2.3	0	
Sn	118	1	No Gas	0.068	18.5	1133	2.8	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.120	12.1	893	10.2	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	1.118	14.4	2134	14.1	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.016	26.4	180	19.2	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.014	65.6	83	36.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.720	0.4	8841	1.1	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.012	21.1	160	18.8	0	ICSA Main CR1 Failed
Ca	43	2	He	93290.596	1.7	156460	1.2	0	
Sb	121	2	He	0.120	13.1	547	10.4	0	ICSA Main CR1 Failed
Ti	47	2	He	1969.123	1.9	300635	1.3	0	
Se	82	1	No Gas	0.517	35.9	-36	-58.3	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	414051	0.84	425695	97.26	70	120	
Ge	72	2	He	405540	0.59	397960	101.90	70	120	
Ge	72	1	No Gas	1035955	1.11	1025238	101.05	70	120	
In	115	1	No Gas	939106	1.17	976955	96.13	70	120	
Bi	209	1	No Gas	724116	0.95	764763	94.69	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	195ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T17:32:49-06:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	99.735	1.531	622200	0.75	100	99.7	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	93.819	2.039	202823	1.19	100	93.8	80	120	
V	51	2	He	100.150	1.646	374818	0.30	100	100.2	80	120	
Cr	52	2	He	98.643	0.896	412762	0.87	100	98.6	80	120	
Fe	56	2	He	105454.448	0.997	386293274	0.95	100	105454.4	80	120	ICSB Main CR1 Failed
Se	78	2	He	100.614	1.198	7884	0.94	100	100.6	80	120	
As	75	2	He	101.775	1.369	83737	1.69	100	101.8	80	120	
Ca	44	2	He	109149.760	1.882	3140763	0.59	100	109149.8	80	120	ICSB Main CR1 Failed
Na	23	2	He	109549.288	1.288	84794839	1.65	100	109549.3	80	120	ICSB Main CR1 Failed
Mg	24	2	He	106752.531	0.786	49254231	1.23	100	106752.5	80	120	
K	39	2	He	110168.208	2.267	68020616	0.68	100	110168.2	80	120	ICSB Main CR1 Failed
Mn	55	2	He	98.742	2.111	315268	0.98	100	98.7	80	120	
Co	59	2	He	95.121	3.199	519316	1.47	100	95.1	80	120	
Ni	60	2	He	96.500	3.438	126126	2.07	100	96.5	80	120	
Cu	63	2	He	94.785	0.744	355670	1.61	100	94.8	80	120	
Zn	66	2	He	98.474	1.581	82172	1.63	100	98.5	80	120	
Al	27	2	He	92433.391	1.004	27497800	1.89	100	92433.4	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	487.461	2.342	693914	1.37	100	487.5	80	120	
Al	27	1	No Gas	95146.153	0.691	676589297	1.86	100	95146.2	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	575.023	0.805	2533259	2.12	100	575.0	80	120	
Ag	107	1	No Gas	98.435	2.987	604959	1.90	100	98.4	80	120	
Cd	111	1	No Gas	99.589	2.403	130422	1.39	100	99.6	80	120	
Sr	88	1	No Gas	103.347	1.951	1269331	0.79	100	103.3	80	120	
Mo	95	1	No Gas	2030.384	3.023	5036423	1.86	100	2030.4	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	100.729	2.512	362430	1.82	100	100.7	80	120	
Sb	121	1	No Gas	98.641	1.243	595637	1.82	100	98.6	80	120	
Ba	137	1	No Gas	103.733	2.148	190703	1.00	100	103.7	80	120	
Tl	205	1	No Gas	96.225	1.865	780833	1.73	100	96.2	80	120	
Tl	203	1	No Gas	96.848	0.975	324611	0.47	100	96.8	80	120	
Pb	208	1	No Gas	101.384	2.519	1238692	2.70	100	101.4	80	120	
U	238	1	No Gas	100.567	1.127	1208755	0.62	100	100.6	80	120	
Ca	43	2	He	108458.163	2.563	185245	0.83	100	108458.2	80	120	ICSB Main CR1 Failed
Sb	121	2	He	98.883	1.937	383903	0.23	100	98.9	80	120	
Ti	47	2	He	2170.547	1.831	337524	0.55	100	2170.5	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.288	1.168	605943	2.85	100	96.3	80	120	
Se	82	1	No Gas	99.401	0.826	11009	2.87	100	99.4	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	421410	1.10	425695	98.99	70	120	
Ge	72	2	He	413102	1.71	397960	103.80	70	120	
Ge	72	1	No Gas	1046107	2.27	1025238	102.04	70	120	
In	115	1	No Gas	964077	1.28	976955	98.68	70	120	
Bi	209	1	No Gas	742264	0.51	764763	97.06	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	228_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T18:40:38-06:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	102.866	1.333	547999	1.19	100	102.9	90	110	
Be	9	1	No Gas	102.604	2.241	189664	2.21	100	102.6	90	110	
V	51	2	He	99.511	2.420	333736	0.54	100	99.5	90	110	
Cr	52	2	He	100.538	3.581	376675	1.53	100	100.5	90	110	
Fe	56	2	He	10009.365	3.287	32866781	1.47	10000	100.1	90	110	
Se	78	2	He	100.932	1.664	7087	0.41	100	100.9	90	110	
As	75	2	He	103.956	0.720	76655	2.14	100	104.0	90	110	
Ca	44	2	He	9850.567	1.292	255089	1.56	10000	98.5	90	110	
Na	23	2	He	9870.273	2.080	6947768	0.85	10000	98.7	90	110	
Mg	24	2	He	9815.327	4.684	4056715	2.77	10000	98.2	90	110	
K	39	2	He	9803.976	1.533	5548437	0.92	10000	98.0	90	110	
Mn	55	2	He	98.965	2.816	283136	0.86	100	99.0	90	110	
Co	59	2	He	97.703	3.901	477984	2.07	100	97.7	90	110	
Ni	60	2	He	101.298	3.356	118639	1.50	100	101.3	90	110	
Cu	63	2	He	98.263	2.735	329159	0.61	100	98.3	90	110	
Zn	66	2	He	100.222	1.857	74937	1.92	100	100.2	90	110	
Al	27	2	He	103.911	1.438	28239	1.44	100	103.9	90	110	
B	11	1	No Gas	517.494	1.165	629586	1.11	500	103.5	90	110	
Al	27	1	No Gas	103.134	0.758	678630	0.12	100	103.1	90	110	
Si	28	1	No Gas	733.572	1.951	2886089	1.37	5000	14.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.272	1.254	601228	1.46	100	103.3	90	110	
Cd	111	1	No Gas	99.879	1.188	123900	1.32	100	99.9	90	110	
Sr	88	1	No Gas	103.092	2.886	1199521	3.62	100	103.1	90	110	
Mo	95	1	No Gas	100.128	2.042	235303	2.16	100	100.1	90	110	
Sn	118	1	No Gas	103.117	1.559	351401	1.37	100	103.1	90	110	
Sb	121	1	No Gas	101.663	1.228	559018	1.09	100	101.7	90	110	
Ba	137	1	No Gas	103.742	0.848	180665	1.77	100	103.7	90	110	
Tl	205	1	No Gas	99.167	2.381	793475	1.79	100	99.2	90	110	
Tl	203	1	No Gas	99.880	1.114	330117	0.25	100	99.9	90	110	
Pb	208	1	No Gas	101.340	0.898	1220927	0.96	100	101.3	90	110	
U	238	1	No Gas	99.883	1.615	1184049	2.51	100	99.9	90	110	
Ca	43	2	He	9612.987	3.020	14732	3.90	10000	96.1	90	110	
Sb	121	2	He	105.228	2.194	366107	0.70	100	105.2	90	110	
Ti	47	2	He	100.293	1.124	13984	1.29	100	100.3	90	110	
Cu	63	1	No Gas	95.709	1.887	548813	1.60	100	95.7	90	110	
Se	82	1	No Gas	97.066	3.217	9785	2.70	100	97.1	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	360287	0.33	425695	84.63	70	120	
Ge	72	2	He	370225	1.99	397960	93.03	70	120	
Ge	72	1	No Gas	952547	0.81	1025238	92.91	70	120	
In	115	1	No Gas	913158	2.08	976955	93.47	70	120	
Bi	209	1	No Gas	731971	0.92	764763	95.71	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	229_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T18:42:36-06:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	-0.029	-78.8	22525	1.2	0.5	
Be	9	1	No Gas	0.020	19.2	53	14.3	0.5	
V	51	2	He	0.046	15.7	1607	1.8	2.5	
Cr	52	2	He	0.961	12.9	14304	2.8	2.5	
Fe	56	2	He	1.665	8.7	24122	1.9	100	
Se	78	2	He	0.157	169.5	157	10.9	2	
As	75	2	He	-0.006	-497.2	163	12.7	2.5	
Ca	44	2	He	-0.620	-638.4	1097	8.5	100	
Na	23	2	He	5.874	43.4	113703	1.0	100	
Mg	24	2	He	0.546	28.1	570	11.5	100	
K	39	2	He	-2.195	-97.8	130970	1.2	100	
Mn	55	2	He	-0.032	-169.4	1223	11.9	2.5	
Co	59	2	He	0.017	30.3	150	17.6	2.5	
Ni	60	2	He	0.317	6.4	460	4.3	2.5	
Cu	63	2	He	0.697	13.7	33899	1.1	2	
Zn	66	2	He	0.822	1.2	1230	1.4	2.5	
Al	27	2	He	0.088	243.1	550	10.1	5	
B	11	1	No Gas	4.405	8.0	10727	3.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.095	84.6	11361	3.4	5	
Si	28	1	No Gas	-8.683	-8.7	172170	0.5	10	
Ag	107	1	No Gas	0.008	33.3	73	20.8	2.5	
Cd	111	1	No Gas	-0.002	0.0	0	#DIV/0!	1	
Sr	88	1	No Gas	-0.002	-177.8	423	8.3	2.5	
Mo	95	1	No Gas	0.086	17.9	230	15.7	2.5	
Sn	118	1	No Gas	0.004	538.3	900	7.8	5	
Sb	121	1	No Gas	0.047	37.8	420	24.9	2.5	
Ba	137	1	No Gas	-0.043	-37.7	53	54.1	2.5	
Tl	205	1	No Gas	0.424	21.9	3484	22.0	1	
Tl	203	1	No Gas	0.374	18.4	1290	18.3	1	
Pb	208	1	No Gas	0.017	22.2	473	9.5	2.5	
U	238	1	No Gas	0.018	18.2	233	17.8	2.5	
Ca	43	2	He	14.068	71.0	33	45.8	100	
Sb	121	2	He	0.064	10.2	297	7.8	2.5	
Ti	47	2	He	0.053	208.4	13	114.6	2.5	
Cu	63	1	No Gas	0.365	40.9	72332	1.7	2.5	
Se	82	1	No Gas	0.151	565.1	-69	-124.8	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	364146	1.06	425695	85.54	70	120	
Ge	72	2	He	362054	0.83	397960	90.98	70	120	
Ge	72	1	No Gas	946447	1.39	1025238	92.31	70	120	
In	115	1	No Gas	928637	0.42	976955	95.05	70	120	
Bi	209	1	No Gas	740334	1.22	764763	96.81	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	240_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T19:04:31-06:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	103.433	2.039	610049	1.93	100	103.4	90	110	
Be	9	1	No Gas	102.015	2.384	208797	1.15	100	102.0	90	110	
V	51	2	He	100.318	0.325	355061	0.49	100	100.3	90	110	
Cr	52	2	He	100.861	1.130	398816	0.41	100	100.9	90	110	
Fe	56	2	He	10221.666	1.783	35424024	1.33	10000	102.2	90	110	
Se	78	2	He	100.269	1.678	7430	1.64	100	100.3	90	110	
As	75	2	He	104.514	0.271	81308	0.61	100	104.5	90	110	
Ca	44	2	He	10113.556	0.603	276310	0.61	10000	101.1	90	110	
Na	23	2	He	10204.184	1.286	7576384	1.76	10000	102.0	90	110	
Mg	24	2	He	10206.001	2.256	4453440	2.74	10000	102.1	90	110	
K	39	2	He	9941.537	1.061	5935241	1.51	10000	99.4	90	110	
Mn	55	2	He	100.358	0.895	303029	1.45	100	100.4	90	110	
Co	59	2	He	99.297	1.758	512754	1.43	100	99.3	90	110	
Ni	60	2	He	101.249	3.316	125149	2.73	100	101.2	90	110	
Cu	63	2	He	99.815	0.826	352325	0.47	100	99.8	90	110	
Zn	66	2	He	102.406	3.320	80767	2.59	100	102.4	90	110	
Al	27	2	He	105.819	1.943	30337	2.59	100	105.8	90	110	
B	11	1	No Gas	532.448	2.376	717130	1.98	500	106.5	90	110	
Al	27	1	No Gas	110.102	2.417	769235	2.33	100	110.1	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	778.602	3.300	3242480	3.02	5000	15.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.828	0.278	625456	2.25	100	102.8	90	110	
Cd	111	1	No Gas	101.108	1.177	131058	3.12	100	101.1	90	110	
Sr	88	1	No Gas	104.837	1.679	1274036	1.34	100	104.8	90	110	
Mo	95	1	No Gas	101.631	0.995	249509	1.78	100	101.6	90	110	
Sn	118	1	No Gas	102.529	0.690	365031	1.63	100	102.5	90	110	
Sb	121	1	No Gas	101.885	2.585	595438	2.48	100	101.9	90	110	
Ba	137	1	No Gas	103.450	0.869	188188	1.19	100	103.4	90	110	
Tl	205	1	No Gas	99.702	1.073	829124	1.00	100	99.7	90	110	
Tl	203	1	No Gas	101.041	0.544	347073	0.52	100	101.0	90	110	
Pb	208	1	No Gas	102.350	1.991	1281446	1.82	100	102.4	90	110	
U	238	1	No Gas	99.736	0.262	1228539	0.14	100	99.7	90	110	
Ca	43	2	He	10105.606	3.249	16340	4.03	10000	101.1	90	110	
Sb	121	2	He	103.869	2.040	381360	1.73	100	103.9	90	110	
Ti	47	2	He	104.635	4.751	15396	5.09	100	104.6	90	110	
Cu	63	1	No Gas	96.985	1.706	590067	1.40	100	97.0	90	110	
Se	82	1	No Gas	99.114	2.450	10623	2.53	100	99.1	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	399003	1.48	425695	93.73	70	120	
Ge	72	2	He	390610	0.81	397960	98.15	70	120	
Ge	72	1	No Gas	1012384	0.19	1025238	98.75	70	120	
In	115	1	No Gas	953903	1.97	976955	97.64	70	120	
Bi	209	1	No Gas	760669	0.17	764763	99.46	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	241_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T19:06:29-06:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	-0.041	-109.2	24909	1.8	0.5	
Be	9	1	No Gas	0.030	41.2	80	33.1	0.5	
V	51	2	He	-0.005	-72.1	1540	1.5	2.5	
Cr	52	2	He	-0.013	-439.1	11595	1.2	2.5	
Fe	56	2	He	0.245	62.9	20927	2.4	100	
Se	78	2	He	-0.163	-174.0	145	14.1	2	
As	75	2	He	-0.014	-82.5	169	4.1	2.5	
Ca	44	2	He	-4.340	-36.4	1073	3.8	100	
Na	23	2	He	2.702	86.0	119347	0.4	100	
Mg	24	2	He	0.439	14.1	563	3.7	100	
K	39	2	He	-5.373	-70.4	138271	0.5	100	
Mn	55	2	He	-0.106	-29.7	1087	7.9	2.5	
Co	59	2	He	0.008	11.2	113	5.1	2.5	
Ni	60	2	He	0.046	66.5	160	22.5	2.5	
Cu	63	2	He	-0.995	-4.6	30925	1.5	2	
Zn	66	2	He	-0.273	-54.8	467	24.8	2.5	
Al	27	2	He	-0.493	-24.3	427	8.9	5	
B	11	1	No Gas	8.062	2.0	16840	2.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.312	-9.8	9187	3.0	5	
Si	28	1	No Gas	-6.263	-6.0	190142	0.4	10	
Ag	107	1	No Gas	0.009	27.4	87	17.6	2.5	
Cd	111	1	No Gas	0.010	43.2	17	34.6	1	
Sr	88	1	No Gas	-0.001	-1274.2	453	25.6	2.5	
Mo	95	1	No Gas	0.076	24.1	217	20.8	2.5	
Sn	118	1	No Gas	-0.068	-42.9	680	15.4	5	
Sb	121	1	No Gas	0.069	9.4	567	5.7	2.5	
Ba	137	1	No Gas	-0.048	-6.3	47	12.4	2.5	
Tl	205	1	No Gas	0.421	24.4	3577	23.9	1	
Tl	203	1	No Gas	0.397	18.6	1413	18.0	1	
Pb	208	1	No Gas	0.008	53.1	377	13.4	2.5	
U	238	1	No Gas	0.013	25.7	177	23.6	2.5	
Ca	43	2	He	4.344	3.1	20	0.0	100	
Sb	121	2	He	0.078	21.1	367	16.7	2.5	
Ti	47	2	He	0.094	146.5	20	100.0	2.5	
Cu	63	1	No Gas	-1.586	-21.1	65829	2.8	2.5	
Se	82	1	No Gas	0.380	119.0	-48	-98.7	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	403726	1.01	425695	94.84	70	120	
Ge	72	2	He	387355	1.09	397960	97.34	70	120	
Ge	72	1	No Gas	994380	1.01	1025238	96.99	70	120	
In	115	1	No Gas	967584	0.50	976955	99.04	70	120	
Bi	209	1	No Gas	766116	0.27	764763	100.18	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	252_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T19:29:48-06:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	102.647	1.717	617614	1.37	100	102.6	90	110	
Be	9	1	No Gas	100.896	0.996	210632	0.56	100	100.9	90	110	
V	51	2	He	100.555	2.171	361443	0.59	100	100.6	90	110	
Cr	52	2	He	100.623	1.476	404181	1.51	100	100.6	90	110	
Fe	56	2	He	10108.505	2.089	35580212	0.64	10000	101.1	90	110	
Se	78	2	He	100.986	2.229	7599	0.92	100	101.0	90	110	
As	75	2	He	104.070	2.023	82227	0.74	100	104.1	90	110	
Ca	44	2	He	10325.812	3.081	286440	0.95	10000	103.3	90	110	
Na	23	2	He	10227.525	2.860	7711313	1.77	10000	102.3	90	110	
Mg	24	2	He	10305.458	3.813	4565551	1.90	10000	103.1	90	110	
K	39	2	He	10167.022	4.200	6159256	2.09	10000	101.7	90	110	
Mn	55	2	He	100.439	3.144	307938	0.93	100	100.4	90	110	
Co	59	2	He	98.274	3.135	515315	0.73	100	98.3	90	110	
Ni	60	2	He	100.255	2.363	125873	1.58	100	100.3	90	110	
Cu	63	2	He	103.310	3.437	369074	1.03	100	103.3	90	110	
Zn	66	2	He	100.961	2.566	80888	1.17	100	101.0	90	110	
Al	27	2	He	109.710	3.343	31914	1.58	100	109.7	90	110	
B	11	1	No Gas	518.316	2.684	712092	2.07	500	103.7	90	110	
Al	27	1	No Gas	111.237	2.465	779738	2.18	100	111.2	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	784.128	3.109	3275657	3.32	5000	15.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.979	1.056	636102	1.75	100	103.0	90	110	
Cd	111	1	No Gas	100.045	1.365	131685	2.20	100	100.0	90	110	
Sr	88	1	No Gas	104.704	0.132	1292388	0.97	100	104.7	90	110	
Mo	95	1	No Gas	100.833	0.550	251408	0.98	100	100.8	90	110	
Sn	118	1	No Gas	103.491	0.688	374178	0.16	100	103.5	90	110	
Sb	121	1	No Gas	102.131	0.725	598965	0.49	100	102.1	90	110	
Ba	137	1	No Gas	103.092	2.352	190466	2.36	100	103.1	90	110	
Tl	205	1	No Gas	99.577	0.284	828351	0.96	100	99.6	90	110	
Tl	203	1	No Gas	100.805	0.891	346392	1.83	100	100.8	90	110	
Pb	208	1	No Gas	102.453	0.499	1283242	1.61	100	102.5	90	110	
U	238	1	No Gas	101.730	1.866	1253436	1.58	100	101.7	90	110	
Ca	43	2	He	10447.981	5.113	17144	2.61	10000	104.5	90	110	
Sb	121	2	He	102.135	1.880	380881	1.10	100	102.1	90	110	
Ti	47	2	He	100.914	4.971	15075	3.79	100	100.9	90	110	
Cu	63	1	No Gas	103.672	1.540	627757	1.63	100	103.7	90	110	
Se	82	1	No Gas	102.673	1.164	11046	1.83	100	102.7	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	406901	0.59	425695	95.58	70	120	
Ge	72	2	He	396838	2.63	397960	99.72	70	120	
Ge	72	1	No Gas	1015962	1.14	1025238	99.10	70	120	
In	115	1	No Gas	968714	0.84	976955	99.16	70	120	
Bi	209	1	No Gas	760927	1.16	764763	99.50	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	253_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T19:31:45-06:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	-0.033	-103.7	25605	2.7	0.5	
Be	9	1	No Gas	0.021	58.9	62	40.8	0.5	
V	51	2	He	0.044	51.0	1725	3.9	2.5	
Cr	52	2	He	-0.014	-297.9	11685	1.7	2.5	
Fe	56	2	He	0.413	5.7	21674	1.3	100	
Se	78	2	He	0.253	124.3	176	13.4	2	
As	75	2	He	-0.021	-239.2	164	24.4	2.5	
Ca	44	2	He	-7.091	-38.5	1007	6.6	100	
Na	23	2	He	13.777	13.7	128375	0.3	100	
Mg	24	2	He	0.246	36.3	483	7.3	100	
K	39	2	He	-7.191	-28.7	138304	0.1	100	
Mn	55	2	He	-0.153	-28.5	957	12.8	2.5	
Co	59	2	He	0.005	122.8	97	31.6	2.5	
Ni	60	2	He	0.039	82.3	153	26.4	2.5	
Cu	63	2	He	1.455	16.3	38973	2.8	2	
Zn	66	2	He	-0.277	-15.9	467	6.5	2.5	
Al	27	2	He	-0.589	-56.5	403	23.8	5	
B	11	1	No Gas	11.150	8.1	21545	3.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	3.814	186.9	38764	131.9	5	
Si	28	1	No Gas	-6.047	-30.2	194049	0.9	10	
Ag	107	1	No Gas	0.013	33.6	110	24.1	2.5	
Cd	111	1	No Gas	0.015	75.8	23	65.5	1	
Sr	88	1	No Gas	0.018	34.4	703	10.7	2.5	
Mo	95	1	No Gas	0.100	28.3	283	26.0	2.5	
Sn	118	1	No Gas	-0.038	-93.3	807	15.7	5	
Sb	121	1	No Gas	0.065	24.6	553	18.1	2.5	
Ba	137	1	No Gas	-0.021	-24.3	100	10.0	2.5	
Tl	205	1	No Gas	0.401	19.9	3444	20.6	1	
Tl	203	1	No Gas	0.382	22.6	1377	23.0	1	
Pb	208	1	No Gas	0.007	64.5	377	16.0	2.5	
U	238	1	No Gas	0.015	39.6	200	36.1	2.5	
Ca	43	2	He	14.626	66.0	37	41.7	100	
Sb	121	2	He	0.070	26.5	343	19.4	2.5	
Ti	47	2	He	0.070	114.5	17	69.3	2.5	
Cu	63	1	No Gas	1.733	19.6	84512	3.0	2.5	
Se	82	1	No Gas	0.206	303.6	-69	-99.7	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	414235	1.94	425695	97.31	70	120	
Ge	72	2	He	390392	0.96	397960	98.10	70	120	
Ge	72	1	No Gas	1011200	3.38	1025238	98.63	70	120	
In	115	1	No Gas	992279	0.61	976955	101.57	70	120	
Bi	209	1	No Gas	773116	0.96	764763	101.09	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	264_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T19:54:12-06:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	102.073	1.315	643940	0.87	100	102.1	90	110	
Be	9	1	No Gas	98.436	1.238	215411	0.93	100	98.4	90	110	
V	51	2	He	101.589	1.252	368526	0.62	100	101.6	90	110	
Cr	52	2	He	102.529	1.446	415354	0.32	100	102.5	90	110	
Fe	56	2	He	10401.761	0.512	36954148	1.34	10000	104.0	90	110	
Se	78	2	He	101.854	1.406	7734	1.61	100	101.9	90	110	
As	75	2	He	103.962	0.604	82910	1.59	100	104.0	90	110	
Ca	44	2	He	10480.809	3.253	293419	2.30	10000	104.8	90	110	
Na	23	2	He	10523.258	2.387	8004576	2.19	10000	105.2	90	110	
Mg	24	2	He	10495.607	2.853	4693415	1.93	10000	105.0	90	110	
K	39	2	He	10669.085	2.545	6516964	0.89	10000	106.7	90	110	
Mn	55	2	He	103.416	1.881	320007	1.41	100	103.4	90	110	
Co	59	2	He	100.366	1.755	531219	0.08	100	100.4	90	110	
Ni	60	2	He	102.239	2.974	129519	1.31	100	102.2	90	110	
Cu	63	2	He	104.524	3.207	376445	1.32	100	104.5	90	110	
Zn	66	2	He	102.572	1.285	82936	1.44	100	102.6	90	110	
Al	27	2	He	110.992	2.643	32579	1.11	100	111.0	90	110	CCV Main CR1-2 Failed
B	11	1	No Gas	516.511	2.878	743875	2.37	500	103.3	90	110	
Al	27	1	No Gas	110.496	3.126	790884	2.32	100	110.5	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	801.764	0.703	3415042	1.90	5000	16.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.713	1.408	644150	1.09	100	102.7	90	110	
Cd	111	1	No Gas	100.335	0.736	134084	0.99	100	100.3	90	110	
Sr	88	1	No Gas	104.871	2.536	1314470	3.24	100	104.9	90	110	
Mo	95	1	No Gas	100.138	2.390	253510	2.52	100	100.1	90	110	
Sn	118	1	No Gas	104.511	0.756	383677	1.23	100	104.5	90	110	
Sb	121	1	No Gas	101.837	1.802	609792	0.74	100	101.8	90	110	
Ba	137	1	No Gas	102.938	1.896	193082	0.55	100	102.9	90	110	
Tl	205	1	No Gas	99.577	0.780	836752	0.97	100	99.6	90	110	
Tl	203	1	No Gas	100.438	1.129	348606	1.07	100	100.4	90	110	
Pb	208	1	No Gas	101.915	0.511	1289491	1.77	100	101.9	90	110	
U	238	1	No Gas	101.059	1.100	1257808	0.66	100	101.1	90	110	
Ca	43	2	He	10630.823	2.911	17612	1.31	10000	106.3	90	110	
Sb	121	2	He	103.860	1.561	390865	0.51	100	103.9	90	110	
Ti	47	2	He	109.254	1.339	16477	1.95	100	109.3	90	110	
Cu	63	1	No Gas	104.322	1.332	644668	2.89	100	104.3	90	110	
Se	82	1	No Gas	104.635	4.395	11500	5.49	100	104.6	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	426532	0.64	425695	100.20	70	120	
Ge	72	2	He	400421	1.69	397960	100.62	70	120	
Ge	72	1	No Gas	1037571	2.53	1025238	101.20	70	120	
In	115	1	No Gas	983668	1.70	976955	100.69	70	120	
Bi	209	1	No Gas	768696	1.75	764763	100.51	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	265_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq Date Time	2023-02-07T19:56:10-06:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	183CALB.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	0.074	56.2	27171	1.8	0.5	
Be	9	1	No Gas	0.027	21.0	78	16.1	0.5	
V	51	2	He	0.057	26.3	1821	2.9	2.5	
Cr	52	2	He	0.071	82.6	12359	2.7	2.5	
Fe	56	2	He	0.699	6.3	23317	0.4	100	
Se	78	2	He	0.170	212.6	175	14.5	2	
As	75	2	He	-0.021	-72.1	169	6.3	2.5	
Ca	44	2	He	-6.558	-84.2	1050	13.7	100	
Na	23	2	He	15.057	9.3	133049	1.5	100	
Mg	24	2	He	0.882	21.3	783	11.4	100	
K	39	2	He	-0.659	-779.4	146191	1.1	100	
Mn	55	2	He	-0.221	-7.0	773	6.5	2.5	
Co	59	2	He	0.012	63.0	137	29.6	2.5	
Ni	60	2	He	0.218	137.4	384	98.8	2.5	
Cu	63	2	He	3.072	6.9	45383	0.8	2	CCB Main CR1 Failed
Zn	66	2	He	-0.295	-34.7	467	18.5	2.5	
Al	27	2	He	-0.731	-9.2	373	6.2	5	
B	11	1	No Gas	12.347	3.4	24059	3.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.292	-40.9	9641	7.3	5	
Si	28	1	No Gas	-5.109	-10.4	201267	0.6	10	
Ag	107	1	No Gas	0.013	15.6	110	9.1	2.5	
Cd	111	1	No Gas	0.005	151.6	10	100.0	1	
Sr	88	1	No Gas	0.017	70.9	690	19.9	2.5	
Mo	95	1	No Gas	0.108	17.7	303	13.7	2.5	
Sn	118	1	No Gas	-0.050	-8.8	763	0.8	5	
Sb	121	1	No Gas	0.069	25.2	583	16.3	2.5	
Ba	137	1	No Gas	-0.014	-121.5	113	28.4	2.5	
Tl	205	1	No Gas	0.379	19.6	3294	19.7	1	
Tl	203	1	No Gas	0.375	19.8	1363	19.4	1	
Pb	208	1	No Gas	0.014	7.0	470	2.1	2.5	
U	238	1	No Gas	0.016	15.0	223	14.4	2.5	
Ca	43	2	He	11.890	57.4	33	34.6	100	
Sb	121	2	He	0.112	3.0	510	2.0	2.5	
Ti	47	2	He	0.000	-18498.0	7	173.2	2.5	
Cu	63	1	No Gas	3.439	18.5	95171	2.2	2.5	CCB Main CR1 Failed
Se	82	1	No Gas	0.421	165.9	-45	-168.2	2	

QC ISTD Table

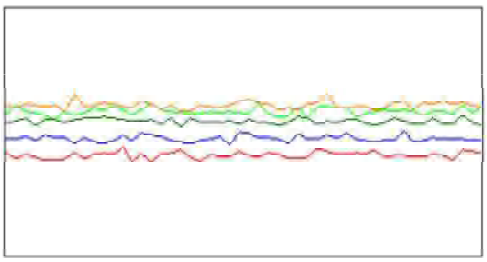
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	429104	1.57	425695	100.80	70	120	
Ge	72	2	He	401645	1.03	397960	100.93	70	120	
Ge	72	1	No Gas	1028811	1.60	1025238	100.35	70	120	
In	115	1	No Gas	993338	2.30	976955	101.68	70	120	
Bi	209	1	No Gas	781894	0.72	764763	102.24	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\020723A.b
Acq. Date-Time	2/7/2023 9:56:40 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	5000	2043	20425.50		
24	10000	5857	58574.69		
59	20000	9534	95342.02		
115	20000	12209	122087.96		
208	10000	5472	54723.24		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	3.238	5.000	
24	2.466	5.000	
59	2.563	5.000	
115	2.406	5.000	
208	1.864	5.000	

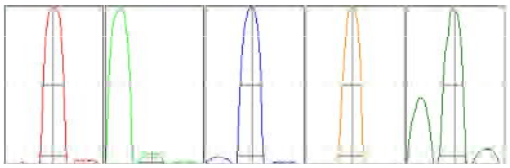
Mass	Background	Background (Required)	Background (Flag)
9	1.100		
24	1.100		
59	0.800		
115	1.200		
208	3.400		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.710 %
Doubly Charged	70 / 140 1.156 %

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	2036.55	9.00	8.90 - 9.10	
24	5848.15	23.95	23.90 - 24.10	
59	9639.80	58.95	58.90 - 59.10	
115	12460.73	114.95	114.90 - 115.10	
208	5508.84	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.783		
24	0.64	0.782		
59	0.62	0.781		
115	0.55	0.763		
208	0.61	0.798		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.65 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	15.2 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-45 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	1.6 mm	Torch V	-0.5 mm

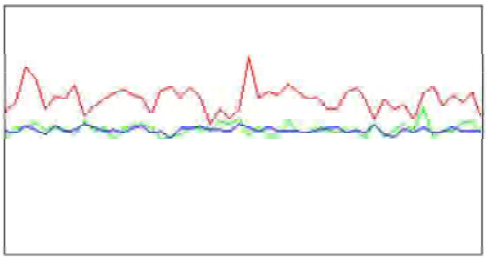
EM

Discriminator	4.5 mV	Analog HV	2977 V	Pulse HV	1617 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	200	126	1257.46		
24	1000	505	5050.91		
59	10000	5022	50220.05		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

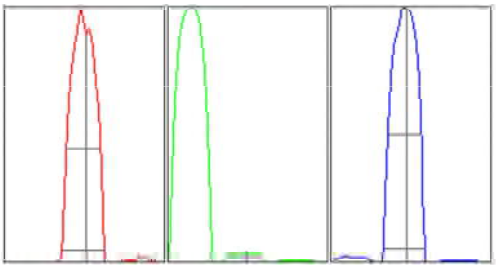
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.313	5.000	Fail
24	4.964	5.000	
59	2.450	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.100		
24	0.200		
59	0.500		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.335 %
Doubly Charged	70 / 140 0.967 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	120.76	9.05	8.90 - 9.10	
24	483.10	24.00	23.90 - 24.10	
59	4985.51	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.788		
24	0.65	0.783		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.781		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.65 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	0.9 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	1.6 mm	Torch V	-0.5 mm

EM

Discriminator	4.5 mV	Analog HV	2977 V	Pulse HV	1617 V

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right solutions.
right partner.

WorkOrder: HS23011294

LHAAP 16 January 2023

Aptim Environmental & Infrastucture, Inc.

Vicki Graves
10333 Richmond Ave Ste 1030
Houston TX 77042

16-Feb-2023

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HS23011294 LHAAP 16 January 2023 Final

ALS WO# HS23011294

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February 06, 2023

Vicki Graves
Aptim Environmental & Infrastucture, Inc.
10333 Richmond Ave
Ste 1030
Houston, TX 77042

Work Order: **HS23011294**

Laboratory Results for: **LHAAP 16 January 2023**

Dear Vicki Graves ,

ALS Environmental received 11 sample(s) on Jan 24, 2023 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Work Order: HS23011294

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23011294-01	16WW40-230121	Groundwater		21-Jan-2023 07:40	24-Jan-2023 09:50	☐
HS23011294-02	16EW08-230121	Groundwater		21-Jan-2023 08:25	24-Jan-2023 09:50	☐
HS23011294-03	16EW04-230121	Groundwater		21-Jan-2023 09:10	24-Jan-2023 09:50	☐
HS23011294-04	16WW27-230121	Groundwater		21-Jan-2023 10:30	24-Jan-2023 09:50	☐
HS23011294-05	16WW43-230121	Groundwater		21-Jan-2023 11:15	24-Jan-2023 09:50	☐
HS23011294-06	16WW23-230121	Groundwater		21-Jan-2023 11:55	24-Jan-2023 09:50	☐
HS23011294-07	16WW23-230121-FD	Groundwater		21-Jan-2023 11:55	24-Jan-2023 09:50	☐
HS23011294-08	16WW24-230121	Groundwater		21-Jan-2023 12:40	24-Jan-2023 09:50	☐
HS23011294-09	16WW13-230121	Groundwater		21-Jan-2023 13:25	24-Jan-2023 09:50	☐
HS23011294-10	16WW42-230121	Groundwater		21-Jan-2023 14:05	24-Jan-2023 09:50	☐
HS23011294-11	Trip Blank-230121	Water	cg-101321-149	21-Jan-2023 00:00	24-Jan-2023 09:50	☐

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc. **CASE NARRATIVE**
Project: LHAAP 16 January 2023
Work Order: HS23011294

Work Order Comments

• The analysis for Perchlorate was performed by ALS Houston Specialty Lab. The final report is appended.

GC Semivolatiles by Method RSK-175

Batch ID: R427362

Sample ID: HS23011136-04MS

• MS and MSD are for an unrelated sample

GCMS Volatiles by Method SW8260

Batch ID: R427296

Sample ID: 16WW13-230121 (HS23011294-09)

• Surrogate failures due to matrix. Confirmed by re-analysis @ higher dilution.

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

Batch ID: R427080,R427117,R427191

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

WetChemistry by Method SM5310B

Batch ID: R427017

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW40-230121
Collection Date: 21-Jan-2023 07:40

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	03-Feb-2023 14:42
1,1-Dichloroethene	**2.6**		**0.20**	**1.0**	**1.0**	**ug/L**	1	03-Feb-2023 14:42
1,2-Dichloroethane	**2.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	03-Feb-2023 14:42
cis-1,2-Dichloroethene	**200**		**1.0**	**5.0**	**5.0**	**ug/L**	5	02-Feb-2023 17:38
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	03-Feb-2023 14:42
Trichloroethene	**480**		**1.0**	**5.0**	**5.0**	**ug/L**	5	02-Feb-2023 17:38
Vinyl chloride	**4.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	03-Feb-2023 14:42
Surr: 1,2-Dichloroethane-d4	*98.0*			**0**	*81-118*	*%REC*	*5*	*02-Feb-2023 17:38*
Surr: 1,2-Dichloroethane-d4	*96.3*			**0**	*81-118*	*%REC*	*1*	*03-Feb-2023 14:42*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*5*	*02-Feb-2023 17:38*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*03-Feb-2023 14:42*
Surr: Dibromofluoromethane	*90.1*			**0**	*80-119*	*%REC*	*5*	*02-Feb-2023 17:38*
Surr: Dibromofluoromethane	*89.2*			**0**	*80-119*	*%REC*	*1*	*03-Feb-2023 14:42*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*5*	*02-Feb-2023 17:38*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*03-Feb-2023 14:42*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: PPM
Ethane	**0.00296**		**0.000144**	**0.000500**	**0.00100**	**mg/L**	1	30-Jan-2023 09:55
Ethene	**0.00534**		**0.000234**	**0.000500**	**0.00100**	**mg/L**	1	30-Jan-2023 09:55
Methane	**0.909**		**0.00535**	**0.0250**	**0.0250**	**mg/L**	50	30-Jan-2023 12:36
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**						Analyst: JAC
Organic Carbon, Total	**5.00**		**0.500**	**1.00**	**1.00**	**mg/L**	1	30-Jan-2023 21:15
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16EW08-230121
Collection Date: 21-Jan-2023 08:25

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	03-Feb-2023 12:47
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	03-Feb-2023 12:47
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	03-Feb-2023 12:47
cis-1,2-Dichloroethene	**0.91**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	03-Feb-2023 12:47
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	03-Feb-2023 12:47
Trichloroethene	**2.2**		**0.20**	**1.0**	**1.0**	**ug/L**	1	03-Feb-2023 12:47
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	03-Feb-2023 12:47
Surr: 1,2-Dichloroethane-d4	*96.0*			**0**	*81-118*	*%REC*	*1*	*03-Feb-2023 12:47*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*03-Feb-2023 12:47*
Surr: Dibromofluoromethane	*89.9*			**0**	*80-119*	*%REC*	*1*	*03-Feb-2023 12:47*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*03-Feb-2023 12:47*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16EW04-230121
Collection Date: 21-Jan-2023 09:10

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	100	U	30	100	100	ug/L	100	03-Feb-2023 15:04
1,1-Dichloroethene	100	U	20	100	100	ug/L	100	03-Feb-2023 15:04
1,2-Dichloroethane	100	U	20	100	100	ug/L	100	03-Feb-2023 15:04
cis-1,2-Dichloroethene	**6,300**		**20**	**100**	**100**	**ug/L**	100	03-Feb-2023 15:04
Methylene chloride	100	U	40	100	200	ug/L	100	03-Feb-2023 15:04
Trichloroethene	**28,000**		**200**	**1000**	**1000**	**ug/L**	1000	03-Feb-2023 16:07
Vinyl chloride	**180**		**20**	**100**	**100**	**ug/L**	100	03-Feb-2023 15:04
Surr: 1,2-Dichloroethane-d4	*95.4*			**0**	*81-118*	*%REC*	*100*	*03-Feb-2023 15:04*
Surr: 1,2-Dichloroethane-d4	*96.6*			**0**	*81-118*	*%REC*	*1000*	*03-Feb-2023 16:07*
Surr: 4-Bromofluorobenzene	*105*			**0**	*85-114*	*%REC*	*1000*	*03-Feb-2023 16:07*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*100*	*03-Feb-2023 15:04*
Surr: Dibromofluoromethane	*89.4*			**0**	*80-119*	*%REC*	*100*	*03-Feb-2023 15:04*
Surr: Dibromofluoromethane	*90.9*			**0**	*80-119*	*%REC*	*1000*	*03-Feb-2023 16:07*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1000*	*03-Feb-2023 16:07*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*100*	*03-Feb-2023 15:04*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW27-230121
Collection Date: 21-Jan-2023 10:30

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	02-Feb-2023 07:25
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:25
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:25
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:25
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	02-Feb-2023 07:25
Trichloroethene	**1.9**		**0.20**	**1.0**	**1.0**	**ug/L**	1	02-Feb-2023 07:25
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:25
Surr: 1,2-Dichloroethane-d4	*98.4*			**0**	*81-118*	*%REC*	*1*	*02-Feb-2023 07:25*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*02-Feb-2023 07:25*
Surr: Dibromofluoromethane	*90.0*			**0**	*80-119*	*%REC*	*1*	*02-Feb-2023 07:25*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*02-Feb-2023 07:25*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW43-230121
Collection Date: 21-Jan-2023 11:15

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	02-Feb-2023 07:04
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:04
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:04
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:04
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	02-Feb-2023 07:04
Trichloroethene	**0.63**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	02-Feb-2023 07:04
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 07:04
Surr: 1,2-Dichloroethane-d4	*97.7*			**0**	*81-118*	*%REC*	*1*	*02-Feb-2023 07:04*
Surr: 4-Bromofluorobenzene	*101*			**0**	*85-114*	*%REC*	*1*	*02-Feb-2023 07:04*
Surr: Dibromofluoromethane	*90.9*			**0**	*80-119*	*%REC*	*1*	*02-Feb-2023 07:04*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*02-Feb-2023 07:04*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW23-230121
Collection Date: 21-Jan-2023 11:55

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	02-Feb-2023 06:22
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:22
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:22
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:22
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	02-Feb-2023 06:22
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:22
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:22
Surr: 1,2-Dichloroethane-d4	*97.2*			**0**	*81-118*	*%REC*	*1*	*02-Feb-2023 06:22*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*02-Feb-2023 06:22*
Surr: Dibromofluoromethane	*91.3*			**0**	*80-119*	*%REC*	*1*	*02-Feb-2023 06:22*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*02-Feb-2023 06:22*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW23-230121-FD
Collection Date: 21-Jan-2023 11:55

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	02-Feb-2023 06:43
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:43
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:43
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:43
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	02-Feb-2023 06:43
Trichloroethene	**0.64**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	02-Feb-2023 06:43
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 06:43
Surr: 1,2-Dichloroethane-d4	*96.9*			**0**	*81-118*	*%REC*	*1*	*02-Feb-2023 06:43*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*02-Feb-2023 06:43*
Surr: Dibromofluoromethane	*91.2*			**0**	*80-119*	*%REC*	*1*	*02-Feb-2023 06:43*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*02-Feb-2023 06:43*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW24-230121
Collection Date: 21-Jan-2023 12:40

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	02-Feb-2023 16:55
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 16:55
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 16:55
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 16:55
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	02-Feb-2023 16:55
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 16:55
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 16:55
Surr: 1,2-Dichloroethane-d4	*93.0*			**0**	*81-118*	*%REC*	*1*	*02-Feb-2023 16:55*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*02-Feb-2023 16:55*
Surr: Dibromofluoromethane	*87.3*			**0**	*80-119*	*%REC*	*1*	*02-Feb-2023 16:55*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*1*	*02-Feb-2023 16:55*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW13-230121
Collection Date: 21-Jan-2023 13:25

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	03-Feb-2023 14:21
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	03-Feb-2023 14:21
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	03-Feb-2023 14:21
cis-1,2-Dichloroethene	**610**		**1.0**	**5.0**	**5.0**	**ug/L**	5	02-Feb-2023 18:20
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	03-Feb-2023 14:21
Trichloroethene	**89**		**0.20**	**1.0**	**1.0**	**ug/L**	1	03-Feb-2023 14:21
Vinyl chloride	**2.9**		**0.20**	**1.0**	**1.0**	**ug/L**	1	03-Feb-2023 14:21
Surr: 1,2-Dichloroethane-d4	*98.1*			**0**	*81-118*	*%REC*	*5*	*02-Feb-2023 18:20*
Surr: 1,2-Dichloroethane-d4	*62.8*	*S*		**0**	*81-118*	*%REC*	*1*	*03-Feb-2023 14:21*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*5*	*02-Feb-2023 18:20*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*03-Feb-2023 14:21*
Surr: Dibromofluoromethane	*90.2*			**0**	*80-119*	*%REC*	*5*	*02-Feb-2023 18:20*
Surr: Dibromofluoromethane	*58.9*	*S*		**0**	*80-119*	*%REC*	*1*	*03-Feb-2023 14:21*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*5*	*02-Feb-2023 18:20*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*03-Feb-2023 14:21*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: 16WW42-230121
Collection Date: 21-Jan-2023 14:05

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	02-Feb-2023 17:17
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 17:17
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 17:17
cis-1,2-Dichloroethene	**44**		**0.20**	**1.0**	**1.0**	**ug/L**	1	02-Feb-2023 17:17
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	02-Feb-2023 17:17
Trichloroethene	**27**		**0.20**	**1.0**	**1.0**	**ug/L**	1	02-Feb-2023 17:17
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	02-Feb-2023 17:17
Surr: 1,2-Dichloroethane-d4	*97.1*			**0**	*81-118*	*%REC*	*1*	*02-Feb-2023 17:17*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*02-Feb-2023 17:17*
Surr: Dibromofluoromethane	*89.5*			**0**	*80-119*	*%REC*	*1*	*02-Feb-2023 17:17*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*02-Feb-2023 17:17*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	31-Jan-2023 15:57

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
Sample ID: Trip Blank-230121
Collection Date: 21-Jan-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23011294
Lab ID:HS23011294-11
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	01-Feb-2023 13:24
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	01-Feb-2023 13:24
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	01-Feb-2023 13:24
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	01-Feb-2023 13:24
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	01-Feb-2023 13:24
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	01-Feb-2023 13:24
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	01-Feb-2023 13:24
Surr: 1,2-Dichloroethane-d4	*99.4*			**0**	*81-118*	*%REC*	*1*	*01-Feb-2023 13:24*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*01-Feb-2023 13:24*
Surr: Dibromofluoromethane	*91.9*			**0**	*80-119*	*%REC*	*1*	*01-Feb-2023 13:24*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*01-Feb-2023 13:24*

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

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R426969 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS23011294-01	16WW40-230121	21 Jan 2023 07:40			31 Jan 2023 15:57	1
HS23011294-02	16EW08-230121	21 Jan 2023 08:25			31 Jan 2023 15:57	1
HS23011294-03	16EW04-230121	21 Jan 2023 09:10			31 Jan 2023 15:57	1
HS23011294-04	16WW27-230121	21 Jan 2023 10:30			31 Jan 2023 15:57	1
HS23011294-05	16WW43-230121	21 Jan 2023 11:15			31 Jan 2023 15:57	1
HS23011294-06	16WW23-230121	21 Jan 2023 11:55			31 Jan 2023 15:57	1
HS23011294-07	16WW23-230121-FD	21 Jan 2023 11:55			31 Jan 2023 15:57	1
HS23011294-08	16WW24-230121	21 Jan 2023 12:40			31 Jan 2023 15:57	1
HS23011294-09	16WW13-230121	21 Jan 2023 13:25			31 Jan 2023 15:57	1
HS23011294-10	16WW42-230121	21 Jan 2023 14:05			31 Jan 2023 15:57	1
Batch ID: R427017 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Groundwater	
HS23011294-01	16WW40-230121	21 Jan 2023 07:40			30 Jan 2023 21:15	1
Batch ID: R427080 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23011294-11	Trip Blank-230121	21 Jan 2023 00:00			01 Feb 2023 13:24	1
Batch ID: R427117 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23011294-04	16WW27-230121	21 Jan 2023 10:30			02 Feb 2023 07:25	1
HS23011294-05	16WW43-230121	21 Jan 2023 11:15			02 Feb 2023 07:04	1
HS23011294-06	16WW23-230121	21 Jan 2023 11:55			02 Feb 2023 06:22	1
HS23011294-07	16WW23-230121-FD	21 Jan 2023 11:55			02 Feb 2023 06:43	1
Batch ID: R427191 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23011294-01	16WW40-230121	21 Jan 2023 07:40			02 Feb 2023 17:38	5
HS23011294-08	16WW24-230121	21 Jan 2023 12:40			02 Feb 2023 16:55	1
HS23011294-09	16WW13-230121	21 Jan 2023 13:25			02 Feb 2023 18:20	5
HS23011294-10	16WW42-230121	21 Jan 2023 14:05			02 Feb 2023 17:17	1
Batch ID: R427296 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23011294-01	16WW40-230121	21 Jan 2023 07:40			03 Feb 2023 14:42	1
HS23011294-02	16EW08-230121	21 Jan 2023 08:25			03 Feb 2023 12:47	1
HS23011294-03	16EW04-230121	21 Jan 2023 09:10			03 Feb 2023 16:07	1000
HS23011294-03	16EW04-230121	21 Jan 2023 09:10			03 Feb 2023 15:04	100
HS23011294-09	16WW13-230121	21 Jan 2023 13:25			03 Feb 2023 14:21	1
Batch ID: R427362 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Groundwater	
HS23011294-01	16WW40-230121	21 Jan 2023 07:40			30 Jan 2023 12:36	50
HS23011294-01	16WW40-230121	21 Jan 2023 07:40			30 Jan 2023 09:55	1

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427362 (0) **Instrument:** FID-4 **Method:** DISSOLVED GASES BY RSK-175

MBLK Sample ID: **MBLK-230130** Units: **mg/L** Analysis Date: **30-Jan-2023 09:35**
Client ID: Run ID: **FID-4_427362** SeqNo: **7109613** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.000500	0.00100								U
Ethene	0.000500	0.00100								U
Methane	0.000500	0.000500								U

LCS Sample ID: **LCS-230130** Units: **mg/L** Analysis Date: **30-Jan-2023 09:43**
Client ID: Run ID: **FID-4_427362** SeqNo: **7109614** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0194	0.00100	0.01804	0	107	75 - 125				
Ethene	0.0171	0.00100	0.0168	0	102	75 - 125				
Methane	0.00938	0.000500	0.009647	0	97.3	75 - 125				

MS Sample ID: **HS23011136-04MS** Units: **mg/L** Analysis Date: **30-Jan-2023 11:28**
Client ID: Run ID: **FID-4_427362** SeqNo: **7109624** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0316	0.00100	0.01804	0	175	75 - 125				S
Ethene	0.0473	0.00100	0.0168	0	282	75 - 125				S
Methane	4.87	0.000500	0.009647	5.190	-3350	75 - 125				SEO

MSD Sample ID: **HS23011136-04MSD** Units: **mg/L** Analysis Date: **30-Jan-2023 11:37**
Client ID: Run ID: **FID-4_427362** SeqNo: **7109625** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.0295	0.00100	0.01804	0	163	75 - 125	0.03159	6.91	30	S
Ethene	0.0410	0.00100	0.0168	0	244	75 - 125	0.04729	14.3	30	S
Methane	4.81	0.000500	0.009647	5.190	-3910	75 - 125	4.867	1.12	30	SEO

The following samples were analyzed in this batch: HS23011294-01

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427080 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230201** Units: **ug/L** Analysis Date: **01-Feb-2023 12:42**
Client ID: Run ID: **VOA6_427080** SeqNo: **7102059** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*49.87*	*1.0*	*50*	*0*	*99.7*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.86*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*46.27*	*1.0*	*50*	*0*	*92.5*	*80 - 119*				
Surr: Toluene-d8	*51.82*	*1.0*	*50*	*0*	*104*	*89 - 112*				

LCS Sample ID: **VLCSW-230201** Units: **ug/L** Analysis Date: **01-Feb-2023 12:00**
Client ID: Run ID: **VOA6_427080** SeqNo: **7102058** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.06	1.0	20	0	95.3	80 - 119				
1,1-Dichloroethene	19.57	1.0	20	0	97.8	71 - 131				
1,2-Dichloroethane	22.53	1.0	20	0	113	73 - 128				
cis-1,2-Dichloroethene	19.58	1.0	20	0	97.9	78 - 123				
Methylene chloride	19.22	2.0	20	0	96.1	74 - 124				
Trichloroethene	21.38	1.0	20	0	107	79 - 123				
Vinyl chloride	20.5	1.0	20	0	103	58 - 137				
Surr: 1,2-Dichloroethane-d4	*51.44*	*1.0*	*50*	*0*	*103*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.38*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*47.17*	*1.0*	*50*	*0*	*94.3*	*80 - 119*				
Surr: Toluene-d8	*47.75*	*1.0*	*50*	*0*	*95.5*	*89 - 112*				

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427080 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23011397-02MS** Units: **ug/L** Analysis Date: **01-Feb-2023 14:48**
Client ID: Run ID: **VOA6_427080** SeqNo: **7102065** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.5	1.0	20	0	97.5	80 - 119				
1,1-Dichloroethene	18.29	1.0	20	0	91.4	71 - 131				
1,2-Dichloroethane	20.66	1.0	20	0	103	73 - 128				
cis-1,2-Dichloroethene	18.33	1.0	20	0	91.7	78 - 123				
Methylene chloride	16.83	2.0	20	0	84.1	74 - 124				
Trichloroethene	24.26	1.0	20	2.228	110	79 - 123				
Vinyl chloride	16.55	1.0	20	0	82.7	58 - 137				
Surr: 1,2-Dichloroethane-d4	*49.57*	*1.0*	*50*	*0*	*99.1*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.08*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*44.8*	*1.0*	*50*	*0*	*89.6*	*80 - 119*				
Surr: Toluene-d8	*52.12*	*1.0*	*50*	*0*	*104*	*89 - 112*				

MSD Sample ID: **HS23011397-02MSD** Units: **ug/L** Analysis Date: **01-Feb-2023 15:09**
Client ID: Run ID: **VOA6_427080** SeqNo: **7102066** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.2	1.0	20	0	96.0	80 - 119	19.5	1.55	20	
1,1-Dichloroethene	17.87	1.0	20	0	89.3	71 - 131	18.29	2.31	20	
1,2-Dichloroethane	21.08	1.0	20	0	105	73 - 128	20.66	1.98	20	
cis-1,2-Dichloroethene	17.79	1.0	20	0	88.9	78 - 123	18.33	3.02	20	
Methylene chloride	16.43	2.0	20	0	82.2	74 - 124	16.83	2.37	20	
Trichloroethene	23.11	1.0	20	2.228	104	79 - 123	24.26	4.88	20	
Vinyl chloride	15.44	1.0	20	0	77.2	58 - 137	16.55	6.91	20	
Surr: 1,2-Dichloroethane-d4	*48.78*	*1.0*	*50*	*0*	*97.6*	*81 - 118*	*49.57*	*1.61*	*20*	
Surr: 4-Bromofluorobenzene	*52.02*	*1.0*	*50*	*0*	*104*	*85 - 114*	*52.08*	*0.115*	*20*	
Surr: Dibromofluoromethane	*45.01*	*1.0*	*50*	*0*	*90.0*	*80 - 119*	*44.8*	*0.47*	*20*	
Surr: Toluene-d8	*52.1*	*1.0*	*50*	*0*	*104*	*89 - 112*	*52.12*	*0.0414*	*20*	

The following samples were analyzed in this batch: HS23011294-11

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427117 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230201** Units: **ug/L** Analysis Date: **01-Feb-2023 23:21**
Client ID: Run ID: **VOA6_427117** SeqNo: **7103305** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*49.33*	*1.0*	*50*	*0*	*98.7*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.72*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*45.83*	*1.0*	*50*	*0*	*91.7*	*80 - 119*				
Surr: Toluene-d8	*51.58*	*1.0*	*50*	*0*	*103*	*89 - 112*				

LCS Sample ID: **VLCSW-230201** Units: **ug/L** Analysis Date: **01-Feb-2023 22:38**
Client ID: Run ID: **VOA6_427117** SeqNo: **7103304** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	20.95	1.0	20	0	105	80 - 119				
1,1-Dichloroethene	20.05	1.0	20	0	100	71 - 131				
1,2-Dichloroethane	23.22	1.0	20	0	116	73 - 128				
cis-1,2-Dichloroethene	20.88	1.0	20	0	104	78 - 123				
Methylene chloride	20.82	2.0	20	0	104	74 - 124				
Trichloroethene	22.9	1.0	20	0	114	79 - 123				
Vinyl chloride	21.16	1.0	20	0	106	58 - 137				
Surr: 1,2-Dichloroethane-d4	*54.02*	*1.0*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.78*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*47.83*	*1.0*	*50*	*0*	*95.7*	*80 - 119*				
Surr: Toluene-d8	*48.69*	*1.0*	*50*	*0*	*97.4*	*89 - 112*				

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427117 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23011576-06MS** Units: **ug/L** Analysis Date: **02-Feb-2023 01:48**
Client ID: Run ID: **VOA6_427117** SeqNo: **7103312** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	18.81	1.0	20	0	94.1	80 - 119				
1,1-Dichloroethene	17.25	1.0	20	0	86.2	71 - 131				
1,2-Dichloroethane	20.2	1.0	20	0	101	73 - 128				
cis-1,2-Dichloroethene	16.53	1.0	20	0	82.7	78 - 123				
Methylene chloride	15.78	2.0	20	0	78.9	74 - 124				
Trichloroethene	24.59	1.0	20	4.062	103	79 - 123				
Vinyl chloride	15.14	1.0	20	0	75.7	58 - 137				
Surr: 1,2-Dichloroethane-d4	*48.16*	*1.0*	*50*	*0*	*96.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.17*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*43.7*	*1.0*	*50*	*0*	*87.4*	*80 - 119*				
Surr: Toluene-d8	*51.8*	*1.0*	*50*	*0*	*104*	*89 - 112*				

MSD Sample ID: **HS23011576-06MSD** Units: **ug/L** Analysis Date: **02-Feb-2023 02:09**
Client ID: Run ID: **VOA6_427117** SeqNo: **7103313** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	18.36	1.0	20	0	91.8	80 - 119	18.81	2.46	20	
1,1-Dichloroethene	16.33	1.0	20	0	81.6	71 - 131	17.25	5.48	20	
1,2-Dichloroethane	20.19	1.0	20	0	101	73 - 128	20.2	0.046	20	
cis-1,2-Dichloroethene	16.11	1.0	20	0	80.6	78 - 123	16.53	2.59	20	
Methylene chloride	15.24	2.0	20	0	76.2	74 - 124	15.78	3.47	20	
Trichloroethene	23.22	1.0	20	4.062	95.8	79 - 123	24.59	5.74	20	
Vinyl chloride	14.52	1.0	20	0	72.6	58 - 137	15.14	4.19	20	
Surr: 1,2-Dichloroethane-d4	*48.85*	*1.0*	*50*	*0*	*97.7*	*81 - 118*	*48.16*	*1.43*	*20*	
Surr: 4-Bromofluorobenzene	*52.51*	*1.0*	*50*	*0*	*105*	*85 - 114*	*52.17*	*0.656*	*20*	
Surr: Dibromofluoromethane	*44.29*	*1.0*	*50*	*0*	*88.6*	*80 - 119*	*43.7*	*1.35*	*20*	
Surr: Toluene-d8	*51.58*	*1.0*	*50*	*0*	*103*	*89 - 112*	*51.8*	*0.423*	*20*	

The following samples were analyzed in this batch: HS23011294-04 HS23011294-05 HS23011294-06 HS23011294-07

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427191 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230202** Units: **ug/L** Analysis Date: **02-Feb-2023 16:13**
Client ID: Run ID: **VOA6_427191** SeqNo: **7105061** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*48.13*	*1.0*	*50*	*0*	*96.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.46*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*44.9*	*1.0*	*50*	*0*	*89.8*	*80 - 119*				
Surr: Toluene-d8	*52.85*	*1.0*	*50*	*0*	*106*	*89 - 112*				

LCS Sample ID: **VLCSW-230202** Units: **ug/L** Analysis Date: **02-Feb-2023 15:10**
Client ID: Run ID: **VOA6_427191** SeqNo: **7105060** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	20.71	1.0	20	0	104	80 - 119				
1,1-Dichloroethene	18.71	1.0	20	0	93.5	71 - 131				
1,2-Dichloroethane	23.27	1.0	20	0	116	73 - 128				
cis-1,2-Dichloroethene	19.27	1.0	20	0	96.4	78 - 123				
Methylene chloride	19.48	2.0	20	0	97.4	74 - 124				
Trichloroethene	22.24	1.0	20	0	111	79 - 123				
Vinyl chloride	20.11	1.0	20	0	101	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.74*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.78*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*45.19*	*1.0*	*50*	*0*	*90.4*	*80 - 119*				
Surr: Toluene-d8	*48.09*	*1.0*	*50*	*0*	*96.2*	*89 - 112*				

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427191 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23011294-08MS** Units: **ug/L** Analysis Date: **02-Feb-2023 19:23**
Client ID: **16WW24-230121** Run ID: **VOA6_427191** SeqNo: **7105069** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	18.28	1.0	20	0	91.4	80 - 119				
1,1-Dichloroethene	16.4	1.0	20	0	82.0	71 - 131				
1,2-Dichloroethane	20.19	1.0	20	0	101	73 - 128				
cis-1,2-Dichloroethene	16.74	1.0	20	0	83.7	78 - 123				
Methylene chloride	16.13	2.0	20	0	80.6	74 - 124				
Trichloroethene	21.32	1.0	20	0	107	79 - 123				
Vinyl chloride	15.24	1.0	20	0	76.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*47.65*	*1.0*	*50*	*0*	*95.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.23*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*43.12*	*1.0*	*50*	*0*	*86.2*	*80 - 119*				
Surr: Toluene-d8	*51.75*	*1.0*	*50*	*0*	*103*	*89 - 112*				

MSD Sample ID: **HS23011294-08MSD** Units: **ug/L** Analysis Date: **02-Feb-2023 19:44**
Client ID: **16WW24-230121** Run ID: **VOA6_427191** SeqNo: **7105070** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	18.61	1.0	20	0	93.1	80 - 119	18.28	1.82	20	
1,1-Dichloroethene	15.86	1.0	20	0	79.3	71 - 131	16.4	3.35	20	
1,2-Dichloroethane	19.66	1.0	20	0	98.3	73 - 128	20.19	2.66	20	
cis-1,2-Dichloroethene	16.3	1.0	20	0	81.5	78 - 123	16.74	2.65	20	
Methylene chloride	15.39	2.0	20	0	76.9	74 - 124	16.13	4.7	20	
Trichloroethene	20.13	1.0	20	0	101	79 - 123	21.32	5.72	20	
Vinyl chloride	14.73	1.0	20	0	73.7	58 - 137	15.24	3.39	20	
Surr: 1,2-Dichloroethane-d4	*47.49*	*1.0*	*50*	*0*	*95.0*	*81 - 118*	*47.65*	*0.337*	*20*	
Surr: 4-Bromofluorobenzene	*52.87*	*1.0*	*50*	*0*	*106*	*85 - 114*	*52.23*	*1.22*	*20*	
Surr: Dibromofluoromethane	*43.1*	*1.0*	*50*	*0*	*86.2*	*80 - 119*	*43.12*	*0.0325*	*20*	
Surr: Toluene-d8	*52.02*	*1.0*	*50*	*0*	*104*	*89 - 112*	*51.75*	*0.525*	*20*	

The following samples were analyzed in this batch: HS23011294-01 HS23011294-08 HS23011294-09 HS23011294-10

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427296 (0) **Instrument: VOA6** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230203** Units: **ug/L** Analysis Date: **03-Feb-2023 12:26**
Client ID: Run ID: **VOA6_427296** SeqNo: **7107707** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
Methylene chloride	1.0	2.0								U
Trichloroethene	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*47.4*	*1.0*	*50*	*0*	*94.8*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.68*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*44.25*	*1.0*	*50*	*0*	*88.5*	*80 - 119*				
Surr: Toluene-d8	*52.32*	*1.0*	*50*	*0*	*105*	*89 - 112*				

LCS Sample ID: **VLCSW-230203** Units: **ug/L** Analysis Date: **03-Feb-2023 11:44**
Client ID: Run ID: **VOA6_427296** SeqNo: **7107706** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	20.24	1.0	20	0	101	80 - 119				
1,1-Dichloroethene	16.88	1.0	20	0	84.4	71 - 131				
1,2-Dichloroethane	22.13	1.0	20	0	111	73 - 128				
cis-1,2-Dichloroethene	18.61	1.0	20	0	93.0	78 - 123				
Methylene chloride	19.26	2.0	20	0	96.3	74 - 124				
Trichloroethene	20.51	1.0	20	0	103	79 - 123				
Vinyl chloride	17.84	1.0	20	0	89.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*49.56*	*1.0*	*50*	*0*	*99.1*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.54*	*1.0*	*50*	*0*	*99.1*	*85 - 114*				
Surr: Dibromofluoromethane	*45.61*	*1.0*	*50*	*0*	*91.2*	*80 - 119*				
Surr: Toluene-d8	*47.15*	*1.0*	*50*	*0*	*94.3*	*89 - 112*				

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427296 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23011233-07MS** Units: **ug/L** Analysis Date: **03-Feb-2023 15:25**
Client ID: Run ID: **VOA6_427296** SeqNo: **7107713** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.07	1.0	20	0	95.4	80 - 119				
1,1-Dichloroethene	16.88	1.0	20	0	84.4	71 - 131				
1,2-Dichloroethane	19.86	1.0	20	0	99.3	73 - 128				
cis-1,2-Dichloroethene	17.95	1.0	20	0	89.8	78 - 123				
Methylene chloride	16.45	2.0	20	0	82.2	74 - 124				
Trichloroethene	21.88	1.0	20	0	109	79 - 123				
Vinyl chloride	15.88	1.0	20	0	79.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*48.2*	*1.0*	*50*	*0*	*96.4*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.37*	*1.0*	*50*	*0*	*105*	*85 - 114*				
Surr: Dibromofluoromethane	*44.06*	*1.0*	*50*	*0*	*88.1*	*80 - 119*				
Surr: Toluene-d8	*51.86*	*1.0*	*50*	*0*	*104*	*89 - 112*				

MSD Sample ID: **HS23011233-07MSD** Units: **ug/L** Analysis Date: **03-Feb-2023 15:46**
Client ID: Run ID: **VOA6_427296** SeqNo: **7107714** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,2-Trichloroethane	19.19	1.0	20	0	96.0	80 - 119	19.07	0.633	20	
1,1-Dichloroethene	16.18	1.0	20	0	80.9	71 - 131	16.88	4.29	20	
1,2-Dichloroethane	20.39	1.0	20	0	102	73 - 128	19.86	2.65	20	
cis-1,2-Dichloroethene	17.48	1.0	20	0	87.4	78 - 123	17.95	2.67	20	
Methylene chloride	15.76	2.0	20	0	78.8	74 - 124	16.45	4.26	20	
Trichloroethene	20.91	1.0	20	0	105	79 - 123	21.88	4.52	20	
Vinyl chloride	15.18	1.0	20	0	75.9	58 - 137	15.88	4.53	20	
Surr: 1,2-Dichloroethane-d4	*48.01*	*1.0*	*50*	*0*	*96.0*	*81 - 118*	*48.2*	*0.403*	*20*	
Surr: 4-Bromofluorobenzene	*52.74*	*1.0*	*50*	*0*	*105*	*85 - 114*	*52.37*	*0.695*	*20*	
Surr: Dibromofluoromethane	*43.79*	*1.0*	*50*	*0*	*87.6*	*80 - 119*	*44.06*	*0.6*	*20*	
Surr: Toluene-d8	*52.04*	*1.0*	*50*	*0*	*104*	*89 - 112*	*51.86*	*0.342*	*20*	

The following samples were analyzed in this batch: HS23011294-01 HS23011294-02 HS23011294-03 HS23011294-09

ALS Houston, US Date: 06-Feb-23

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: HS23011294

QC BATCH REPORT

Batch ID: R427017 (0) **Instrument:** TOC_04 **Method:** TOTAL ORGANIC CARBON - SM5310B-2011

MBLK Sample ID: **MBLK-01302023** Units: **mg/L** Analysis Date: **30-Jan-2023 20:05**
Client ID: Run ID: **TOC_04_427017** SeqNo: **7100606** PrepDate: DF: **1**

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

LCS Sample ID: **LCS-01302023** Units: **mg/L** Analysis Date: **30-Jan-2023 20:19**
Client ID: Run ID: **TOC_04_427017** SeqNo: **7100607** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.29	1.00	10	0	113	85 - 115				

LCSD Sample ID: **LCSD-01302023** Units: **mg/L** Analysis Date: **30-Jan-2023 20:33**
Client ID: Run ID: **TOC_04_427017** SeqNo: **7100608** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.14	1.00	10	0	111	85 - 115	11.29	1.34	20	

MS Sample ID: **HS23011271-03MS** Units: **mg/L** Analysis Date: **30-Jan-2023 21:01**
Client ID: Run ID: **TOC_04_427017** SeqNo: **7100610** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	15.53	1.00	10	4.907	106	80 - 120				

The following samples were analyzed in this batch: HS23011294-01

Client: Aptim Environmental & Infrastucture, Inc.
Project: LHAAP 16 January 2023
WorkOrder: **HS23011294**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 06-Feb-23

Sample Receipt Checklist

Work Order ID: HS23011294 **Date/Time Received:** 24-Jan-2023 09:50

Client Name: CBI-Houston **Received by:** Corey Grandits

Completed By: /S/ Corey Grandits (eSignature) 26-Jan-2023 15:02 (Date/Time) **Reviewed by:** (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):	3.0UC/2.5C	IR31
Cooler(s)/Kit(s):	Md Red	
Date/Time sample(s) sent to storage:	1/26/23	

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:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 575-2190 ATTN: Dane Wacasey

Project: APTIM
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. 501032

Job: **LHAAP 16 January 2023**

Prepared By: Scott Beesinger

P.O. Number

Aptim Environmental & Infrastucture, Inc.
LHAAP 16 January 2023

HS23011294

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: VOC by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions sulfate and nitrate by SW9056	CO2 by RSK 175	Perchlorate by SW 6850	Manganese by SW6020A	Re (Pl etc
16WW40-230121	WG	1/24/23 0740		9	X	X	X			X		
16EWC8-230121	WG	1/24/23 0825		4	X					X		
16EWC4-230121	WG	1/21/23 0910		4	X					X		
16WW27-230121	WG	1/21/23 1030		4	X					X		
16WW43-230121	WG	1/21/23 1115		4	X					X		
16WW23-230121	WG	1/21/23 1155		4	X					X		
16WW23-230121-FD	WG	1/21/23 1155		4	X					X		
16WW24-230121	WG	1/21/23 1240		4	X					X		

Additional Remarks: Standard TAT on all parameters. Please email results to Vicki.Graves@aptim.com and invoices to fedinvoices@aptim.com

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	1/23/23	1432									

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
TGREY	1-24-23	0900							

Remarks:

1231 NO RED

3.0°

(Word) S:\I-ces\Forms\Chain of Custody - BiWeekly

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 575-2190 ATTN: Dane Wacasey

Project: APTIM
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. 601032

Job: **LHAAP 16 January 2023**

Prepared By: Scott Beesinger

P.O. Number

Aptim Environmental & Infrastucture, Inc.
LHAAP 16 January 2023

HS23011294

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	VOC by SW 8260B	TOC by SM5310C	MEE by RSK 175	Anions sulfate and nitrate by SW9056	CO2 by RSK 175	Perchlorate by SW 6850	Manganese by SW6020A	Re (Pl etc
16ww24-230121-MS	WG	1/21/23 1240		4	X					X		
16ww24-230121-MSD	WG	1/21/23 1240		4	X					X		
16ww13-230121	WG	1/21/23 1325		4	X					X		
16ww42-230121	WG	1/21/23 1405		4	X					X		
TRIP BLANK-230121	W	1/21/23		2	X							

Additional Remarks: Standard TAT on all parameters. Please email results to Vicki.Graves@aptim.com and invoices to fedinvoices@aptim.com

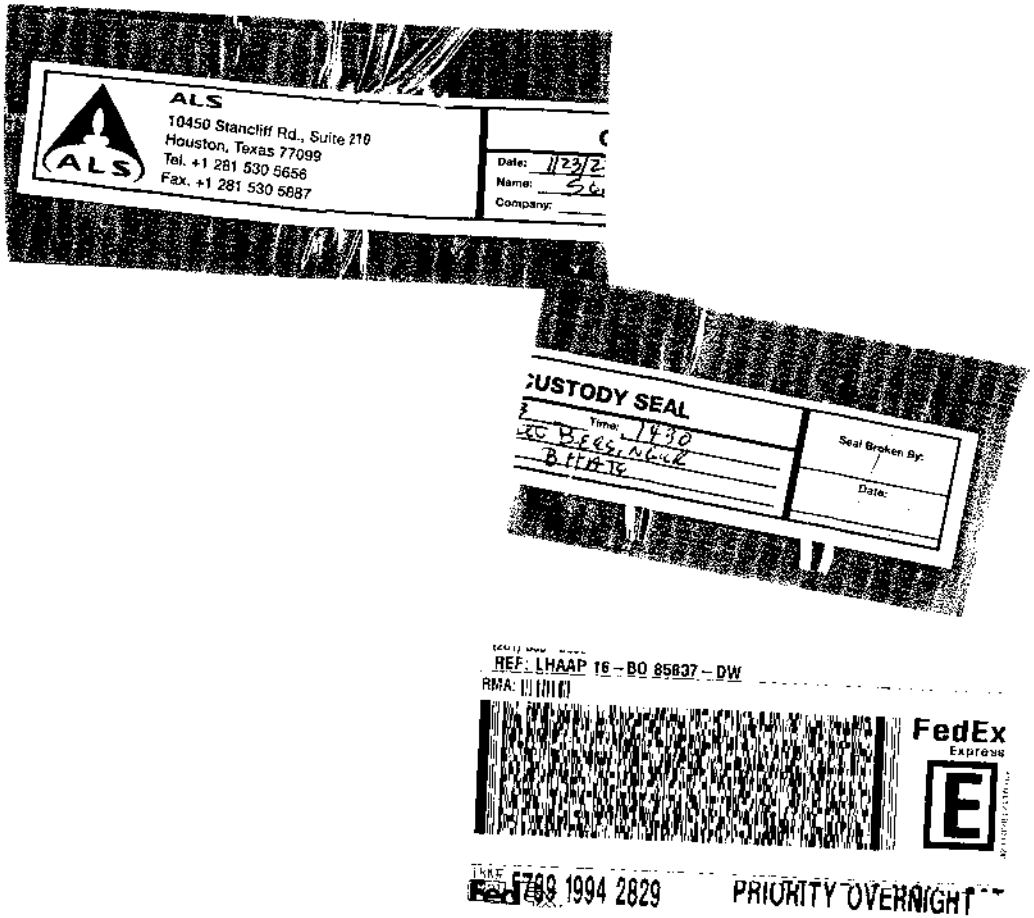
Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	1/23/23	1430									

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
ROBERTA	1-24-23	0930							

Remarks:

(Word) S:\I-ces\Forms\Chain of Custody - BiWeekly


ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5687
Date:
Name:
Company:
CUSTODY SEAL
Time:
Seal Broken By:
Date:
REF: LHAAP 16 - BO 85837 - DW
FedEx
Express
1994 2829
PRIORITY OVERNIGHT

January 31, 2023 Service Request No:E2300085

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23011294

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory January 26, 2023
For your reference, these analyses have been assigned our service request number **E2300085.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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 HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300085
Project:	HS23011294	**Date Received:**	01/26/23
Sample Matrix:	Ground 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 II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Ten samples were received for analysis at ALS Environmental in Houston on 01/26/23.

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:

EQ2300044: 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 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:**E2300085
Project: HS23011294

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300085-001	16WW40-230121	1/21/2023	0740
E2300085-002	16EW08-230121	1/21/2023	0825
E2300085-003	16EW04-230121	1/21/2023	0910
E2300085-004	16WW27-230121	1/21/2023	1030
E2300085-005	16WW43-230121	1/21/2023	1115
E2300085-006	16WW23-230121	1/21/2023	1155
E2300085-007	16WW23-230121-FD	1/21/2023	1155
E2300085-008	16WW24-230121	1/21/2023	1240
E2300085-009	16WW13-230121	1/21/2023	1325
E2300085-010	16WW42-230121	1/21/2023	1405

Service Request Summary

Folder #: **E2300085**
Client Name: ALS Environmental - US
Project Name: HS23011294
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 01/26/23
Internal Due Date: 2/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011294
EDD: BASIC_WQC_CASNo_LOD

12 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300085-001	16WW40-230121	Ground Water	01/21/23 0740	**IV**
E2300085-002	16EW08-230121	Ground Water	01/21/23 0825	**IV**
E2300085-003	16EW04-230121	Ground Water	01/21/23 0910	**IV**
E2300085-004	16WW27-230121	Ground Water	01/21/23 1030	**IV**
E2300085-005	16WW43-230121	Ground Water	01/21/23 1115	**IV**
E2300085-006	16WW23-230121	Ground Water	01/21/23 1155	**IV**
E2300085-007	16WW23-230121-FD	Ground Water	01/21/23 1155	**IV**
E2300085-008	16WW24-230121	Ground Water	01/21/23 1240	**IV**
E2300085-009	16WW13-230121	Ground Water	01/21/23 1325	**IV**
E2300085-010	16WW42-230121	Ground Water	01/21/23 1405	**IV**

Service Request Summary

Folder #: **E2300085**
Client Name: ALS Environmental - US
Project Name: HS23011294
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 01/26/23
Internal Due Date: 2/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23011294
EDD: BASIC_WQC_CASNo_LOD

12 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	9	IV Due 2/13
Semivoa GCMS	ClO4 DOD/6850	1	MS/DMS

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
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

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

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **20840**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23011294
TSR:	Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23011294-01**	**16WW40-230121**	**Groundwater**	**21 Jan 2023 07:40**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
2.	**HS23011294-02**	**16EW08-230121**	**Groundwater**	**21 Jan 2023 08:25**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
3.	**HS23011294-03**	**16EW04-230121**	**Groundwater**	**21 Jan 2023 09:10**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
4.	**HS23011294-04**	**16WW27-230121**	**Groundwater**	**21 Jan 2023 10:30**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
5.	**HS23011294-05**	**16WW43-230121**	**Groundwater**	**21 Jan 2023 11:15**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
6.	**HS23011294-06**	**16WW23-230121**	**Groundwater**	**21 Jan 2023 11:55**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
7.	**HS23011294-07**	**16WW23-230121-FD**	**Groundwater**	**21 Jan 2023 11:55**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
8.	**HS23011294-08**	**16WW24-230121**	**Groundwater**	**21 Jan 2023 12:40**

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 20840**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
9.	**HS23011294-09**	**16WW13-230121**	**Groundwater**	**21 Jan 2023 13:25**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023
10.	**HS23011294-10**	**16WW42-230121**	**Groundwater**	**21 Jan 2023 14:05**
	Level II and Level IV reports on a seperate pdf. Send WOA to Vicki Graves.			07 Feb 2023

Comments: 16WW24-230121 ms/msd

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: JLouis Date/Time: 01/26/23 0900

Cooler ID(s): _____ Temperature(s): _____

ALS Environmental

Cooler Receipt Form

Project Chemist JC

Client/Project ALS Houston

Thermometer ID IR31

Date/Time Received: 01/26/23 0900 Initials: JC

Date/Time Logged in: 01/27/23 0800 Initials JC

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ○ Courier ✓ Client
2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other _____
3. Were custody seals on coolers? ✓ Yes ○ No
   Were they intact? ✓ Yes ○ No ○ N/A
   Were they signed and dated? ✓ Yes ○ No ○ N/A
   If yes, how many and where?
4. Packing Material: ○ Inserts ✓ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other _____
5. Foreign or Regulated Soil? ○ Yes ✓ No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
		01/26/23	0900	CG	2.0	☑
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No
10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

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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 HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 413779 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/30/23 13:47

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300083-001	CTC-37_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300083-002	EA-42_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300083-003	CTC-27_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300083-004	CTC-7_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300083-005	CTC-1_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300083-006	EA-22_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300083-007	CTC-49_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300083-008	900-1_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300083-009	CTC-20_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300083-010	EA-52_0123	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300085-001	16WW40-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300085-002	16EW08-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300085-003	16EW04-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300085-004	16WW27-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300085-005	16WW43-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300085-006	16WW23-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300085-007	16WW23-230121-FD	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300085-008	16WW24-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2300085-009	16WW13-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
20	E2300085-010	16WW42-230121	.01	6850/ClO4 DOD			Ground Water	10mL	
21	EQ2300044-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300044-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2300044-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2300044-04	16WW24-230121 MS	.01	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300044-05	16WW24-230121 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 226778 Logbook Ref: Perchlorate Internal Standard Expires On: 05/31/2023

E2300083-001	100.00µL	E2300083-002	100.00µL	E2300083-003	100.00µL	E2300083-004	100.00µL	E2300083-005	100.00µL	E2300083-006	100.00µL
E2300083-007	100.00µL	E2300083-008	100.00µL	E2300083-009	100.00µL	E2300083-010	100.00µL	E2300085-001	100.00µL	E2300085-002	100.00µL
E2300085-003	100.00µL	E2300085-004	100.00µL	E2300085-005	100.00µL	E2300085-006	100.00µL	E2300085-007	100.00µL	E2300085-008	100.00µL
E2300085-009	100.00µL	E2300085-010	100.00µL	EQ2300044-01	100.00µL	EQ2300044-02	100.00µL	EQ2300044-03	100.00µL	EQ2300044-04	100.00µL
EQ2300044-05	100.00µL										

Preparation Information Benchsheet

Prep Run#: 413779 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 1/30/23 13:47

Name:	Perchlorate Intermediate Stock1	Inventory ID	227236	Logbook Ref:	Perchlorate (1st Source)	Expires On:	07/31/2023

EQ2300044-02 1.00µL EQ2300044-03 1.00µL EQ2300044-04 1.00µL EQ2300044-05 1.00µL

Preparation Materials

Water HPLC Grade	01/04/2023 Water (226857)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	Luer-Lok Syringes (221305)	6850 Pipette Tips 50-1000 uL	6850 Pipette Tips (221929)		

Preparation Steps

Step: Preparation
Started: 1/30/23 13:47
Finished: 1/30/23 15:30
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 01/30/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 0740
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW40-230121	**Units:**	µg/L
Lab Code:	E2300085-001	**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	**0.0305**	J	0.100	0.0500	0.0250	1	1/30/23	1/31/23 11:09	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 0825
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16EW08-230121	**Units:**	µg/L
Lab Code:	E2300085-002	**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	ND	U	0.100	0.0500	0.0250	1	1/30/23	1/31/23 11:15	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 0910
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16EW04-230121	**Units:**	µg/L
Lab Code:	E2300085-003	**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	1/30/23	1/31/23 11:20	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1030
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW27-230121	**Units:**	µg/L
Lab Code:	E2300085-004	**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	ND	U	0.100	0.0500	0.0250	1	1/30/23	1/31/23 11:27	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1115
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW43-230121	**Units:**	µg/L
Lab Code:	E2300085-005	**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	**0.105**		0.100	0.0500	0.0250	1	1/30/23	1/31/23 11:33	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1155
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW23-230121	**Units:**	µg/L
Lab Code:	E2300085-006	**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	ND	U	0.100	0.0500	0.0250	1	1/30/23	1/31/23 11:39	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1155
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW23-230121-FD	**Units:**	µg/L
Lab Code:	E2300085-007	**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	ND	U	0.100	0.0500	0.0250	1	1/30/23	1/31/23 11:45	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1240
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW24-230121	**Units:**	µg/L
Lab Code:	E2300085-008	**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	1/30/23	1/31/23 11:56	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1325
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW13-230121	**Units:**	µg/L
Lab Code:	E2300085-009	**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	0.100	0.0500	0.0250	1	1/30/23	1/31/23 12:02	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1405
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW42-230121	**Units:**	µg/L
Lab Code:	E2300085-010	**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	**0.0572**	J	0.100	0.0500	0.0250	1	1/30/23	1/31/23 12:08	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300044-01	**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	1/30/23	1/31/23 09:34	413779	793155	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23011294
Sample Matrix: Ground Water

Service Request: E2300085
Date Analyzed: 1/31/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 413779

	Lab Control Sample EQ2300044-02			Duplicate Lab Control Sample EQ2300044-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0989	0.100	99	0.0865	0.100	87	84 - 119	13	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300044-02	**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	**0.0989**	J	0.100	0.0500	0.0250	1	1/30/23	1/31/23 09:39	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300044-03	**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	**0.0865**	J	0.100	0.0500	0.0250	1	1/30/23	1/31/23 09:45	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
		Date Analyzed:	1/31/23

Matrix Spike Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	16WW24-230121	**Units:**	µg/L
Lab Code:	E2300085-008	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		16WW24-230121MS			16WW24-230121DMS					
		Matrix Spike			**Duplicate Matrix Spike**					
		EQ2300044-04			EQ2300044-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND	0.0983	0.100	98	0.0887	0.100	89	84 - 119	10	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.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1240
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW24-230121	**Units:**	µg/L
Lab Code:	EQ2300044-04	**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	**0.0983**	J	0.100	0.0500	0.0250	1	1/30/23	1/31/23 10:00	413779	793155	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300085
Project:	HS23011294	**Date Collected:**	1/21/23 1240
Sample Matrix:	Ground Water	**Date Received:**	1/26/23
Sample Name:	16WW24-230121	**Units:**	µg/L
Lab Code:	EQ2300044-05	**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	**0.0887**	J	0.100	0.0500	0.0250	1	1/30/23	1/31/23 10:06	413779	793155	

HS23011294-MSVOA-SW8260

ALS WO# HS23011294

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-01				Collected	Received	Matrix	Basis
16WW40-230121				01/21/23 07:40	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/03/23 14:42	VOA6_427296	X020313
1,1-Dichloroethene	ug/L	2.6		0.20	1.0	1.0	1	02/03/23 14:42	VOA6_427296	X020313
1,2-Dichloroethane	ug/L	2.8		0.20	1.0	1.0	1	02/03/23 14:42	VOA6_427296	X020313
cis-1,2-Dichloroethene	ug/L	200		1.0	5.0	5.0	5	02/02/23 17:38	VOA6_427191	X020212
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/03/23 14:42	VOA6_427296	X020313
Trichloroethene	ug/L	480		1.0	5.0	5.0	5	02/02/23 17:38	VOA6_427191	X020212
Vinyl chloride	ug/L	4.7		0.20	1.0	1.0	1	02/03/23 14:42	VOA6_427296	X020313

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Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-02				Collected	Received	Matrix	Basis
16EW08-230121				01/21/23 08:25	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/03/23 12:47	VOA6_427296	X020308
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:47	VOA6_427296	X020308
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:47	VOA6_427296	X020308
cis-1,2-Dichloroethene	ug/L	0.91	J	0.20	1.0	1.0	1	02/03/23 12:47	VOA6_427296	X020308
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/03/23 12:47	VOA6_427296	X020308
Trichloroethene	ug/L	2.2		0.20	1.0	1.0	1	02/03/23 12:47	VOA6_427296	X020308
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:47	VOA6_427296	X020308

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Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-03

Collected	Received	Matrix	Basis
01/21/23 09:10	01/24/23 09:50	Groundwater	Wet

16EW04-230121

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	100	U	30	100	100	100	02/03/23 15:04	VOA6_427296	X020314
1,1-Dichloroethene	ug/L	100	U	20	100	100	100	02/03/23 15:04	VOA6_427296	X020314
1,2-Dichloroethane	ug/L	100	U	20	100	100	100	02/03/23 15:04	VOA6_427296	X020314
cis-1,2-Dichloroethene	ug/L	6,300		20	100	100	100	02/03/23 15:04	VOA6_427296	X020314
Methylene chloride	ug/L	200	U	40	200	200	100	02/03/23 15:04	VOA6_427296	X020314
Trichloroethene	ug/L	28,000		200	1000	1000	1000	02/03/23 16:07	VOA6_427296	X020317
Vinyl chloride	ug/L	180		20	100	100	100	02/03/23 15:04	VOA6_427296	X020314

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Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-04				Collected	Received	Matrix	Basis
16WW27-230121				01/21/23 10:30	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/02/23 07:25	VOA6_427117	Y020130
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:25	VOA6_427117	Y020130
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:25	VOA6_427117	Y020130
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:25	VOA6_427117	Y020130
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/02/23 07:25	VOA6_427117	Y020130
Trichloroethene	ug/L	1.9		0.20	1.0	1.0	1	02/02/23 07:25	VOA6_427117	Y020130
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:25	VOA6_427117	Y020130

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Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-05		Collected	Received	Matrix	Basis
16WW43-230121		01/21/23 11:15	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/02/23 07:04	VOA6_427117	Y020129
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:04	VOA6_427117	Y020129
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:04	VOA6_427117	Y020129
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:04	VOA6_427117	Y020129
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/02/23 07:04	VOA6_427117	Y020129
Trichloroethene	ug/L	0.63	J	0.20	1.0	1.0	1	02/02/23 07:04	VOA6_427117	Y020129
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 07:04	VOA6_427117	Y020129

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Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-06				Collected	Received	Matrix	Basis
16WW23-230121				01/21/23 11:55	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/02/23 06:22	VOA6_427117	Y020127
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:22	VOA6_427117	Y020127
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:22	VOA6_427117	Y020127
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:22	VOA6_427117	Y020127
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/02/23 06:22	VOA6_427117	Y020127
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:22	VOA6_427117	Y020127
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:22	VOA6_427117	Y020127

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Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-07		Collected	Received	Matrix	Basis
16WW23-230121-FD		01/21/23 11:55	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/02/23 06:43	VOA6_427117	Y020128
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:43	VOA6_427117	Y020128
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:43	VOA6_427117	Y020128
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:43	VOA6_427117	Y020128
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/02/23 06:43	VOA6_427117	Y020128
Trichloroethene	ug/L	0.64	J	0.20	1.0	1.0	1	02/02/23 06:43	VOA6_427117	Y020128
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 06:43	VOA6_427117	Y020128

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Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-08	Collected	Received	Matrix	Basis
16WW24-230121	01/21/23 12:40	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/02/23 16:55	VOA6_427191	X020210
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:55	VOA6_427191	X020210
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:55	VOA6_427191	X020210
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:55	VOA6_427191	X020210
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/02/23 16:55	VOA6_427191	X020210
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:55	VOA6_427191	X020210
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:55	VOA6_427191	X020210

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Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-09				Collected	Received	Matrix	Basis
16WW13-230121				01/21/23 13:25	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/03/23 14:21	VOA6_427296	X020312
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 14:21	VOA6_427296	X020312
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 14:21	VOA6_427296	X020312
cis-1,2-Dichloroethene	ug/L	610		1.0	5.0	5.0	5	02/02/23 18:20	VOA6_427191	X020214
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/03/23 14:21	VOA6_427296	X020312
Trichloroethene	ug/L	89		0.20	1.0	1.0	1	02/03/23 14:21	VOA6_427296	X020312
Vinyl chloride	ug/L	2.9		0.20	1.0	1.0	1	02/03/23 14:21	VOA6_427296	X020312

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Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-10	Collected	Received	Matrix	Basis
16WW42-230121	01/21/23 14:05	01/24/23 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/02/23 17:17	VOA6_427191	X020211
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 17:17	VOA6_427191	X020211
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 17:17	VOA6_427191	X020211
cis-1,2-Dichloroethene	ug/L	44		0.20	1.0	1.0	1	02/02/23 17:17	VOA6_427191	X020211
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/02/23 17:17	VOA6_427191	X020211
Trichloroethene	ug/L	27		0.20	1.0	1.0	1	02/02/23 17:17	VOA6_427191	X020211
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 17:17	VOA6_427191	X020211

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Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

HS23011294-11	Collected	Received	Matrix	Basis
Trip Blank-230121	01/21/23 00:00	01/24/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/01/23 13:24	VOA6_427080	X020109
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 13:24	VOA6_427080	X020109
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 13:24	VOA6_427080	X020109
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 13:24	VOA6_427080	X020109
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/01/23 13:24	VOA6_427080	X020109
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 13:24	VOA6_427080	X020109
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 13:24	VOA6_427080	X020109

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

VBLKW-230201	Collected	Received	Matrix	Basis
VBLKW-230201	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/01/23 23:21	VOA6_427117	Y020107
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/01/23 12:42	VOA6_427080	X020107
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 23:21	VOA6_427117	Y020107
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 12:42	VOA6_427080	X020107
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 23:21	VOA6_427117	Y020107
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 12:42	VOA6_427080	X020107
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 23:21	VOA6_427117	Y020107
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 12:42	VOA6_427080	X020107
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/01/23 23:21	VOA6_427117	Y020107
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/01/23 12:42	VOA6_427080	X020107
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 23:21	VOA6_427117	Y020107
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 12:42	VOA6_427080	X020107
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 23:21	VOA6_427117	Y020107
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/01/23 12:42	VOA6_427080	X020107

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

VBLKW-230202	Collected	Received	Matrix	Basis
VBLKW-230202	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/02/23 16:13	VOA6_427191	X020208
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:13	VOA6_427191	X020208
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:13	VOA6_427191	X020208
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:13	VOA6_427191	X020208
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/02/23 16:13	VOA6_427191	X020208
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:13	VOA6_427191	X020208
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/02/23 16:13	VOA6_427191	X020208

Form 1 - Organic Analysis Data Sheet

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

VBLKW-230203	Collected	Received	Matrix	Basis
VBLKW-230203	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	02/03/23 12:26	VOA6_427296	X020307
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:26	VOA6_427296	X020307
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:26	VOA6_427296	X020307
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:26	VOA6_427296	X020307
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	02/03/23 12:26	VOA6_427296	X020307
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:26	VOA6_427296	X020307
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	02/03/23 12:26	VOA6_427296	X020307

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Form 2

System Monitoring Compound Recovery

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427080

Volatiles by EPA 8260

CCV	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.71	50	99.4	80-120	
4-Bromofluorobenzene	51.62	50	103	80-120	
Dibromofluoromethane	45.62	50	91.2	80-120	
Toluene-d8	48.47	50	96.9	80-120	

CCB	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.3	50	98.6	80-120	
4-Bromofluorobenzene	51	50	102	80-120	
Dibromofluoromethane	45.53	50	91.1	80-120	
Toluene-d8	52.43	50	105	80-120	

VLCSW-230201	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	51.44	50	103	81-118	
4-Bromofluorobenzene	50.38	50	101	85-114	
Dibromofluoromethane	47.17	50	94.3	80-119	
Toluene-d8	47.75	50	95.5	89-112	

VBLKW-230201	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.87	50	99.7	81-118	
4-Bromofluorobenzene	50.86	50	102	85-114	
Dibromofluoromethane	46.27	50	92.5	80-119	
Toluene-d8	51.82	50	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427080

Volatiles by EPA 8260

HS23011294-11	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50	50	99.4	81-118	
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	46	50	91.9	80-119	
Toluene-d8	53	50	107	89-112	

HS23011397-02MS	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.57	50	99.1	81-118	
4-Bromofluorobenzene	52.08	50	104	85-114	
Dibromofluoromethane	44.8	50	89.6	80-119	
Toluene-d8	52.12	50	104	89-112	

HS23011397-02MSD	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.78	50	97.6	81-118	
4-Bromofluorobenzene	52.02	50	104	85-114	
Dibromofluoromethane	45.01	50	90.0	80-119	
Toluene-d8	52.1	50	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427117

Volatiles by EPA 8260

CCV	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	52.93	50	106	80-120	
4-Bromofluorobenzene	51.8	50	104	80-120	
Dibromofluoromethane	48.55	50	97.1	80-120	
Toluene-d8	48.34	50	96.7	80-120	

CCB	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.71	50	97.4	80-120	
4-Bromofluorobenzene	50.63	50	101	80-120	
Dibromofluoromethane	44.93	50	89.9	80-120	
Toluene-d8	51.83	50	104	80-120	

VLCSW-230201	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	54.02	50	108	81-118	
4-Bromofluorobenzene	50.78	50	102	85-114	
Dibromofluoromethane	47.83	50	95.7	80-119	
Toluene-d8	48.69	50	97.4	89-112	

VBLKW-230201	Analyzed 02/01/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.33	50	98.7	81-118	
4-Bromofluorobenzene	50.72	50	101	85-114	
Dibromofluoromethane	45.83	50	91.7	80-119	
Toluene-d8	51.58	50	103	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427117

Volatiles by EPA 8260

HS23011576-06MS	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.16	50	96.3	81-118	
4-Bromofluorobenzene	52.17	50	104	85-114	
Dibromofluoromethane	43.7	50	87.4	80-119	
Toluene-d8	51.8	50	104	89-112	

HS23011576-06MSD	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.85	50	97.7	81-118	
4-Bromofluorobenzene	52.51	50	105	85-114	
Dibromofluoromethane	44.29	50	88.6	80-119	
Toluene-d8	51.58	50	103	89-112	

HS23011294-06	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	97.2	81-118	
4-Bromofluorobenzene	51	50	103	85-114	
Dibromofluoromethane	46	50	91.3	80-119	
Toluene-d8	53	50	105	89-112	

HS23011294-07	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	96.9	81-118	
4-Bromofluorobenzene	51	50	103	85-114	
Dibromofluoromethane	46	50	91.2	80-119	
Toluene-d8	52	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427117

Volatiles by EPA 8260

HS23011294-05	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	97.7	81-118	
4-Bromofluorobenzene	51	50	101	85-114	
Dibromofluoromethane	45	50	90.9	80-119	
Toluene-d8	52	50	104	89-112	

HS23011294-04	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	98.4	81-118	
4-Bromofluorobenzene	51	50	103	85-114	
Dibromofluoromethane	45	50	90.0	80-119	
Toluene-d8	52	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427191

Volatiles by EPA 8260

CCV	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.4	50	101	80-120	
4-Bromofluorobenzene	51.2	50	102	80-120	
Dibromofluoromethane	46.85	50	93.7	80-120	
Toluene-d8	48.95	50	97.9	80-120	

CCB	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47.01	50	94.0	80-120	
4-Bromofluorobenzene	50.64	50	101	80-120	
Dibromofluoromethane	43.94	50	87.9	80-120	
Toluene-d8	52.58	50	105	80-120	

VLCSW-230202	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.74	50	101	81-118	
4-Bromofluorobenzene	50.78	50	102	85-114	
Dibromofluoromethane	45.19	50	90.4	80-119	
Toluene-d8	48.09	50	96.2	89-112	

VBLKW-230202	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.13	50	96.3	81-118	
4-Bromofluorobenzene	51.46	50	103	85-114	
Dibromofluoromethane	44.9	50	89.8	80-119	
Toluene-d8	52.85	50	106	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

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RunID
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Volatiles by EPA 8260

HS23011294-08	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	46	50	93.0	81-118	
4-Bromofluorobenzene	52	50	104	85-114	
Dibromofluoromethane	44	50	87.3	80-119	
Toluene-d8	52	50	103	89-112	

HS23011294-10	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49	50	97.1	81-118	
4-Bromofluorobenzene	52	50	104	85-114	
Dibromofluoromethane	45	50	89.5	80-119	
Toluene-d8	52	50	104	89-112	

HS23011294-01	Analyzed 02/02/23		Conc Units µg/L		DF 5
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	250	250	98.0	81-118	
4-Bromofluorobenzene	260	250	103	85-114	
Dibromofluoromethane	230	250	90.1	80-119	
Toluene-d8	260	250	106	89-112	

HS23011294-09	Analyzed 02/02/23		Conc Units µg/L		DF 5
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	250	250	98.1	81-118	
4-Bromofluorobenzene	250	250	102	85-114	
Dibromofluoromethane	230	250	90.2	80-119	
Toluene-d8	260	250	103	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427191

Volatiles by EPA 8260

HS23011294-08MS	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47.65	50	95.3	81-118	
4-Bromofluorobenzene	52.23	50	104	85-114	
Dibromofluoromethane	43.12	50	86.2	80-119	
Toluene-d8	51.75	50	103	89-112	

HS23011294-08MSD	Analyzed 02/02/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47.49	50	95.0	81-118	
4-Bromofluorobenzene	52.87	50	106	85-114	
Dibromofluoromethane	43.1	50	86.2	80-119	
Toluene-d8	52.02	50	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427296

Volatiles by EPA 8260

CCV	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.02	50	96.0	80-120	
4-Bromofluorobenzene	50.62	50	101	80-120	
Dibromofluoromethane	44.48	50	89.0	80-120	
Toluene-d8	48.24	50	96.5	80-120	

CCB	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47.32	50	94.6	80-120	
4-Bromofluorobenzene	51.44	50	103	80-120	
Dibromofluoromethane	44.49	50	89.0	80-120	
Toluene-d8	52.35	50	105	80-120	

VLCSW-230203	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.56	50	99.1	81-118	
4-Bromofluorobenzene	49.54	50	99.1	85-114	
Dibromofluoromethane	45.61	50	91.2	80-119	
Toluene-d8	47.15	50	94.3	89-112	

VBLKW-230203	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47.4	50	94.8	81-118	
4-Bromofluorobenzene	51.68	50	103	85-114	
Dibromofluoromethane	44.25	50	88.5	80-119	
Toluene-d8	52.32	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427296

Volatiles by EPA 8260

HS23011294-02	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	96.0	81-118	
4-Bromofluorobenzene	52	50	104	85-114	
Dibromofluoromethane	45	50	89.9	80-119	
Toluene-d8	52	50	104	89-112	

HS23011294-09	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	31	50	62.8	81-118	*
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	29	50	58.9	80-119	*
Toluene-d8	53	50	107	89-112	

HS23011294-01	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	96.3	81-118	
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	45	50	89.2	80-119	
Toluene-d8	52	50	105	89-112	

HS23011294-03	Analyzed 02/03/23		Conc Units µg/L		DF 100
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	4,800	5000	95.4	81-118	
4-Bromofluorobenzene	5,200	5000	104	85-114	
Dibromofluoromethane	4,500	5000	89.4	80-119	
Toluene-d8	5,200	5000	105	89-112	
1,2-Dichloroethane-d4	48,000	50000	96.6	81-118	
4-Bromofluorobenzene	52,000	50000	105	85-114	
Dibromofluoromethane	45,000	50000	90.9	80-119	
Toluene-d8	52,000	50000	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427296

Volatiles by EPA 8260

HS23011233-07MS	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.2	50	96.4	81-118	
4-Bromofluorobenzene	52.37	50	105	85-114	
Dibromofluoromethane	44.06	50	88.1	80-119	
Toluene-d8	51.86	50	104	89-112	

HS23011233-07MSD	Analyzed 02/03/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.01	50	96.0	81-118	
4-Bromofluorobenzene	52.74	50	105	85-114	
Dibromofluoromethane	43.79	50	87.6	80-119	
Toluene-d8	52.04	50	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

		HS23011397-02		HS23011397-02MS				HS23011397-02MSD						
Sample Matrix	Aqueous	**Run Date**	02/01/23	02/01/23				02/01/23						
Units	µg/L	**Run Time**	13:45	14:48				15:09						
		Data File	X020110.D	X020113.D				X020114.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1	0	19.50	20.00	98		19.2	20.00	96		20	1.50	
1,1-Dichloroethene	71-131	1	0	18.29	20.00	91		17.87	20.00	89		20	2.30	
1,2-Dichloroethane	73-128	1	0	20.66	20.00	103		21.08	20.00	105		20	2.00	
cis-1,2-Dichloroethene	78-123	1	0	18.33	20.00	92		17.79	20.00	89		20	3.00	
Methylene chloride	74-124	1	0	16.83	20.00	84		16.43	20.00	82		20	2.40	
Trichloroethene	79-123	1	2.228	24.26	20.00	110		23.11	20.00	104		20	4.90	
Vinyl chloride	58-137	1	0	16.55	20.00	83		15.44	20.00	77		20	6.90	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

		HS23011576-06		HS23011576-06MS				HS23011576-06MSD						
Sample Matrix	Aqueous	**Run Date**	02/02/23	02/02/23				02/02/23						
Units	µg/L	**Run Time**	01:27	01:48				02:09						
		Data File	Y020113.D	Y020114.D				Y020115.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1	0	18.81	20.00	94		18.36	20.00	92		20	2.50	
1,1-Dichloroethene	71-131	1	0	17.25	20.00	86		16.33	20.00	82		20	5.50	
1,2-Dichloroethane	73-128	1	0	20.20	20.00	101		20.19	20.00	101		20	0	
cis-1,2-Dichloroethene	78-123	1	0	16.53	20.00	83		16.11	20.00	81		20	2.60	
Methylene chloride	74-124	1	0	15.78	20.00	79		15.24	20.00	76		20	3.50	
Trichloroethene	79-123	1	4.062	24.59	20.00	103		23.22	20.00	96		20	5.70	
Vinyl chloride	58-137	1	0	15.14	20.00	76		14.52	20.00	73		20	4.20	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

16WW24-230121		HS23011294-08		HS23011294-08MS				HS23011294-08MSD						
Sample Matrix Aqueous		**Run Date**	02/02/23	02/02/23				02/02/23						
Units µg/L		**Run Time**	16:55	19:23				19:44						
		Data File	X020210.D	X020217.D				X020218.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1	0	18.28	20.00	91		18.61	20.00	93		20	1.80	
1,1-Dichloroethene	71-131	1	0	16.40	20.00	82		15.86	20.00	79		20	3.30	
1,2-Dichloroethane	73-128	1	0	20.19	20.00	101		19.66	20.00	98		20	2.70	
cis-1,2-Dichloroethene	78-123	1	0	16.74	20.00	84		16.3	20.00	82		20	2.70	
Methylene chloride	74-124	1	0	16.13	20.00	81		15.39	20.00	77		20	4.70	
Trichloroethene	79-123	1	0	21.32	20.00	107		20.13	20.00	101		20	5.70	
Vinyl chloride	58-137	1	0	15.24	20.00	76		14.73	20.00	74		20	3.40	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

		HS23011233-07		HS23011233-07MS				HS23011233-07MSD						
Sample Matrix	Aqueous	**Run Date**	02/03/23	02/03/23				02/03/23						
Units	µg/L	**Run Time**	13:50	15:25				15:46						
		Data File	X020311.D	X020315.D				X020316.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,2-Trichloroethane	80-119	1	0	19.07	20.00	95		19.19	20.00	96		20	0.600	
1,1-Dichloroethene	71-131	1	0	16.88	20.00	84		16.18	20.00	81		20	4.30	
1,2-Dichloroethane	73-128	1	0	19.86	20.00	99		20.39	20.00	102		20	2.60	
cis-1,2-Dichloroethene	78-123	1	0	17.95	20.00	90		17.48	20.00	87		20	2.70	
Methylene chloride	74-124	1	0	16.45	20.00	82		15.76	20.00	79		20	4.30	
Trichloroethene	79-123	1	0	21.88	20.00	109		20.91	20.00	105		20	4.50	
Vinyl chloride	58-137	1	0	15.88	20.00	79		15.18	20.00	76		20	4.50	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

VOA6_427080		QC ID	VLCSW-230201			
QC Matrix Aqueous	Units	Run Date	02/01/23			
	ug/L	Run Time	12:00			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	19.06	95		
1,1-Dichloroethene	71-131	20	19.57	98		
1,2-Dichloroethane	73-128	20	22.53	113		
1,2-Dichloroethane-d4	81-118	50	51.44	103		
4-Bromofluorobenzene	85-114	50	50.38	101		
cis-1,2-Dichloroethene	78-123	20	19.58	98		
Dibromofluoromethane	80-119	50	47.17	94		
Methylene chloride	74-124	20	19.22	96		
Toluene-d8	89-112	50	47.75	96		
Trichloroethene	79-123	20	21.38	107		
Vinyl chloride	58-137	20	20.5	103		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

VOA6_427191		QC ID	VLCSW-230202			
QC Matrix Aqueous	Units	Run Date	02/02/23			
	ug/L	Run Time	15:10			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	20.71	104		
1,1-Dichloroethene	71-131	20	18.71	94		
1,2-Dichloroethane	73-128	20	23.27	116		
1,2-Dichloroethane-d4	81-118	50	50.74	101		
4-Bromofluorobenzene	85-114	50	50.78	102		
cis-1,2-Dichloroethene	78-123	20	19.27	96		
Dibromofluoromethane	80-119	50	45.19	90		
Methylene chloride	74-124	20	19.48	97		
Toluene-d8	89-112	50	48.09	96		
Trichloroethene	79-123	20	22.24	111		
Vinyl chloride	58-137	20	20.11	101		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

VOA6_427296		QC ID	VLCSW-230203			
QC Matrix Aqueous	Units	Run Date	02/03/23			
	ug/L	Run Time	11:44			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,2-Trichloroethane	80-119	20	20.24	101		
1,1-Dichloroethene	71-131	20	16.88	84		
1,2-Dichloroethane	73-128	20	22.13	111		
1,2-Dichloroethane-d4	81-118	50	49.56	99		
4-Bromofluorobenzene	85-114	50	49.54	99		
cis-1,2-Dichloroethene	78-123	20	18.61	93		
Dibromofluoromethane	80-119	50	45.61	91		
Methylene chloride	74-124	20	19.26	96		
Toluene-d8	89-112	50	47.15	94		
Trichloroethene	79-123	20	20.51	103		
Vinyl chloride	58-137	20	17.84	89		

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230201	X020107.D	02/01/23 12:42	VOA6_427080
VLCSW-230201	LCS	VLCSW-230201	X020105.D	02/01/23 12:00	VOA6_427080
Trip Blank-230121	SAMP	HS23011294-11	X020109.D	02/01/23 13:24	VOA6_427080
BatchQC	MS	HS23011397-02MS	X020113.D	02/01/23 14:48	VOA6_427080
BatchQC	MSD	HS23011397-02MSD	X020114.D	02/01/23 15:09	VOA6_427080

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230201	Y020107.D	02/01/23 23:21	VOA6_427117
VLCSW-230201	LCS	VLCSW-230201	Y020105.D	02/01/23 22:38	VOA6_427117
BatchQC	MS	HS23011576-06MS	Y020114.D	02/02/23 01:48	VOA6_427117
BatchQC	MSD	HS23011576-06MSD	Y020115.D	02/02/23 02:09	VOA6_427117
16WW23-230121	SAMP	HS23011294-06	Y020127.D	02/02/23 06:22	VOA6_427117
16WW23-230121-FD	SAMP	HS23011294-07	Y020128.D	02/02/23 06:43	VOA6_427117
16WW43-230121	SAMP	HS23011294-05	Y020129.D	02/02/23 07:04	VOA6_427117
16WW27-230121	SAMP	HS23011294-04	Y020130.D	02/02/23 07:25	VOA6_427117

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230202	X020208.D	02/02/23 16:13	VOA6_427191
VLCSW-230202	LCS	VLCSW-230202	X020205.D	02/02/23 15:10	VOA6_427191
16WW24-230121	SAMP	HS23011294-08	X020210.D	02/02/23 16:55	VOA6_427191
16WW42-230121	SAMP	HS23011294-10	X020211.D	02/02/23 17:17	VOA6_427191
16WW40-230121	SAMP	HS23011294-01	X020212.D	02/02/23 17:38	VOA6_427191
16WW13-230121	SAMP	HS23011294-09	X020214.D	02/02/23 18:20	VOA6_427191
16WW24-230121	MS	HS23011294-08MS	X020217.D	02/02/23 19:23	VOA6_427191
16WW24-230121	MSD	HS23011294-08MSD	X020218.D	02/02/23 19:44	VOA6_427191

Form 4 - Method Blank Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230203	X020307.D	02/03/23 12:26	VOA6_427296
VLCSW-230203	LCS	VLCSW-230203	X020305.D	02/03/23 11:44	VOA6_427296
16EW08-230121	SAMP	HS23011294-02	X020308.D	02/03/23 12:47	VOA6_427296
16WW13-230121	SAMP	HS23011294-09	X020312.D	02/03/23 14:21	VOA6_427296
16WW40-230121	SAMP	HS23011294-01	X020313.D	02/03/23 14:42	VOA6_427296
16EW04-230121	SAMP	HS23011294-03	X020314.D	02/03/23 15:04	VOA6_427296
BatchQC	MS	HS23011233-07MS	X020315.D	02/03/23 15:25	VOA6_427296
BatchQC	MSD	HS23011233-07MSD	X020316.D	02/03/23 15:46	VOA6_427296
16EW04-230121	SAMP	HS23011294-03	X020317.D	02/03/23 16:07	VOA6_427296

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Form 5

Instrument Performance Check

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_424237

Tune File X121601.D 12/16/22 11:17

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.4)
75	30.0 - 60.0% of mass 95	46.1 (46.1)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.2 (7.16)
173	Less than 2.0% of mass 174	0.8 (0.897) 1
174	50.0 - 120.0% of mass 95	89 (89)
175	4.0 - 9.0% of mass 174	7 (7.82) 1
176	93.0 - 101.0% of mass 174	87.4 (98.2) 1
177	5.0 - 9.0% of mass 176	5.8 (6.59) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	ICAL1	12/16/22 11:38	X121602	VSTD000.25
2	ICAL2	12/16/22 12:20	X121603	VSTD000.5
3	ICAL3	12/16/22 12:41	X121604	VSTD001
4	ICAL4	12/16/22 13:02	X121605	VSTD002
5	ICAL5	12/16/22 13:23	X121606	VSTD005
6	ICAL6	12/16/22 13:43	X121607	VSTD020
7	ICAL7	12/16/22 14:04	X121608	VSTD050
8	ICAL8	12/16/22 14:25	X121609	VSTD100
9	ICAL9	12/16/22 14:46	X121610	VSTD150
10	ICAL	12/16/22 15:07	X121611	VSTD200
11	ICV	12/16/22 15:49	X121613	CCV

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427080

Tune File X020101.D 02/01/23 10:36

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	20.1 (20.1)
75	30.0 - 60.0% of mass 95	50.7 (50.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.7 (7.67)
173	Less than 2.0% of mass 174	0.6 (0.699) 1
174	50.0 - 120.0% of mass 95	82.7 (82.7)
175	4.0 - 9.0% of mass 174	6.7 (8.11) 1
176	93.0 - 101.0% of mass 174	82.6 (99.8) 1
177	5.0 - 9.0% of mass 176	5.8 (7) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	02/01/23 11:18	X020103	CCV
2	CCB	02/01/23 11:39	X020104	CCB
3	LCS	02/01/23 12:00	X020105	VLCSW-230201
4	MBLK	02/01/23 12:42	X020107	VBLKW-230201
5	SAMP	02/01/23 13:24	X020109	Trip Blank-230121
6	MS	02/01/23 14:48	X020113	ZZZZZZMS
7	MSD	02/01/23 15:09	X020114	ZZZZZZMSD
8	CCV_EN	02/01/23 20:54	X020130	CCV-END

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427117

Tune File Y020101.D 02/01/23 21:15

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.8 (18.8)
75	30.0 - 60.0% of mass 95	48.8 (48.8)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.11)
173	Less than 2.0% of mass 174	0.8 (0.956) 1
174	50.0 - 120.0% of mass 95	81.3 (81.3)
175	4.0 - 9.0% of mass 174	7 (8.59) 1
176	93.0 - 101.0% of mass 174	79.1 (97.2) 1
177	5.0 - 9.0% of mass 176	6.1 (7.66) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	02/01/23 21:56	Y020103	CCV
2	CCB	02/01/23 22:17	Y020104	CCB
3	LCS	02/01/23 22:38	Y020105	VLCSW-230201
4	MBLK	02/01/23 23:21	Y020107	VBLKW-230201
5	MS	02/02/23 01:48	Y020114	ZZZZZZMS
6	MSD	02/02/23 02:09	Y020115	ZZZZZZMSD
7	SAMP	02/02/23 06:22	Y020127	16WW23-230121
8	SAMP	02/02/23 06:43	Y020128	16WW23-230121-FD
9	SAMP	02/02/23 07:04	Y020129	16WW43-230121
10	SAMP	02/02/23 07:25	Y020130	16WW27-230121
11	CCV_EN	02/02/23 07:46	Y020131	CCV-END

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427191

Tune File X020201.D 02/02/23 13:46

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	17.5 (17.5)
75	30.0 - 60.0% of mass 95	46.9 (46.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.11)
173	Less than 2.0% of mass 174	0.4 (0.507) 1
174	50.0 - 120.0% of mass 95	82.6 (82.6)
175	4.0 - 9.0% of mass 174	6.5 (7.88) 1
176	93.0 - 101.0% of mass 174	81 (98.1) 1
177	5.0 - 9.0% of mass 176	5.2 (6.38) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	02/02/23 14:28	X020203	CCV
2	CCB	02/02/23 14:49	X020204	CCB
3	LCS	02/02/23 15:10	X020205	VLCSW-230202
4	MBLK	02/02/23 16:13	X020208	VBLKW-230202
5	SAMP	02/02/23 16:55	X020210	16WW24-230121
6	SAMP	02/02/23 17:17	X020211	16WW42-230121
7	SAMP	02/02/23 17:38	X020212	16WW40-230121
8	SAMP	02/02/23 18:20	X020214	16WW13-230121
9	MS	02/02/23 19:23	X020217	HS23011294-08MS
10	MSD	02/02/23 19:44	X020218	HS23011294-08MSD
11	CCV_EN	02/03/23 00:17	X020231	CCV-END

Form 5 - Instrument Performance Check

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427296

Tune File X020301.D 02/03/23 10:20

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	17.6 (17.6)
75	30.0 - 60.0% of mass 95	49.1 (49.1)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.6 (6.59)
173	Less than 2.0% of mass 174	0.5 (0.677) 1
174	50.0 - 120.0% of mass 95	80.5 (80.5)
175	4.0 - 9.0% of mass 174	6.1 (7.55) 1
176	93.0 - 101.0% of mass 174	79.2 (98.4) 1
177	5.0 - 9.0% of mass 176	5 (6.33) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	02/03/23 11:02	X020303	CCV
2	CCB	02/03/23 11:23	X020304	CCB
3	LCS	02/03/23 11:44	X020305	VLCSW-230203
4	MBLK	02/03/23 12:26	X020307	VBLKW-230203
5	SAMP	02/03/23 12:47	X020308	16EW08-230121
6	SAMP	02/03/23 14:21	X020312	16WW13-230121
7	SAMP	02/03/23 14:42	X020313	16WW40-230121
8	SAMP	02/03/23 15:04	X020314	16EW04-230121
9	MS	02/03/23 15:25	X020315	ZZZZZZMS
10	MSD	02/03/23 15:46	X020316	ZZZZZZMSD
11	SAMP	02/03/23 16:07	X020317	16EW04-230121
12	CCV_EN	02/03/23 20:40	X020330	CCV-END

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Form 6

Initial Calibration Data

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138
ICAL End Date 16-DEC-2022 1507

Calibration Files

Level 1 ..voa6.i\X221216.b\X121602.D
Level 2 ..voa6.i\X221216.b\X121603.D
Level 3 ..voa6.i\X221216.b\X121604.D
Level 4 ..voa6.i\X221216.b\X121605.D
Level 5 ..voa6.i\X221216.b\X121606.D
Level 6 ..voa6.i\X221216.b\X121607.D
Level 7 ..voa6.i\X221216.b\X121608.D
Level 8 ..voa6.i\X221216.b\X121609.D
Level 9 ..voa6.i\X221216.b\X121610.D
Level 10 ..voa6.i\X221216.b\X121611.D

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Dichlorodifluoromethane	NE 160392	1990 309019	2911 476130	6239 635808	15008	63382	LINR	0.00786	0.35247		0.99971	
Chloromethane	NE 192710	2466 388163	3670 621048	8057 865151	19623	72324	LINR	0.04423	0.47332		0.99747	
Propionitrile	NE 0.04851	0.06018 0.04917	0.05265 0.05178	0.04739 0.05178	0.05114	0.04656	AVRG		0.05102		7.91502	
Vinyl Chloride	NE 0.44103	0.52268 0.42953	0.40472 0.44923	0.39786 0.45909	0.42164	0.40520	AVRG		0.43678		8.81916	
Bromomethane	NE 139689	1893 284165	3293 470318	5996 NE	15112	52034	LINR	0.03529	0.34244		0.99519	
Chloroethane	NE 0.29447	0.35820 0.28714	0.27936 0.30494	0.31044 0.30410	0.31436	0.28309	AVRG		0.30401		7.80750	
Trichlorofluoromethane	NE 0.60756	0.71207 0.59817	0.54474 0.64605	0.57316 0.65074	0.59068	0.57785	AVRG		0.61122		8.28859	
Acrolein	NE 27445	440 60756	761 96139	1317 125874	2699	12279	LINR	0.05644	0.03519		0.99833	
Acetone	NE 124798	2669 243517	4787 373504	7041 514105	17632	50987	LINR	-0.00069	0.14025		0.99910	
1,1-Dichloroethene	NE 0.36912	0.44142 0.36226	0.35953 0.38517	0.37590 0.39076	0.37389	0.35725	AVRG		0.37948		6.80558	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isobutyl Alcohol	NE 0.05462	0.05610 0.05559	0.05239 0.05946	0.05650 0.05952	0.05728	0.05469	AVRG		0.05624		4.10209	
Acetonitrile	NE 0.04430	0.04776 0.04552	0.04645 0.04791	0.04253 0.04736	0.04357	0.04417	AVRG		0.04551		4.32823	
Allyl Chloride	NE 0.81324	0.99118 0.83169	0.95202 0.86799	0.81682 0.86396	0.84304	0.82034	AVRG		0.86670		7.30464	
Iodomethane	NE 455792	2397 958603	3865 1554547	8702 2193685	26708	143457	QUAD	0.06641	2.01333	-0.08031	0.99956	
Acrylonitrile	NE 0.12970	0.12113 0.12956	0.12536 0.13857	0.12482 0.13997	0.12256	0.12666	AVRG		0.12870		5.15060	
Methylene Chloride	NE 0.49311	0.63666 0.46611	0.59459 0.48892	0.50364 0.47907	0.50885	0.51372	AVRG		0.52052		10.92514	
Methyl tert-butyl ether	NE 1.16844	1.26574 1.18584	1.39027 1.23813	1.27259 1.24075	1.24993	1.16729	AVRG		1.24211		5.52745	
Carbon Disulfide	NE 0.97542	1.07494 0.97088	1.00609 1.02392	0.95722 1.06178	0.94769	0.91773	AVRG		0.99285		5.32584	
trans-1,2-Dichloroethene	NE 0.41851	0.48064 0.41454	0.42427 0.43221	0.38965 0.43554	0.42173	0.40526	AVRG		0.42470		5.92187	
Vinyl Acetate	NE 1.07506	1.09845 1.07519	0.99054 1.16529	1.06368 1.16741	1.12321	1.05445	AVRG		1.09037		5.13969	
1,1-Dichloroethane	NE 0.72125	0.83949 0.70504	0.80145 0.74074	0.69997 0.74459	0.75023	0.70550	AVRG		0.74536		6.34771	
Chloroprene	NE 0.16145	0.19503 0.16116	0.18721 0.16823	0.17124 0.17481	0.15874	0.15219	AVRG		0.17001		8.17551	

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Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
2-Butanone	NE 130179	1292 264221	2498 407629	5418 555896	11771	47830	LINR	0.06050	0.15346		0.99924	
Methacrylonitrile	NE 0.32328	0.44770 0.32565	0.36475 0.34081	0.34993 0.34351	0.34840	0.34235	AVRG		0.35404		10.52608	
2,2-Dichloropropane	NE 0.62063	0.70167 0.61027	0.65466 0.64008	0.60521 0.65162	0.61866	0.59289	AVRG		0.63286		5.25207	
cis-1,2-Dichloroethene	NE 0.49985	0.61803 0.48778	0.49622 0.51710	0.52999 0.51455	0.50446	0.48374	AVRG		0.51686		7.86616	
Chloroform	NE 0.81023	0.87547 0.78725	0.86252 0.84612	0.85352 0.84457	0.84666	0.79238	AVRG		0.83541		3.73708	
Bromochloromethane	NE 0.26364	0.32093 0.26287	0.29857 0.28290	0.28124 0.28282	0.29319	0.26077	AVRG		0.28299		6.91423	
1,1,1-Trichloroethane	NE 0.65703	0.76105 0.64156	0.65666 0.67604	0.60049 0.69720	0.64387	0.63152	AVRG		0.66283		6.90392	
1,1-Dichloropropene	NE 0.37084	0.35889 0.35979	0.34245 0.36734	0.33027 0.37324	0.34789	0.34406	AVRG		0.35497		4.12237	
1,2-Dichloroethane	NE 0.39909	0.45501 0.40154	0.40587 0.41082	0.39492 0.41030	0.41104	0.39842	AVRG		0.40967		4.39762	
Carbon Tetrachloride	NE 0.36348	0.40179 0.35355	0.45347 0.36349	0.40515 0.37429	0.35265	0.34370	AVRG		0.37906		9.25223	
Benzene	NE 1.17241	1.34410 1.15323	1.19304 1.17461	1.18322 1.18197	1.19608	1.14722	AVRG		1.19399		4.90945	
Trichloroethene	NE 0.33750	0.37562 0.33140	0.31723 0.33891	0.33885 0.34649	0.33109	0.33079	AVRG		0.33865		4.73809	

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Bromodichloromethane	NE	0.53078	0.45893	0.43689	0.42833	0.42563						
	0.42913	0.42602	0.44706	0.45009			AVRG		0.44810		7.41292	
Methyl Methacrylate	NE	0.38746	0.34921	0.33881	0.33548	0.30606						
	0.32238	0.32465	0.34726	0.35704			AVRG		0.34093		6.87301	
2-Chloroethylvinyl ether	NE	0.13531	0.11670	0.12141	0.12912	0.13108						
	0.13057	0.12541	0.12799	0.12973			AVRG		0.12748		4.37734	
1,2-Dichloropropane	NE	0.35613	0.33560	0.29692	0.31629	0.30391						
	0.31044	0.30521	0.31542	0.31856			AVRG		0.31761		5.71516	
2-Nitropropane	NE	1.05598	0.76159	0.80915	0.77468	0.75211						
	0.73644	0.73807	0.78445	0.80253			AVRG		0.80167		12.32619	
Dibromomethane	NE	0.25085	0.21183	0.22317	0.21081	0.20954						
	0.20672	0.20317	0.21324	0.21357			AVRG		0.21588		6.58330	
4-Methyl-2-Pentanone	NE	0.28987	0.26418	0.28502	0.26684	0.26684						
	0.25814	0.25156	0.26114	0.26166			AVRG		0.26725		4.64865	
cis-1,3-Dichloropropene	NE	0.53732	0.47650	0.50179	0.51804	0.52075						
	0.52860	0.53368	0.55605	0.56353			AVRG		0.52625		5.04185	
Ethyl Methacrylate	NE	0.28138	0.24077	0.23910	0.20135	0.21276						
	0.20804	0.22619	0.24786	0.26163			AVRG		0.23545		11.14205	
Toluene	NE	1.60765	1.37997	1.37463	1.36957	1.31273						
	1.36202	1.32088	1.35198	1.35870			AVRG		1.38201		6.34459	
trans-1,3-Dichloropropene	NE	0.44236	0.39493	0.40065	0.41433	0.42619						
	0.44682	0.44877	0.47075	0.48573			AVRG		0.43673		7.01005	
2-Hexanone	NE	0.19991	0.17409	0.17972	0.18386	0.17978						
	0.17839	0.17192	0.18312	0.18566			AVRG		0.18183		4.45920	

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1,1,2-Trichloroethane	NE 0.26479	0.32419 0.25654	0.26954 0.26825	0.29087 0.26649	0.28491	0.26973	AVRG		0.27726		7.37510	
1,3-Dichloropropane	NE 0.53007	0.62065 0.51166	0.55587 0.53587	0.54217 0.53590	0.54663	0.53274	AVRG		0.54573		5.60982	
Dibromochloromethane	NE 0.39906	0.43810 0.39075	0.38701 0.40792	0.39402 0.40793	0.38762	0.38903	AVRG		0.40016		4.08851	
Tetrachloroethene	NE 0.29836	0.33024 0.28012	0.25660 0.28506	0.28292 0.28889	0.26322	0.28810	AVRG		0.28594		7.36821	
1,2-Dibromoethane	NE 0.35151	0.36263 0.33998	0.33509 0.35512	0.32714 0.35096	0.35422	0.34322	AVRG		0.34665		3.22017	
1-Chlorohexane	NE 0.24556	0.26597 0.23682	0.22998 0.25047	0.21386 0.26558	0.22191	0.24457	AVRG		0.24163		7.44215	
Chlorobenzene	NE 0.95622	1.20054 0.92158	0.96715 0.96470	0.94773 0.97511	0.95913	0.93014	AVRG		0.98026		8.61127	
1,1,1,2-Tetrachloroethane	NE 0.36060	0.42477 0.35457	0.34549 0.36940	0.36191 0.37188	0.34596	0.34861	AVRG		0.36480		6.70616	
Ethylbenzene	NE 0.47797	0.47482 0.45902	0.43893 0.46986	0.45503 0.47447	0.45171	0.45394	AVRG		0.46175		2.86128	
m,p-Xylenes	NE 0.60205	0.69860 0.58346	0.55710 0.60071	0.56286 0.61493	0.56012	0.57743	AVRG		0.59525		7.35638	
o-Xylene	NE 0.59049	0.68372 0.57562	0.51381 0.60058	0.56977 0.61516	0.56849	0.56994	AVRG		0.58751		7.79066	
Styrene	NE 1.03116	1.02806 1.01266	0.79991 1.07651	0.88633 1.09594	0.95404	0.97800	AVRG		0.98473		9.52837	

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Bromoform	NE	0.31195	0.25221	0.26817	0.25683	0.26696						
	0.27805	0.27584	0.29222	0.29278			AVRG		0.27722		6.87336	
Isopropylbenzene	NE	1.35706	1.16805	1.25967	1.30607	1.32939						
	1.41077	1.36357	1.42773	1.45784			AVRG		1.34224		6.69875	
1,1,2,2-Tetrachloroethane	NE	0.91828	0.84470	0.83187	0.83648	0.79018						
	0.74007	0.71754	0.75363	0.73962			AVRG		0.79693		8.24435	
1,2,3-Trichloropropane	NE	0.58047	0.56626	0.53238	0.58048	0.54015						
	0.53505	0.52761	0.60583	0.53897			AVRG		0.55636		4.97536	
trans-1,4-Dichloro-2-butene	NE	0.12274	0.09213	0.10381	0.10162	0.10094						
	0.10800	0.10845	0.11623	0.11751			AVRG		0.10794		8.88299	
n-Propylbenzene	NE	3.20938	2.13608	2.47845	2.73904	2.83806						
	2.90611	2.78733	2.90643	2.92515			AVRG		2.76956		11.03336	
Bromobenzene	NE	0.90477	0.79060	0.83045	0.81066	0.82521						
	0.80056	0.78064	0.82147	0.81857			AVRG		0.82033		4.35370	
1,3,5-Trimethylbenzene	NE	2.06484	1.68256	1.97796	2.03460	2.07048						
	2.12398	2.07652	2.18148	2.20122			AVRG		2.04596		7.47801	
2-Chlorotoluene	NE	1.93144	1.77508	1.90257	1.85141	1.80074						
	1.79455	1.71779	1.79669	1.78644			AVRG		1.81741		3.65582	
4-Chlorotoluene	NE	2.19766	1.72811	1.99610	2.10678	2.06499						
	2.09570	2.05624	2.19099	2.20989			AVRG		2.07183		7.13984	
tert-Butylbenzene	NE	1.83685	1.33195	1.56610	1.66625	1.69957						
	1.74647	1.66742	1.77236	1.78580			AVRG		1.67475		9.03914	
1,2,4-Trimethylbenzene	NE	2.44261	1.84882	2.01055	2.12502	2.14371						
	2.18278	2.12445	2.25368	2.24326			AVRG		2.15277		7.66012	

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sec-Butylbenzene	NE 2.38144	2.28219 2.30322	1.76441 2.43114	1.95855 2.46321	2.17705	2.29365	AVRG		2.22832		10.32115	
p-Isopropyltoluene	NE 2.16946	2.11113 2.07989	1.42476 2.19272	1.76888 2.20460	1.95504	2.06459	AVRG		1.99679		12.72950	
1,3-Dichlorobenzene	NE 1.39279	1.34465 1.34586	1.21323 1.42324	1.32549 1.42237	1.40186	1.38449	AVRG		1.36155		4.82043	
1,4-Dichlorobenzene	NE 1.45712	1.63128 1.44362	1.40441 1.52301	1.45614 1.52190	1.47766	1.45673	AVRG		1.48576		4.44368	
Benzyl Chloride	NE 472387	3642 1009234	4632 1650494	12783 2286488	35254	163895	LINR	0.05387	0.82700		0.99832	
n-Butylbenzene	NE 696355	5149 1425779	8459 2293126	19853 3216534	54831	248190	LINR	0.03551	1.99525		0.99890	
1,2-Dichlorobenzene	NE 1.39065	1.58241 1.36532	1.22790 1.44207	1.34058 1.43128	1.42827	1.41177	AVRG		1.40225		6.73504	
1,2-Dibromo-3-Chloropropane	NE 48660	441 94321	778 149691	1619 205063	4911	18635	LINR	0.00184	0.12764		0.99948	
1,2,4-Trichlorobenzene	NE 0.95146	0.91627 0.90293	0.65608 0.94400	0.83350 0.95022	0.89445	0.91558	AVRG		0.88494		10.53488	
Hexachlorobutadiene	NE 155390	1477 299042	1928 466452	3970 654615	13454	55912	QUAD	-0.00107	2.58308	-0.07816	0.99966	
Naphthalene	NE 2.14094	2.01970 2.06230	1.60683 2.15450	1.85985 2.12714	2.04153	2.10842	AVRG		2.01347		8.78393	
1,2,3-Trichlorobenzene	NE 0.85880	1.02696 0.83163	0.68341 0.85478	0.79977 0.84995	0.84958	0.87304	AVRG		0.84755		10.42886	

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Ethyl Acetate	NE 0.37280	0.44748 0.34980	0.34909 0.38488	0.40657 0.39192	0.39985	0.40902	AVRG		0.39016		7.92750	
Methyl Acrylate	NE 0.33014	0.38247 0.33914	0.34243 0.35741	0.29817 0.35867	0.33173	0.31494	AVRG		0.33946		7.36740	
n-Butanol	NE 54418	622 124057	1171 210842	2004 297334	4891	15012	QUAD	0.80435	158	-58.97368	0.99813	*
Ethyl Acrylate	NE 420886	NE 862071	NE 1358300	9825 1836030	26414	172044	LINR	0.05859	1.02468		0.99901	*
Cyclohexanone	NE 0.01934	0.07093 0.01945	0.03374 0.01993	0.02556 0.01966	0.01884	0.01912	AVRG		0.02740		62.21369	*
1,4-Dioxane	0.00463 0.00443	0.00501 0.00442	0.00455 0.00480	0.00386 0.00497	0.00466	0.00438	AVRG		0.00457		7.29408	
n-Hexane	NE 0.39852	0.41368 0.36338	0.26016 0.39788	0.32309 0.40267	0.32437	0.35631	AVRG		0.36001		13.97418	
Freon TF	NE 0.37622	0.40111 0.36030	0.37263 0.38547	0.33005 0.39624	0.32940	0.35185	AVRG		0.36703		7.16337	
Methyl Acetate	NE 0.21071	0.27499 0.21615	0.23617 0.22455	0.22728 0.22667	0.19900	0.20937	AVRG		0.22499		9.73149	
Methylcyclohexane	NE 0.60749	0.69525 0.62521	0.49917 0.65111	0.58500 0.65095	0.56389	0.63030	AVRG		0.61204		9.36456	
Isopropyl alcohol	NE 0.01716	0.02240 0.01767	0.01652 0.01919	0.01536 0.01934	0.01833	0.01677	AVRG		0.01808		11.41496	
Amyl alcohol	NE 0.00433	NE 0.00498	NE 0.00582	NE 0.00605	0.00196	0.00315	AVRG		0.00438		36.19033	*

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Allyl alcohol	NE 0.01993	0.03347 0.01817	0.01301 0.01989	0.01615 0.02013	0.01622	0.01782	AVRG		0.01942		29.60962	*
4-Methyl-2-pentanol	NE 0.04191	0.13977 0.04448	0.06768 0.05120	0.05740 0.05444	0.04467	0.04137	AVRG		0.06032		51.38639	*
Tert-butyl alcohol	NE 0.03307	0.04145 0.03257	0.03359 0.03586	0.03291 0.03628	0.03387	0.03199	AVRG		0.03462		8.48705	
Diethyl ether	NE 0.30968	0.40393 0.31674	0.33122 0.33062	0.34807 0.33029	0.33548	0.30080	AVRG		0.33409		8.92652	
1,3-Butadiene	NE 0.33288	0.38854 0.32994	0.38107 0.34951	0.31405 0.35836	0.31693	0.31715	AVRG		0.34316		8.15203	
Cyclohexane	NE 237699	2803 432198	4003 682728	7375 943314	19859	84355	LINR	0.02522	0.51703		0.99847	
Tetrahydrofuran	NE 58181	900 109518	1361 162133	2867 219995	7598	28221	LINR	-0.06333	0.06025		0.99942	
alpha-Methylstyrene	NE 1.13399	1.35155 1.10993	0.85865 1.16502	1.02359 1.17184	1.06165	1.09458	AVRG		1.10787		11.89593	
Diisopropyl ether	NE 1.21127	1.41201 1.25239	1.35074 1.32366	1.30436 1.33324	1.25459	1.23114	AVRG		1.29704		5.00179	
Dichlorofluoromethane	NE 0.05734	NE 0.05842	NE 0.06234	NE 0.06214	0.06484	0.06089	AVRG		0.06099		4.51209	*
Propylene oxide	NE 0.03071	NE 0.03174	0.05613 0.03407	0.03062 0.03228	0.03687	0.02961	AVRG		0.03525		24.79698	*
3-Methyl-1-butanol	NE 0.00489	NE 0.00483	NE 0.00601	NE 0.00612	0.00211	0.00438	AVRG		0.00472		30.80128	*

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Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Butyl acrylate	NE 0.63698	0.73114 0.67566	0.58907 0.72950	0.57945 0.74630	0.58578	0.60437	AVRG		0.65314		10.52624	
1,2,3-Trimethylbenzene	NE 2.21302	2.76749 2.29498	2.61167 2.36627	2.52848 2.30685	2.25428	2.32678	AVRG		2.40776		7.74526	
Ethanol	NE 29714	458 56794	787 87890	1703 117751	3072	12594	LINR	-0.06594	0.00325		0.99956	
1-Propanol	NE 0.00727	0.00862 0.00784	0.00964 0.00802	0.00852 0.00816	0.00825	0.00721	AVRG		0.00817		9.04495	
tert-Butyl formate	NE 0.24908	NE 0.25521	NE 0.29218	0.25634 0.29283	0.33766	0.24706	AVRG		0.27577		12.14219	*
3,3-Dimethyl-1-butanol	NE 0.02235	NE 0.02388	NE 0.02628	NE 0.02679	0.01912	0.02169	AVRG		0.02335		12.46791	*
tert-Amyl methyl ether	NE 1.32775	2.53777 1.35994	1.82297 1.44272	1.67155 1.43312	1.55575	1.35887	AVRG		1.61227		23.79383	*
tert-Butyl ethyl ether	NE 1.27589	1.81984 1.30743	1.44501 1.37993	1.35004 1.39745	1.35223	1.28319	AVRG		1.40122		11.86386	
tert-Amyl alcohol	NE 0.02491	0.03129 0.02552	0.02457 0.02922	0.02972 0.02928	0.03377	0.02471	AVRG		0.02811		11.82574	
Epichlorohydrin	NE 58515	926 126478	1242 183469	2483 257397	5941	23842	LINR	0.04999	0.02268		0.99921	
Isoprene	NE 0.13550	0.20890 0.13652	0.10782 0.14294	0.12769 0.14612	0.14811	0.13210	AVRG		0.14286		19.27805	*
n-Amyl acetate	NE 0.52035	NE 0.54240	NE 0.59479	NE 0.61078	NE	0.53118	AVRG		0.55990		7.20069	*

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_424237

Volatiles by by EPA 8260

ICAL Start Date 16-DEC-2022 1138 **ICAL End Date** 16-DEC-2022 1507

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isopropyl acetate	NE 0.72227	1.34716 0.73275	0.78367 0.76494	0.79130 0.76466	0.77391	0.74796	AVRG		0.82540		23.86221	*
n-Butyl acetate	NE 0.19856	0.47947 0.20815	0.28533 0.21762	0.15799 0.22438	0.22627	0.22783	AVRG		0.24729		37.68114	*
Acetaldehyde	NE 67188	NE 107798	3384 161053	5661 205547	6161	32393	LINR	-0.46573	0.02837		0.99553	
Methyl Amyl Ketone	NE 0.62641	1.24254 0.65992	0.68451 0.69377	0.63815 0.71197	0.57607	0.60726	AVRG		0.71562		28.26825	*
Dimethyl Disulfide	NE 0.67210	0.79855 0.68414	0.63899 0.70500	0.61608 0.69777	0.61366	0.66406	AVRG		0.67671		8.32695	
1,2-Dichloroethylene (total)	NE 0.45918	0.54933 0.45116	0.46024 0.47466	0.45982 0.47504	0.46309	0.44450	AVRG		0.47078		6.59168	
Xylenes (total)	NE 0.56357	0.65089 0.56191	0.51351 0.58028	0.53491 0.60523	0.53725	0.54549	AVRG		0.56589		7.37687	
Dibromofluoromethane	NE 211939	2321 438954	4769 652724	9050 856027	24255	90108	LINR	-0.00333	0.47851		0.99972	
1,2-Dichloroethane-d4	NE 222293	2849 455890	5559 686218	9783 919752	24938	92990	LINR	0.00543	0.50950		0.99982	
Toluene-d8	NE 1.18347	1.47608 1.20166	1.31472 1.16429	1.20749 1.10711	1.24798	1.21701	AVRG		1.23554		8.62469	
4-Bromofluorobenzene	NE 292753	3870 615584	7790 936681	13631 1277239	32501	116878	LINR	0.00128	0.46242		0.99992	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_424237

Volatiles by by EPA 8260

Instrument ID voa6.i ICAL Date 16-DEC-2022
Lab File ID X121613.D ICAL Time 2249
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachlor	50.00	48.61	97.24	80-120	
1,1,1-Trichloroeth	50.00	50.16	100.33	80-120	
1,1,2,2-Tetrachlor	50.00	46.75	93.50	80-120	
Freon TF	50.00	52.90	105.81	80-120	
Methyl Acetate	50.00	48.17	96.35	80-120	
Cyclohexane	50.00	51.73	103.47	80-120	
Methylcyclohexane	50.00	50.89	101.79	80-120	
Carbon Disulfide	100.00	98.50	98.50	80-120	
2-Hexanone	100.00	96.73	96.74	80-120	
1,1,2-Trichloroeth	50.00	47.91	95.83	80-120	
1,1-Dichloroethane	50.00	48.19	96.39	80-120	
1,1-Dichloroethene	50.00	49.34	98.68	80-120	
1,1-Dichloropropen	50.00	52.11	104.24	80-120	
1,2,3-Trichloroben	50.00	52.79	105.58	80-120	
1,2,3-Trichloropro	50.00	48.07	96.16	80-120	
1,2,4-Trichloroben	50.00	54.66	109.32	80-120	
1,2,4-Trimethylben	50.00	51.32	102.65	80-120	
1,2-Dibromo-3-Chlo	50.00	50.53	101.07	80-120	
1,2-Dibromoethane	50.00	50.24	100.49	80-120	
Acrolein	100.00	95.06	95.07	80-120	
Acrylonitrile	100.00	101.42	101.43	80-120	
1,2-Dichlorobenzen	50.00	49.52	99.05	80-120	
1,2-Dichloroethane	50.00	49.52	99.05	80-120	
1,2-Dichloropropan	50.00	49.60	99.22	80-120	
1,3,5-Trimethylben	50.00	52.30	104.61	80-120	
1,3-Dichlorobenzen	50.00	51.21	102.43	80-120	
1,3-Dichloropropan	50.00	47.82	95.66	80-120	
1,4-Dichlorobenzen	50.00	49.71	99.44	80-120	
1-Chlorohexane	50.00	51.98	103.97	80-120	
2,2-Dichloropropan	50.00	50.98	101.98	80-120	
2-Butanone	100.00	97.74	97.74	80-120	
2-Chloroethylvinyl	100.00	104.19	104.19	80-120	
2-Chlorotoluene	50.00	49.94	99.89	80-120	
4-Chlorotoluene	50.00	51.25	102.51	80-120	

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_424237

Volatiles by by EPA 8260

Instrument ID voa6.i ICAL Date 16-DEC-2022
Lab File ID X121613.D ICAL Time 2249
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	54.75	109.51	80-120	
4-Methyl-2-Pentano	100.00	94.03	94.03	80-120	
Acetone	100.00	101.89	101.90	80-120	
Acetonitrile	500.00	475.59	95.12	80-120	
Allyl Chloride	50.00	47.31	94.63	80-120	
Benzene	50.00	50.29	100.58	80-120	
Bromobenzene	50.00	49.62	99.25	80-120	
Bromochloromethane	50.00	47.25	94.51	80-120	
Bromodichlorometha	50.00	49.22	98.45	80-120	
Bromoform	50.00	49.33	98.66	80-120	
Bromomethane	50.00	50.78	101.58	80-120	
Carbon Tetrachlori	50.00	49.06	98.12	80-120	
Chlorobenzene	50.00	48.34	96.68	80-120	
Chloroethane	50.00	48.32	96.64	80-120	
Chloroform	50.00	48.45	96.91	80-120	
Chloromethane	50.00	50.17	100.35	80-120	
Chloroprene	50.00	47.74	95.50	80-120	
cis-1,2-Dichloroet	50.00	48.25	96.51	80-120	
cis-1,3-Dichloropr	50.00	52.11	104.22	80-120	
Dibromochlorometha	50.00	49.50	99.02	80-120	
Dibromomethane	50.00	49.19	98.38	80-120	
Dichlorodifluorome	50.00	52.19	104.38	80-120	
Ethylbenzene	50.00	51.31	102.63	80-120	
Ethyl Methacrylate	50.00	44.07	88.15	80-120	
Iodomethane	100.00	96.48	96.49	80-120	
Isobutyl Alcohol	1000.00	982.15	98.22	70-130	
Propionitrile	500.00	486.89	97.38	70-130	
Hexachlorobutadien	50.00	57.73	115.48	80-120	
Isopropylbenzene	50.00	52.09	104.19	80-120	
m,p-Xylenes	100.00	100.17	100.17	80-120	
Methyl tert-butyl	50.00	48.12	96.25	80-120	
Methylene Chloride	50.00	47.56	95.14	80-120	
Methacrylonitrile	50.00	46.73	93.48	80-120	
Methyl Methacrylat	50.00	47.71	95.43	80-120	

Initial Calibration Verification (ICV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_424237

Volatiles by by EPA 8260

Instrument ID voa6.i ICAL Date 16-DEC-2022
Lab File ID X121613.D ICAL Time 2249
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	50.66	101.33	80-120	
n-Propylbenzene	50.00	52.67	105.35	80-120	
Naphthalene	50.00	52.67	105.35	80-120	
o-Xylene	50.00	49.75	99.51	80-120	
sec-Butylbenzene	50.00	54.16	108.34	80-120	
Styrene	50.00	52.09	104.20	80-120	
tert-Butylbenzene	50.00	52.83	105.67	80-120	
Tetrachloroethene	50.00	50.99	101.99	80-120	
Toluene	50.00	49.20	98.42	80-120	
trans-1,2-Dichloro	50.00	49.99	99.98	80-120	
trans-1,3-Dichloro	50.00	52.50	105.01	80-120	
trans-1,4-Dichloro	50.00	49.73	99.47	80-120	
Trichloroethene	50.00	51.28	102.56	80-120	
Trichlorofluoromet	50.00	51.00	102.02	80-120	
Vinyl Acetate	100.00	104.75	104.76	80-120	
Vinyl Chloride	50.00	50.57	101.15	80-120	
1,2-Dichloroethyle	100.00	98.24	98.25	80-120	
Xylenes (total)	150.00	149.92	99.95	80-120	
1,4-Dioxane	1000.00	1021.76	102.18	80-120	
Dibromofluorometha	50.00	50.91	101.84	71-125	
1,2-Dichloroethane	50.00	50.36	100.73	70-125	
Toluene-d8	50.00	49.50	99.00	75-125	
4-Bromofluorobenze	50.00	49.98	99.97	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

ALS Environmental–Houston Laboratory
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Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427080

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 1118
Lab File ID X020103.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00531	0.00531	0.001	-16.20132	20.0	Averaged	
1,3-Butadiene	0.34316	0.37063	0.37063	0.100	-8.00588	20.0	Averaged	
Methacrylonitrile	0.35404	0.36131	0.36131	0.100	-2.05374	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.06128	0.06128	0.005	-8.96943	20.0	Averaged	
Acetonitrile	0.04551	0.04761	0.04761	0.005	-4.61591	20.0	Averaged	
Allyl Chloride	0.86670	0.90620	0.90620	0.100	-4.55759	20.0	Averaged	
Propionitrile	0.05102	0.05209	0.05209	0.010	-2.10017	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.13033	0.13033	0.050	-20.74905	20.0	Averaged	<-
Ethyl Acetate	0.39016	0.43521	0.43521	0.100	-11.54576	20.0	Averaged	
Methyl Methacrylate	0.34093	0.38469	0.38469	0.100	-12.83647	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.26050	0.26050	0.100	-10.63678	20.0	Averaged	
Tetrahydrofuran	100	97.91680	0.06090	0.001	2.08320	20.0	Linear	
alpha-Methylstyrene	1.10787	1.26068	1.26068	0.100	-13.79348	20.0	Averaged	
Diisopropyl ether	1.29704	1.27770	1.27770	0.100	1.49107	20.0	Averaged	
Epichlorohydrin	200	229	0.02568	0.001	-14.47989	20.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.48407	2.48407	0.100	-3.16942	20.0	Averaged	
Dichlorodifluoromethane	50.0	133	0.93596	0.100	-166	20.0	Linear	<-
Chloromethane	50.0	52.17771	0.47300	0.100	-4.35543	20.0	Linear	
Vinyl Chloride	0.43678	0.44932	0.44932	0.100	-2.87128	20.0	Averaged	
Bromomethane	50.0	44.69406	0.29402	0.100	10.61187	20.0	Linear	
Chloroethane	0.30401	0.27734	0.27734	0.100	8.77308	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.66238	0.66238	0.100	-8.36895	20.0	Averaged	
Acrolein	100	95.33487	0.03255	0.010	4.66513	20.0	Linear	
Acetone	100	104	0.14579	0.100	-3.91485	20.0	Linear	
1,1-Dichloroethene	0.37948	0.36496	0.36496	0.100	3.82453	20.0	Averaged	
Iodomethane	100	104	0.52108	0.100	-3.86983	20.0	Quadratic	
Acrylonitrile	0.12870	0.13618	0.13618	0.050	-5.80809	20.0	Averaged	
Methylene Chloride	0.52052	0.48631	0.48631	0.100	6.57200	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.23527	1.23527	0.100	0.55074	20.0	Averaged	
Carbon Disulfide	0.99285	1.00996	1.00996	0.100	-1.72315	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.44009	0.44009	0.100	-3.62291	20.0	Averaged	
Vinyl Acetate	1.09037	1.21609	1.21609	0.010	-11.53007	20.0	Averaged	
1,1-Dichloroethane	0.74536	0.76093	0.76093	0.200	-2.08823	20.0	Averaged	
2-Butanone	100	112	0.16661	0.100	-11.59639	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427080

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 1118
Lab File ID X020103.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
2,2-Dichloropropane	0.63286	0.73539	0.73539	0.100	-16.20181	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.50660	0.50660	0.100	1.98435	20.0	Averaged	
Chloroform	0.83541	0.85507	0.85507	0.200	-2.35325	20.0	Averaged	
Bromochloromethane	0.28299	0.26876	0.26876	0.100	5.02765	20.0	Averaged	
Dibromofluoromethane	50.0	45.61999	0.43818	0.100	8.76002	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.75935	0.75935	0.100	-14.56308	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.44452	0.44452	0.100	-25.22600	20.0	Averaged	<-
1,2-Dichloroethane	0.40967	0.45983	0.45983	0.100	-12.24577	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.44327	0.44327	0.100	-16.93833	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	49.71102	0.50379	0.100	0.57796	20.0	Linear	
Benzene	1.19399	1.29331	1.29331	0.500	-8.31881	20.0	Averaged	
Trichloroethene	0.33865	0.37791	0.37791	0.200	-11.59255	20.0	Averaged	
Bromodichloromethane	0.44810	0.48105	0.48105	0.200	-7.35457	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.17800	0.17800	0.001	-39.62986	20.0	Averaged	<-
1,2-Dichloropropane	0.31761	0.33576	0.33576	0.100	-5.71461	20.0	Averaged	
Dibromomethane	0.21588	0.22205	0.22205	0.100	-2.85822	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.30543	0.30543	0.100	-14.28559	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.59662	0.59662	0.200	-13.37084	20.0	Averaged	
Toluene-d8	1.23554	1.19767	1.19767	0.100	3.06441	20.0	Averaged	
Toluene	1.38201	1.51273	1.51273	0.400	-9.45810	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.51756	0.51756	0.100	-18.50895	20.0	Averaged	
2-Hexanone	0.18183	0.21640	0.21640	0.100	-19.01374	20.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.28748	0.28748	0.100	-3.68876	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.59765	0.59765	0.100	-9.51364	20.0	Averaged	
Dibromochloromethane	0.40016	0.44105	0.44105	0.100	-10.21769	20.0	Averaged	
Tetrachloroethene	0.28594	0.33804	0.33804	0.200	-18.22062	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.38323	0.38323	0.100	-10.55273	20.0	Averaged	
1-Chlorohexane	0.24163	0.31435	0.31435	0.100	-30.09523	20.0	Averaged	<-
Chlorobenzene	0.98026	1.05032	1.05032	0.500	-7.14705	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.40564	0.40564	0.100	-11.19611	20.0	Averaged	
Ethylbenzene	0.46175	0.53590	0.53590	0.100	-16.05711	20.0	Averaged	
m,p-Xylenes	0.59525	0.67497	0.67497	0.100	-13.39285	20.0	Averaged	
o-Xylene	0.58751	0.65489	0.65489	0.300	-11.46963	20.0	Averaged	
Styrene	0.98473	1.12717	1.12717	0.300	-14.46464	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427080

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 1118
Lab File ID X020103.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromoform	0.27722	0.30300	0.30300	0.100	-9.29840	20.0	Averaged	
Isopropylbenzene	1.34224	1.66551	1.66551	0.100	-24.08491	20.0	Averaged	<-
1,1,2,2-Tetrachloroethane	0.79693	0.85137	0.85137	0.300	-6.83198	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.62338	0.47684	0.100	-3.24677	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.65994	0.65994	0.100	-18.61898	20.0	Averaged	
n-Propylbenzene	2.76956	3.55964	3.55964	0.100	-28.52737	20.0	Averaged	<-
Bromobenzene	0.82033	0.90372	0.90372	0.100	-10.16625	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.59942	2.59942	0.100	-27.05149	20.0	Averaged	<-
2-Chlorotoluene	1.81741	2.16788	2.16788	0.100	-19.28410	20.0	Averaged	
4-Chlorotoluene	2.07183	2.53751	2.53751	0.100	-22.47686	20.0	Averaged	<-
tert-Butylbenzene	1.67475	2.16387	2.16387	0.100	-29.20551	20.0	Averaged	<-
1,2,4-Trimethylbenzene	2.15277	2.64095	2.64095	0.100	-22.67704	20.0	Averaged	<-
sec-Butylbenzene	2.22832	3.04569	3.04569	0.100	-36.68121	20.0	Averaged	<-
p-Isopropyltoluene	1.99679	2.74580	2.74580	0.100	-37.51095	20.0	Averaged	<-
1,3-Dichlorobenzene	1.36155	1.60776	1.60776	0.600	-18.08255	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.67836	1.67836	0.400	-12.96248	20.0	Averaged	
n-Butylbenzene	50.0	63.62860	2.46825	0.500	-27.25719	20.0	Linear	<-
1,2-Dichlorobenzene	1.40225	1.58882	1.58882	0.400	-13.30486	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	58.00376	0.14784	0.040	-16.00753	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.19798	1.19798	0.100	-35.37376	20.0	Averaged	<-
Hexachlorobutadiene	50.0	71.36608	0.56255	0.100	-42.73215	20.0	Quadratic	<-
Naphthalene	2.01347	2.49634	2.49634	0.200	-23.98237	20.0	Averaged	<-
1,2,3-Trichlorobenzene	0.84755	1.06178	1.06178	0.010	-25.27698	20.0	Averaged	<-
1,2-Dichloroethylene (total	0.47078	0.47335	0.47335	0.200	-0.54487	20.0	Averaged	
Xylenes (total)	0.56589	0.63232	0.63232	0.100	-11.73748	20.0	Averaged	
Cyclohexane	50.0	61.38789	0.62175	0.100	-22.77577	20.0	Linear	<-
Freon TF	0.36703	0.40535	0.40535	0.100	-10.44031	20.0	Averaged	
Methylcyclohexane	0.61204	0.75718	0.75718	0.100	-23.71373	20.0	Averaged	<-
Methyl Acetate	0.22499	0.24223	0.24223	0.100	-7.66186	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.04154	0.04154	0.005	-19.97477	20.0	Averaged	
Isopropyl alcohol	0.01808	0.02230	0.02230	0.005	-23.31082	20.0	Averaged	<-

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427080

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 2054
Lab File ID X020130.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00532	0.00532	0.001	-16.35894	50.0	Averaged	
1,3-Butadiene	0.34316	0.34825	0.34825	0.100	-1.48383	50.0	Averaged	
Methacrylonitrile	0.35404	0.36284	0.36284	0.100	-2.48417	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.06069	0.06069	0.005	-7.91622	50.0	Averaged	
Acetonitrile	0.04551	0.04727	0.04727	0.005	-3.87853	50.0	Averaged	
Allyl Chloride	0.86670	0.88698	0.88698	0.100	-2.34058	50.0	Averaged	
Propionitrile	0.05102	0.05277	0.05277	0.010	-3.42851	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11549	0.11549	0.050	-6.99532	50.0	Averaged	
Ethyl Acetate	0.39016	0.43205	0.43205	0.100	-10.73819	50.0	Averaged	
Methyl Methacrylate	0.34093	0.38308	0.38308	0.100	-12.36462	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.24734	0.24734	0.100	-5.04747	50.0	Averaged	
Tetrahydrofuran	100	98.83489	0.06146	0.001	1.16511	50.0	Linear	
alpha-Methylstyrene	1.10787	1.13323	1.13323	0.100	-2.28914	50.0	Averaged	
Diisopropyl ether	1.29704	1.28672	1.28672	0.100	0.79620	50.0	Averaged	
Epichlorohydrin	200	203	0.02270	0.001	-1.35453	50.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.45171	2.45171	0.100	-1.82572	50.0	Averaged	
Dichlorodifluoromethane	50.0	132	0.92946	0.100	-164	50.0	Linear	
Chloromethane	50.0	48.50691	0.43825	0.100	2.98618	50.0	Linear	
Vinyl Chloride	0.43678	0.43525	0.43525	0.100	0.34883	50.0	Averaged	
Bromomethane	50.0	44.81477	0.29485	0.100	10.37045	50.0	Linear	
Chloroethane	0.30401	0.26605	0.26605	0.100	12.48543	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.63226	0.63226	0.100	-3.44172	50.0	Averaged	
Acrolein	100	97.77983	0.03341	0.010	2.22017	50.0	Linear	
Acetone	100	101	0.14120	0.100	-0.64743	50.0	Linear	
1,1-Dichloroethene	0.37948	0.35040	0.35040	0.100	7.66262	50.0	Averaged	
Iodomethane	100	94.28685	0.46940	0.100	5.71315	50.0	Quadratic	
Acrylonitrile	0.12870	0.13723	0.13723	0.050	-6.62241	50.0	Averaged	
Methylene Chloride	0.52052	0.49342	0.49342	0.100	5.20568	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.24226	1.24226	0.100	-0.01195	50.0	Averaged	
Carbon Disulfide	0.99285	0.96048	0.96048	0.100	3.26062	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.42552	0.42552	0.100	-0.19218	50.0	Averaged	
Vinyl Acetate	1.09037	1.08234	1.08234	0.010	0.73592	50.0	Averaged	
1,1-Dichloroethane	0.74536	0.74406	0.74406	0.200	0.17453	50.0	Averaged	
2-Butanone	100	108	0.16178	0.100	-8.45085	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427080

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 2054
Lab File ID X020130.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
2,2-Dichloropropane	0.63286	0.61706	0.61706	0.100	2.49543	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.50146	0.50146	0.100	2.97941	50.0	Averaged	
Chloroform	0.83541	0.85583	0.85583	0.200	-2.44362	50.0	Averaged	
Bromochloromethane	0.28299	0.27232	0.27232	0.100	3.76930	50.0	Averaged	
Dibromofluoromethane	50.0	50.08828	0.48094	0.100	-0.17656	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.72674	0.72674	0.100	-9.64213	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.39903	0.39903	0.100	-12.41124	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.46494	0.46494	0.100	-13.49170	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.40156	0.40156	0.100	-5.93614	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	53.94871	0.54697	0.100	-7.89742	50.0	Linear	
Benzene	1.19399	1.22160	1.22160	0.500	-2.31286	50.0	Averaged	
Trichloroethene	0.33865	0.36237	0.36237	0.200	-7.00378	50.0	Averaged	
Bromodichloromethane	0.44810	0.45928	0.45928	0.200	-2.49510	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.16549	0.16549	0.001	-29.81464	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.31426	0.31426	0.100	1.05284	50.0	Averaged	
Dibromomethane	0.21588	0.21549	0.21549	0.100	0.17913	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.28596	0.28596	0.100	-7.00231	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.54588	0.54588	0.200	-3.73020	50.0	Averaged	
Toluene-d8	1.23554	1.26564	1.26564	0.100	-2.43659	50.0	Averaged	
Toluene	1.38201	1.41127	1.41127	0.400	-2.11687	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.47364	0.47364	0.100	-8.45251	50.0	Averaged	
2-Hexanone	0.18183	0.20204	0.20204	0.100	-11.11317	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.28122	0.28122	0.100	-1.43149	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.56905	0.56905	0.100	-4.27390	50.0	Averaged	
Dibromochloromethane	0.40016	0.42123	0.42123	0.100	-5.26641	50.0	Averaged	
Tetrachloroethene	0.28594	0.30053	0.30053	0.200	-5.10016	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.37156	0.37156	0.100	-7.18527	50.0	Averaged	
1-Chlorohexane	0.24163	0.25337	0.25337	0.100	-4.85498	50.0	Averaged	
Chlorobenzene	0.98026	0.98525	0.98525	0.500	-0.50940	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.38423	0.38423	0.100	-5.32633	50.0	Averaged	
Ethylbenzene	0.46175	0.48122	0.48122	0.100	-4.21601	50.0	Averaged	
m,p-Xylenes	0.59525	0.60619	0.60619	0.100	-1.83790	50.0	Averaged	
o-Xylene	0.58751	0.59803	0.59803	0.300	-1.79122	50.0	Averaged	
Styrene	0.98473	1.05515	1.05515	0.300	-7.15097	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427080

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 2054
Lab File ID X020130.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromoform	0.27722	0.29188	0.29188	0.100	-5.28849	50.0	Averaged	
Isopropylbenzene	1.34224	1.46262	1.46262	0.100	-8.96913	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.79054	0.79054	0.300	0.80120	50.0	Averaged	
4-Bromofluorobenzene	50.0	53.29185	0.49227	0.100	-6.58370	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.62629	0.62629	0.100	-12.56988	50.0	Averaged	
n-Propylbenzene	2.76956	3.04778	3.04778	0.100	-10.04559	50.0	Averaged	
Bromobenzene	0.82033	0.85503	0.85503	0.100	-4.23080	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.27011	2.27011	0.100	-10.95563	50.0	Averaged	
2-Chlorotoluene	1.81741	1.93947	1.93947	0.100	-6.71619	50.0	Averaged	
4-Chlorotoluene	2.07183	2.26781	2.26781	0.100	-9.45934	50.0	Averaged	
tert-Butylbenzene	1.67475	1.85785	1.85785	0.100	-10.93278	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.32636	2.32636	0.100	-8.06374	50.0	Averaged	
sec-Butylbenzene	2.22832	2.56189	2.56189	0.100	-14.96989	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.28382	2.28382	0.100	-14.37465	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.44247	1.44247	0.600	-5.94292	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.52215	1.52215	0.400	-2.44919	50.0	Averaged	
n-Butylbenzene	50.0	50.99709	1.96419	0.500	-1.99418	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.46897	1.46897	0.400	-4.75797	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	54.15957	0.13803	0.040	-8.31913	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.01603	1.01603	0.100	-14.81264	50.0	Averaged	
Hexachlorobutadiene	50.0	53.39797	0.41917	0.100	-6.79595	50.0	Quadratic	
Naphthalene	2.01347	2.26827	2.26827	0.200	-12.65484	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.93253	0.93253	0.010	-10.02674	50.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.46349	0.46349	0.200	1.54882	50.0	Averaged	
Xylenes (total)	0.56589	0.56940	0.56940	0.100	-0.62015	50.0	Averaged	
Cyclohexane	50.0	53.19794	0.53706	0.100	-6.39587	50.0	Linear	
Freon TF	0.36703	0.36145	0.36145	0.100	1.52007	50.0	Averaged	
Methylcyclohexane	0.61204	0.72328	0.72328	0.100	-18.17477	50.0	Averaged	
Methyl Acetate	0.22499	0.23037	0.23037	0.100	-2.39257	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.03959	0.03959	0.005	-14.36040	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02119	0.02119	0.005	-17.20670	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427117

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 2156
Lab File ID Y020103.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00556	0.00556	0.001	-21.55144	20.0	Averaged	<-
1,3-Butadiene	0.34316	0.32817	0.32817	0.100	4.36731	20.0	Averaged	
Methacrylonitrile	0.35404	0.38560	0.38560	0.100	-8.91343	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.06415	0.06415	0.005	-14.06465	20.0	Averaged	
Acetonitrile	0.04551	0.04626	0.04626	0.005	-1.65935	20.0	Averaged	
Allyl Chloride	0.86670	0.90438	0.90438	0.100	-4.34781	20.0	Averaged	
Propionitrile	0.05102	0.05645	0.05645	0.010	-10.63963	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11987	0.11987	0.050	-11.05900	20.0	Averaged	
Ethyl Acetate	0.39016	0.44200	0.44200	0.100	-13.28811	20.0	Averaged	
Methyl Methacrylate	0.34093	0.40839	0.40839	0.100	-19.78844	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.26703	0.26703	0.100	-13.40974	20.0	Averaged	
Tetrahydrofuran	100	106	0.06573	0.001	-5.92469	20.0	Linear	
alpha-Methylstyrene	1.10787	1.17872	1.17872	0.100	-6.39563	20.0	Averaged	
Diisopropyl ether	1.29704	1.30731	1.30731	0.100	-0.79146	20.0	Averaged	
Epichlorohydrin	200	223	0.02498	0.001	-11.42464	20.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.37036	2.37036	0.100	1.55311	20.0	Averaged	
Dichlorodifluoromethane	50.0	121	0.85136	0.100	-142	20.0	Linear	<-
Chloromethane	50.0	50.80542	0.46000	0.100	-1.61084	20.0	Linear	
Vinyl Chloride	0.43678	0.41812	0.41812	0.100	4.27151	20.0	Averaged	
Bromomethane	50.0	44.40004	0.29201	0.100	11.19993	20.0	Linear	
Chloroethane	0.30401	0.26569	0.26569	0.100	12.60540	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.61895	0.61895	0.100	-1.26420	20.0	Averaged	
Acrolein	100	81.48609	0.02768	0.010	18.51391	20.0	Linear	
Acetone	100	97.72478	0.13710	0.100	2.27522	20.0	Linear	
1,1-Dichloroethene	0.37948	0.34521	0.34521	0.100	9.03111	20.0	Averaged	
Iodomethane	100	102	0.51306	0.100	-2.38863	20.0	Quadratic	
Acrylonitrile	0.12870	0.14318	0.14318	0.050	-11.24907	20.0	Averaged	
Methylene Chloride	0.52052	0.49083	0.49083	0.100	5.70449	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.30331	1.30331	0.100	-4.92744	20.0	Averaged	
Carbon Disulfide	0.99285	0.94082	0.94082	0.100	5.24056	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.42343	0.42343	0.100	0.29898	20.0	Averaged	
Vinyl Acetate	1.09037	1.17666	1.17666	0.010	-7.91456	20.0	Averaged	
1,1-Dichloroethane	0.74536	0.75386	0.75386	0.200	-1.14065	20.0	Averaged	
2-Butanone	100	112	0.16783	0.100	-12.39538	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427117

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 2156
Lab File ID Y020103.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
2,2-Dichloropropane	0.63286	0.63830	0.63830	0.100	-0.86086	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.50868	0.50868	0.100	1.58233	20.0	Averaged	
Chloroform	0.83541	0.85981	0.85981	0.200	-2.92081	20.0	Averaged	
Bromochloromethane	0.28299	0.27657	0.27657	0.100	2.26977	20.0	Averaged	
Dibromofluoromethane	50.0	48.54889	0.46621	0.100	2.90221	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.72918	0.72918	0.100	-10.01065	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.40491	0.40491	0.100	-14.06713	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.46714	0.46714	0.100	-14.02975	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.40020	0.40020	0.100	-5.57603	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	52.93304	0.53662	0.100	-5.86609	20.0	Linear	
Benzene	1.19399	1.23785	1.23785	0.500	-3.67332	20.0	Averaged	
Trichloroethene	0.33865	0.36215	0.36215	0.200	-6.93789	20.0	Averaged	
Bromodichloromethane	0.44810	0.46885	0.46885	0.200	-4.63164	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.17528	0.17528	0.001	-37.49690	20.0	Averaged	<-
1,2-Dichloropropane	0.31761	0.32442	0.32442	0.100	-2.14617	20.0	Averaged	
Dibromomethane	0.21588	0.21926	0.21926	0.100	-1.56586	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.29936	0.29936	0.100	-12.01642	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.56876	0.56876	0.200	-8.07801	20.0	Averaged	
Toluene-d8	1.23554	1.19445	1.19445	0.100	3.32514	20.0	Averaged	
Toluene	1.38201	1.42734	1.42734	0.400	-3.28000	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.49095	0.49095	0.100	-12.41587	20.0	Averaged	
2-Hexanone	0.18183	0.20635	0.20635	0.100	-13.48386	20.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.28595	0.28595	0.100	-3.13474	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.58595	0.58595	0.100	-7.37065	20.0	Averaged	
Dibromochloromethane	0.40016	0.43097	0.43097	0.100	-7.70037	20.0	Averaged	
Tetrachloroethene	0.28594	0.30358	0.30358	0.200	-6.16668	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.38097	0.38097	0.100	-9.89836	20.0	Averaged	
1-Chlorohexane	0.24163	0.26416	0.26416	0.100	-9.32296	20.0	Averaged	
Chlorobenzene	0.98026	1.00283	1.00283	0.500	-2.30289	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.38764	0.38764	0.100	-6.26150	20.0	Averaged	
Ethylbenzene	0.46175	0.49506	0.49506	0.100	-7.21303	20.0	Averaged	
m,p-Xylenes	0.59525	0.62407	0.62407	0.100	-4.84217	20.0	Averaged	
o-Xylene	0.58751	0.61392	0.61392	0.300	-4.49599	20.0	Averaged	
Styrene	0.98473	1.08465	1.08465	0.300	-10.14673	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427117

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 01-FEB-2023 2156
Lab File ID Y020103.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromoform	0.27722	0.30004	0.30004	0.100	-8.23083	20.0	Averaged	
Isopropylbenzene	1.34224	1.51503	1.51503	0.100	-12.87359	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.83411	0.83411	0.300	-4.66585	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.80243	0.47850	0.100	-3.60486	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.64718	0.64718	0.100	-16.32520	20.0	Averaged	
n-Propylbenzene	2.76956	3.16682	3.16682	0.100	-14.34380	20.0	Averaged	
Bromobenzene	0.82033	0.87674	0.87674	0.100	-6.87679	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.36398	2.36398	0.100	-15.54364	20.0	Averaged	
2-Chlorotoluene	1.81741	2.03136	2.03136	0.100	-11.77231	20.0	Averaged	
4-Chlorotoluene	2.07183	2.36418	2.36418	0.100	-14.11067	20.0	Averaged	
tert-Butylbenzene	1.67475	1.95711	1.95711	0.100	-16.85987	20.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.42971	2.42971	0.100	-12.86440	20.0	Averaged	
sec-Butylbenzene	2.22832	2.69701	2.69701	0.100	-21.03334	20.0	Averaged	<-
p-Isopropyltoluene	1.99679	2.40955	2.40955	0.100	-20.67133	20.0	Averaged	<-
1,3-Dichlorobenzene	1.36155	1.50642	1.50642	0.600	-10.63996	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.58637	1.58637	0.400	-6.77158	20.0	Averaged	
n-Butylbenzene	50.0	53.86424	2.07860	0.500	-7.72847	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.52813	1.52813	0.400	-8.97690	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	57.67802	0.14701	0.040	-15.35604	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.10331	1.10331	0.100	-24.67504	20.0	Averaged	<-
Hexachlorobutadiene	50.0	57.53497	0.45207	0.100	-15.06994	20.0	Quadratic	
Naphthalene	2.01347	2.46113	2.46113	0.200	-22.23348	20.0	Averaged	<-
1,2,3-Trichlorobenzene	0.84755	1.03031	1.03031	0.010	-21.56390	20.0	Averaged	<-
1,2-Dichloroethylene (total	0.47078	0.46606	0.46606	0.200	1.00346	20.0	Averaged	
Xylenes (total)	0.56589	0.59094	0.59094	0.100	-4.42599	20.0	Averaged	
Cyclohexane	50.0	55.12486	0.55699	0.100	-10.24973	20.0	Linear	
Freon TF	0.36703	0.35578	0.35578	0.100	3.06535	20.0	Averaged	
Methylcyclohexane	0.61204	0.67782	0.67782	0.100	-10.74714	20.0	Averaged	
Methyl Acetate	0.22499	0.24805	0.24805	0.100	-10.25164	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.04184	0.04184	0.005	-20.84710	20.0	Averaged	<-
Isopropyl alcohol	0.01808	0.02267	0.02267	0.005	-25.40429	20.0	Averaged	<-

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427117

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 02-FEB-2023 0746
Lab File ID Y020131.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00540	0.00540	0.001	-18.04231	50.0	Averaged	
1,3-Butadiene	0.34316	0.36827	0.36827	0.100	-7.31750	50.0	Averaged	
Methacrylonitrile	0.35404	0.37076	0.37076	0.100	-4.72190	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.06162	0.06162	0.005	-9.57164	50.0	Averaged	
Acetonitrile	0.04551	0.04679	0.04679	0.005	-2.82443	50.0	Averaged	
Allyl Chloride	0.86670	0.89538	0.89538	0.100	-3.30955	50.0	Averaged	
Propionitrile	0.05102	0.05391	0.05391	0.010	-5.67669	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11138	0.11138	0.050	-3.18779	50.0	Averaged	
Ethyl Acetate	0.39016	0.43968	0.43968	0.100	-12.69355	50.0	Averaged	
Methyl Methacrylate	0.34093	0.38151	0.38151	0.100	-11.90322	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.25157	0.25157	0.100	-6.84602	50.0	Averaged	
Tetrahydrofuran	100	100	0.06220	0.001	-0.07153	50.0	Linear	
alpha-Methylstyrene	1.10787	1.19812	1.19812	0.100	-8.14658	50.0	Averaged	
Diisopropyl ether	1.29704	1.29555	1.29555	0.100	0.11533	50.0	Averaged	
Epichlorohydrin	200	199	0.02224	0.001	0.69053	50.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.40468	2.40468	0.100	0.12775	50.0	Averaged	
Dichlorodifluoromethane	50.0	131	0.91779	0.100	-161	50.0	Linear	
Chloromethane	50.0	51.63265	0.46784	0.100	-3.26531	50.0	Linear	
Vinyl Chloride	0.43678	0.44890	0.44890	0.100	-2.77473	50.0	Averaged	
Bromomethane	50.0	47.20758	0.31124	0.100	5.58483	50.0	Linear	
Chloroethane	0.30401	0.28357	0.28357	0.100	6.72358	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.67878	0.67878	0.100	-11.05288	50.0	Averaged	
Acrolein	100	87.42907	0.02977	0.010	12.57093	50.0	Linear	
Acetone	100	80.22992	0.11257	0.100	19.77008	50.0	Linear	
1,1-Dichloroethene	0.37948	0.37682	0.37682	0.100	0.70113	50.0	Averaged	
Iodomethane	100	102	0.51263	0.100	-2.30931	50.0	Quadratic	
Acrylonitrile	0.12870	0.13531	0.13531	0.050	-5.13446	50.0	Averaged	
Methylene Chloride	0.52052	0.52151	0.52151	0.100	-0.19093	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.25364	1.25364	0.100	-0.92811	50.0	Averaged	
Carbon Disulfide	0.99285	1.01354	1.01354	0.100	-2.08354	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.45592	0.45592	0.100	-7.35092	50.0	Averaged	
Vinyl Acetate	1.09037	1.00423	1.00423	0.010	7.90001	50.0	Averaged	
1,1-Dichloroethane	0.74536	0.78801	0.78801	0.200	-5.72153	50.0	Averaged	
2-Butanone	100	103	0.15349	0.100	-3.04632	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427117

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 02-FEB-2023 0746
Lab File ID Y020131.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
2,2-Dichloropropane	0.63286	0.57582	0.57582	0.100	9.01229	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.53566	0.53566	0.100	-3.63749	50.0	Averaged	
Chloroform	0.83541	0.90901	0.90901	0.200	-8.80944	50.0	Averaged	
Bromochloromethane	0.28299	0.28345	0.28345	0.100	-0.16064	50.0	Averaged	
Dibromofluoromethane	50.0	48.08899	0.46181	0.100	3.82202	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.76593	0.76593	0.100	-15.55521	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.41803	0.41803	0.100	-17.76393	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.45998	0.45998	0.100	-12.28261	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.41606	0.41606	0.100	-9.75948	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	51.83801	0.52547	0.100	-3.67603	50.0	Linear	
Benzene	1.19399	1.27260	1.27260	0.500	-6.58369	50.0	Averaged	
Trichloroethene	0.33865	0.38101	0.38101	0.200	-12.50866	50.0	Averaged	
Bromodichloromethane	0.44810	0.47444	0.47444	0.200	-5.87994	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.16713	0.16713	0.001	-31.09830	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.32487	0.32487	0.100	-2.28655	50.0	Averaged	
Dibromomethane	0.21588	0.21933	0.21933	0.100	-1.59801	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.29616	0.29616	0.100	-10.81600	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.54929	0.54929	0.200	-4.37750	50.0	Averaged	
Toluene-d8	1.23554	1.19443	1.19443	0.100	3.32728	50.0	Averaged	
Toluene	1.38201	1.46481	1.46481	0.400	-5.99073	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.47182	0.47182	0.100	-8.03656	50.0	Averaged	
2-Hexanone	0.18183	0.19972	0.19972	0.100	-9.84026	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.28584	0.28584	0.100	-3.09578	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.58773	0.58773	0.100	-7.69593	50.0	Averaged	
Dibromochloromethane	0.40016	0.43391	0.43391	0.100	-8.43452	50.0	Averaged	
Tetrachloroethene	0.28594	0.31605	0.31605	0.200	-10.53021	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.38123	0.38123	0.100	-9.97596	50.0	Averaged	
1-Chlorohexane	0.24163	0.26042	0.26042	0.100	-7.77627	50.0	Averaged	
Chlorobenzene	0.98026	1.01967	1.01967	0.500	-4.02073	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.39260	0.39260	0.100	-7.62071	50.0	Averaged	
Ethylbenzene	0.46175	0.50559	0.50559	0.100	-9.49337	50.0	Averaged	
m,p-Xylenes	0.59525	0.63626	0.63626	0.100	-6.88983	50.0	Averaged	
o-Xylene	0.58751	0.62729	0.62729	0.300	-6.77189	50.0	Averaged	
Styrene	0.98473	1.10397	1.10397	0.300	-12.10797	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427117

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 02-FEB-2023 0746
Lab File ID Y020131.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromoform	0.27722	0.29605	0.29605	0.100	-6.78951	50.0	Averaged	
Isopropylbenzene	1.34224	1.53658	1.53658	0.100	-14.47878	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.80342	0.80342	0.300	-0.81478	50.0	Averaged	
4-Bromofluorobenzene	50.0	50.95945	0.47070	0.100	-1.91890	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.64488	0.64488	0.100	-15.91230	50.0	Averaged	
n-Propylbenzene	2.76956	3.19540	3.19540	0.100	-15.37571	50.0	Averaged	
Bromobenzene	0.82033	0.88598	0.88598	0.100	-8.00386	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.39121	2.39121	0.100	-16.87494	50.0	Averaged	
2-Chlorotoluene	1.81741	2.06607	2.06607	0.100	-13.68217	50.0	Averaged	
4-Chlorotoluene	2.07183	2.37631	2.37631	0.100	-14.69614	50.0	Averaged	
tert-Butylbenzene	1.67475	1.98327	1.98327	0.100	-18.42198	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.42452	2.42452	0.100	-12.62360	50.0	Averaged	
sec-Butylbenzene	2.22832	2.71078	2.71078	0.100	-21.65166	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.39233	2.39233	0.100	-19.80898	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.51133	1.51133	0.600	-11.00024	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.57993	1.57993	0.400	-6.33764	50.0	Averaged	
n-Butylbenzene	50.0	52.27170	2.01505	0.500	-4.54340	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.52376	1.52376	0.400	-8.66495	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	56.41901	0.14380	0.040	-12.83801	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.03404	1.03404	0.100	-16.84779	50.0	Averaged	
Hexachlorobutadiene	50.0	53.36885	0.41894	0.100	-6.73770	50.0	Quadratic	
Naphthalene	2.01347	2.35707	2.35707	0.200	-17.06535	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.95478	0.95478	0.010	-12.65160	50.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.49579	0.49579	0.200	-5.31248	50.0	Averaged	
Xylenes (total)	0.56589	0.59255	0.59255	0.100	-4.71061	50.0	Averaged	
Cyclohexane	50.0	57.11627	0.57758	0.100	-14.23254	50.0	Linear	
Freon TF	0.36703	0.37808	0.37808	0.100	-3.00979	50.0	Averaged	
Methylcyclohexane	0.61204	0.66902	0.66902	0.100	-9.30940	50.0	Averaged	
Methyl Acetate	0.22499	0.24935	0.24935	0.100	-10.82977	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.04084	0.04084	0.005	-17.96691	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02163	0.02163	0.005	-19.63877	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427191

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 02-FEB-2023 1428
Lab File ID X020203.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00525	0.00525	0.001	-14.77845	20.0	Averaged	
1,3-Butadiene	0.34316	0.29905	0.29905	0.100	12.85358	20.0	Averaged	
Methacrylonitrile	0.35404	0.36869	0.36869	0.100	-4.13839	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.06279	0.06279	0.005	-11.64577	20.0	Averaged	
Acetonitrile	0.04551	0.04605	0.04605	0.005	-1.18855	20.0	Averaged	
Allyl Chloride	0.86670	0.91522	0.91522	0.100	-5.59876	20.0	Averaged	
Propionitrile	0.05102	0.05338	0.05338	0.010	-4.63368	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.12219	0.12219	0.050	-13.20876	20.0	Averaged	
Acetaldehyde	200	128	0.02143	0.001	36.11303	20.0	Linear	<-
Chloroprene	0.17001	0.13938	0.13938	0.100	18.01277	20.0	Averaged	
Ethyl Acetate	0.39016	0.42945	0.42945	0.100	-10.06934	20.0	Averaged	
Methyl Methacrylate	0.34093	0.38083	0.38083	0.100	-11.70311	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.25590	0.25590	0.100	-8.68460	20.0	Averaged	
Tetrahydrofuran	100	96.92813	0.06031	0.001	3.07187	20.0	Linear	
alpha-Methylstyrene	1.10787	1.11200	1.11200	0.100	-0.37311	20.0	Averaged	
Diisopropyl ether	1.29704	1.30745	1.30745	0.100	-0.80231	20.0	Averaged	
Epichlorohydrin	200	216	0.02425	0.001	-8.17127	20.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.44547	2.44547	0.100	-1.56621	20.0	Averaged	
Dichlorodifluoromethane	50.0	108	0.75858	0.100	-116	20.0	Linear	<-
Chloromethane	50.0	50.72926	0.45928	0.100	-1.45852	20.0	Linear	
Vinyl Chloride	0.43678	0.37268	0.37268	0.100	14.67629	20.0	Averaged	
Bromomethane	50.0	41.54621	0.27246	0.100	16.90759	20.0	Linear	
Chloroethane	0.30401	0.24769	0.24769	0.100	18.52440	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.52104	0.52104	0.100	14.75486	20.0	Averaged	
Acrolein	100	83.93679	0.02854	0.010	16.06321	20.0	Linear	
Acetone	100	110	0.15436	0.100	-10.03153	20.0	Linear	
1,1-Dichloroethene	0.37948	0.31179	0.31179	0.100	17.83618	20.0	Averaged	
Iodomethane	100	97.15779	0.48483	0.100	2.84221	20.0	Quadratic	
Acrylonitrile	0.12870	0.14059	0.14059	0.050	-9.23750	20.0	Averaged	
Methylene Chloride	0.52052	0.46878	0.46878	0.100	9.94031	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.25088	1.25088	0.100	-0.70616	20.0	Averaged	
Carbon Disulfide	0.99285	0.86593	0.86593	0.100	12.78342	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.39534	0.39534	0.100	6.91376	20.0	Averaged	
Vinyl Acetate	1.09037	1.04709	1.04709	0.010	3.96944	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427191

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 02-FEB-2023 1428
Lab File ID X020203.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.74536	0.70667	0.70667	0.200	5.19160	20.0	Averaged	
2-Butanone	100	113	0.16839	0.100	-12.75957	20.0	Linear	
2,2-Dichloropropane	0.63286	0.60721	0.60721	0.100	4.05189	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.47700	0.47700	0.100	7.71199	20.0	Averaged	
Chloroform	0.83541	0.81183	0.81183	0.200	2.82279	20.0	Averaged	
Bromochloromethane	0.28299	0.25777	0.25777	0.100	8.91218	20.0	Averaged	
Dibromofluoromethane	50.0	46.84827	0.44994	0.100	6.30347	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.64260	0.64260	0.100	3.05076	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.35571	0.35571	0.100	-0.20616	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.43413	0.43413	0.100	-5.97163	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.34588	0.34588	0.100	8.75334	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	50.39533	0.51076	0.100	-0.79066	20.0	Linear	
Benzene	1.19399	1.16425	1.16425	0.500	2.49043	20.0	Averaged	
Trichloroethene	0.33865	0.33723	0.33723	0.200	0.41998	20.0	Averaged	
Bromodichloromethane	0.44810	0.44826	0.44826	0.200	-0.03721	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.16992	0.16992	0.001	-33.28795	20.0	Averaged	<-
1,2-Dichloropropane	0.31761	0.31294	0.31294	0.100	1.46952	20.0	Averaged	
Dibromomethane	0.21588	0.20970	0.20970	0.100	2.86222	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.29775	0.29775	0.100	-11.41258	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.55453	0.55453	0.200	-5.37380	20.0	Averaged	
Toluene-d8	1.23554	1.20964	1.20964	0.100	2.09603	20.0	Averaged	
Toluene	1.38201	1.35807	1.35807	0.400	1.73292	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.48043	0.48043	0.100	-10.00722	20.0	Averaged	
2-Hexanone	0.18183	0.21835	0.21835	0.100	-20.08572	20.0	Averaged	<-
1,1,2-Trichloroethane	0.27726	0.27877	0.27877	0.100	-0.54721	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.56930	0.56930	0.100	-4.31876	20.0	Averaged	
Dibromochloromethane	0.40016	0.41428	0.41428	0.100	-3.52934	20.0	Averaged	
Tetrachloroethene	0.28594	0.27089	0.27089	0.200	5.26347	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.36865	0.36865	0.100	-6.34515	20.0	Averaged	
1-Chlorohexane	0.24163	0.22843	0.22843	0.100	5.46529	20.0	Averaged	
Chlorobenzene	0.98026	0.96041	0.96041	0.500	2.02413	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.37469	0.37469	0.100	-2.71131	20.0	Averaged	
Ethylbenzene	0.46175	0.45557	0.45557	0.100	1.33879	20.0	Averaged	
m,p-Xylenes	0.59525	0.58228	0.58228	0.100	2.17844	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427191

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 02-FEB-2023 1428
Lab File ID X020203.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.58751	0.58177	0.58177	0.300	0.97677	20.0	Averaged	
Styrene	0.98473	1.03694	1.03694	0.300	-5.30169	20.0	Averaged	
Bromoform	0.27722	0.28933	0.28933	0.100	-4.36552	20.0	Averaged	
Isopropylbenzene	1.34224	1.34808	1.34808	0.100	-0.43499	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.80876	0.80876	0.300	-1.48474	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.19768	0.47290	0.100	-2.39536	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.64937	0.64937	0.100	-16.71859	20.0	Averaged	
n-Propylbenzene	2.76956	2.90096	2.90096	0.100	-4.74453	20.0	Averaged	
Bromobenzene	0.82033	0.84735	0.84735	0.100	-3.29381	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.18547	2.18547	0.100	-6.81868	20.0	Averaged	
2-Chlorotoluene	1.81741	1.92216	1.92216	0.100	-5.76352	20.0	Averaged	
4-Chlorotoluene	2.07183	2.25298	2.25298	0.100	-8.74354	20.0	Averaged	
tert-Butylbenzene	1.67475	1.72720	1.72720	0.100	-3.13156	20.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.26399	2.26399	0.100	-5.16640	20.0	Averaged	
sec-Butylbenzene	2.22832	2.36813	2.36813	0.100	-6.27456	20.0	Averaged	
p-Isopropyltoluene	1.99679	2.16035	2.16035	0.100	-8.19144	20.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.43567	1.43567	0.600	-5.44377	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.50670	1.50670	0.400	-1.40932	20.0	Averaged	
n-Butylbenzene	50.0	48.47542	1.86356	0.500	3.04917	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.44139	1.44139	0.400	-2.79078	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	56.54391	0.14412	0.040	-13.08782	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.01913	1.01913	0.100	-15.16360	20.0	Averaged	
Hexachlorobutadiene	50.0	49.07094	0.38484	0.100	1.85812	20.0	Quadratic	
Naphthalene	2.01347	2.34879	2.34879	0.200	-16.65413	20.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.95068	0.95068	0.010	-12.16852	20.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.43617	0.43617	0.200	7.35194	20.0	Averaged	
Xylenes (total)	0.56589	0.54279	0.54279	0.100	4.08275	20.0	Averaged	
Cyclohexane	50.0	44.30695	0.44512	0.100	11.38610	20.0	Linear	
Freon TF	0.36703	0.29364	0.29364	0.100	19.99727	20.0	Averaged	
Methylcyclohexane	0.61204	0.68816	0.68816	0.100	-12.43678	20.0	Averaged	
Methyl Acetate	0.22499	0.24551	0.24551	0.100	-9.11941	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.04072	0.04072	0.005	-17.60450	20.0	Averaged	
Isopropyl alcohol	0.01808	0.02193	0.02193	0.005	-21.30283	20.0	Averaged	<-

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427191

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 0017
Lab File ID X020231.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00548	0.00548	0.001	-19.90665	50.0	Averaged	
1,3-Butadiene	0.34316	0.31163	0.31163	0.100	9.18696	50.0	Averaged	
Methacrylonitrile	0.35404	0.38555	0.38555	0.100	-8.90072	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.06188	0.06188	0.005	-10.03570	50.0	Averaged	
Acetonitrile	0.04551	0.04711	0.04711	0.005	-3.51903	50.0	Averaged	
Allyl Chloride	0.86670	0.93441	0.93441	0.100	-7.81302	50.0	Averaged	
Propionitrile	0.05102	0.05478	0.05478	0.010	-7.38265	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.12033	0.12033	0.050	-11.48233	50.0	Averaged	
Acetaldehyde	200	244	0.03784	0.001	-21.75328	50.0	Linear	
Chloroprene	0.17001	0.14730	0.14730	0.100	13.35747	50.0	Averaged	
Ethyl Acetate	0.39016	0.42636	0.42636	0.100	-9.27740	50.0	Averaged	
Methyl Methacrylate	0.34093	0.39048	0.39048	0.100	-14.53465	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.27459	0.27459	0.100	-16.62347	50.0	Averaged	
Tetrahydrofuran	100	101	0.06261	0.001	-0.75206	50.0	Linear	
alpha-Methylstyrene	1.10787	1.16580	1.16580	0.100	-5.22964	50.0	Averaged	
Diisopropyl ether	1.29704	1.31016	1.31016	0.100	-1.01153	50.0	Averaged	
Epichlorohydrin	200	224	0.02515	0.001	-12.15314	50.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.54801	2.54801	0.100	-5.82529	50.0	Averaged	
Dichlorodifluoromethane	50.0	120	0.84077	0.100	-139	50.0	Linear	
Chloromethane	50.0	49.87399	0.45119	0.100	0.25203	50.0	Linear	
Vinyl Chloride	0.43678	0.39326	0.39326	0.100	9.96229	50.0	Averaged	
Bromomethane	50.0	41.81984	0.27434	0.100	16.36032	50.0	Linear	
Chloroethane	0.30401	0.25464	0.25464	0.100	16.23868	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.57250	0.57250	0.100	6.33492	50.0	Averaged	
Acrolein	100	91.23337	0.03111	0.010	8.76663	50.0	Linear	
Acetone	100	84.96921	0.11922	0.100	15.03079	50.0	Linear	
1,1-Dichloroethene	0.37948	0.32501	0.32501	0.100	14.35234	50.0	Averaged	
Iodomethane	100	92.87765	0.46184	0.100	7.12235	50.0	Quadratic	
Acrylonitrile	0.12870	0.14253	0.14253	0.050	-10.74606	50.0	Averaged	
Methylene Chloride	0.52052	0.47767	0.47767	0.100	8.23123	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.25726	1.25726	0.100	-1.21959	50.0	Averaged	
Carbon Disulfide	0.99285	0.88337	0.88337	0.100	11.02667	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.41188	0.41188	0.100	3.01910	50.0	Averaged	
Vinyl Acetate	1.09037	0.94008	0.94008	0.010	13.78356	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427191

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 0017
Lab File ID X020231.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.74536	0.70854	0.70854	0.200	4.94065	50.0	Averaged	
2-Butanone	100	105	0.15632	0.100	-4.88960	50.0	Linear	
2,2-Dichloropropane	0.63286	0.57501	0.57501	0.100	9.13982	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.48521	0.48521	0.100	6.12233	50.0	Averaged	
Chloroform	0.83541	0.81463	0.81463	0.200	2.48734	50.0	Averaged	
Bromochloromethane	0.28299	0.25810	0.25810	0.100	8.79705	50.0	Averaged	
Dibromofluoromethane	50.0	44.79738	0.43031	0.100	10.40524	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.67560	0.67560	0.100	-1.92671	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.38653	0.38653	0.100	-8.88934	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.44524	0.44524	0.100	-8.68308	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.37581	0.37581	0.100	0.85676	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	49.00983	0.49665	0.100	1.98034	50.0	Linear	
Benzene	1.19399	1.21350	1.21350	0.500	-1.63435	50.0	Averaged	
Trichloroethene	0.33865	0.36693	0.36693	0.200	-8.34959	50.0	Averaged	
Bromodichloromethane	0.44810	0.44530	0.44530	0.200	0.62437	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.17102	0.17102	0.001	-34.15161	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.31464	0.31464	0.100	0.93368	50.0	Averaged	
Dibromomethane	0.21588	0.21073	0.21073	0.100	2.38645	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.30354	0.30354	0.100	-13.57923	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.54067	0.54067	0.200	-2.74024	50.0	Averaged	
Toluene-d8	1.23554	1.17468	1.17468	0.100	4.92559	50.0	Averaged	
Toluene	1.38201	1.39859	1.39859	0.400	-1.19954	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.47371	0.47371	0.100	-8.46800	50.0	Averaged	
2-Hexanone	0.18183	0.20948	0.20948	0.100	-15.20808	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.28196	0.28196	0.100	-1.69721	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.56750	0.56750	0.100	-3.98881	50.0	Averaged	
Dibromochloromethane	0.40016	0.41513	0.41513	0.100	-3.74194	50.0	Averaged	
Tetrachloroethene	0.28594	0.29533	0.29533	0.200	-3.28384	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.37233	0.37233	0.100	-7.40593	50.0	Averaged	
1-Chlorohexane	0.24163	0.25312	0.25312	0.100	-4.75447	50.0	Averaged	
Chlorobenzene	0.98026	0.98461	0.98461	0.500	-0.44398	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.37973	0.37973	0.100	-4.09238	50.0	Averaged	
Ethylbenzene	0.46175	0.48449	0.48449	0.100	-4.92456	50.0	Averaged	
m,p-Xylenes	0.59525	0.60771	0.60771	0.100	-2.09350	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427191

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 0017
Lab File ID X020231.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.58751	0.60615	0.60615	0.300	-3.17385	50.0	Averaged	
Styrene	0.98473	1.05962	1.05962	0.300	-7.60472	50.0	Averaged	
Bromoform	0.27722	0.29370	0.29370	0.100	-5.94305	50.0	Averaged	
Isopropylbenzene	1.34224	1.46789	1.46789	0.100	-9.36106	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.81186	0.81186	0.300	-1.87361	50.0	Averaged	
4-Bromofluorobenzene	50.0	50.69367	0.46824	0.100	-1.38733	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.66285	0.66285	0.100	-19.14187	50.0	Averaged	
n-Propylbenzene	2.76956	3.11307	3.11307	0.100	-12.40293	50.0	Averaged	
Bromobenzene	0.82033	0.86073	0.86073	0.100	-4.92526	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.34208	2.34208	0.100	-14.47335	50.0	Averaged	
2-Chlorotoluene	1.81741	2.01911	2.01911	0.100	-11.09802	50.0	Averaged	
4-Chlorotoluene	2.07183	2.34487	2.34487	0.100	-13.17896	50.0	Averaged	
tert-Butylbenzene	1.67475	1.91886	1.91886	0.100	-14.57576	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.40132	2.40132	0.100	-11.54582	50.0	Averaged	
sec-Butylbenzene	2.22832	2.62210	2.62210	0.100	-17.67186	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.37358	2.37358	0.100	-18.87029	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.49717	1.49717	0.600	-9.96024	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.56881	1.56881	0.400	-5.58966	50.0	Averaged	
n-Butylbenzene	50.0	52.78886	2.03569	0.500	-5.57772	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.50894	1.50894	0.400	-7.60810	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	59.08015	0.15059	0.040	-18.16030	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.09738	1.09738	0.100	-24.00509	50.0	Averaged	
Hexachlorobutadiene	50.0	55.48490	0.43576	0.100	-10.96981	50.0	Quadratic	
Naphthalene	2.01347	2.53699	2.53699	0.200	-26.00101	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	1.05489	1.05489	0.010	-24.46357	50.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.44855	0.44855	0.200	4.72258	50.0	Averaged	
Xylenes (total)	0.56589	0.57757	0.57757	0.100	-2.06378	50.0	Averaged	
Cyclohexane	50.0	50.24704	0.50655	0.100	-0.49408	50.0	Linear	
Freon TF	0.36703	0.32638	0.32638	0.100	11.07593	50.0	Averaged	
Methylcyclohexane	0.61204	0.75086	0.75086	0.100	-22.68196	50.0	Averaged	
Methyl Acetate	0.22499	0.24711	0.24711	0.100	-9.83025	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.04276	0.04276	0.005	-23.50115	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02299	0.02299	0.005	-27.14244	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427296

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 1102
Lab File ID X020303.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00567	0.00567	0.001	-24.16017	20.0	Averaged	<-
1,3-Butadiene	0.34316	0.29800	0.29800	0.100	13.15865	20.0	Averaged	
Methacrylonitrile	0.35404	0.38160	0.38160	0.100	-7.78413	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.06206	0.06206	0.005	-10.35237	20.0	Averaged	
Acetonitrile	0.04551	0.04797	0.04797	0.005	-5.41032	20.0	Averaged	
Allyl Chloride	0.86670	0.95174	0.95174	0.100	-9.81197	20.0	Averaged	
Propionitrile	0.05102	0.05672	0.05672	0.010	-11.16776	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.12596	0.12596	0.050	-16.69960	20.0	Averaged	
Acetaldehyde	200	243	0.03784	0.001	-21.72876	20.0	Linear	<-
Ethyl Acetate	0.39016	0.43872	0.43872	0.100	-12.44677	20.0	Averaged	
Methyl Methacrylate	0.34093	0.40441	0.40441	0.100	-18.61998	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.27457	0.27457	0.100	-16.61380	20.0	Averaged	
Tetrahydrofuran	100	107	0.06615	0.001	-6.62988	20.0	Linear	
alpha-Methylstyrene	1.10787	1.14572	1.14572	0.100	-3.41710	20.0	Averaged	
Diisopropyl ether	1.29704	1.33060	1.33060	0.100	-2.58673	20.0	Averaged	
Dimethyl Disulfide	0.67671	0.72590	0.72590	0.100	-7.26927	20.0	Averaged	
Epichlorohydrin	200	242	0.02718	0.001	-21.10985	20.0	Linear	<-
1,2,3-Trimethylbenzene	2.40776	2.52658	2.52658	0.100	-4.93494	20.0	Averaged	
Dichlorodifluoromethane	50.0	115	0.80791	0.100	-130	20.0	Linear	<-
Chloromethane	50.0	49.92820	0.45170	0.100	0.14360	20.0	Linear	
Vinyl Chloride	0.43678	0.37424	0.37424	0.100	14.31792	20.0	Averaged	
Bromomethane	50.0	40.13823	0.26282	0.100	19.72354	20.0	Linear	
Chloroethane	0.30401	0.25026	0.25026	0.100	17.68061	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.54516	0.54516	0.100	10.80802	20.0	Averaged	
Acrolein	100	99	0.03398	0.010	0.59701	20.0	Linear	
Acetone	100	105	0.14789	0.100	-5.41157	20.0	Linear	
1,1-Dichloroethene	0.37948	0.30468	0.30468	0.100	19.71166	20.0	Averaged	
Iodomethane	100	97.26423	0.48541	0.100	2.73577	20.0	Quadratic	
Acrylonitrile	0.12870	0.14537	0.14537	0.050	-12.94764	20.0	Averaged	
Methylene Chloride	0.52052	0.45514	0.45514	0.100	12.55961	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.26332	1.26332	0.100	-1.70805	20.0	Averaged	
Carbon Disulfide	0.99285	0.87271	0.87271	0.100	12.10036	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.39674	0.39674	0.100	6.58463	20.0	Averaged	
Vinyl Acetate	1.09037	1.20089	1.20089	0.010	-10.13607	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427296

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 1102
Lab File ID X020303.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.74536	0.70115	0.70115	0.200	5.93159	20.0	Averaged	
2-Butanone	100	114	0.17082	0.100	-14.34058	20.0	Linear	
2,2-Dichloropropane	0.63286	0.64572	0.64572	0.100	-2.03356	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.46940	0.46940	0.100	9.18173	20.0	Averaged	
Chloroform	0.83541	0.78809	0.78809	0.200	5.66408	20.0	Averaged	
Bromochloromethane	0.28299	0.25121	0.25121	0.100	11.23012	20.0	Averaged	
Dibromofluoromethane	50.0	44.47858	0.42726	0.100	11.04285	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.64741	0.64741	0.100	2.32599	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.37015	0.37015	0.100	-4.27644	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.43500	0.43500	0.100	-6.18472	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.36478	0.36478	0.100	3.76875	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	48.01777	0.48654	0.100	3.96447	20.0	Linear	
Benzene	1.19399	1.18527	1.18527	0.500	0.73001	20.0	Averaged	
Trichloroethene	0.33865	0.34147	0.34147	0.200	-0.83182	20.0	Averaged	
Bromodichloromethane	0.44810	0.43847	0.43847	0.200	2.14732	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.17156	0.17156	0.001	-34.57682	20.0	Averaged	<-
1,2-Dichloropropane	0.31761	0.31565	0.31565	0.100	0.61729	20.0	Averaged	
Dibromomethane	0.21588	0.20526	0.20526	0.100	4.92029	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.30574	0.30574	0.100	-14.40185	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.55373	0.55373	0.200	-5.22073	20.0	Averaged	
Toluene-d8	1.23554	1.19205	1.19205	0.100	3.51950	20.0	Averaged	
Toluene	1.38201	1.38537	1.38537	0.400	-0.24282	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.48293	0.48293	0.100	-10.57982	20.0	Averaged	
2-Hexanone	0.18183	0.21702	0.21702	0.100	-19.35664	20.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.27763	0.27763	0.100	-0.13664	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.57086	0.57086	0.100	-4.60488	20.0	Averaged	
Dibromochloromethane	0.40016	0.41048	0.41048	0.100	-2.57947	20.0	Averaged	
Tetrachloroethene	0.28594	0.29180	0.29180	0.200	-2.04685	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.36722	0.36722	0.100	-5.93456	20.0	Averaged	
1-Chlorohexane	0.24163	0.25153	0.25153	0.100	-4.09570	20.0	Averaged	
Chlorobenzene	0.98026	0.97022	0.97022	0.500	1.02424	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.37538	0.37538	0.100	-2.90139	20.0	Averaged	
Ethylbenzene	0.46175	0.47787	0.47787	0.100	-3.49073	20.0	Averaged	
m,p-Xylenes	0.59525	0.60178	0.60178	0.100	-1.09676	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427296

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 1102
Lab File ID X020303.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.58751	0.59331	0.59331	0.300	-0.98750	20.0	Averaged	
Styrene	0.98473	1.04362	1.04362	0.300	-5.97987	20.0	Averaged	
Bromoform	0.27722	0.29034	0.29034	0.100	-4.73313	20.0	Averaged	
Isopropylbenzene	1.34224	1.41958	1.41958	0.100	-5.76235	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.84664	0.84664	0.300	-6.23840	20.0	Averaged	
4-Bromofluorobenzene	50.0	50.62253	0.46758	0.100	-1.24506	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.66231	0.66231	0.100	-19.04421	20.0	Averaged	
n-Propylbenzene	2.76956	3.05398	3.05398	0.100	-10.26954	20.0	Averaged	
Bromobenzene	0.82033	0.85617	0.85617	0.100	-4.37010	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.25832	2.25832	0.100	-10.37929	20.0	Averaged	
2-Chlorotoluene	1.81741	1.98277	1.98277	0.100	-9.09837	20.0	Averaged	
4-Chlorotoluene	2.07183	2.29865	2.29865	0.100	-10.94770	20.0	Averaged	
tert-Butylbenzene	1.67475	1.83100	1.83100	0.100	-9.32942	20.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.32847	2.32847	0.100	-8.16170	20.0	Averaged	
sec-Butylbenzene	2.22832	2.52501	2.52501	0.100	-13.31480	20.0	Averaged	
p-Isopropyltoluene	1.99679	2.30838	2.30838	0.100	-15.60504	20.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.46319	1.46319	0.600	-7.46489	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.52418	1.52418	0.400	-2.58587	20.0	Averaged	
n-Butylbenzene	50.0	52.80059	2.03615	0.500	-5.60117	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.45861	1.45861	0.400	-4.01897	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	58.30588	0.14861	0.040	-16.61177	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.05986	1.05986	0.100	-19.76619	20.0	Averaged	
Hexachlorobutadiene	50.0	59.69568	0.46928	0.100	-19.39136	20.0	Quadratic	
Naphthalene	2.01347	2.47910	2.47910	0.200	-23.12594	20.0	Averaged	<-
1,2,3-Trichlorobenzene	0.84755	0.98745	0.98745	0.010	-16.50662	20.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.43307	0.43307	0.200	8.01028	20.0	Averaged	
Xylenes (total)	0.56589	0.55730	0.55730	0.100	1.51872	20.0	Averaged	
Cyclohexane	50.0	50.38361	0.50796	0.100	-0.76722	20.0	Linear	
Freon TF	0.36703	0.32108	0.32108	0.100	12.52023	20.0	Averaged	
Methylcyclohexane	0.61204	0.76612	0.76612	0.100	-25.17503	20.0	Averaged	<-
Methyl Acetate	0.22499	0.23902	0.23902	0.100	-6.23616	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.04242	0.04242	0.005	-22.53515	20.0	Averaged	<-
Isopropyl alcohol	0.01808	0.02339	0.02339	0.005	-29.33639	20.0	Averaged	<-

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427296

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 2040
Lab File ID X020330.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00513	0.00513	0.001	-12.22421	50.0	Averaged	
1,3-Butadiene	0.34316	0.35162	0.35162	0.100	-2.46640	50.0	Averaged	
Methacrylonitrile	0.35404	0.36406	0.36406	0.100	-2.83036	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.05962	0.05962	0.005	-6.00951	50.0	Averaged	
Acetonitrile	0.04551	0.04376	0.04376	0.005	3.84727	50.0	Averaged	
Allyl Chloride	0.86670	0.87638	0.87638	0.100	-1.11767	50.0	Averaged	
Propionitrile	0.05102	0.05302	0.05302	0.010	-3.92812	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11675	0.11675	0.050	-8.16152	50.0	Averaged	
Acetaldehyde	200	255	0.03948	0.001	-27.53083	50.0	Linear	
Ethyl Acetate	0.39016	0.42640	0.42640	0.100	-9.28866	50.0	Averaged	
Methyl Methacrylate	0.34093	0.38045	0.38045	0.100	-11.59232	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.27434	0.27434	0.100	-16.51388	50.0	Averaged	
Tetrahydrofuran	100	96.99420	0.06035	0.001	3.00580	50.0	Linear	
alpha-Methylstyrene	1.10787	1.20090	1.20090	0.100	-8.39739	50.0	Averaged	
Diisopropyl ether	1.29704	1.24340	1.24340	0.100	4.13582	50.0	Averaged	
Dimethyl Disulfide	0.67671	0.68277	0.68277	0.100	-0.89608	50.0	Averaged	
Epichlorohydrin	200	206	0.02311	0.001	-3.15813	50.0	Linear	
1,2,3-Trimethylbenzene	2.40776	2.38004	2.38004	0.100	1.15091	50.0	Averaged	
Dichlorodifluoromethane	50.0	114	0.80350	0.100	-129	50.0	Linear	
Chloromethane	50.0	50.43092	0.45646	0.100	-0.86185	50.0	Linear	
Vinyl Chloride	0.43678	0.42178	0.42178	0.100	3.43459	50.0	Averaged	
Bromomethane	50.0	43.43064	0.28537	0.100	13.13871	50.0	Linear	
Chloroethane	0.30401	0.26234	0.26234	0.100	13.70611	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.60328	0.60328	0.100	1.29938	50.0	Averaged	
Acrolein	100	83.96934	0.02855	0.010	16.03066	50.0	Linear	
Acetone	100	81.84767	0.11484	0.100	18.15233	50.0	Linear	
1,1-Dichloroethene	0.37948	0.33414	0.33414	0.100	11.94827	50.0	Averaged	
Iodomethane	100	90.74382	0.45041	0.100	9.25618	50.0	Quadratic	
Acrylonitrile	0.12870	0.13757	0.13757	0.050	-6.88583	50.0	Averaged	
Methylene Chloride	0.52052	0.48337	0.48337	0.100	7.13801	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.19572	1.19572	0.100	3.73499	50.0	Averaged	
Carbon Disulfide	0.99285	0.93588	0.93588	0.100	5.73853	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.42049	0.42049	0.100	0.99132	50.0	Averaged	
Vinyl Acetate	1.09037	0.81175	0.81175	0.010	25.55238	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427296

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 2040
Lab File ID X020330.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1-Dichloroethane	0.74536	0.72742	0.72742	0.200	2.40784	50.0	Averaged	
2-Butanone	100	103	0.15331	0.100	-2.93072	50.0	Linear	
2,2-Dichloropropane	0.63286	0.59637	0.59637	0.100	5.76440	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.49864	0.49864	0.100	3.52545	50.0	Averaged	
Chloroform	0.83541	0.83700	0.83700	0.200	-0.19007	50.0	Averaged	
Bromochloromethane	0.28299	0.26330	0.26330	0.100	6.95930	50.0	Averaged	
Dibromofluoromethane	50.0	44.39622	0.42647	0.100	11.20756	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.69865	0.69865	0.100	-5.40488	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.40455	0.40455	0.100	-13.96613	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.43693	0.43693	0.100	-6.65433	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.39256	0.39256	0.100	-3.56172	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	48.62223	0.49270	0.100	2.75554	50.0	Linear	
Benzene	1.19399	1.22867	1.22867	0.500	-2.90450	50.0	Averaged	
Trichloroethene	0.33865	0.38713	0.38713	0.200	-14.31403	50.0	Averaged	
Bromodichloromethane	0.44810	0.45146	0.45146	0.200	-0.75114	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.16729	0.16729	0.001	-31.22510	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.31856	0.31856	0.100	-0.29920	50.0	Averaged	
Dibromomethane	0.21588	0.20901	0.20901	0.100	3.18382	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.30388	0.30388	0.100	-13.70683	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.55092	0.55092	0.200	-4.68841	50.0	Averaged	
Toluene-d8	1.23554	1.17558	1.17558	0.100	4.85244	50.0	Averaged	
Toluene	1.38201	1.44092	1.44092	0.400	-4.26210	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.46984	0.46984	0.100	-7.58120	50.0	Averaged	
2-Hexanone	0.18183	0.20937	0.20937	0.100	-15.14940	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.28439	0.28439	0.100	-2.57211	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.57808	0.57808	0.100	-5.92771	50.0	Averaged	
Dibromochloromethane	0.40016	0.41954	0.41954	0.100	-4.84374	50.0	Averaged	
Tetrachloroethene	0.28594	0.30979	0.30979	0.200	-8.33790	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.37336	0.37336	0.100	-7.70379	50.0	Averaged	
1-Chlorohexane	0.24163	0.26312	0.26312	0.100	-8.89405	50.0	Averaged	
Chlorobenzene	0.98026	1.00107	1.00107	0.500	-2.12316	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.38549	0.38549	0.100	-5.67107	50.0	Averaged	
Ethylbenzene	0.46175	0.50184	0.50184	0.100	-8.68193	50.0	Averaged	
m,p-Xylenes	0.59525	0.62897	0.62897	0.100	-5.66418	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Aptim Environmental & Infrastucture, Inc.
Project LHAAP 16 January 2023

Workorder HS23011294

RunID VOA6_427296

Volatiles by by EPA 8260

Instrument ID voa6.i Injection Date 03-FEB-2023 2040
Lab File ID X020330.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
Analysis Type WATER ICAL Times 1138 1507
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
o-Xylene	0.58751	0.61720	0.61720	0.300	-5.05435	50.0	Averaged	
Styrene	0.98473	1.07701	1.07701	0.300	-9.37115	50.0	Averaged	
Bromoform	0.27722	0.29104	0.29104	0.100	-4.98267	50.0	Averaged	
Isopropylbenzene	1.34224	1.51608	1.51608	0.100	-12.95162	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.78679	0.78679	0.300	1.27184	50.0	Averaged	
4-Bromofluorobenzene	50.0	49.49678	0.45717	0.100	1.00644	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.65145	0.65145	0.100	-17.09321	50.0	Averaged	
n-Propylbenzene	2.76956	3.24977	3.24977	0.100	-17.33884	50.0	Averaged	
Bromobenzene	0.82033	0.88388	0.88388	0.100	-7.74727	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.42134	2.42134	0.100	-18.34713	50.0	Averaged	
2-Chlorotoluene	1.81741	2.08134	2.08134	0.100	-14.52203	50.0	Averaged	
4-Chlorotoluene	2.07183	2.41537	2.41537	0.100	-16.58167	50.0	Averaged	
tert-Butylbenzene	1.67475	1.99180	1.99180	0.100	-18.93121	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.46326	2.46326	0.100	-14.42303	50.0	Averaged	
sec-Butylbenzene	2.22832	2.72884	2.72884	0.100	-22.46188	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.42762	2.42762	0.100	-21.57625	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.52964	1.52964	0.600	-12.34500	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.58433	1.58433	0.400	-6.63396	50.0	Averaged	
n-Butylbenzene	50.0	54.55835	2.10630	0.500	-9.11670	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.52309	1.52309	0.400	-8.61779	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	56.98634	0.14524	0.040	-13.97268	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	1.09305	1.09305	0.100	-23.51566	50.0	Averaged	
Hexachlorobutadiene	50.0	57.05138	0.44822	0.100	-14.10277	50.0	Quadratic	
Naphthalene	2.01347	2.43331	2.43331	0.200	-20.85166	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	1.01156	1.01156	0.010	-19.35142	50.0	Averaged	
1,2-Dichloroethylene (total	0.47078	0.45957	0.45957	0.200	2.38240	50.0	Averaged	
Xylenes (total)	0.56589	0.58275	0.58275	0.100	-2.97843	50.0	Averaged	
Cyclohexane	50.0	53.62559	0.54148	0.100	-7.25118	50.0	Linear	
Freon TF	0.36703	0.34423	0.34423	0.100	6.21136	50.0	Averaged	
Methylcyclohexane	0.61204	0.67519	0.67519	0.100	-10.31813	50.0	Averaged	
Methyl Acetate	0.22499	0.23991	0.23991	0.100	-6.63169	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.03934	0.03934	0.005	-13.63045	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02131	0.02131	0.005	-17.88269	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427080

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X020103	598154	#	4.18	#	866437	#	4.97	#	819811	#	7.67	#	459085	#	9.66	#
CCB	X020104	694183		4.18		975624		4.96		867529		7.67		444798		9.66	
VLCSW-230201	X020105	602534		4.18		897186		4.96		842554		7.67		471247		9.66	
VBLKW-230201	X020107	695936		4.18		984782		4.97		883477		7.67		457336		9.66	
HS23011294-11	X020109	693405		4.18		966429		4.97		846043		7.67		434009		9.66	
ZZZZZZMS	X020113	696603		4.17		983884		4.96		883819		7.67		482145		9.66	
ZZZZZZMSD	X020114	687487		4.18		975136		4.97		872582		7.67		472119		9.66	
CCV-END	X020130	568208		4.17		863055		4.96		814334		7.67		458624		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427117

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	Y020103	547301	#	4.18	#	829482	#	4.96	#	789726	#	7.67	#	443792	#	9.66	#
CCB	Y020104	704593		4.18		987135		4.96		886557		7.67		459115		9.66	
VLCSW-230201	Y020105	567314		4.18		860635		4.96		806066		7.67		446822		9.66	
VBLKW-230201	Y020107	723030		4.18		1018124		4.96		911181		7.67		473203		9.66	
ZZZZZZMS	Y020114	699858		4.18		978074		4.97		874865		7.67		486651		9.66	
ZZZZZZMSD	Y020115	710546		4.18		1001641		4.96		901274		7.67		494980		9.66	
HS23011294-06	Y020127	708680		4.18		986569		4.97		873744		7.67		449732		9.66	
HS23011294-07	Y020128	698785		4.18		972217		4.97		865885		7.67		455996		9.66	
HS23011294-05	Y020129	707149		4.18		988690		4.96		884133		7.67		450980		9.66	
HS23011294-04	Y020130	709079		4.18		991848		4.97		875493		7.67		460394		9.66	
CCV-END	Y020131	561458		4.18		863807		4.96		808262		7.67		449845		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427189

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X020203	583476	#	4.18	#	880046	#	4.96	#	820599	#	7.67	#	451653	#	9.66	#
CCB	X020204	730612		4.18		1012385		4.96		908237		7.67		456862		9.66	
VLCSW-230202	X020205	594963		4.18		872700		4.97		823868		7.67		462872		9.66	
VBLKM-230202	X020207	718148		4.17		1005598		4.96		894507		7.67		462857		9.66	
HS23011294-08	X020210	720815		4.18		999944		4.96		897475		7.67		468593		9.66	
HS23011294-08MS	X020217	708429		4.18		994906		4.96		901784		7.67		491734		9.66	
HS23011294-08MSD	X020218	712554		4.18		1000871		4.96		904027		7.67		490817		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
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H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427191

		IS1		IS2		IS3		IS4	
Sample ID	File ID	Area	RT	Area	RT	Area	RT	Area	RT
VBLKW-230202	X020208	709559	4.17	999005	4.96	876582	7.67	449203	9.66
HS23011294-10	X020211	714892	4.17	999694	4.96	893952	7.67	469382	9.66
HS23011294-01	X020212	706867	4.18	997560	4.96	877478	7.67	457058	9.66
HS23011294-09	X020214	736440	4.18	1039640	4.96	937727	7.67	491933	9.66
CCV-END	X020231	569105	4.17	851640	4.96	810096	7.67	447952	9.66

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

RunID
VOA6_427296

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X020303	594086	#	4.17	#	881142	#	4.96	#	819861	#	7.67	#	452221	#	9.66	#
CCB	X020304	723831		4.18		1024527		4.96		910274		7.67		466160		9.66	
VLCSW-230203	X020305	593012		4.17		878233		4.96		839324		7.67		463946		9.66	
VBLKW-230203	X020307	725153		4.17		1022005		4.96		915781		7.67		467996		9.66	
HS23011294-02	X020308	706253		4.18		999593		4.96		888405		7.67		476728		9.66	
HS23011294-09	X020312	1117137		4.17		1389435		4.96		1395721		7.67		719378		9.66	
HS23011294-01	X020313	699239		4.17		995830		4.96		878660		7.67		455801		9.66	
HS23011294-03	X020314	723834		4.18		1026038		4.96		907546		7.67		488819		9.66	
ZZZZZZMS	X020315	718397		4.17		1018697		4.97		918895		7.67		500812		9.66	
ZZZZZZMSD	X020316	713045		4.17		1009740		4.96		910244		7.67		494253		9.66	
HS23011294-03	X020317	720869		4.18		1029146		4.96		916785		7.67		484120		9.66	
CCV-END	X020330	581666		4.17		869515		4.96		810676		7.67		445256		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

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Analysis Run Log

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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

MSVOA06 -Logbook

Batch: 52417 **Analyst:** Presenta Cabascango

Date: 12-16-2022 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	12-16-2022 11:17 am	1.00	50 mL	50 mL	X121601.D	Liquid	Y	NA
2	VSTD000.25	ICAL1	12-16-2022 11:38 am	1.00	50 mL	50 mL	X121602.D	Liquid	Y	NA
3	VSTD000.5	ICAL2	12-16-2022 12:20 pm	1.00	50 mL	50 mL	X121603.D	Liquid	Y	NA
4	VSTD001	ICAL3	12-16-2022 12:41 pm	1.00	50 mL	50 mL	X121604.D	Liquid	Y	NA
5	VSTD002	ICAL4	12-16-2022 01:02 pm	1.00	50 mL	50 mL	X121605.D	Liquid	Y	NA
6	VSTD005	ICAL5	12-16-2022 01:23 pm	1.00	50 mL	50 mL	X121606.D	Liquid	Y	NA
7	VSTD020	ICAL6	12-16-2022 01:43 pm	1.00	50 mL	50 mL	X121607.D	Liquid	Y	NA
8	VSTD050	ICAL7	12-16-2022 02:04 pm	1.00	50 mL	50 mL	X121608.D	Liquid	Y	NA
9	VSTD100	ICAL8	12-16-2022 02:25 pm	1.00	50 mL	50 mL	X121609.D	Liquid	Y	NA
10	VSTD150	ICAL9	12-16-2022 02:46 pm	1.00	50 mL	50 mL	X121610.D	Liquid	Y	NA
11	VSTD200	ICAL	12-16-2022 03:07 pm	1.00	50 mL	50 mL	X121611.D	Liquid	Y	NA
12	BLANK	SAMP	12-16-2022 03:28 pm	1.00	50 mL	50 mL	X121612.D	Liquid	Y	NA
13	CCV	CCV	12-16-2022 03:49 pm	1.00	50 mL	50 mL	X121613.D	Liquid	Y	NA
14	BLANK	SAMP	12-16-2022 04:10 pm	1.00	50 mL	50 mL	X121614.D	Liquid	Y	NA
15	CCB	SAMP	12-16-2022 04:31 pm	1.00	50 mL	50 mL	X121615.D	Liquid	Y	NA
16	VLCSW-221216	LCS	12-16-2022 04:52 pm	1.00	50 mL	50 mL	X121616.D	Liquid	Y	NA
17	BLANK	SAMP	12-16-2022 05:13 pm	1.00	50 mL	50 mL	X121617.D	Liquid	Y	NA
18	VBLKW-221216	MBLK	12-16-2022 05:34 pm	1.00	50 mL	50 mL	X121618.D	Liquid	Y	NA
19	HS22120648-05	SAMP	12-16-2022 05:55 pm	1.00	50 mL	50 mL	X121619.D	Liquid	Y	NA
20	HS22120648-09	SAMP	12-16-2022 06:16 pm	1.00	50 mL	50 mL	X121620.D	Liquid	Y	NA
21	HS22120648-01	SAMP	12-16-2022 06:37 pm	1.00	50 mL	50 mL	X121621.D	Liquid	Y	NA
22	HS22120648-02	SAMP	12-16-2022 06:58 pm	1.00	50 mL	50 mL	X121622.D	Liquid	Y	NA
23	HS22120648-03	SAMP	12-16-2022 07:19 pm	1.00	50 mL	50 mL	X121623.D	Liquid	Y	NA
24	HS22120648-04	SAMP	12-16-2022 07:40 pm	1.00	50 mL	50 mL	X121624.D	Liquid	Y	NA
25	HS22120648-06	SAMP	12-16-2022 08:01 pm	1.00	50 mL	50 mL	X121625.D	Liquid	Y	NA
26	HS22120648-07	SAMP	12-16-2022 08:22 pm	1.00	50 mL	50 mL	X121626.D	Liquid	Y	NA
27	HS22120648-08	SAMP	12-16-2022 08:43 pm	1.00	50 mL	50 mL	X121627.D	Liquid	Y	NA
28	HS22120648-06MS	MS	12-16-2022 09:04 pm	1.00	50 mL	50 mL	X121628.D	Liquid	Y	NA
29	HS22120648-06MSD	MSD	12-16-2022 09:25 pm	1.00	50 mL	50 mL	X121629.D	Liquid	Y	NA
30	CCV-END	CCV	12-16-2022 09:46 pm	1.00	50 mL	50 mL	X121630.D	Liquid	Y	NA
31	BFB	TUNE	12-16-2022 10:07 pm	1.00	50 mL	50 mL	Y121601.D	Liquid	Y	NA
32	CCV	CCV	12-16-2022 10:28 pm	1.00	50 mL	50 mL	Y121602a.D	Liquid	Y	NA
33	CCV	CCV	12-16-2022 10:49 pm	1.00	50 mL	50 mL	Y121603.D	Liquid	Y	NA
34	CCB	SAMP	12-16-2022 11:10 pm	1.00	50 mL	50 mL	Y121604.D	Liquid	Y	NA
35	VLCSW-221215	LCS	12-16-2022 11:31 pm	1.00	50 mL	50 mL	Y121605.D	Liquid	Y	NA
36	BLANK	SAMP	12-16-2022 11:52 pm	1.00	50 mL	50 mL	Y121606.D	Liquid	Y	NA
37	VBLKW-221215	MBLK	12-17-2022 12:13 am	1.00	50 mL	50 mL	Y121607.D	Liquid	Y	NA
38	HS22120974-13	SAMP	12-17-2022 12:34 am	1.00	50 mL	50 mL	Y121608.D	Liquid	Y	NA
39	HS22120974-01	SAMP	12-17-2022 12:55 am	1.00	50 mL	50 mL	Y121609.D	Liquid	Y	NA
40	HS22120974-01MS	MS	12-17-2022 01:16 am	1.00	50 mL	50 mL	Y121610.D	Liquid	Y	NA
41	HS22120974-01MSD	MSD	12-17-2022 01:38 am	1.00	50 mL	50 mL	Y121611.D	Liquid	Y	NA

MSVOA06 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	BLANK	SAMP	12-17-2022 01:59 am	1.00	50 mL	50 mL	Y121612.D	Liquid	Y	NA
43	HS22120974-02	SAMP	12-17-2022 02:20 am	1.00	50 mL	50 mL	Y121613.D	Liquid	Y	NA
44	HS22120974-03	SAMP	12-17-2022 02:41 am	1.00	50 mL	50 mL	Y121614.D	Liquid	Y	NA
45	HS22120974-04	SAMP	12-17-2022 03:02 am	1.00	50 mL	50 mL	Y121615.D	Liquid	Y	NA
46	HS22120974-05	SAMP	12-17-2022 03:23 am	1.00	50 mL	50 mL	Y121616.D	Liquid	Y	NA
47	HS22120974-06	SAMP	12-17-2022 03:44 am	1.00	50 mL	50 mL	Y121617.D	Liquid	Y	NA
48	HS22120974-07	SAMP	12-17-2022 04:05 am	1.00	50 mL	50 mL	Y121618.D	Liquid	Y	NA
49	HS22120974-08	SAMP	12-17-2022 04:26 am	1.00	50 mL	50 mL	Y121619.D	Liquid	Y	NA
50	HS22120974-09	SAMP	12-17-2022 04:47 am	1.00	50 mL	50 mL	Y121620.D	Liquid	Y	NA
51	HS22120974-10	SAMP	12-17-2022 05:08 am	1.00	50 mL	50 mL	Y121621.D	Liquid	Y	NA
52	HS22120974-11	SAMP	12-17-2022 05:29 am	1.00	50 mL	50 mL	Y121622.D	Liquid	Y	NA
53	HS22120974-12	SAMP	12-17-2022 05:50 am	1.00	50 mL	50 mL	Y121623.D	Liquid	Y	NA
54	HS22120974-14	SAMP	12-17-2022 06:11 am	1.00	50 mL	50 mL	Y121624.D	Liquid	Y	NA
55	HS22120974-15	SAMP	12-17-2022 06:32 am	1.00	50 mL	50 mL	Y121625.D	Liquid	Y	NA
56	HS22120574-15	SAMP	12-17-2022 06:53 am	5.00	10 mL	50 mL	Y121626.D	Liquid	Y	NA
57	HS22120574-17	SAMP	12-17-2022 07:14 am	5.00	10 mL	50 mL	Y121627.D	Liquid	Y	NA
58	HS22120770-07	SAMP	12-17-2022 07:36 am	10.00	5 mL	50 mL	Y121628.D	Liquid	Y	NA
59	HS22120770-07	SAMP	12-17-2022 07:57 am	100.0(	500 µL	50 mL	Y121629.D	Liquid	Y	NA
60	HS22120770-10	SAMP	12-17-2022 08:18 am	5.00	10 mL	50 mL	Y121630.D	Liquid	Y	NA
61	BLANK	SAMP	12-17-2022 08:39 am	1.00	50 mL	50 mL	Y121631.D	Liquid	Y	NA

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

RUNID
VOA6_427080

Run ID VOA6_427080 **Start Date** 02/01/23 **EndDate** 02/01/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	X020103.D	02/01/23 11:18	1
CCB	CCB	CCB	X020104.D	02/01/23 11:39	1
VLCSW-230201	LCS	VLCSW-230201	X020105.D	02/01/23 12:00	1
VBLKW-230201	MBLK	VBLKW-230201	X020107.D	02/01/23 12:42	1
Trip Blank-230121	SAMP	HS23011294-11	X020109.D	02/01/23 13:24	1
BatchQC	MS	HS23011397-02MS	X020113.D	02/01/23 14:48	1
BatchQC	MSD	HS23011397-02MSD	X020114.D	02/01/23 15:09	1

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

RUNID
VOA6_427117

Run ID VOA6_427117 **Start Date** 02/01/23 **EndDate** 02/02/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	Y020103.D	02/01/23 21:56	1
CCB	CCB	CCB	Y020104.D	02/01/23 22:17	1
VLCSW-230201	LCS	VLCSW-230201	Y020105.D	02/01/23 22:38	1
VBLKW-230201	MBLK	VBLKW-230201	Y020107.D	02/01/23 23:21	1
BatchQC	MS	HS23011576-06MS	Y020114.D	02/02/23 01:48	1
BatchQC	MSD	HS23011576-06MSD	Y020115.D	02/02/23 02:09	1
16WW23-230121	SAMP	HS23011294-06	Y020127.D	02/02/23 06:22	1
16WW23-230121-FD	SAMP	HS23011294-07	Y020128.D	02/02/23 06:43	1
16WW43-230121	SAMP	HS23011294-05	Y020129.D	02/02/23 07:04	1
16WW27-230121	SAMP	HS23011294-04	Y020130.D	02/02/23 07:25	1

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

RUNID
VOA6_427191

Run ID VOA6_427191 **Start Date** 02/02/23 **EndDate** 02/02/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	X020203.D	02/02/23 14:28	1
CCB	CCB	CCB	X020204.D	02/02/23 14:49	1
VLCSW-230202	LCS	VLCSW-230202	X020205.D	02/02/23 15:10	1
VBLKW-230202	MBLK	VBLKW-230202	X020208.D	02/02/23 16:13	1
16WW24-230121	SAMP	HS23011294-08	X020210.D	02/02/23 16:55	1
16WW42-230121	SAMP	HS23011294-10	X020211.D	02/02/23 17:17	1
16WW40-230121	SAMP	HS23011294-01	X020212.D	02/02/23 17:38	5
16WW13-230121	SAMP	HS23011294-09	X020214.D	02/02/23 18:20	5
16WW24-230121	MS	HS23011294-08MS	X020217.D	02/02/23 19:23	1
16WW24-230121	MSD	HS23011294-08MSD	X020218.D	02/02/23 19:44	1

Form 13 - Analysis Run Log

Client Aptim Environmental & Infrastucture, Inc.

Project LHAAP 16 January 2023

Workorder
HS23011294

Volatiles by EPA 8260

RUNID
VOA6_427296

Run ID VOA6_427296 **Start Date** 02/03/23 **EndDate** 02/03/23 **Matrix** Aqueous

Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
CCV	CCV	CCV	X020303.D	02/03/23 11:02	1
CCB	CCB	CCB	X020304.D	02/03/23 11:23	1
VLCSW-230203	LCS	VLCSW-230203	X020305.D	02/03/23 11:44	1
VBLKW-230203	MBLK	VBLKW-230203	X020307.D	02/03/23 12:26	1
16EW08-230121	SAMP	HS23011294-02	X020308.D	02/03/23 12:47	1
16WW13-230121	SAMP	HS23011294-09	X020312.D	02/03/23 14:21	1
16WW40-230121	SAMP	HS23011294-01	X020313.D	02/03/23 14:42	1
16EW04-230121	SAMP	HS23011294-03	X020314.D	02/03/23 15:04	100
BatchQC	MS	HS23011233-07MS	X020315.D	02/03/23 15:25	1
BatchQC	MSD	HS23011233-07MSD	X020316.D	02/03/23 15:46	1
16EW04-230121	SAMP	HS23011294-03	X020317.D	02/03/23 16:07	1000

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Raw Data VOA6 424237

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\x221216.b\X121601.D Page 1
Report Date: 16-Dec-2022 12:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\X121601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-DEC-2022 11:17
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham 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: NAHSTW7051

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)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	72328			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	13272			15.00- 40.00	18.35
8.691	8.889	(0.000)	75	33368			30.00- 60.00	46.13
8.691	8.889	(0.000)	96	5178			5.00- 9.00	7.16
8.691	8.889	(0.000)	173	577			0.00- 2.00	0.90
8.691	8.889	(0.000)	174	64360			50.00- 0.00	88.98
8.691	8.889	(0.000)	175	5033			5.00- 9.00	7.82
8.691	8.889	(0.000)	176	63184			95.00- 101.00	98.17
8.691	8.889	(0.000)	177	4164			5.00- 9.00	6.59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.35
75	30.00 - 60.00% of mass 95	46.13
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	0.80 (0.90)
174	Greater than 50.00% of mass 95	88.98
175	5.00 - 9.00% of mass 174	6.96 (7.82)
176	95.00 - 101.00% of mass 174	87.36 (98.17)
177	5.00 - 9.00% of mass 176	5.76 (6.59)

Data File: X121601.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	686	63.00	2521	93.00	2705	136.90	215
37.00	3051	64.10	316	94.00	9587	140.90	735
38.00	2957	66.90	155	95.00	72328	141.70	91
39.00	1321	67.90	6274	96.00	5178	142.80	683
39.90	1146	69.00	6990	96.90	213	145.60	119
42.00	114	69.90	604	103.00	58	148.00	107
42.90	301	71.80	385	104.00	313	149.80	105
44.00	1509	72.90	2986	104.70	125	153.80	54
45.00	716	74.00	11163	105.10	132	154.80	169
46.80	723	75.00	33368	105.90	451	156.80	155
48.00	503	76.00	3228	110.60	54	160.80	71
49.00	3278	76.90	395	113.00	74	171.60	83
50.00	13272	77.80	187	114.80	159	172.80	577
51.00	3648	78.90	2224	115.80	342	173.90	64360
52.10	365	79.80	718	116.90	386	174.90	5033
54.00	52	80.90	2158	117.90	425	175.90	63184
54.90	278	81.80	420	118.80	260	176.90	4164
56.00	1513	83.00	51	127.90	191	178.00	133
57.00	1763	86.90	2878	128.90	172		
59.90	665	87.80	2342	129.80	237		
61.00	3173	91.00	516	130.80	156		
62.00	3572	92.00	2006	134.70	222		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D Page 1

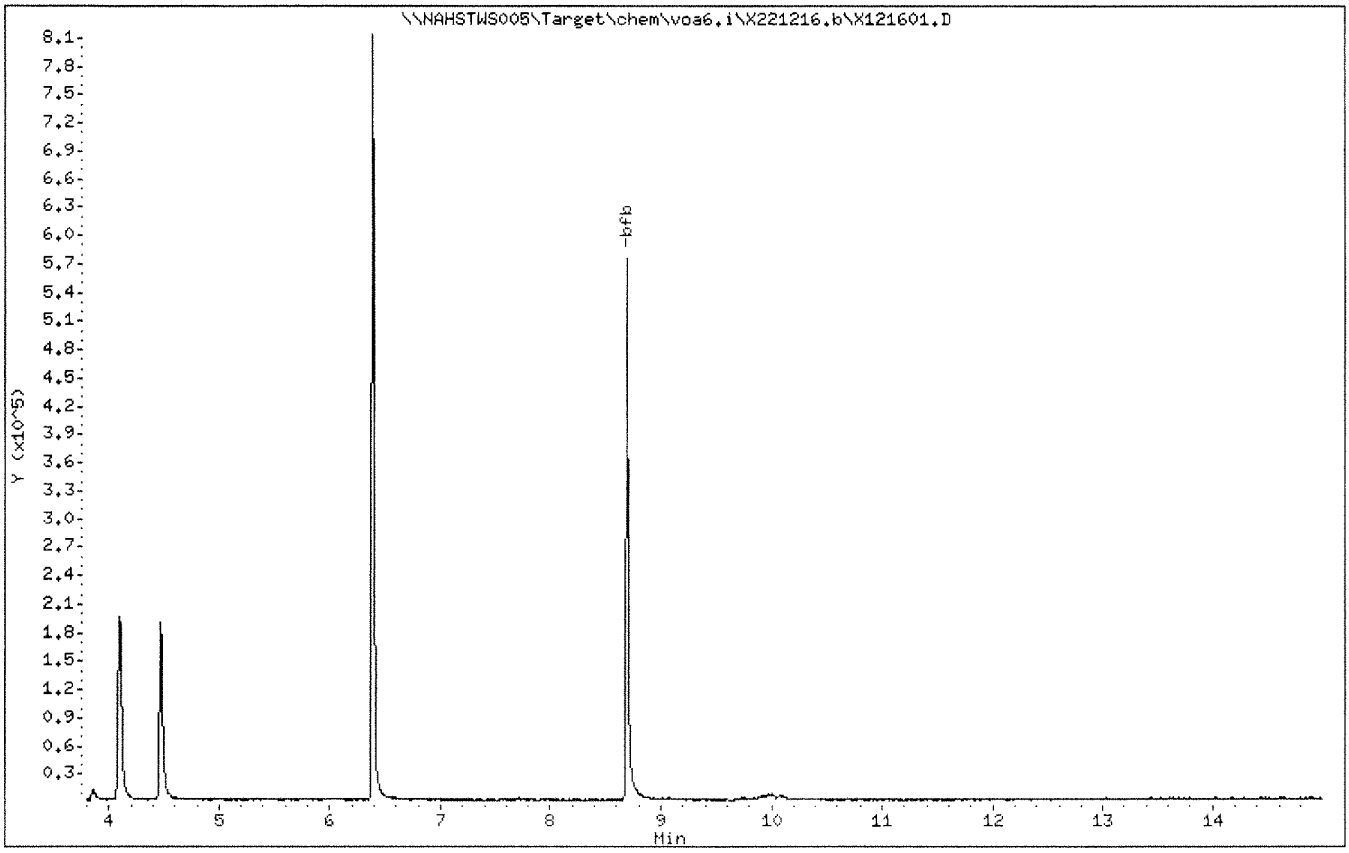
Date : 16-DEC-2022 11:17

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D Page 2

Date : 16-DEC-2022 11:17

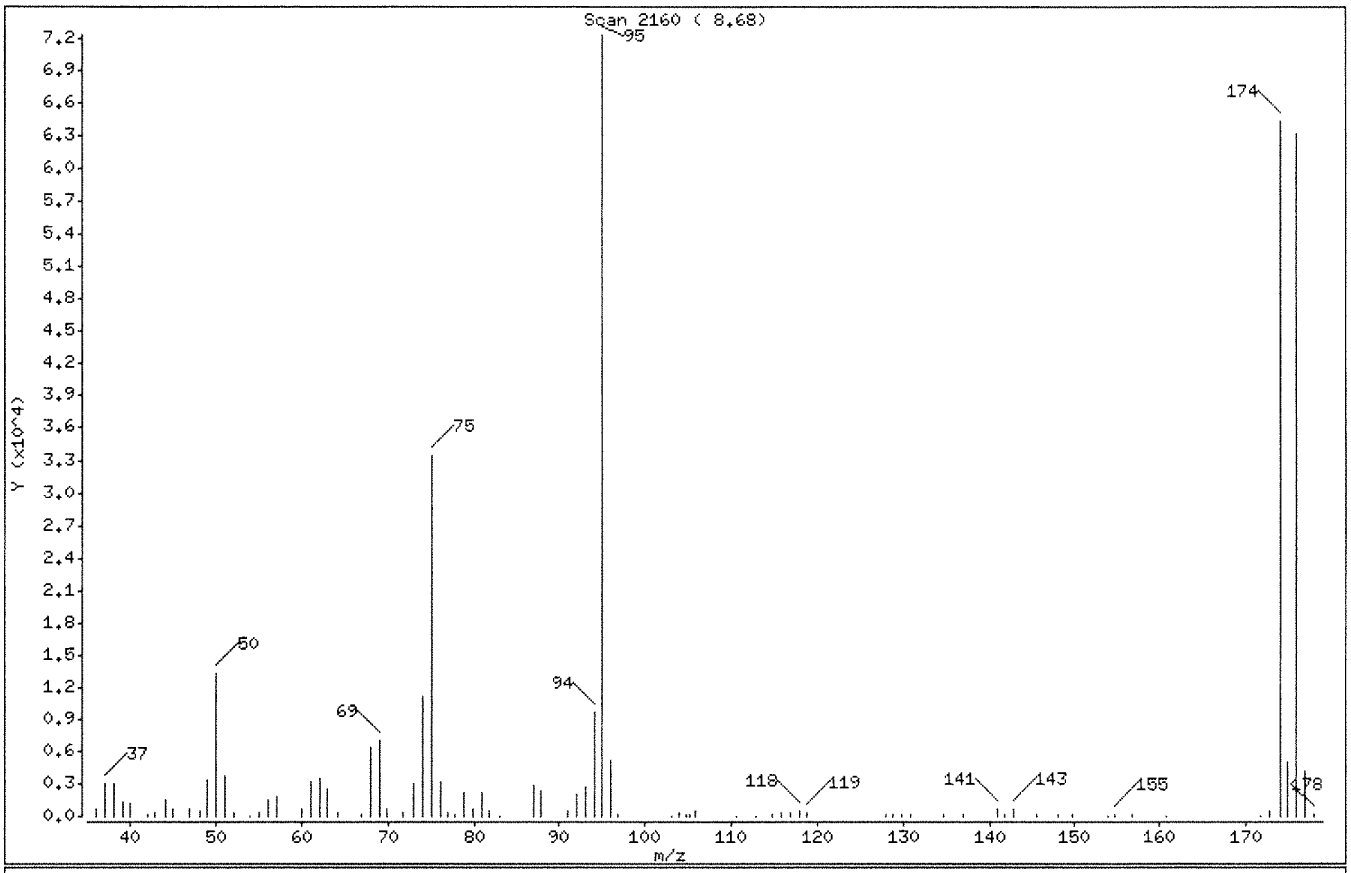
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.35
75	30.00 - 60.00% of mass 95	46.13
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	0.80 (0.90)
174	Greater than 50.00% of mass 95	88.98
175	5.00 - 9.00% of mass 174	6.96 (7.82)
176	95.00 - 101.00% of mass 174	87.36 (98.17)
177	5.00 - 9.00% of mass 176	5.76 (6.59)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D

Date : 16-DEC-2022 11:17

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X121601.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	686	63.00	2521	93.00	2705	136.90	215
37.00	3051	64.10	316	94.00	9587	140.90	735
38.00	2957	66.90	155	95.00	72328	141.70	91
39.00	1321	67.90	6274	96.00	5178	142.80	683
39.90	1146	69.00	6990	96.90	213	145.60	119
42.00	114	69.90	604	103.00	58	148.00	107
42.90	301	71.80	385	104.00	313	149.80	105
44.00	1509	72.90	2986	104.70	125	153.80	54
45.00	716	74.00	11163	105.10	132	154.80	169
46.80	723	75.00	33368	105.90	451	156.80	155
48.00	503	76.00	3228	110.60	54	160.80	71
49.00	3278	76.90	395	113.00	74	171.60	83
50.00	13272	77.80	187	114.80	159	172.80	577
51.00	3648	78.90	2224	115.80	342	173.90	64360
52.10	365	79.80	718	116.90	386	174.90	5033
54.00	52	80.90	2158	117.90	425	175.90	63184
54.90	278	81.80	420	118.80	260	176.90	4164
56.00	1513	83.00	51	127.90	191	178.00	133
57.00	1763	86.90	2878	128.90	172		
59.90	665	87.80	2342	129.80	237		
61.00	3173	91.00	516	130.80	156		
62.00	3572	92.00	2006	134.70	222		

Data File : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\X121601.D
Inj Date : 16-DEC-2022 11:17
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 16-DEC-2022 11:38
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	461807	50.0000	
135	1,4-Dioxane	88	5.625	5.625	(1.346)	214	5.00000	5.06(M)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	1172	0.25000	0.36
25	Methacrylonitrile	41	3.855	3.855	(0.923)	5876	0.25000	1.79
12	Isobutyl Alcohol	43	4.687	4.687	(1.122)	2537	5.00000	4.88(TM)
13	Acetonitrile	39	2.202	2.202	(0.527)	730	2.50000	1.73
14	Allyl Chloride	41	2.206	2.206	(0.528)	1591	0.25000	0.19
4	Propionitrile	54	3.702	3.702	(0.886)	1165	2.50000	2.47(M)
72	trans-1,4-Dichloro-2-butene	53	8.931	8.931	(1.164)	280	0.25000	0.19(M)
145	alpha-Methylstyrene	118	9.268	9.268	(0.959)	2322	0.25000	0.30
200	Dimethyl Disulfide	94	6.213	6.213	(0.810)	1870	0.25000	0.21
139	Diethyl ether	59	1.760	1.760	(0.421)	687	0.25000	0.22
49	Ethyl Methacrylate	69	6.738	6.738	(1.357)	625	0.25000	0.19
142	Tetrahydrofuran	42	3.836	3.836	(0.918)	358	0.50000	(M)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	4360	0.25000	0.25
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	801	0.25000	0.63(M)
3	Chloromethane	50	1.077	1.077	(0.258)	1420	0.25000	2.53
5	Vinyl Chloride	62	1.141	1.141	(0.273)	1134	0.25000	0.28(M)
6	Bromomethane	94	1.340	1.340	(0.321)	1009	0.25000	2.08(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	1468	0.25000	0.26

10 Acetone	43	1.977	1.977 (0.473)	2727	0.50000	2.07
11 1,1-Dichloroethene	96	1.910	1.910 (0.457)	1010	0.25000	0.28(M)

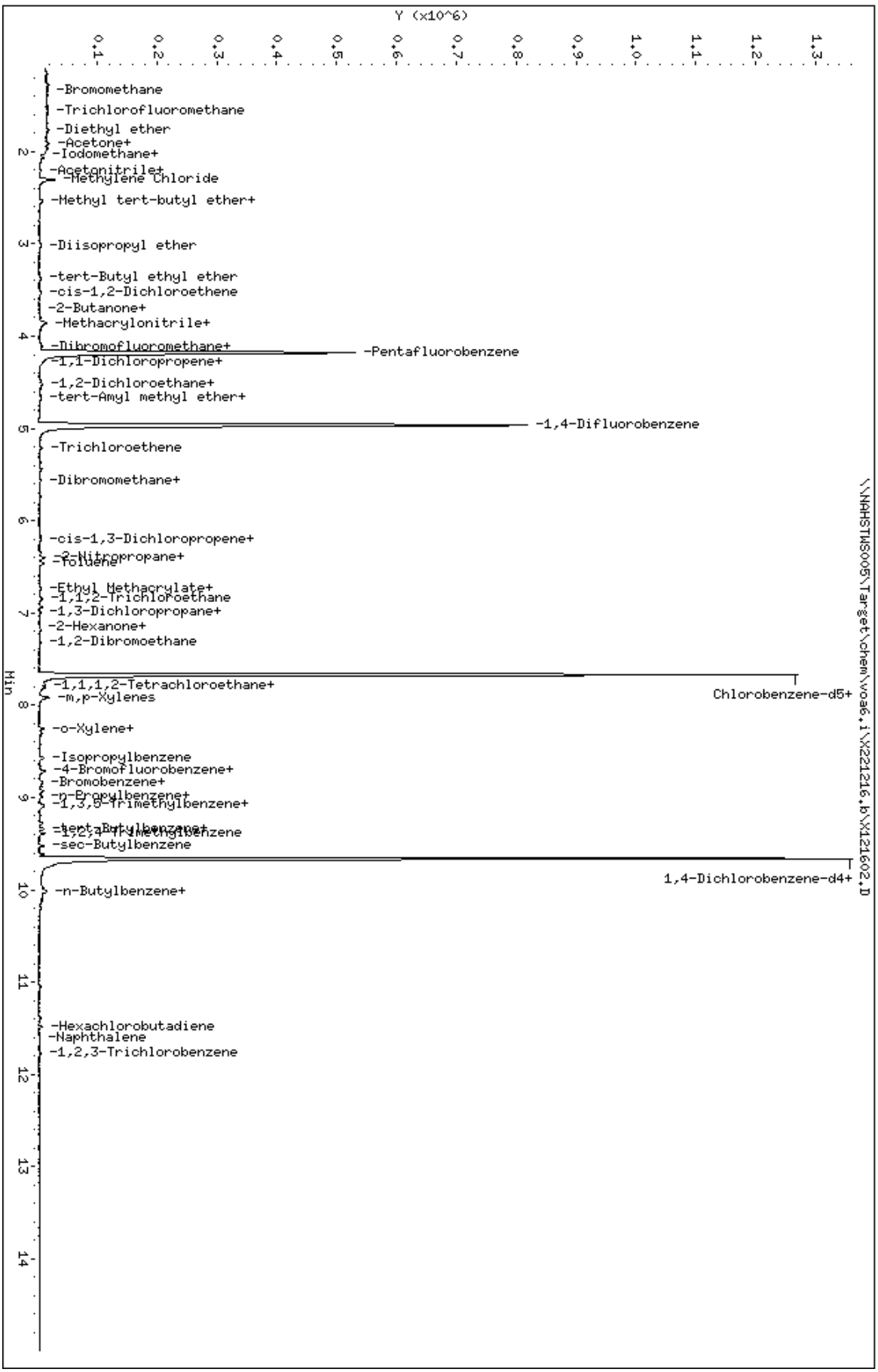
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	1106	0.50000	3.56(T)
	17 Methylene Chloride	84	2.292	2.292	(0.549)	1436	0.25000	0.29(M)
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	2787	0.25000	0.24
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	5999	0.50000	0.65
	20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.608)	1302	0.25000	0.33
	24 2-Butanone	43	3.698	3.698	(0.885)	1014	0.50000	3.74
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	1402	0.25000	0.29
	28 Chloroform	83	3.908	3.908	(0.935)	2553	0.25000	0.33
	29 Bromochloromethane	128	3.799	3.799	(0.909)	802	0.25000	0.30(M)
$	30 Dibromofluoromethane	113	4.103	4.103	(0.982)	1706	0.25000	0.21
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	1648	0.25000	0.26
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	2114	0.25000	0.43
	33 1,2-Dichloroethane	62	4.571	4.571	(0.921)	2167	0.25000	0.38
	34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	1685	0.25000	0.32(M)
$	35 1,2-Dichloroethane-d4	65	4.481	4.481	(1.073)	2260	0.25000	0.75(T)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	690224	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	5768	0.25000	0.34
	38 Trichloroethene	130	5.212	5.212	(1.050)	1544	0.25000	0.33
	44 Dibromomethane	93	5.565	5.565	(1.121)	1046	0.25000	0.35
	45 4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	2297	0.50000	0.65
	46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	1839	0.25000	0.25
*	47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	653787	50.0000	
$	48 Toluene-d8	98	6.401	6.401	(0.834)	6828	0.25000	0.42(T)
	50 Toluene	91	6.457	6.457	(0.842)	6778	0.25000	0.37
	52 2-Hexanone	43	7.150	7.150	(0.932)	974	0.50000	0.40(T)
	53 1,1,2-Trichloroethane	83	6.847	6.847	(0.893)	1098	0.25000	0.30
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	2278	0.25000	0.31
	55 Dibromochloromethane	129	7.184	7.184	(0.936)	1732	0.25000	0.33
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	1051	0.25000	0.28
	57 1,2-Dibromoethane	107	7.278	7.278	(0.949)	1100	0.25000	0.24
	58 1-Chlorohexane	55	7.668	7.668	(1.544)	6570	0.25000	1.96
	59 Chlorobenzene	112	7.694	7.694	(1.003)	3981	0.25000	0.31
	60 1,1,1,2-Tetrachloroethane	131	7.780	7.780	(1.014)	1245	0.25000	0.26
	61 Ethylbenzene	106	7.810	7.810	(1.018)	1854	0.25000	0.30
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	5083	0.50000	0.65
	63 o-Xylene	106	8.252	8.252	(1.076)	2471	0.25000	0.32
	64 Styrene	104	8.297	8.297	(1.082)	3214	0.25000	0.24
	67 Isopropylbenzene	105	8.575	8.575	(1.118)	5495	0.25000	0.31
$	69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	4271	0.25000	0.77
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	348702	50.0000	
	71 1,2,3-Trichloropropane	75	8.875	8.875	(0.919)	766	0.25000	0.19(M)
	73 n-Propylbenzene	91	8.931	8.931	(0.924)	5570	0.25000	0.28
	74 Bromobenzene	156	8.826	8.826	(0.913)	1517	0.25000	0.26
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	4893	0.25000	0.34
	76 2-Chlorotoluene	91	8.991	8.991	(0.931)	4890	0.25000	0.38
	77 4-Chlorotoluene	91	9.107	9.107	(0.943)	3881	0.25000	0.26
	78 tert-Butylbenzene	119	9.343	9.343	(0.967)	4059	0.25000	0.34
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	5202	0.25000	0.34
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	4818	0.25000	0.31
	82 p-Isopropyltoluene	119	9.662	9.662	(1.000)	4406	0.25000	0.31
	83 1,3-Dichlorobenzene	146	9.621	9.621	(0.996)	3005	0.25000	0.31
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	3674	0.25000	0.35

87	n-Butylbenzene	91	10.033	10.033 (1.038)	1595	0.25000	1.89
88	1,2-Dichlorobenzene	146	10.010	10.010 (1.036)	2937	0.25000	0.30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	91 Hexachlorobutadiene	225	11.484	11.484	(1.189)	726	0.25000	0.21(M)
	92 Naphthalene	128	11.607	11.607	(1.201)	1969	0.25000	0.14
	93 1,2,3-Trichlorobenzene	180	11.769	11.769	(1.218)	1816	0.25000	0.30(M)
M	94 1,2-Dichloroethylene (total)	96				2704	0.50000	
M	95 Xylenes (total)	106				7554	0.75000	
	141 Cyclohexane	56	4.125	4.125	(0.987)	1235	0.25000	1.51(M)
	138 Freon TF	101	1.917	1.917	(0.459)	765	0.25000	0.22(M)

QC Flag Legend

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



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Date : 16-DEC-2022 11:38
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

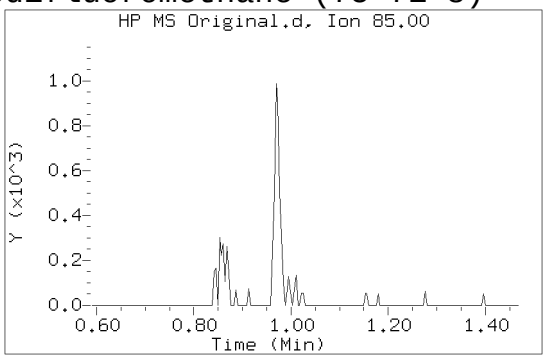
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Dichlorodifluoromethane (75-71-8)

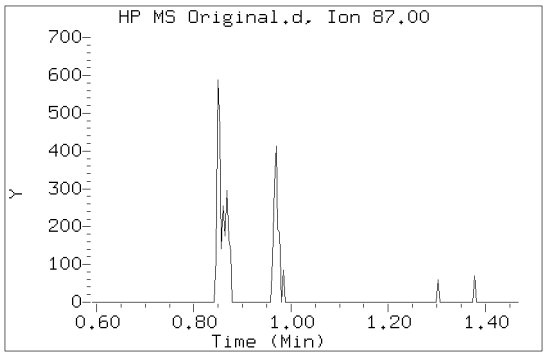
BEFORE

MASS
50
AREA
1420
HEIGHT
1809
16-Dec-2022
11:54
ALSHS
Server



BEFORE

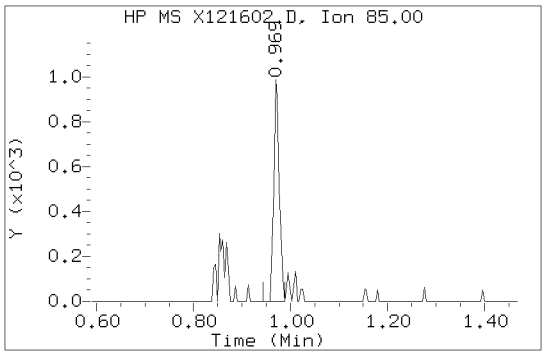
MASS
52
AREA
731
HEIGHT
740
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

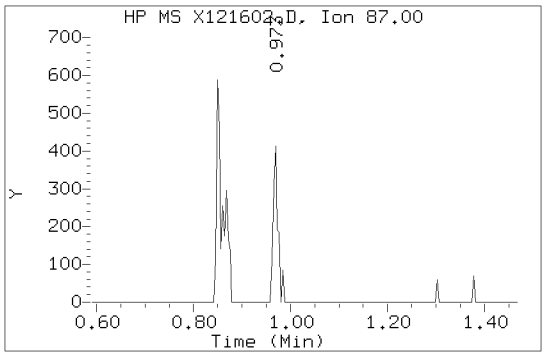
AFTER

MASS
85
AREA
801
HEIGHT
987
27-Dec-2022
16:07
ALSHS
Ser



AFTER

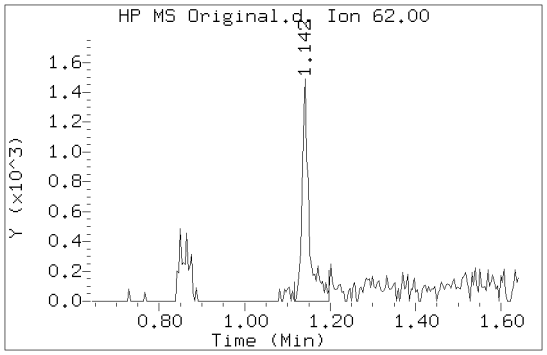
MASS
87
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



Vinyl Chloride (75-01-4)

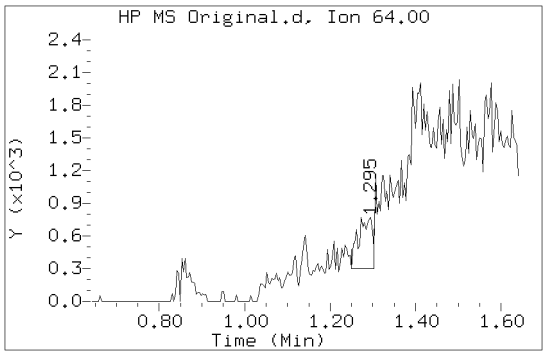
BEFORE

MASS
94
AREA
1572
HEIGHT
983
16-Dec-2022
11:54
ALSHS
Server



BEFORE

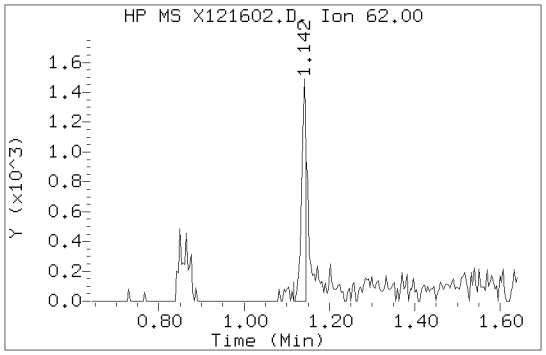
MASS
96
AREA
1330
HEIGHT
961
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

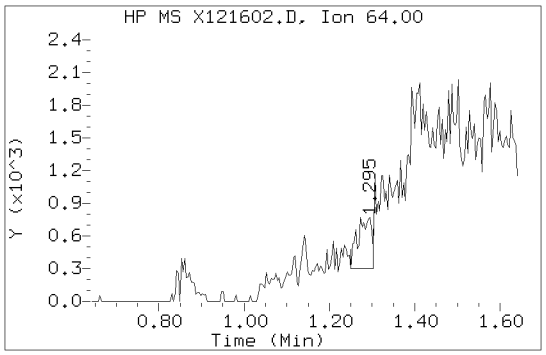
AFTER

MASS
62
AREA
1134
HEIGHT
1490
27-Dec-2022
16:07
ALSHS
Ser



AFTER

MASS
64
AREA
1053
HEIGHT
470
27-Dec-2022
16:07
ALSHS
Ser



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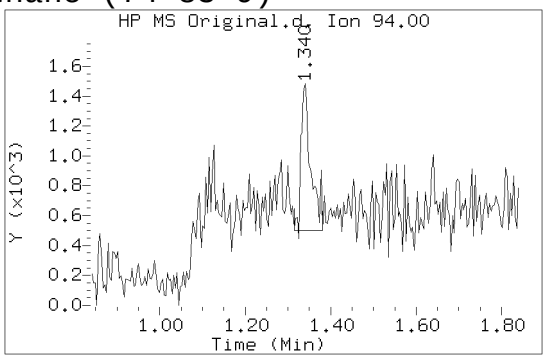
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

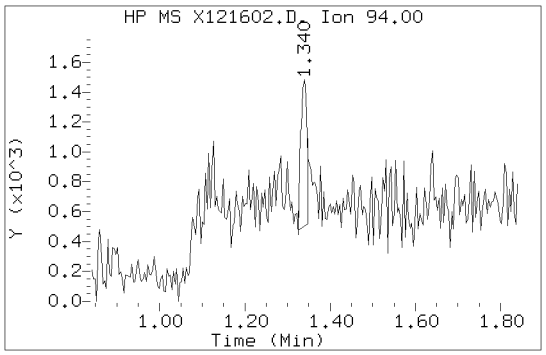
Bromomethane (74-83-9)

Reason Code:

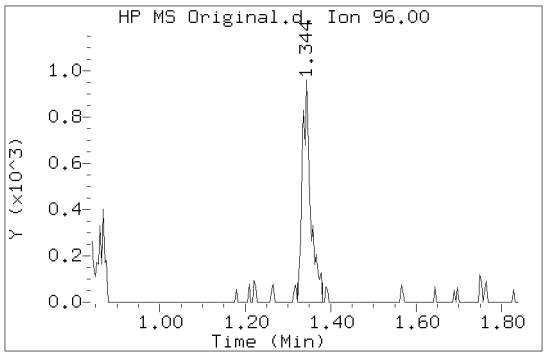
BEFORE
MASS
64
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



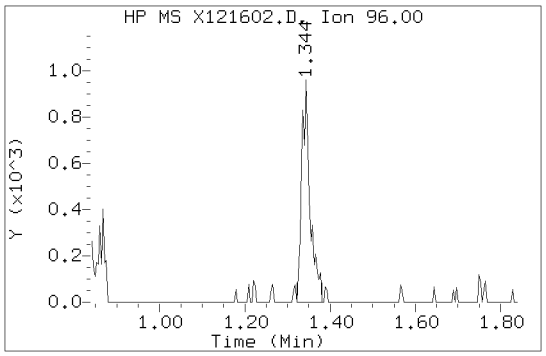
AFTER
MASS
94
AREA
1009
HEIGHT
977
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
66
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



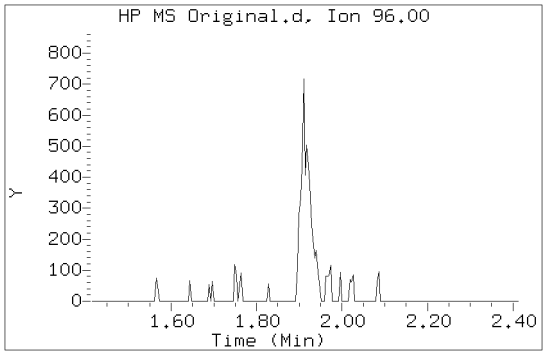
AFTER
MASS
96
AREA
1330
HEIGHT
961
27-Dec-2022
16:07
ALSHS
Ser



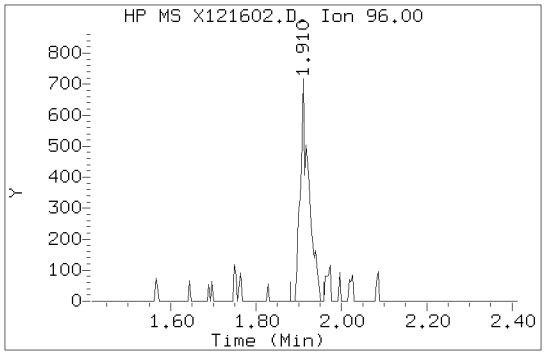
1,1-Dichloroethene (75-35-4)

Reason Code:

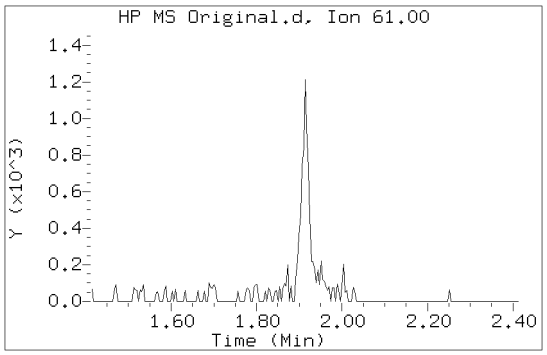
BEFORE
MASS
142
AREA
1106
HEIGHT
699
16-Dec-2022
11:54
ALSHS
Server



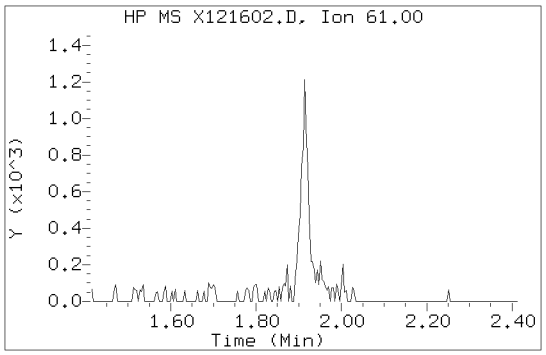
AFTER
MASS
96
AREA
1010
HEIGHT
717
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
127
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



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Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

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

Reason Code:

BEFORE

MASS
141
AREA
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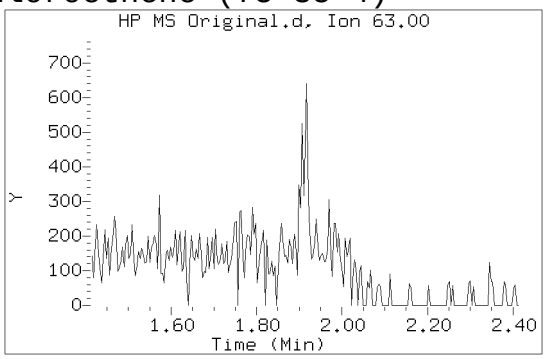
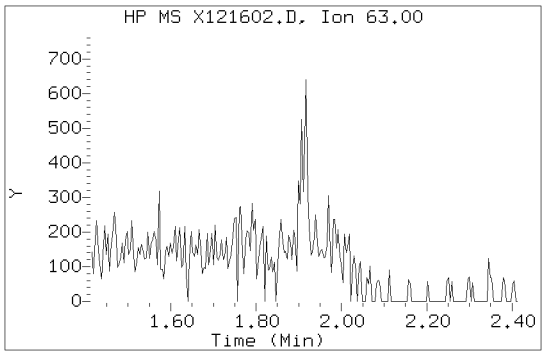
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

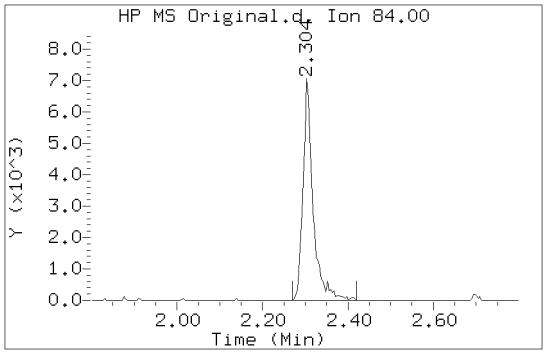


Methylene Chloride (75-09-2)

Reason Code:

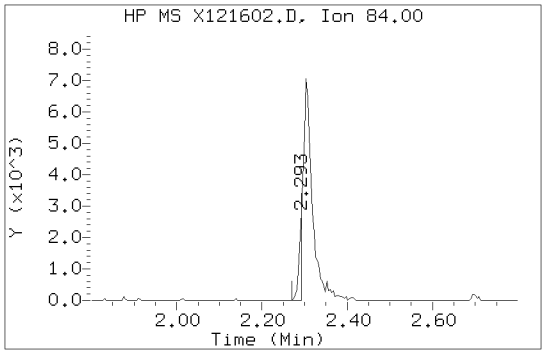
BEFORE

MASS
84
AREA
11777
HEIGHT
7057
16-Dec-2022
11:54
ALSHS
Server



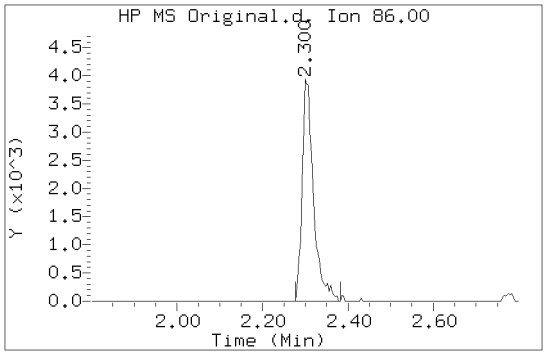
AFTER

MASS
84
AREA
1436
HEIGHT
2786
27-Dec-2022
16:07
ALSHS
Ser



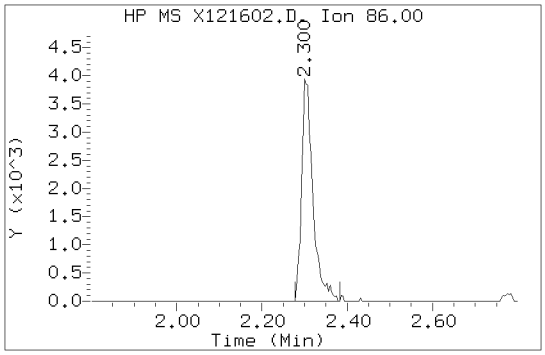
BEFORE

MASS
86
AREA
7453
HEIGHT
3944
16-Dec-2022
11:54
ALSHS
Server



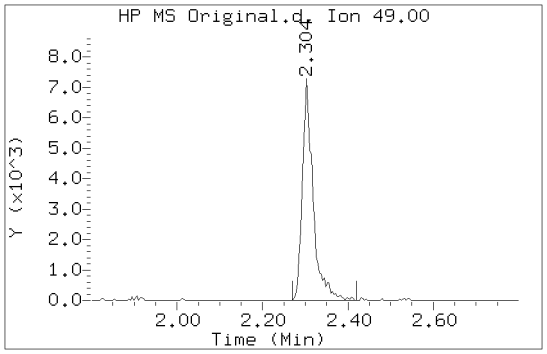
AFTER

MASS
86
AREA
7453
HEIGHT
3944
27-Dec-2022
16:07
ALSHS
Ser



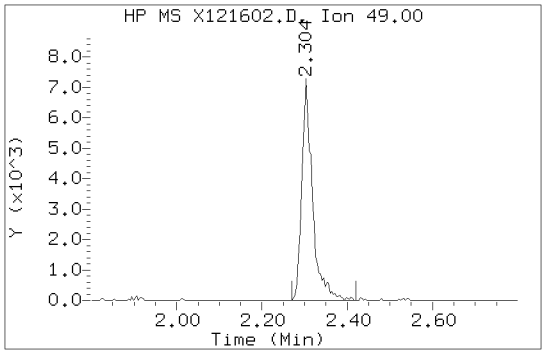
BEFORE

MASS
49
AREA
12974
HEIGHT
7289
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
49
AREA
12974
HEIGHT
7289
27-Dec-2022
16:07
ALSHS
Ser

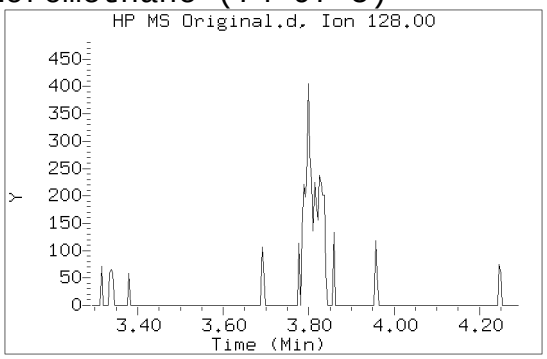


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

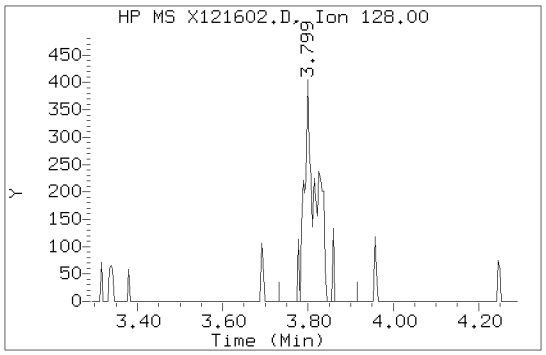
Bromochloromethane (74-97-5)

Reason Code:

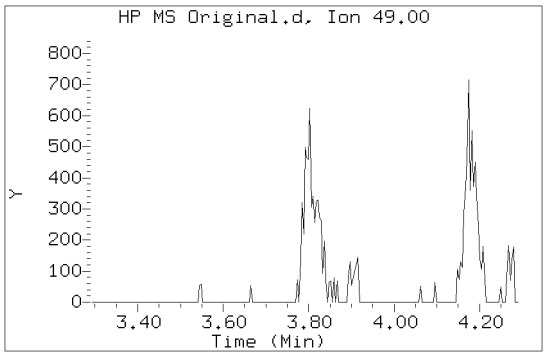
BEFORE
MASS
96
AREA
1402
HEIGHT
854
16-Dec-2022
11:54
ALSHS
Server



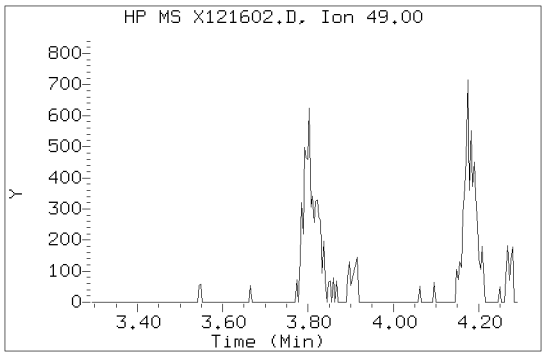
AFTER
MASS
128
AREA
802
HEIGHT
405
27-Dec-2022
16:07
ALSHS
Ser



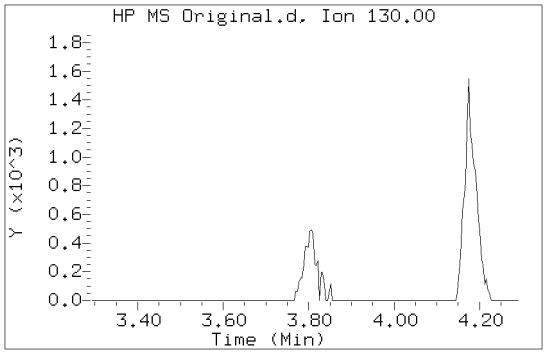
BEFORE
MASS
61
AREA
1975
HEIGHT
828
16-Dec-2022
11:54
ALSHS
Server



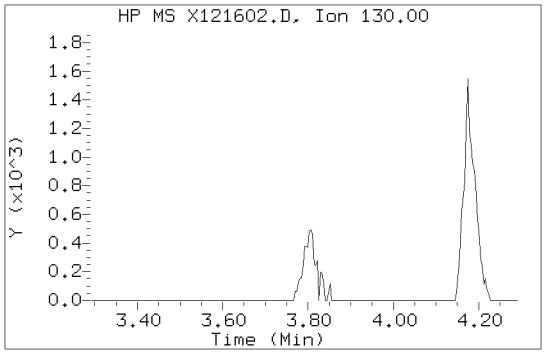
AFTER
MASS
49
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
98
AREA
1027
HEIGHT
608
16-Dec-2022
11:54
ALSHS
Server



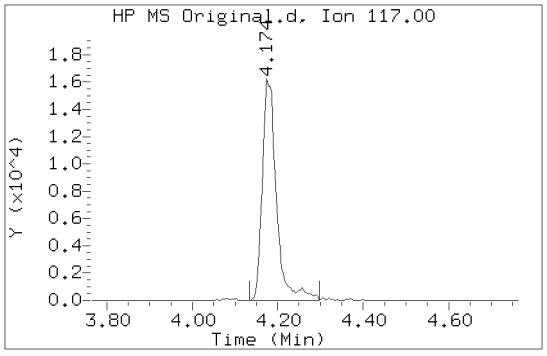
AFTER
MASS
130
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



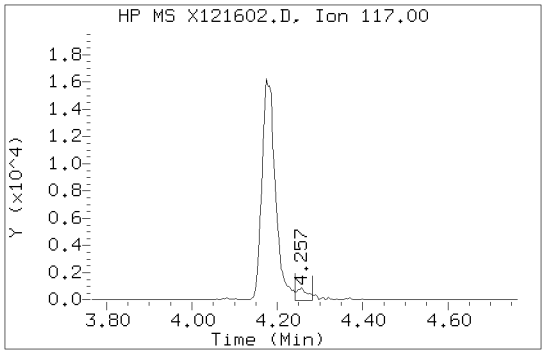
Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
MASS
97
AREA
1700
HEIGHT
1016
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
117
AREA
1685
HEIGHT
944
27-Dec-2022
16:07
ALSHS
Ser



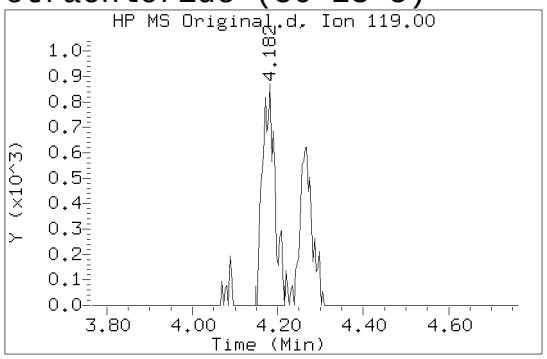
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Carbon Tetrachloride (56-23-5)

Reason Code:

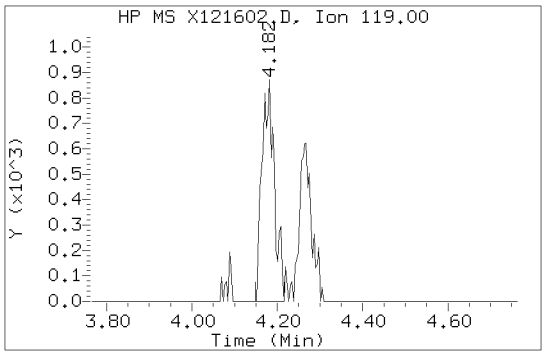
BEFORE

MASS
99
AREA
207130
HEIGHT
91368
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
119
AREA
1748
HEIGHT
872
27-Dec-2022
16:07
ALSHS
Ser

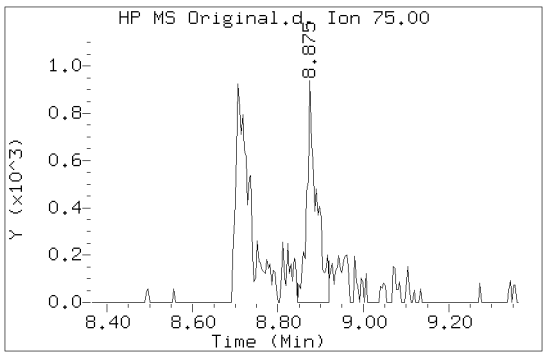


1,2,3-Trichloropropane (96-18-4)

Reason Code:

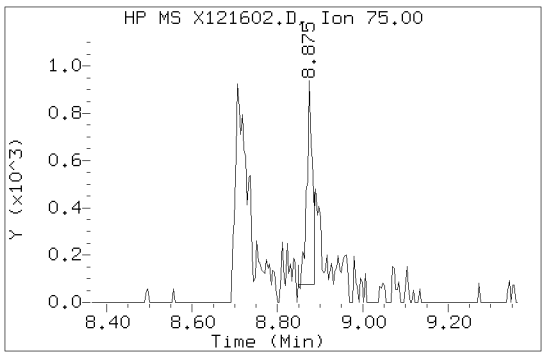
BEFORE

MASS
152
AREA
348702
HEIGHT
242350
16-Dec-2022
11:54
ALSHS
Server



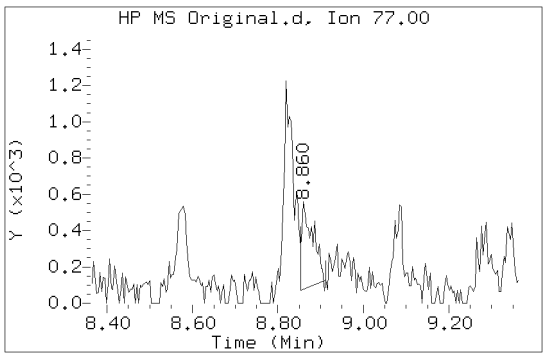
AFTER

MASS
75
AREA
766
HEIGHT
862
27-Dec-2022
16:07
ALSHS
Ser



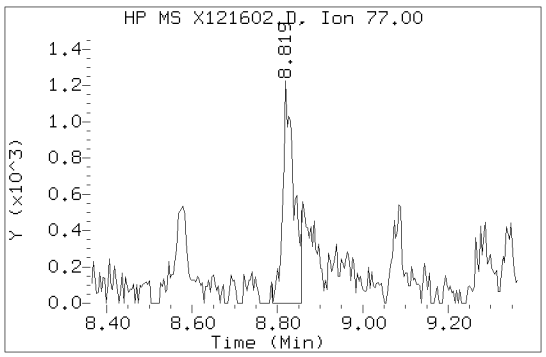
BEFORE

MASS
115
AREA
184413
HEIGHT
133835
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
77
AREA
2223
HEIGHT
1225
27-Dec-2022
16:07
ALSHS
Ser

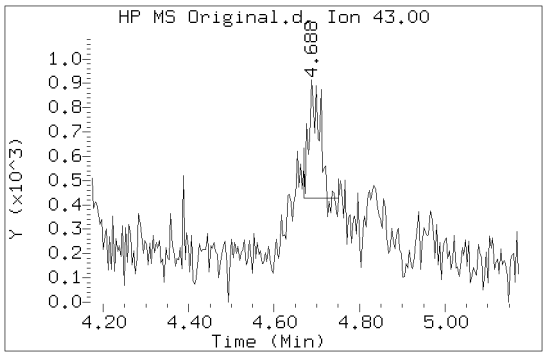


Isobutyl Alcohol (78-83-1)

Reason Code:

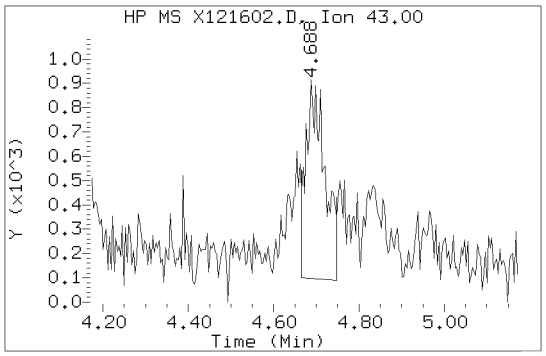
BEFORE

MASS
75
AREA
1475
HEIGHT
938
16-Dec-2022
11:54
ALSHS
Server



AFTER

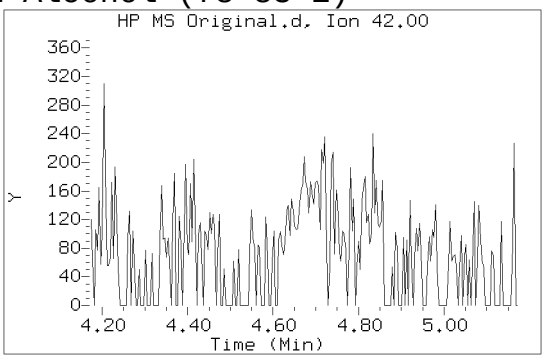
MASS
43
AREA
2537
HEIGHT
816
27-Dec-2022
16:07
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

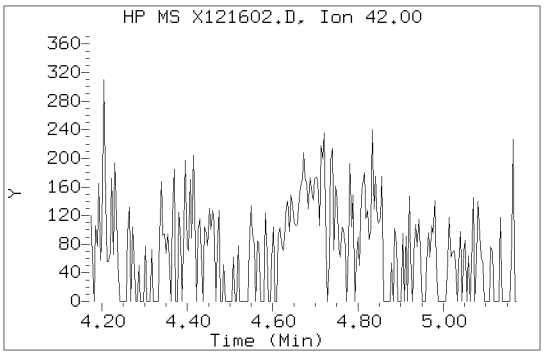
Isobutyl Alcohol (78-83-1)

BEFORE
MASS
77
AREA
888
HEIGHT
483
16-Dec-2022
11:54
ALSHS
Server



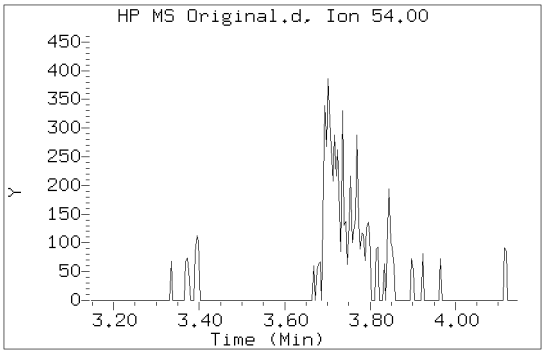
Reason Code:

AFTER
MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



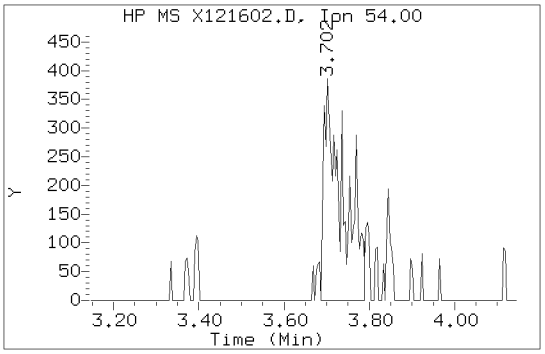
Propionitrile (107-12-0)

BEFORE
MASS
91
AREA
3881
HEIGHT
1822
16-Dec-2022
11:54
ALSHS
Server

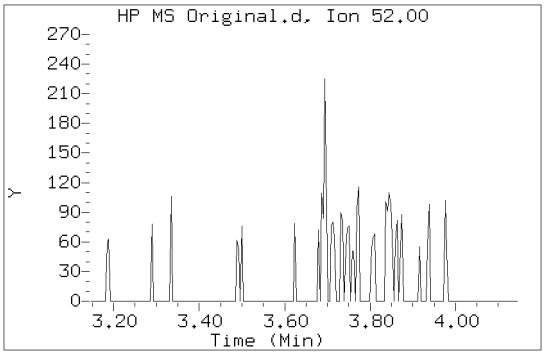


Reason Code:

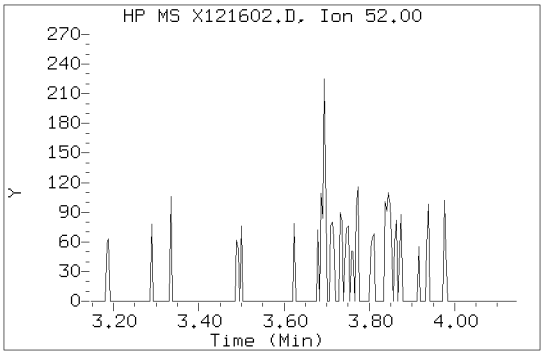
AFTER
MASS
54
AREA
1165
HEIGHT
386
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
126
AREA
1511
HEIGHT
914
16-Dec-2022
11:54
ALSHS
Server

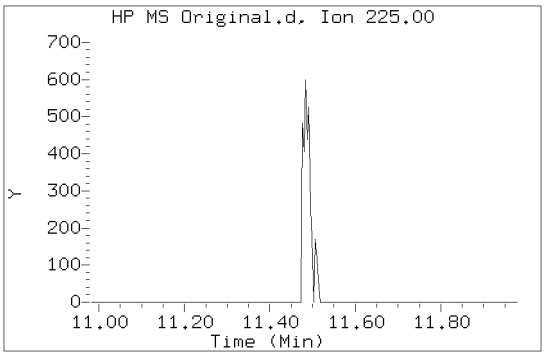


AFTER
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



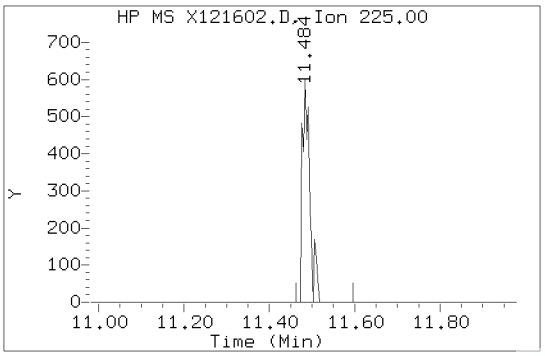
Hexachlorobutadiene (87-68-3)

BEFORE
MASS
155
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



Reason Code:

AFTER
MASS
225
AREA
726
HEIGHT
599
27-Dec-2022
16:07
ALSHS
Ser

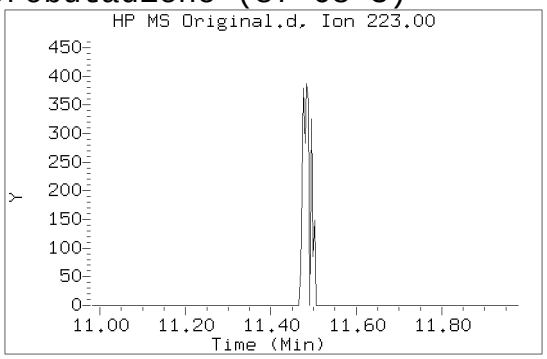


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

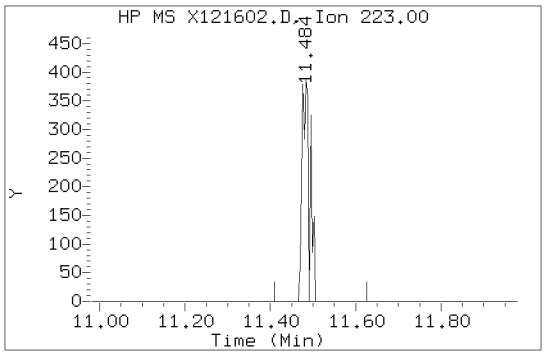
Hexachlorobutadiene (87-68-3)

Reason Code:

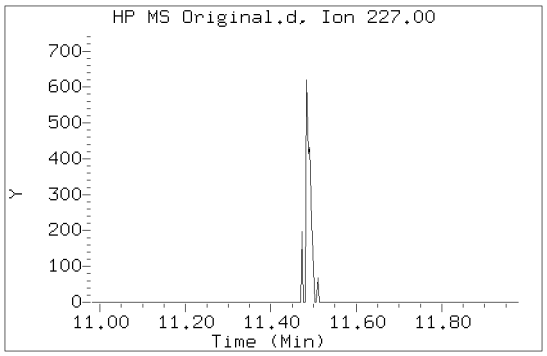
BEFORE
MASS
157
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



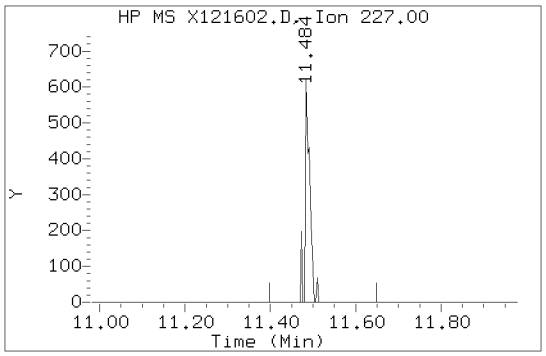
AFTER
MASS
223
AREA
502
HEIGHT
387
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
75
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



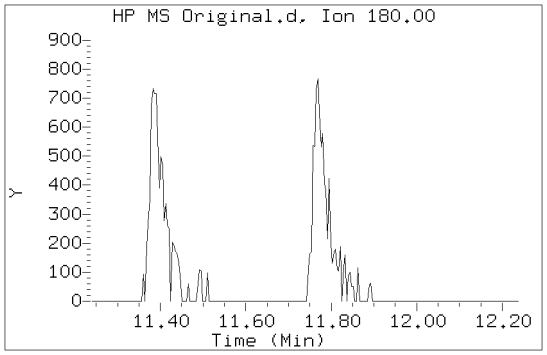
AFTER
MASS
227
AREA
469
HEIGHT
620
27-Dec-2022
16:07
ALSHS
Ser



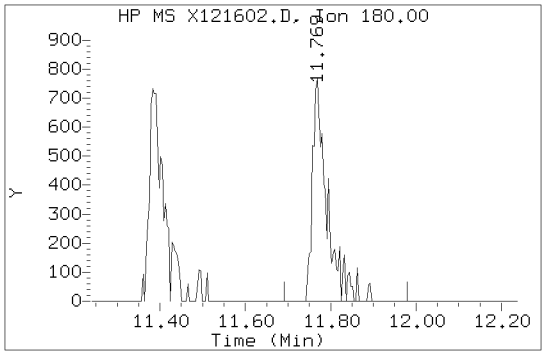
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

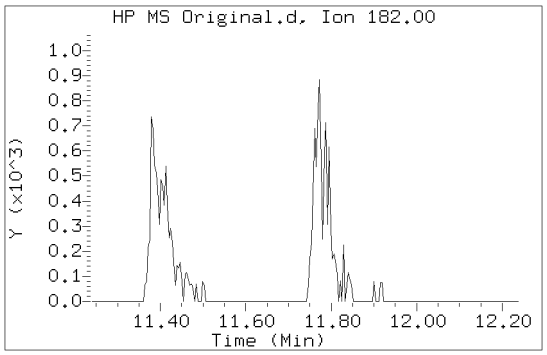
BEFORE
MASS
225
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



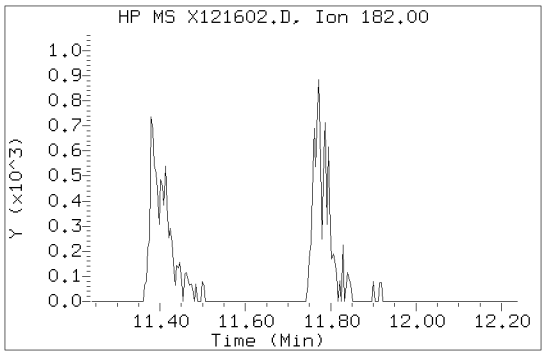
AFTER
MASS
180
AREA
1816
HEIGHT
766
27-Dec-2022
16:07
ALSHS
Ser



BEFORE
MASS
223
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER
MASS
182
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



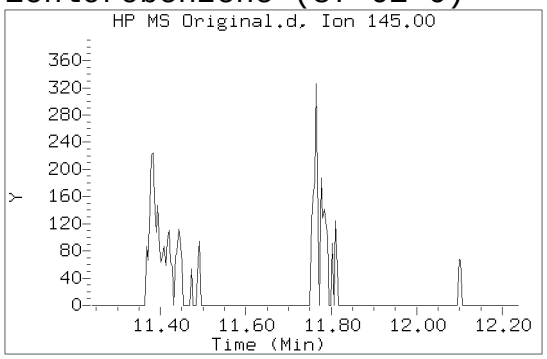
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

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

Reason Code:

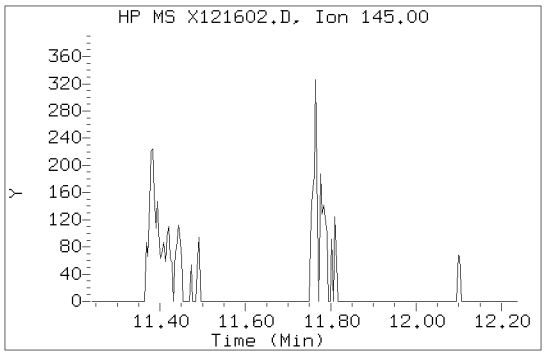
BEFORE

MASS
227
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
145
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

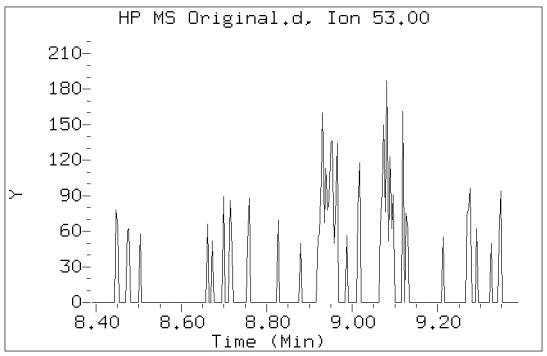


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

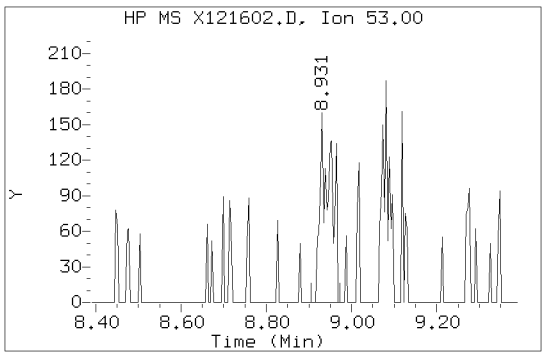
BEFORE

MASS
53
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



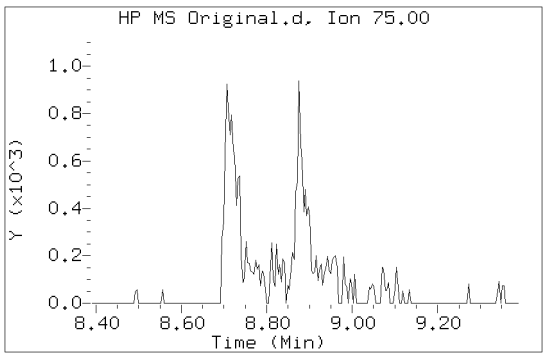
AFTER

MASS
53
AREA
280
HEIGHT
160
27-Dec-2022
16:07
ALSHS
Ser



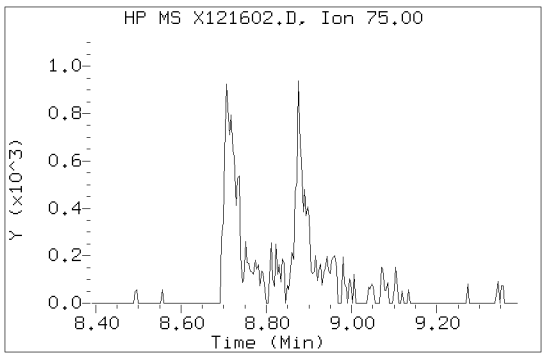
BEFORE

MASS
88
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

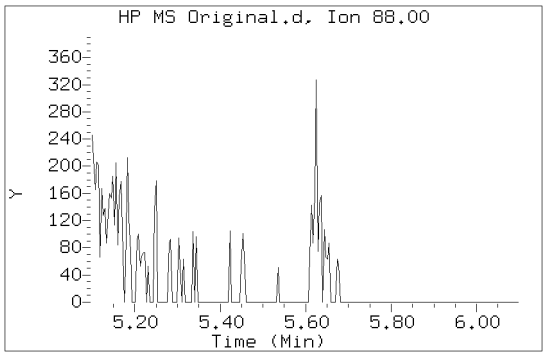


1,4-Dioxane ()

Reason Code:

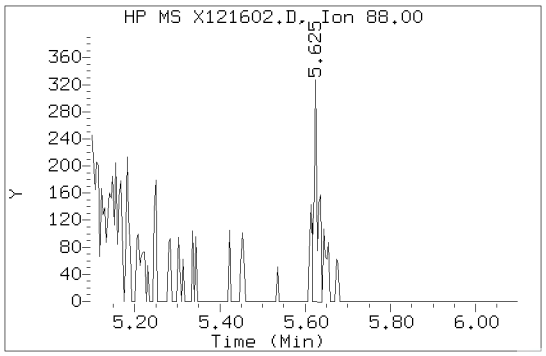
BEFORE

MASS
57
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
88
AREA
214
HEIGHT
327
27-Dec-2022
16:07
ALSHS
Ser



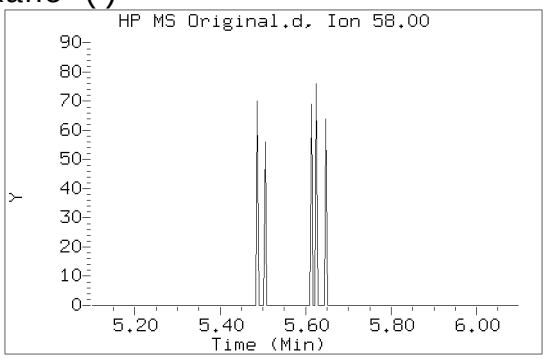
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

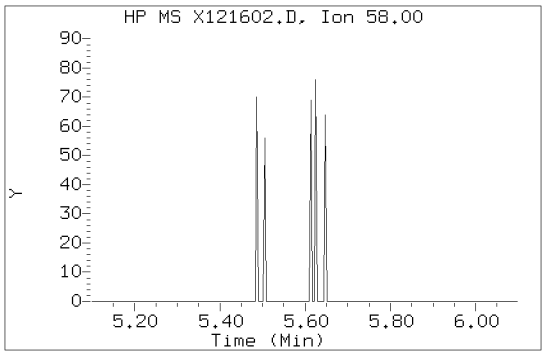
BEFORE

MASS
41
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

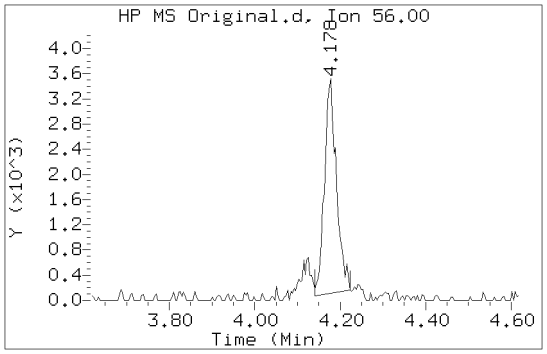


Cyclohexane (110-82-7)

Reason Code:

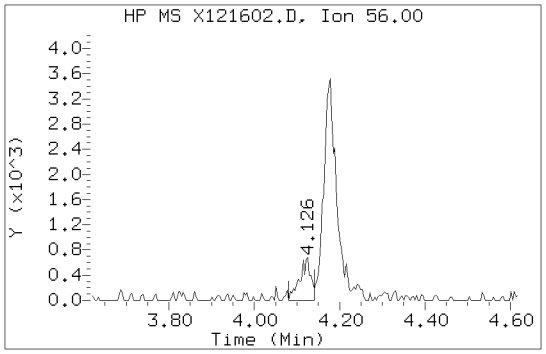
BEFORE

MASS
42
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



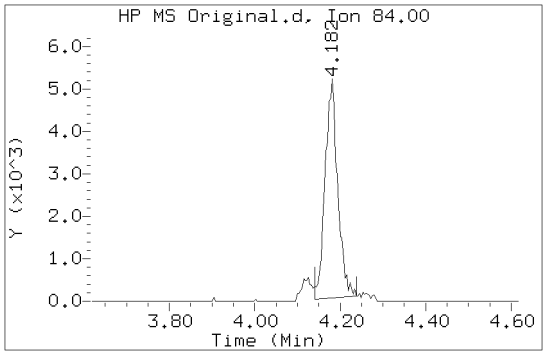
AFTER

MASS
56
AREA
1235
HEIGHT
682
27-Dec-2022
16:07
ALSHS
Ser



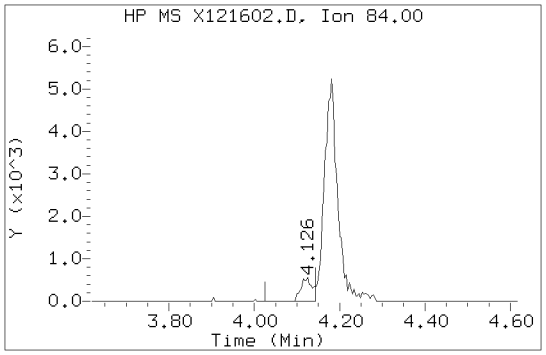
BEFORE

MASS
71
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
84
AREA
1062
HEIGHT
557
27-Dec-2022
16:07
ALSHS
Ser



Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

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16-Dec-2022
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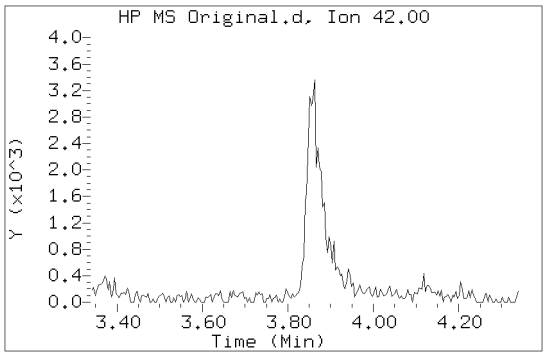

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27-Dec-2022
16:07
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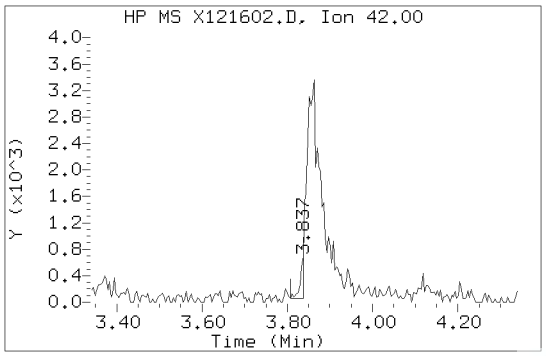

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Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

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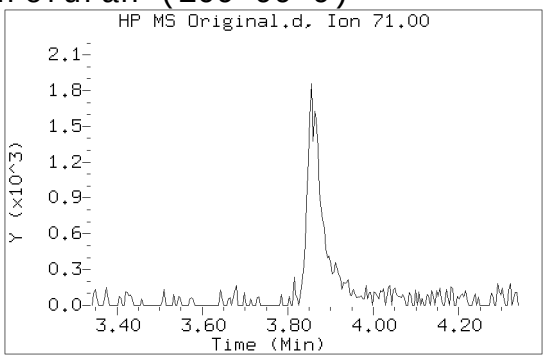
16-Dec-2022
11:54
ALSHS
Server



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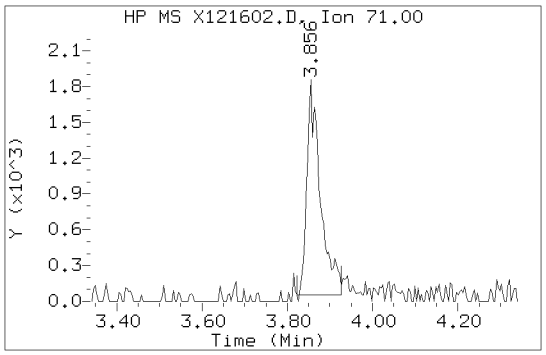

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Reason Code:

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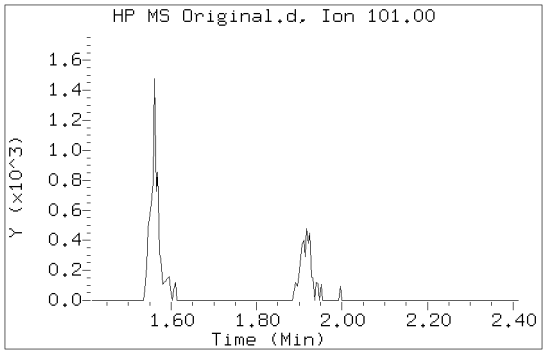

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16:07
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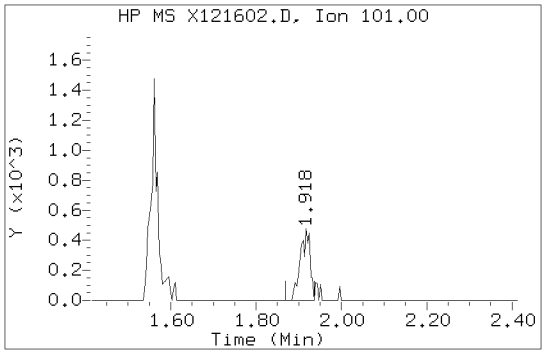

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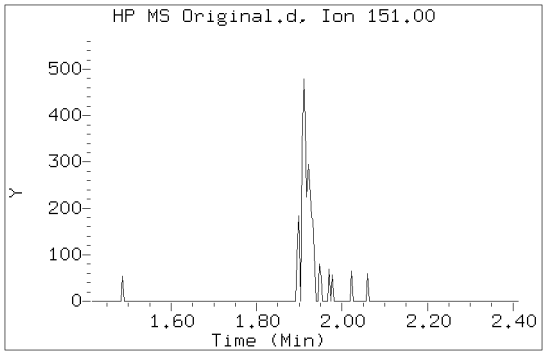

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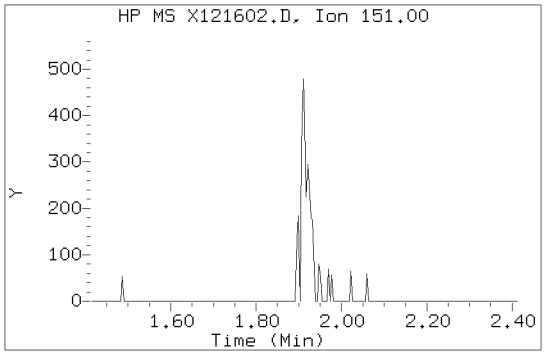
16:07
ALSHS
Ser



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Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
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Inj Date : 16-DEC-2022 12:20
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 11:38 Cal File: X121602.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	461469	50.0000	
135	1,4-Dioxane	88	5.625	5.625	(1.346)	462	10.0000	10.95(M)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	1793	0.50000	0.56(M)
25	Methacrylonitrile	41	3.848	3.848	(0.921)	2066	0.50000	0.63(M)
12	Isobutyl Alcohol	43	4.695	4.695	(1.124)	5178	10.0000	9.97(M)
13	Acetonitrile	39	2.210	2.210	(0.529)	2204	5.00000	5.24(M)
14	Allyl Chloride	41	2.206	2.206	(0.528)	4574	0.50000	0.57(M)
4	Propionitrile	54	3.686	3.686	(0.882)	2777	5.00000	5.89(M)
136	n-Hexane	57	2.772	2.772	(0.664)	1909	0.50000	0.57(M)
72	trans-1,4-Dichloro-2-butene	53	8.931	8.931	(1.165)	792	0.50000	0.56(M)
23	Chloroprene	53	1.771	1.771	(0.424)	900	0.50000	0.57(M)
145	alpha-Methylstyrene	118	9.272	9.272	(0.960)	4701	0.50000	0.60
200	Dimethyl Disulfide	94	6.202	6.202	(0.809)	5153	0.50000	0.59(M)
139	Diethyl ether	59	1.760	1.760	(0.421)	1864	0.50000	0.60
130	Ethyl Acetate	43	3.679	3.679	(0.881)	2065	0.50000	0.57(M)
40	Methyl Methacrylate	41	5.628	5.628	(1.347)	1788	0.50000	0.56(M)
49	Ethyl Methacrylate	69	6.727	6.727	(1.355)	1935	0.50000	0.59(M)
132	n-Butanol	56	5.291	5.291	(1.266)	622	10.0000	50.83(M)
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	900	1.00000	(M)
150	Allyl alcohol	57	2.772	2.772	(0.664)	3089	10.0000	17.23

166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	9626	0.50000	0.57(M)
131 Methyl Acrylate	55	3.743	3.743 (0.896)	1765	0.50000	0.56(M)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D Page 2
Report Date: 27-Dec-2022 16:07

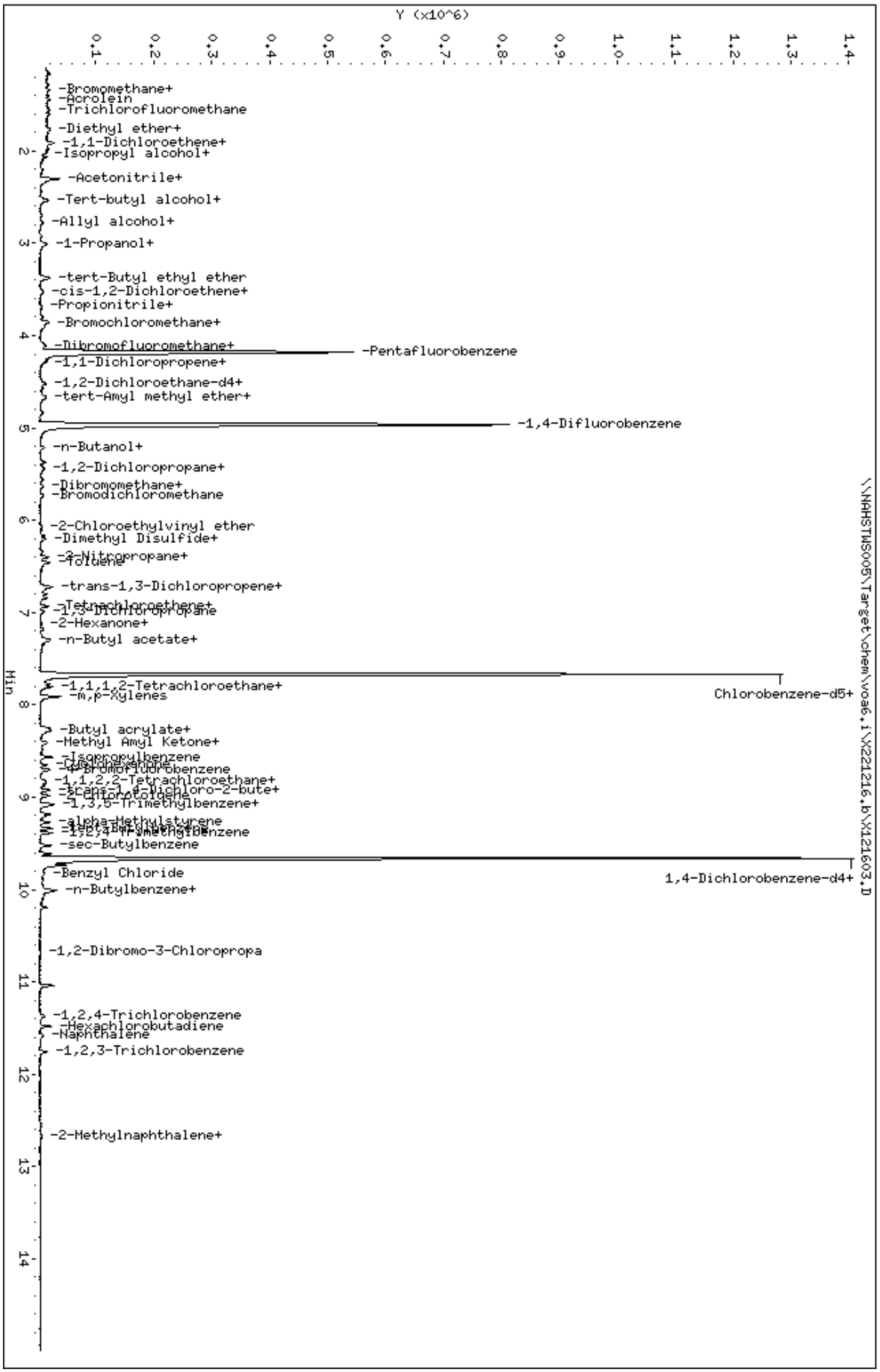
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	162	Butyl acrylate	55	8.271	8.271	(1.079)	4718	0.50000	0.55(M)
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1990	0.50000	1.00(M)
	3	Chloromethane	50	1.077	1.077	(0.258)	2466	0.50000	2.77(M)
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	2412	0.50000	0.59(M)
	6	Bromomethane	94	1.336	1.336	(0.320)	1893	0.50000	2.36(M)
	7	Chloroethane	64	1.407	1.407	(0.337)	1653	0.50000	0.58(M)
	8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	3286	0.50000	0.58(M)
	9	Acrolein	56	1.441	1.441	(0.345)	440	1.00000	4.17(M)
	10	Acetone	43	1.977	1.977	(0.473)	2669	1.00000	2.02(M)
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	2037	0.50000	0.58(M)
	15	Iodomethane	142	2.026	2.026	(0.485)	2397	1.00000	3.84(TM)
	16	Acrylonitrile	53	2.566	2.566	(0.614)	1118	1.00000	0.94(M)
	17	Methylene Chloride	84	2.296	2.296	(0.550)	2938	0.50000	0.61(M)
	18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	5841	0.50000	0.50(M)
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	9921	1.00000	1.08(M)
	20	trans-1,2-Dichloroethene	96	2.543	2.543	(0.609)	2218	0.50000	0.56(M)
	21	Vinyl Acetate	43	3.023	3.023	(0.724)	10138	1.00000	1.00(M)
	22	1,1-Dichloroethane	63	2.926	2.926	(0.700)	3874	0.50000	0.56(M)
	24	2-Butanone	43	3.649	3.649	(0.873)	1292	1.00000	3.93(M)
	26	2,2-Dichloropropane	77	3.514	3.514	(0.841)	3238	0.50000	0.55(M)
	27	cis-1,2-Dichloroethene	96	3.544	3.544	(0.848)	2852	0.50000	0.59
	28	Chloroform	83	3.908	3.908	(0.935)	4040	0.50000	0.52(M)
	29	Bromochloromethane	128	3.799	3.799	(0.909)	1481	0.50000	0.56
$	30	Dibromofluoromethane	113	4.110	4.110	(0.984)	2321	0.50000	0.35
	31	1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	3512	0.50000	0.57(M)
	32	1,1-Dichloropropene	75	4.290	4.290	(0.864)	2468	0.50000	0.50(M)
	33	1,2-Dichloroethane	62	4.567	4.567	(0.920)	3129	0.50000	0.55(M)
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	2763	0.50000	0.52(MH)
$	35	1,2-Dichloroethane-d4	65	4.481	4.481	(1.073)	2849	0.50000	0.87(T)
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	687671	50.0000	
	37	Benzene	78	4.519	4.519	(0.910)	9243	0.50000	0.56
	38	Trichloroethene	130	5.216	5.216	(1.051)	2583	0.50000	0.55(M)
	39	Bromodichloromethane	83	5.730	5.730	(1.154)	3650	0.50000	0.59(M)
	41	2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	1861	1.00000	1.06(M)
	42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	2449	0.50000	0.56(M)
	44	Dibromomethane	93	5.557	5.557	(1.119)	1725	0.50000	0.58
	45	4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	3741	1.00000	1.08(M)
	46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	3695	0.50000	0.51(M)
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	645291	50.0000	
$	48	Toluene-d8	98	6.401	6.401	(0.835)	9525	0.50000	0.59
	50	Toluene	91	6.460	6.460	(0.843)	10374	0.50000	0.58(M)
	51	trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	3042	0.50000	0.50
	52	2-Hexanone	43	7.117	7.117	(0.928)	2580	1.00000	1.09
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	2092	0.50000	0.58(M)
	54	1,3-Dichloropropane	76	6.993	6.993	(0.912)	4005	0.50000	0.56(M)
	55	Dibromochloromethane	129	7.180	7.180	(0.936)	2827	0.50000	0.54
	56	Tetrachloroethene	164	6.933	6.933	(0.904)	2131	0.50000	0.57(M)
	57	1,2-Dibromoethane	107	7.270	7.270	(0.948)	2340	0.50000	0.52(M)
	58	1-Chlorohexane	55	7.705	7.705	(1.552)	1829	0.50000	0.55(MH)
	59	Chlorobenzene	112	7.694	7.694	(1.003)	7747	0.50000	0.61
	60	1,1,1,2-Tetrachloroethane	131	7.784	7.784	(1.015)	2741	0.50000	0.58(M)
	61	Ethylbenzene	106	7.806	7.806	(1.018)	3064	0.50000	0.51(M)

62 m,p-Xylenes	106	7.911	7.911 (1.032)	9016	1.00000	1.17(M)
63 o-Xylene	106	8.252	8.252 (1.076)	4412	0.50000	0.58(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	64 Styrene	104	8.286	8.286	(1.081)	6634	0.50000	0.52(M)
	66 Bromoform	173	8.421	8.421	(1.098)	2013	0.50000	0.56(TM)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	8757	0.50000	0.50(M)
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	3194	0.50000	0.57(M)
$	69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	3870	0.50000	0.71(M)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	347824	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2019	0.50000	0.52(M)
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	11163	0.50000	0.57(M)
	74 Bromobenzene	156	8.818	8.818	(0.913)	3147	0.50000	0.55(M)
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	7182	0.50000	0.50(M)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	6718	0.50000	0.53(M)
	77 4-Chlorotoluene	91	9.088	9.088	(0.941)	7644	0.50000	0.53(M)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	6389	0.50000	0.54(M)
	79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	8496	0.50000	0.56(M)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	7938	0.50000	0.51(M)
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	7343	0.50000	0.52(M)
	83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	4677	0.50000	0.49(M)
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	5674	0.50000	0.54(M)
	86 Benzyl Chloride	91	9.831	9.831	(1.282)	3642	0.50000	3.03
	87 n-Butylbenzene	91	10.014	10.014	(1.036)	5149	0.50000	2.14(M)
	88 1,2-Dichlorobenzene	146	10.010	10.010	(1.036)	5504	0.50000	0.56(M)
	89 1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	441	0.50000	0.58(M)
	90 1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	3187	0.50000	0.51(M)
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	1477	0.50000	0.49(M)
	92 Naphthalene	128	11.581	11.581	(1.199)	7025	0.50000	0.50
	93 1,2,3-Trichlorobenzene	180	11.765	11.765	(1.218)	3572	0.50000	0.60(M)
M	94 1,2-Dichloroethylene (total)	96				5070	1.00000	
M	95 Xylenes (total)	106				13428	1.50000	
	141 Cyclohexane	56	4.114	4.114	(0.985)	2803	0.50000	1.84(M)
	138 Freon TF	101	1.917	1.917	(0.459)	1851	0.50000	0.54(M)
	147 Methylcyclohexane	55	5.415	5.415	(1.091)	4781	0.50000	0.56(M)
	146 Methyl Acetate	43	2.240	2.240	(0.536)	1269	0.50000	0.61(M)

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D

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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

m,p-Xylenes ()

Reason Code:

BEFORE
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AREA
10070
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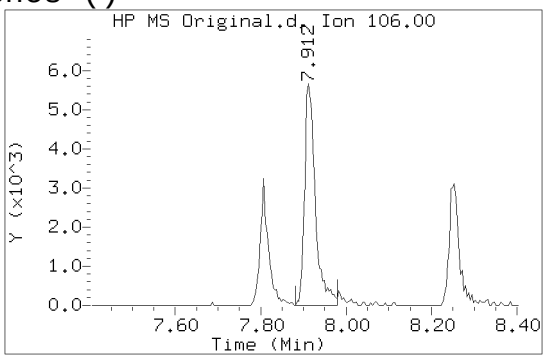
5666
27-Dec-2022
16:03
linh
pham



AFTER
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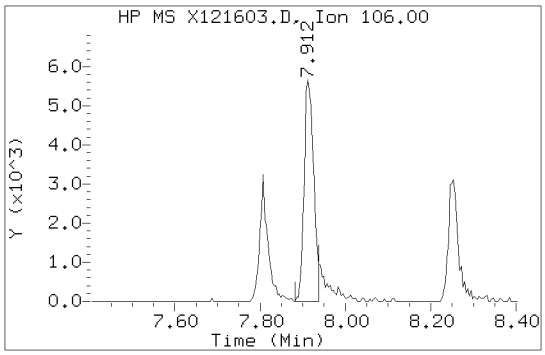

BEFORE
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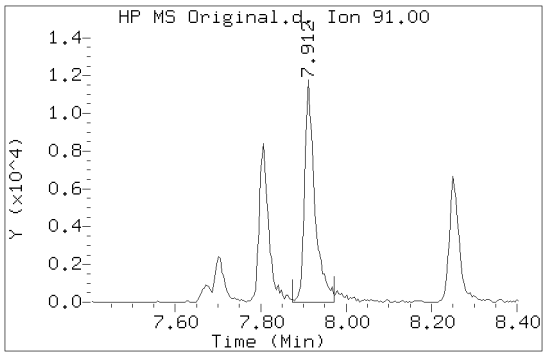

AFTER
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27-Dec-2022
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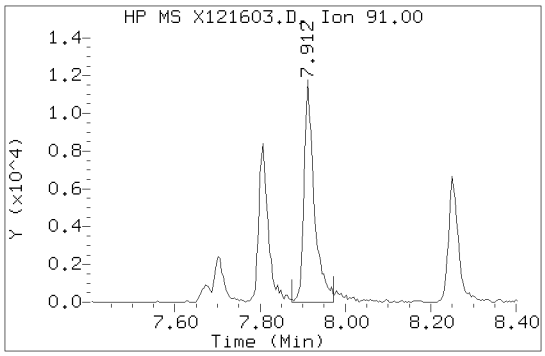

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE
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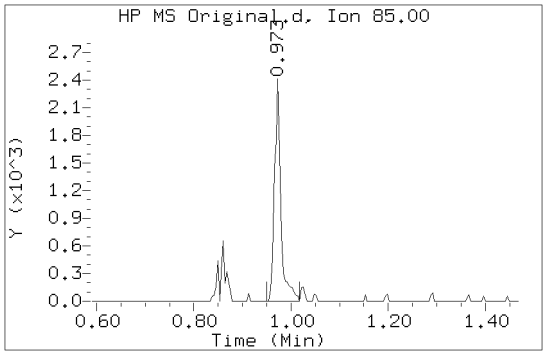
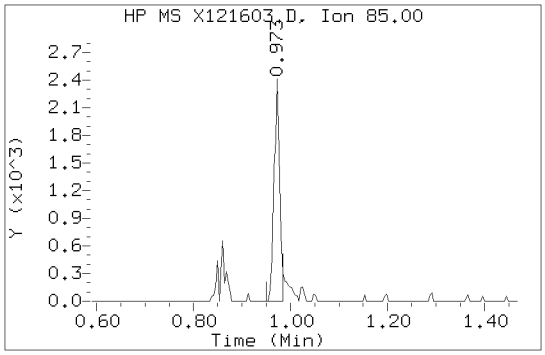
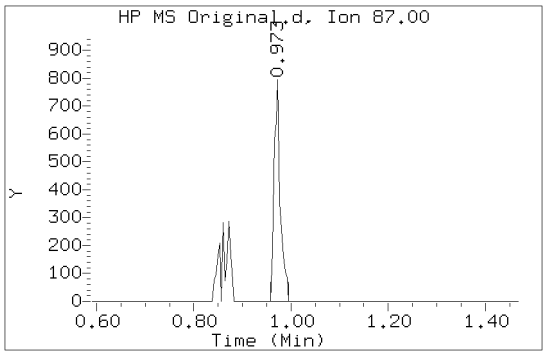
27-Dec-2022
16:03
linh
pham



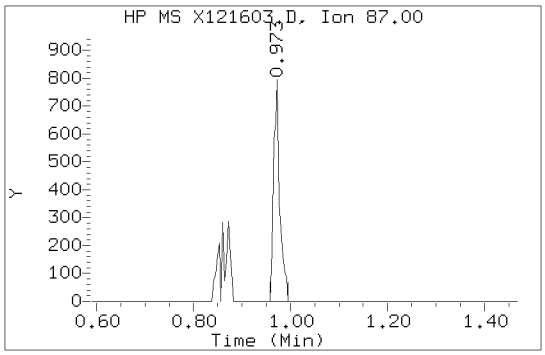
AFTER
MASS
85
AREA
1990
HEIGHT
2413
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
87
AREA
713
HEIGHT
795
27-Dec-2022
16:03
linh
pham



AFTER
MASS
87
AREA
713
HEIGHT
795
27-Dec-2022
16:07
linh
pham

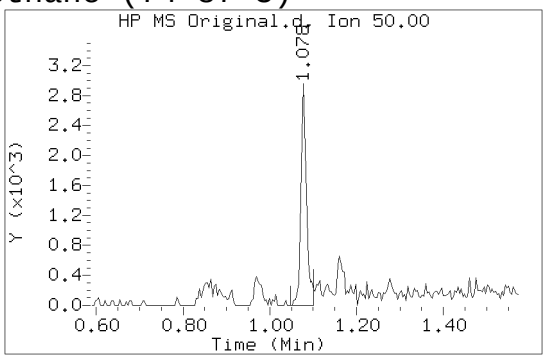


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Chloromethane (74-87-3)

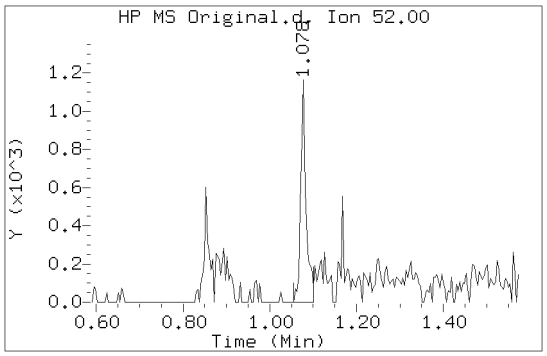
BEFORE

MASS
50
AREA
2589
HEIGHT
2959
27-Dec-2022
16:03
linh
pham



BEFORE

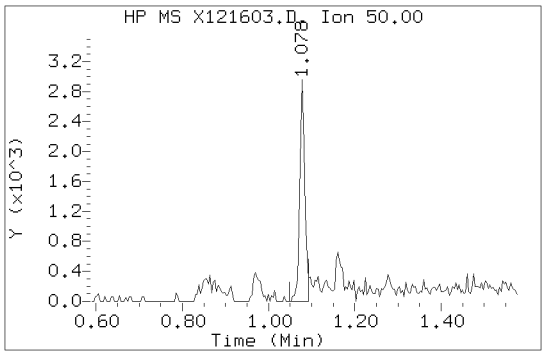
MASS
52
AREA
985
HEIGHT
1164
27-Dec-2022
16:03
linh
pham



Reason Code:

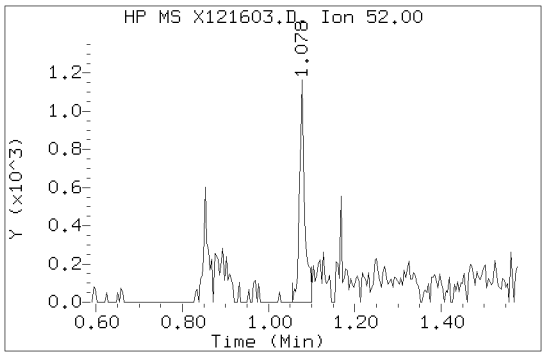
AFTER

MASS
50
AREA
2466
HEIGHT
2959
27-Dec-2022
16:07
linh
pham



AFTER

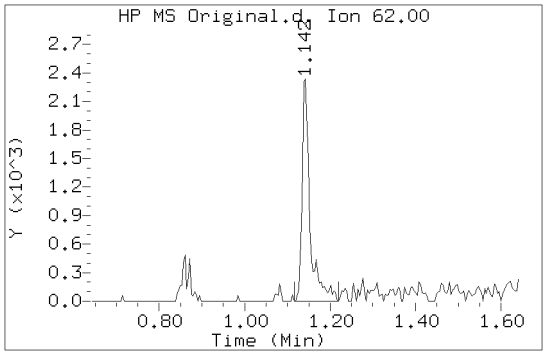
MASS
52
AREA
985
HEIGHT
1164
27-Dec-2022
16:07
linh
pham



Vinyl Chloride (75-01-4)

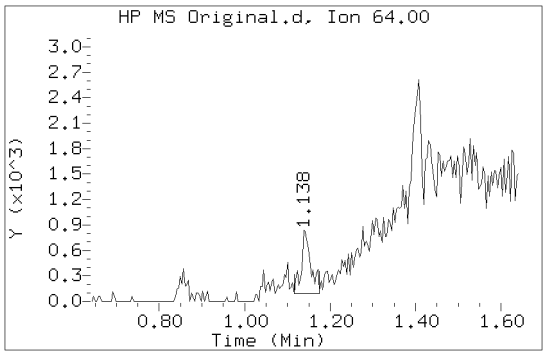
BEFORE

MASS
62
AREA
3132
HEIGHT
2337
27-Dec-2022
16:03
linh
pham



BEFORE

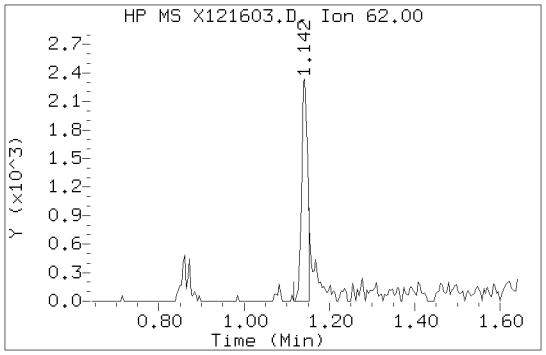
MASS
64
AREA
1174
HEIGHT
750
27-Dec-2022
16:03
linh
pham



Reason Code:

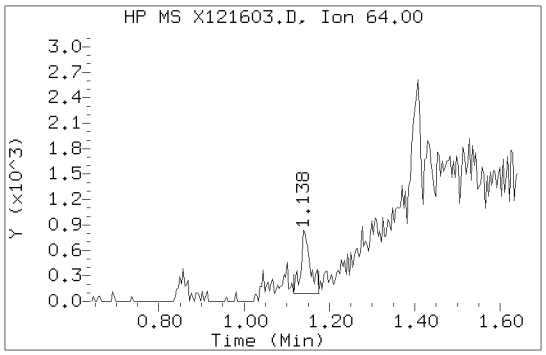
AFTER

MASS
62
AREA
2412
HEIGHT
2337
27-Dec-2022
16:07
linh
pham



AFTER

MASS
64
AREA
1174
HEIGHT
750
27-Dec-2022
16:07
linh
pham

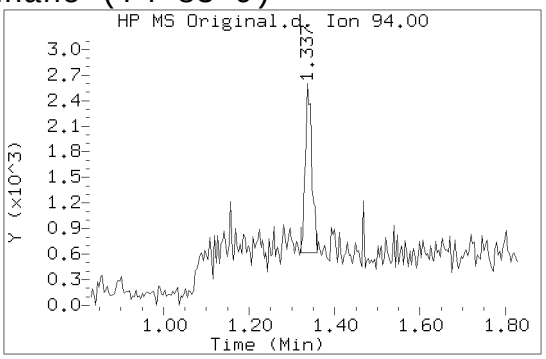


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

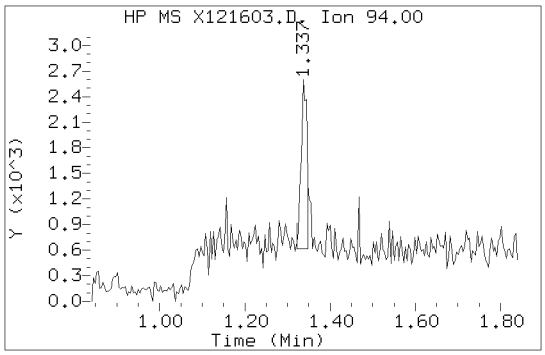
Bromomethane (74-83-9)

Reason Code:

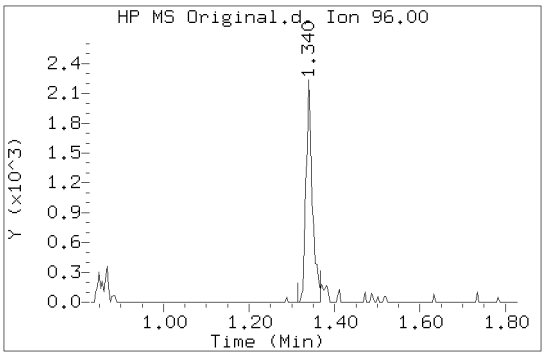
BEFORE
MASS
94
AREA
2146
HEIGHT
1983
27-Dec-2022
16:03
linh
pham



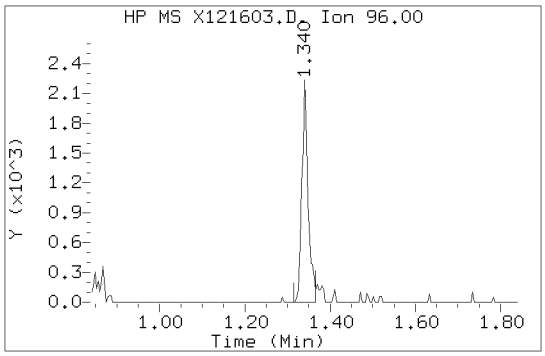
AFTER
MASS
94
AREA
1893
HEIGHT
1983
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
96
AREA
2304
HEIGHT
2236
27-Dec-2022
16:03
linh
pham



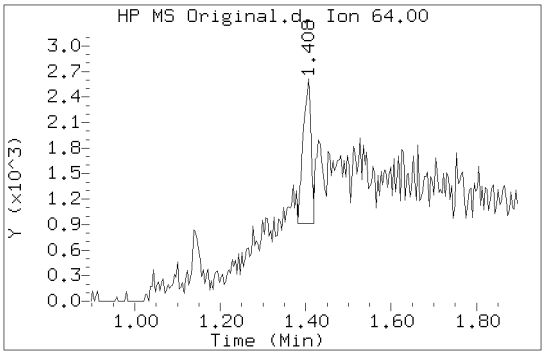
AFTER
MASS
96
AREA
2304
HEIGHT
2236
27-Dec-2022
16:07
linh
pham



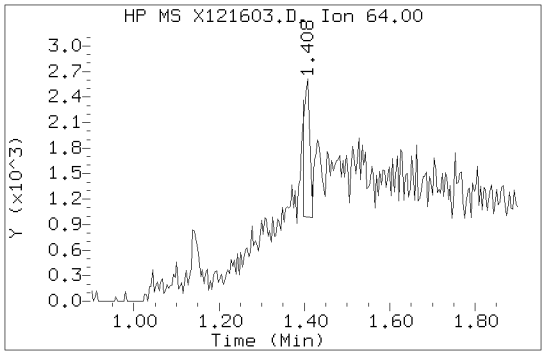
Chloroethane (75-00-3)

Reason Code:

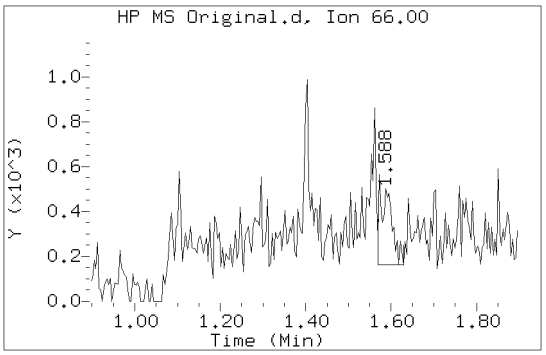
BEFORE
MASS
64
AREA
2196
HEIGHT
1702
27-Dec-2022
16:03
linh
pham



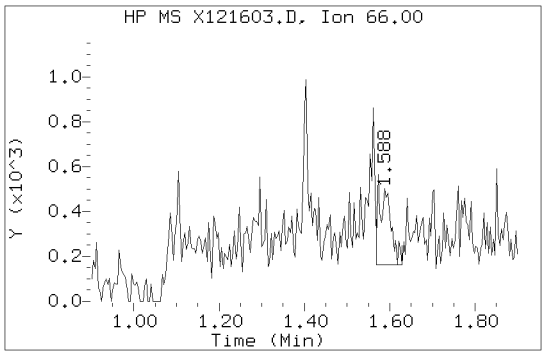
AFTER
MASS
64
AREA
1653
HEIGHT
1624
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
66
AREA
677
HEIGHT
340
27-Dec-2022
16:03
linh
pham



AFTER
MASS
66
AREA
677
HEIGHT
340
27-Dec-2022
16:07
linh
pham



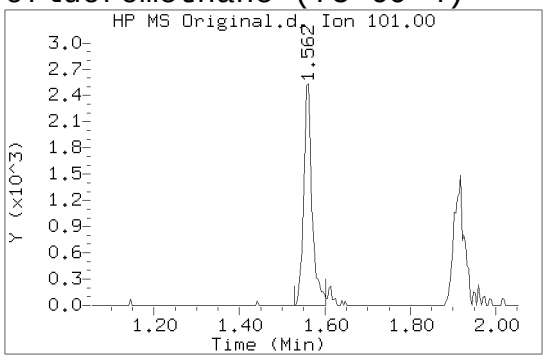
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Trichlorofluoromethane (75-69-4)

Reason Code:

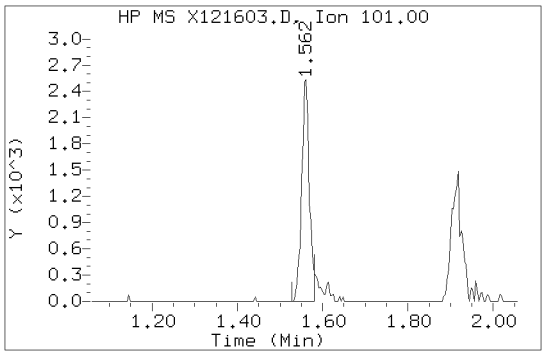
BEFORE

MASS
101
AREA
3530
HEIGHT
2534
27-Dec-2022
16:03
linh
pham



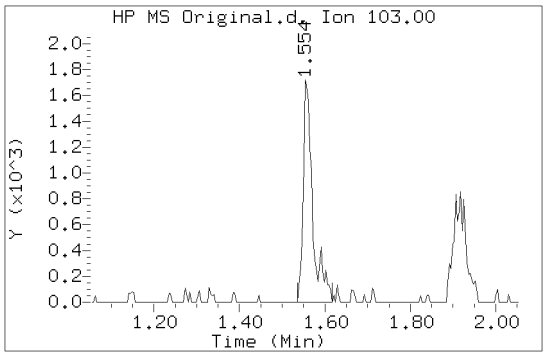
AFTER

MASS
101
AREA
3286
HEIGHT
2534
27-Dec-2022
16:07
linh
pham



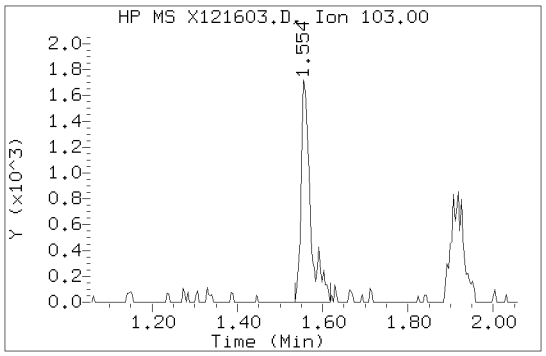
BEFORE

MASS
103
AREA
2708
HEIGHT
1720
27-Dec-2022
16:03
linh
pham



AFTER

MASS
103
AREA
2708
HEIGHT
1720
27-Dec-2022
16:07
linh
pham

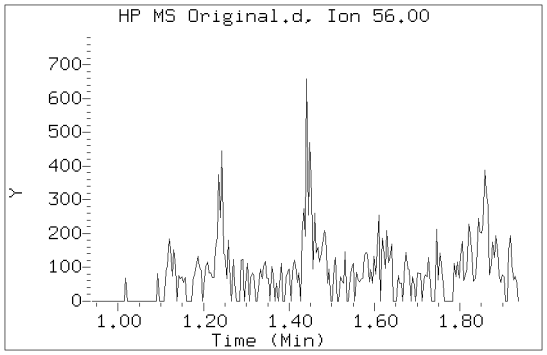


Acrolein (107-02-8)

Reason Code:

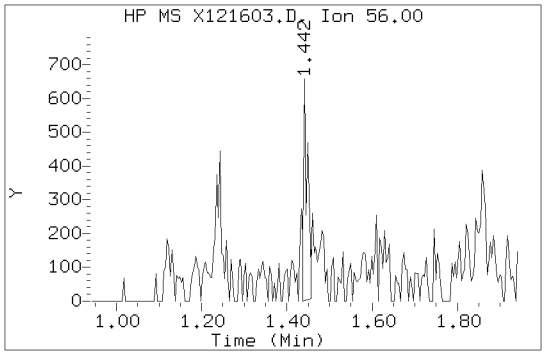
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



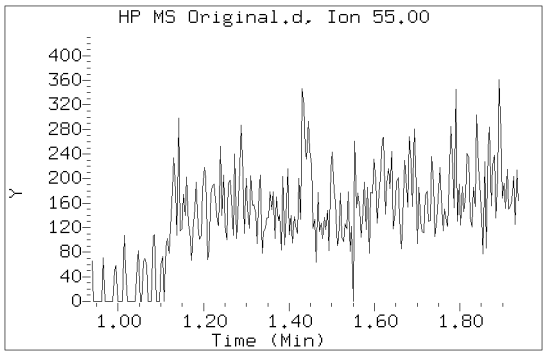
AFTER

MASS
56
AREA
440
HEIGHT
656
27-Dec-2022
16:07
linh
pham



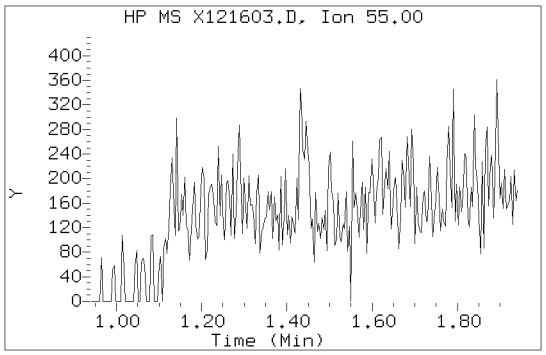
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

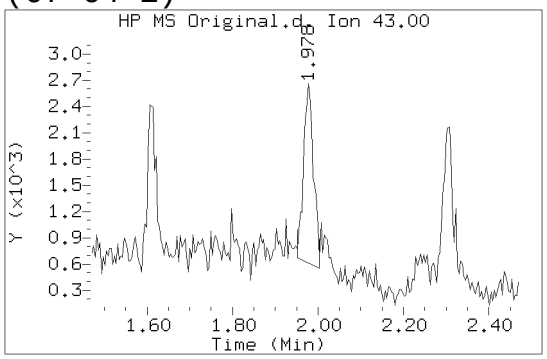


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

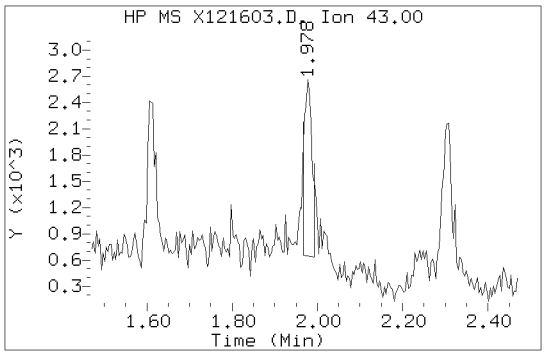
Acetone (67-64-1)

Reason Code:

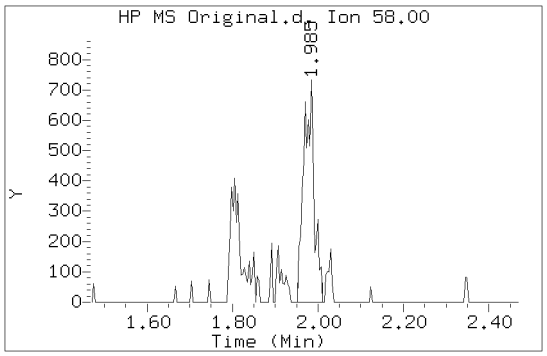
BEFORE
MASS
43
AREA
3388
HEIGHT
2046
27-Dec-2022
16:03
linh
pham



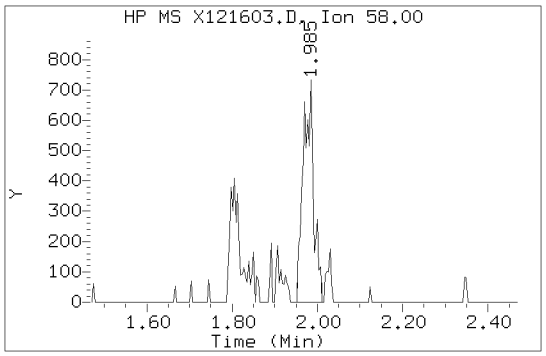
AFTER
MASS
43
AREA
2669
HEIGHT
2015
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
58
AREA
1264
HEIGHT
733
27-Dec-2022
16:03
linh
pham



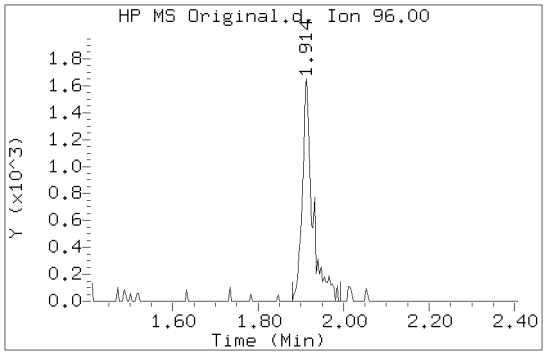
AFTER
MASS
58
AREA
1264
HEIGHT
733
27-Dec-2022
16:07
linh
pham



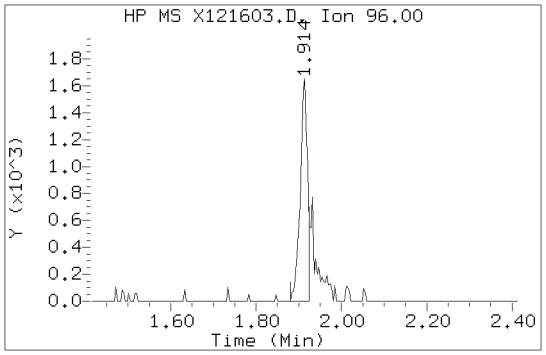
1,1-Dichloroethene (75-35-4)

Reason Code:

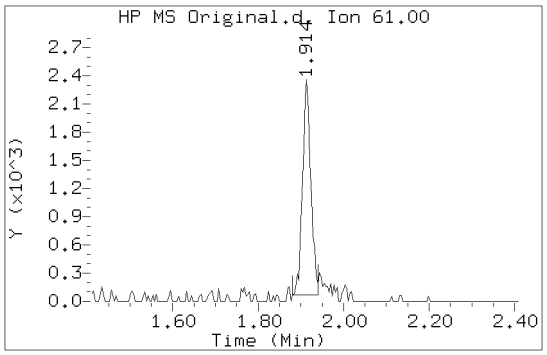
BEFORE
MASS
96
AREA
2836
HEIGHT
1651
27-Dec-2022
16:03
linh
pham



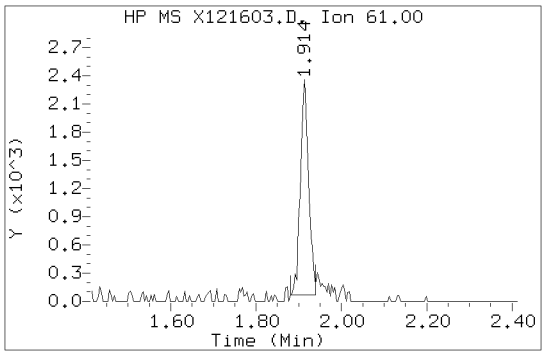
AFTER
MASS
96
AREA
2037
HEIGHT
1651
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
61
AREA
3197
HEIGHT
2293
27-Dec-2022
16:03
linh
pham



AFTER
MASS
61
AREA
3197
HEIGHT
2293
27-Dec-2022
16:07
linh
pham

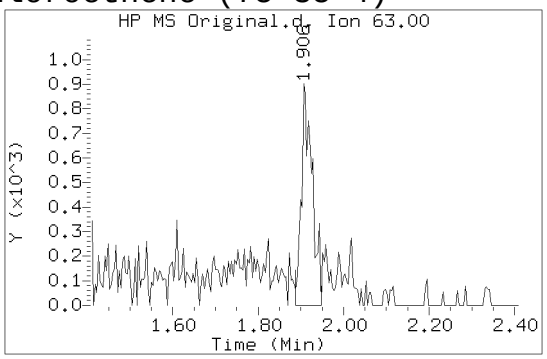


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

BEFORE

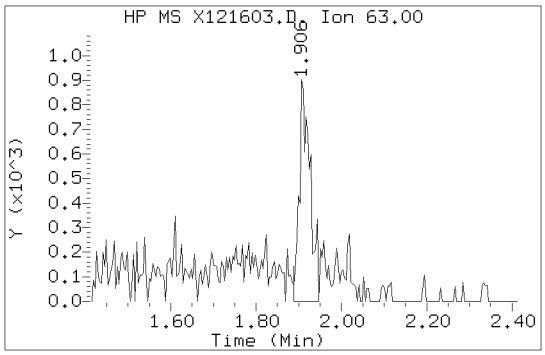
MASS
63
AREA
1607
HEIGHT
902
27-Dec-2022
16:03
linh
pham



AFTER

MASS
63
AREA
1607
HEIGHT
902
27-Dec-2022
16:07
linh
pham

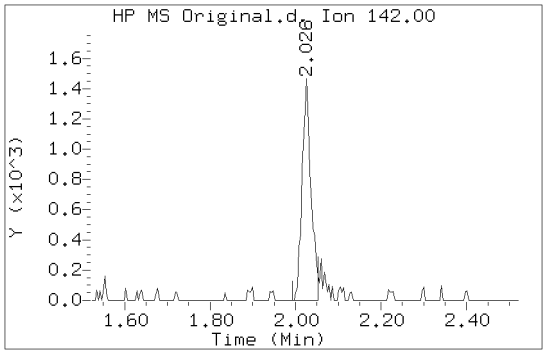
Reason Code:



Iodomethane (74-88-4)

BEFORE

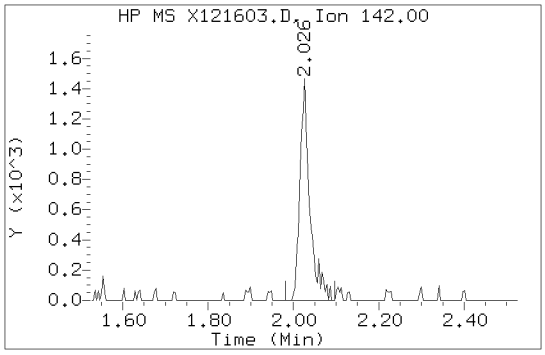
MASS
142
AREA
2166
HEIGHT
1466
27-Dec-2022
16:03
linh
pham



AFTER

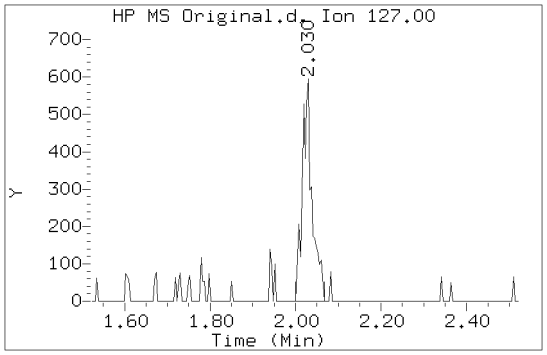
MASS
142
AREA
2397
HEIGHT
1466
27-Dec-2022
16:07
linh
pham

Reason Code:



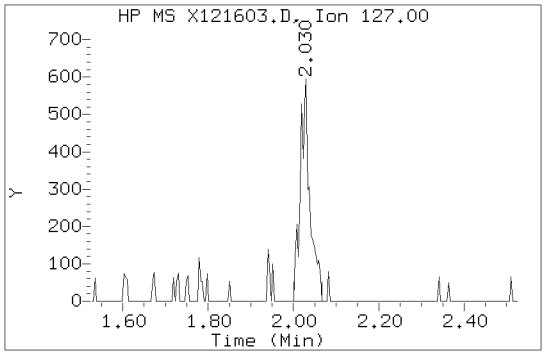
BEFORE

MASS
127
AREA
958
HEIGHT
595
27-Dec-2022
16:03
linh
pham



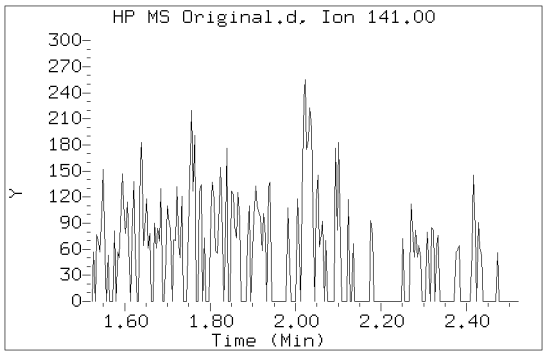
AFTER

MASS
127
AREA
958
HEIGHT
595
27-Dec-2022
16:07
linh
pham



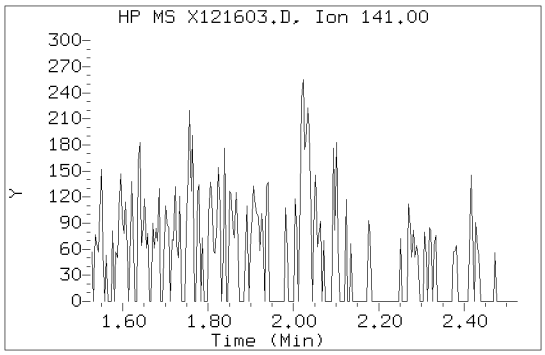
BEFORE

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



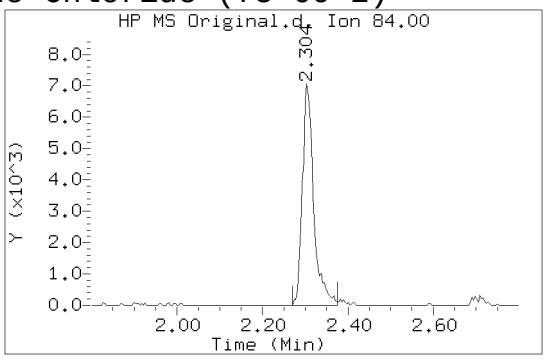
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

Reason Code:

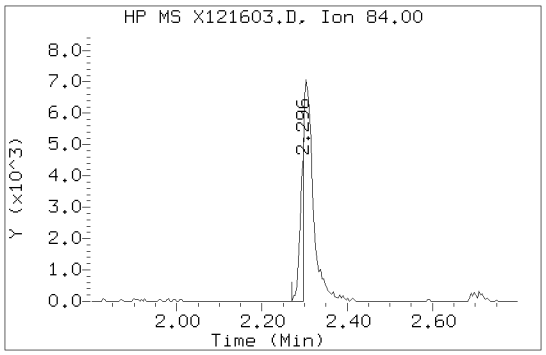
BEFORE

MASS
84
AREA
13307
HEIGHT
7067
27-Dec-2022
16:03
linh
pham



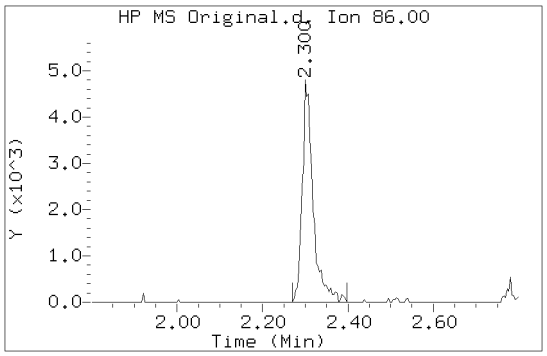
AFTER

MASS
84
AREA
2938
HEIGHT
4595
27-Dec-2022
16:07
linh
pham



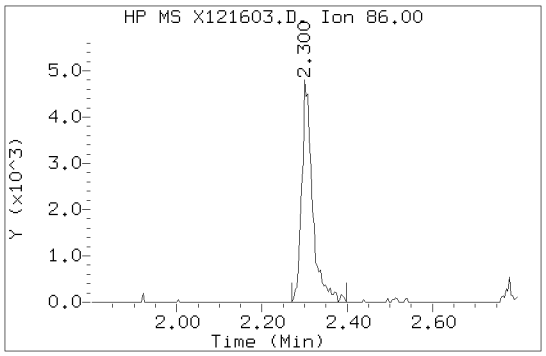
BEFORE

MASS
86
AREA
8692
HEIGHT
4802
27-Dec-2022
16:03
linh
pham



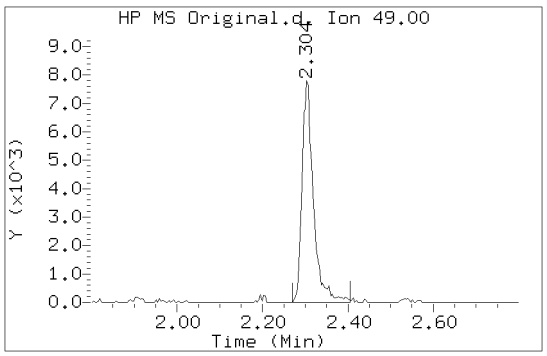
AFTER

MASS
86
AREA
8692
HEIGHT
4802
27-Dec-2022
16:07
linh
pham



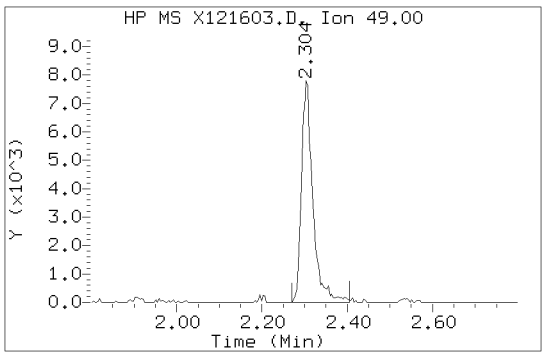
BEFORE

MASS
49
AREA
14733
HEIGHT
7803
27-Dec-2022
16:03
linh
pham



AFTER

MASS
49
AREA
14733
HEIGHT
7803
27-Dec-2022
16:07
linh
pham

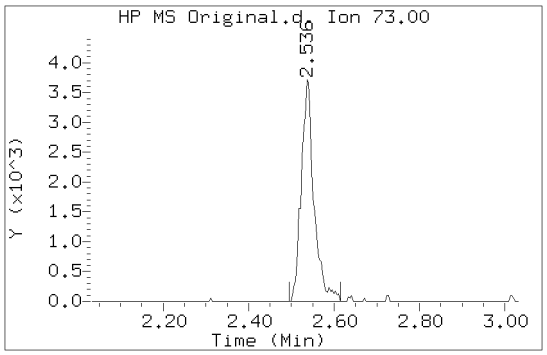


Methyl tert-butyl ether (1634-04-4)

Reason Code:

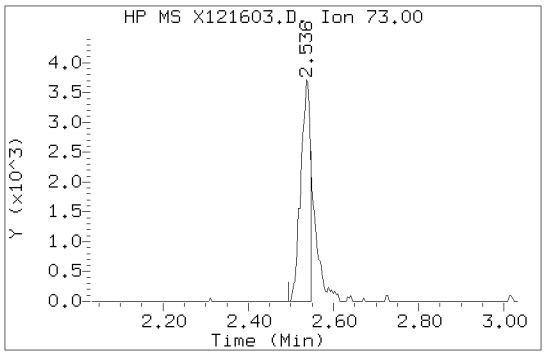
BEFORE

MASS
73
AREA
7826
HEIGHT
3716
27-Dec-2022
16:03
linh
pham



AFTER

MASS
73
AREA
5841
HEIGHT
3716
27-Dec-2022
16:07
linh
pham

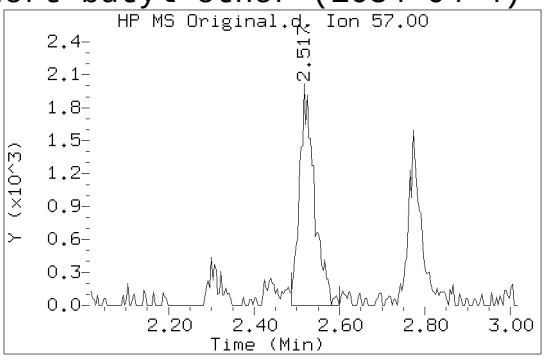


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl tert-butyl ether (1634-04-4)

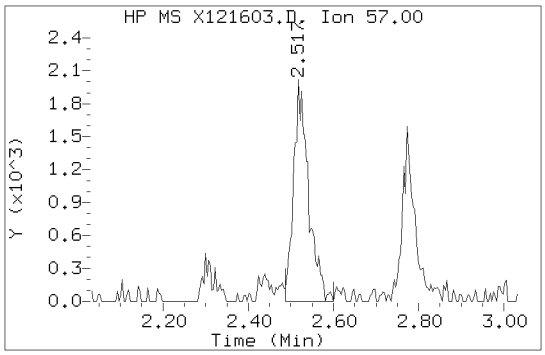
BEFORE

MASS
57
AREA
4915
HEIGHT
2019
27-Dec-2022
16:03
linh
pham



AFTER

MASS
57
AREA
4915
HEIGHT
2019
27-Dec-2022
16:07
linh
pham

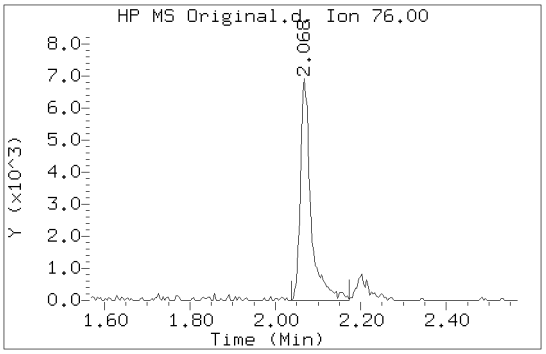


Reason Code:

Carbon Disulfide (75-15-0)

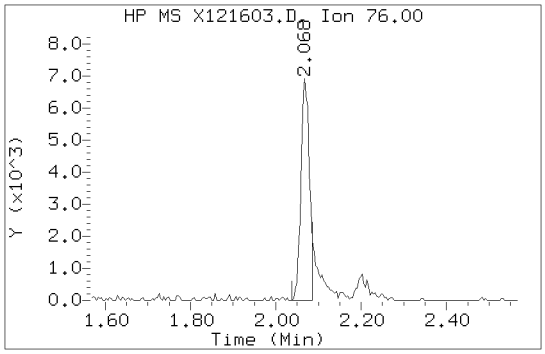
BEFORE

MASS
76
AREA
12313
HEIGHT
6923
27-Dec-2022
16:03
linh
pham



AFTER

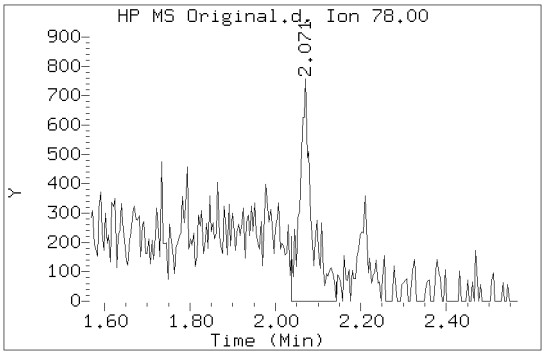
MASS
76
AREA
9921
HEIGHT
6923
27-Dec-2022
16:07
linh
pham



Reason Code:

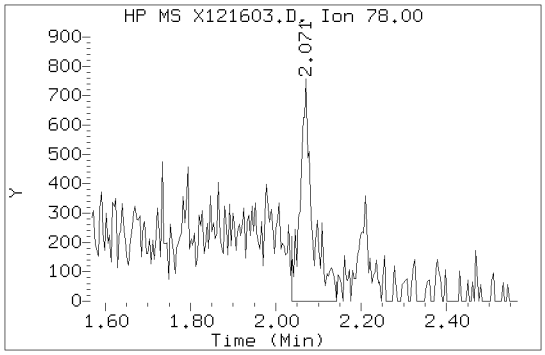
BEFORE

MASS
78
AREA
1586
HEIGHT
757
27-Dec-2022
16:03
linh
pham



AFTER

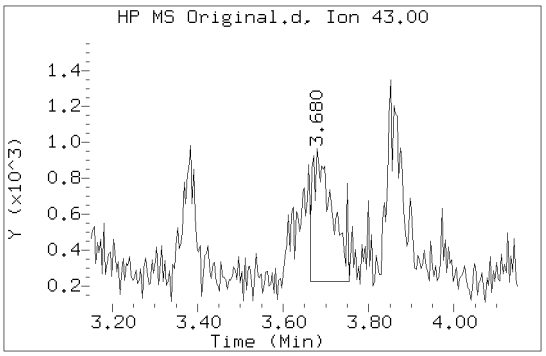
MASS
78
AREA
1586
HEIGHT
757
27-Dec-2022
16:07
linh
pham



2-Butanone (78-93-3)

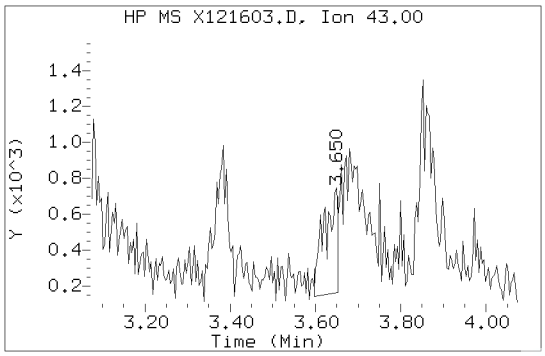
BEFORE

MASS
43
AREA
2415
HEIGHT
742
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
1292
HEIGHT
587
27-Dec-2022
16:07
linh
pham



Reason Code:

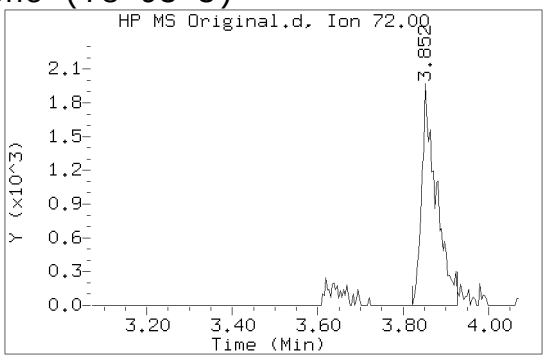
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

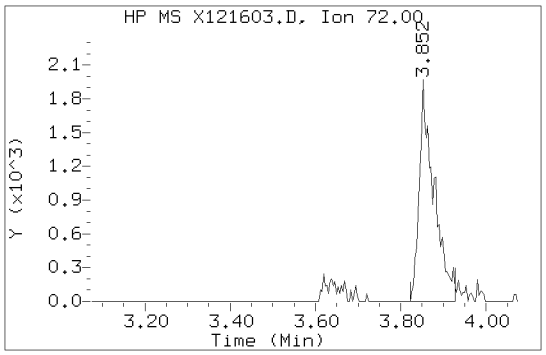
BEFORE

MASS
72
AREA
4698
HEIGHT
1970
27-Dec-2022
16:03
linh
pham



AFTER

MASS
72
AREA
4698
HEIGHT
1970
27-Dec-2022
16:07
linh
pham

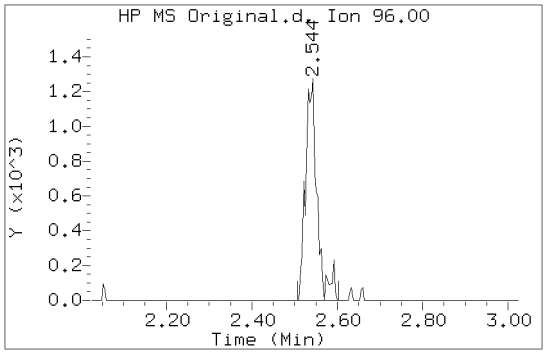


trans-1,2-Dichloroethene (156-60-5)

Reason Code:

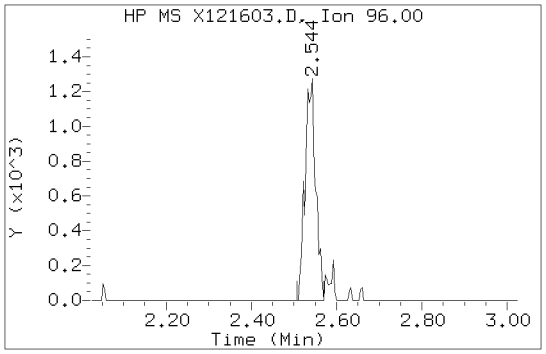
BEFORE

MASS
96
AREA
2404
HEIGHT
1274
27-Dec-2022
16:03
linh
pham



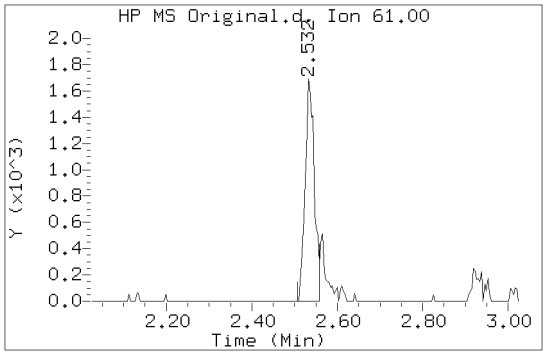
AFTER

MASS
96
AREA
2218
HEIGHT
1274
27-Dec-2022
16:07
linh
pham



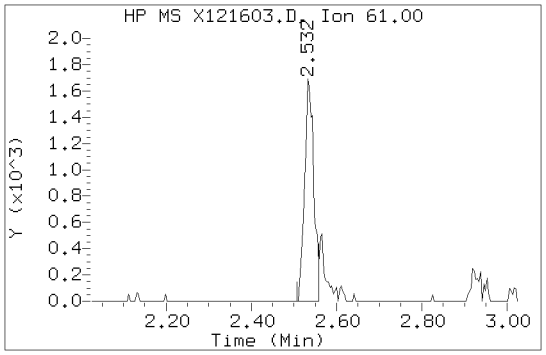
BEFORE

MASS
61
AREA
2571
HEIGHT
1692
27-Dec-2022
16:03
linh
pham



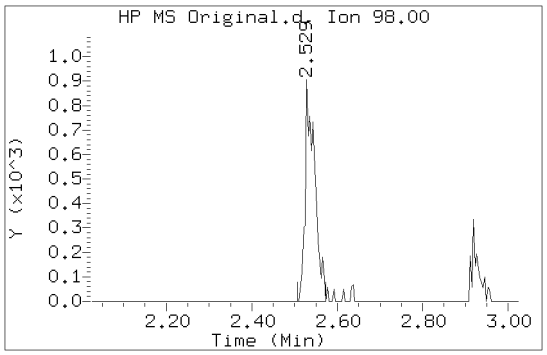
AFTER

MASS
61
AREA
2571
HEIGHT
1692
27-Dec-2022
16:07
linh
pham



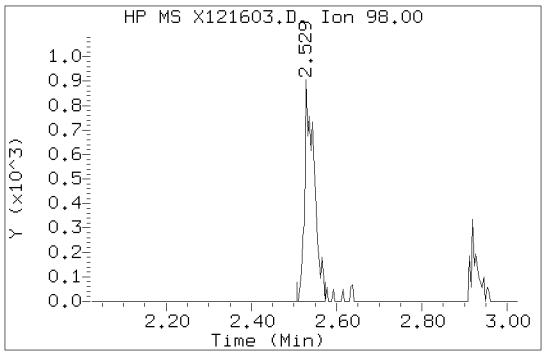
BEFORE

MASS
98
AREA
1412
HEIGHT
906
27-Dec-2022
16:03
linh
pham



AFTER

MASS
98
AREA
1412
HEIGHT
906
27-Dec-2022
16:07
linh
pham

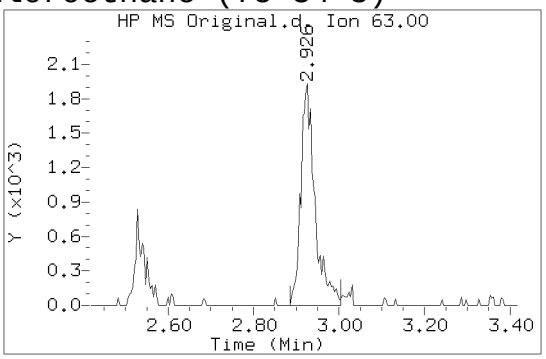


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

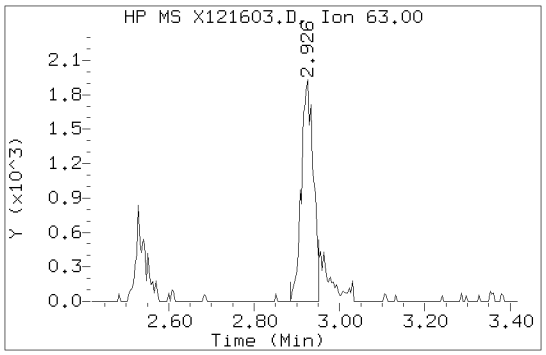
1,1-Dichloroethane (75-34-3)

Reason Code:

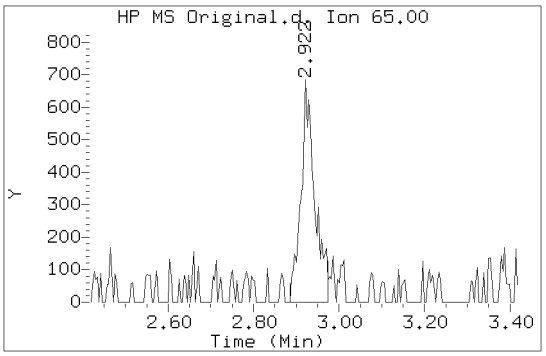
BEFORE
MASS
63
AREA
4504
HEIGHT
1931
27-Dec-2022
16:03
linh
pham



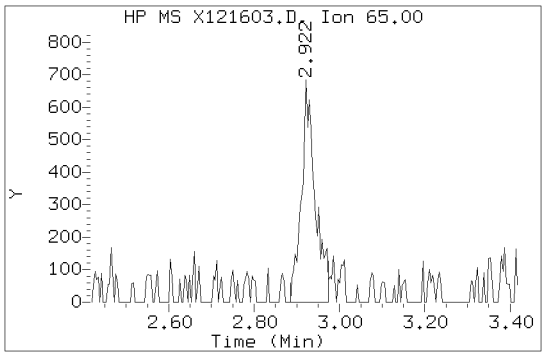
AFTER
MASS
63
AREA
3874
HEIGHT
1931
27-Dec-2022
16:07
linh
pham



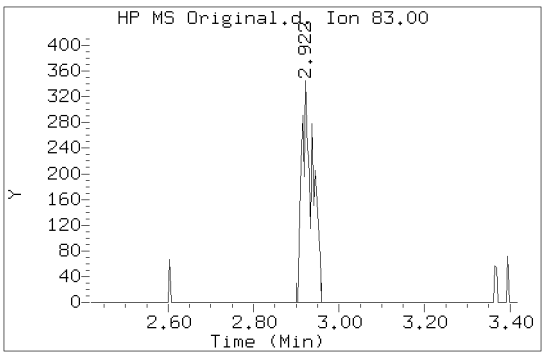
BEFORE
MASS
65
AREA
1548
HEIGHT
684
27-Dec-2022
16:03
linh
pham



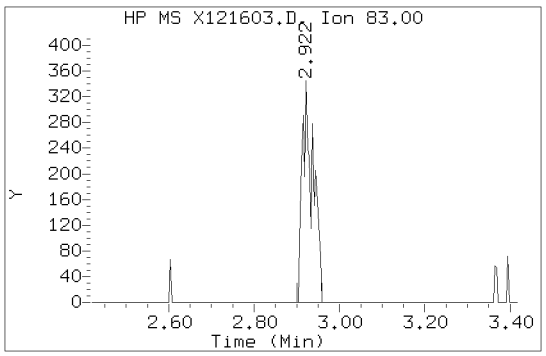
AFTER
MASS
65
AREA
1548
HEIGHT
684
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
83
AREA
618
HEIGHT
345
27-Dec-2022
16:03
linh
pham



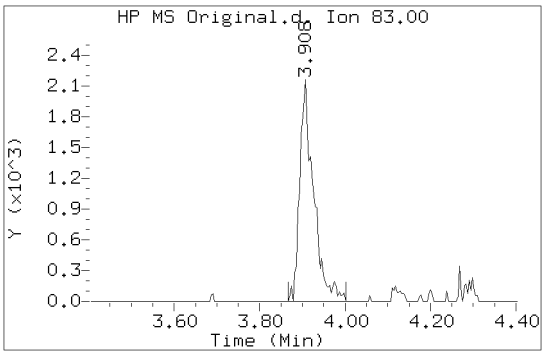
AFTER
MASS
83
AREA
618
HEIGHT
345
27-Dec-2022
16:07
linh
pham



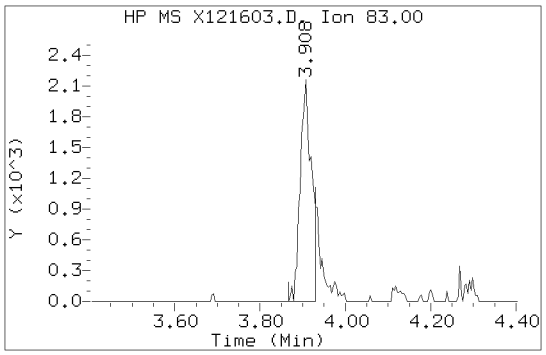
Chloroform (67-66-3)

Reason Code:

BEFORE
MASS
83
AREA
4949
HEIGHT
2160
27-Dec-2022
16:03
linh
pham



AFTER
MASS
83
AREA
4040
HEIGHT
2160
27-Dec-2022
16:07
linh
pham



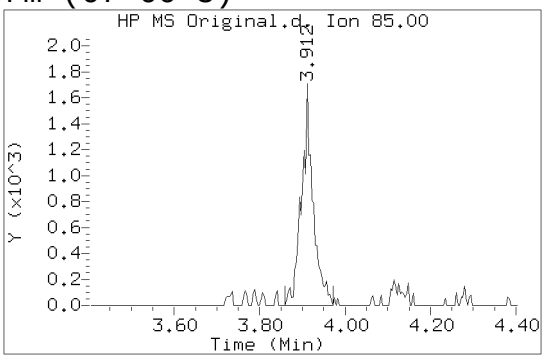
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroform (67-66-3)

Reason Code:

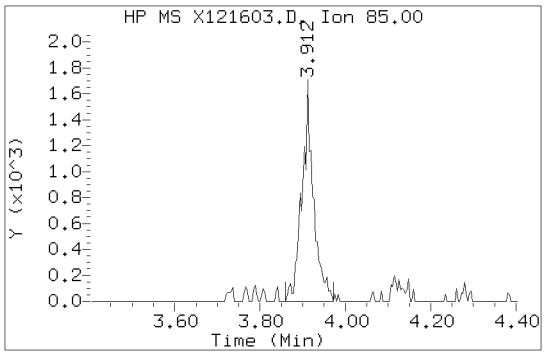
BEFORE

MASS
85
AREA
3222
HEIGHT
1709
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
3222
HEIGHT
1709
27-Dec-2022
16:07
linh
pham

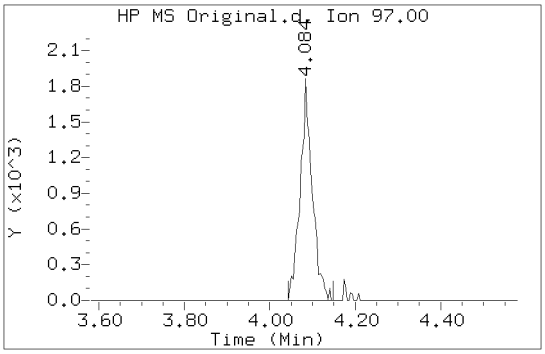


1,1,1-Trichloroethane (71-55-6)

Reason Code:

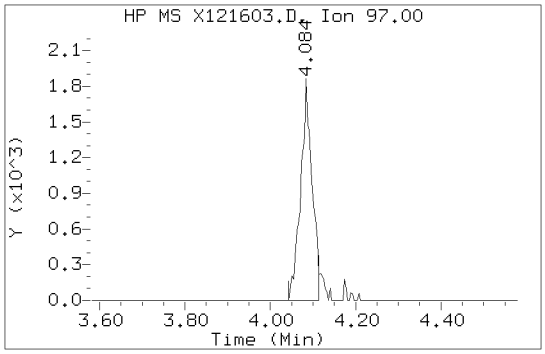
BEFORE

MASS
97
AREA
3710
HEIGHT
1863
27-Dec-2022
16:03
linh
pham



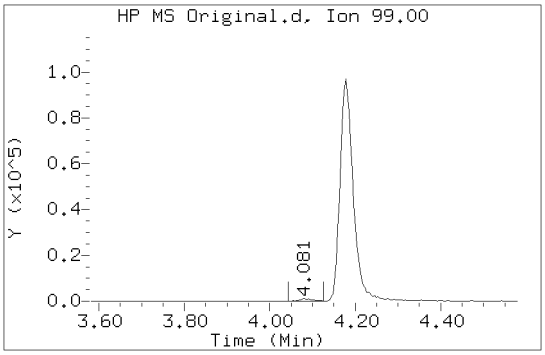
AFTER

MASS
97
AREA
3512
HEIGHT
1863
27-Dec-2022
16:07
linh
pham



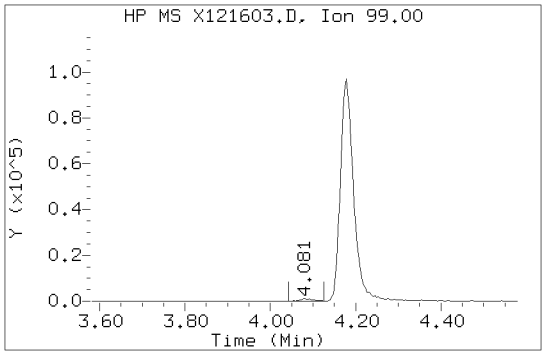
BEFORE

MASS
99
AREA
2299
HEIGHT
1029
27-Dec-2022
16:03
linh
pham



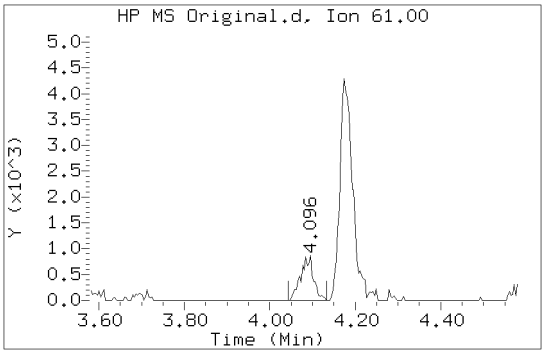
AFTER

MASS
99
AREA
2299
HEIGHT
1029
27-Dec-2022
16:07
linh
pham



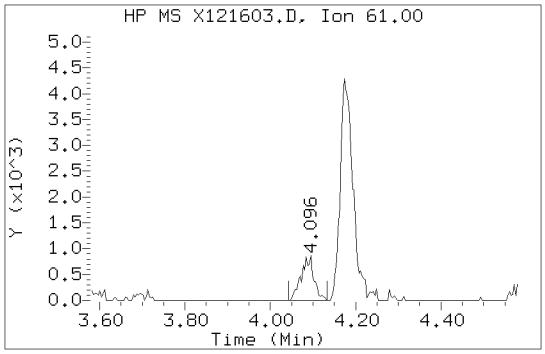
BEFORE

MASS
61
AREA
1801
HEIGHT
872
27-Dec-2022
16:03
linh
pham



AFTER

MASS
61
AREA
1801
HEIGHT
872
27-Dec-2022
16:07
linh
pham



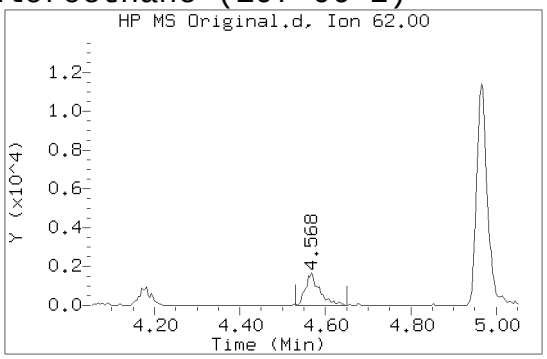
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloroethane (107-06-2)

Reason Code:

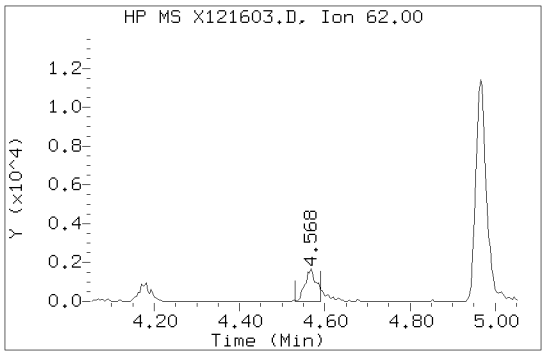
BEFORE

MASS
62
AREA
3822
HEIGHT
1678
27-Dec-2022
16:03
linh
pham



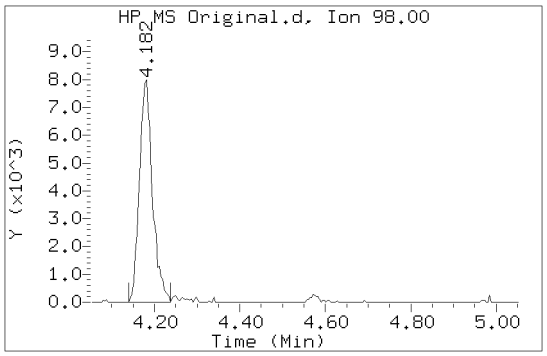
AFTER

MASS
62
AREA
3129
HEIGHT
1678
27-Dec-2022
16:07
linh
pham



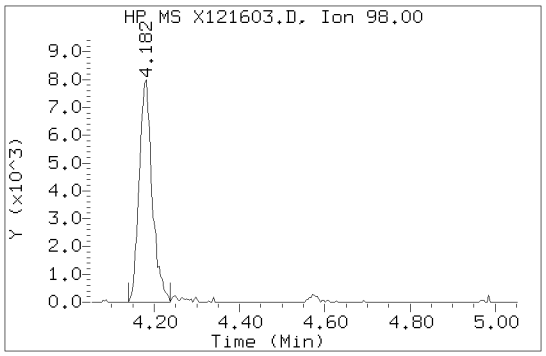
BEFORE

MASS
98
AREA
16918
HEIGHT
7987
27-Dec-2022
16:03
linh
pham



AFTER

MASS
98
AREA
16918
HEIGHT
7987
27-Dec-2022
16:07
linh
pham

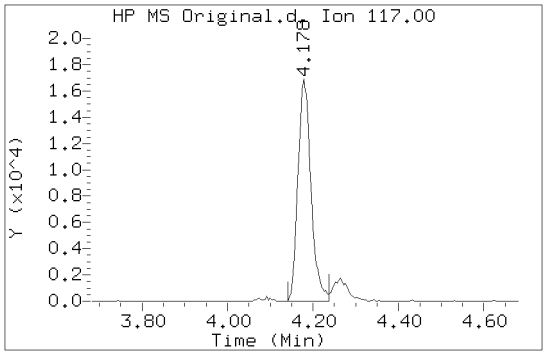


Carbon Tetrachloride (56-23-5)

Reason Code:

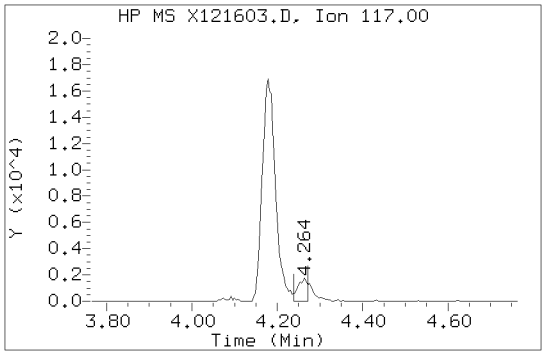
BEFORE

MASS
117
AREA
36559
HEIGHT
16920
27-Dec-2022
16:03
linh
pham



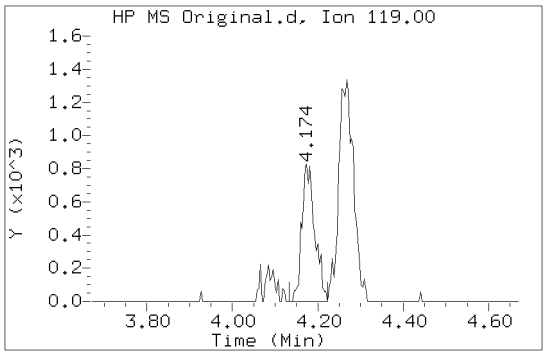
AFTER

MASS
117
AREA
2763
HEIGHT
1744
27-Dec-2022
16:07
linh
pham



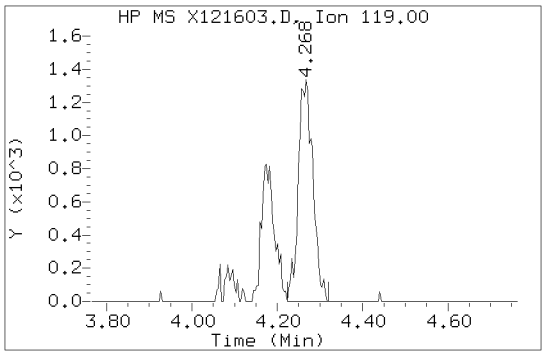
BEFORE

MASS
119
AREA
1780
HEIGHT
826
27-Dec-2022
16:03
linh
pham



AFTER

MASS
119
AREA
3227
HEIGHT
1337
27-Dec-2022
16:07
linh
pham

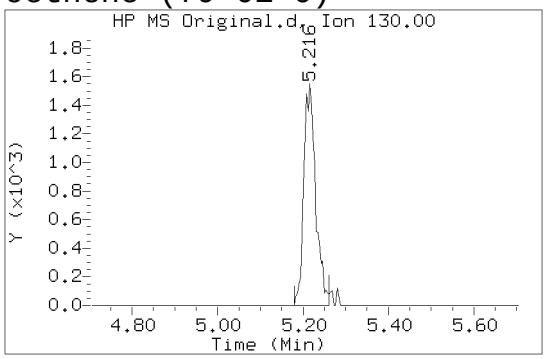


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

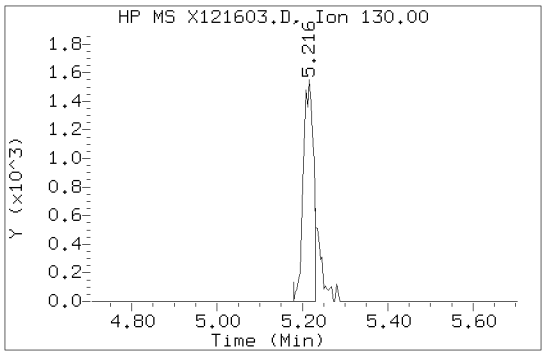
Trichloroethene (79-01-6)

Reason Code:

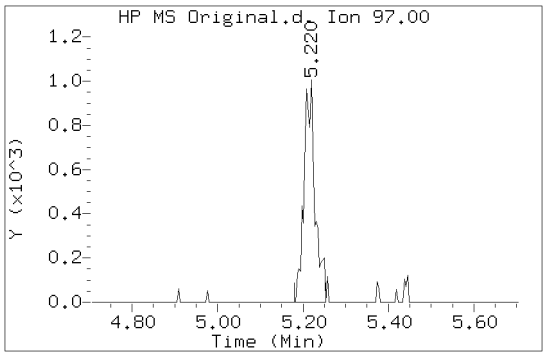
BEFORE
MASS
130
AREA
3011
HEIGHT
1551
27-Dec-2022
16:03
linh
pham



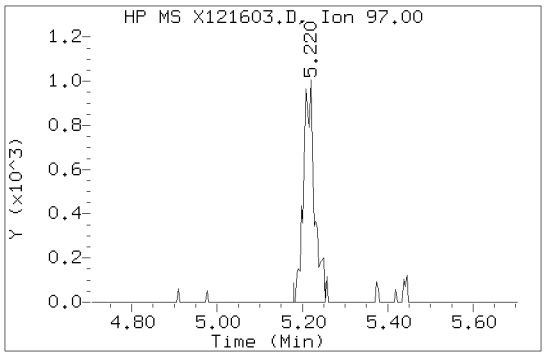
AFTER
MASS
130
AREA
2583
HEIGHT
1551
27-Dec-2022
16:07
linh
pham



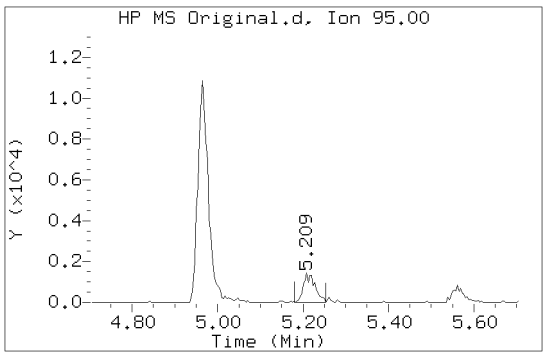
BEFORE
MASS
97
AREA
1808
HEIGHT
1006
27-Dec-2022
16:03
linh
pham



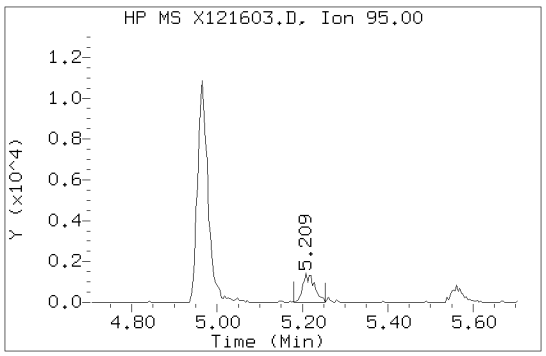
AFTER
MASS
97
AREA
1808
HEIGHT
1006
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
95
AREA
2693
HEIGHT
1431
27-Dec-2022
16:03
linh
pham



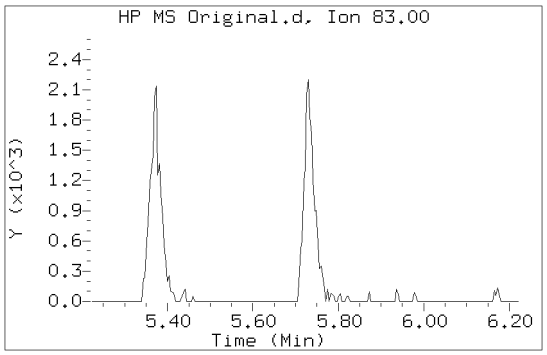
AFTER
MASS
95
AREA
2693
HEIGHT
1431
27-Dec-2022
16:07
linh
pham



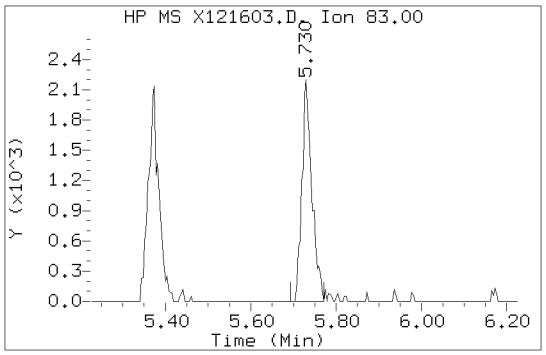
Bromodichloromethane (75-27-4)

Reason Code:

BEFORE
MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
83
AREA
3650
HEIGHT
2201
27-Dec-2022
16:07
linh
pham



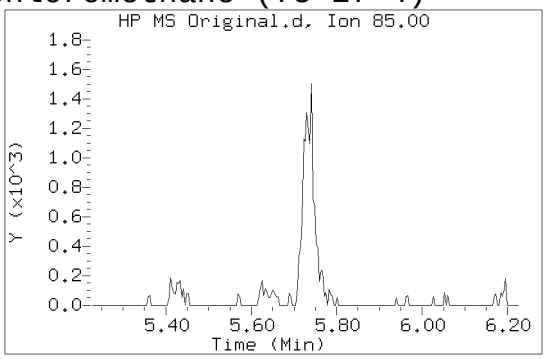
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromodichloromethane (75-27-4)

Reason Code:

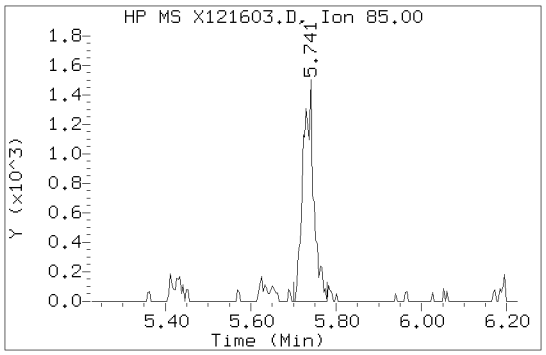
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



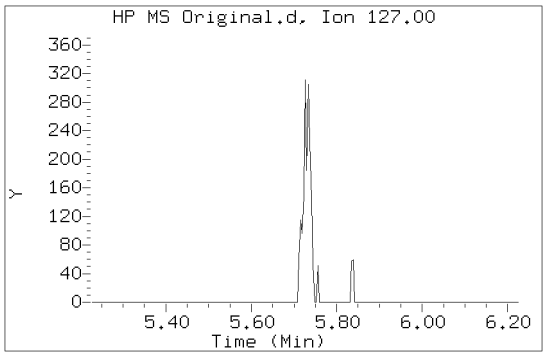
AFTER

MASS
85
AREA
2639
HEIGHT
1503
27-Dec-2022
16:07
linh
pham



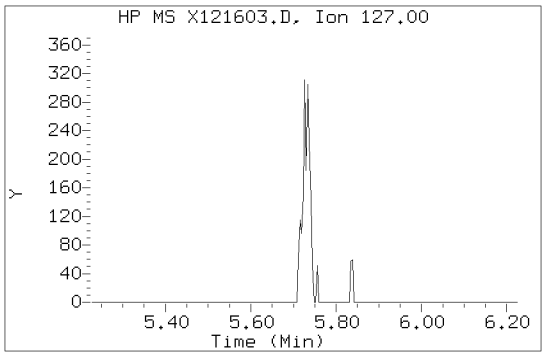
BEFORE

MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

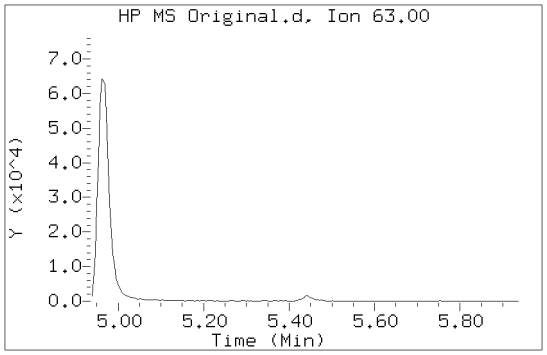


1,2-Dichloropropane (78-87-5)

Reason Code:

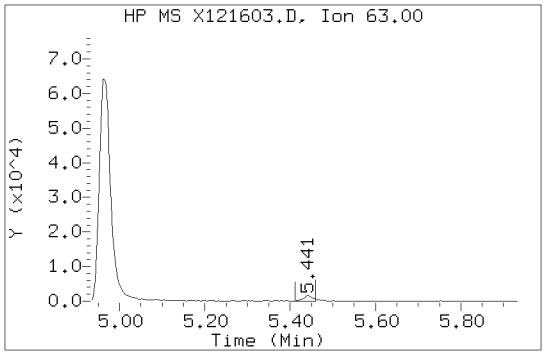
BEFORE

MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



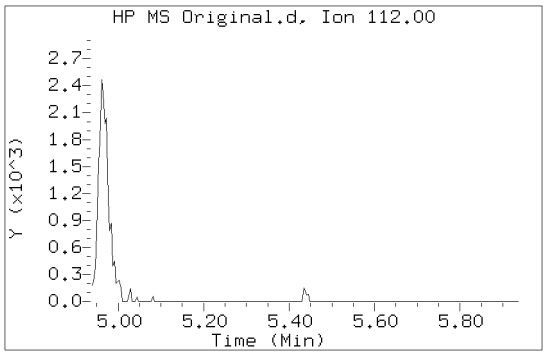
AFTER

MASS
63
AREA
2449
HEIGHT
1587
27-Dec-2022
16:07
linh
pham



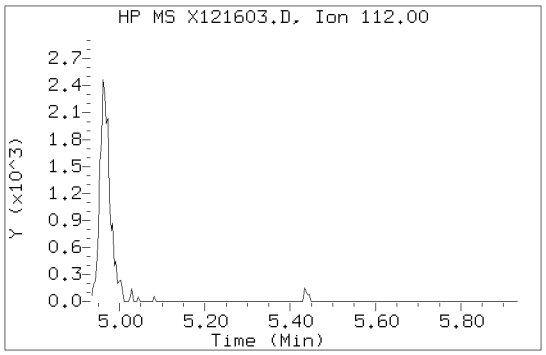
BEFORE

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



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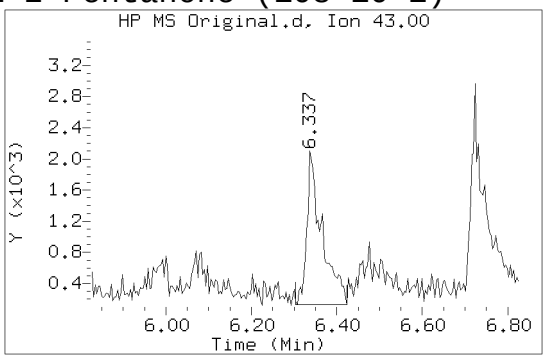
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

4-Methyl-2-Pentanone (108-10-1)

Reason Code:

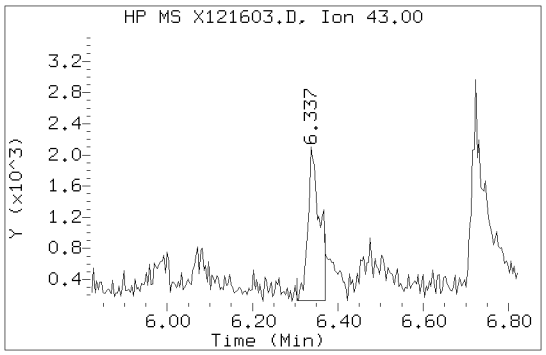
BEFORE

MASS
43
AREA
4873
HEIGHT
1970
27-Dec-2022
16:03
linh
pham



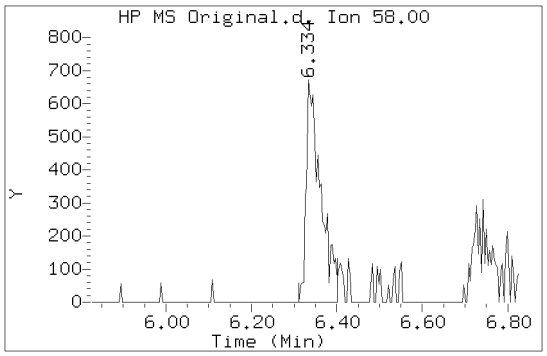
AFTER

MASS
43
AREA
3741
HEIGHT
1970
27-Dec-2022
16:07
linh
pham



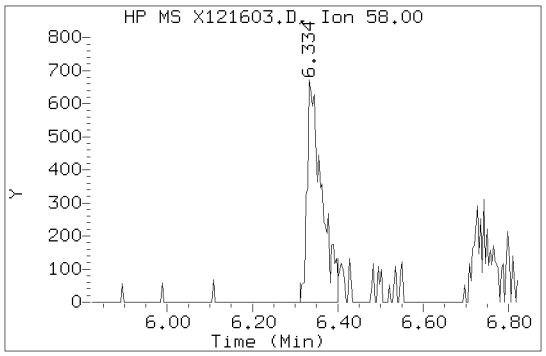
BEFORE

MASS
58
AREA
1585
HEIGHT
672
27-Dec-2022
16:03
linh
pham



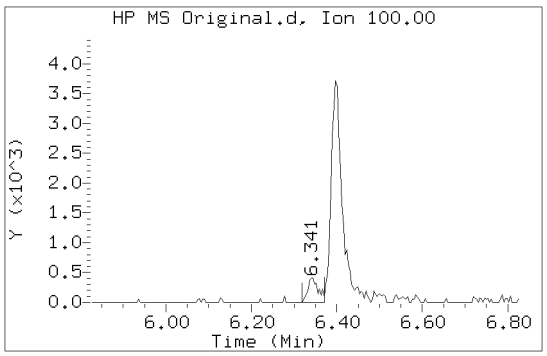
AFTER

MASS
58
AREA
1585
HEIGHT
672
27-Dec-2022
16:07
linh
pham



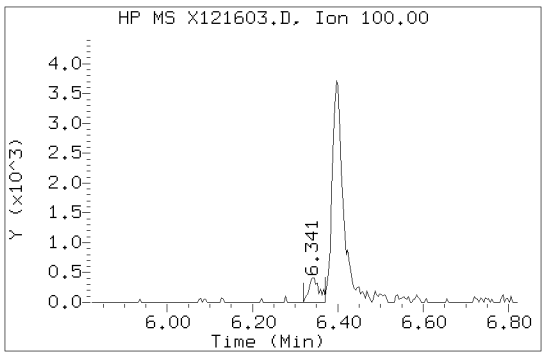
BEFORE

MASS
100
AREA
714
HEIGHT
412
27-Dec-2022
16:03
linh
pham



AFTER

MASS
100
AREA
714
HEIGHT
412
27-Dec-2022
16:07
linh
pham

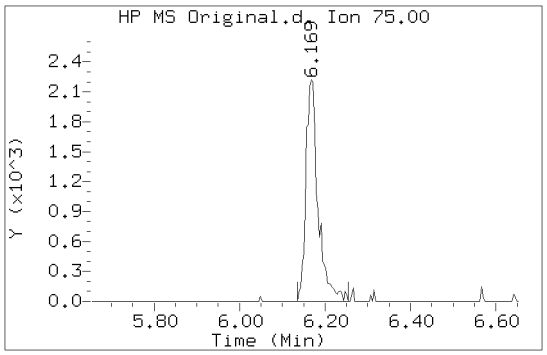


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

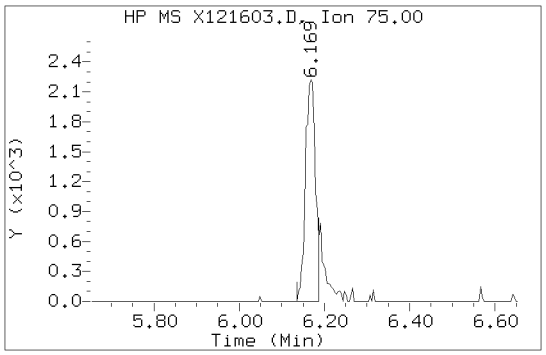
BEFORE

MASS
75
AREA
4432
HEIGHT
2222
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
3695
HEIGHT
2222
27-Dec-2022
16:07
linh
pham

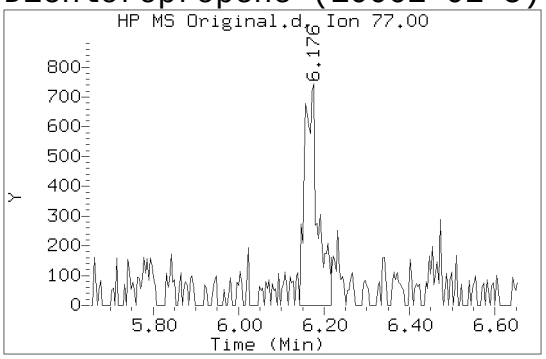


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

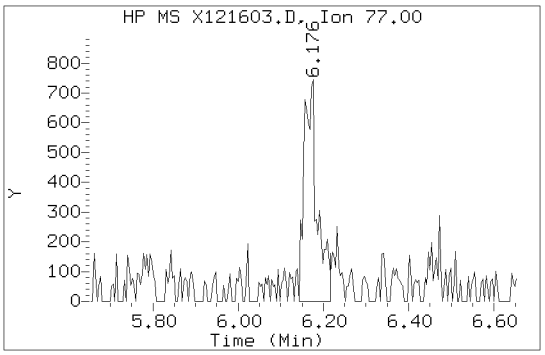
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

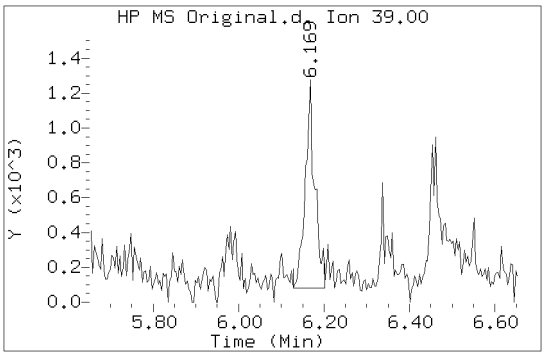
BEFORE
MASS
77
AREA
1607
HEIGHT
745
27-Dec-2022
16:03
linh
pham



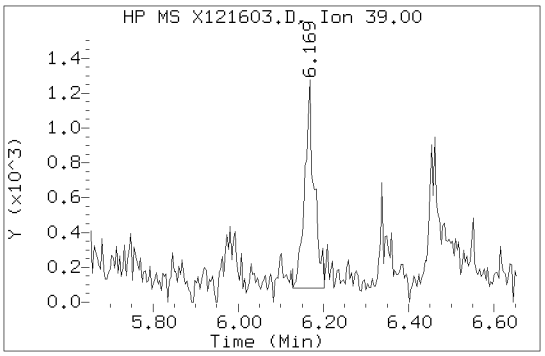
AFTER
MASS
77
AREA
1607
HEIGHT
745
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
39
AREA
1836
HEIGHT
1193
27-Dec-2022
16:03
linh
pham



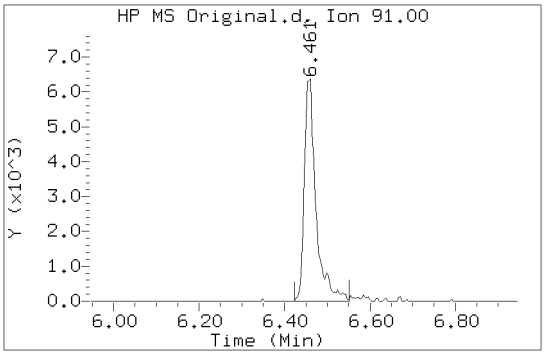
AFTER
MASS
39
AREA
1836
HEIGHT
1193
27-Dec-2022
16:07
linh
pham



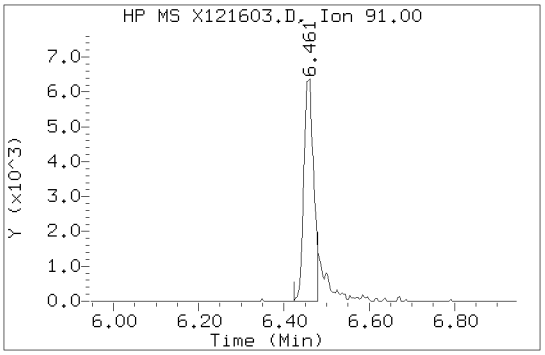
Toluene (108-88-3)

Reason Code:

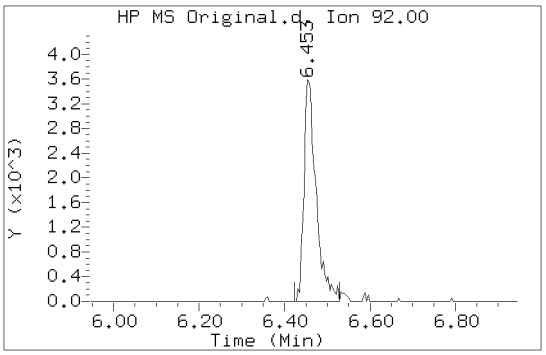
BEFORE
MASS
91
AREA
12225
HEIGHT
6374
27-Dec-2022
16:03
linh
pham



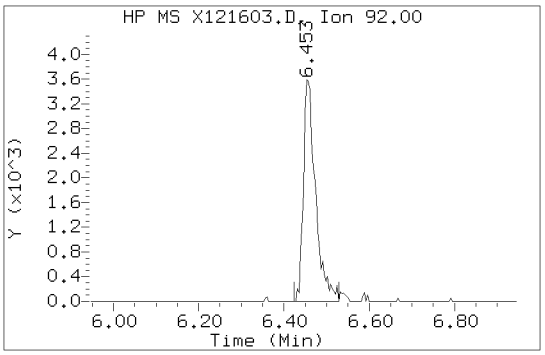
AFTER
MASS
91
AREA
10374
HEIGHT
6374
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
92
AREA
7180
HEIGHT
3591
27-Dec-2022
16:03
linh
pham



AFTER
MASS
92
AREA
7180
HEIGHT
3591
27-Dec-2022
16:07
linh
pham



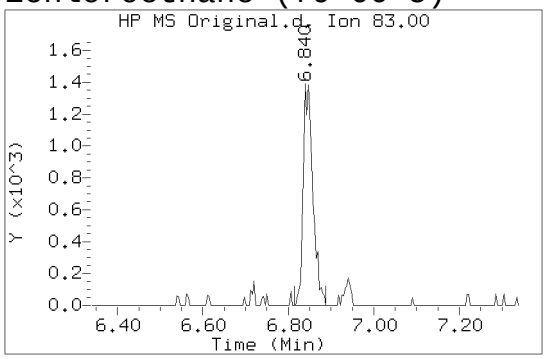
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2-Trichloroethane (79-00-5)

Reason Code:

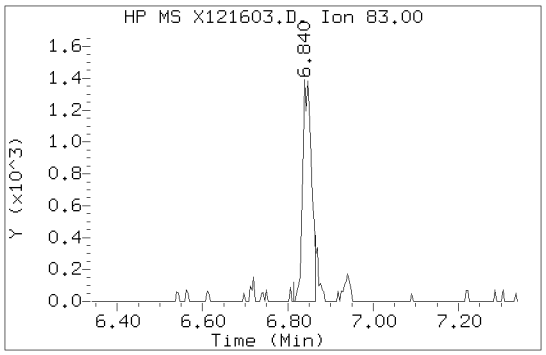
BEFORE

MASS
83
AREA
2247
HEIGHT
1391
27-Dec-2022
16:03
linh
pham



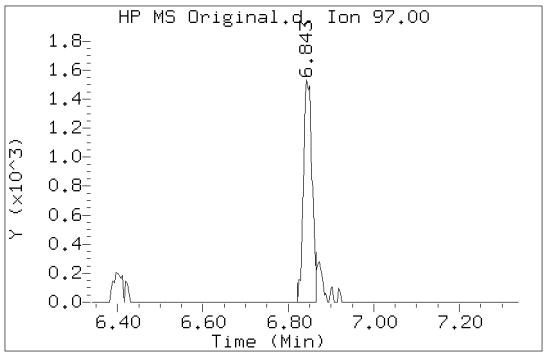
AFTER

MASS
83
AREA
2092
HEIGHT
1391
27-Dec-2022
16:07
linh
pham



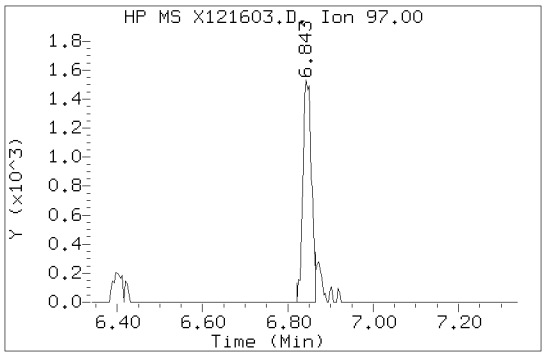
BEFORE

MASS
97
AREA
2224
HEIGHT
1532
27-Dec-2022
16:03
linh
pham



AFTER

MASS
97
AREA
2224
HEIGHT
1532
27-Dec-2022
16:07
linh
pham

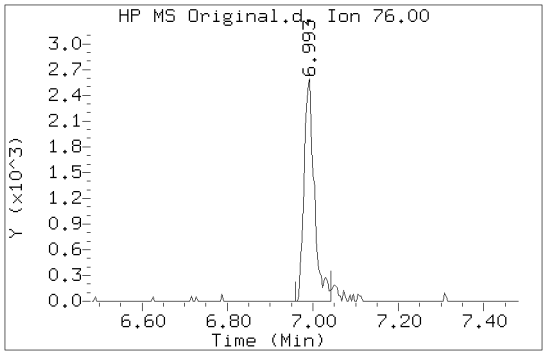


1,3-Dichloropropane (142-28-9)

Reason Code:

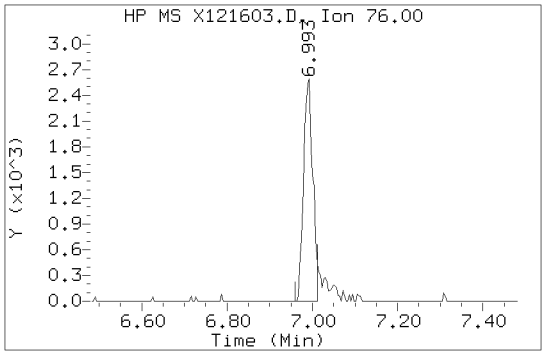
BEFORE

MASS
76
AREA
4415
HEIGHT
2592
27-Dec-2022
16:03
linh
pham



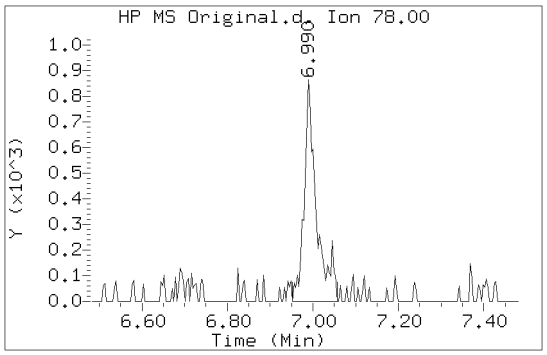
AFTER

MASS
76
AREA
4005
HEIGHT
2592
27-Dec-2022
16:07
linh
pham



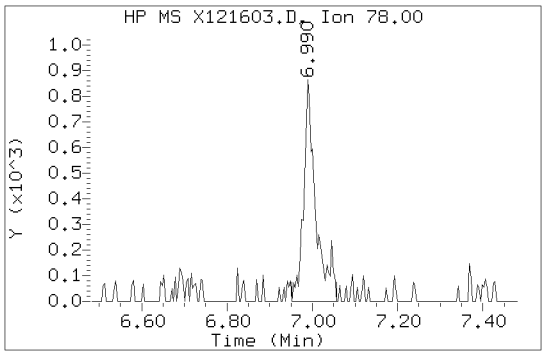
BEFORE

MASS
78
AREA
1727
HEIGHT
864
27-Dec-2022
16:03
linh
pham



AFTER

MASS
78
AREA
1727
HEIGHT
864
27-Dec-2022
16:07
linh
pham

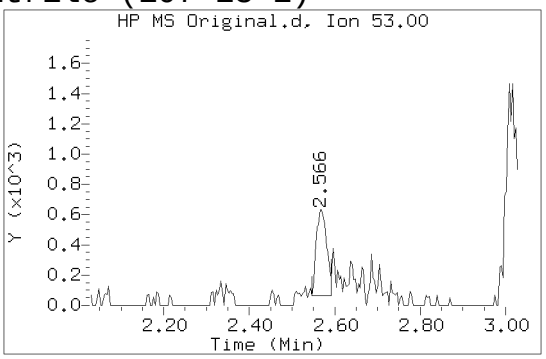


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

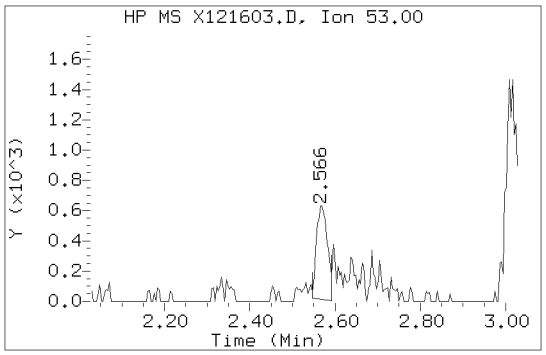
Acrylonitrile (107-13-1)

Reason Code:

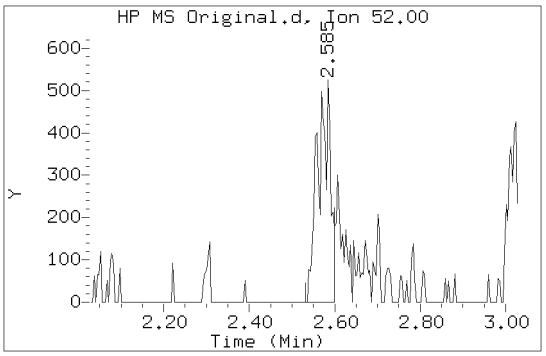
BEFORE
MASS
53
AREA
975
HEIGHT
571
27-Dec-2022
16:03
linh
pham



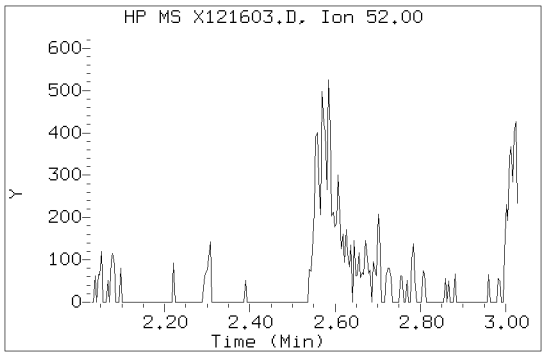
AFTER
MASS
53
AREA
1118
HEIGHT
618
27-Dec-2022
16:07
linh
pham



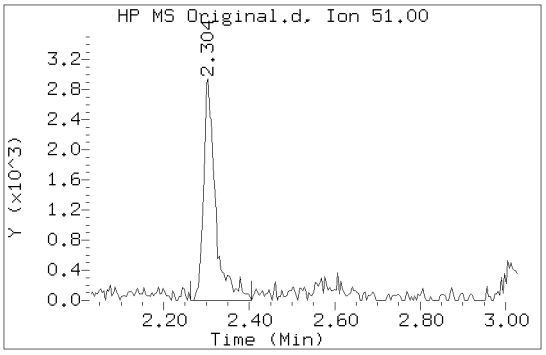
BEFORE
MASS
52
AREA
1100
HEIGHT
525
27-Dec-2022
16:03
linh
pham



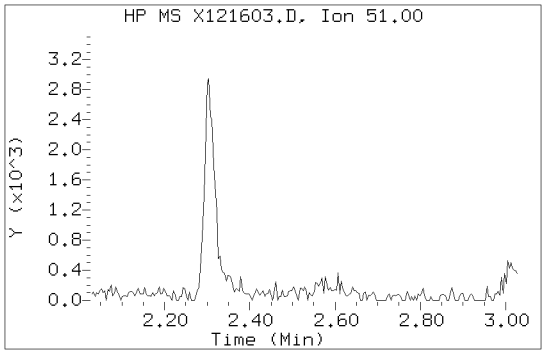
AFTER
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
51
AREA
5708
HEIGHT
2946
27-Dec-2022
16:03
linh
pham



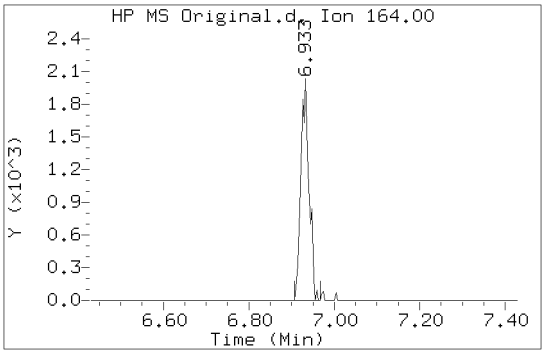
AFTER
MASS
51
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



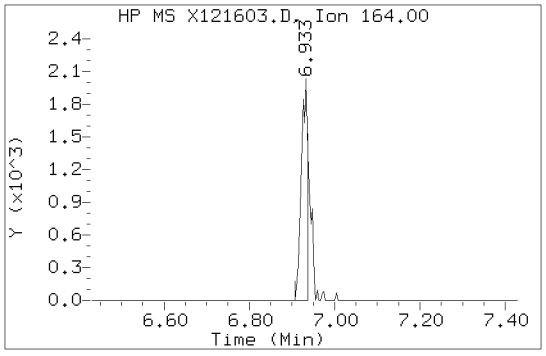
Tetrachloroethene (127-18-4)

Reason Code:

BEFORE
MASS
164
AREA
2777
HEIGHT
2036
27-Dec-2022
16:03
linh
pham



AFTER
MASS
164
AREA
2131
HEIGHT
2036
27-Dec-2022
16:07
linh
pham



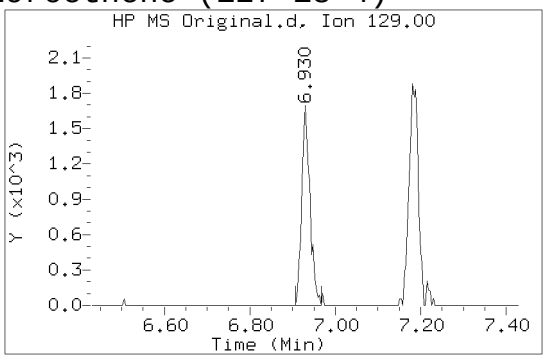
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrachloroethene (127-18-4)

Reason Code:

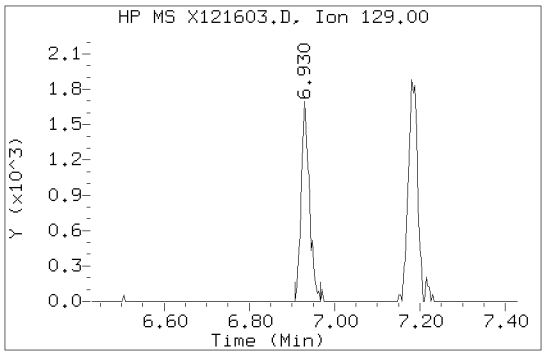
BEFORE

MASS
129
AREA
2342
HEIGHT
1697
27-Dec-2022
16:03
linh
pham



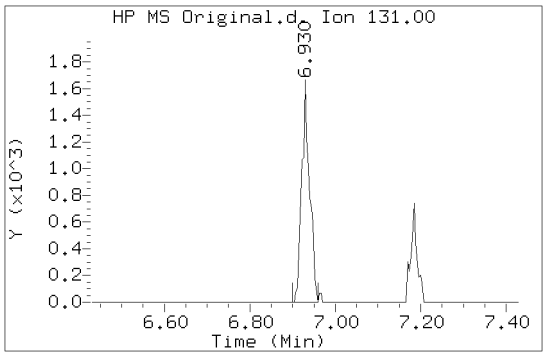
AFTER

MASS
129
AREA
2342
HEIGHT
1697
27-Dec-2022
16:07
linh
pham



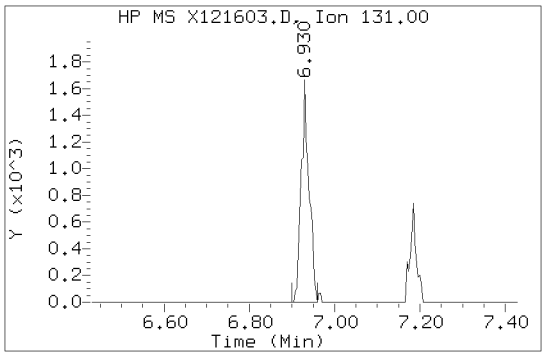
BEFORE

MASS
131
AREA
2193
HEIGHT
1665
27-Dec-2022
16:03
linh
pham



AFTER

MASS
131
AREA
2193
HEIGHT
1665
27-Dec-2022
16:07
linh
pham

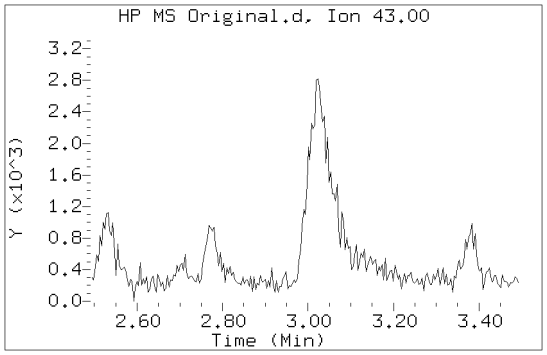


Vinyl Acetate (108-05-4)

Reason Code:

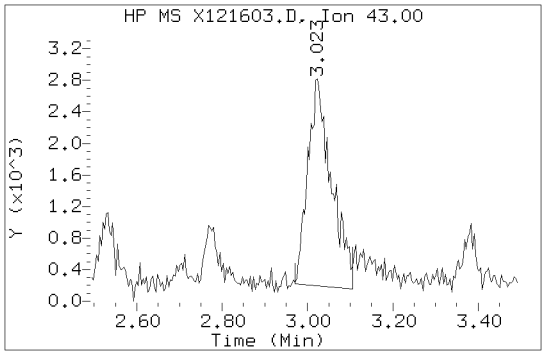
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



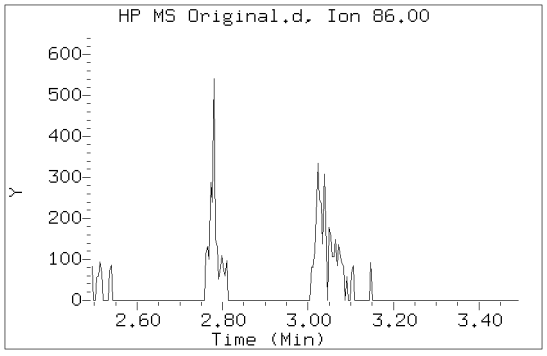
AFTER

MASS
43
AREA
10138
HEIGHT
2622
27-Dec-2022
16:07
linh
pham



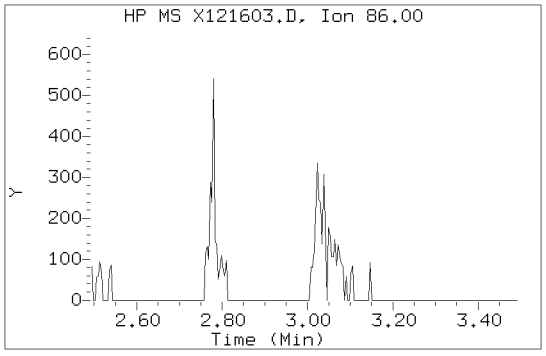
BEFORE

MASS
86
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



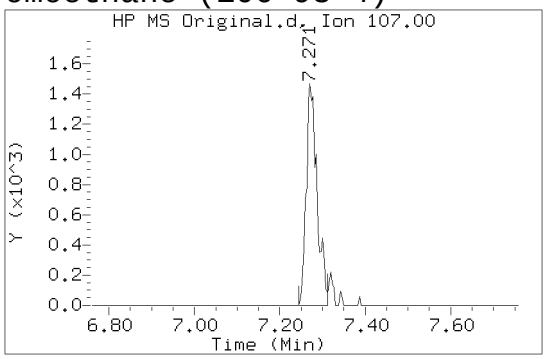
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dibromoethane (106-93-4)

Reason Code:

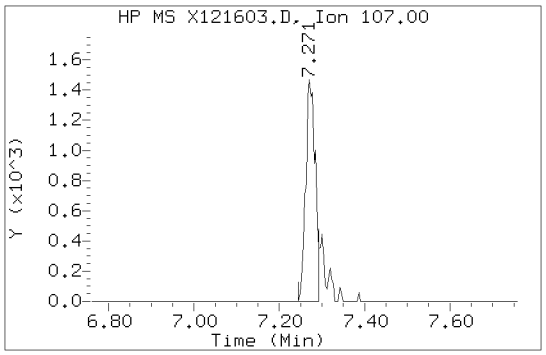
BEFORE

MASS
107
AREA
2627
HEIGHT
1469
27-Dec-2022
16:03
linh
pham



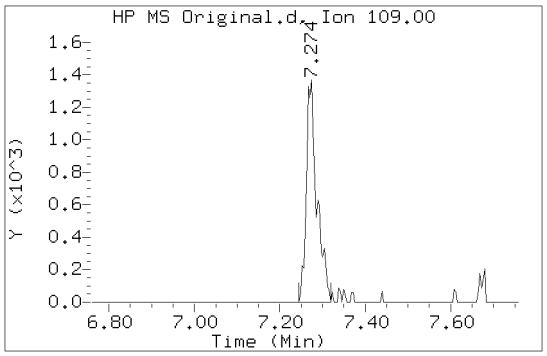
AFTER

MASS
107
AREA
2340
HEIGHT
1469
27-Dec-2022
16:07
linh
pham



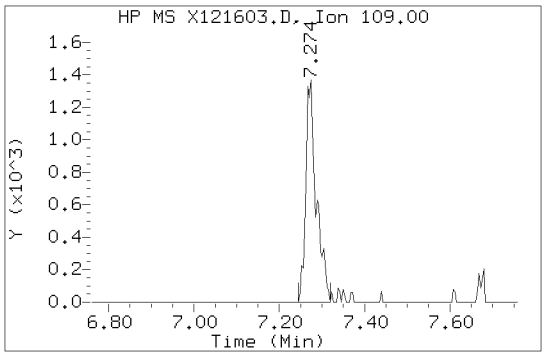
BEFORE

MASS
109
AREA
2396
HEIGHT
1369
27-Dec-2022
16:03
linh
pham



AFTER

MASS
109
AREA
2396
HEIGHT
1369
27-Dec-2022
16:07
linh
pham

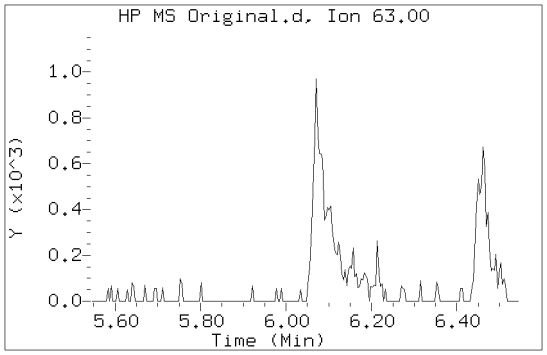


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

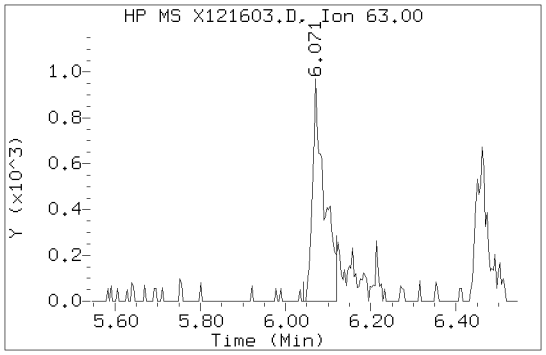
BEFORE

MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



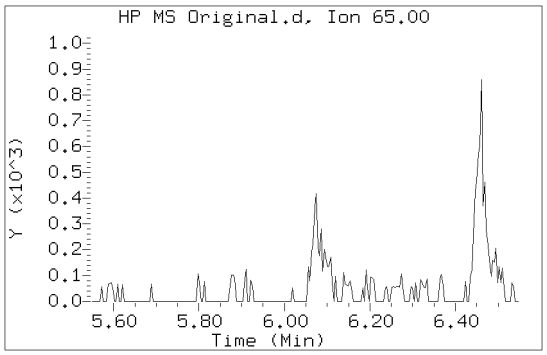
AFTER

MASS
63
AREA
1861
HEIGHT
970
27-Dec-2022
16:07
linh
pham



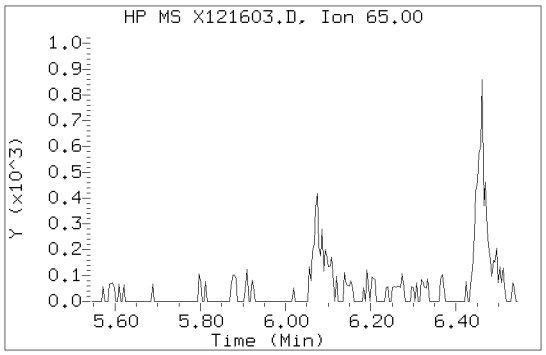
BEFORE

MASS
65
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
65
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



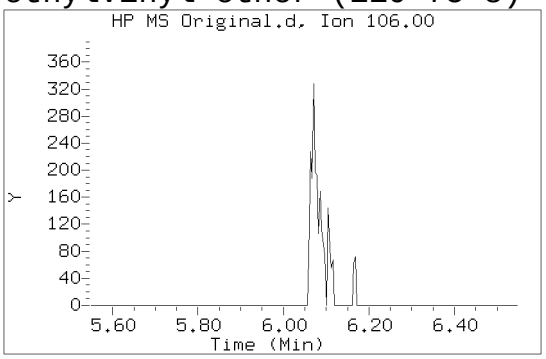
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

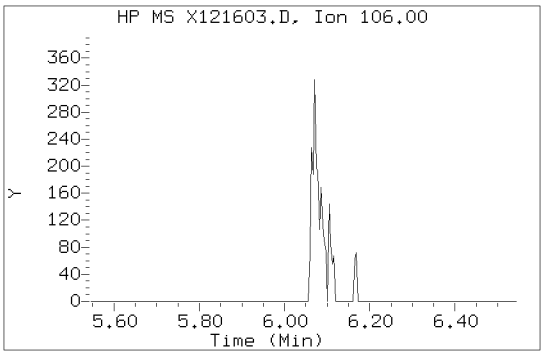
BEFORE

MASS
106
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

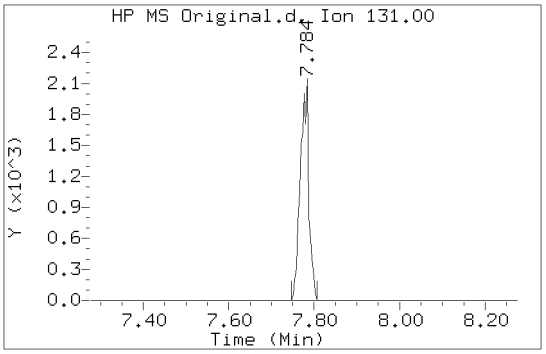


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

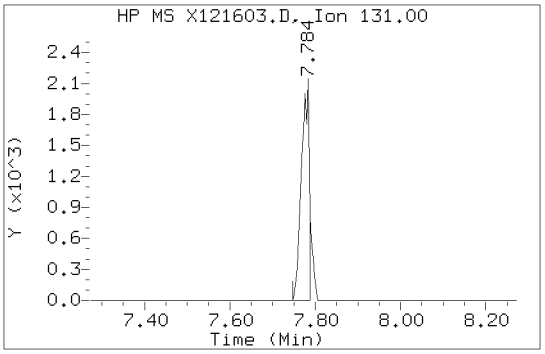
BEFORE

MASS
131
AREA
3036
HEIGHT
2146
27-Dec-2022
16:03
linh
pham



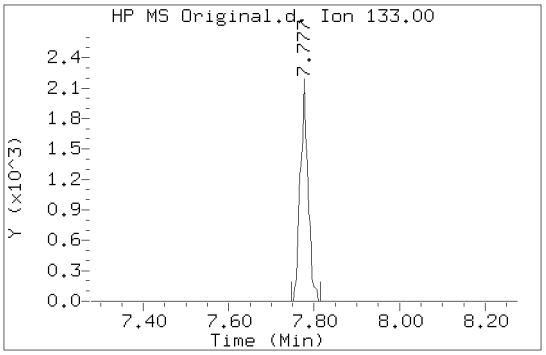
AFTER

MASS
131
AREA
2741
HEIGHT
2146
27-Dec-2022
16:07
linh
pham



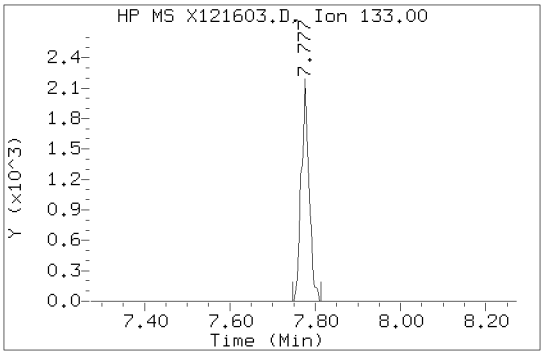
BEFORE

MASS
133
AREA
2829
HEIGHT
2191
27-Dec-2022
16:03
linh
pham



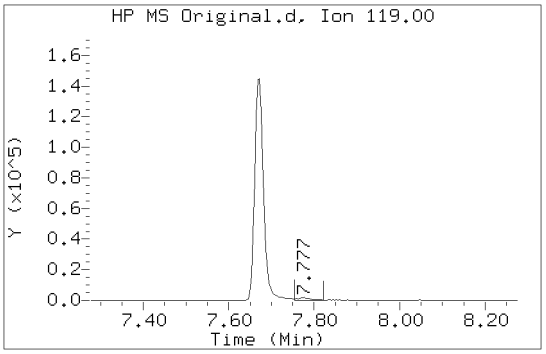
AFTER

MASS
133
AREA
2829
HEIGHT
2191
27-Dec-2022
16:07
linh
pham



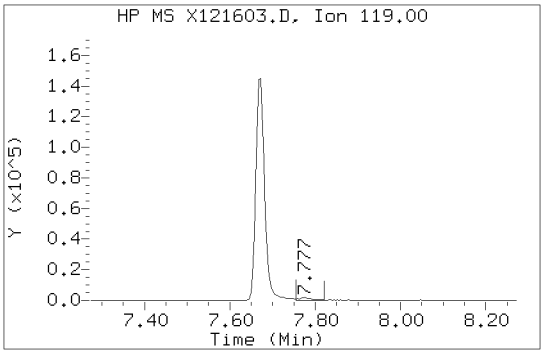
BEFORE

MASS
119
AREA
2971
HEIGHT
1971
27-Dec-2022
16:03
linh
pham



AFTER

MASS
119
AREA
2971
HEIGHT
1971
27-Dec-2022
16:07
linh
pham



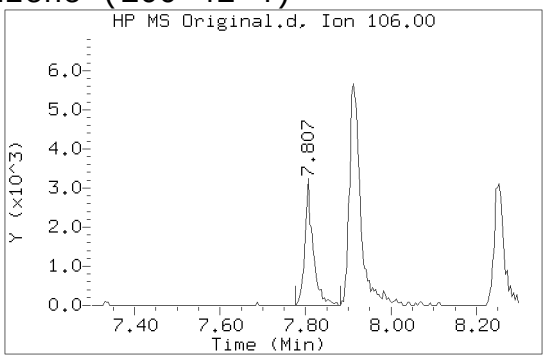
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethylbenzene (100-41-4)

Reason Code:

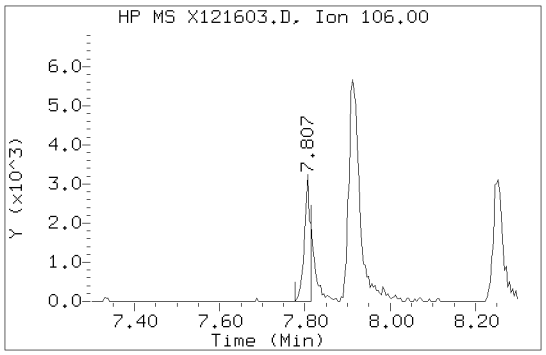
BEFORE

MASS
106
AREA
4331
HEIGHT
3242
27-Dec-2022
16:03
linh
pham



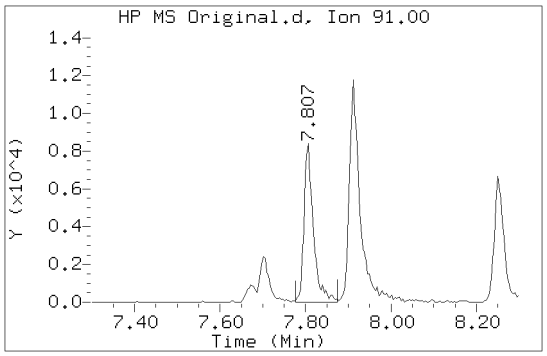
AFTER

MASS
106
AREA
3064
HEIGHT
3242
27-Dec-2022
16:07
linh
pham



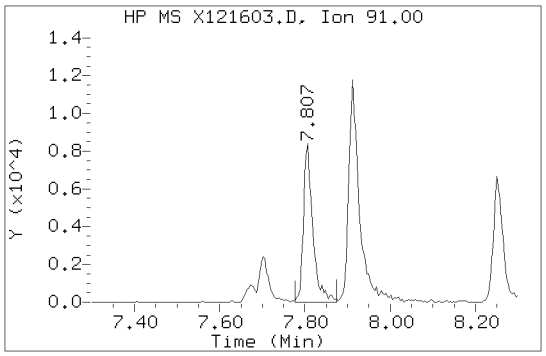
BEFORE

MASS
91
AREA
13136
HEIGHT
8410
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
13136
HEIGHT
8410
27-Dec-2022
16:07
linh
pham

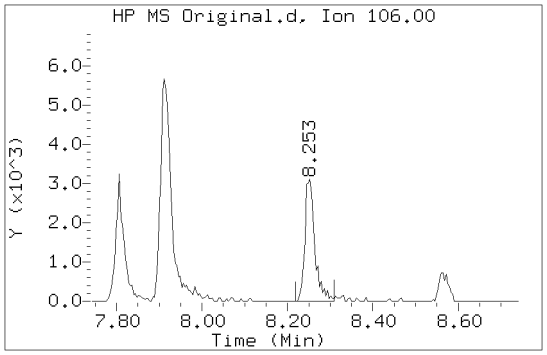


o-Xylene (95-47-6)

Reason Code:

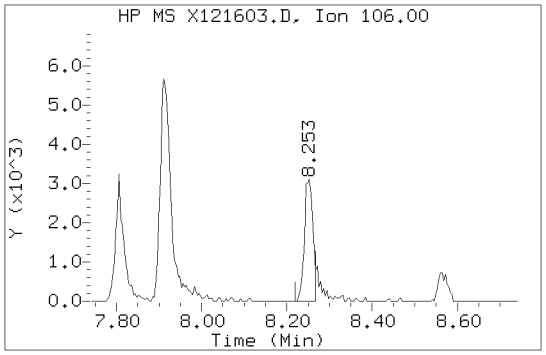
BEFORE

MASS
106
AREA
5100
HEIGHT
3111
27-Dec-2022
16:03
linh
pham



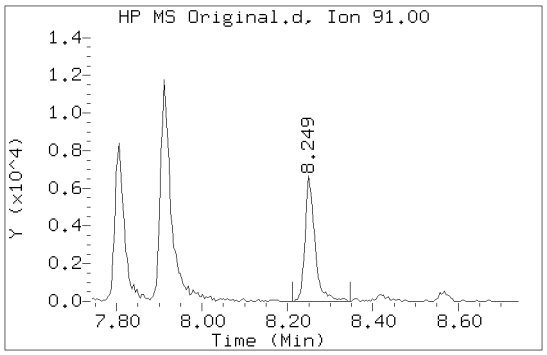
AFTER

MASS
106
AREA
4412
HEIGHT
3111
27-Dec-2022
16:07
linh
pham



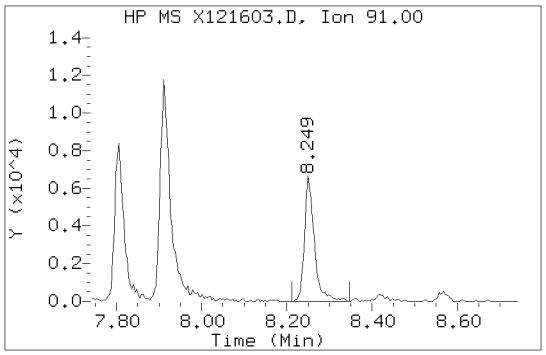
BEFORE

MASS
91
AREA
10808
HEIGHT
6665
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
10808
HEIGHT
6665
27-Dec-2022
16:07
linh
pham

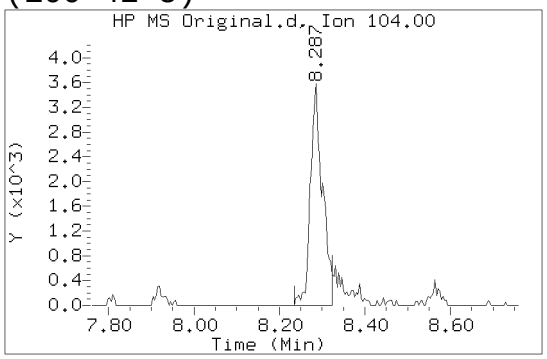


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Styrene (100-42-5)

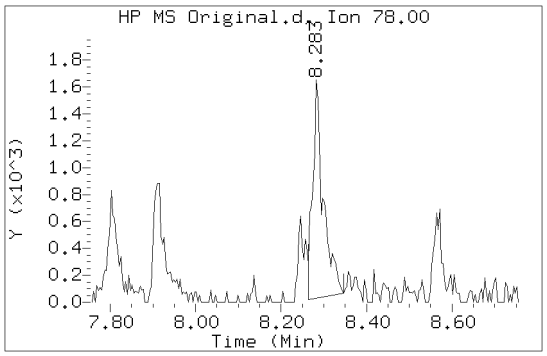
BEFORE

MASS
104
AREA
7074
HEIGHT
3581
27-Dec-2022
16:03
linh
pham



BEFORE

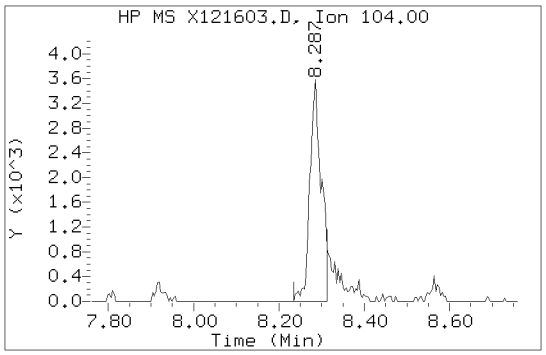
MASS
78
AREA
2827
HEIGHT
1622
27-Dec-2022
16:03
linh
pham



Reason Code:

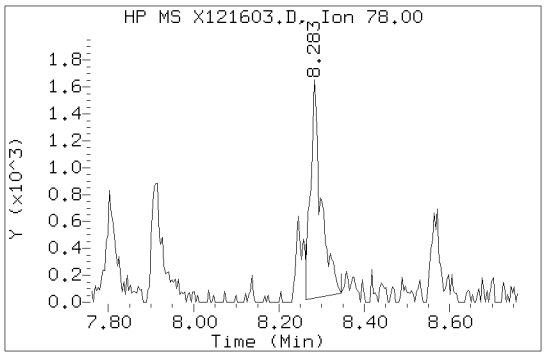
AFTER

MASS
104
AREA
6634
HEIGHT
3581
27-Dec-2022
16:07
linh
pham



AFTER

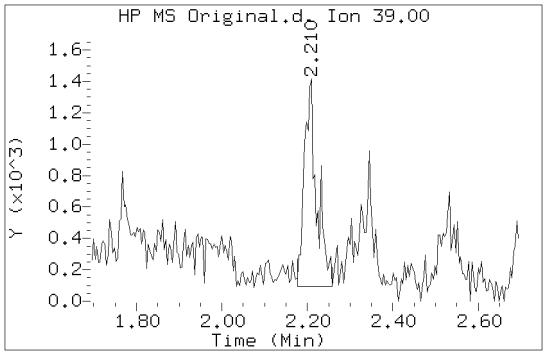
MASS
78
AREA
2827
HEIGHT
1622
27-Dec-2022
16:07
linh
pham



Acetonitrile (75-05-8)

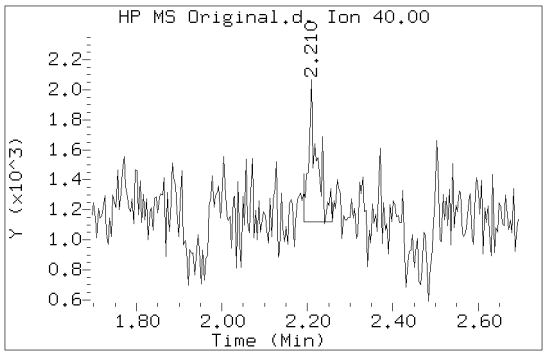
BEFORE

MASS
39
AREA
2674
HEIGHT
1321
27-Dec-2022
16:03
linh
pham



BEFORE

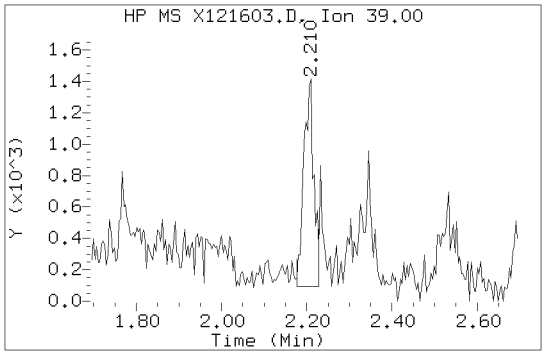
MASS
40
AREA
1296
HEIGHT
946
27-Dec-2022
16:03
linh
pham



Reason Code:

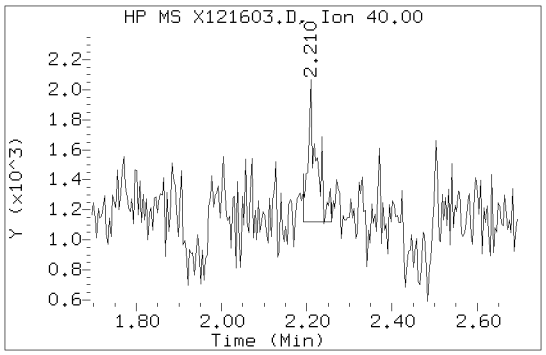
AFTER

MASS
39
AREA
2204
HEIGHT
1321
27-Dec-2022
16:07
linh
pham



AFTER

MASS
40
AREA
1296
HEIGHT
946
27-Dec-2022
16:07
linh
pham



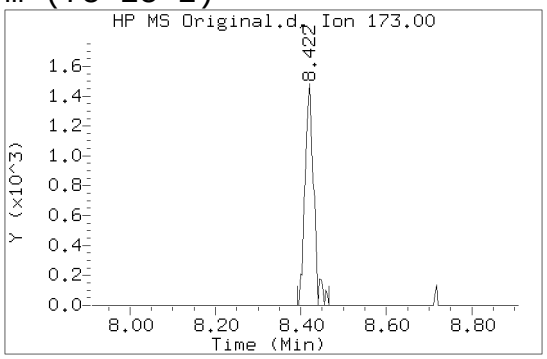
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

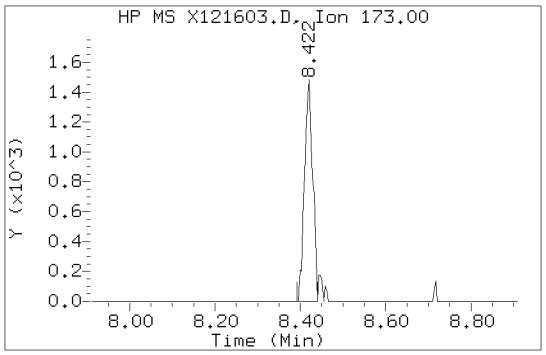
BEFORE

MASS
173
AREA
2158
HEIGHT
1483
27-Dec-2022
16:03
linh
pham



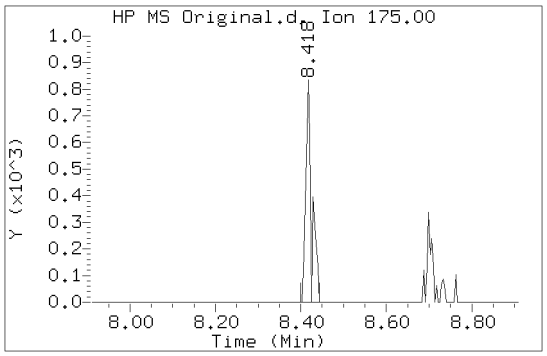
AFTER

MASS
173
AREA
2013
HEIGHT
1483
27-Dec-2022
16:07
linh
pham



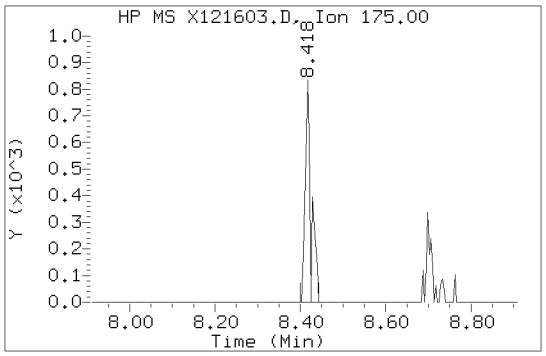
BEFORE

MASS
175
AREA
807
HEIGHT
835
27-Dec-2022
16:03
linh
pham



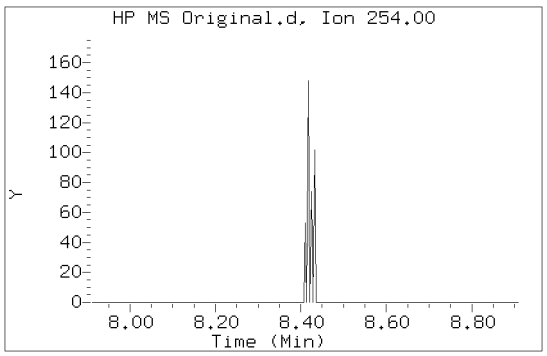
AFTER

MASS
175
AREA
807
HEIGHT
835
27-Dec-2022
16:07
linh
pham



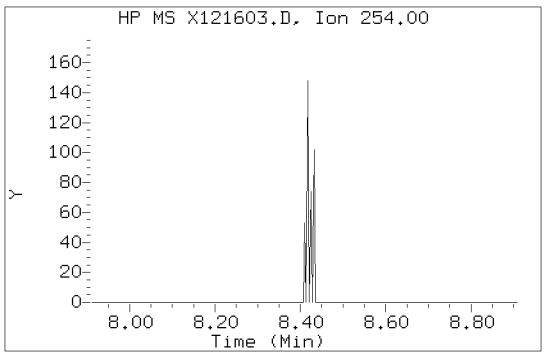
BEFORE

MASS
254
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

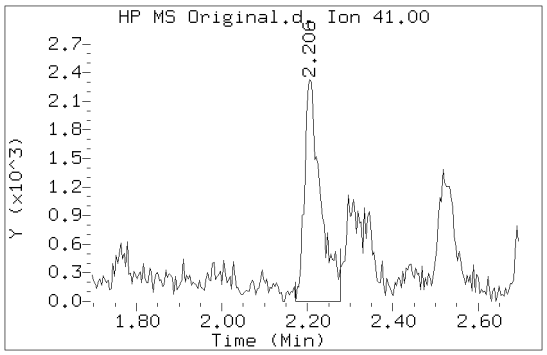


Allyl Chloride (107-05-1)

Reason Code:

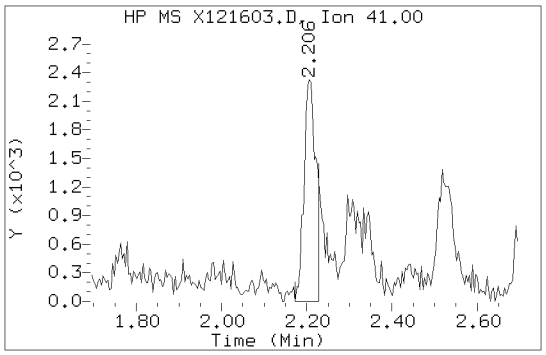
BEFORE

MASS
41
AREA
6169
HEIGHT
2326
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
4574
HEIGHT
2326
27-Dec-2022
16:07
linh
pham



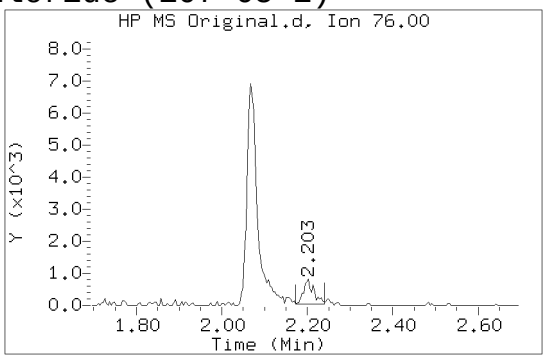
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Allyl Chloride (107-05-1)

Reason Code:

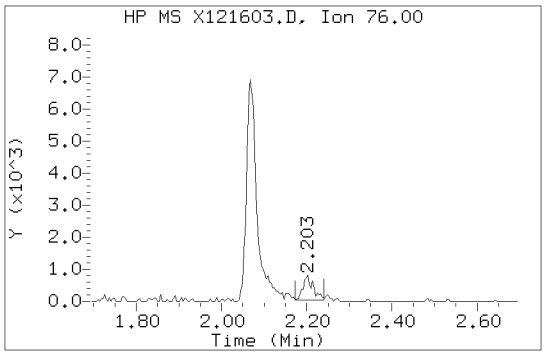
BEFORE

MASS
76
AREA
1254
HEIGHT
763
27-Dec-2022
16:03
linh
pham



AFTER

MASS
76
AREA
1254
HEIGHT
763
27-Dec-2022
16:07
linh
pham

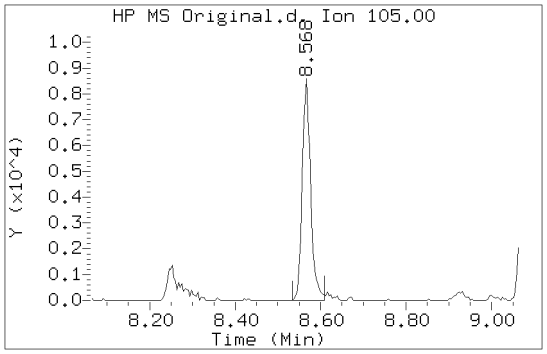


Isopropylbenzene (98-82-8)

Reason Code:

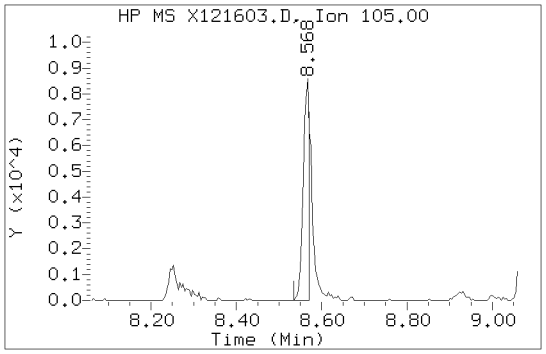
BEFORE

MASS
105
AREA
12091
HEIGHT
8588
27-Dec-2022
16:03
linh
pham



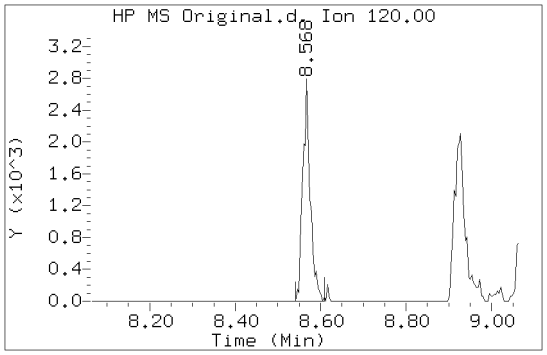
AFTER

MASS
105
AREA
8757
HEIGHT
8588
27-Dec-2022
16:07
linh
pham



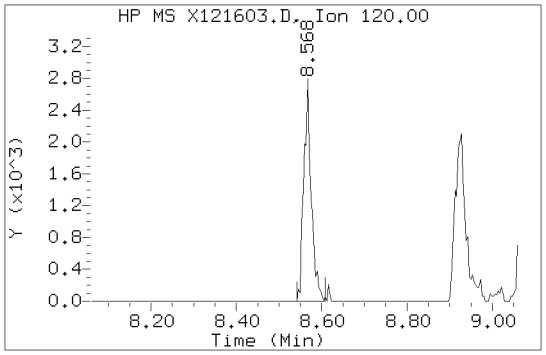
BEFORE

MASS
120
AREA
3462
HEIGHT
2793
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
3462
HEIGHT
2793
27-Dec-2022
16:07
linh
pham

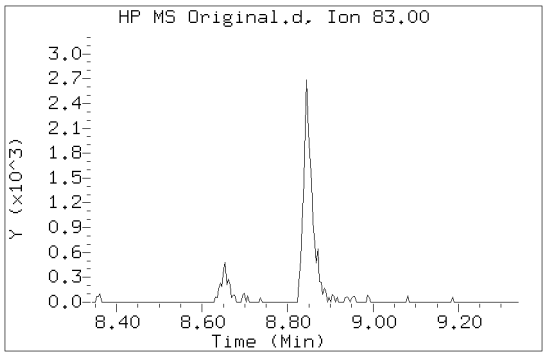


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

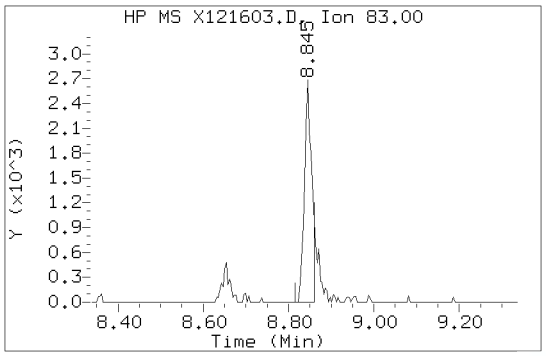
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
3194
HEIGHT
2685
27-Dec-2022
16:07
linh
pham



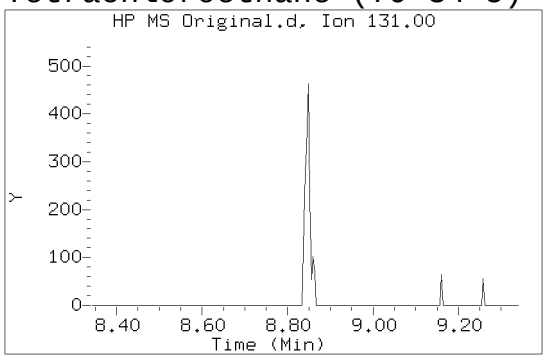
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

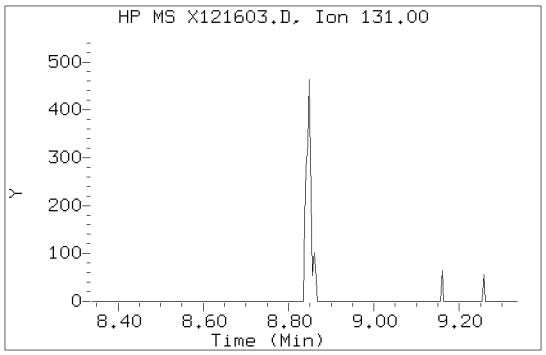
BEFORE

MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



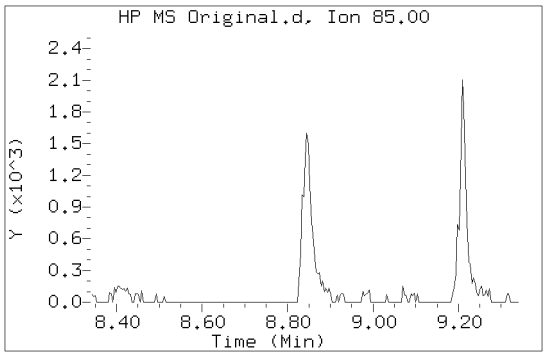
AFTER

MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



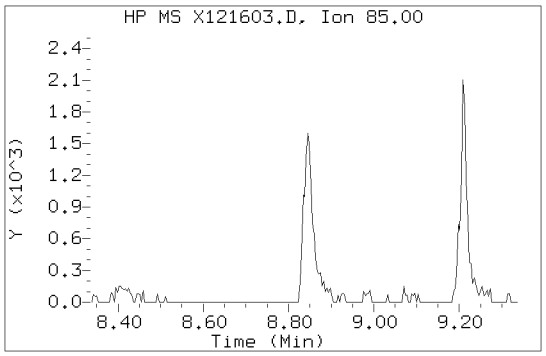
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

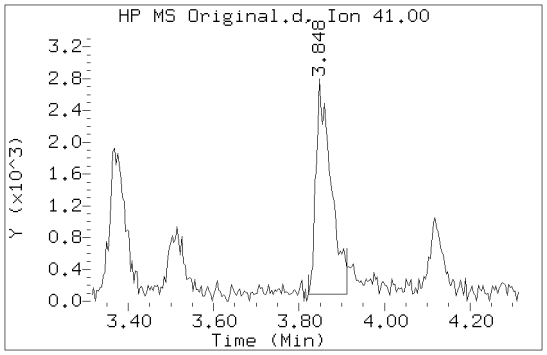


Methacrylonitrile (126-98-7)

Reason Code:

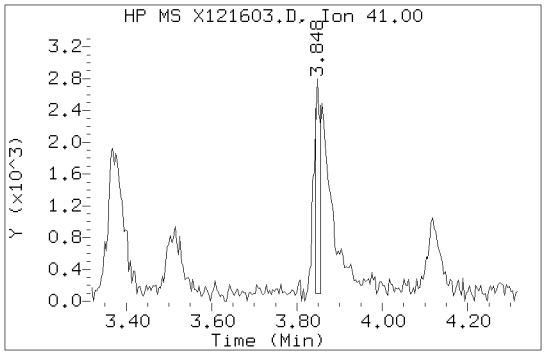
BEFORE

MASS
41
AREA
6587
HEIGHT
2708
27-Dec-2022
16:03
linh
pham



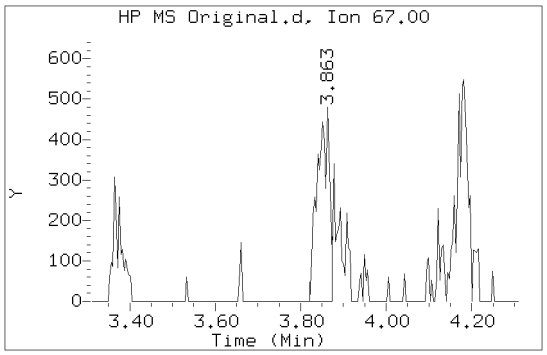
AFTER

MASS
41
AREA
2066
HEIGHT
2701
27-Dec-2022
16:07
linh
pham



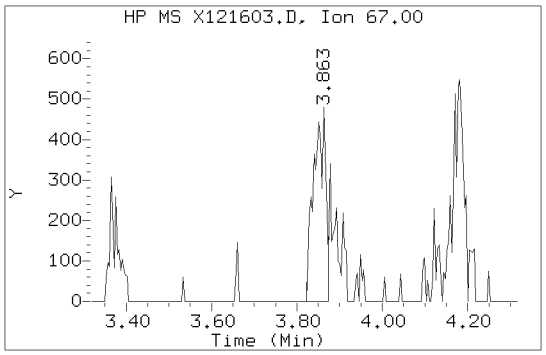
BEFORE

MASS
67
AREA
937
HEIGHT
480
27-Dec-2022
16:03
linh
pham



AFTER

MASS
67
AREA
937
HEIGHT
480
27-Dec-2022
16:07
linh
pham



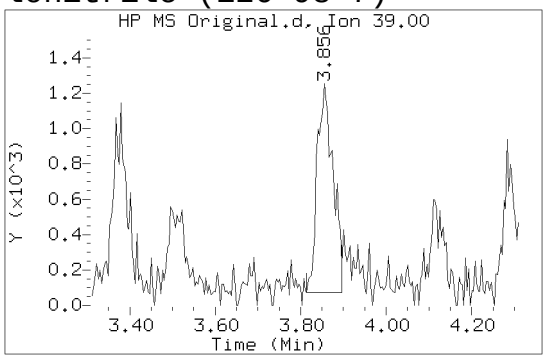
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

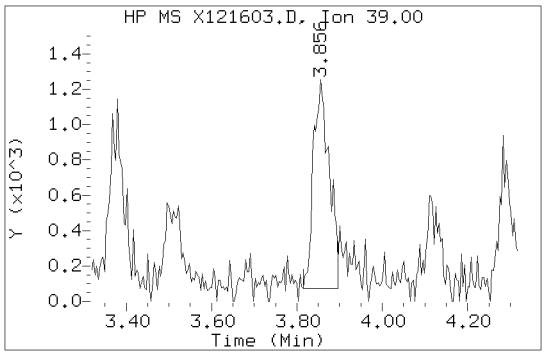
BEFORE

MASS
39
AREA
3048
HEIGHT
1181
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
3048
HEIGHT
1181
27-Dec-2022
16:07
linh
pham

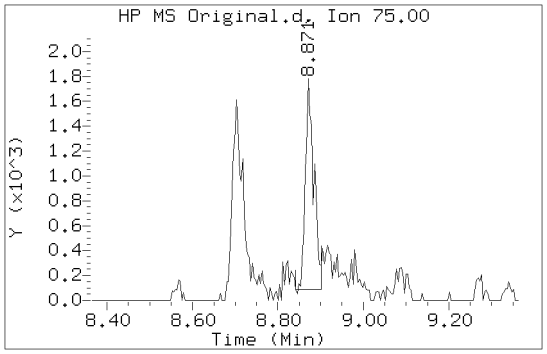


1,2,3-Trichloropropane (96-18-4)

Reason Code:

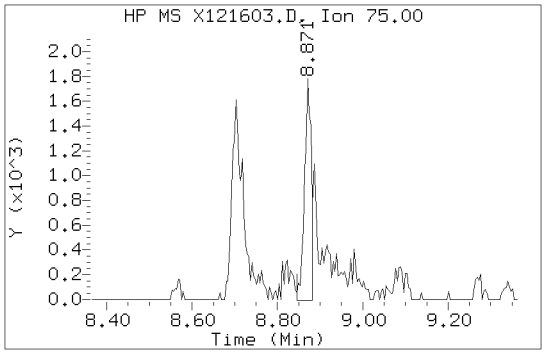
BEFORE

MASS
75
AREA
2351
HEIGHT
1693
27-Dec-2022
16:03
linh
pham



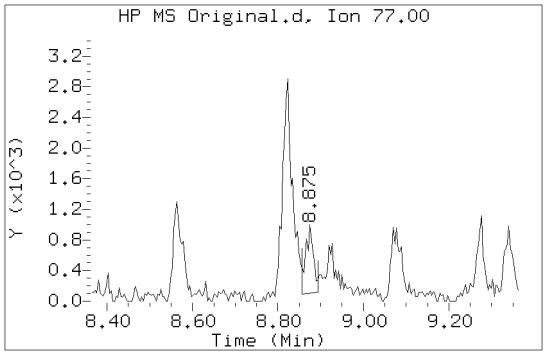
AFTER

MASS
75
AREA
2019
HEIGHT
1788
27-Dec-2022
16:07
linh
pham



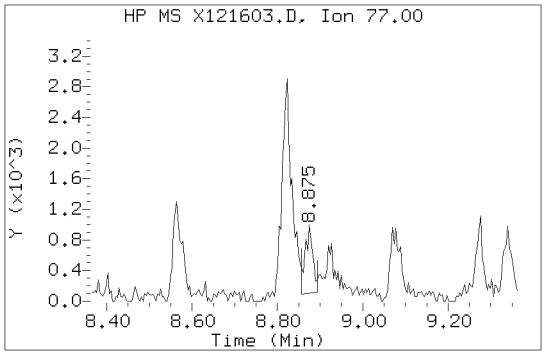
BEFORE

MASS
77
AREA
1161
HEIGHT
895
27-Dec-2022
16:03
linh
pham



AFTER

MASS
77
AREA
1161
HEIGHT
895
27-Dec-2022
16:07
linh
pham

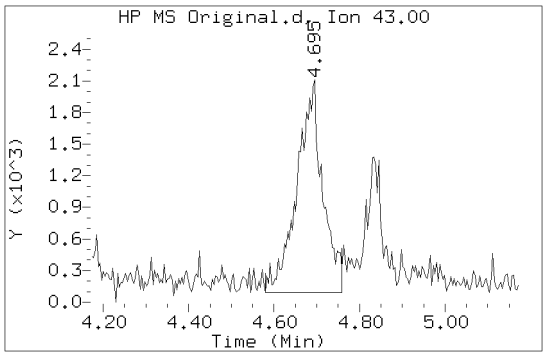


Isobutyl Alcohol (78-83-1)

Reason Code:

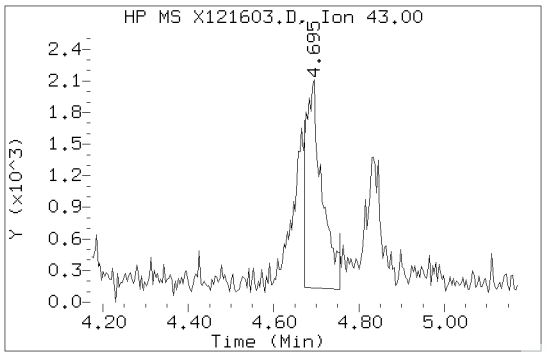
BEFORE

MASS
43
AREA
8478
HEIGHT
2018
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
5178
HEIGHT
1973
27-Dec-2022
16:07
linh
pham



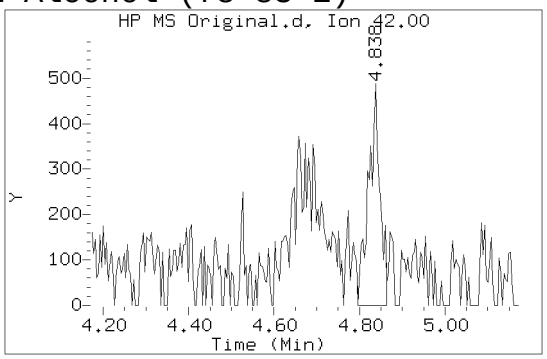
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

Reason Code:

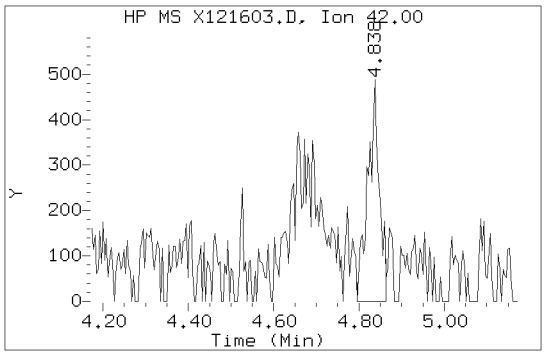
BEFORE

MASS
42
AREA
904
HEIGHT
488
27-Dec-2022
16:03
linh
pham



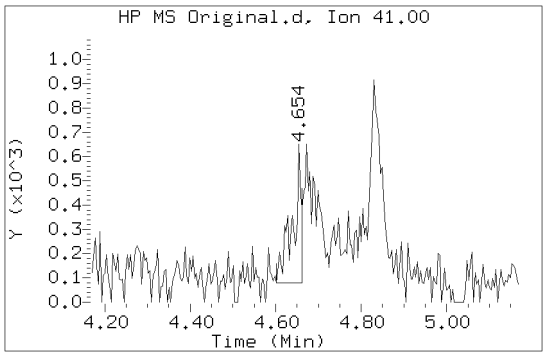
AFTER

MASS
42
AREA
904
HEIGHT
488
27-Dec-2022
16:07
linh
pham



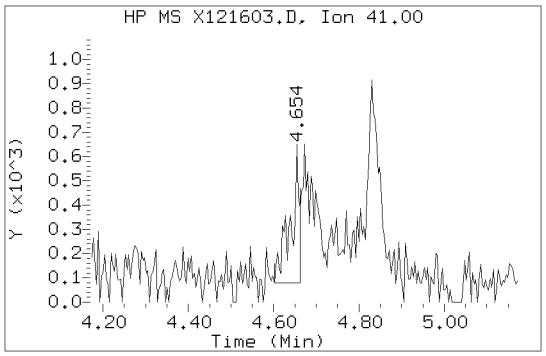
BEFORE

MASS
41
AREA
776
HEIGHT
572
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
776
HEIGHT
572
27-Dec-2022
16:07
linh
pham

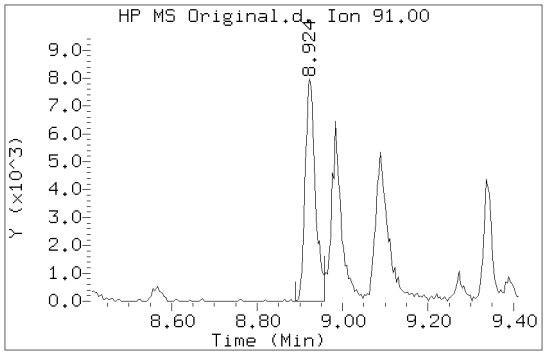


n-Propylbenzene (106-65-1)

Reason Code:

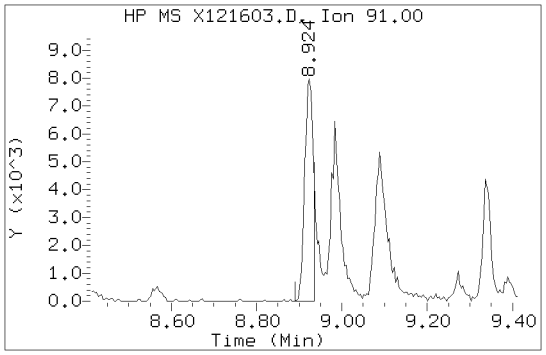
BEFORE

MASS
91
AREA
13496
HEIGHT
7972
27-Dec-2022
16:03
linh
pham



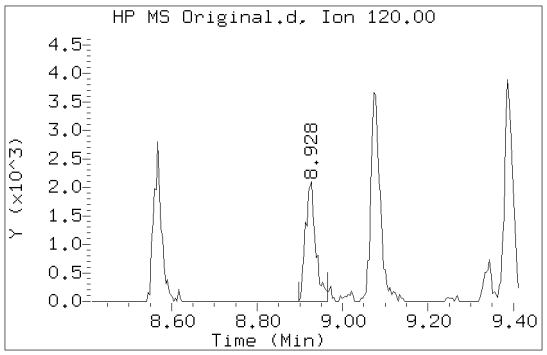
AFTER

MASS
91
AREA
11163
HEIGHT
7972
27-Dec-2022
16:07
linh
pham



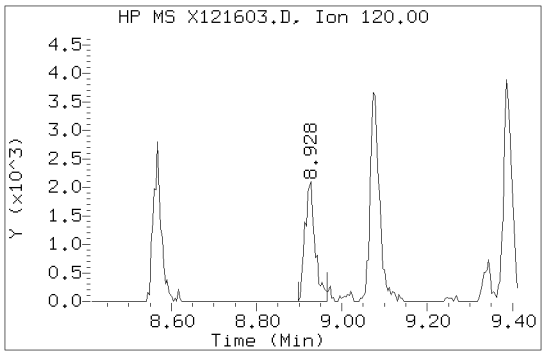
BEFORE

MASS
120
AREA
3559
HEIGHT
2104
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
3559
HEIGHT
2104
27-Dec-2022
16:07
linh
pham

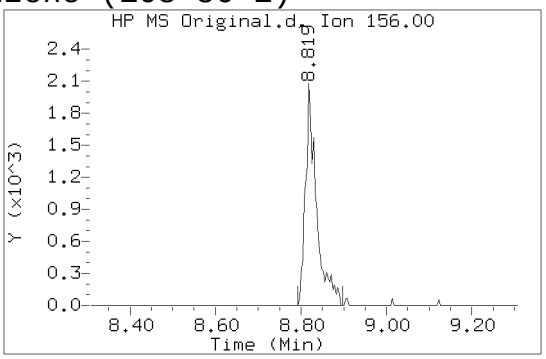


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

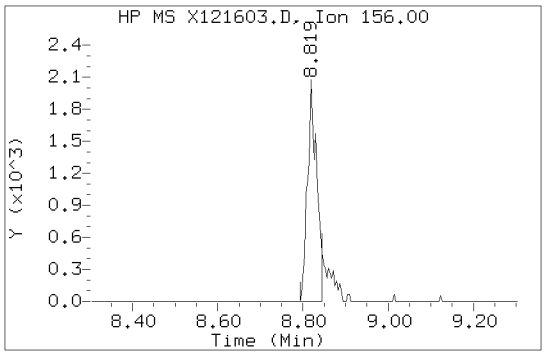
Bromobenzene (108-86-1)

Reason Code:

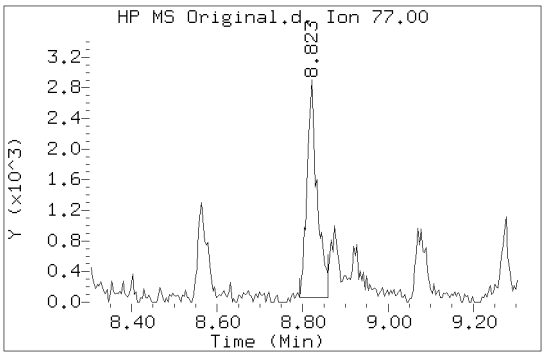
BEFORE
MASS
156
AREA
3747
HEIGHT
2077
27-Dec-2022
16:03
linh
pham



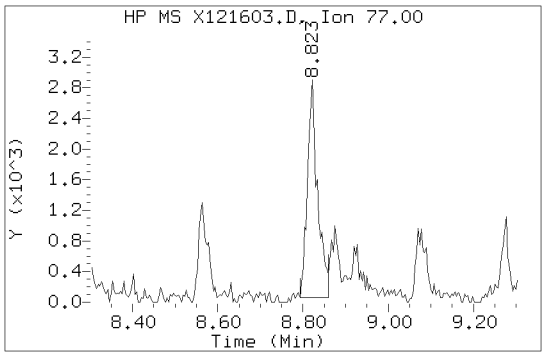
AFTER
MASS
156
AREA
3147
HEIGHT
2077
27-Dec-2022
16:07
linh
pham



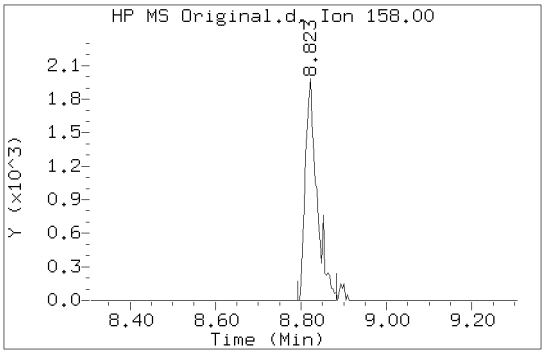
BEFORE
MASS
77
AREA
4719
HEIGHT
2841
27-Dec-2022
16:03
linh
pham



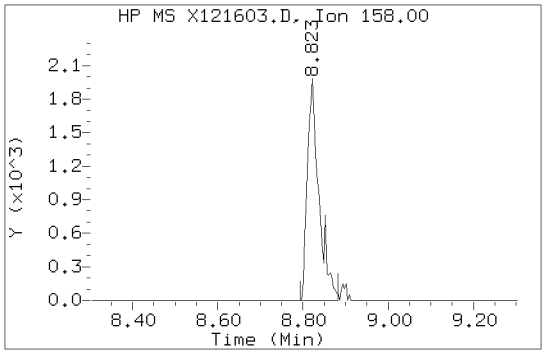
AFTER
MASS
77
AREA
4719
HEIGHT
2841
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
158
AREA
3772
HEIGHT
1983
27-Dec-2022
16:03
linh
pham



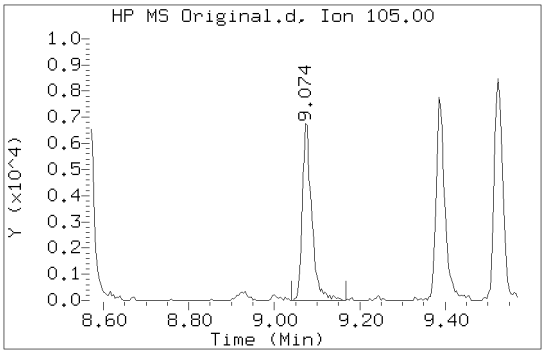
AFTER
MASS
158
AREA
3772
HEIGHT
1983
27-Dec-2022
16:07
linh
pham



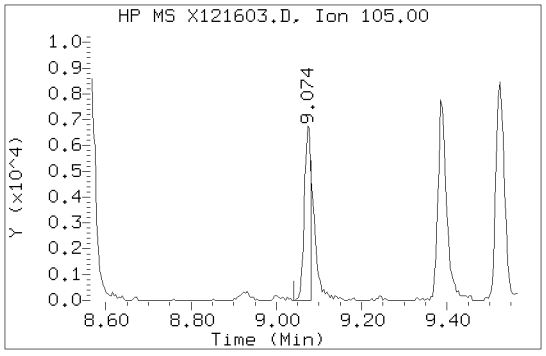
1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

BEFORE
MASS
105
AREA
10555
HEIGHT
6758
27-Dec-2022
16:03
linh
pham



AFTER
MASS
105
AREA
7182
HEIGHT
6758
27-Dec-2022
16:07
linh
pham



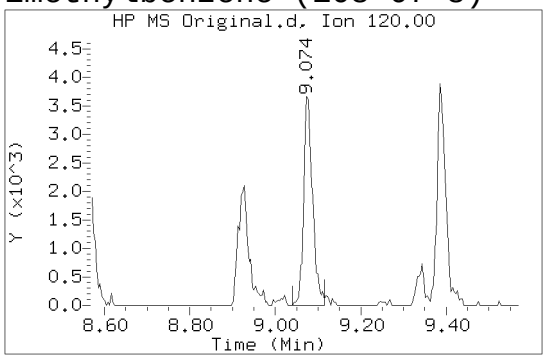
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

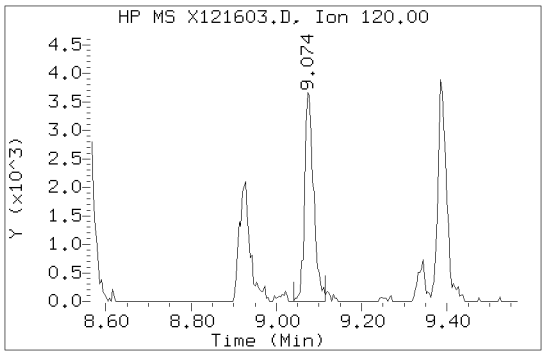
BEFORE

MASS
120
AREA
5450
HEIGHT
3663
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
5450
HEIGHT
3663
27-Dec-2022
16:07
linh
pham

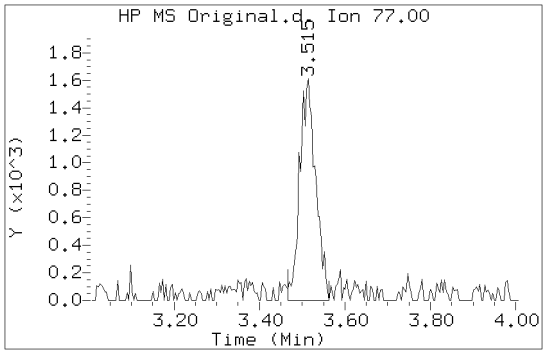


2,2-Dichloropropane (594-20-7)

Reason Code:

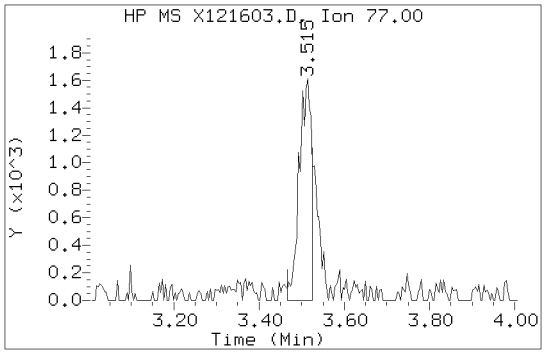
BEFORE

MASS
77
AREA
4217
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



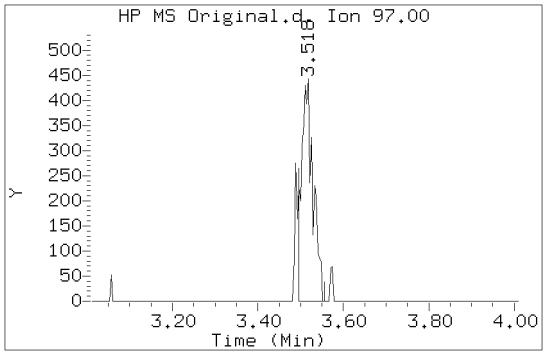
AFTER

MASS
77
AREA
3238
HEIGHT
1612
27-Dec-2022
16:07
linh
pham



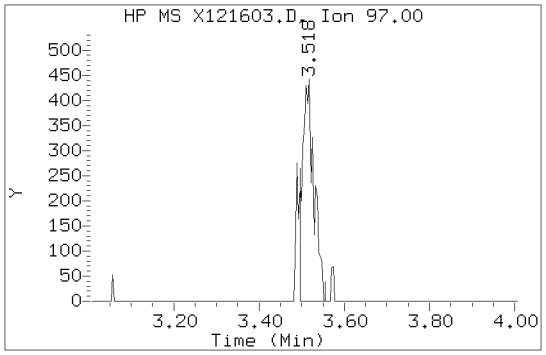
BEFORE

MASS
97
AREA
843
HEIGHT
443
27-Dec-2022
16:03
linh
pham



AFTER

MASS
97
AREA
843
HEIGHT
443
27-Dec-2022
16:07
linh
pham

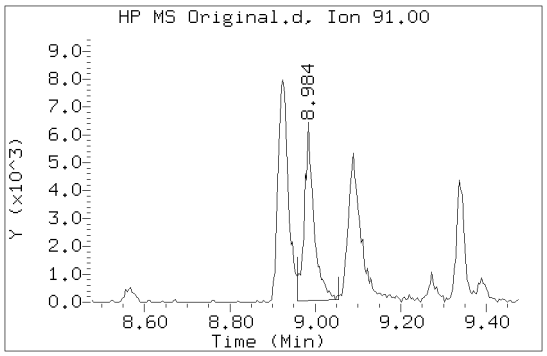


2-Chlorotoluene (95-49-8)

Reason Code:

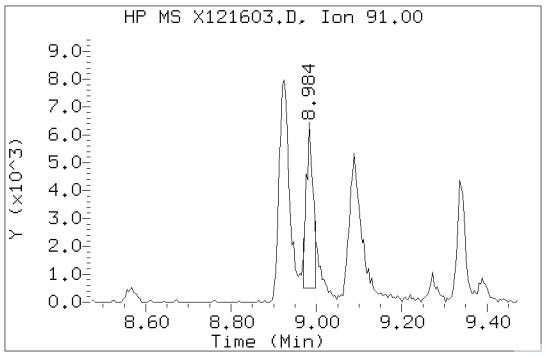
BEFORE

MASS
91
AREA
10128
HEIGHT
6401
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
6718
HEIGHT
5942
27-Dec-2022
16:07
linh
pham



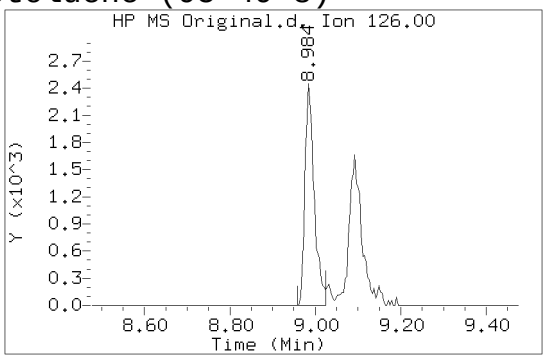
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

Reason Code:

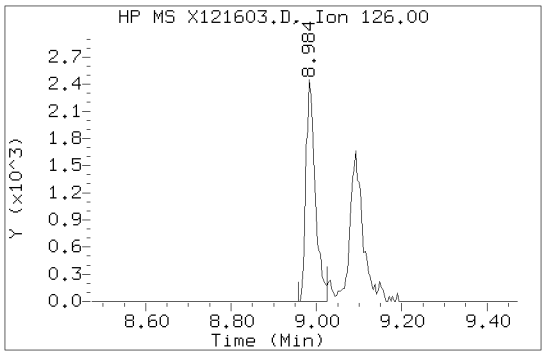
BEFORE

MASS
126
AREA
3761
HEIGHT
2450
27-Dec-2022
16:03
linh
pham



AFTER

MASS
126
AREA
3761
HEIGHT
2450
27-Dec-2022
16:07
linh
pham

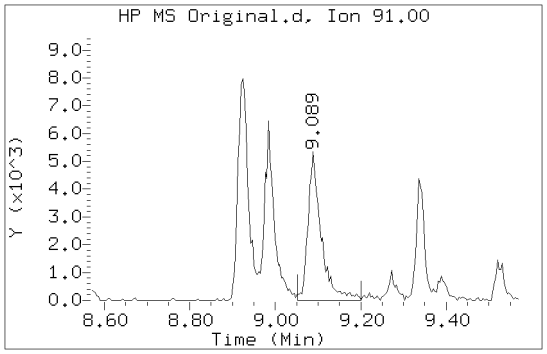


4-Chlorotoluene (106-43-4)

Reason Code:

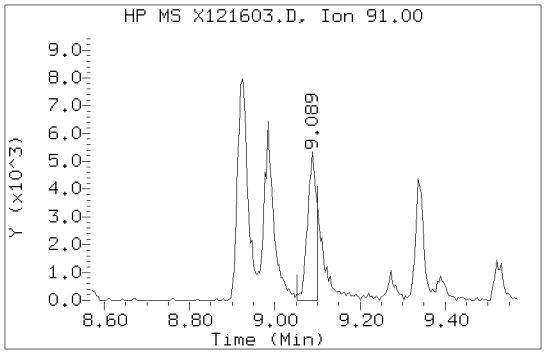
BEFORE

MASS
91
AREA
11481
HEIGHT
5337
27-Dec-2022
16:03
linh
pham



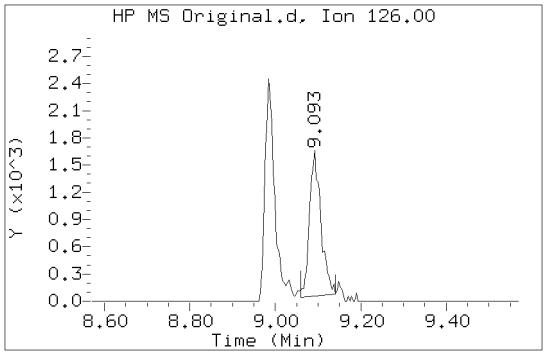
AFTER

MASS
91
AREA
7644
HEIGHT
5337
27-Dec-2022
16:07
linh
pham



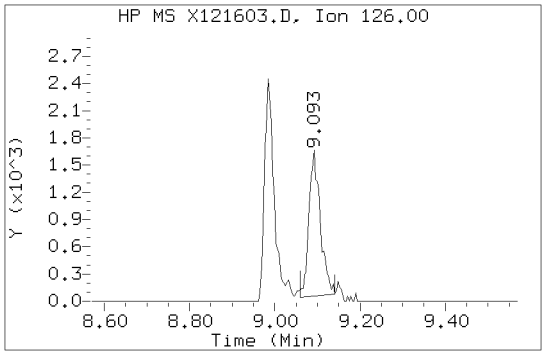
BEFORE

MASS
126
AREA
3008
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



AFTER

MASS
126
AREA
3008
HEIGHT
1612
27-Dec-2022
16:07
linh
pham

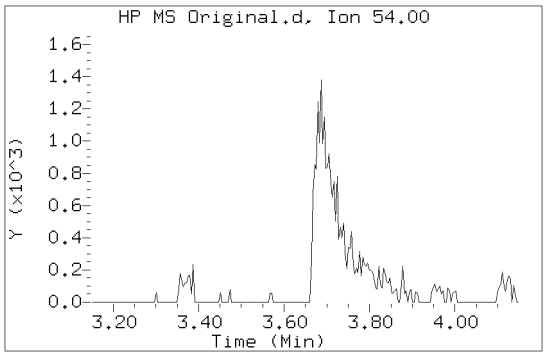


Propionitrile (107-12-0)

Reason Code:

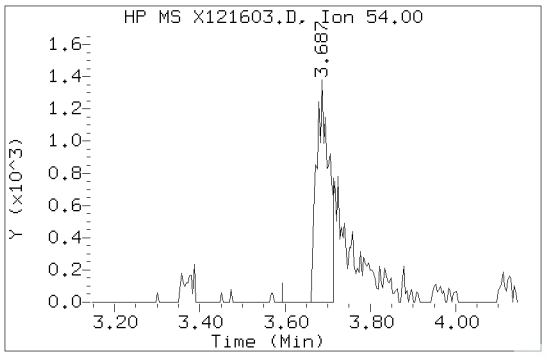
BEFORE

MASS
54
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
54
AREA
2777
HEIGHT
1380
27-Dec-2022
16:07
linh
pham



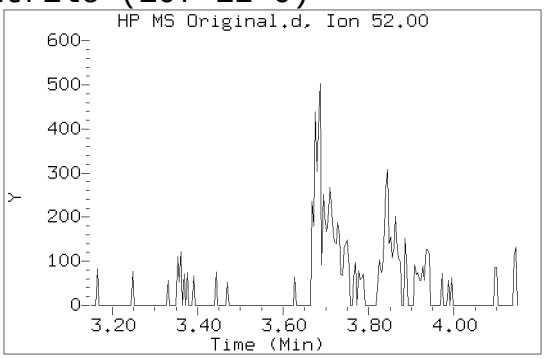
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

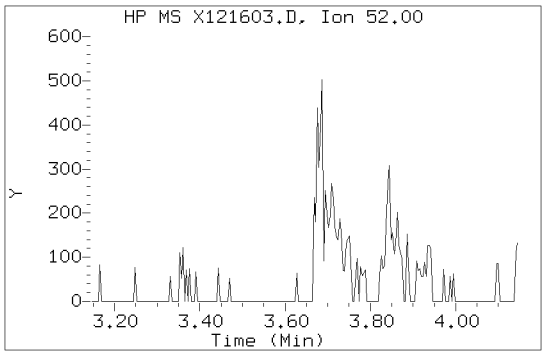
BEFORE

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



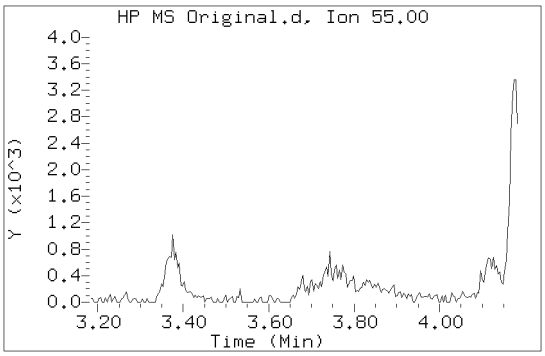
AFTER

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



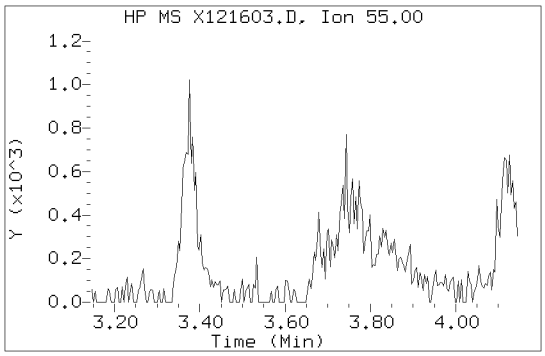
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

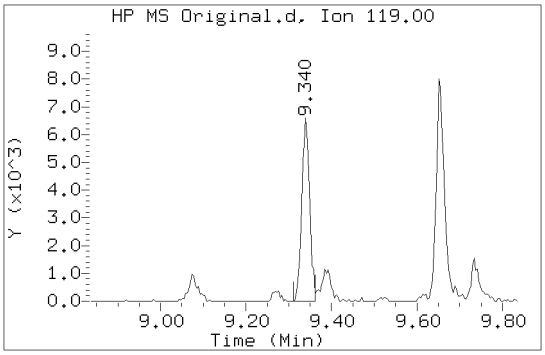


tert-Butylbenzene (98-06-6)

Reason Code:

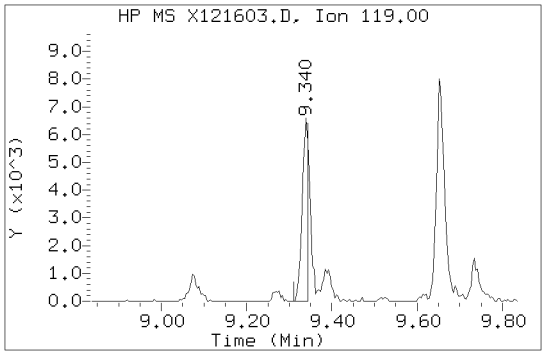
BEFORE

MASS
119
AREA
8660
HEIGHT
6598
27-Dec-2022
16:03
linh
pham



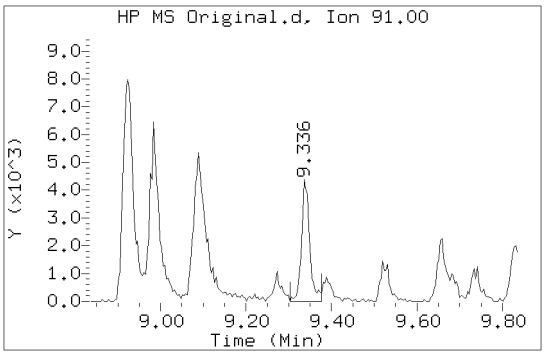
AFTER

MASS
119
AREA
6389
HEIGHT
6598
27-Dec-2022
16:07
linh
pham



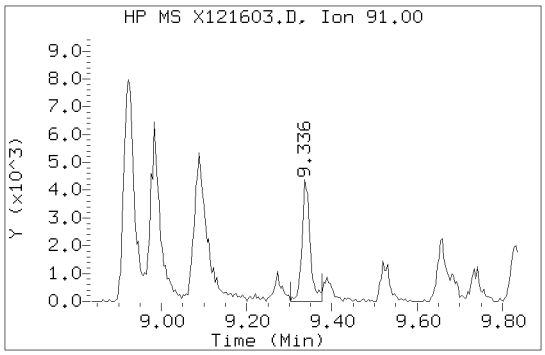
BEFORE

MASS
91
AREA
6013
HEIGHT
4378
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
6013
HEIGHT
4378
27-Dec-2022
16:07
linh
pham



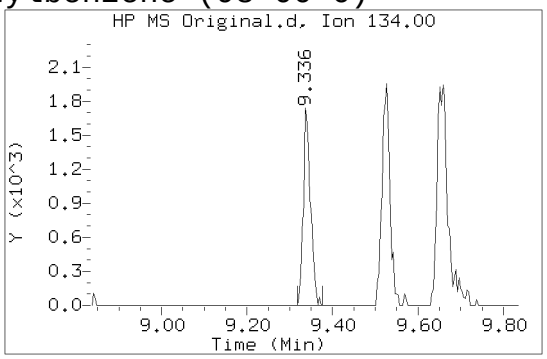
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butylbenzene (98-06-6)

Reason Code:

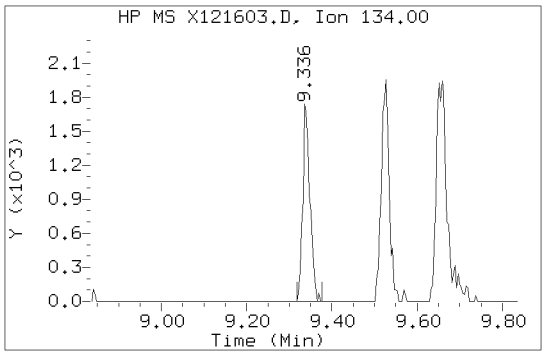
BEFORE

MASS
134
AREA
2112
HEIGHT
1740
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2112
HEIGHT
1740
27-Dec-2022
16:07
linh
pham

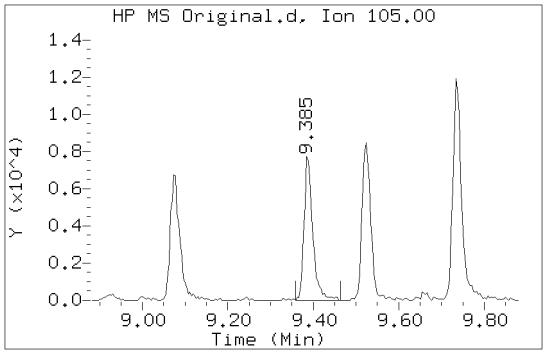


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

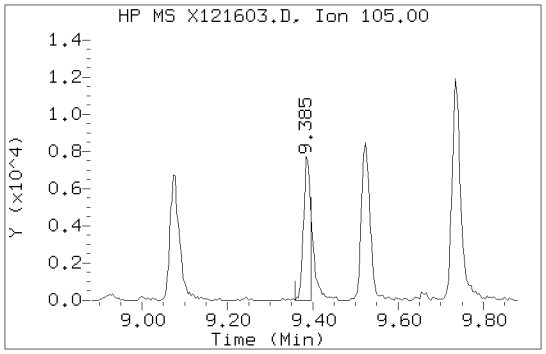
BEFORE

MASS
105
AREA
11065
HEIGHT
7775
27-Dec-2022
16:03
linh
pham



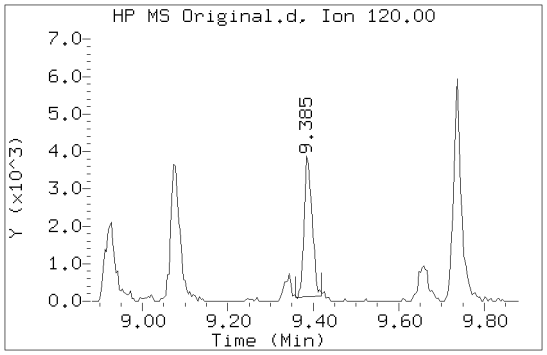
AFTER

MASS
105
AREA
8496
HEIGHT
7775
27-Dec-2022
16:07
linh
pham



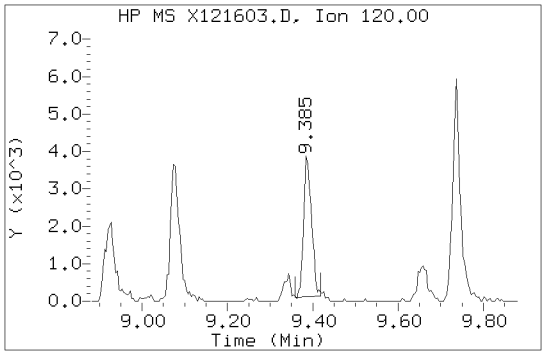
BEFORE

MASS
120
AREA
4898
HEIGHT
3773
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
4898
HEIGHT
3773
27-Dec-2022
16:07
linh
pham

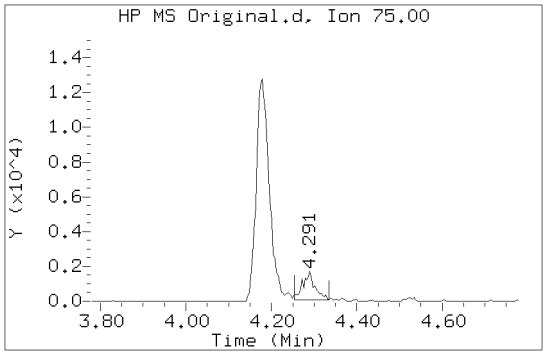


1,1-Dichloropropene (563-58-6)

Reason Code:

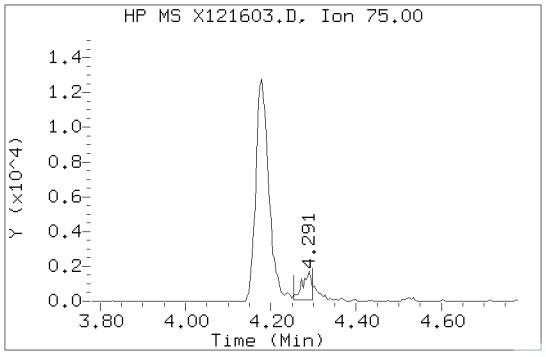
BEFORE

MASS
75
AREA
3235
HEIGHT
1674
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
2468
HEIGHT
1674
27-Dec-2022
16:07
linh
pham



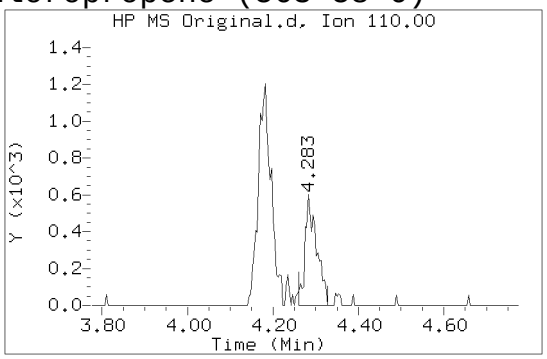
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

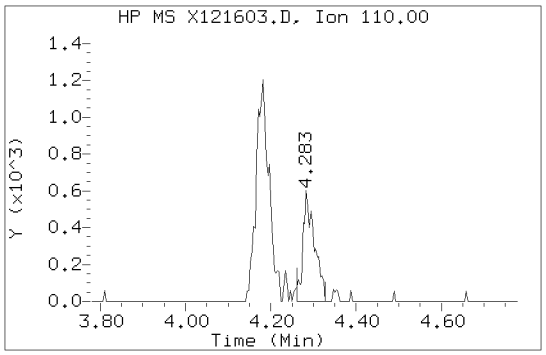
BEFORE

MASS
110
AREA
1143
HEIGHT
603
27-Dec-2022
16:03
linh
pham



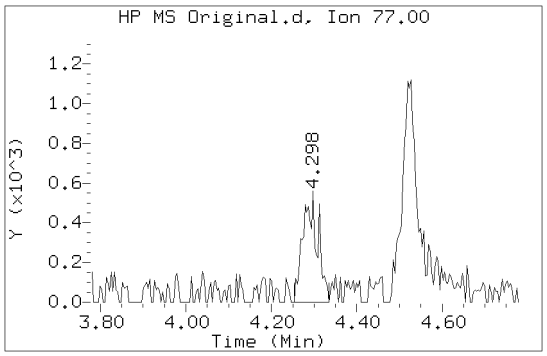
AFTER

MASS
110
AREA
1143
HEIGHT
603
27-Dec-2022
16:07
linh
pham



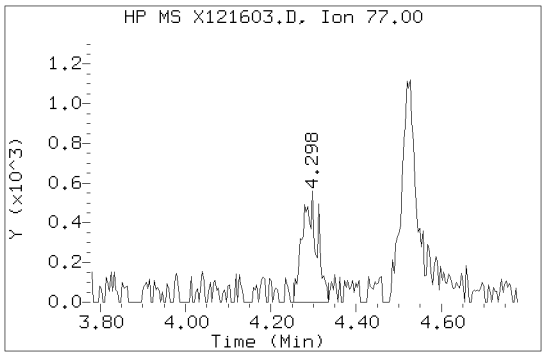
BEFORE

MASS
77
AREA
1342
HEIGHT
559
27-Dec-2022
16:03
linh
pham



AFTER

MASS
77
AREA
1342
HEIGHT
559
27-Dec-2022
16:07
linh
pham

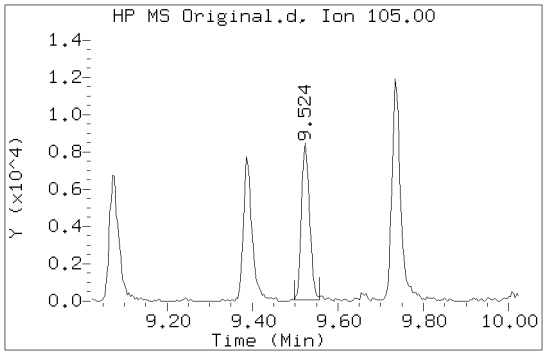


sec-Butylbenzene (135-98-8)

Reason Code:

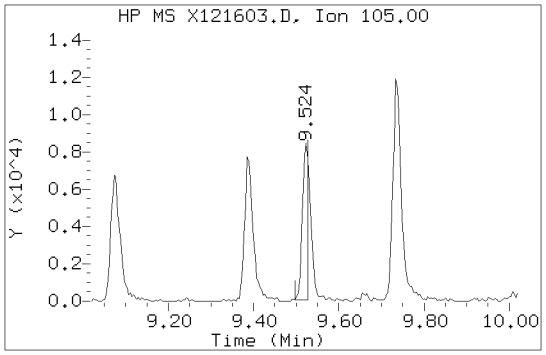
BEFORE

MASS
105
AREA
11512
HEIGHT
8394
27-Dec-2022
16:03
linh
pham



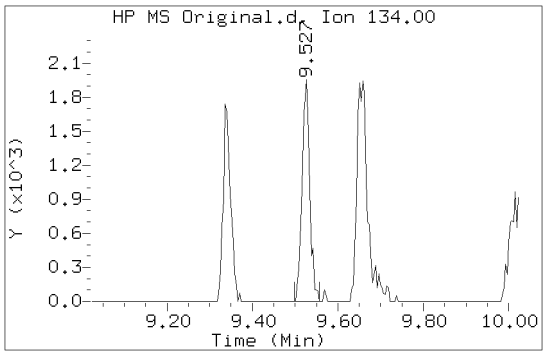
AFTER

MASS
105
AREA
7938
HEIGHT
8394
27-Dec-2022
16:07
linh
pham



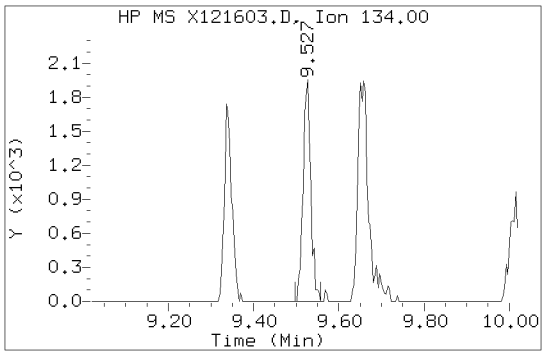
BEFORE

MASS
134
AREA
2519
HEIGHT
1955
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2519
HEIGHT
1955
27-Dec-2022
16:07
linh
pham



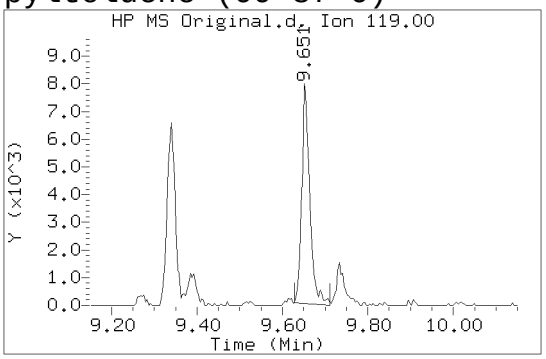
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

p-Isopropyltoluene (99-87-6)

Reason Code:

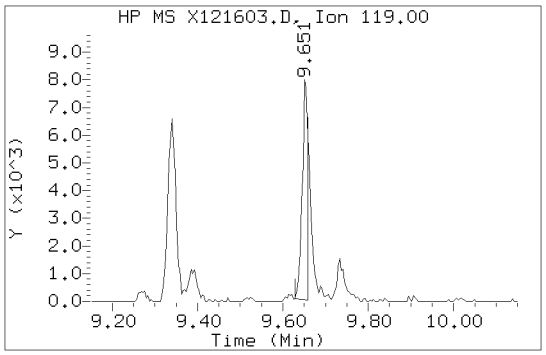
BEFORE

MASS
119
AREA
10660
HEIGHT
7944
27-Dec-2022
16:03
linh
pham



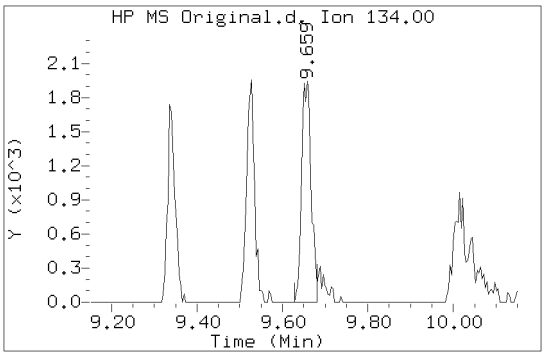
AFTER

MASS
119
AREA
7343
HEIGHT
7944
27-Dec-2022
16:07
linh
pham



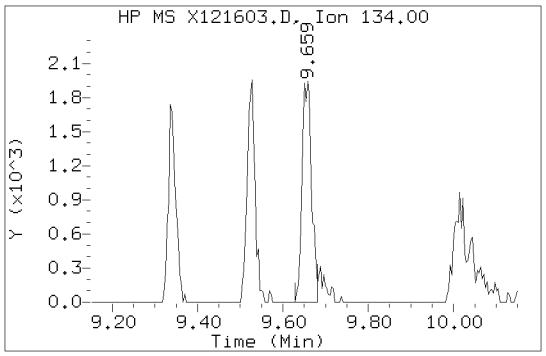
BEFORE

MASS
134
AREA
3102
HEIGHT
1946
27-Dec-2022
16:03
linh
pham



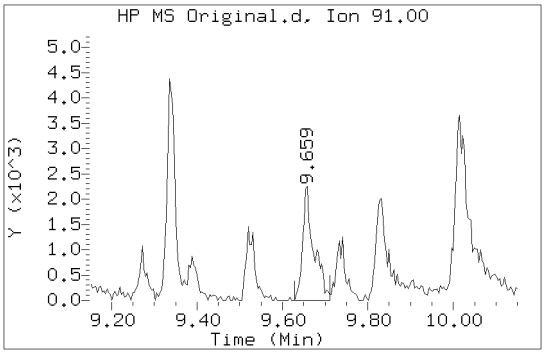
AFTER

MASS
134
AREA
3102
HEIGHT
1946
27-Dec-2022
16:07
linh
pham



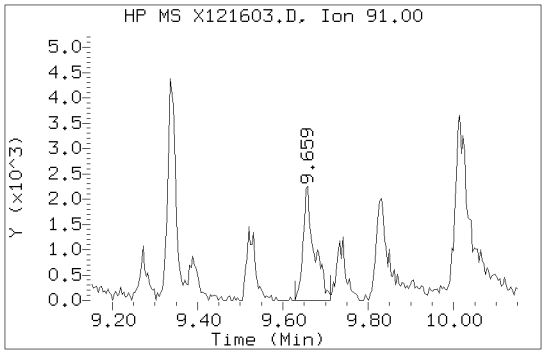
BEFORE

MASS
91
AREA
4191
HEIGHT
2256
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
4191
HEIGHT
2256
27-Dec-2022
16:07
linh
pham

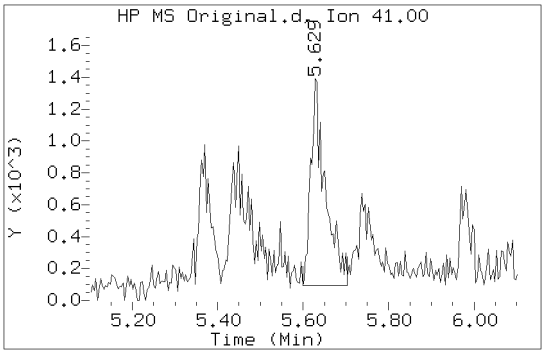


Methyl Methacrylate (80-62-6)

Reason Code:

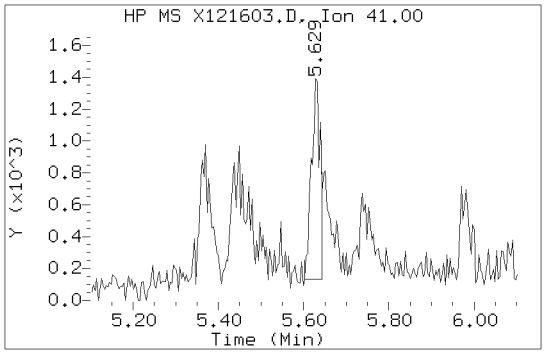
BEFORE

MASS
41
AREA
3067
HEIGHT
1299
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
1788
HEIGHT
1257
27-Dec-2022
16:07
linh
pham

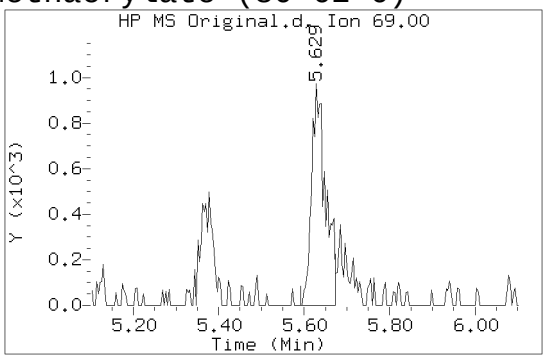


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

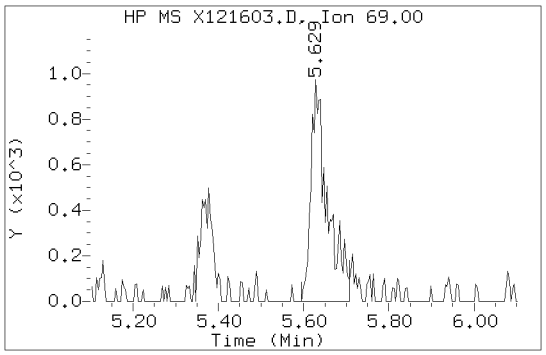
Methyl Methacrylate (80-62-6)

Reason Code:

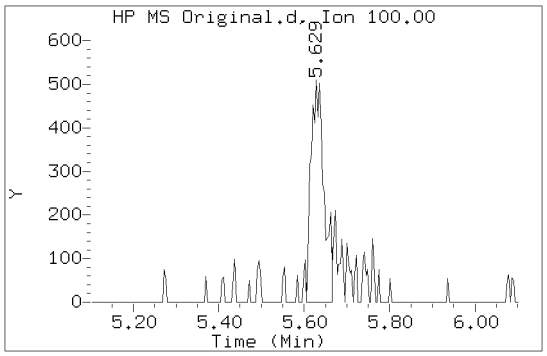
BEFORE
MASS
69
AREA
2216
HEIGHT
973
27-Dec-2022
16:03
linh
pham



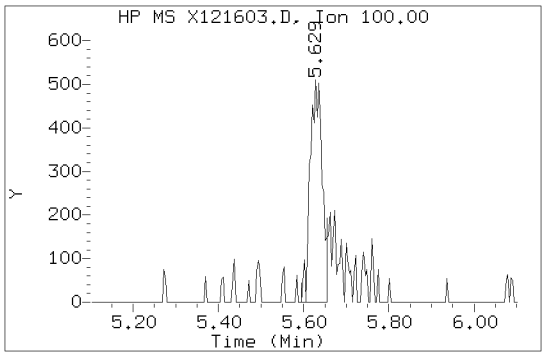
AFTER
MASS
69
AREA
2595
HEIGHT
973
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
100
AREA
1074
HEIGHT
510
27-Dec-2022
16:03
linh
pham



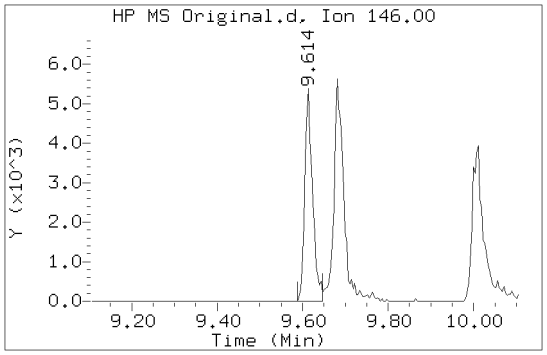
AFTER
MASS
100
AREA
1011
HEIGHT
510
27-Dec-2022
16:07
linh
pham



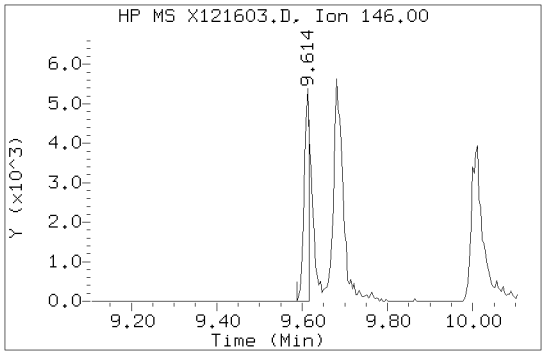
1,3-Dichlorobenzene (541-73-1)

Reason Code:

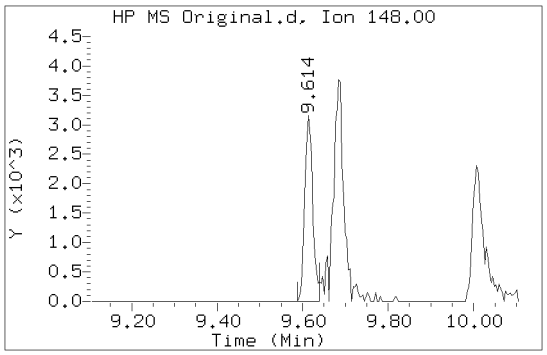
BEFORE
MASS
146
AREA
6964
HEIGHT
5387
27-Dec-2022
16:03
linh
pham



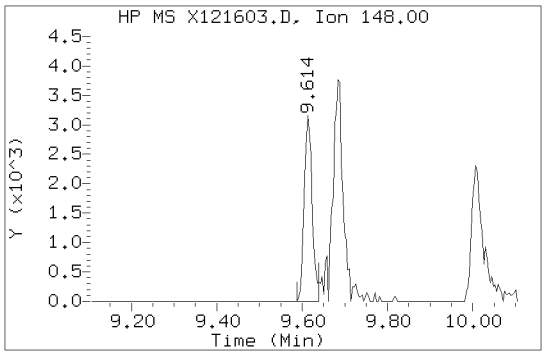
AFTER
MASS
146
AREA
4677
HEIGHT
5387
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
148
AREA
4216
HEIGHT
3157
27-Dec-2022
16:03
linh
pham



AFTER
MASS
148
AREA
4216
HEIGHT
3157
27-Dec-2022
16:07
linh
pham



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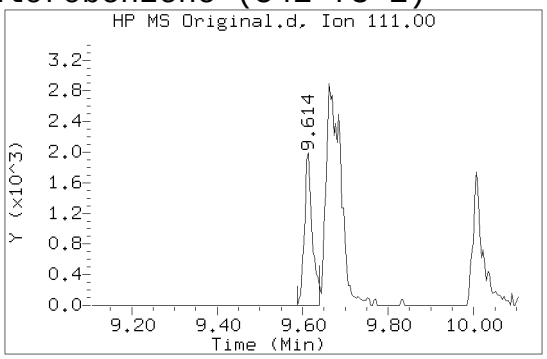
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,3-Dichlorobenzene (541-73-1)

Reason Code:

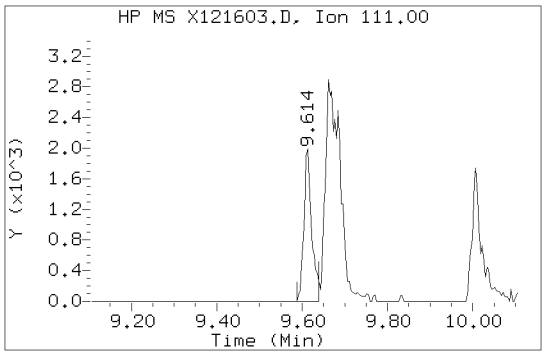
BEFORE

MASS
111
AREA
2596
HEIGHT
1995
27-Dec-2022
16:03
linh
pham



AFTER

MASS
111
AREA
2596
HEIGHT
1995
27-Dec-2022
16:07
linh
pham

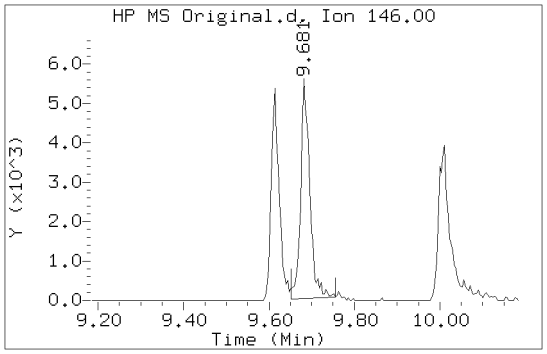


1,4-Dichlorobenzene (106-46-7)

Reason Code:

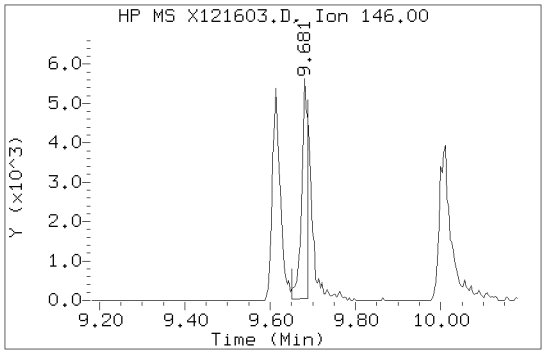
BEFORE

MASS
146
AREA
8510
HEIGHT
5586
27-Dec-2022
16:03
linh
pham



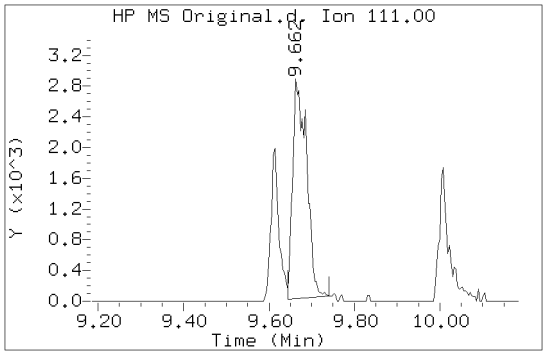
AFTER

MASS
146
AREA
5674
HEIGHT
5587
27-Dec-2022
16:07
linh
pham



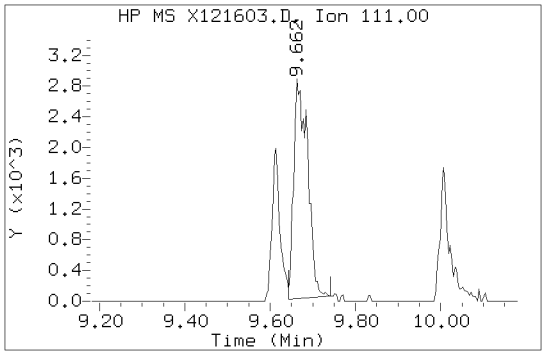
BEFORE

MASS
111
AREA
6571
HEIGHT
2862
27-Dec-2022
16:03
linh
pham



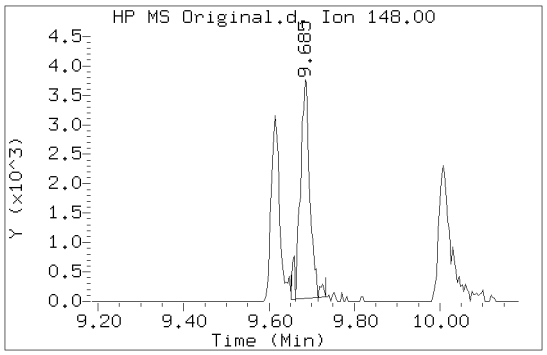
AFTER

MASS
111
AREA
6571
HEIGHT
2862
27-Dec-2022
16:07
linh
pham



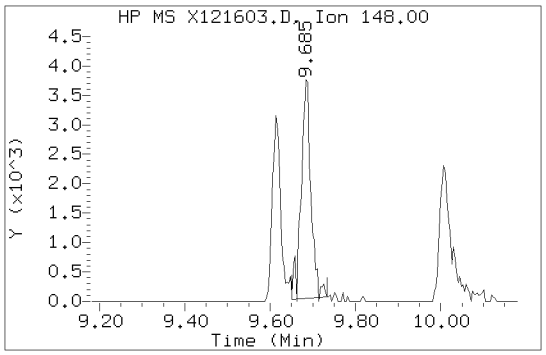
BEFORE

MASS
148
AREA
6083
HEIGHT
3714
27-Dec-2022
16:03
linh
pham



AFTER

MASS
148
AREA
6083
HEIGHT
3714
27-Dec-2022
16:07
linh
pham



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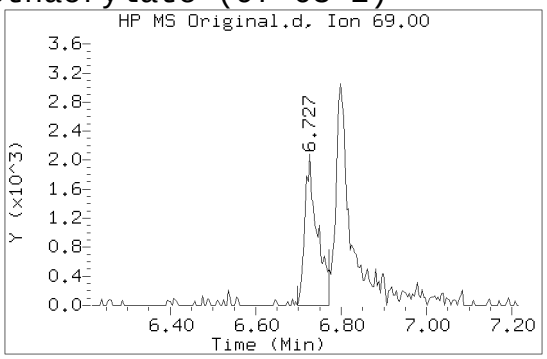
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

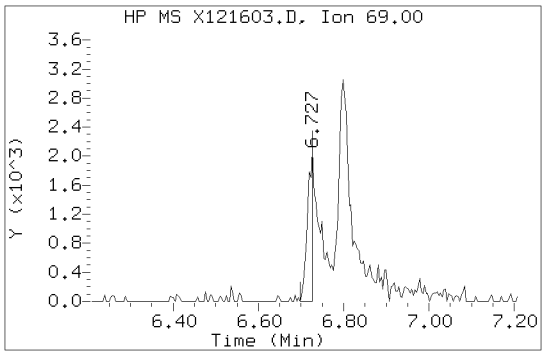
BEFORE

MASS
69
AREA
4283
HEIGHT
2083
27-Dec-2022
16:03
linh
pham



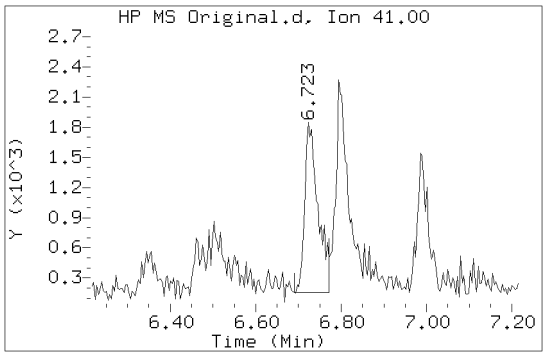
AFTER

MASS
69
AREA
1935
HEIGHT
2083
27-Dec-2022
16:07
linh
pham



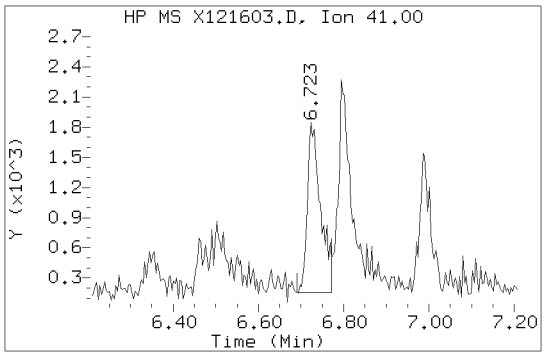
BEFORE

MASS
41
AREA
3701
HEIGHT
1688
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
3701
HEIGHT
1688
27-Dec-2022
16:07
linh
pham

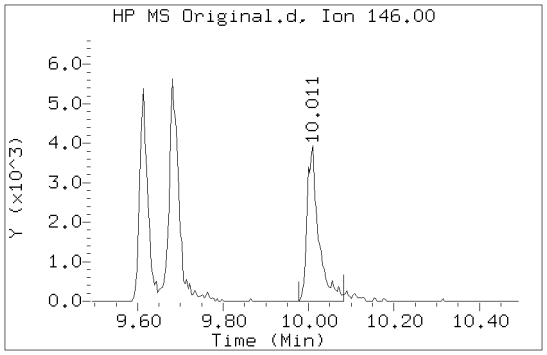


1,2-Dichlorobenzene (95-50-1)

Reason Code:

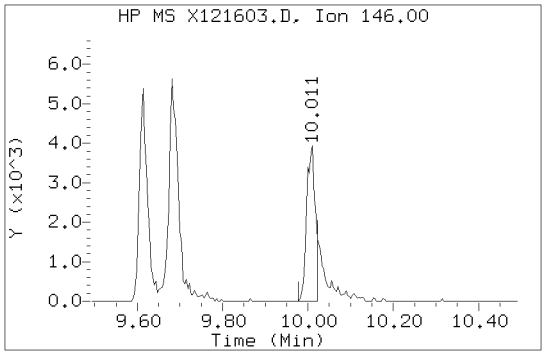
BEFORE

MASS
146
AREA
7400
HEIGHT
3934
27-Dec-2022
16:03
linh
pham



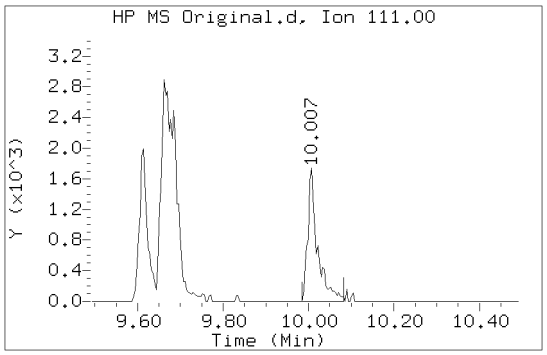
AFTER

MASS
146
AREA
5504
HEIGHT
3934
27-Dec-2022
16:07
linh
pham



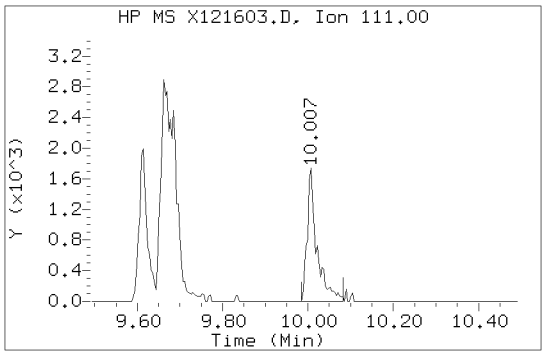
BEFORE

MASS
111
AREA
2768
HEIGHT
1741
27-Dec-2022
16:03
linh
pham



AFTER

MASS
111
AREA
2768
HEIGHT
1741
27-Dec-2022
16:07
linh
pham



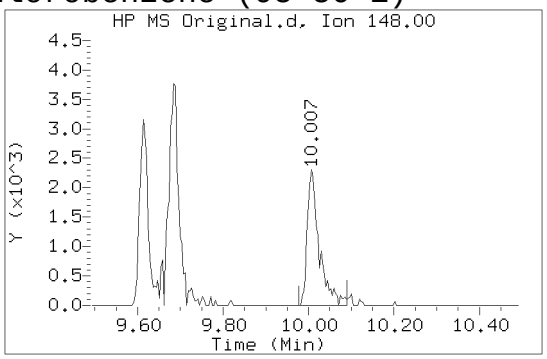
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichlorobenzene (95-50-1)

Reason Code:

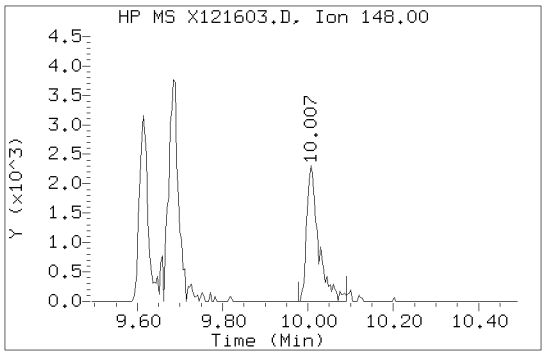
BEFORE

MASS
148
AREA
4515
HEIGHT
2306
27-Dec-2022
16:03
linh
pham



AFTER

MASS
148
AREA
4515
HEIGHT
2306
27-Dec-2022
16:07
linh
pham

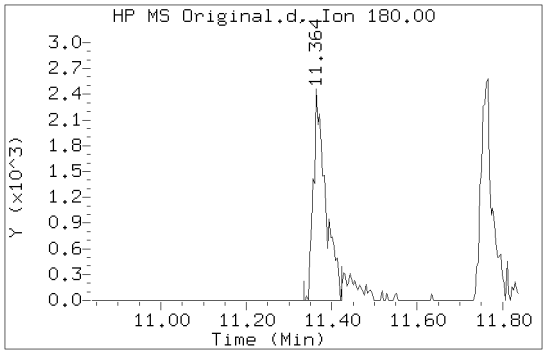


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

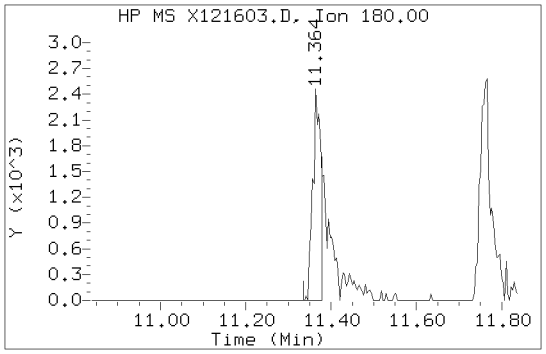
BEFORE

MASS
180
AREA
4912
HEIGHT
2459
27-Dec-2022
16:03
linh
pham



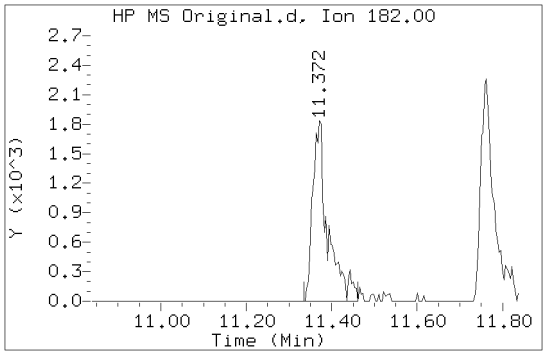
AFTER

MASS
180
AREA
3187
HEIGHT
2459
27-Dec-2022
16:07
linh
pham



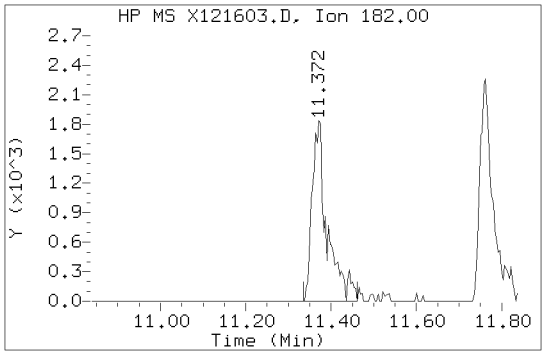
BEFORE

MASS
182
AREA
4514
HEIGHT
1835
27-Dec-2022
16:03
linh
pham



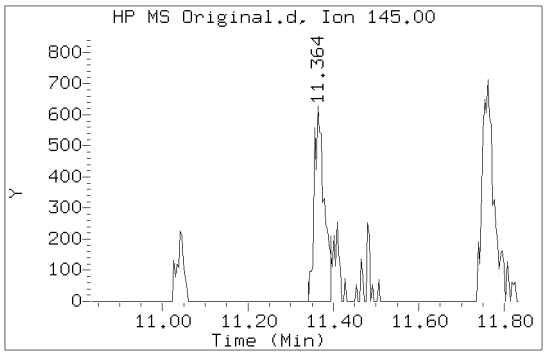
AFTER

MASS
182
AREA
4514
HEIGHT
1835
27-Dec-2022
16:07
linh
pham



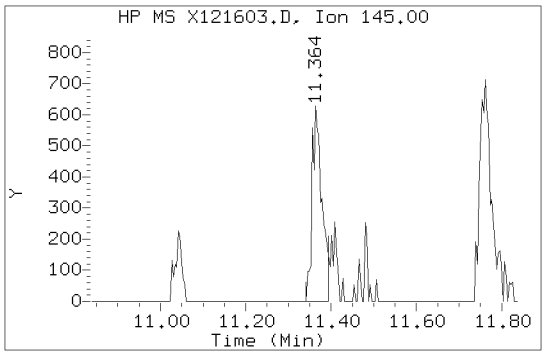
BEFORE

MASS
145
AREA
1003
HEIGHT
629
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
1003
HEIGHT
629
27-Dec-2022
16:07
linh
pham



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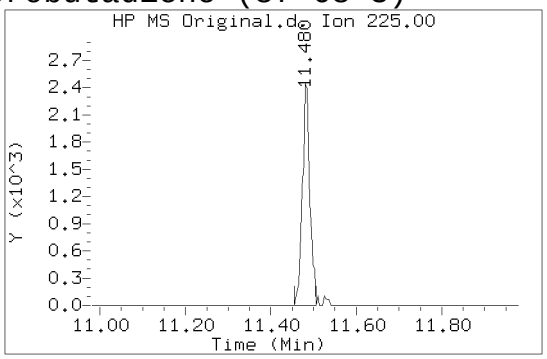
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

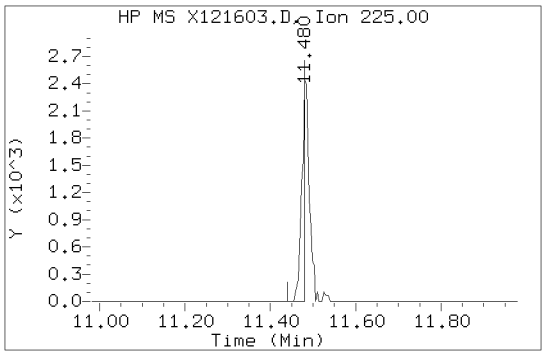
Hexachlorobutadiene (87-68-3)

Reason Code:

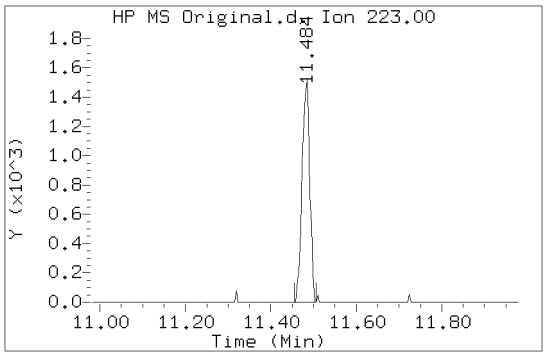
BEFORE
MASS
225
AREA
3038
HEIGHT
2444
27-Dec-2022
16:03
linh
pham



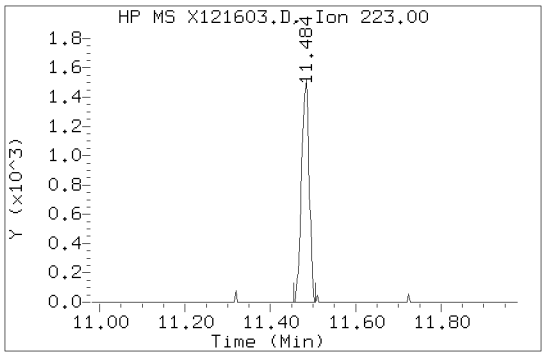
AFTER
MASS
225
AREA
1477
HEIGHT
2444
27-Dec-2022
16:07
linh
pham



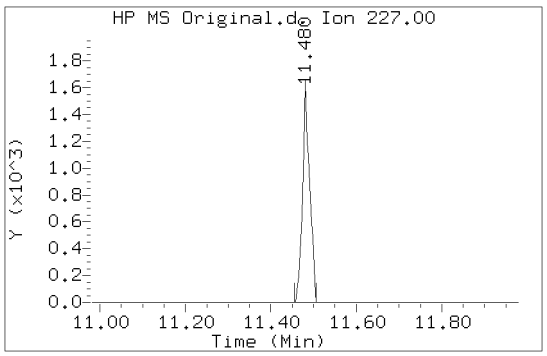
BEFORE
MASS
223
AREA
1952
HEIGHT
1518
27-Dec-2022
16:03
linh
pham



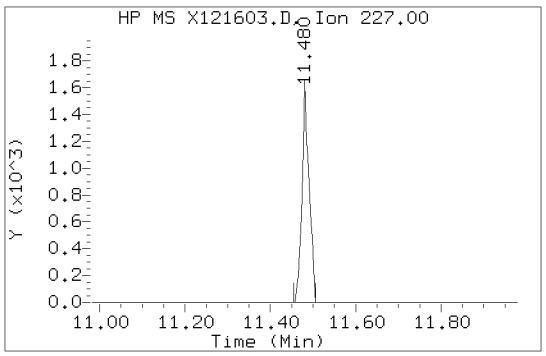
AFTER
MASS
223
AREA
1952
HEIGHT
1518
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
227
AREA
1938
HEIGHT
1652
27-Dec-2022
16:03
linh
pham



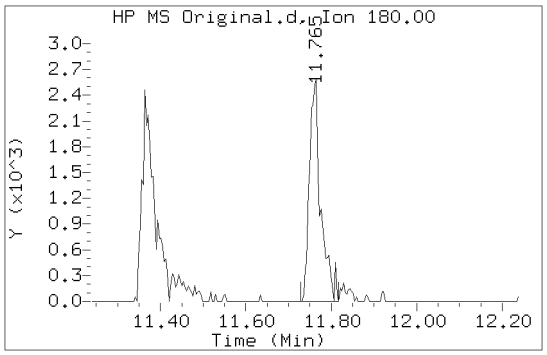
AFTER
MASS
227
AREA
1938
HEIGHT
1652
27-Dec-2022
16:07
linh
pham



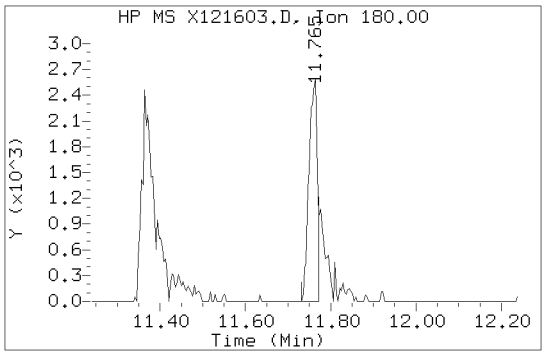
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
180
AREA
4741
HEIGHT
2580
27-Dec-2022
16:03
linh
pham



AFTER
MASS
180
AREA
3572
HEIGHT
2580
27-Dec-2022
16:07
linh
pham



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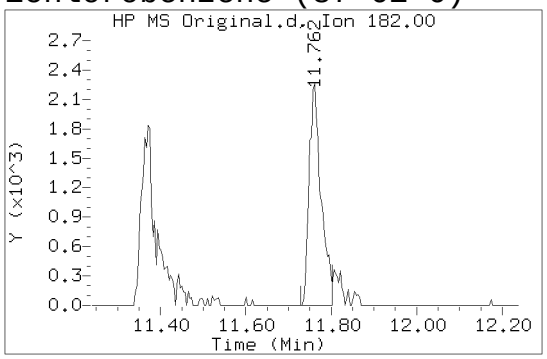
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

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

Reason Code:

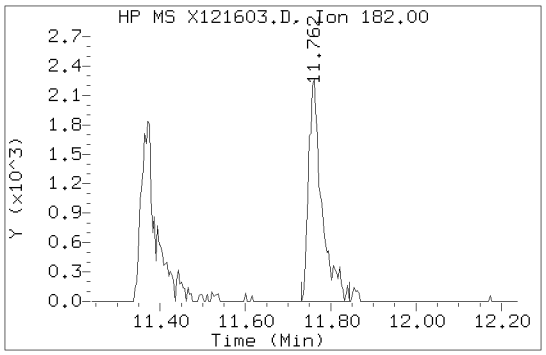
BEFORE

MASS
182
AREA
4404
HEIGHT
2261
27-Dec-2022
16:03
linh
pham



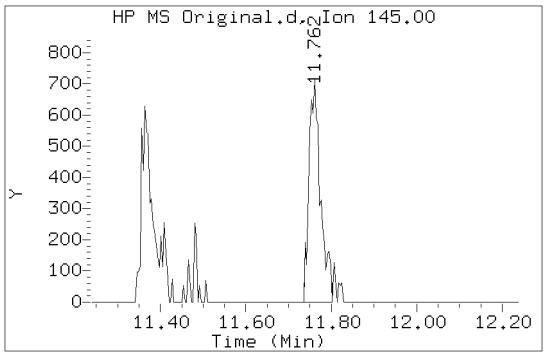
AFTER

MASS
182
AREA
4881
HEIGHT
2261
27-Dec-2022
16:07
linh
pham



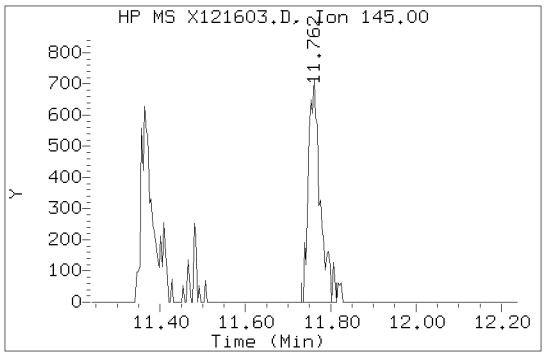
BEFORE

MASS
145
AREA
1338
HEIGHT
713
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
1384
HEIGHT
713
27-Dec-2022
16:07
linh
pham

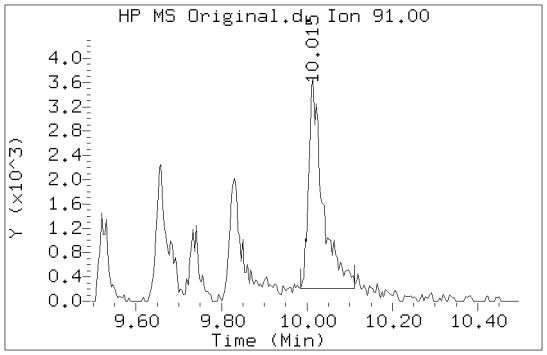


n-Butylbenzene (104-51-8)

Reason Code:

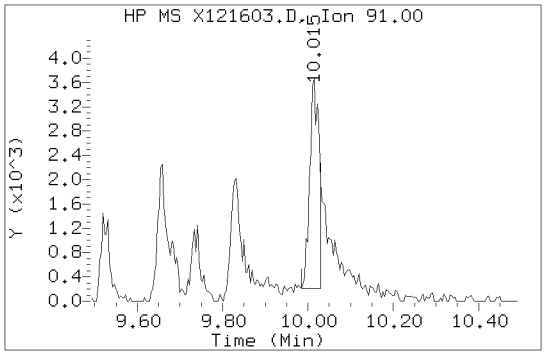
BEFORE

MASS
91
AREA
8005
HEIGHT
3451
27-Dec-2022
16:03
linh
pham



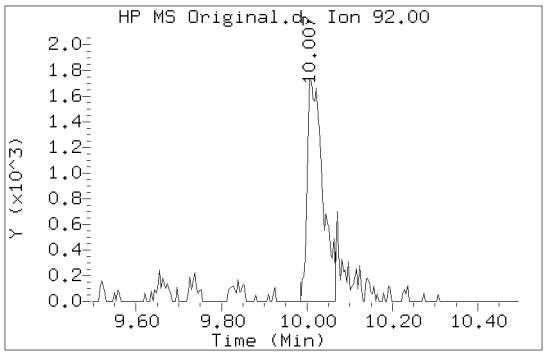
AFTER

MASS
91
AREA
5149
HEIGHT
3451
27-Dec-2022
16:07
linh
pham



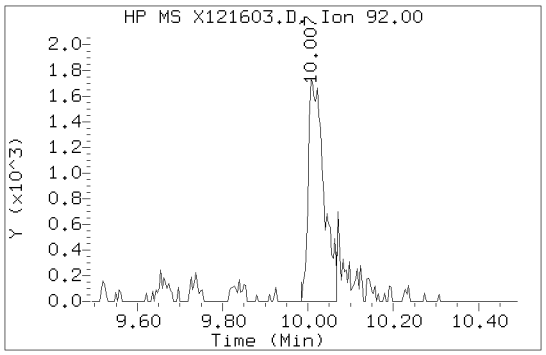
BEFORE

MASS
92
AREA
4404
HEIGHT
1727
27-Dec-2022
16:03
linh
pham



AFTER

MASS
92
AREA
4404
HEIGHT
1727
27-Dec-2022
16:07
linh
pham



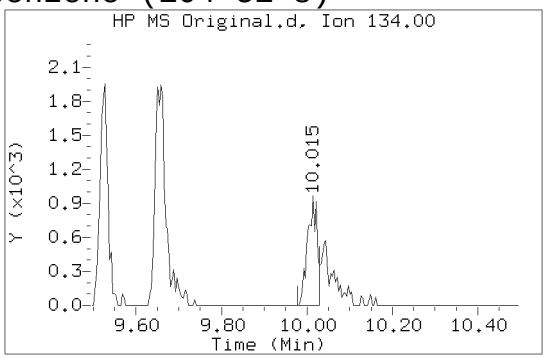
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butylbenzene (104-51-8)

Reason Code:

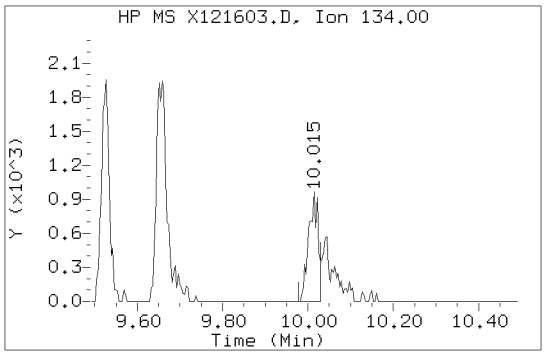
BEFORE

MASS
134
AREA
1502
HEIGHT
969
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
1502
HEIGHT
969
27-Dec-2022
16:07
linh
pham

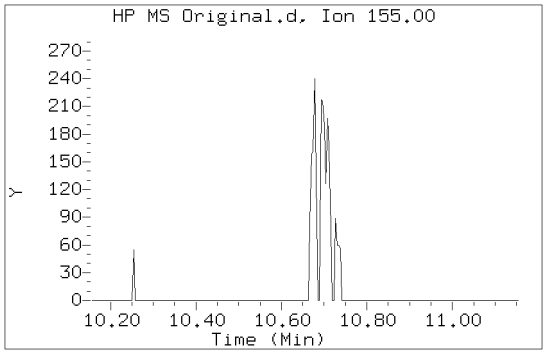


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

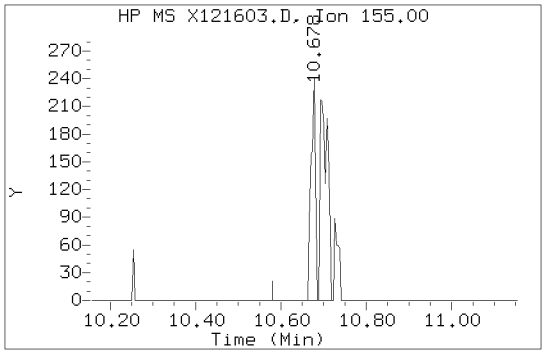
BEFORE

MASS
155
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



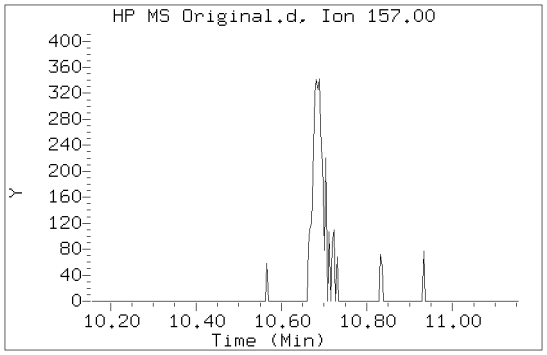
AFTER

MASS
155
AREA
441
HEIGHT
240
27-Dec-2022
16:07
linh
pham



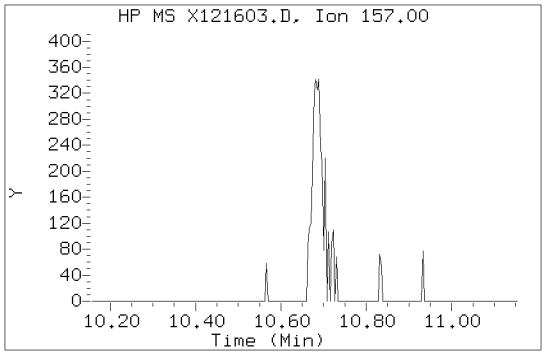
BEFORE

MASS
157
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



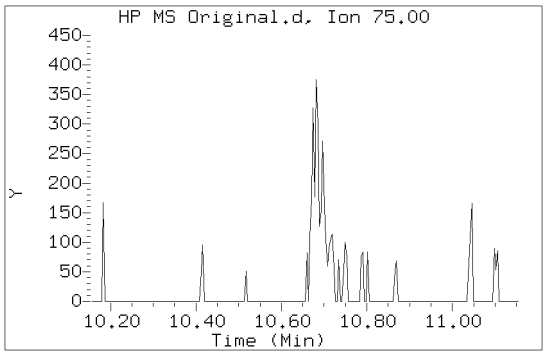
AFTER

MASS
157
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



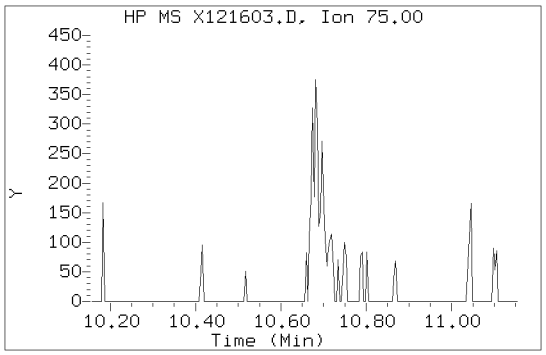
BEFORE

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

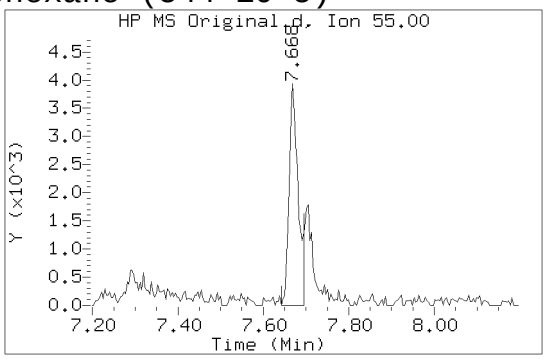


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

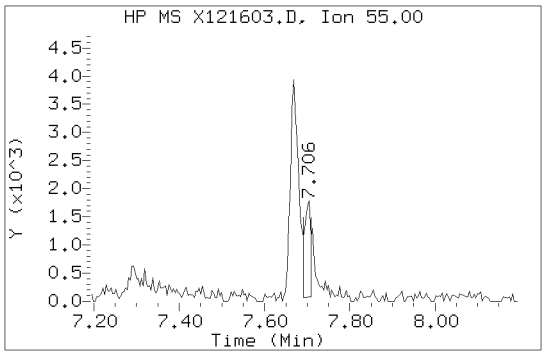
1-Chlorohexane (544-10-5)

Reason Code:

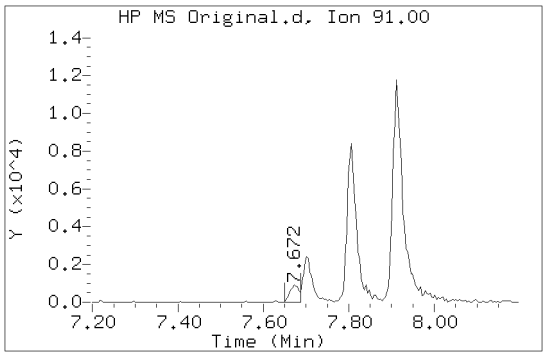
BEFORE
MASS
55
AREA
5785
HEIGHT
3936
27-Dec-2022
16:03
linh
pham



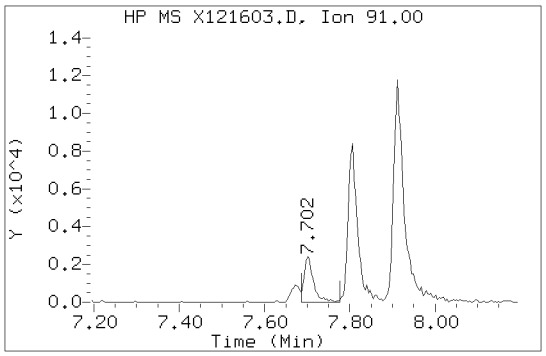
AFTER
MASS
55
AREA
1829
HEIGHT
1707
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
91
AREA
1355
HEIGHT
933
27-Dec-2022
16:03
linh
pham



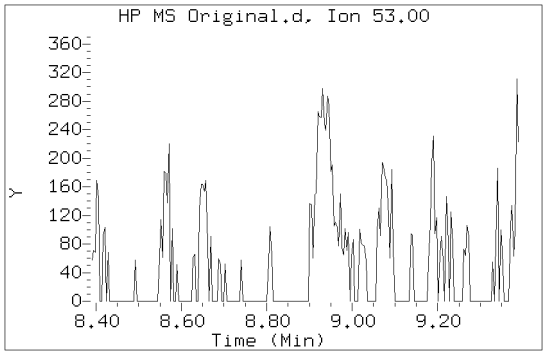
AFTER
MASS
91
AREA
3802
HEIGHT
2430
27-Dec-2022
16:07
linh
pham



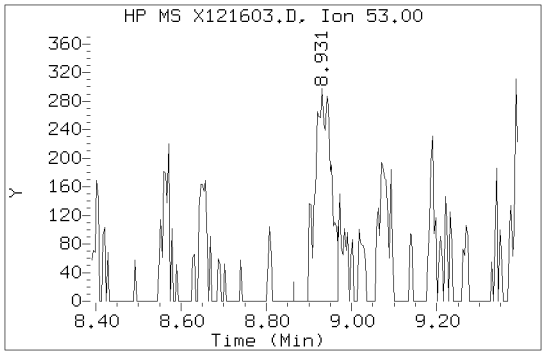
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

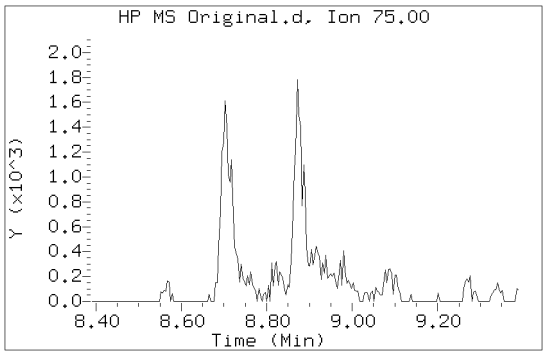
BEFORE
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



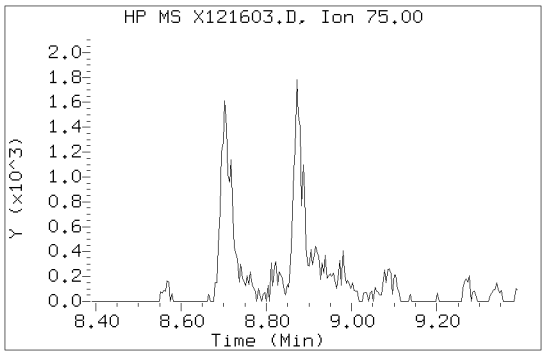
AFTER
MASS
53
AREA
792
HEIGHT
298
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

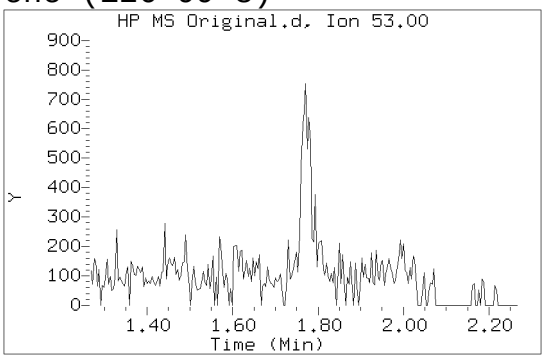


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

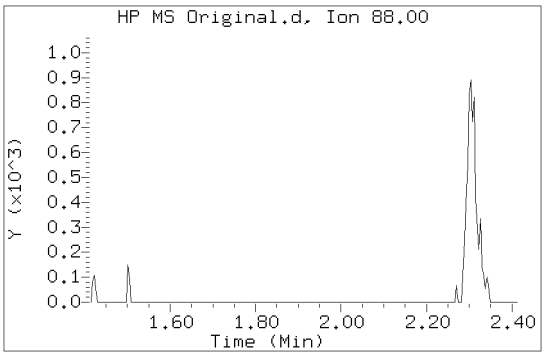
BEFORE

MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

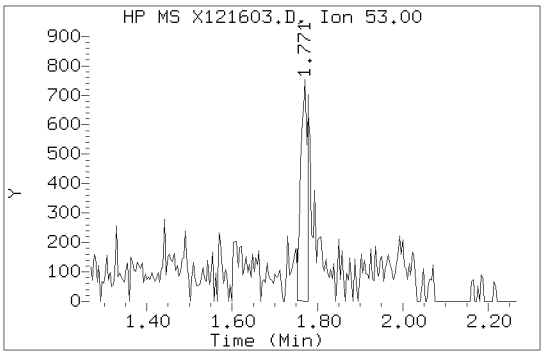
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

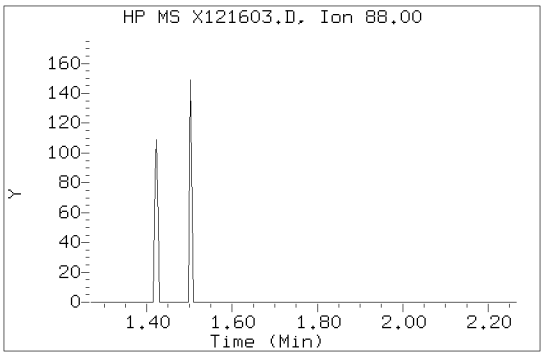
AFTER

MASS
53
AREA
900
HEIGHT
751
27-Dec-2022
16:07
linh
pham



AFTER

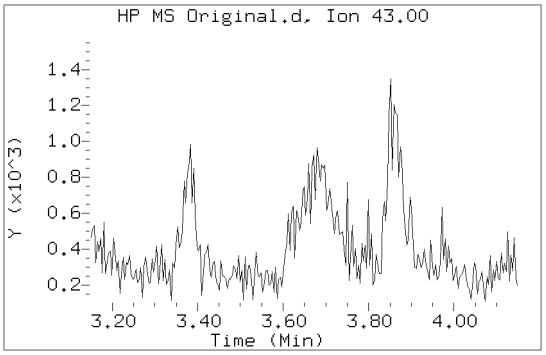
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Ethyl Acetate (141-78-6)

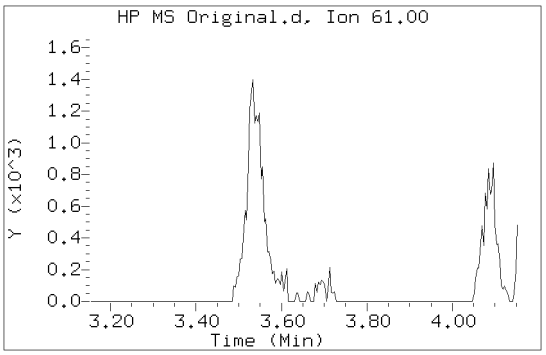
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

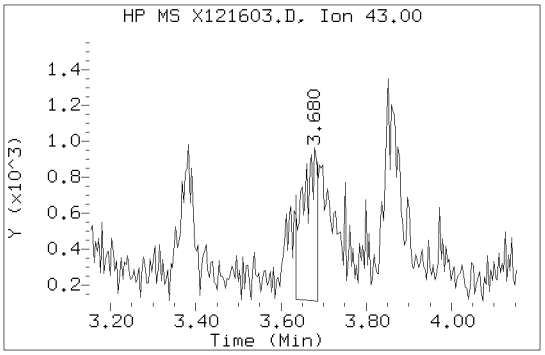
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

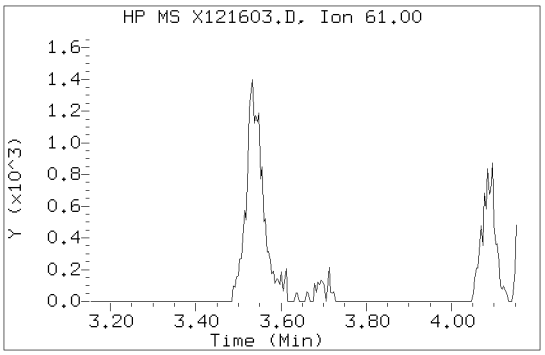
AFTER

MASS
43
AREA
2065
HEIGHT
853
27-Dec-2022
16:07
linh
pham



AFTER

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



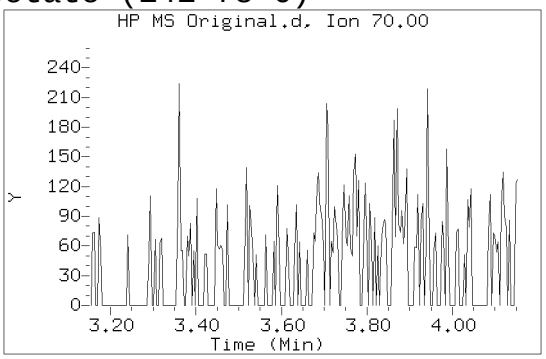
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acetate (141-78-6)

Reason Code:

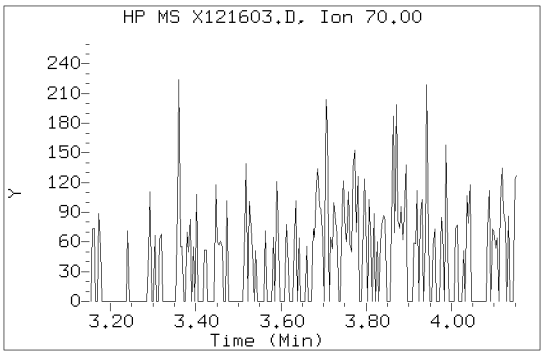
BEFORE

MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

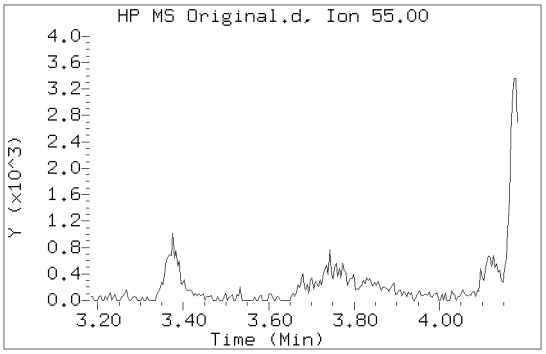


Methyl Acrylate (96-33-3)

Reason Code:

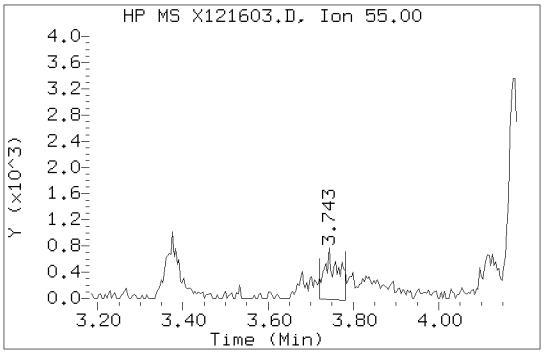
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



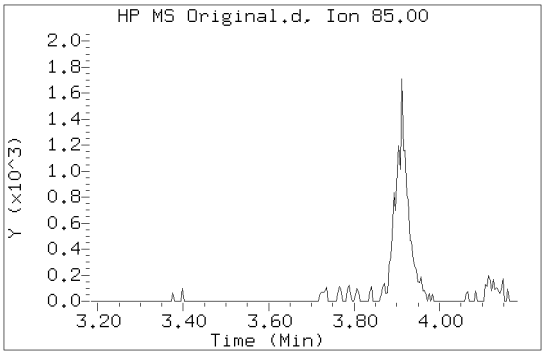
AFTER

MASS
55
AREA
1765
HEIGHT
787
27-Dec-2022
16:07
linh
pham



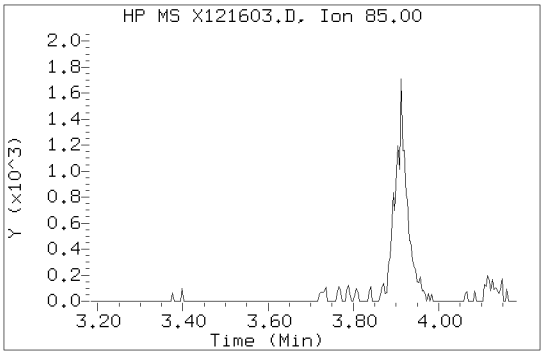
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

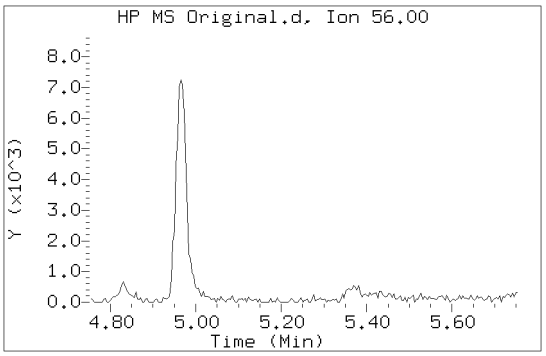


n-Butanol (71-36-3)

Reason Code:

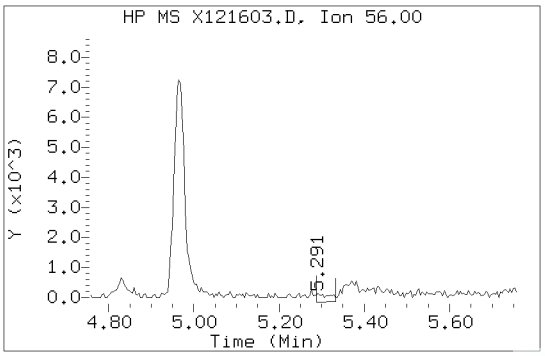
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
56
AREA
622
HEIGHT
300
27-Dec-2022
16:07
linh
pham



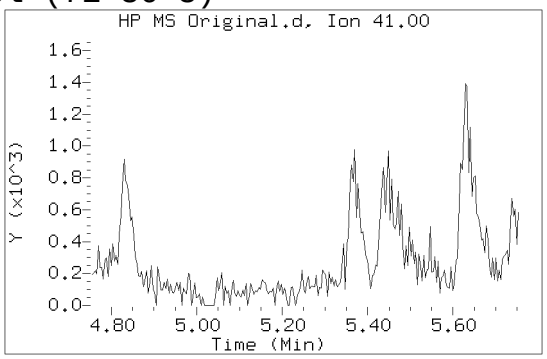
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butanol (71-36-3)

Reason Code:

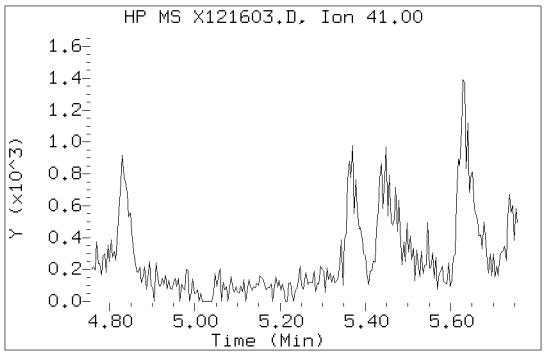
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

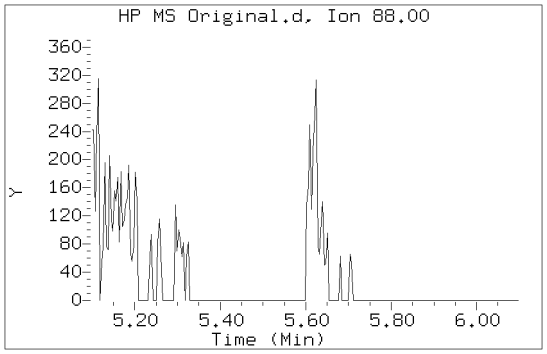


1,4-Dioxane ()

Reason Code:

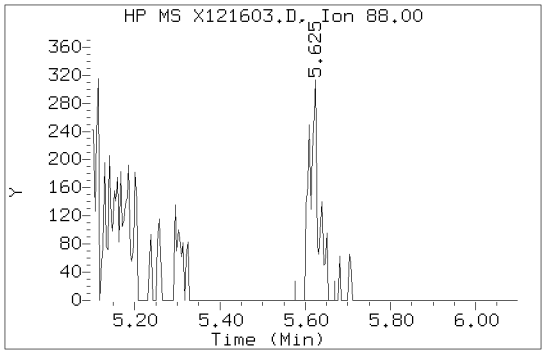
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



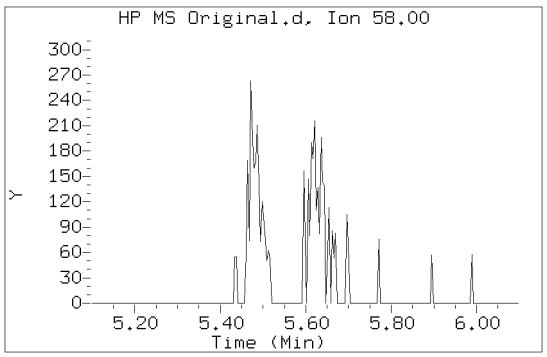
AFTER

MASS
88
AREA
462
HEIGHT
313
27-Dec-2022
16:07
linh
pham



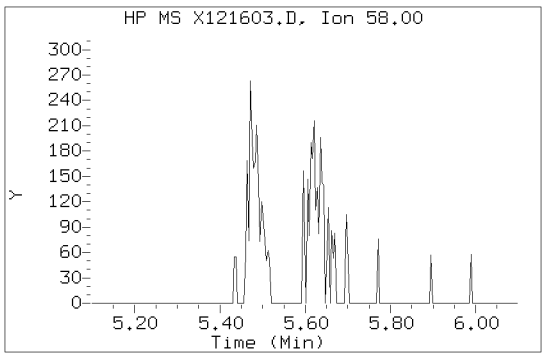
BEFORE

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

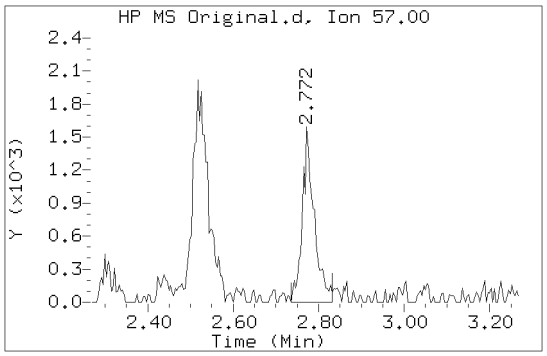


n-Hexane (110-54-3)

Reason Code:

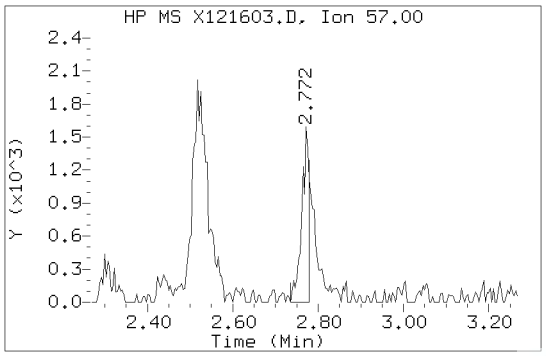
BEFORE

MASS
57
AREA
3089
HEIGHT
1591
27-Dec-2022
16:03
linh
pham



AFTER

MASS
57
AREA
1909
HEIGHT
1591
27-Dec-2022
16:07
linh
pham



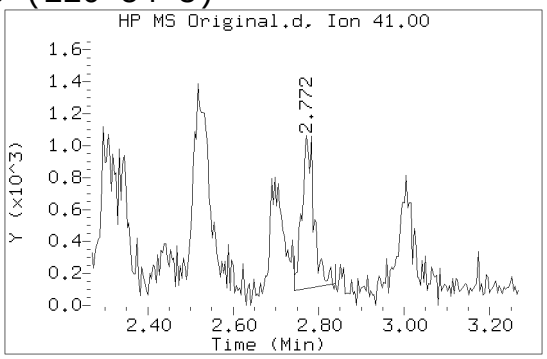
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

n-Hexane (110-54-3)

Reason Code:

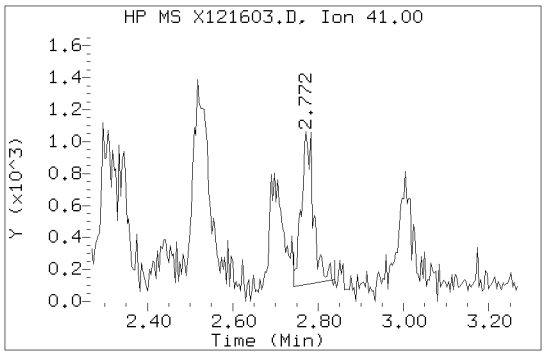
BEFORE

MASS
41
AREA
1918
HEIGHT
958
27-Dec-2022
16:03
linh
pham



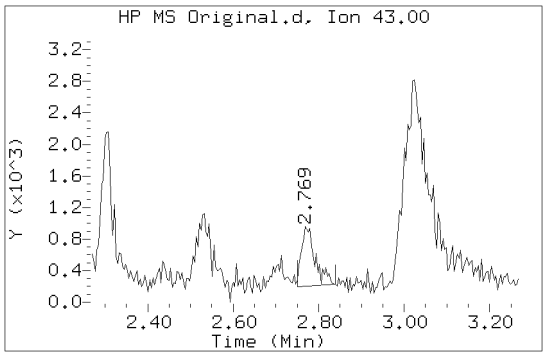
AFTER

MASS
41
AREA
1918
HEIGHT
958
27-Dec-2022
16:07
linh
pham



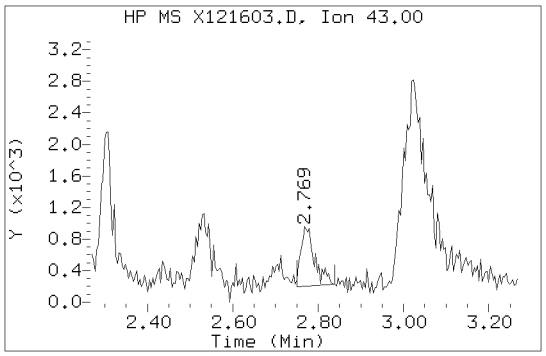
BEFORE

MASS
43
AREA
1726
HEIGHT
759
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
1726
HEIGHT
759
27-Dec-2022
16:07
linh
pham

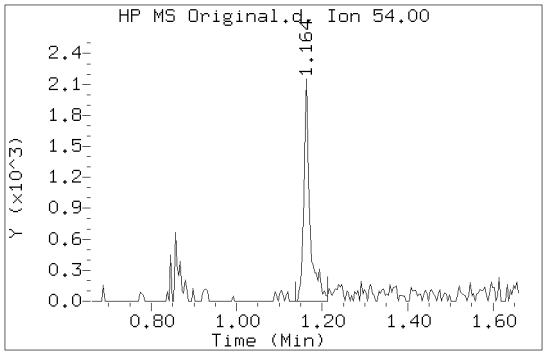


1,3-Butadiene (106-99-0)

Reason Code:

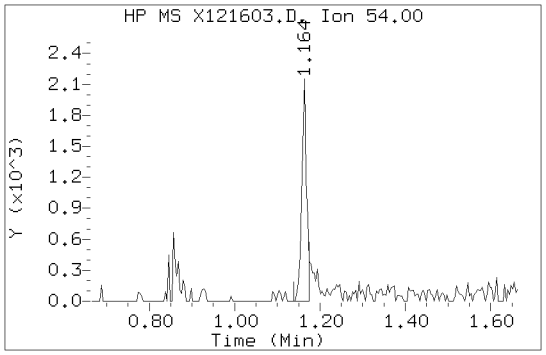
BEFORE

MASS
54
AREA
2206
HEIGHT
2153
27-Dec-2022
16:03
linh
pham



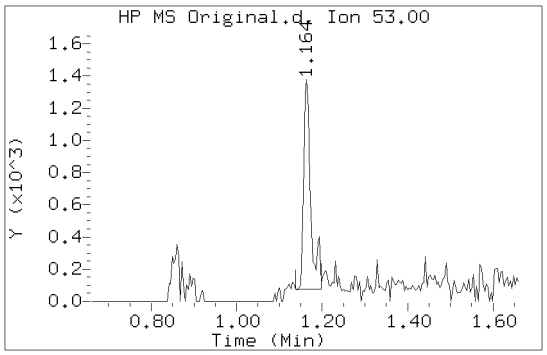
AFTER

MASS
54
AREA
1793
HEIGHT
2153
27-Dec-2022
16:07
linh
pham



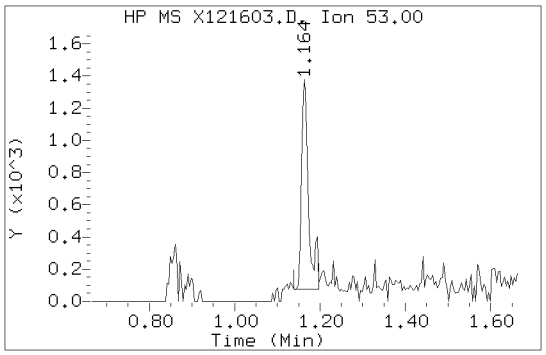
BEFORE

MASS
53
AREA
1535
HEIGHT
1301
27-Dec-2022
16:03
linh
pham



AFTER

MASS
53
AREA
1535
HEIGHT
1301
27-Dec-2022
16:07
linh
pham



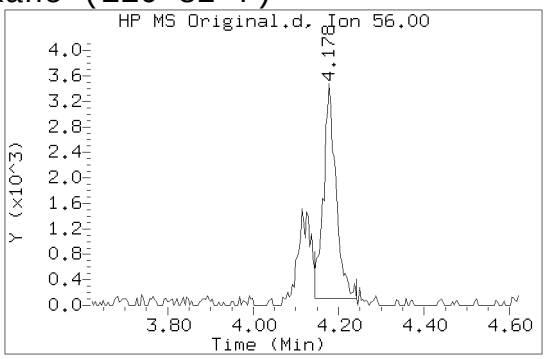
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexane (110-82-7)

Reason Code:

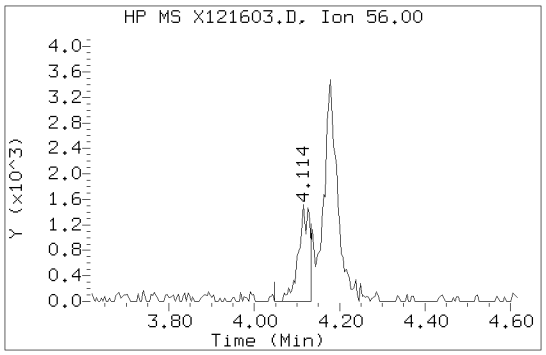
BEFORE

MASS
56
AREA
6884
HEIGHT
3363
27-Dec-2022
16:03
linh
pham



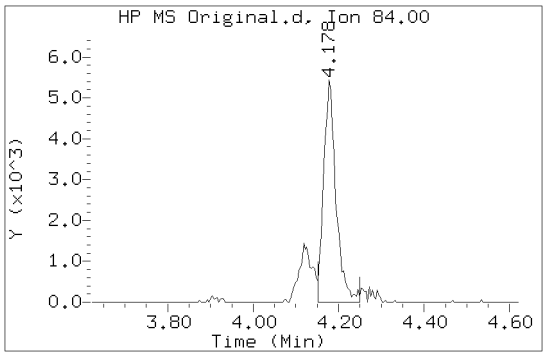
AFTER

MASS
56
AREA
2803
HEIGHT
1514
27-Dec-2022
16:07
linh
pham



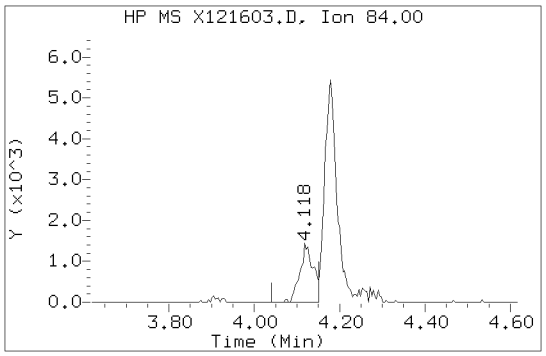
BEFORE

MASS
84
AREA
10951
HEIGHT
5440
27-Dec-2022
16:03
linh
pham



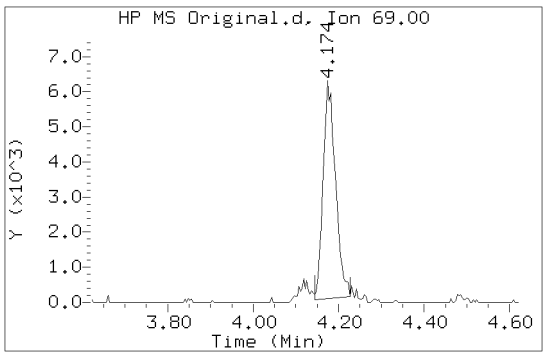
AFTER

MASS
84
AREA
3197
HEIGHT
1443
27-Dec-2022
16:07
linh
pham



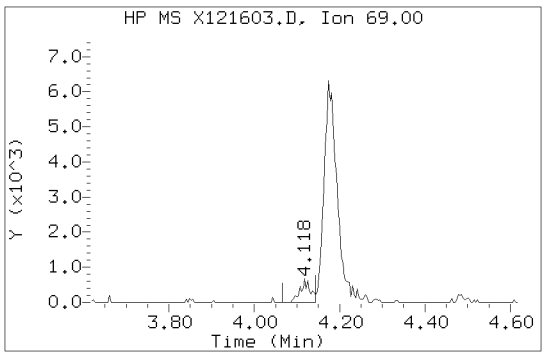
BEFORE

MASS
69
AREA
12449
HEIGHT
6206
27-Dec-2022
16:03
linh
pham



AFTER

MASS
69
AREA
1108
HEIGHT
681
27-Dec-2022
16:07
linh
pham

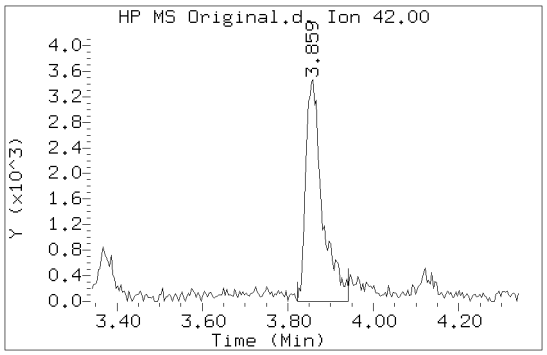


Tetrahydrofuran (109-99-9)

Reason Code:

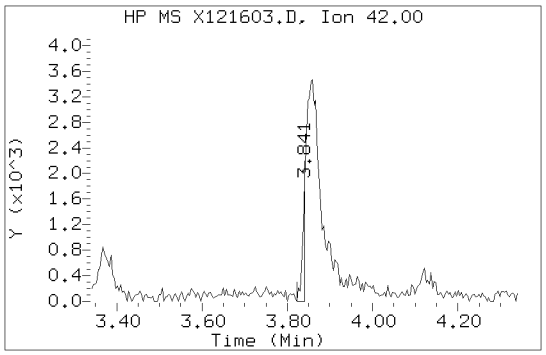
BEFORE

MASS
42
AREA
9468
HEIGHT
3467
27-Dec-2022
16:03
linh
pham



AFTER

MASS
42
AREA
900
HEIGHT
1891
27-Dec-2022
16:07
linh
pham



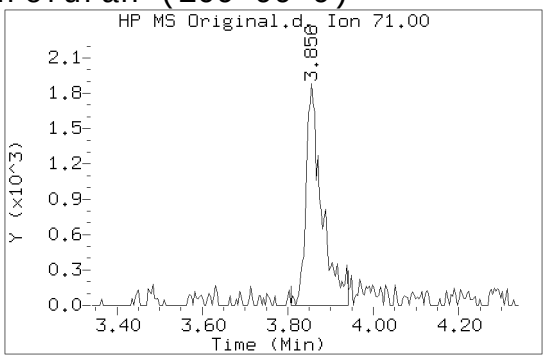
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrahydrofuran (109-99-9)

Reason Code:

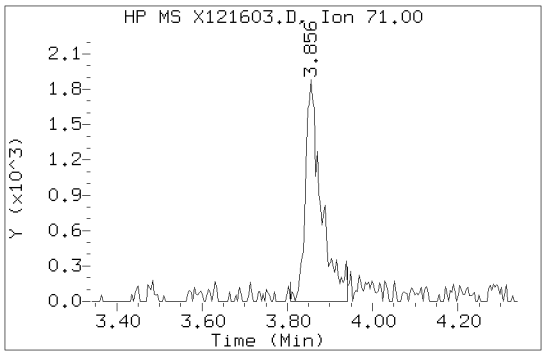
BEFORE

MASS
71
AREA
4885
HEIGHT
1881
27-Dec-2022
16:03
linh
pham



AFTER

MASS
71
AREA
4885
HEIGHT
1881
27-Dec-2022
16:07
linh
pham

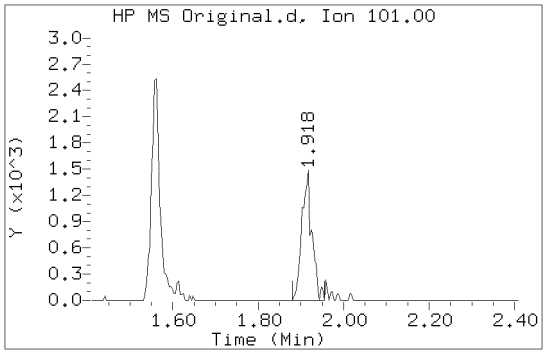


Freon TF (76-13-1)

Reason Code:

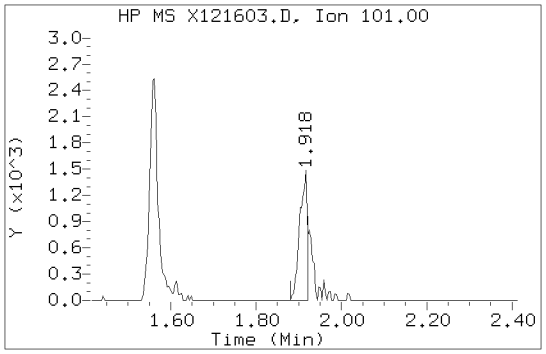
BEFORE

MASS
101
AREA
2478
HEIGHT
1484
27-Dec-2022
16:03
linh
pham



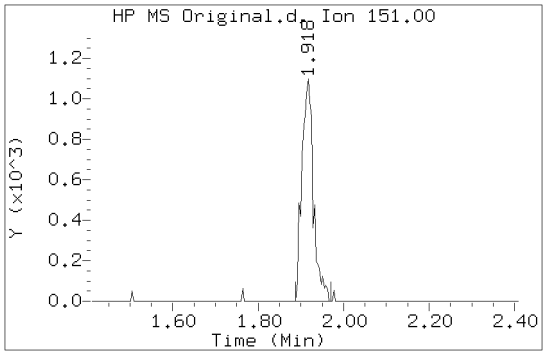
AFTER

MASS
101
AREA
1851
HEIGHT
1484
27-Dec-2022
16:07
linh
pham



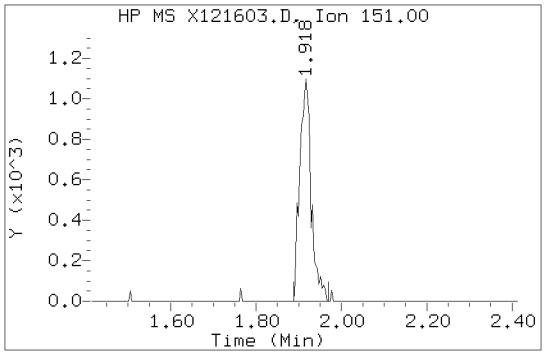
BEFORE

MASS
151
AREA
2095
HEIGHT
1098
27-Dec-2022
16:03
linh
pham



AFTER

MASS
151
AREA
2095
HEIGHT
1098
27-Dec-2022
16:07
linh
pham

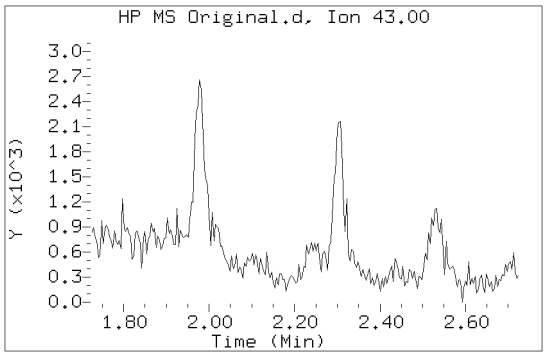


Methyl Acetate (79-20-9)

Reason Code:

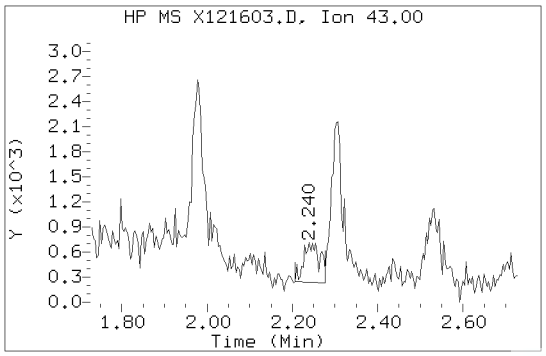
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
1269
HEIGHT
477
27-Dec-2022
16:07
linh
pham

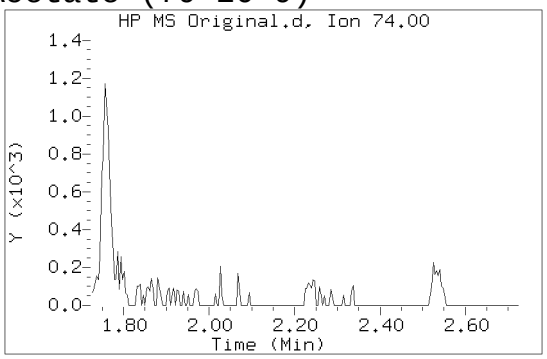


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Acetate (79-20-9)

BEFORE

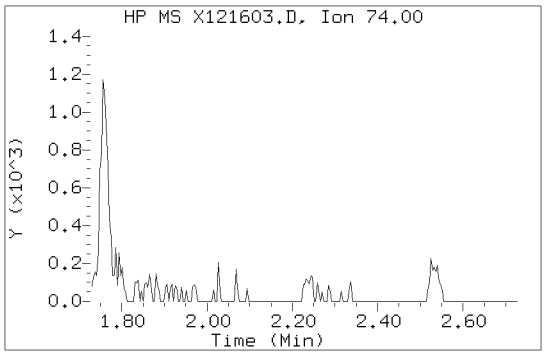
MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

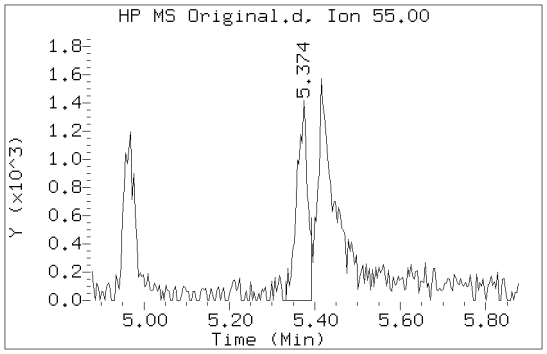
MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Methylcyclohexane (108-87-2)

BEFORE

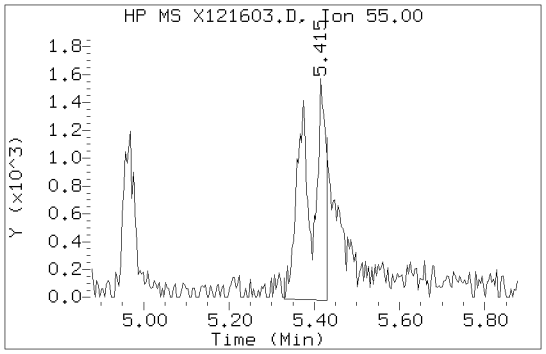
MASS
55
AREA
2505
HEIGHT
1416
27-Dec-2022
16:03
linh
pham



Reason Code:

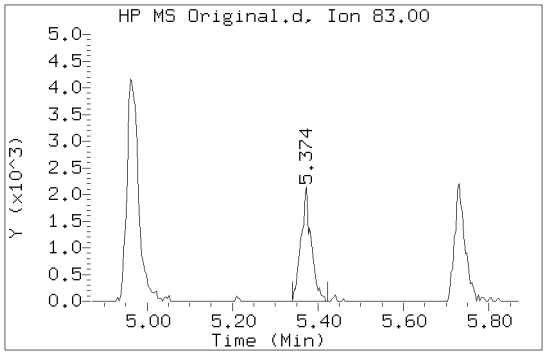
AFTER

MASS
55
AREA
4781
HEIGHT
1590
27-Dec-2022
16:07
linh
pham



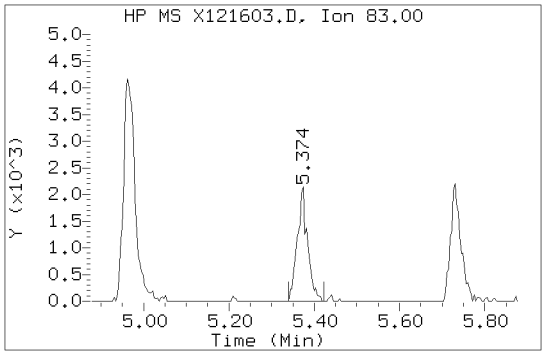
BEFORE

MASS
83
AREA
3627
HEIGHT
2141
27-Dec-2022
16:03
linh
pham



AFTER

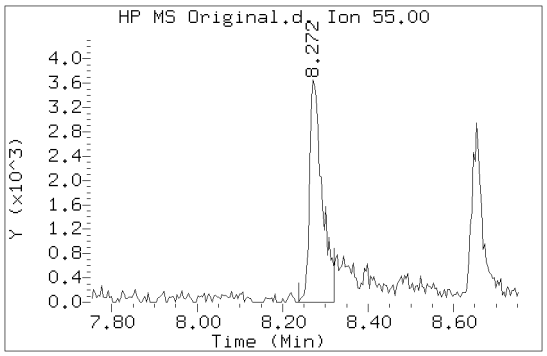
MASS
83
AREA
3627
HEIGHT
2141
27-Dec-2022
16:07
linh
pham



Butyl acrylate (141-32-2)

BEFORE

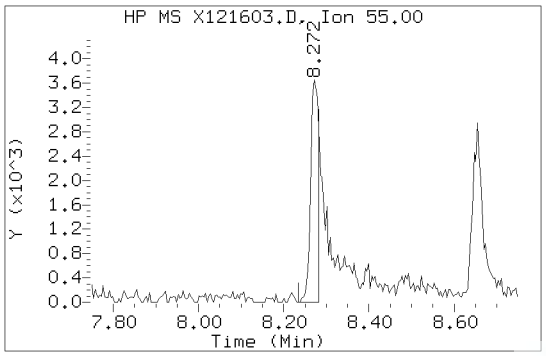
MASS
55
AREA
7480
HEIGHT
3653
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
55
AREA
4718
HEIGHT
3653
27-Dec-2022
16:07
linh
pham

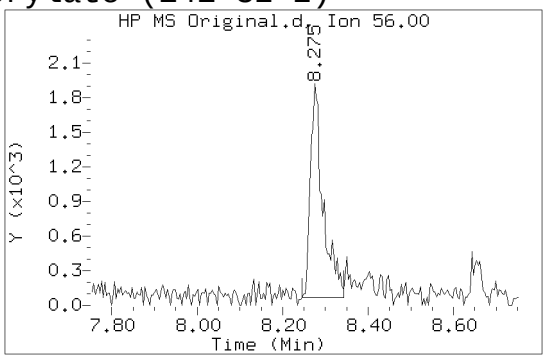


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

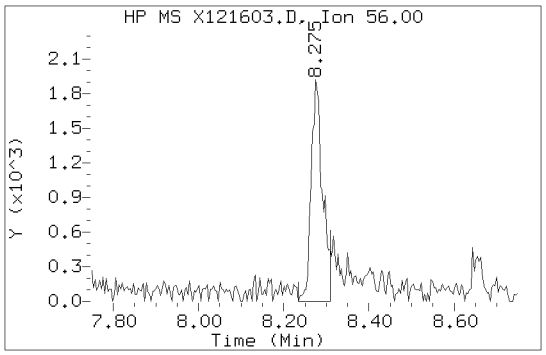
Butyl acrylate (141-32-2)

Reason Code:

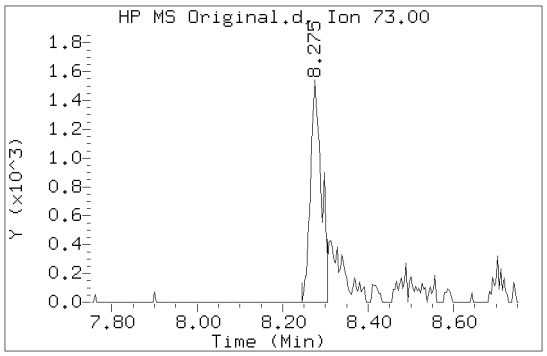
BEFORE
MASS
56
AREA
3795
HEIGHT
1858
27-Dec-2022
16:03
linh
pham



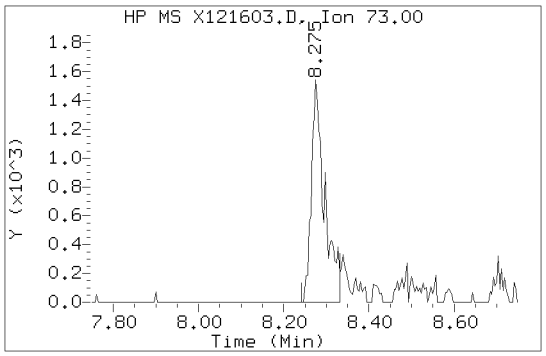
AFTER
MASS
56
AREA
3566
HEIGHT
1923
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
73
AREA
2742
HEIGHT
1542
27-Dec-2022
16:03
linh
pham



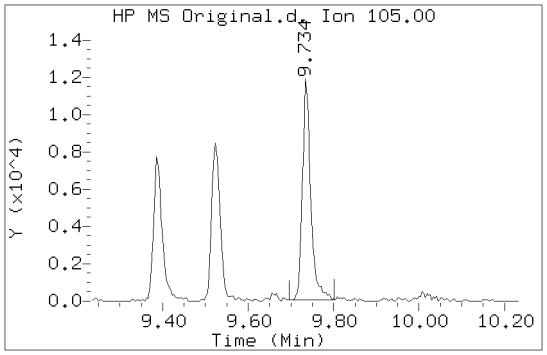
AFTER
MASS
73
AREA
3276
HEIGHT
1542
27-Dec-2022
16:07
linh
pham



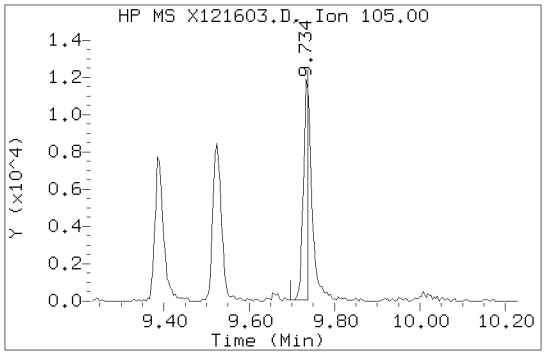
1,2,3-Trimethylbenzene (526-73-8)

Reason Code:

BEFORE
MASS
105
AREA
16642
HEIGHT
11860
27-Dec-2022
16:03
linh
pham



AFTER
MASS
105
AREA
9626
HEIGHT
11860
27-Dec-2022
16:07
linh
pham



Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
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27-Dec-2022
16:03
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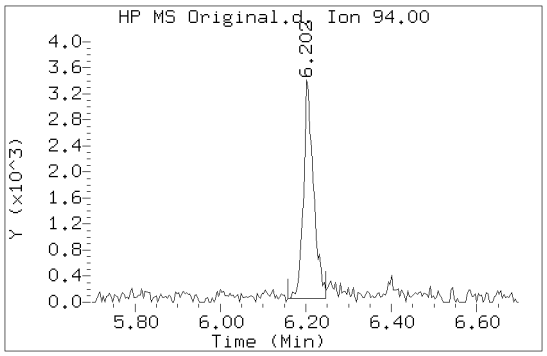
pham



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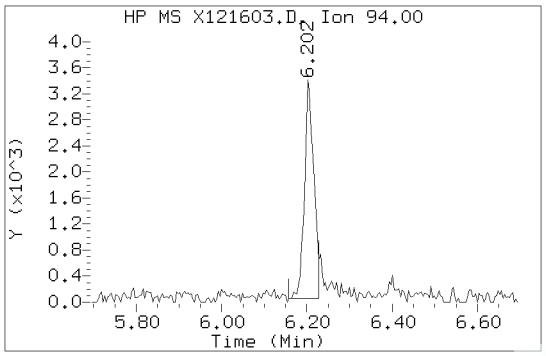

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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Dimethyl Disulfide (624-92-0)

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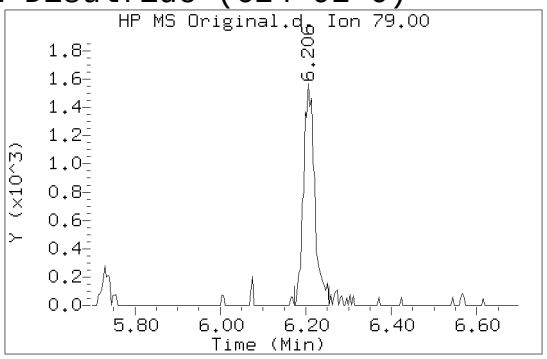

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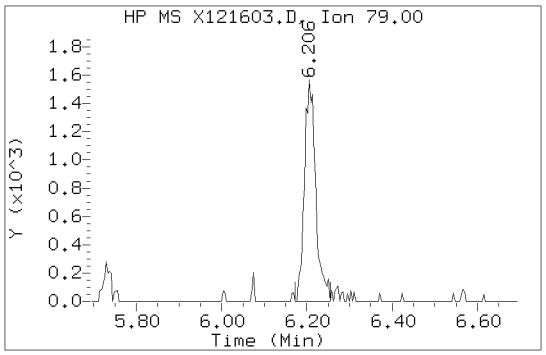

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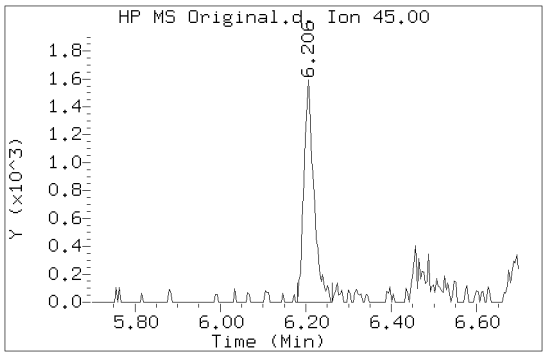

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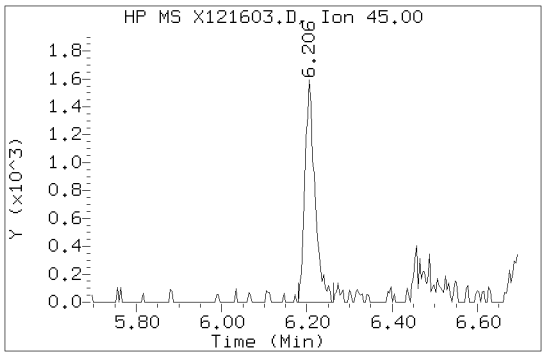

4-Bromofluorobenzene (460-00-4)

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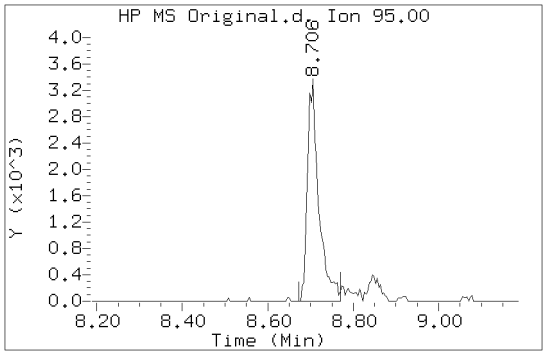

AFTER
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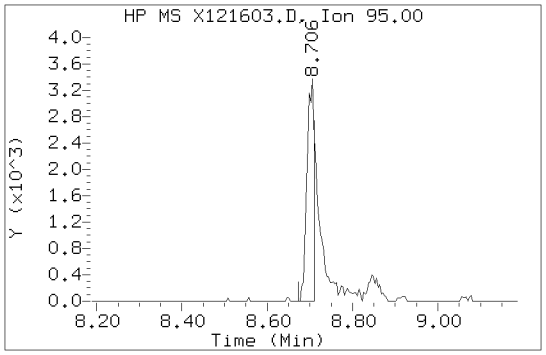

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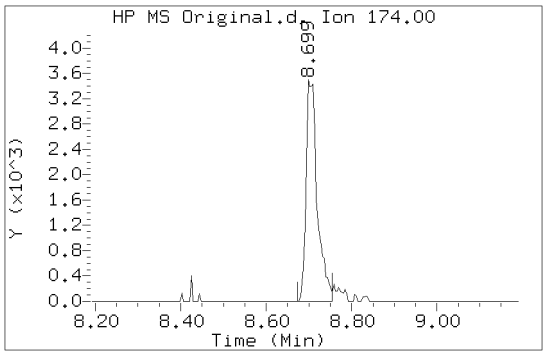

AFTER
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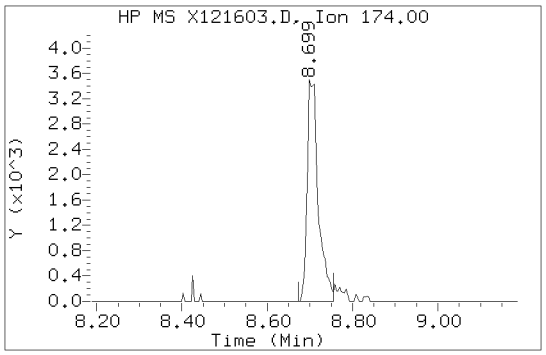

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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

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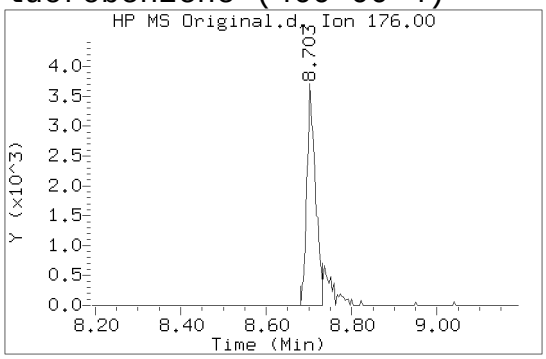

AFTER

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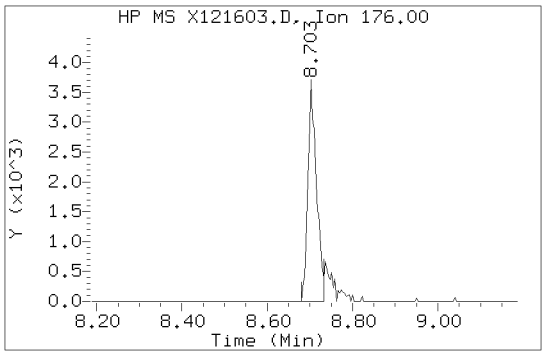

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
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Inj Date : 16-DEC-2022 12:41
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 12:20 Cal File: X121603.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	450308	50.0000	
135 1,4-Dioxane	88	5.610	5.610	(1.343)	820	20.0000	19.92(M)
140 1,3-Butadiene	54	1.160	1.160	(0.278)	3432	1.00000	1.11
25 Methacrylonitrile	41	3.852	3.852	(0.922)	3285	1.00000	1.03(M)
12 Isobutyl Alcohol	43	4.695	4.695	(1.124)	9436	20.0000	18.62(M)
13 Acetonitrile	39	2.198	2.198	(0.526)	4183	10.0000	10.20
14 Allyl Chloride	41	2.202	2.202	(0.527)	8574	1.00000	1.09
4 Propionitrile	54	3.687	3.687	(0.882)	4742	10.0000	10.32(M)
136 n-Hexane	57	2.776	2.776	(0.664)	2343	1.00000	0.72
72 trans-1,4-Dichloro-2-butene	53	8.920	8.920	(1.163)	1196	1.00000	0.85(M)
194 Acetaldehyde	44	1.212	1.212	(0.290)	3384	4.00000	(M)
23 Chloroprene	53	1.767	1.767	(0.423)	1686	1.00000	1.10(M)
145 alpha-Methylstyrene	118	9.272	9.272	(0.960)	6032	1.00000	0.77
200 Dimethyl Disulfide	94	6.206	6.206	(0.809)	8295	1.00000	0.94
139 Diethyl ether	59	1.760	1.760	(0.421)	2983	1.00000	0.99
130 Ethyl Acetate	43	3.675	3.675	(0.880)	3144	1.00000	0.89(M)
40 Methyl Methacrylate	41	5.628	5.628	(1.347)	3145	1.00000	1.02
49 Ethyl Methacrylate	69	6.727	6.727	(1.355)	3303	1.00000	1.02(M)
132 n-Butanol	56	5.239	5.239	(1.254)	1171	20.0000	60.69(M)
142 Tetrahydrofuran	42	3.844	3.844	(0.920)	1361	2.00000	(M)

150	Allyl alcohol	57	2.776	2.776 (0.664)	2343	20.0000	13.39
166	1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	18347	1.00000	1.08

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D Page 2
Report Date: 27-Dec-2022 16:07

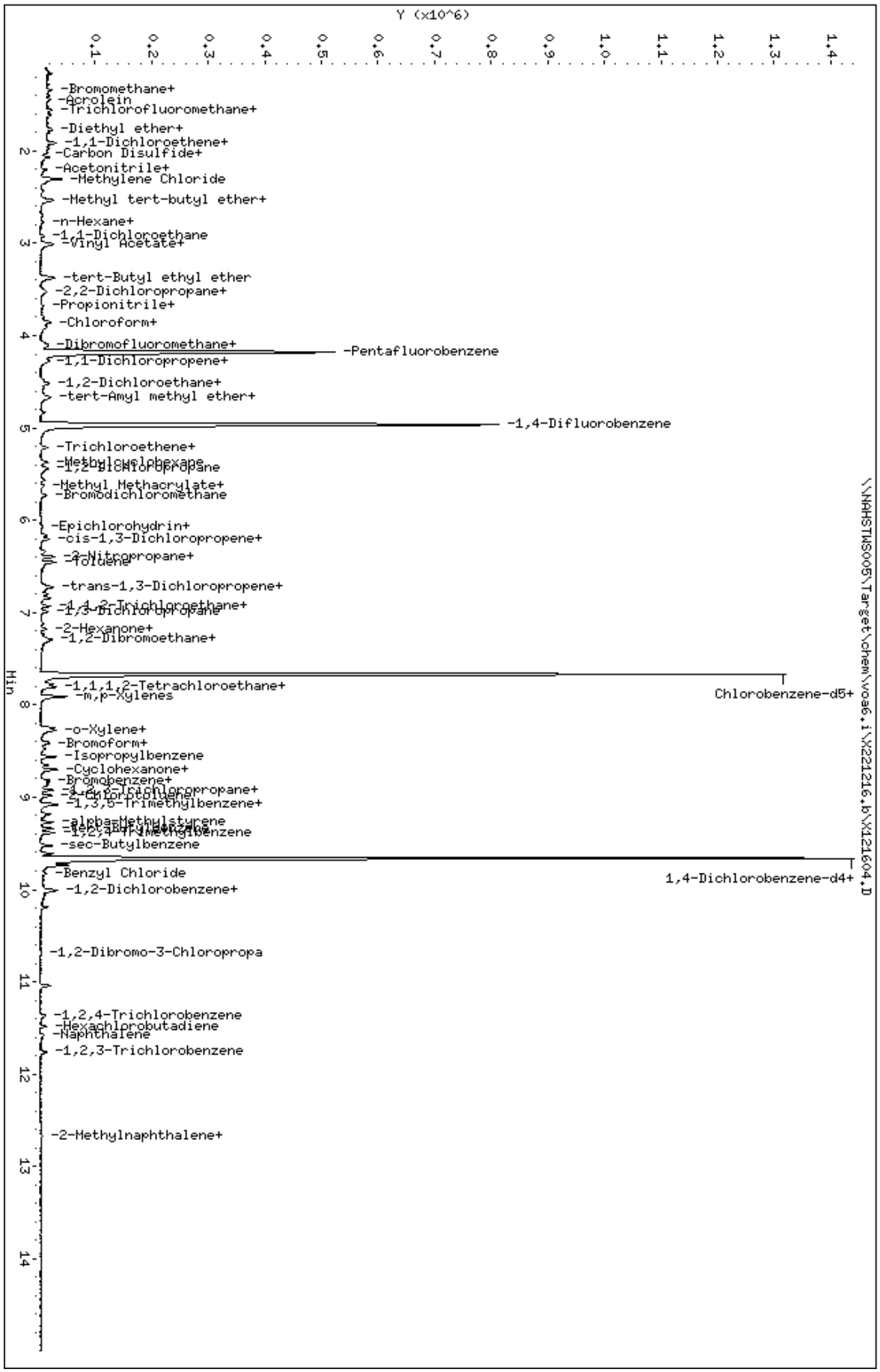
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	131	Methyl Acrylate	55	3.743	3.743	(0.896)	3084	1.00000	1.00(M)
	162	Butyl acrylate	55	8.271	8.271	(1.078)	7647	1.00000	0.90
	2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	2911	1.00000	1.30
	3	Chloromethane	50	1.078	1.078	(0.258)	3670	1.00000	3.07
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	3645	1.00000	0.92
	6	Bromomethane	94	1.340	1.340	(0.321)	3293	1.00000	2.83
	7	Chloroethane	64	1.400	1.400	(0.335)	2516	1.00000	0.91(M)
	8	Trichlorofluoromethane	101	1.554	1.554	(0.372)	4906	1.00000	0.89
	9	Acrolein	56	1.452	1.452	(0.348)	761	2.00000	5.22(M)
	10	Acetone	43	1.977	1.977	(0.473)	4787	2.00000	3.75(M)
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	3238	1.00000	0.94
	15	Iodomethane	142	2.026	2.026	(0.485)	3865	2.00000	4.18(TM)
	16	Acrylonitrile	53	2.554	2.554	(0.612)	2258	2.00000	1.94(M)
	17	Methylene Chloride	84	2.300	2.300	(0.550)	5355	1.00000	1.14(M)
	18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	12521	1.00000	1.11
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	18122	2.00000	2.02
	20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	3821	1.00000	0.99
	21	Vinyl Acetate	43	3.012	3.012	(0.721)	17842	2.00000	1.81
	22	1,1-Dichloroethane	63	2.922	2.922	(0.699)	7218	1.00000	1.07
	24	2-Butanone	43	3.619	3.619	(0.866)	2498	2.00000	4.83(M)
	26	2,2-Dichloropropane	77	3.514	3.514	(0.841)	5896	1.00000	1.03
	27	cis-1,2-Dichloroethene	96	3.540	3.540	(0.847)	4469	1.00000	0.96
	28	Chloroform	83	3.908	3.908	(0.935)	7768	1.00000	1.03
	29	Bromochloromethane	128	3.803	3.803	(0.910)	2689	1.00000	1.05
$	30	Dibromofluoromethane	113	4.103	4.103	(0.982)	4769	1.00000	0.94
	31	1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	5914	1.00000	0.99
	32	1,1-Dichloropropene	75	4.286	4.286	(0.863)	4698	1.00000	0.96
	33	1,2-Dichloroethane	62	4.564	4.564	(0.919)	5568	1.00000	0.99
	34	Carbon Tetrachloride	117	4.271	4.271	(0.860)	6221	1.00000	1.19
$	35	1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	5559	1.00000	1.48
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685937	50.0000	
	37	Benzene	78	4.515	4.515	(0.909)	16367	1.00000	0.99
	38	Trichloroethene	130	5.216	5.216	(1.051)	4352	1.00000	0.93
	39	Bromodichloromethane	83	5.730	5.730	(1.154)	6296	1.00000	1.02(M)
	41	2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	3202	2.00000	1.83(M)
	42	1,2-Dichloropropane	63	5.445	5.445	(1.097)	4604	1.00000	1.05(M)
	44	Dibromomethane	93	5.557	5.557	(1.119)	2906	1.00000	0.98
	45	4-Methyl-2-Pentanone	43	6.341	6.341	(0.827)	6859	2.00000	1.97
	46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	6537	1.00000	0.90
*	47	Chlorobenzene-d5	117	7.671	7.671	(1.000)	649074	50.0000	
$	48	Toluene-d8	98	6.401	6.401	(0.834)	17067	1.00000	1.06
	50	Toluene	91	6.457	6.457	(0.842)	17914	1.00000	0.99
	51	trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	5418	1.00000	0.90
	52	2-Hexanone	43	7.109	7.109	(0.927)	4520	2.00000	1.91
	53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	3499	1.00000	0.97
	54	1,3-Dichloropropane	76	6.989	6.989	(0.911)	7216	1.00000	1.01
	55	Dibromochloromethane	129	7.177	7.177	(0.936)	5024	1.00000	0.96
	56	Tetrachloroethene	164	6.933	6.933	(0.904)	3331	1.00000	0.89
	57	1,2-Dibromoethane	107	7.270	7.270	(0.948)	4350	1.00000	0.96
	58	1-Chlorohexane	55	7.705	7.705	(1.552)	3155	1.00000	0.95(MH)
	59	Chlorobenzene	112	7.698	7.698	(1.003)	12555	1.00000	0.98
	60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	4485	1.00000	0.94

61 Ethylbenzene	106	7.806	7.806 (1.018)	5698	1.00000	0.95
62 m,p-Xylenes	106	7.911	7.911 (1.031)	14464	2.00000	1.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.249	8.249	(1.075)	6670	1.00000	0.87
	64 Styrene	104	8.282	8.282	(1.080)	10384	1.00000	0.81
	66 Bromoform	173	8.417	8.417	(1.097)	3274	1.00000	0.90(T)
	67 Isopropylbenzene	105	8.564	8.564	(1.116)	15163	1.00000	0.87
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	5934	1.00000	1.05(M)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.134)	7790	1.00000	1.36(M)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	351251	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	3978	1.00000	1.01
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	15006	1.00000	0.77
	74 Bromobenzene	156	8.818	8.818	(0.913)	5554	1.00000	0.96
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	11820	1.00000	0.82
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	12470	1.00000	0.97
	77 4-Chlorotoluene	91	9.085	9.085	(0.940)	12140	1.00000	0.83
	78 tert-Butylbenzene	119	9.340	9.340	(0.967)	9357	1.00000	0.79
	79 1,2,4-Trimethylbenzene	105	9.385	9.385	(0.971)	12988	1.00000	0.85
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	12395	1.00000	0.79
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	10009	1.00000	0.71
	83 1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	8523	1.00000	0.89
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	9866	1.00000	0.94
	86 Benzyl Chloride	91	9.823	9.823	(1.280)	4632	1.00000	3.12
	87 n-Butylbenzene	91	10.014	10.014	(1.036)	8459	1.00000	2.37(M)
	88 1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	8626	1.00000	0.87
	89 1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	778	1.00000	0.95(M)
	90 1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	4609	1.00000	0.74
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	1928	1.00000	0.65
	92 Naphthalene	128	11.574	11.574	(1.198)	11288	1.00000	0.79(M)
	93 1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	4801	1.00000	0.80
M	94 1,2-Dichloroethylene (total)	96				8290	2.00000	
M	95 Xylenes (total)	106				21134	3.00000	
	141 Cyclohexane	56	4.125	4.125	(0.987)	4003	1.00000	2.12(H)
	138 Freon TF	101	1.906	1.906	(0.456)	3356	1.00000	1.01
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	6848	1.00000	0.81(M)
	146 Methyl Acetate	43	2.236	2.236	(0.535)	2127	1.00000	1.04(M)
	148 Tert-Butyl alcohol	59	2.438	2.438	(0.584)	6051	20.0000	19.40(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
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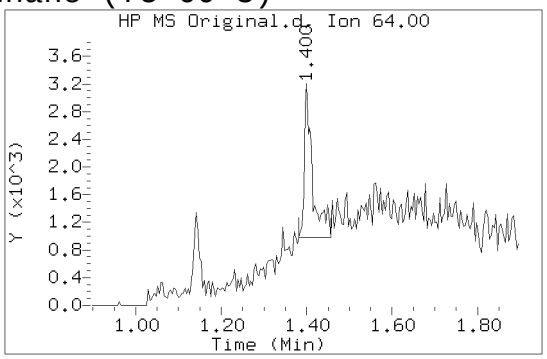
2984
HEIGHT
2221
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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2516
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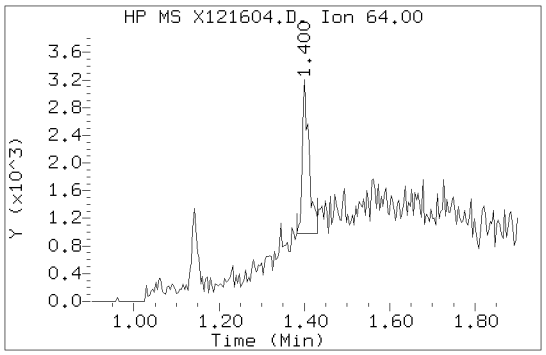
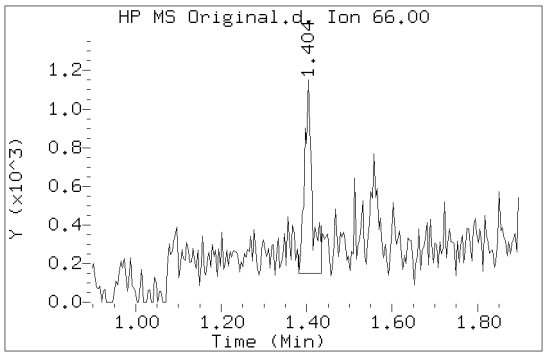
2221
27-Dec-2022
16:07
linh
pham



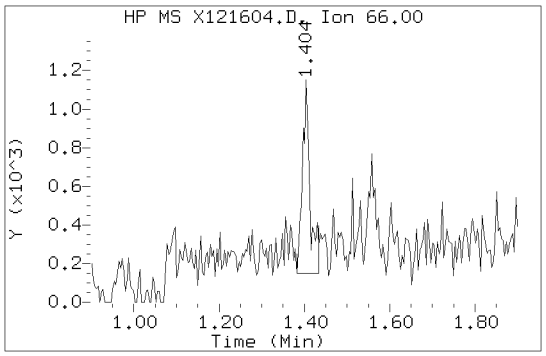
BEFORE

MASS
66
AREA
1262
HEIGHT
1002
27-Dec-2022
16:03
linh
pham



AFTER

MASS
66
AREA
1262
HEIGHT
1002
27-Dec-2022
16:07
linh
pham

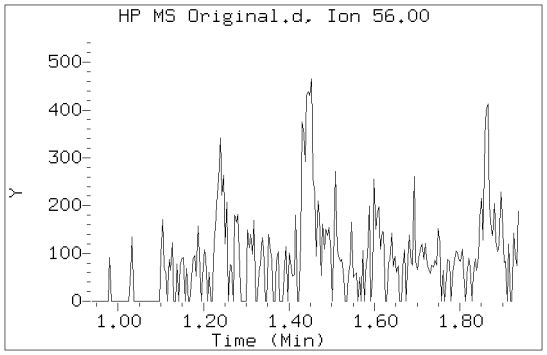


Acrolein (107-02-8)

Reason Code:

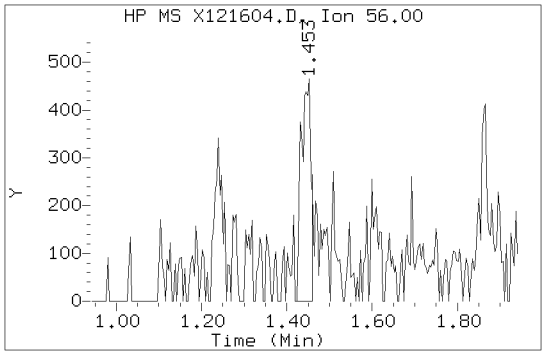
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



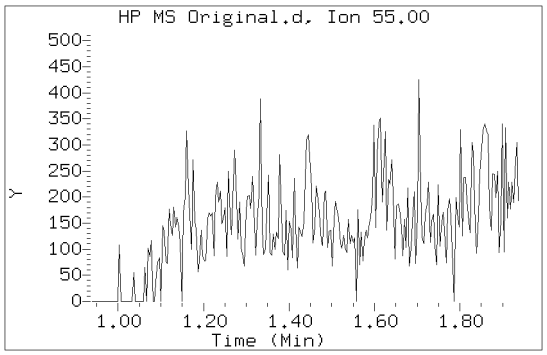
AFTER

MASS
56
AREA
761
HEIGHT
465
27-Dec-2022
16:07
linh
pham



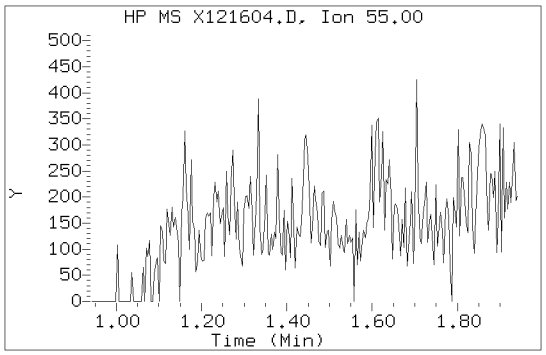
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

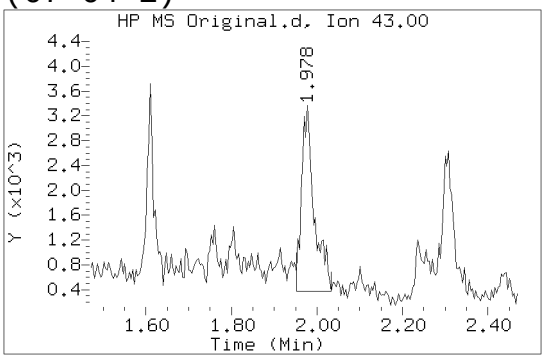


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Acetone (67-64-1)

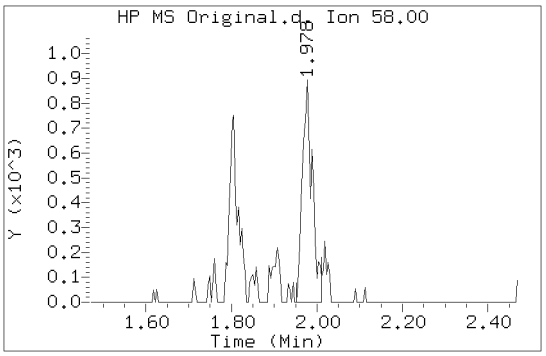
BEFORE

MASS
43
AREA
6265
HEIGHT
2993
27-Dec-2022
16:03
linh
pham



BEFORE

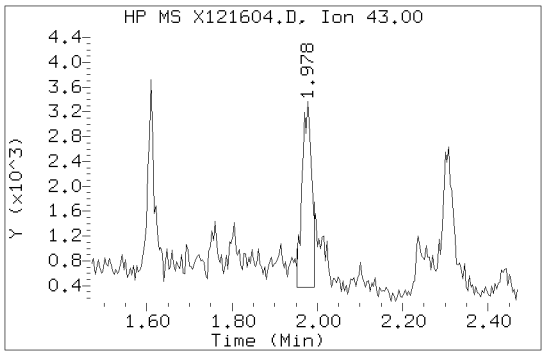
MASS
58
AREA
1474
HEIGHT
894
27-Dec-2022
16:03
linh
pham



Reason Code:

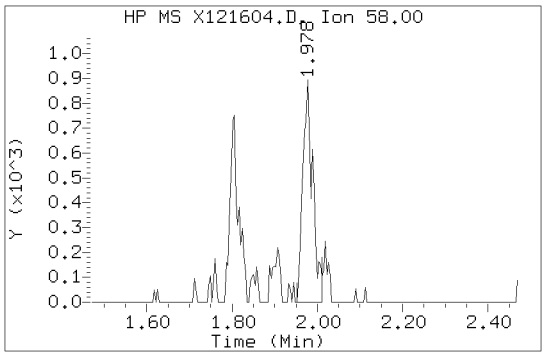
AFTER

MASS
43
AREA
4787
HEIGHT
2993
27-Dec-2022
16:07
linh
pham



AFTER

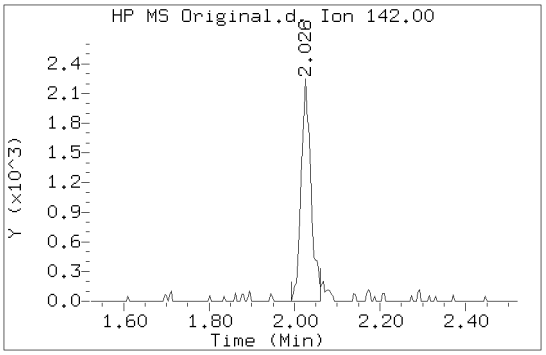
MASS
58
AREA
1474
HEIGHT
894
27-Dec-2022
16:07
linh
pham



Iodomethane (74-88-4)

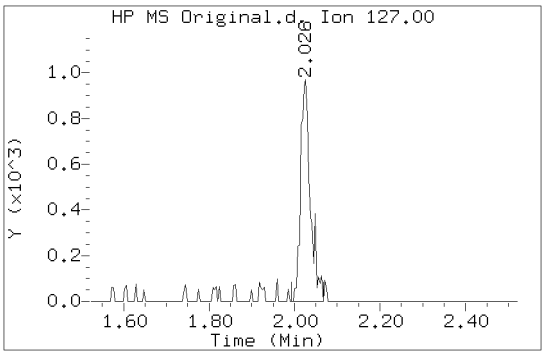
BEFORE

MASS
142
AREA
3661
HEIGHT
2248
27-Dec-2022
16:03
linh
pham



BEFORE

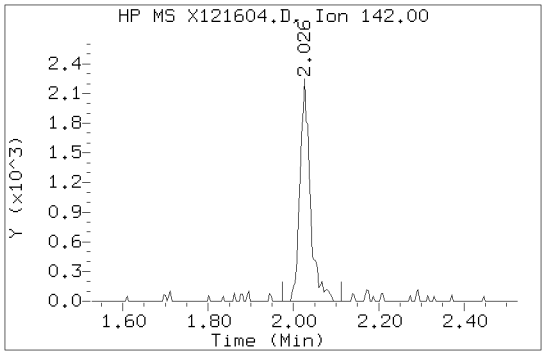
MASS
127
AREA
1585
HEIGHT
970
27-Dec-2022
16:03
linh
pham



Reason Code:

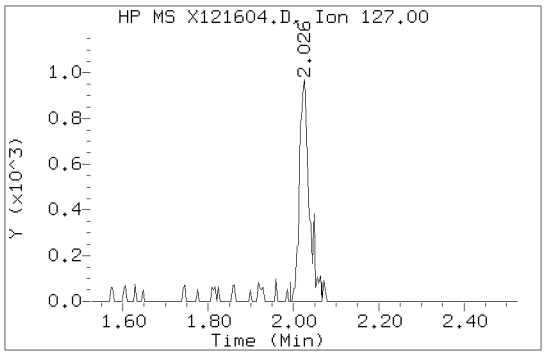
AFTER

MASS
142
AREA
3865
HEIGHT
2248
27-Dec-2022
16:07
linh
pham



AFTER

MASS
127
AREA
1585
HEIGHT
970
27-Dec-2022
16:07
linh
pham



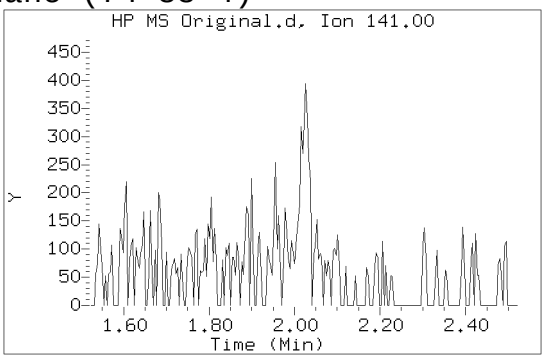
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Iodomethane (74-88-4)

Reason Code:

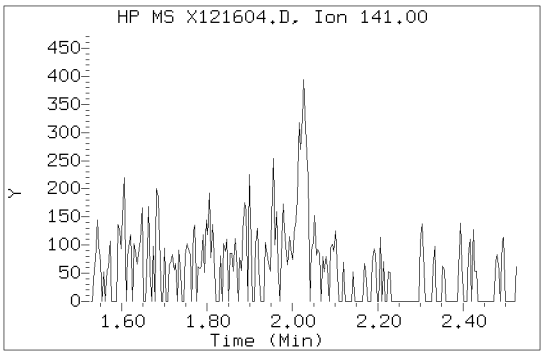
BEFORE

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

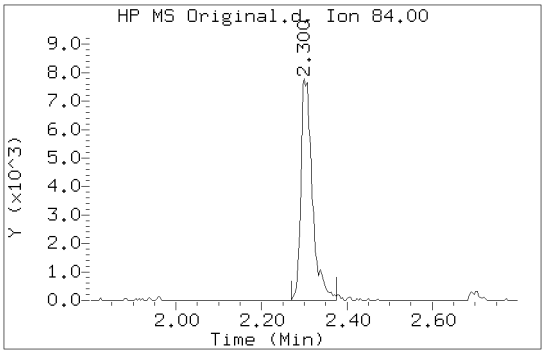


Methylene Chloride (75-09-2)

Reason Code:

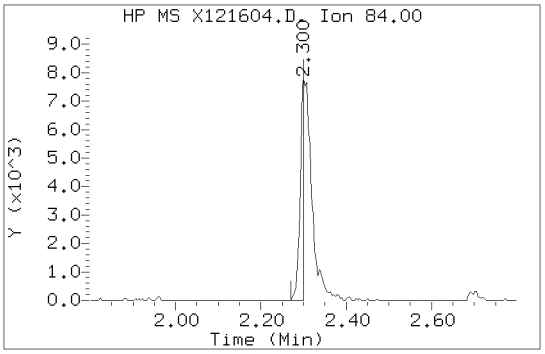
BEFORE

MASS
84
AREA
14864
HEIGHT
7788
27-Dec-2022
16:03
linh
pham



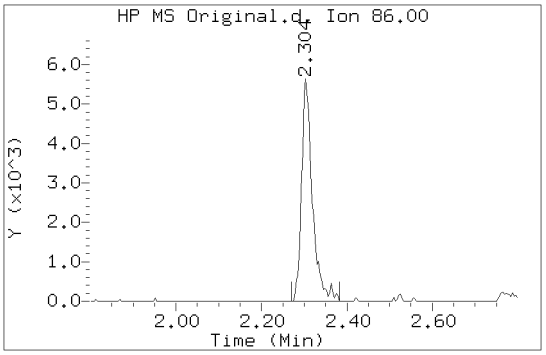
AFTER

MASS
84
AREA
5355
HEIGHT
7788
27-Dec-2022
16:07
linh
pham



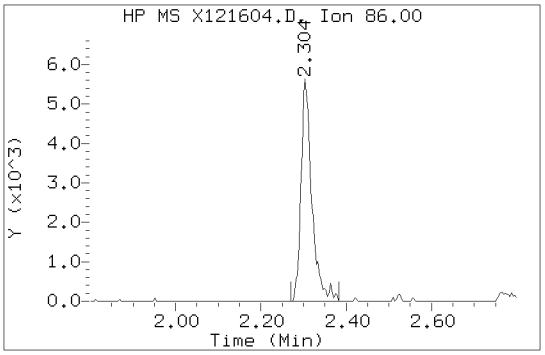
BEFORE

MASS
86
AREA
10161
HEIGHT
5637
27-Dec-2022
16:03
linh
pham



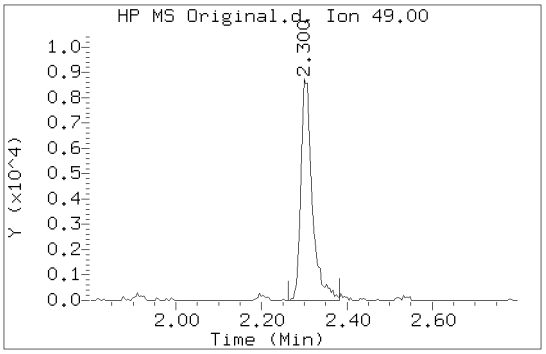
AFTER

MASS
86
AREA
10161
HEIGHT
5637
27-Dec-2022
16:07
linh
pham



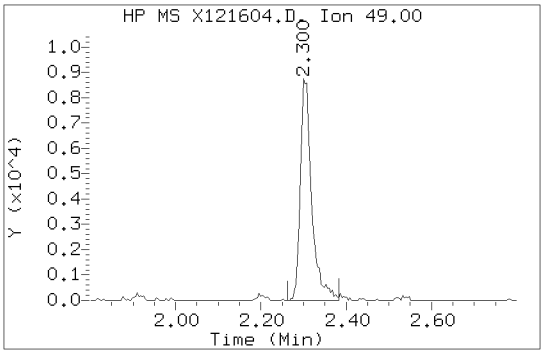
BEFORE

MASS
49
AREA
16641
HEIGHT
8752
27-Dec-2022
16:03
linh
pham



AFTER

MASS
49
AREA
16641
HEIGHT
8752
27-Dec-2022
16:07
linh
pham

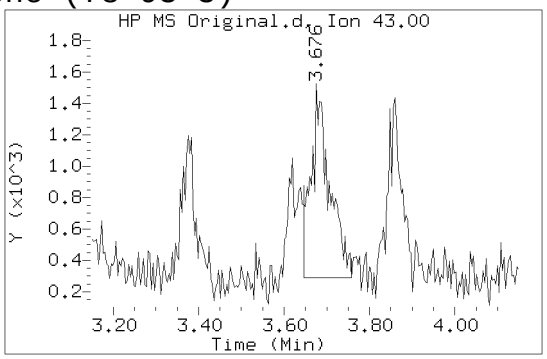


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

2-Butanone (78-93-3)

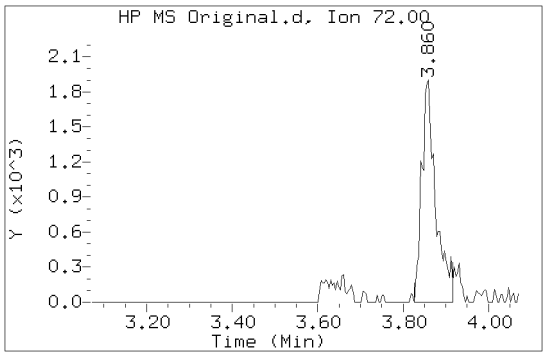
BEFORE

MASS
43
AREA
3758
HEIGHT
1236
27-Dec-2022
16:03
linh
pham



BEFORE

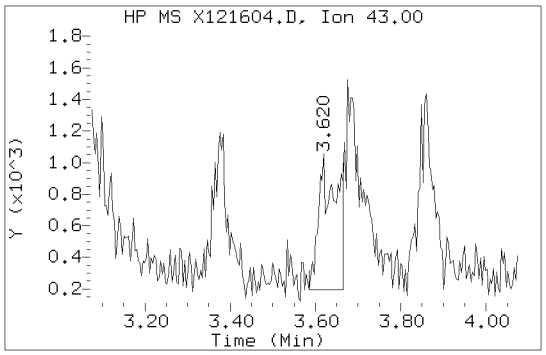
MASS
72
AREA
4320
HEIGHT
1902
27-Dec-2022
16:03
linh
pham



Reason Code:

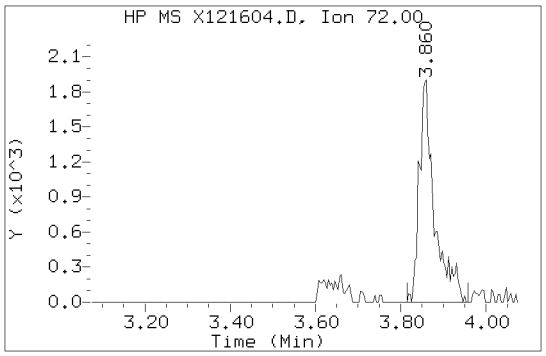
AFTER

MASS
43
AREA
2498
HEIGHT
859
27-Dec-2022
16:07
linh
pham



AFTER

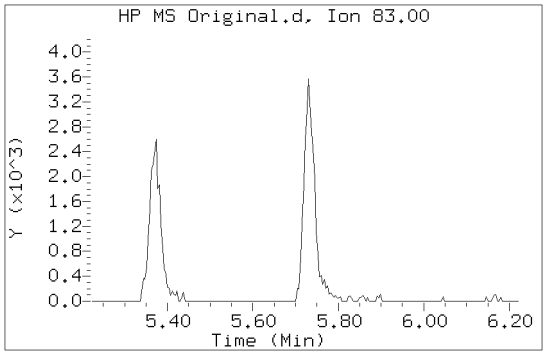
MASS
72
AREA
4690
HEIGHT
1902
27-Dec-2022
16:07
linh
pham



Bromodichloromethane (75-27-4)

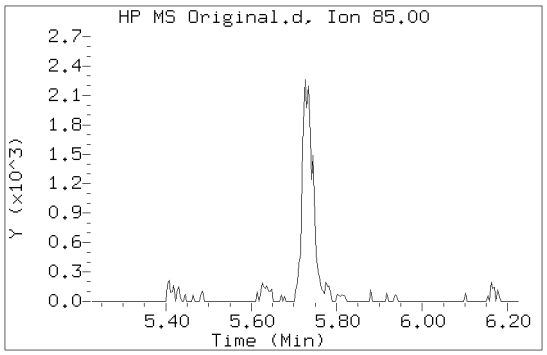
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

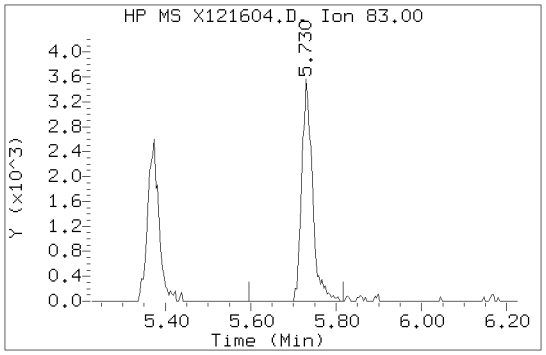
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

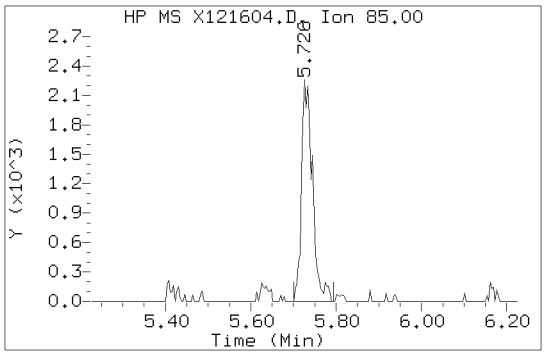
AFTER

MASS
83
AREA
6296
HEIGHT
3568
27-Dec-2022
16:07
linh
pham



AFTER

MASS
85
AREA
4084
HEIGHT
2261
27-Dec-2022
16:07
linh
pham

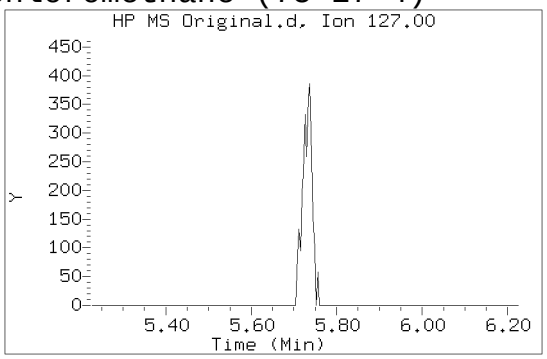


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

BEFORE

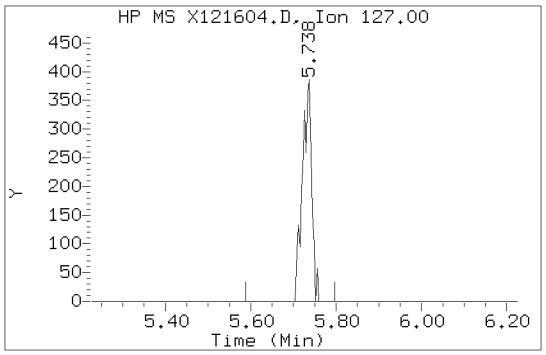
MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

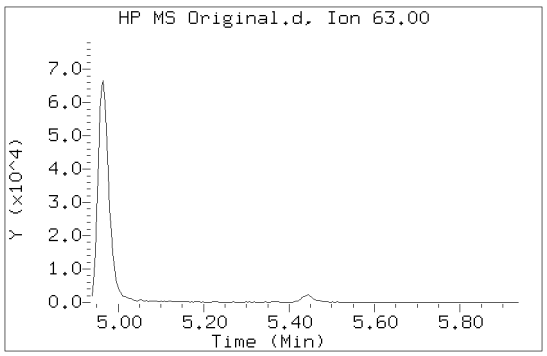
MASS
127
AREA
595
HEIGHT
386
27-Dec-2022
16:07
linh
pham



1,2-Dichloropropane (78-87-5)

BEFORE

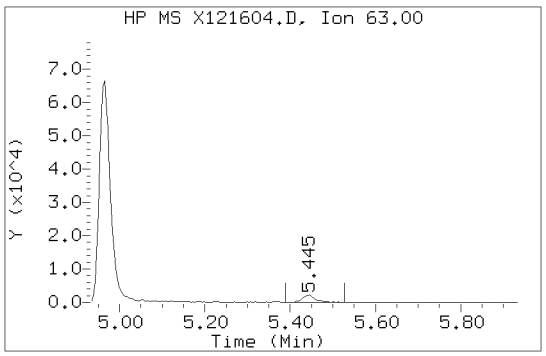
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

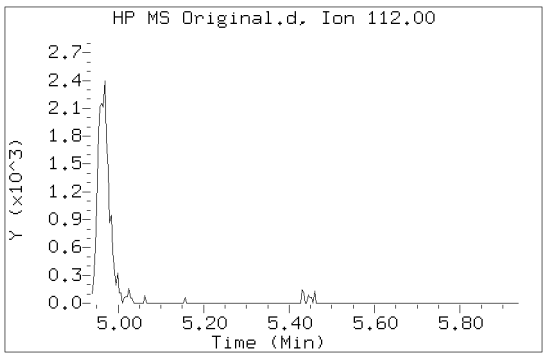
AFTER

MASS
63
AREA
4604
HEIGHT
2381
27-Dec-2022
16:07
linh
pham



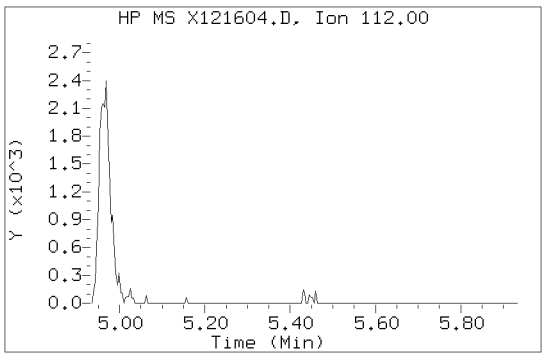
BEFORE

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

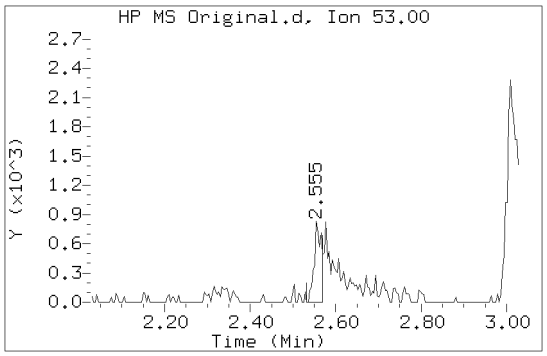
MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Acrylonitrile (107-13-1)

BEFORE

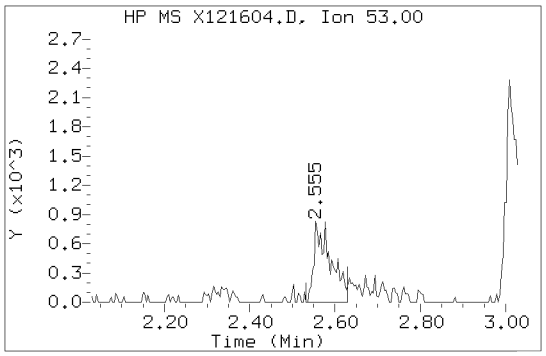
MASS
53
AREA
967
HEIGHT
834
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
53
AREA
2258
HEIGHT
834
27-Dec-2022
16:07
linh
pham

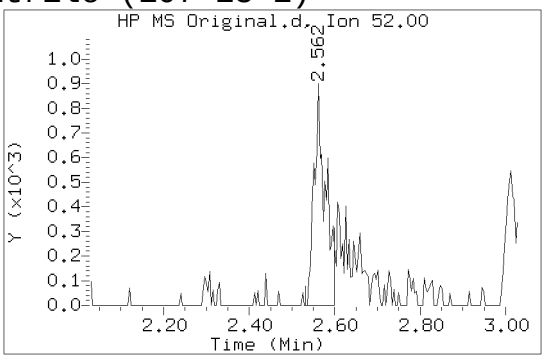


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

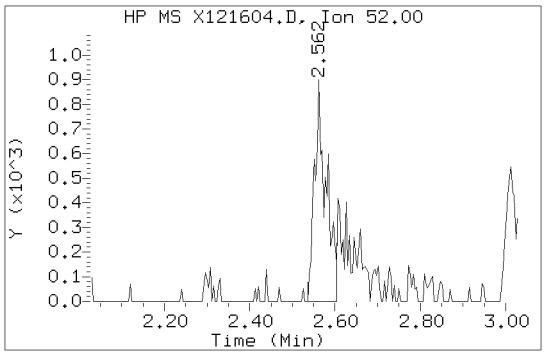
Acrylonitrile (107-13-1)

Reason Code:

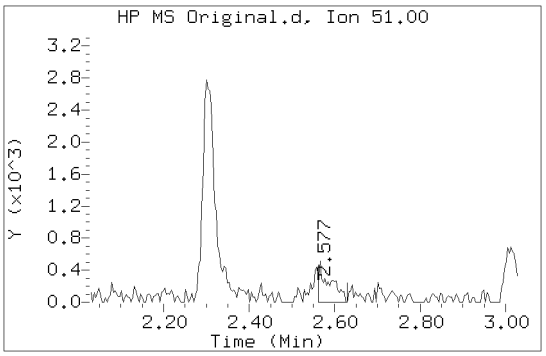
BEFORE
MASS
52
AREA
1657
HEIGHT
900
27-Dec-2022
16:03
linh
pham



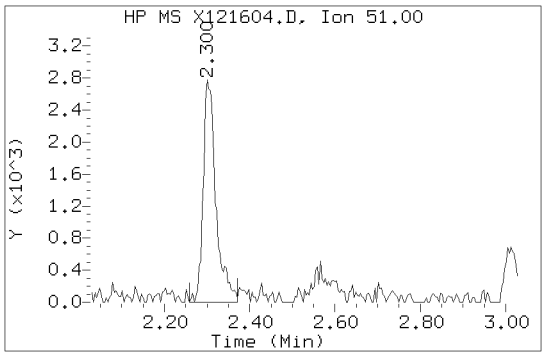
AFTER
MASS
52
AREA
1692
HEIGHT
900
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
51
AREA
901
HEIGHT
301
27-Dec-2022
16:03
linh
pham



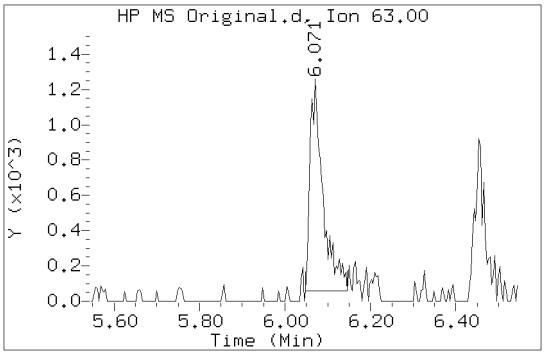
AFTER
MASS
51
AREA
5757
HEIGHT
2777
27-Dec-2022
16:07
linh
pham



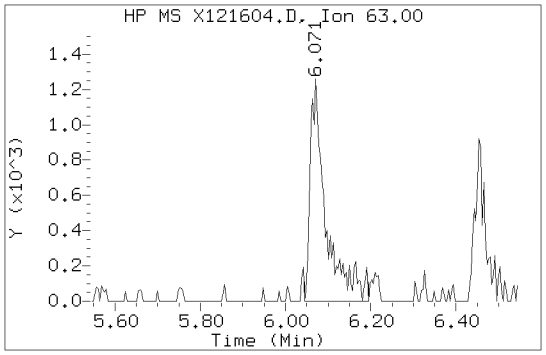
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

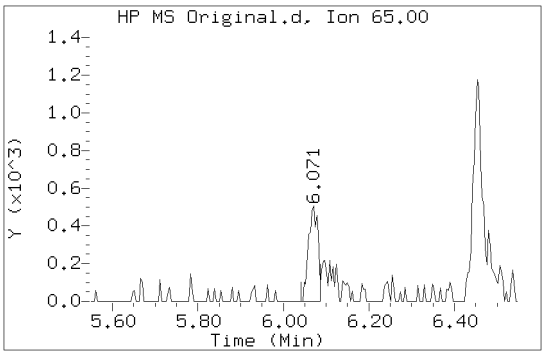
BEFORE
MASS
63
AREA
2513
HEIGHT
1202
27-Dec-2022
16:03
linh
pham



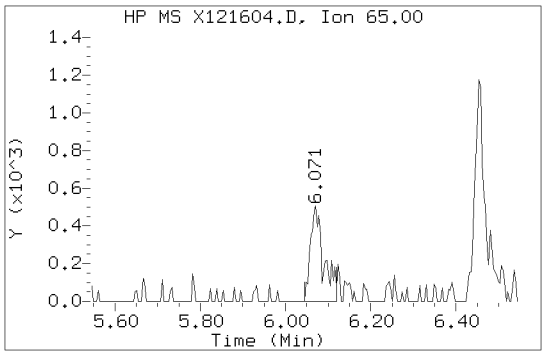
AFTER
MASS
63
AREA
3202
HEIGHT
1260
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
65
AREA
775
HEIGHT
507
27-Dec-2022
16:03
linh
pham



AFTER
MASS
65
AREA
1093
HEIGHT
507
27-Dec-2022
16:07
linh
pham



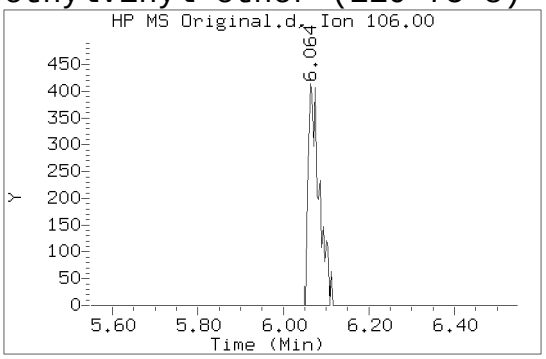
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

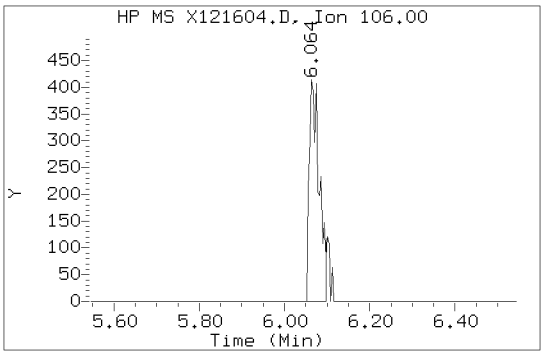
BEFORE

MASS
106
AREA
725
HEIGHT
414
27-Dec-2022
16:03
linh
pham



AFTER

MASS
106
AREA
673
HEIGHT
414
27-Dec-2022
16:07
linh
pham

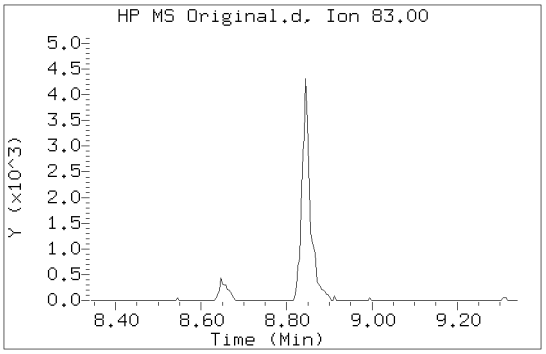


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

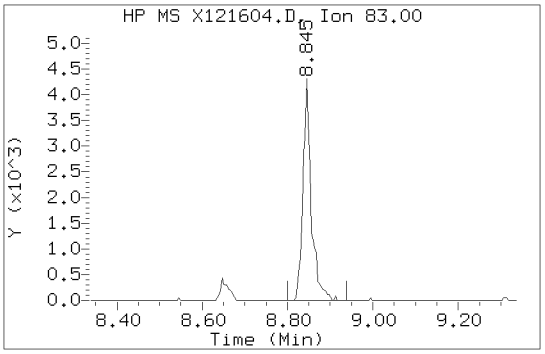
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



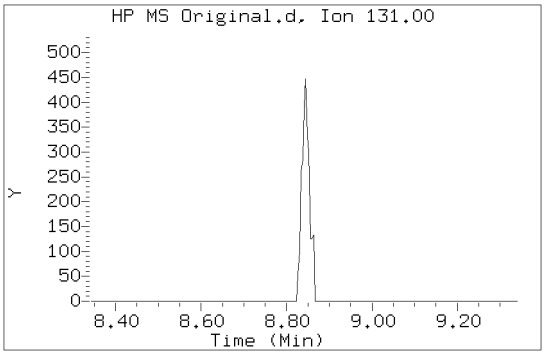
AFTER

MASS
83
AREA
5934
HEIGHT
4312
27-Dec-2022
16:07
linh
pham



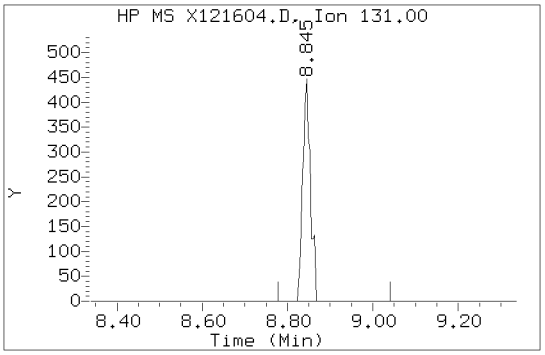
BEFORE

MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



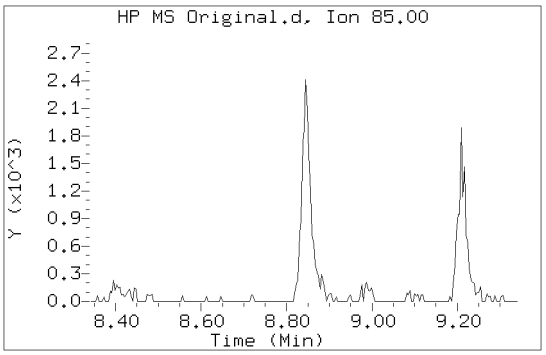
AFTER

MASS
131
AREA
574
HEIGHT
447
27-Dec-2022
16:07
linh
pham



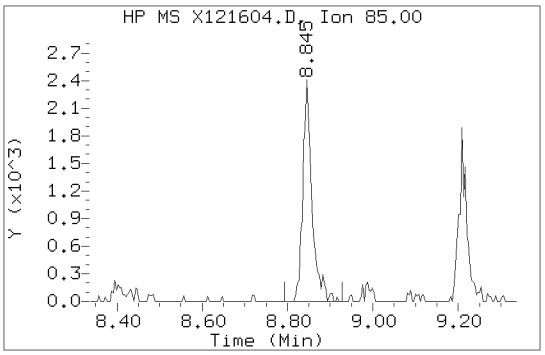
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
3682
HEIGHT
2411
27-Dec-2022
16:07
linh
pham



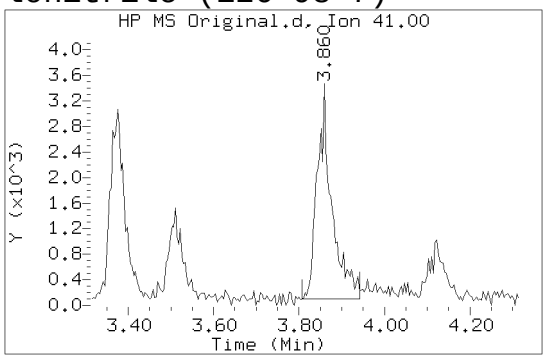
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Methacrylonitrile (126-98-7)

Reason Code:

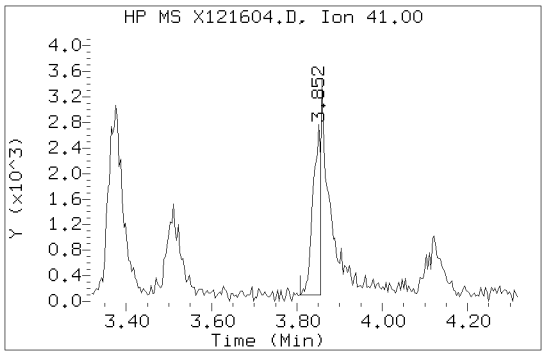
BEFORE

MASS
41
AREA
7966
HEIGHT
3370
27-Dec-2022
16:03
linh
pham



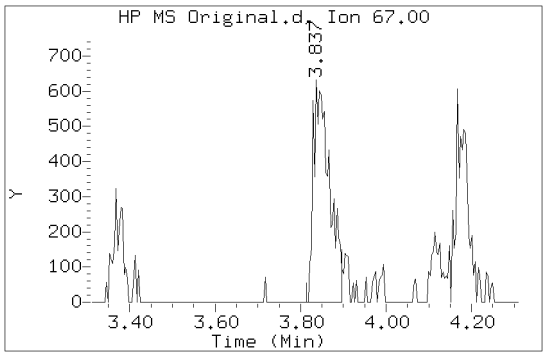
AFTER

MASS
41
AREA
3285
HEIGHT
2668
27-Dec-2022
16:07
linh
pham



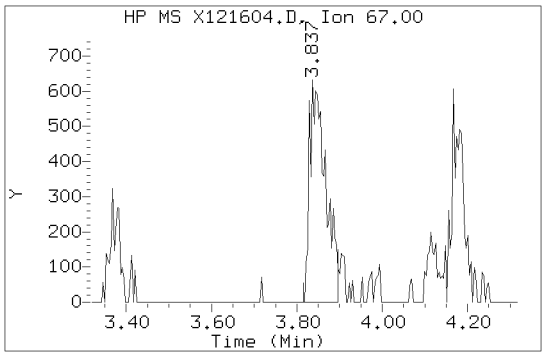
BEFORE

MASS
67
AREA
1649
HEIGHT
632
27-Dec-2022
16:03
linh
pham



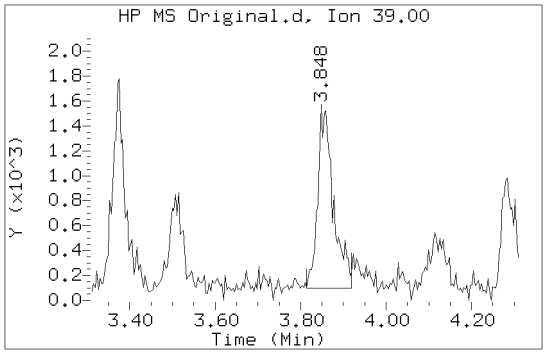
AFTER

MASS
67
AREA
1649
HEIGHT
632
27-Dec-2022
16:07
linh
pham



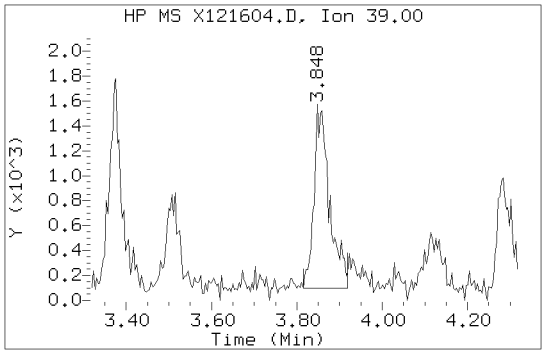
BEFORE

MASS
39
AREA
3700
HEIGHT
1473
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
3700
HEIGHT
1473
27-Dec-2022
16:07
linh
pham

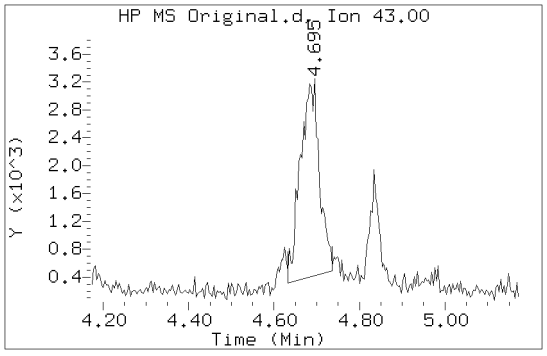


Isobutyl Alcohol (78-83-1)

Reason Code:

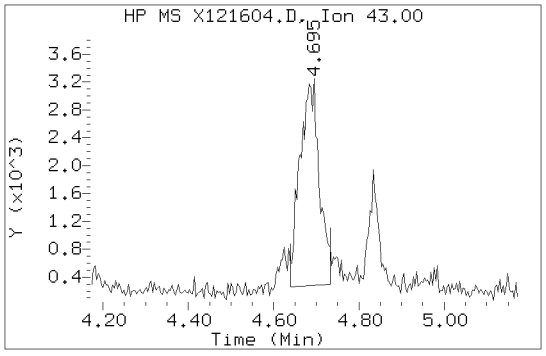
BEFORE

MASS
43
AREA
8847
HEIGHT
2826
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
9436
HEIGHT
2966
27-Dec-2022
16:07
linh
pham

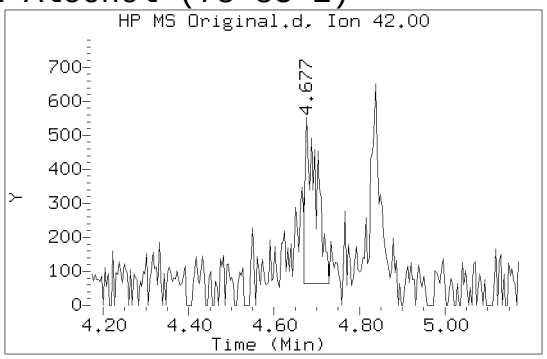


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

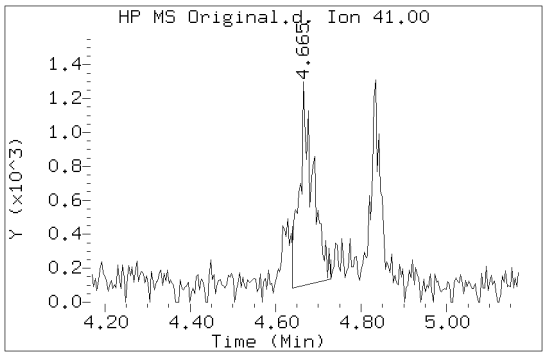
BEFORE

MASS
42
AREA
953
HEIGHT
488
27-Dec-2022
16:03
linh
pham



BEFORE

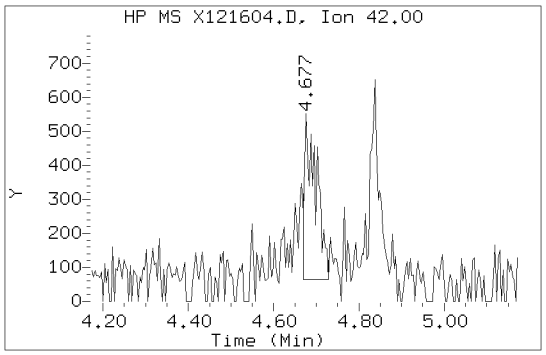
MASS
41
AREA
2650
HEIGHT
1200
27-Dec-2022
16:03
linh
pham



Reason Code:

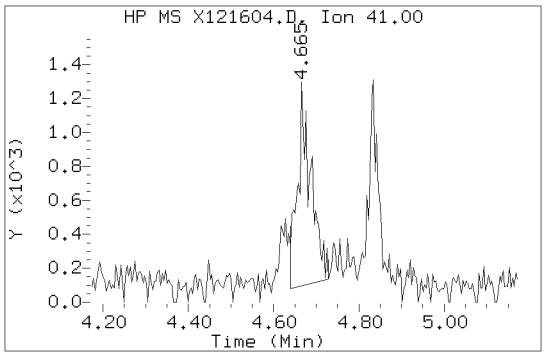
AFTER

MASS
42
AREA
953
HEIGHT
488
27-Dec-2022
16:07
linh
pham



AFTER

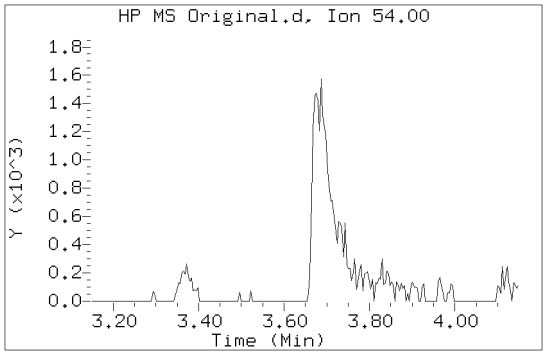
MASS
41
AREA
2656
HEIGHT
1201
27-Dec-2022
16:07
linh
pham



Propionitrile (107-12-0)

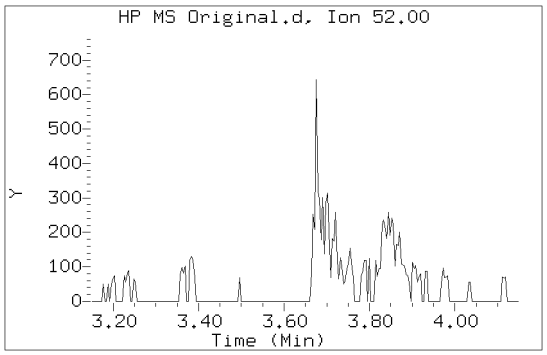
BEFORE

MASS
54
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

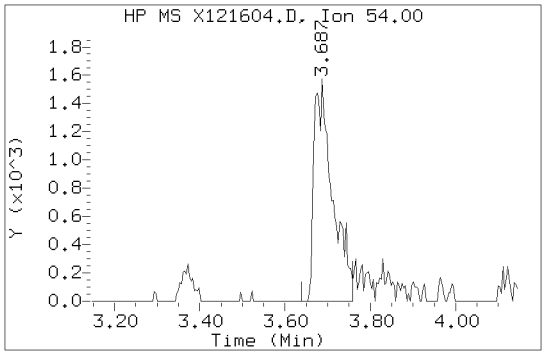
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

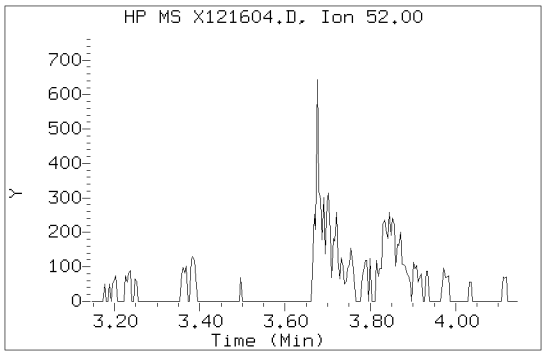
AFTER

MASS
54
AREA
4742
HEIGHT
1574
27-Dec-2022
16:07
linh
pham



AFTER

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



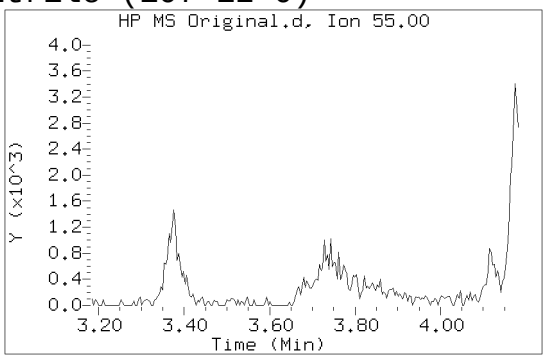
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

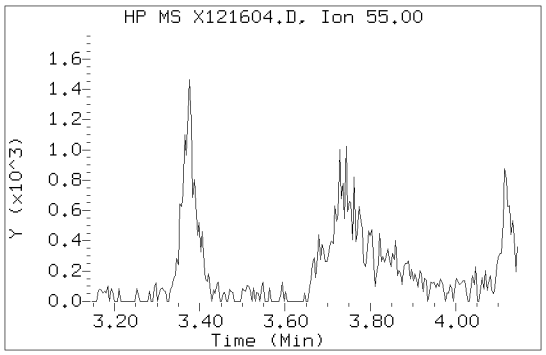
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

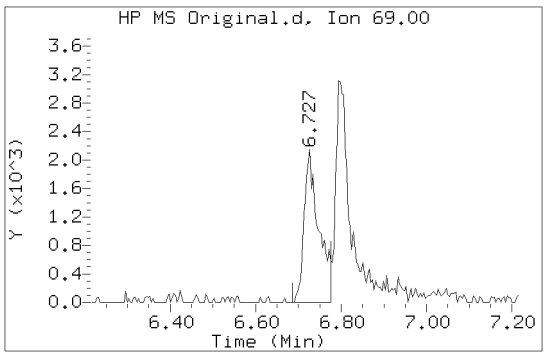


Ethyl Methacrylate (97-63-2)

Reason Code:

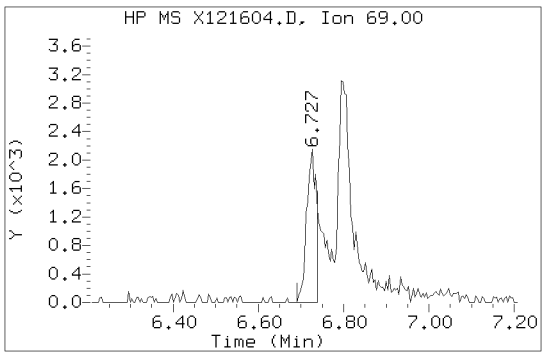
BEFORE

MASS
69
AREA
5177
HEIGHT
2156
27-Dec-2022
16:03
linh
pham



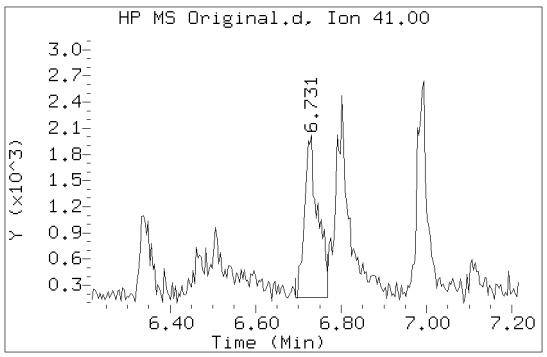
AFTER

MASS
69
AREA
3303
HEIGHT
2156
27-Dec-2022
16:07
linh
pham



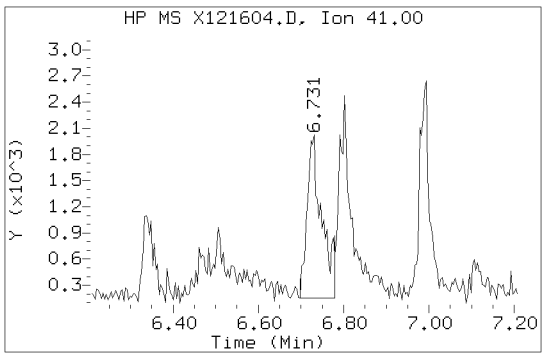
BEFORE

MASS
41
AREA
4059
HEIGHT
1867
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
4485
HEIGHT
1872
27-Dec-2022
16:07
linh
pham

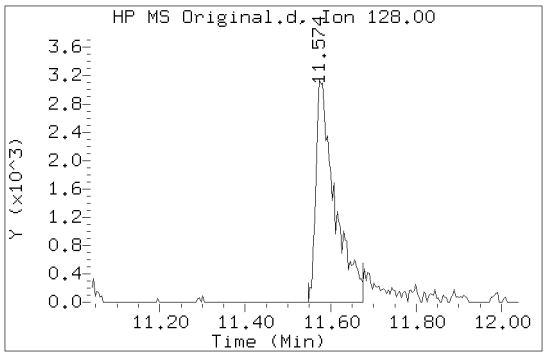


Naphthalene (91-20-3)

Reason Code:

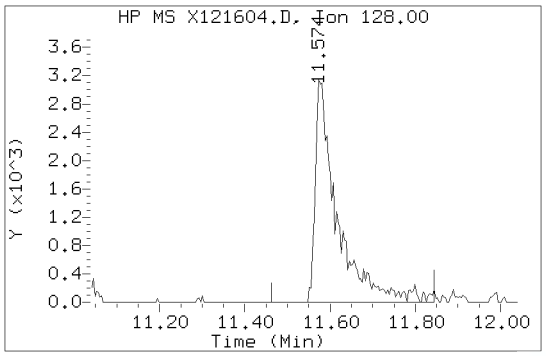
BEFORE

MASS
128
AREA
9627
HEIGHT
3139
27-Dec-2022
16:03
linh
pham



AFTER

MASS
128
AREA
11288
HEIGHT
3139
27-Dec-2022
16:07
linh
pham



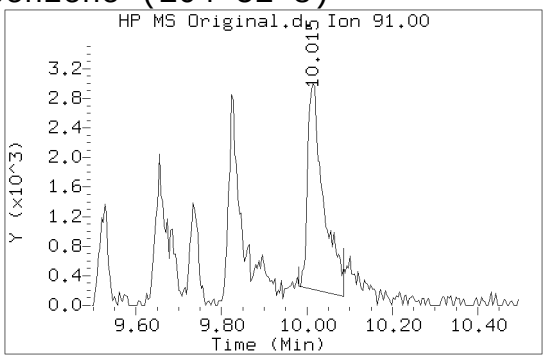
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

n-Butylbenzene (104-51-8)

Reason Code:

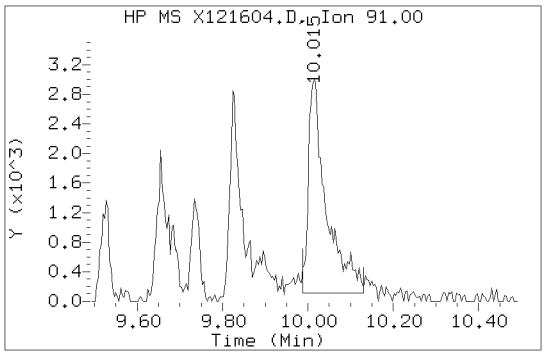
BEFORE

MASS
91
AREA
7194
HEIGHT
2783
27-Dec-2022
16:03
linh
pham



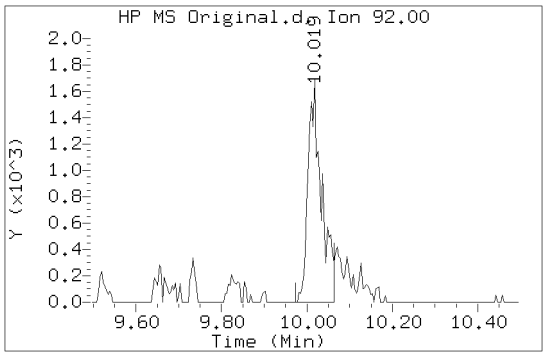
AFTER

MASS
91
AREA
8459
HEIGHT
2887
27-Dec-2022
16:07
linh
pham



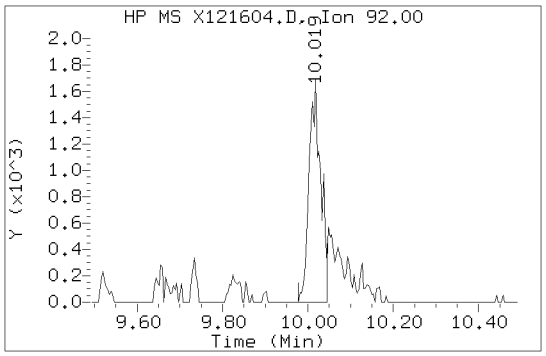
BEFORE

MASS
92
AREA
3696
HEIGHT
1686
27-Dec-2022
16:03
linh
pham



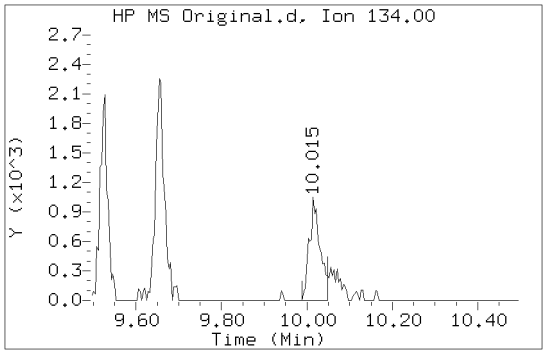
AFTER

MASS
92
AREA
3188
HEIGHT
1686
27-Dec-2022
16:07
linh
pham



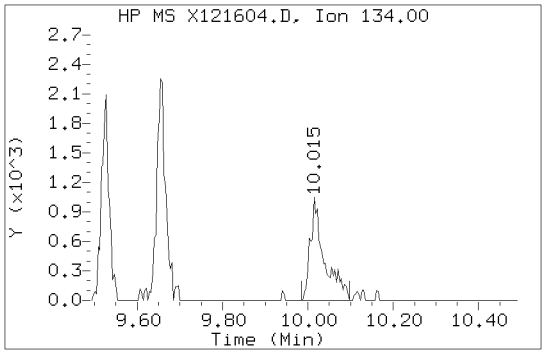
BEFORE

MASS
134
AREA
1829
HEIGHT
1051
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2397
HEIGHT
1051
27-Dec-2022
16:07
linh
pham

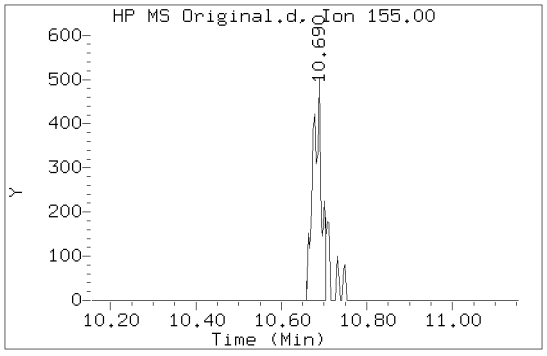


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

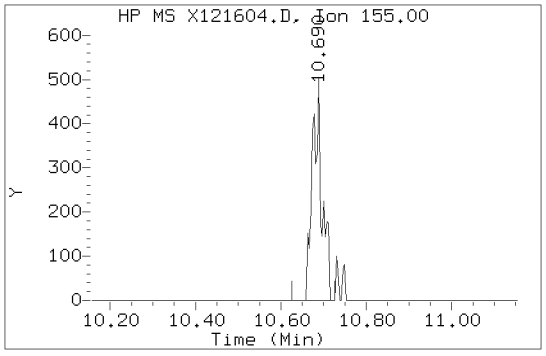
BEFORE

MASS
155
AREA
699
HEIGHT
502
27-Dec-2022
16:03
linh
pham



AFTER

MASS
155
AREA
778
HEIGHT
502
27-Dec-2022
16:07
linh
pham



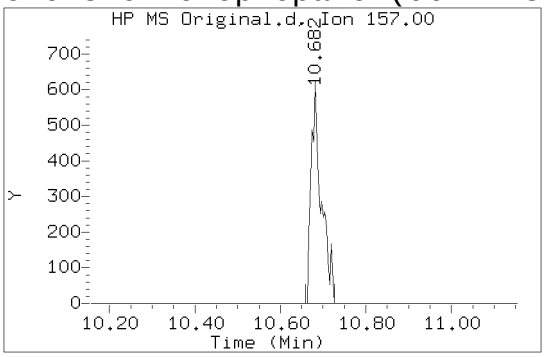
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

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

Reason Code:

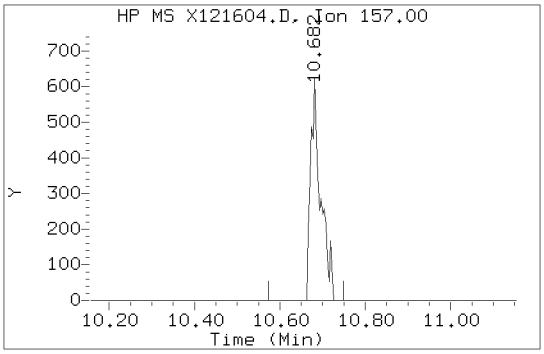
BEFORE

MASS
157
AREA
1023
HEIGHT
622
27-Dec-2022
16:03
linh
pham



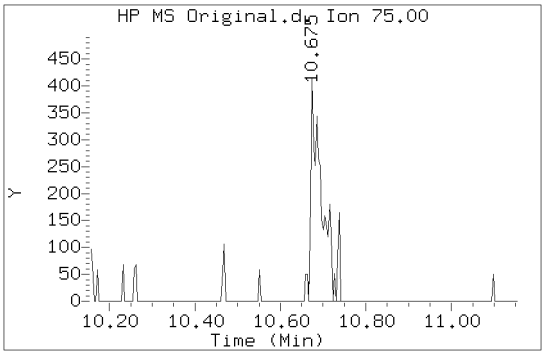
AFTER

MASS
157
AREA
1023
HEIGHT
622
27-Dec-2022
16:07
linh
pham



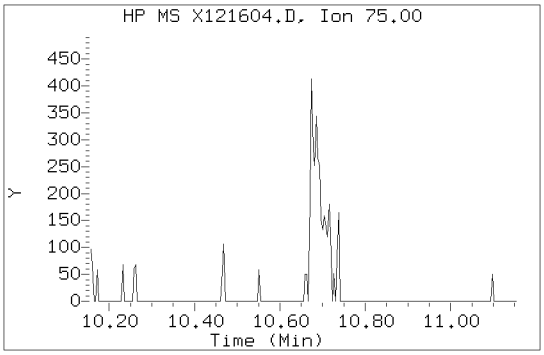
BEFORE

MASS
75
AREA
742
HEIGHT
413
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

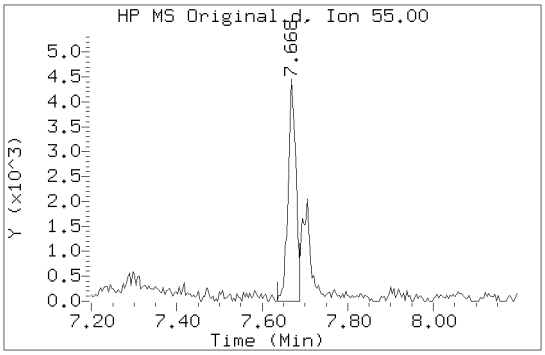


1-Chlorohexane (544-10-5)

Reason Code:

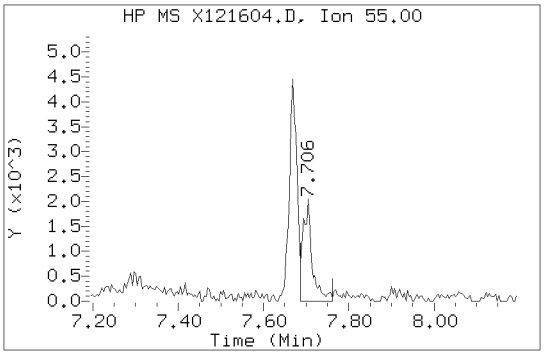
BEFORE

MASS
55
AREA
5660
HEIGHT
4460
27-Dec-2022
16:03
linh
pham



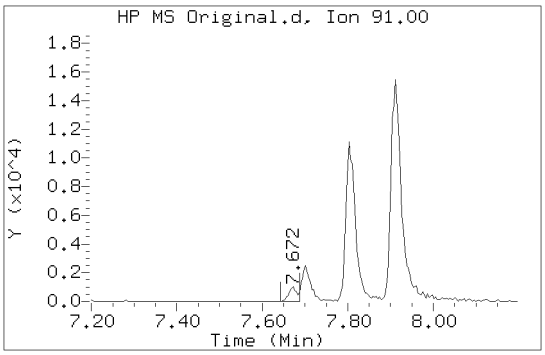
AFTER

MASS
55
AREA
3155
HEIGHT
2048
27-Dec-2022
16:07
linh
pham



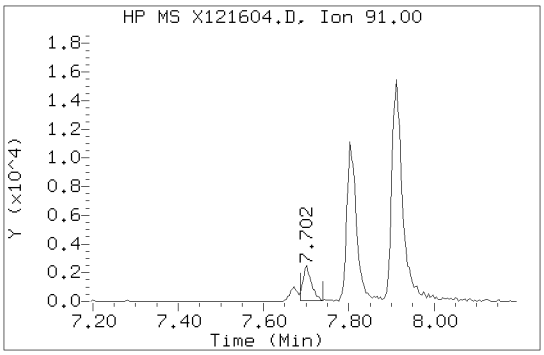
BEFORE

MASS
91
AREA
1392
HEIGHT
1029
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
3448
HEIGHT
2478
27-Dec-2022
16:07
linh
pham

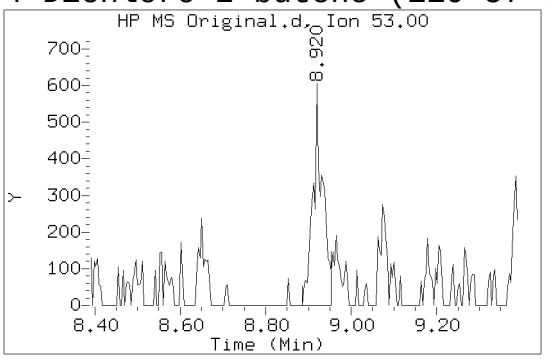


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

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

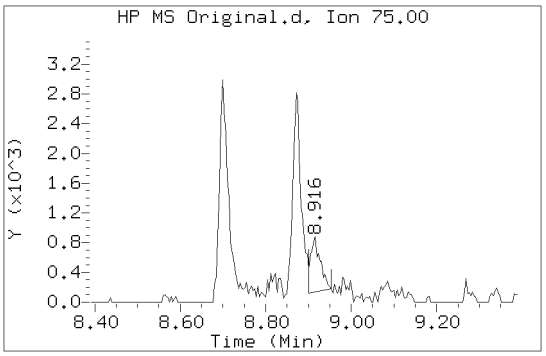
BEFORE

MASS
53
AREA
956
HEIGHT
605
27-Dec-2022
16:03
linh
pham



BEFORE

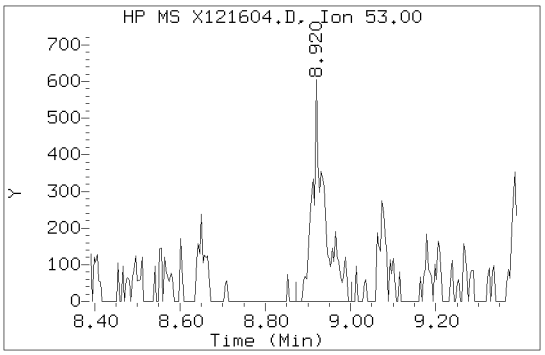
MASS
75
AREA
1166
HEIGHT
745
27-Dec-2022
16:03
linh
pham



Reason Code:

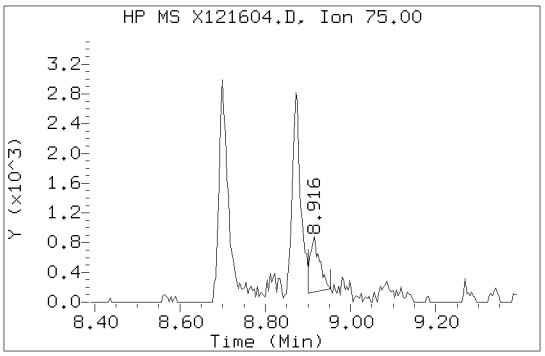
AFTER

MASS
53
AREA
1196
HEIGHT
605
27-Dec-2022
16:07
linh
pham



AFTER

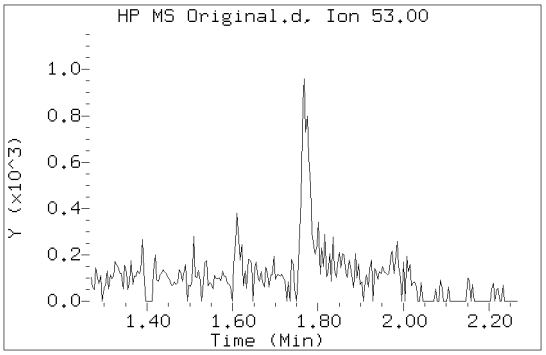
MASS
75
AREA
1166
HEIGHT
745
27-Dec-2022
16:07
linh
pham



Chloroprene (126-99-8)

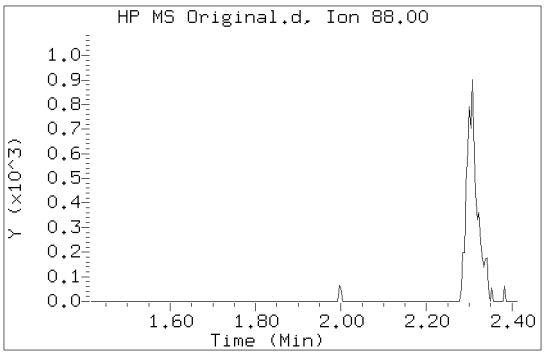
BEFORE

MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

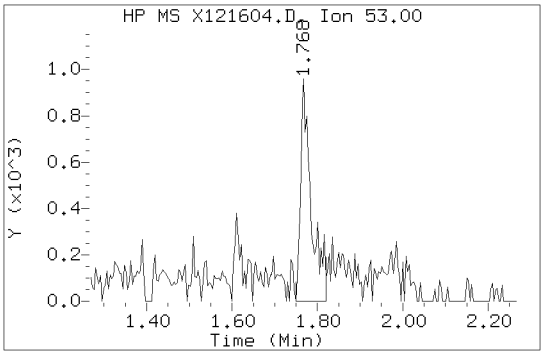
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

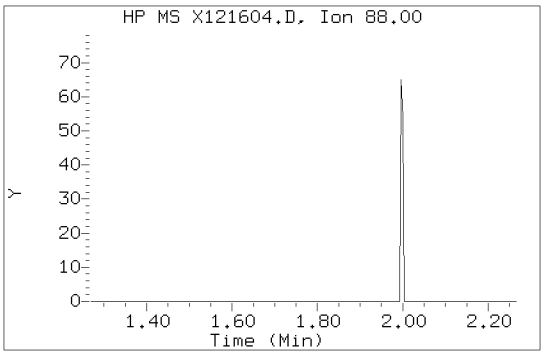
AFTER

MASS
53
AREA
1686
HEIGHT
959
27-Dec-2022
16:07
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

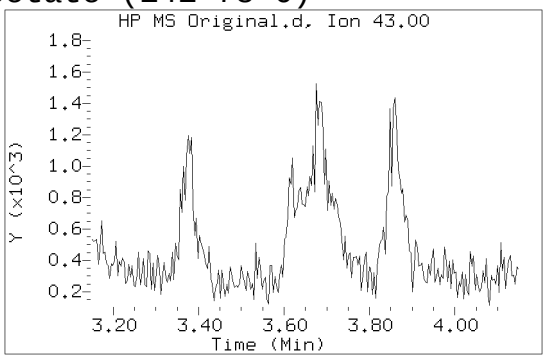


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

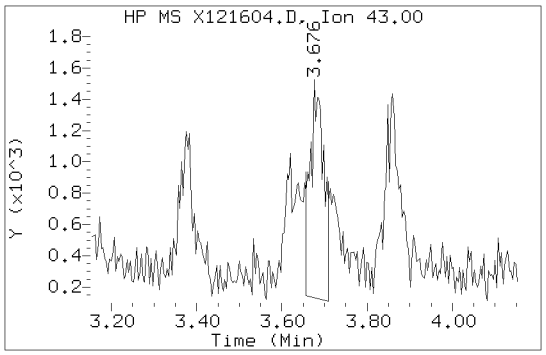
Ethyl Acetate (141-78-6)

Reason Code:

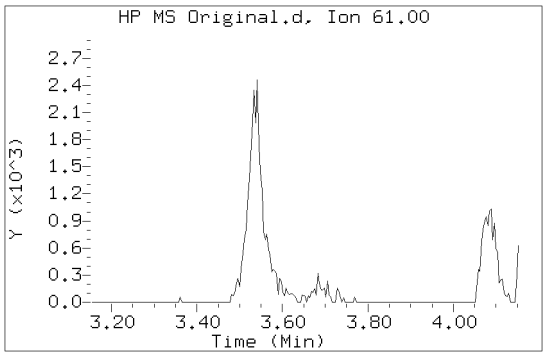
BEFORE
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



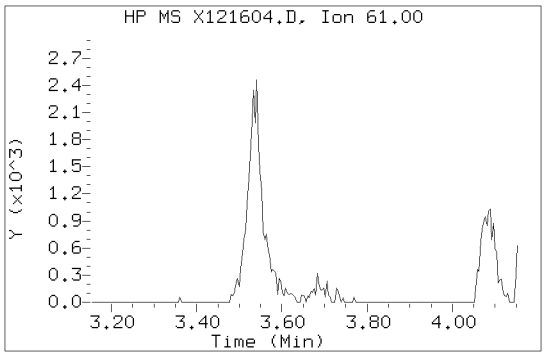
AFTER
MASS
43
AREA
3144
HEIGHT
1392
27-Dec-2022
16:07
linh
pham



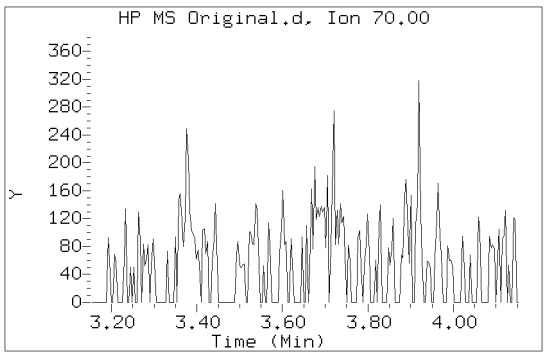
BEFORE
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



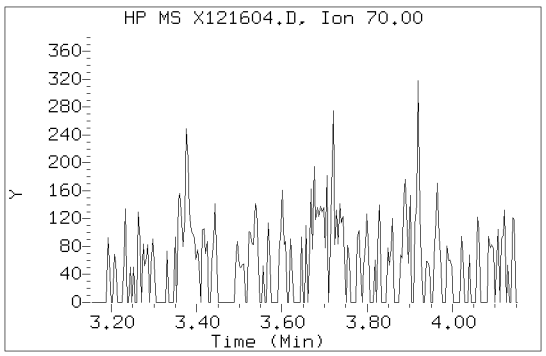
AFTER
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



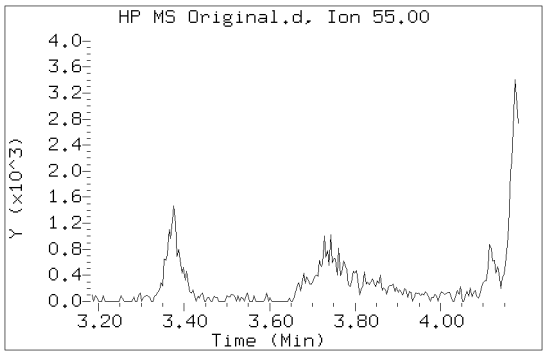
AFTER
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



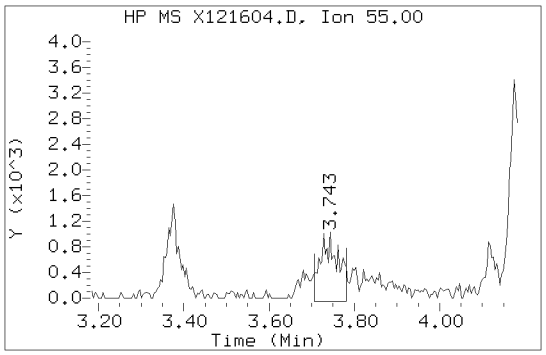
Methyl Acrylate (96-33-3)

Reason Code:

BEFORE
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
55
AREA
3084
HEIGHT
1078
27-Dec-2022
16:07
linh
pham



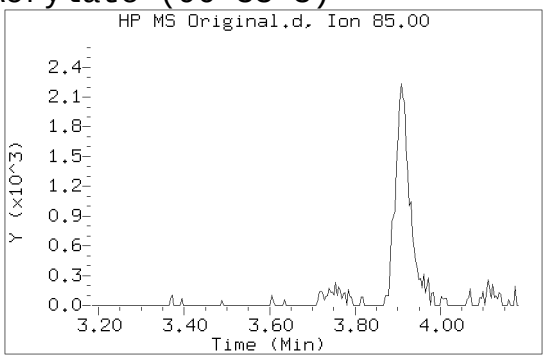
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

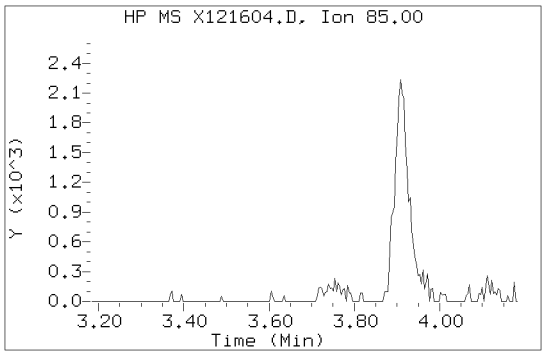
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

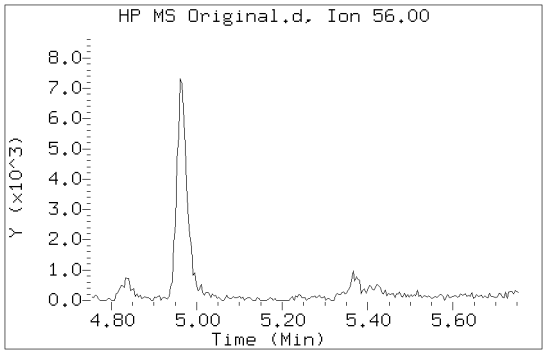


n-Butanol (71-36-3)

Reason Code:

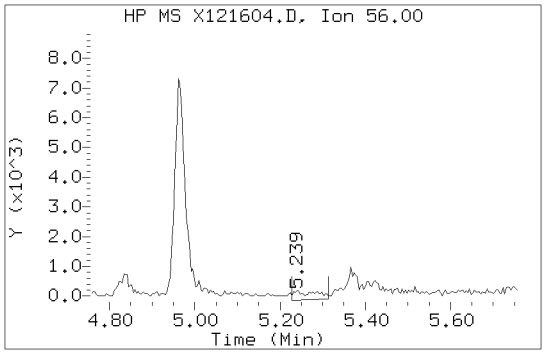
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



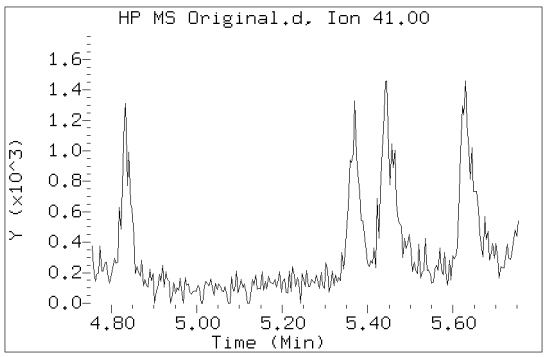
AFTER

MASS
56
AREA
1171
HEIGHT
317
27-Dec-2022
16:07
linh
pham



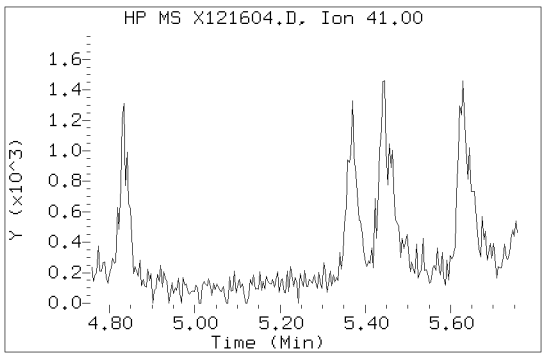
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

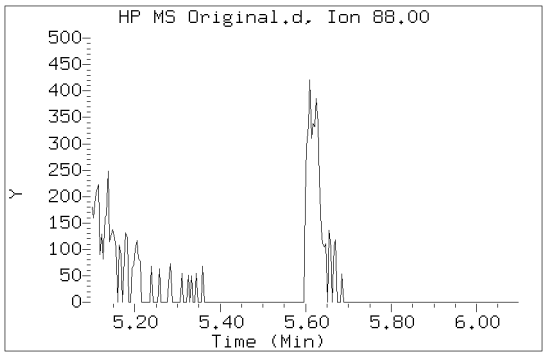


1,4-Dioxane ()

Reason Code:

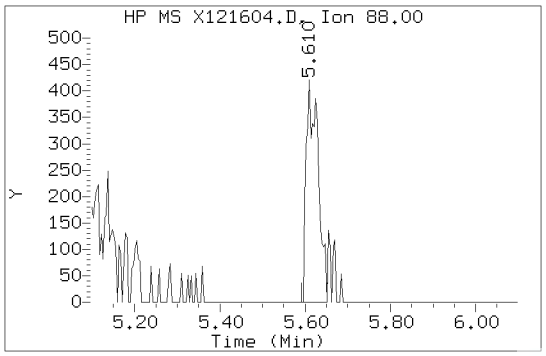
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
820
HEIGHT
421
27-Dec-2022
16:07
linh
pham



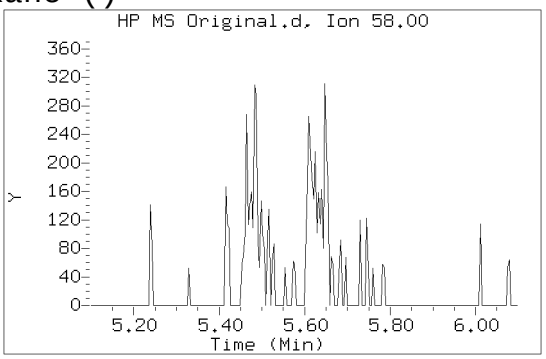
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

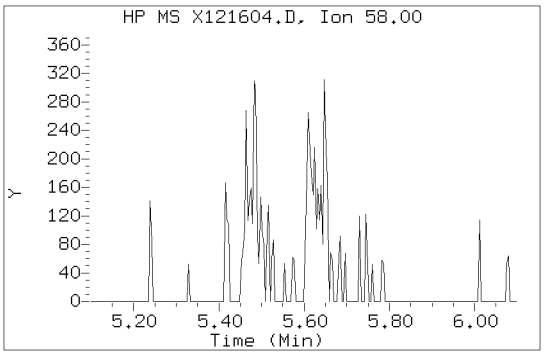
BEFORE

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

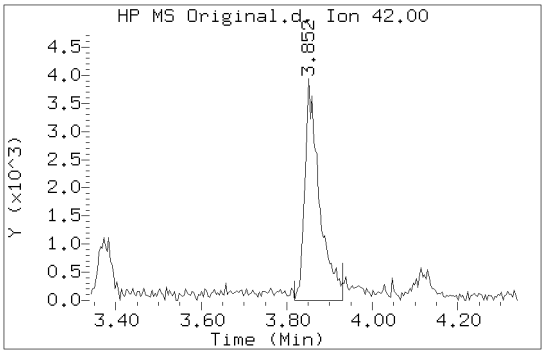


Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

MASS
42
AREA
9396
HEIGHT
3939
27-Dec-2022
16:03
linh
pham



AFTER

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16:07
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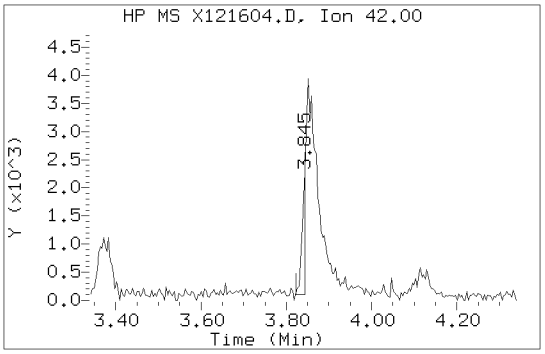

BEFORE

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71
AREA
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HEIGHT
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27-Dec-2022
16:03
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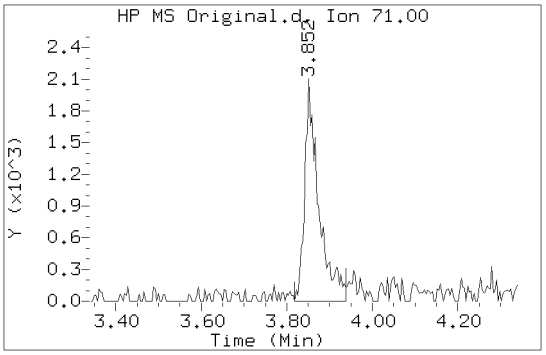

AFTER

MASS
71
AREA
4046
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2046
27-Dec-2022
16:07
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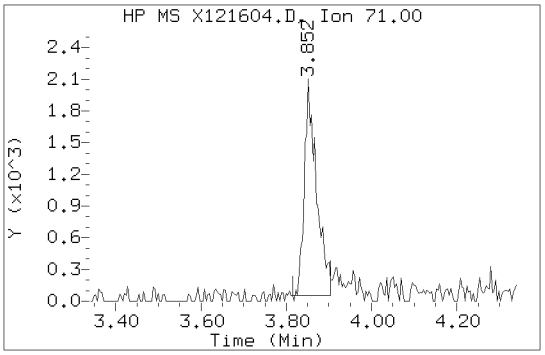
pham



Methyl Acetate (79-20-9)

Reason Code:

BEFORE

MASS
43
AREA
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HEIGHT
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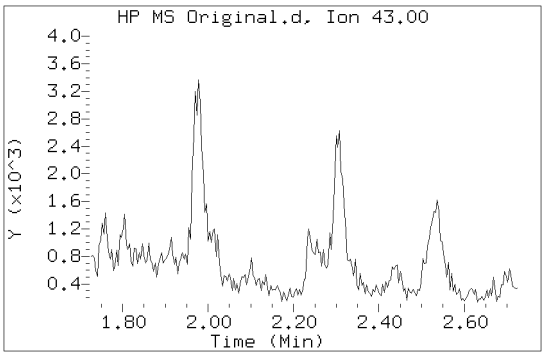
27-Dec-2022
16:03
linh
pham



AFTER

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AREA
2127
HEIGHT
968
27-Dec-2022
16:07
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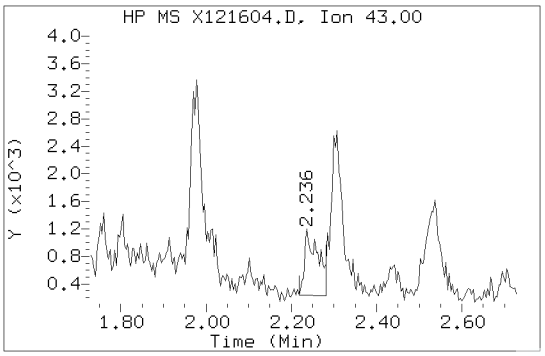
pham



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Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Methyl Acetate (79-20-9)

BEFORE

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74
AREA
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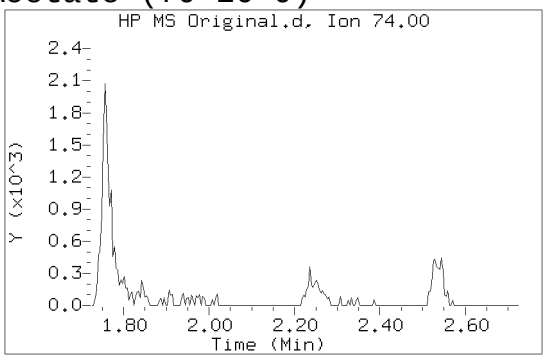
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

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74
AREA
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HEIGHT
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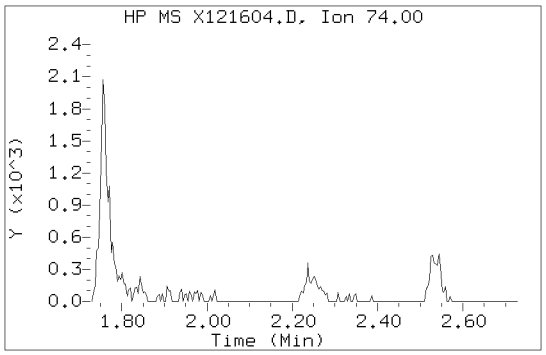
27-Dec-2022
16:07
linh
pham



Methylcyclohexane (108-87-2)

BEFORE

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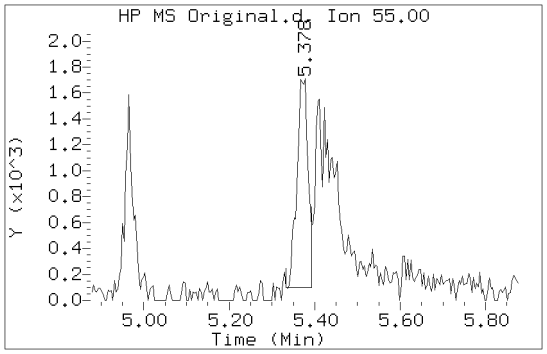
55
AREA
2998
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

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AREA
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16:07
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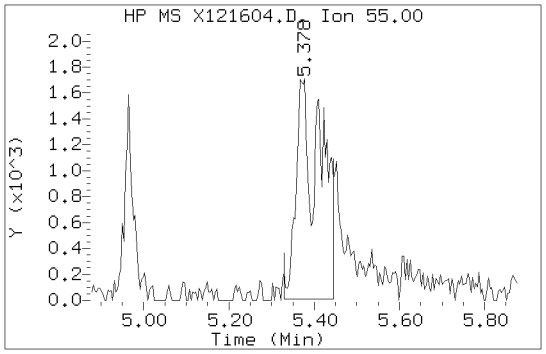
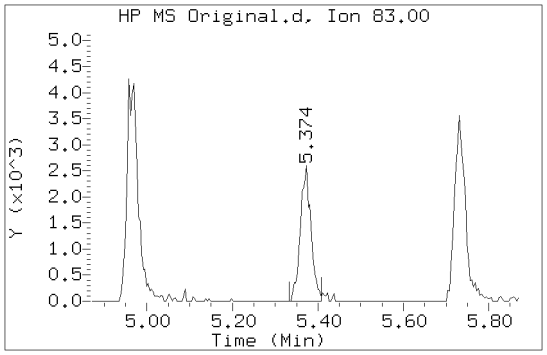


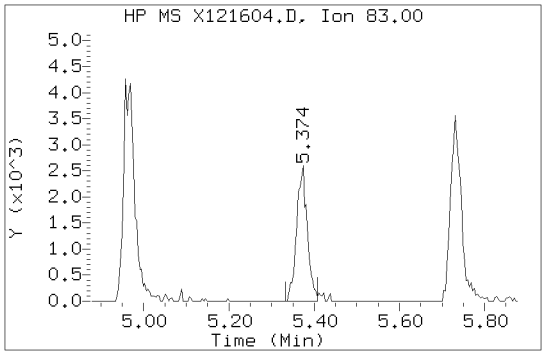
BEFORE

MASS
83
AREA
4577
HEIGHT
2601
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
4577
HEIGHT
2601
27-Dec-2022
16:07
linh
pham



Acetaldehyde (75-07-0)

BEFORE

MASS
44
AREA
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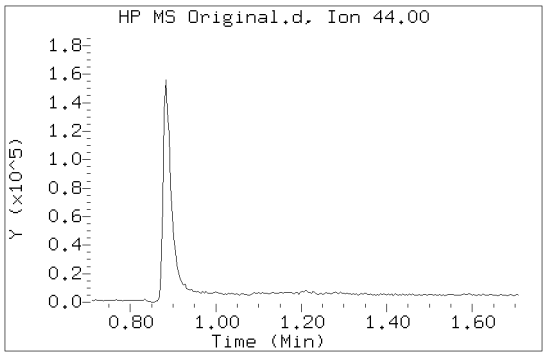
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

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HEIGHT
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16:07
linh
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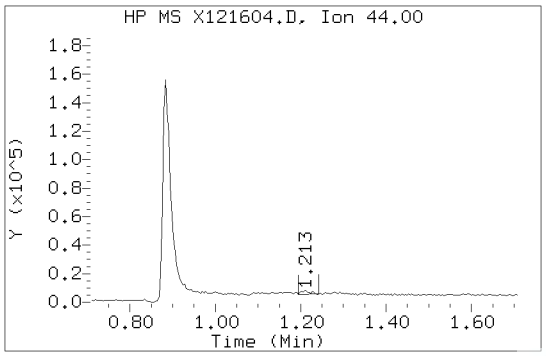

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Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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43
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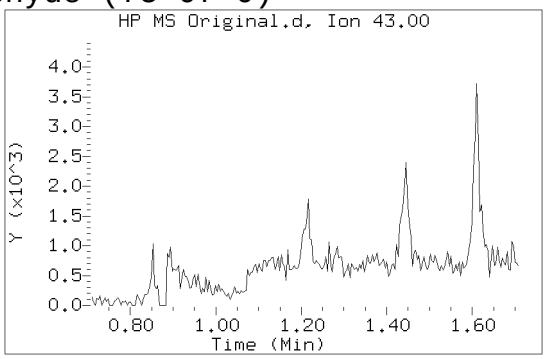
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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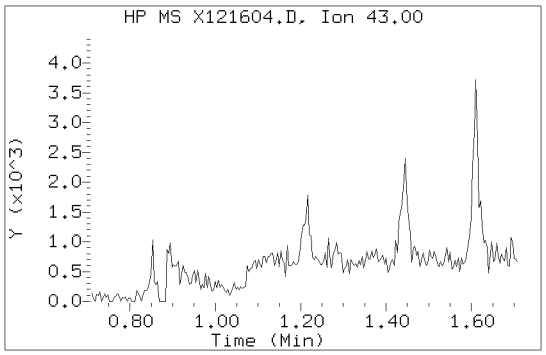
27-Dec-2022
16:07
linh
pham



BEFORE

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HEIGHT
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16:03
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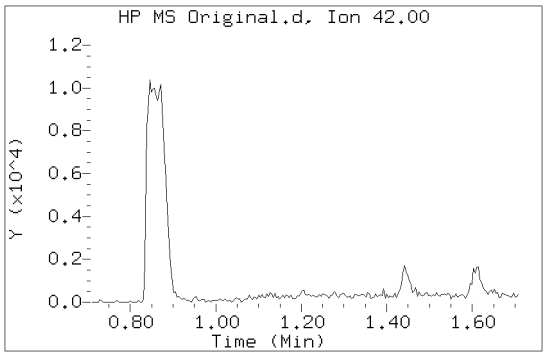

AFTER

MASS
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HEIGHT
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27-Dec-2022
16:07
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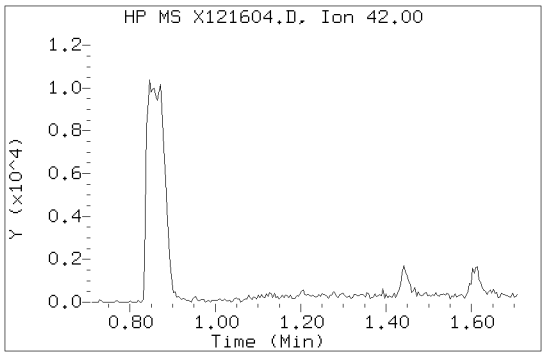
pham



4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

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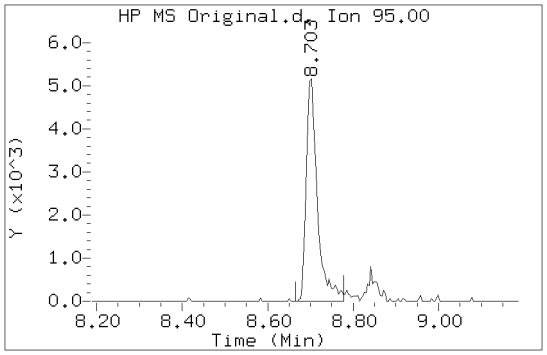
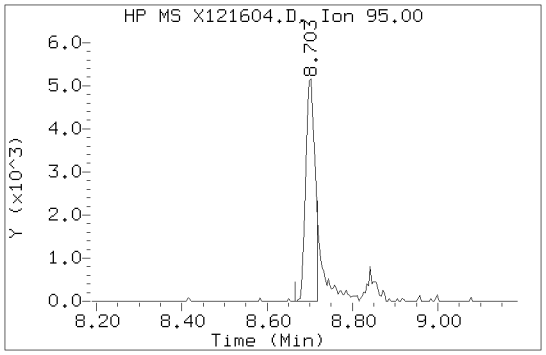
AREA
9514
HEIGHT
5159
27-Dec-2022
16:03
linh
pham



AFTER

MASS
95
AREA
7790
HEIGHT
5159
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
174
AREA
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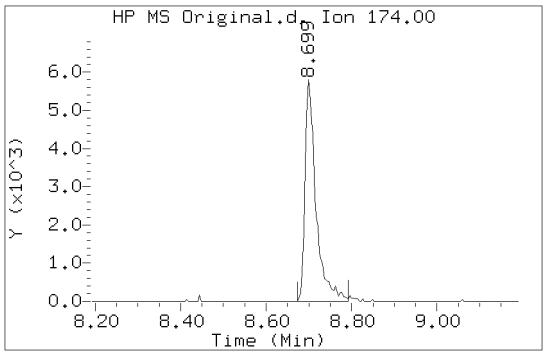
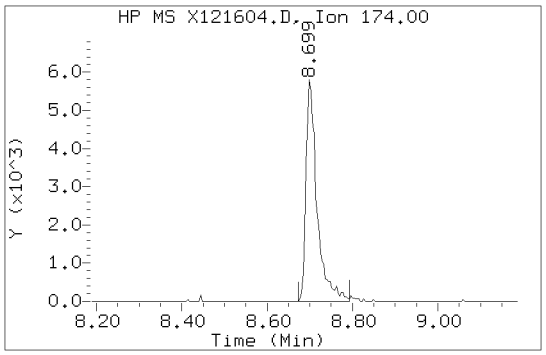
HEIGHT
5802
27-Dec-2022
16:03
linh
pham



AFTER

MASS
174
AREA
10505
HEIGHT
5802
27-Dec-2022
16:07
linh
pham



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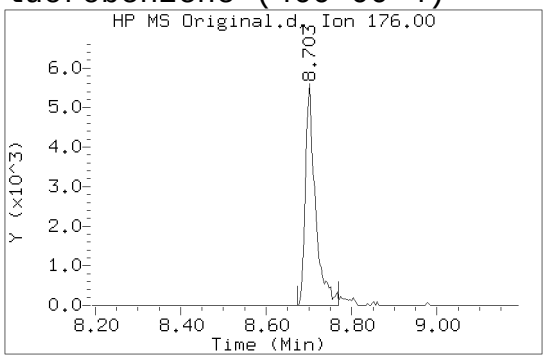
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

MASS
176
AREA
9226
HEIGHT
5603
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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27-Dec-2022
16:07
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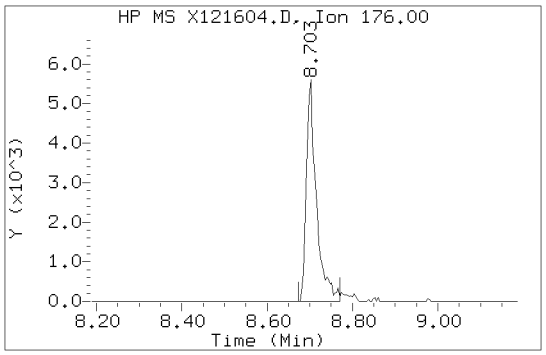


Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 16-DEC-2022 13:02
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 12:41 Cal File: X121604.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	456374	50.0000	
135 1,4-Dioxane	88	5.610	5.610	(1.343)	1409	40.0000	33.77(M)
140 1,3-Butadiene	54	1.160	1.160	(0.278)	5733	2.00000	1.83
25 Methacrylonitrile	41	3.859	3.859	(0.924)	6388	2.00000	1.97(M)
12 Isobutyl Alcohol	43	4.684	4.684	(1.121)	20629	40.0000	40.18(M)
13 Acetonitrile	39	2.198	2.198	(0.526)	7764	20.0000	18.69
14 Allyl Chloride	41	2.206	2.206	(0.528)	14911	2.00000	1.88
4 Propionitrile	54	3.675	3.675	(0.880)	8651	20.0000	18.57
136 n-Hexane	57	2.768	2.768	(0.663)	5898	2.00000	1.79
72 trans-1,4-Dichloro-2-butene	53	8.920	8.920	(1.163)	2690	2.00000	1.92(M)
194 Acetaldehyde	44	1.212	1.212	(0.290)	5661	8.00000	(M)
23 Chloroprene	53	1.771	1.771	(0.424)	3126	2.00000	2.01(M)
145 alpha-Methylstyrene	118	9.268	9.268	(0.959)	14447	2.00000	1.84
200 Dimethyl Disulfide	94	6.202	6.202	(0.808)	15964	2.00000	1.82
139 Diethyl ether	59	1.756	1.756	(0.420)	6354	2.00000	2.08
130 Ethyl Acetate	43	3.675	3.675	(0.880)	7422	2.00000	2.08(M)
40 Methyl Methacrylate	41	5.617	5.617	(1.345)	6185	2.00000	1.98
49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	6546	2.00000	2.03
132 n-Butanol	56	5.343	5.343	(1.279)	2004	40.0000	74.77(TM)
142 Tetrahydrofuran	42	3.848	3.848	(0.921)	2867	4.00000	2.04(M)

150	Allyl alcohol	57	2.768	2.768 (0.663)	5898	40.0000	33.27
166	1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	35687	2.00000	2.10

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D Page 2
Report Date: 27-Dec-2022 16:07

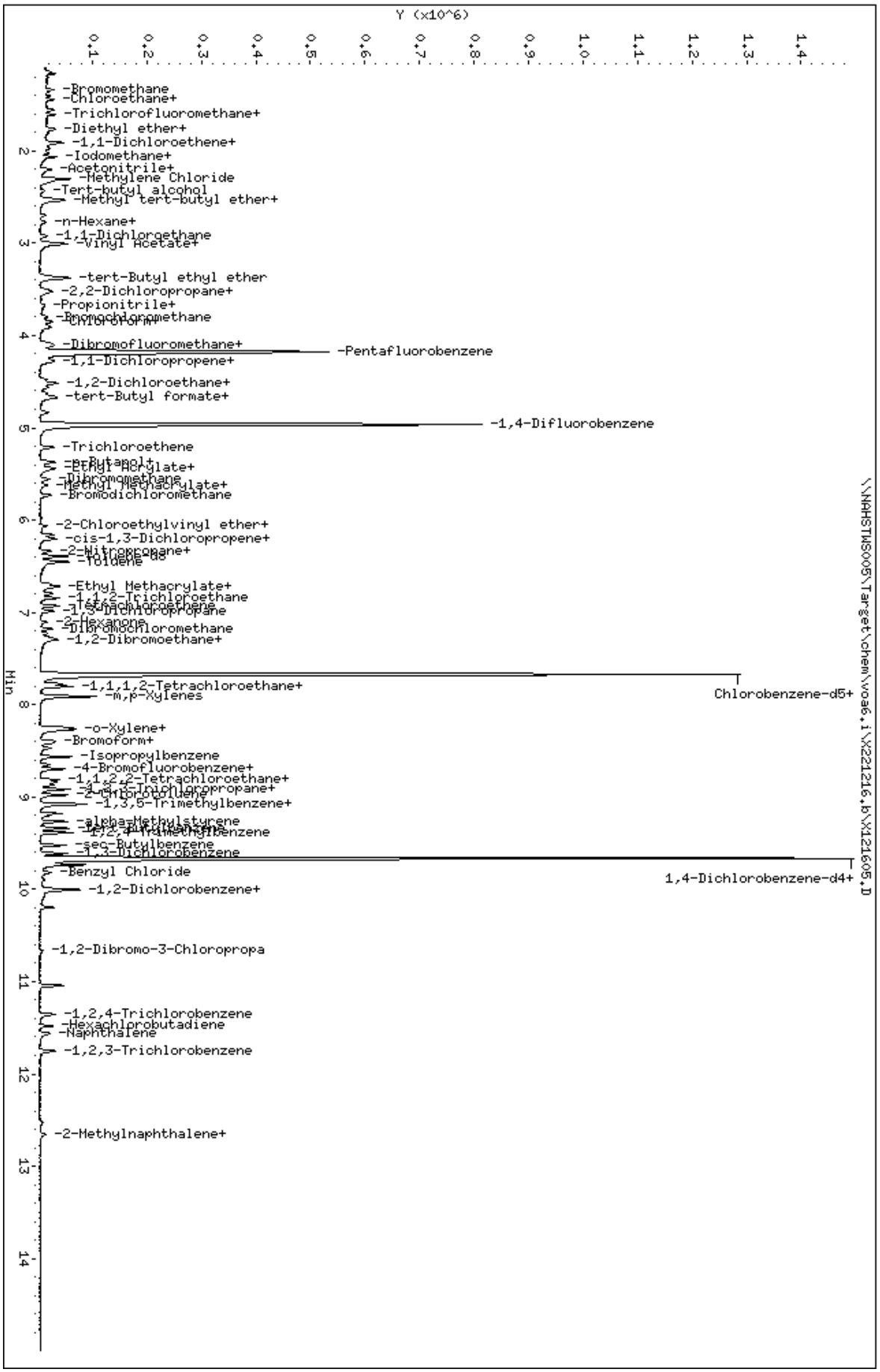
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	131 Methyl Acrylate	55	3.720	3.720	(0.891)	5443	2.00000	1.75(M)
	162 Butyl acrylate	55	8.267	8.267	(1.078)	15015	2.00000	1.77
	2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	6239	2.00000	2.33
	3 Chloromethane	50	1.077	1.077	(0.258)	8057	2.00000	4.07
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	7263	2.00000	1.82
	6 Bromomethane	94	1.340	1.340	(0.321)	5996	2.00000	3.68(M)
	7 Chloroethane	64	1.400	1.400	(0.335)	5667	2.00000	2.04(M)
	8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	10463	2.00000	1.87
	9 Acrolein	56	1.441	1.441	(0.345)	1317	4.00000	6.92(M)
	10 Acetone	43	1.973	1.973	(0.472)	7041	4.00000	5.46(M)
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	6862	2.00000	1.98
	15 Iodomethane	142	2.022	2.022	(0.484)	8702	4.00000	5.23
	16 Acrylonitrile	53	2.554	2.554	(0.611)	4557	4.00000	3.87(M)
	17 Methylene Chloride	84	2.303	2.303	(0.551)	9194	2.00000	1.93(M)
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	23231	2.00000	2.04
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	34948	4.00000	3.85
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	7113	2.00000	1.83
	21 Vinyl Acetate	43	3.008	3.008	(0.720)	38835	4.00000	3.90
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	12778	2.00000	1.87
	24 2-Butanone	43	3.604	3.604	(0.863)	5418	4.00000	6.89(M)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	11048	2.00000	1.91
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	9675	2.00000	2.05
	28 Chloroform	83	3.908	3.908	(0.935)	15581	2.00000	2.04
	29 Bromochloromethane	128	3.803	3.803	(0.910)	5134	2.00000	1.98
$	30 Dibromofluoromethane	113	4.106	4.106	(0.983)	9050	2.00000	1.90
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	10962	2.00000	1.81
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	9042	2.00000	1.86
	33 1,2-Dichloroethane	62	4.560	4.560	(0.918)	10812	2.00000	1.92
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	11092	2.00000	2.13(M)
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	9783	2.00000	2.37
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	684444	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	32394	2.00000	1.98
	38 Trichloroethene	130	5.216	5.216	(1.051)	9277	2.00000	2.00
	39 Bromodichloromethane	83	5.733	5.733	(1.155)	11961	2.00000	1.94
	41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	6648	4.00000	3.80
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	8129	2.00000	1.86(M)
	44 Dibromomethane	93	5.553	5.553	(1.119)	6110	2.00000	2.06
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14771	4.00000	4.26
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	13738	2.00000	1.90
*	47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	647809	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.833)	31289	2.00000	1.95
	50 Toluene	91	6.453	6.453	(0.841)	35620	2.00000	1.98
	51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	10969	2.00000	1.83
	52 2-Hexanone	43	7.105	7.105	(0.926)	9314	4.00000	3.95
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	7537	2.00000	2.09
	54 1,3-Dichloropropane	76	6.989	6.989	(0.911)	14049	2.00000	1.98
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	10210	2.00000	1.96
	56 Tetrachloroethene	164	6.929	6.929	(0.903)	7331	2.00000	1.97
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	8477	2.00000	1.88
	58 1-Chlorohexane	55	7.697	7.697	(1.550)	5855	2.00000	1.77(MH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	24558	2.00000	1.93
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.013)	9378	2.00000	1.98

61 Ethylbenzene	106	7.802	7.802 (1.017)	11791	2.00000	1.97
62 m,p-Xylenes	106	7.911	7.911 (1.031)	29170	4.00000	3.78

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.249	8.249	(1.075)	14764	2.00000	1.93
	64 Styrene	104	8.271	8.271	(1.078)	22967	2.00000	1.80
	66 Bromoform	173	8.417	8.417	(1.097)	6949	2.00000	1.93(T)
	67 Isopropylbenzene	105	8.563	8.563	(1.116)	32641	2.00000	1.87
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	11741	2.00000	2.08
$	69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	13631	2.00000	2.33
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	352851	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	7514	2.00000	1.91
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	34981	2.00000	1.78
	74 Bromobenzene	156	8.815	8.815	(0.912)	11721	2.00000	2.02
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	27917	2.00000	1.93
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	26853	2.00000	2.09
	77 4-Chlorotoluene	91	9.077	9.077	(0.939)	28173	2.00000	1.92
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	22104	2.00000	1.87
	79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	28377	2.00000	1.86
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	27643	2.00000	1.75
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	24966	2.00000	1.77
	83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	18708	2.00000	1.94
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	20552	2.00000	1.96
	86 Benzyl Chloride	91	9.819	9.819	(1.280)	12783	2.00000	3.88
	87 n-Butylbenzene	91	10.003	10.003	(1.035)	19853	2.00000	3.18(M)
	88 1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	18921	2.00000	1.91
	89 1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	1619	2.00000	1.88(M)
	90 1,2,4-Trichlorobenzene	180	11.352	11.352	(1.175)	11764	2.00000	1.88(M)
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	3970	2.00000	1.39
	92 Naphthalene	128	11.559	11.559	(1.196)	26250	2.00000	1.84(M)
	93 1,2,3-Trichlorobenzene	180	11.750	11.750	(1.216)	11288	2.00000	1.88
M	94 1,2-Dichloroethylene (total)	96				16788	4.00000	
M	95 Xylenes (total)	106				43934	6.00000	
	141 Cyclohexane	56	4.125	4.125	(0.987)	7375	2.00000	2.82(H)
	138 Freon TF	101	1.917	1.917	(0.459)	6025	2.00000	1.79
	147 Methylcyclohexane	55	5.373	5.373	(1.082)	16016	2.00000	1.91(M)
	146 Methyl Acetate	43	2.247	2.247	(0.538)	4149	2.00000	2.02
	148 Tert-Butyl alcohol	59	2.434	2.434	(0.583)	12015	40.0000	38.02(a)
	149 Isopropyl Alcohol	45	2.101	2.101	(0.503)	5607	40.0000	33.97

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



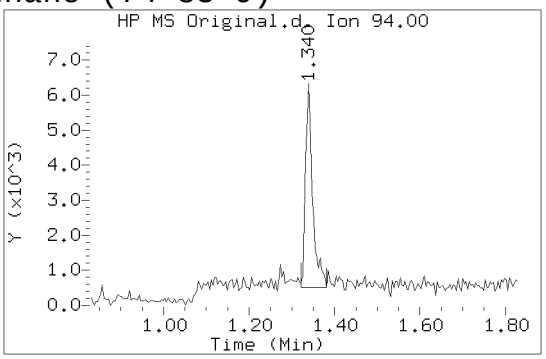
Data File: \\NAHSTWS005\Target\chem\voa6,i\X221216,b\X121605,D
Date : 16-DEC-2022 13:02
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

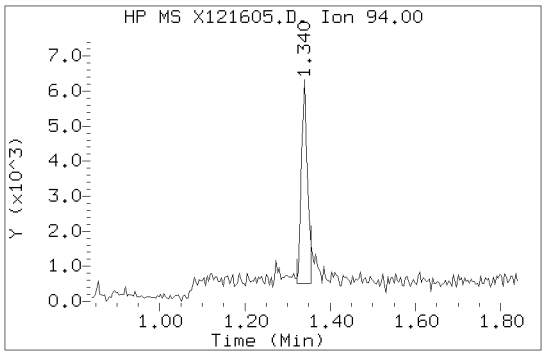
Bromomethane (74-83-9)

BEFORE
MASS
94
AREA
6762
HEIGHT
5808
27-Dec-2022
16:03
linh
pham

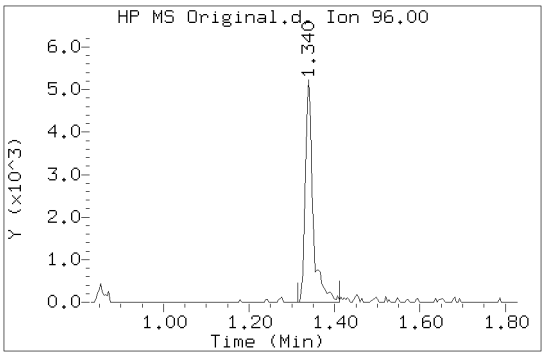


Reason Code:

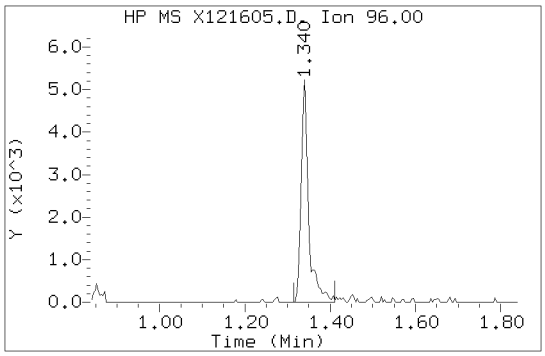
AFTER
MASS
94
AREA
5996
HEIGHT
5808
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
96
AREA
6661
HEIGHT
5227
27-Dec-2022
16:03
linh
pham



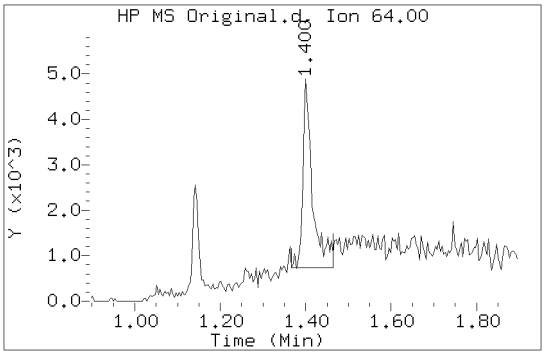
AFTER
MASS
96
AREA
6661
HEIGHT
5227
27-Dec-2022
16:07
linh
pham



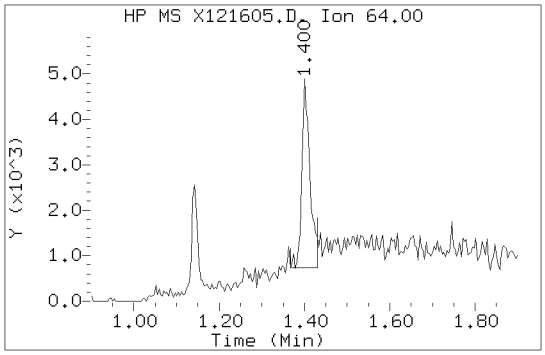
Chloroethane (75-00-3)

Reason Code:

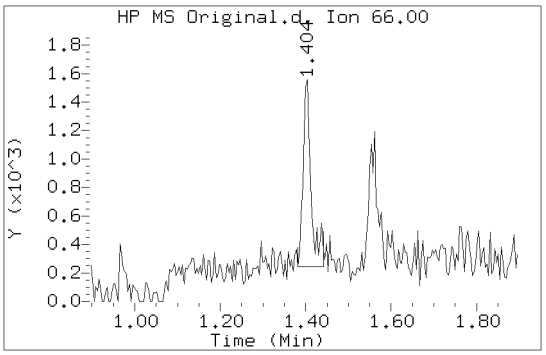
BEFORE
MASS
64
AREA
6641
HEIGHT
4162
27-Dec-2022
16:03
linh
pham



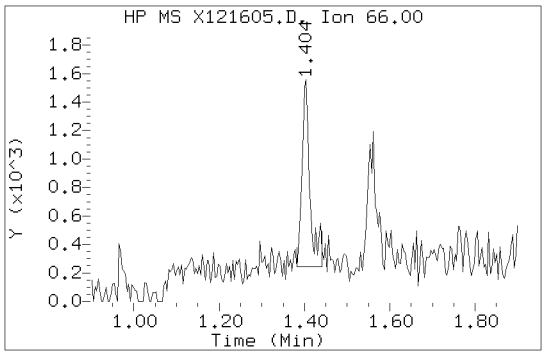
AFTER
MASS
64
AREA
5667
HEIGHT
4162
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
66
AREA
1745
HEIGHT
1315
27-Dec-2022
16:03
linh
pham



AFTER
MASS
66
AREA
1745
HEIGHT
1315
27-Dec-2022
16:07
linh
pham



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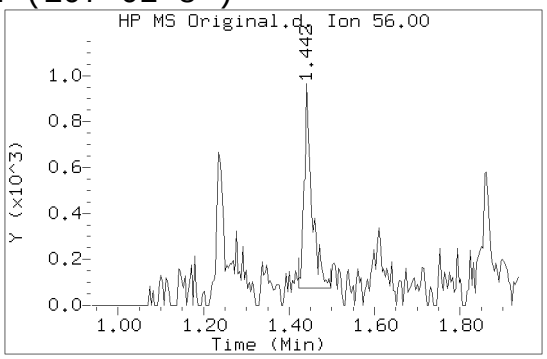
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

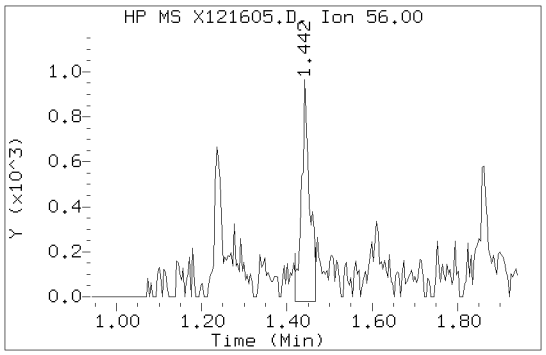
BEFORE

MASS
56
AREA
1122
HEIGHT
890
27-Dec-2022
16:03
linh
pham



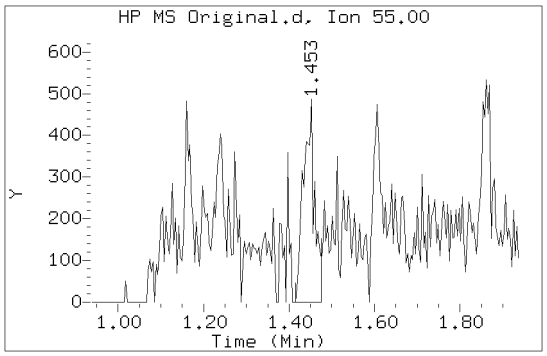
AFTER

MASS
56
AREA
1317
HEIGHT
985
27-Dec-2022
16:07
linh
pham



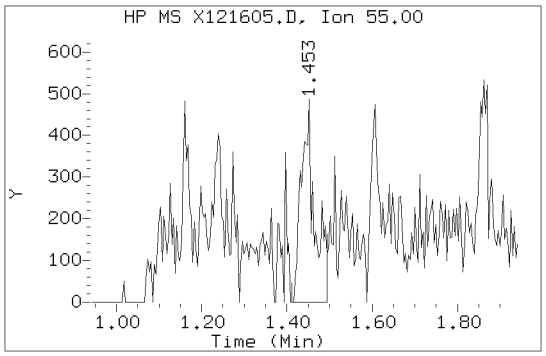
BEFORE

MASS
55
AREA
885
HEIGHT
487
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
1067
HEIGHT
487
27-Dec-2022
16:07
linh
pham

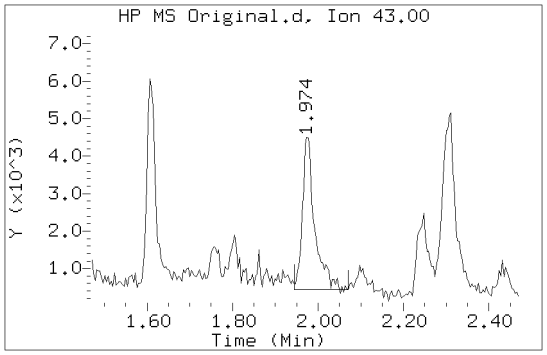


Acetone (67-64-1)

Reason Code:

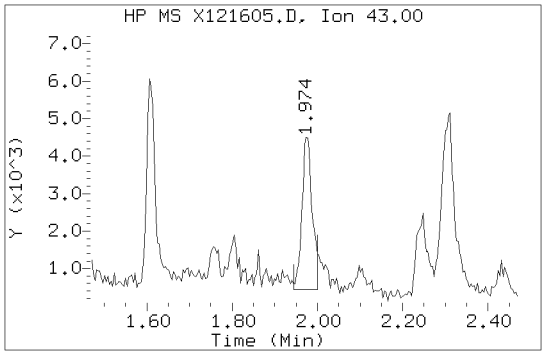
BEFORE

MASS
43
AREA
8369
HEIGHT
4066
27-Dec-2022
16:03
linh
pham



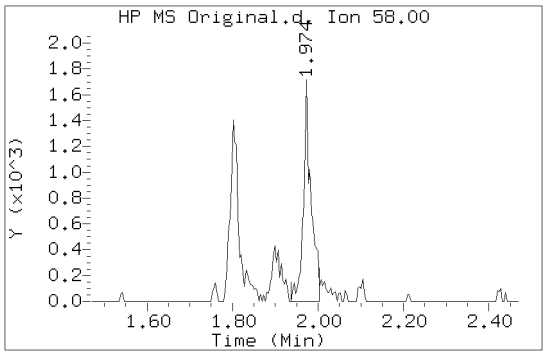
AFTER

MASS
43
AREA
7041
HEIGHT
4066
27-Dec-2022
16:07
linh
pham



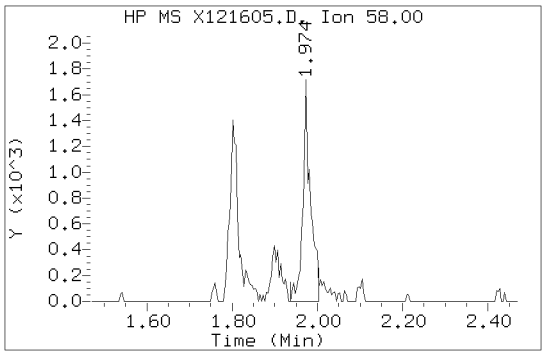
BEFORE

MASS
58
AREA
2165
HEIGHT
1717
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
2165
HEIGHT
1717
27-Dec-2022
16:07
linh
pham

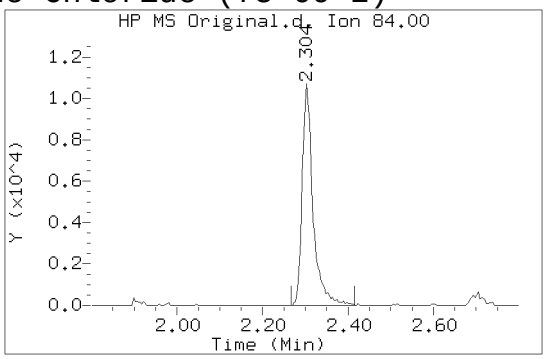


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

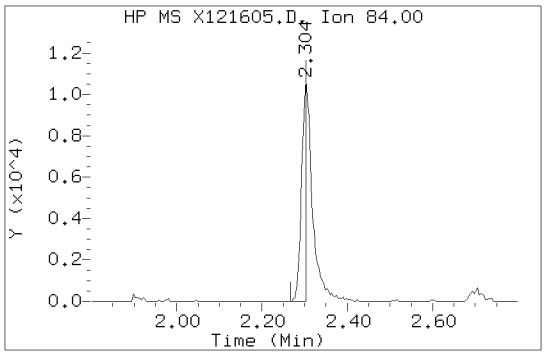
Methylene Chloride (75-09-2)

Reason Code:

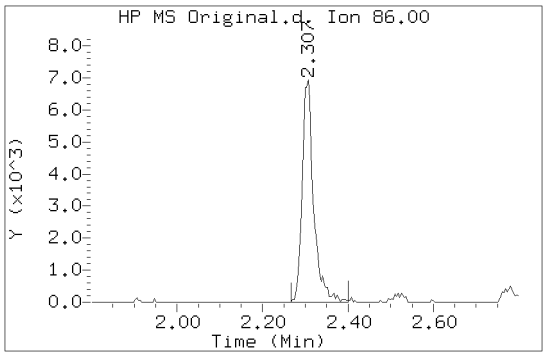
BEFORE
MASS
84
AREA
19299
HEIGHT
10710
27-Dec-2022
16:03
linh
pham



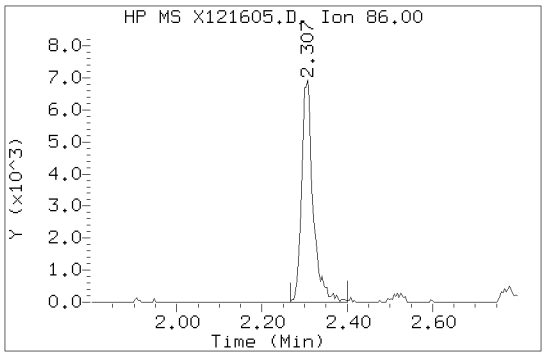
AFTER
MASS
84
AREA
9194
HEIGHT
10710
27-Dec-2022
16:07
linh
pham



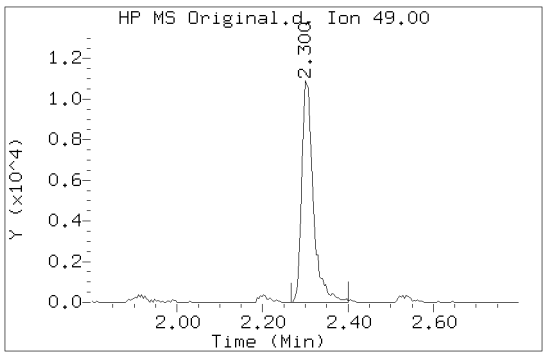
BEFORE
MASS
86
AREA
13231
HEIGHT
6936
27-Dec-2022
16:03
linh
pham



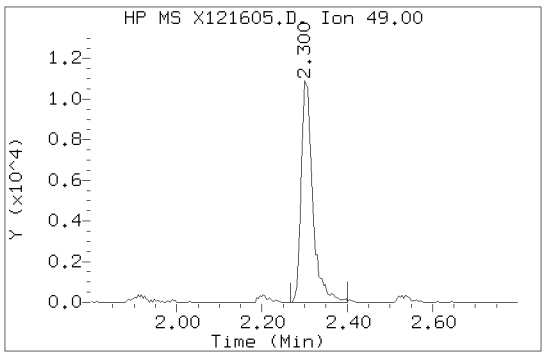
AFTER
MASS
86
AREA
13231
HEIGHT
6936
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
49
AREA
21067
HEIGHT
10905
27-Dec-2022
16:03
linh
pham



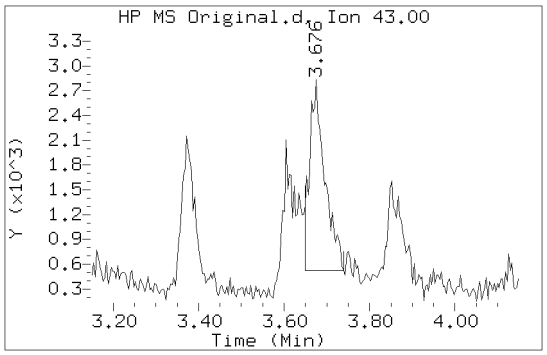
AFTER
MASS
49
AREA
21067
HEIGHT
10905
27-Dec-2022
16:07
linh
pham



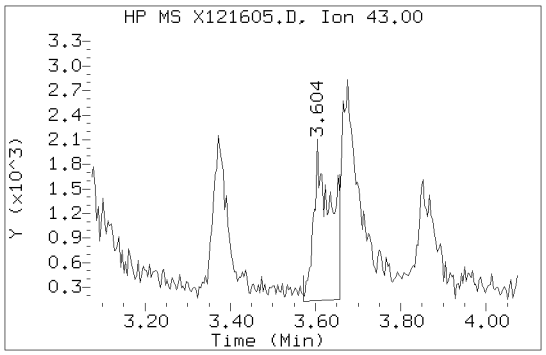
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
5778
HEIGHT
2307
27-Dec-2022
16:03
linh
pham



AFTER
MASS
43
AREA
5418
HEIGHT
1969
27-Dec-2022
16:07
linh
pham



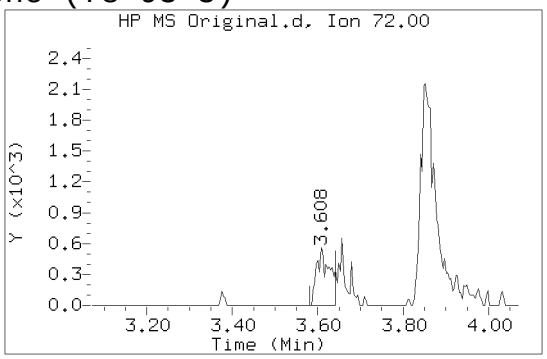
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
72
AREA
1209
HEIGHT
563
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
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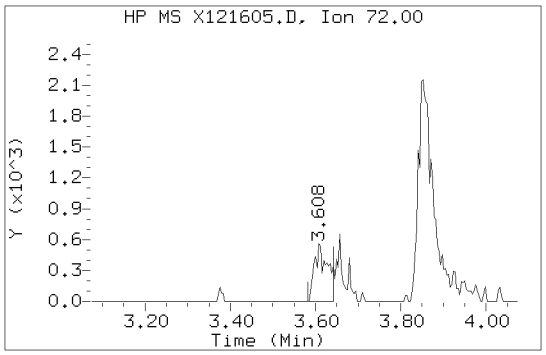
HEIGHT
563
27-Dec-2022
16:07
linh
pham

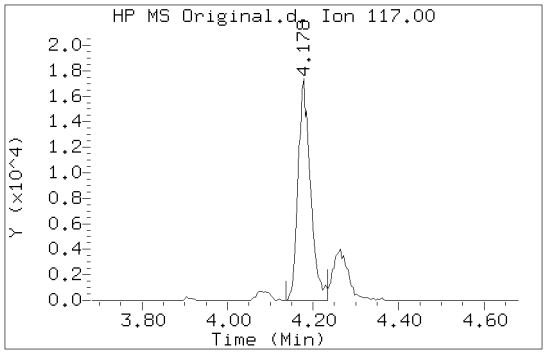


Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

MASS
117
AREA
35555
HEIGHT
17376
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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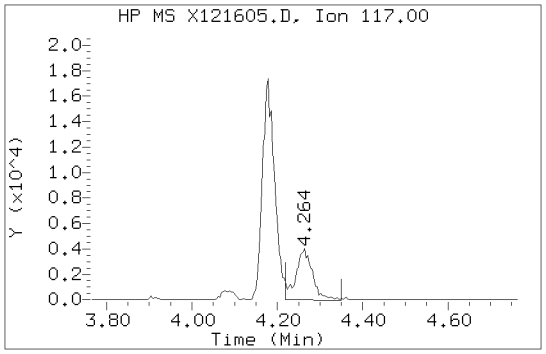
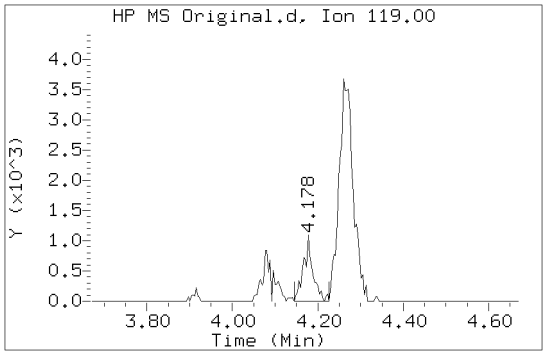
AREA
11092
HEIGHT
4036
27-Dec-2022
16:07
linh
pham



BEFORE

MASS
119
AREA
1692
HEIGHT
1100
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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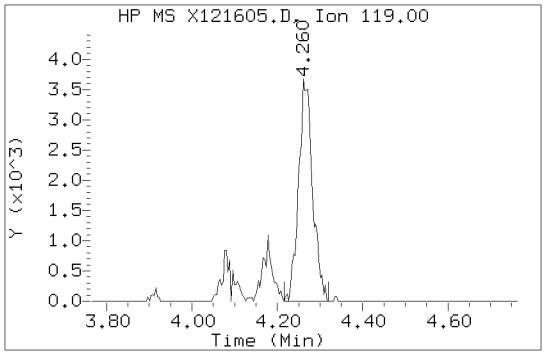
AREA
8494
HEIGHT
3676
27-Dec-2022
16:07
linh
pham

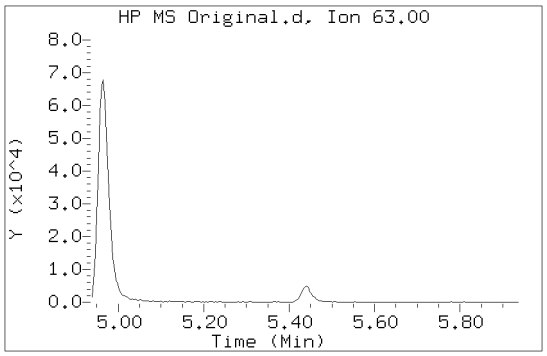


1,2-Dichloropropane (78-87-5)

Reason Code:

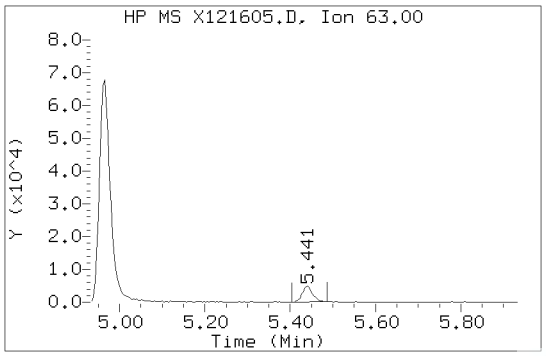
BEFORE

MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
63
AREA
8129
HEIGHT
4705
27-Dec-2022
16:07
linh
pham



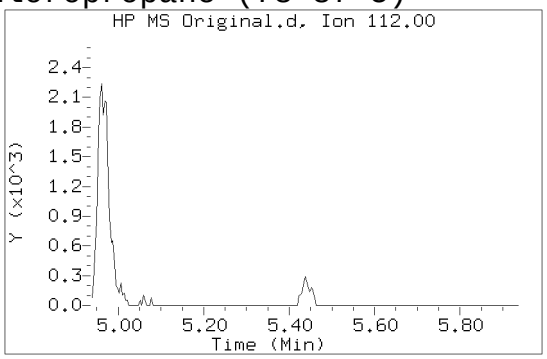
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichloropropane (78-87-5)

Reason Code:

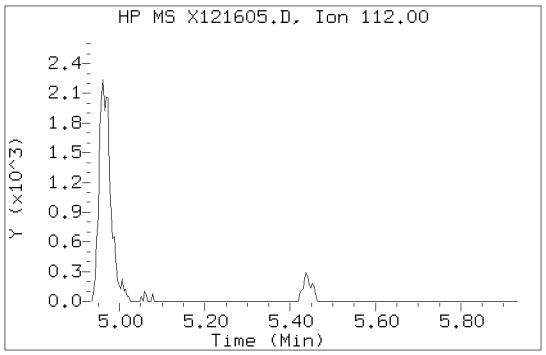
BEFORE

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

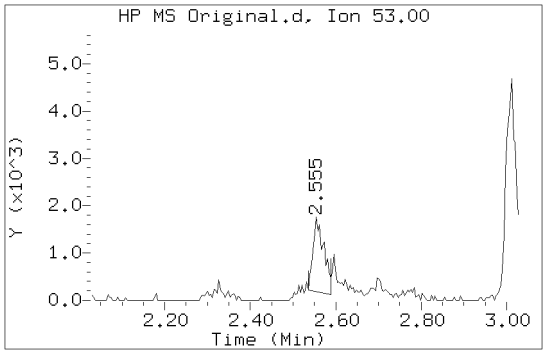


Acrylonitrile (107-13-1)

Reason Code:

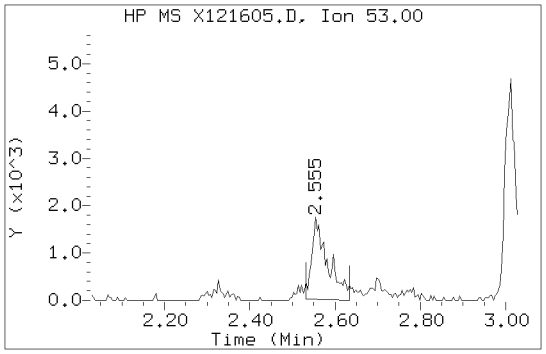
BEFORE

MASS
53
AREA
2810
HEIGHT
1577
27-Dec-2022
16:03
linh
pham



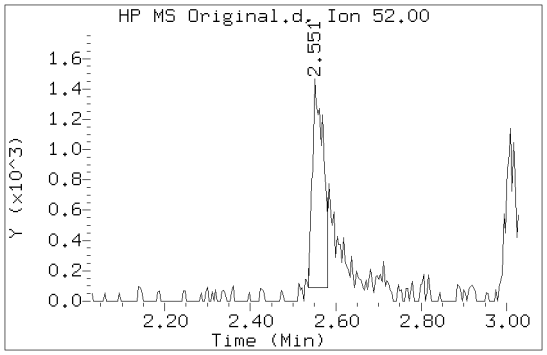
AFTER

MASS
53
AREA
4557
HEIGHT
1735
27-Dec-2022
16:07
linh
pham



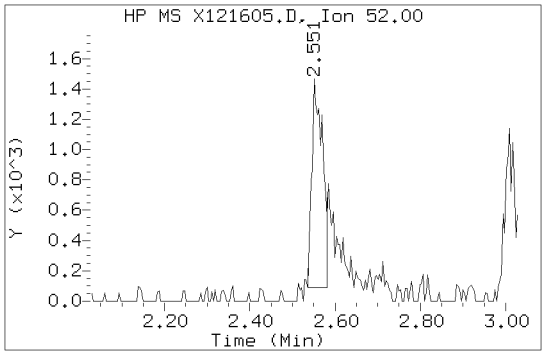
BEFORE

MASS
52
AREA
2408
HEIGHT
1379
27-Dec-2022
16:03
linh
pham



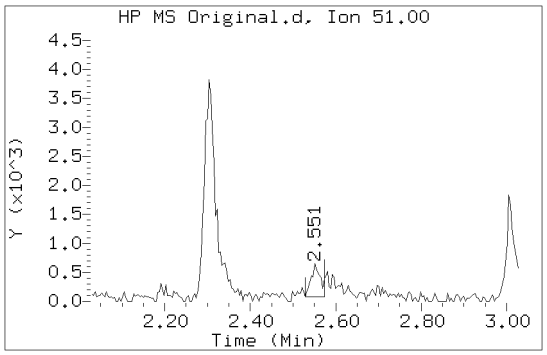
AFTER

MASS
52
AREA
2408
HEIGHT
1379
27-Dec-2022
16:07
linh
pham



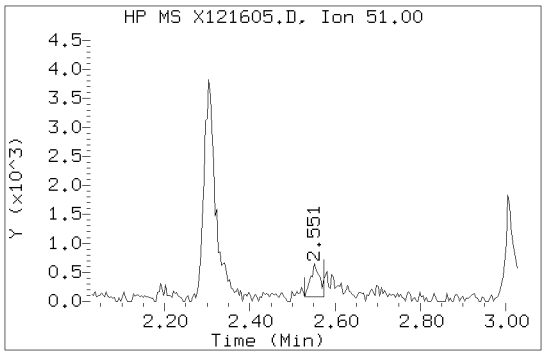
BEFORE

MASS
51
AREA
876
HEIGHT
575
27-Dec-2022
16:03
linh
pham



AFTER

MASS
51
AREA
876
HEIGHT
575
27-Dec-2022
16:07
linh
pham

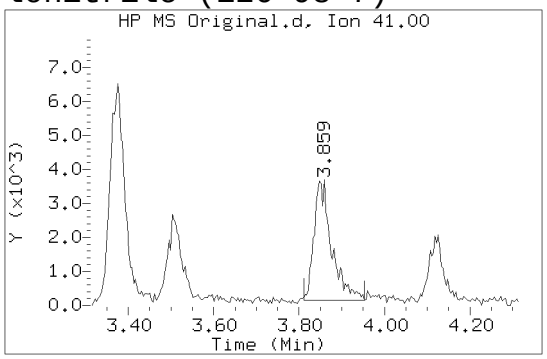


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

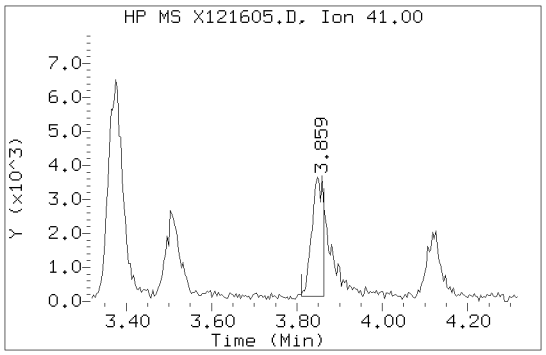
Methacrylonitrile (126-98-7)

Reason Code:

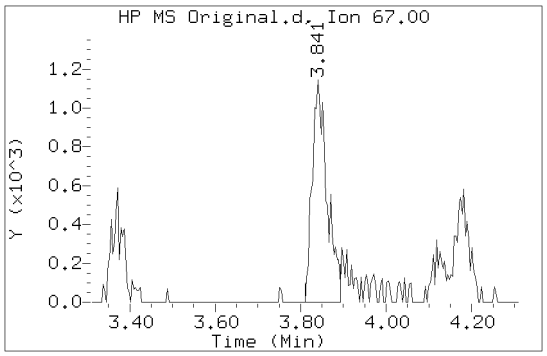
BEFORE
MASS
41
AREA
10013
HEIGHT
3544
27-Dec-2022
16:03
linh
pham



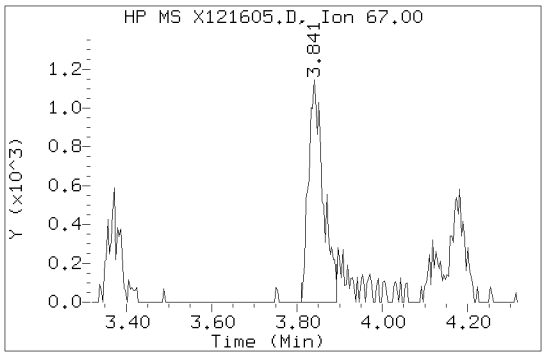
AFTER
MASS
41
AREA
6388
HEIGHT
3544
27-Dec-2022
16:07
linh
pham



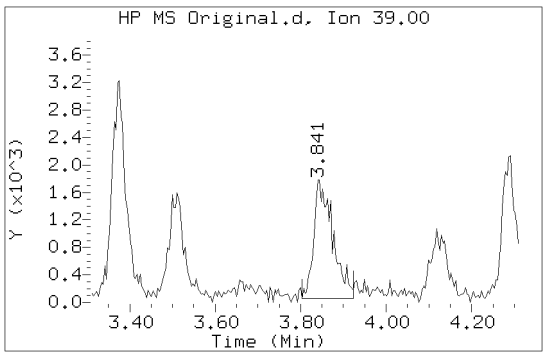
BEFORE
MASS
67
AREA
2751
HEIGHT
1145
27-Dec-2022
16:03
linh
pham



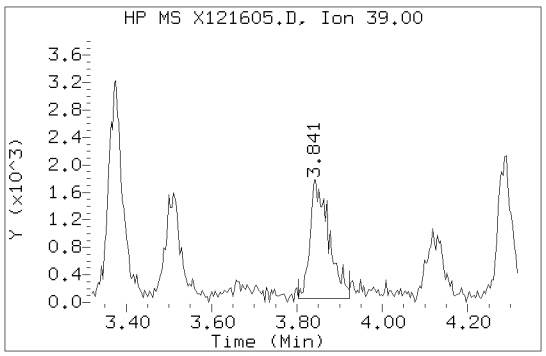
AFTER
MASS
67
AREA
2751
HEIGHT
1145
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
39
AREA
5310
HEIGHT
1724
27-Dec-2022
16:03
linh
pham



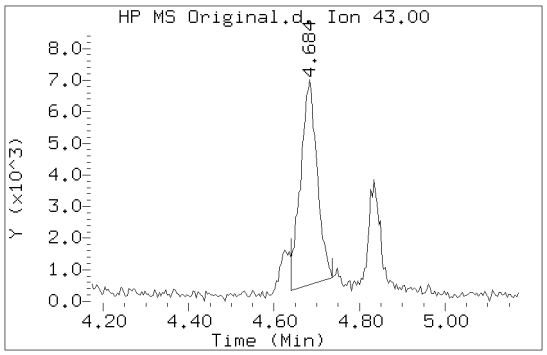
AFTER
MASS
39
AREA
5310
HEIGHT
1724
27-Dec-2022
16:07
linh
pham



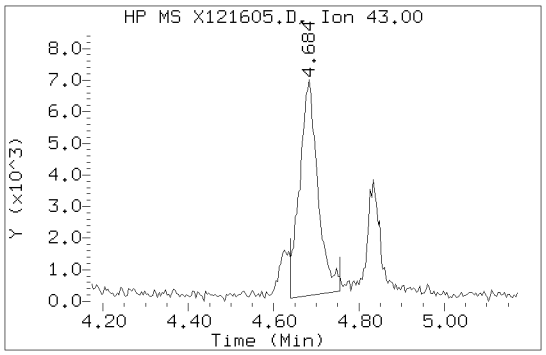
Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
43
AREA
17811
HEIGHT
6479
27-Dec-2022
16:03
linh
pham



AFTER
MASS
43
AREA
20629
HEIGHT
6832
27-Dec-2022
16:07
linh
pham



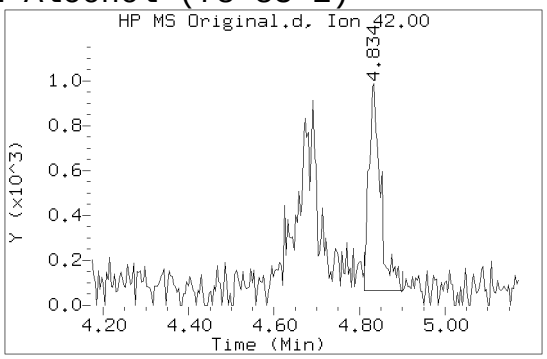
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

Reason Code:

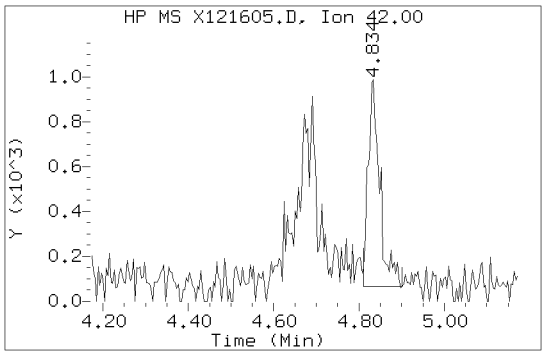
BEFORE

MASS
42
AREA
1728
HEIGHT
920
27-Dec-2022
16:03
linh
pham



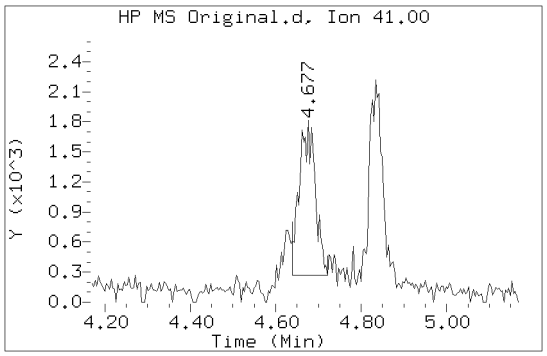
AFTER

MASS
42
AREA
1728
HEIGHT
920
27-Dec-2022
16:07
linh
pham



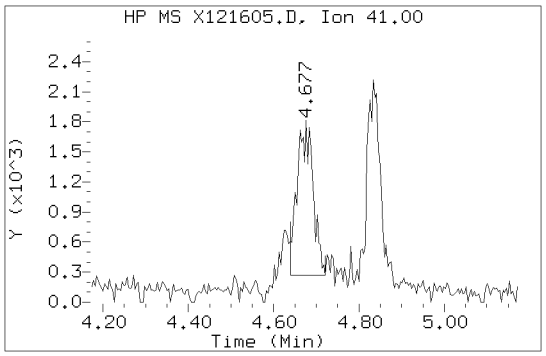
BEFORE

MASS
41
AREA
4067
HEIGHT
1547
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
4067
HEIGHT
1547
27-Dec-2022
16:07
linh
pham

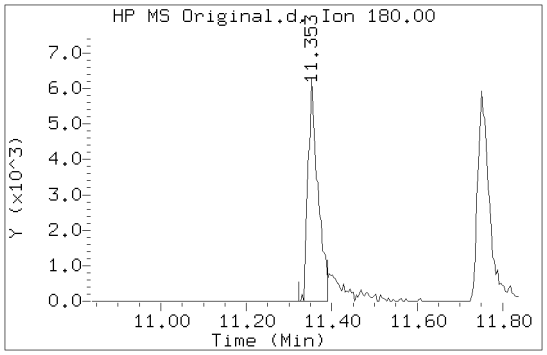


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

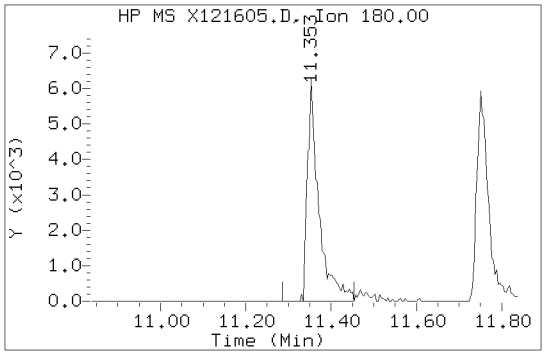
BEFORE

MASS
180
AREA
10131
HEIGHT
6269
27-Dec-2022
16:03
linh
pham



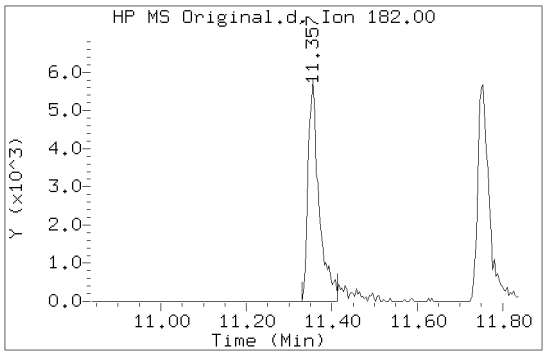
AFTER

MASS
180
AREA
11764
HEIGHT
6269
27-Dec-2022
16:07
linh
pham



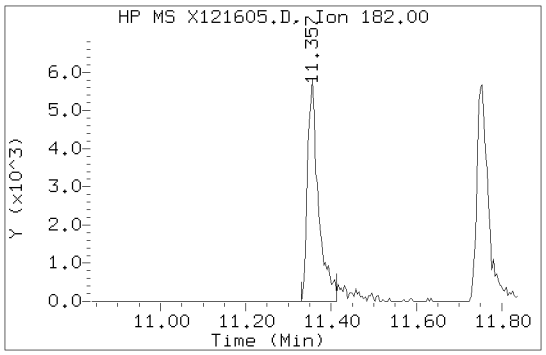
BEFORE

MASS
182
AREA
10317
HEIGHT
5807
27-Dec-2022
16:03
linh
pham



AFTER

MASS
182
AREA
10317
HEIGHT
5807
27-Dec-2022
16:07
linh
pham

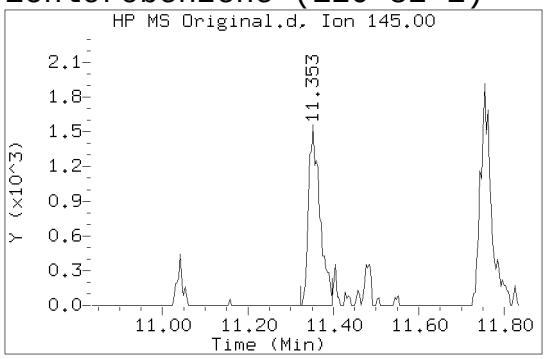


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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

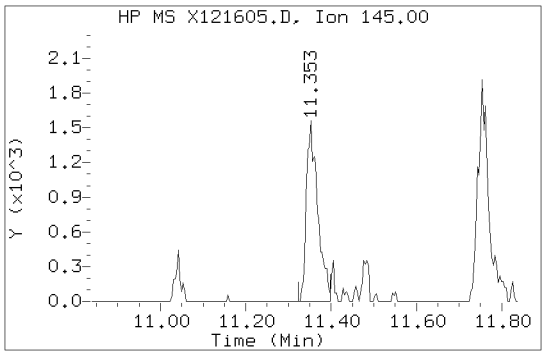
BEFORE

MASS
145
AREA
2887
HEIGHT
1565
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
2887
HEIGHT
1565
27-Dec-2022
16:07
linh
pham

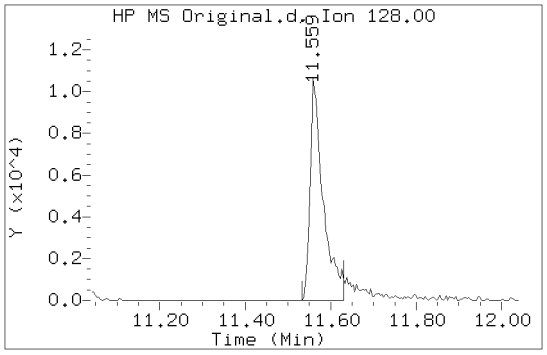


Reason Code:

Naphthalene (91-20-3)

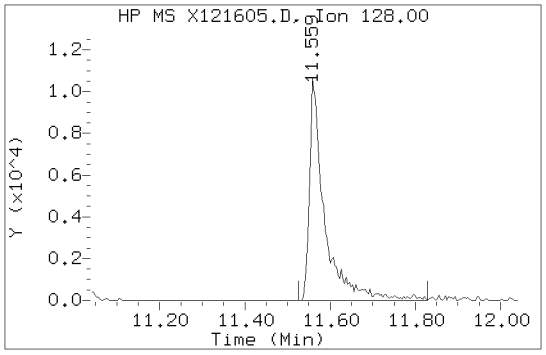
BEFORE

MASS
128
AREA
22581
HEIGHT
10616
27-Dec-2022
16:03
linh
pham



AFTER

MASS
128
AREA
26250
HEIGHT
10616
27-Dec-2022
16:07
linh
pham

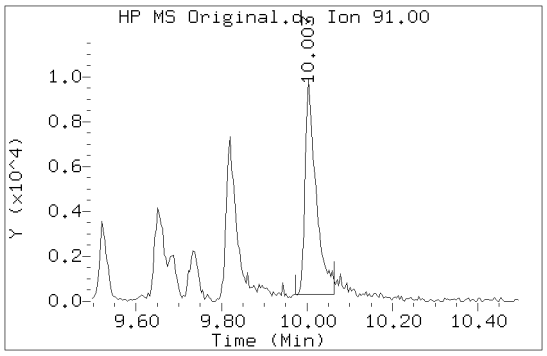


Reason Code:

n-Butylbenzene (104-51-8)

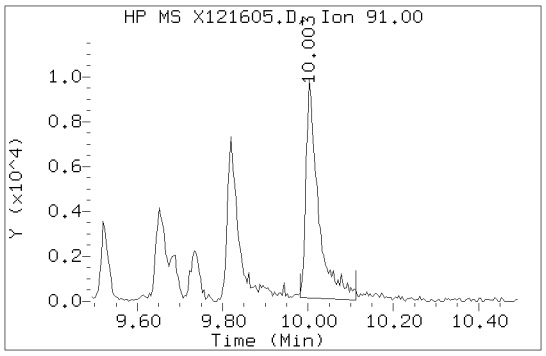
BEFORE

MASS
91
AREA
17181
HEIGHT
9558
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
19853
HEIGHT
9720
27-Dec-2022
16:07
linh
pham



Reason Code:

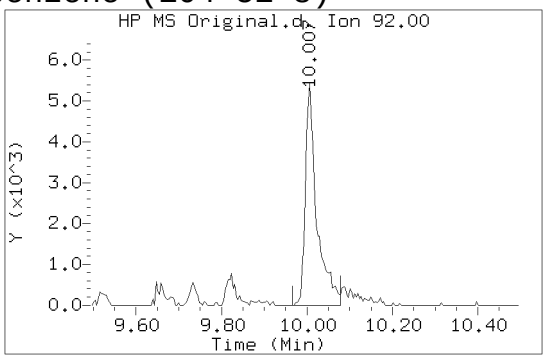
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)

Reason Code:

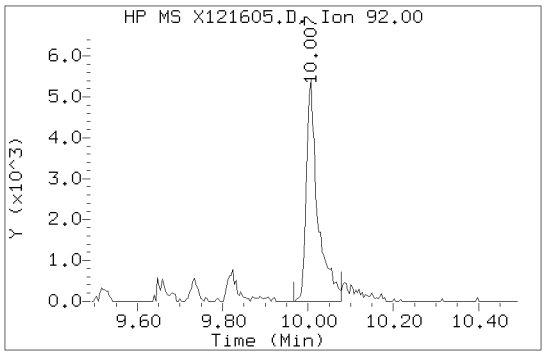
BEFORE

MASS
92
AREA
10185
HEIGHT
5422
27-Dec-2022
16:03
linh
pham



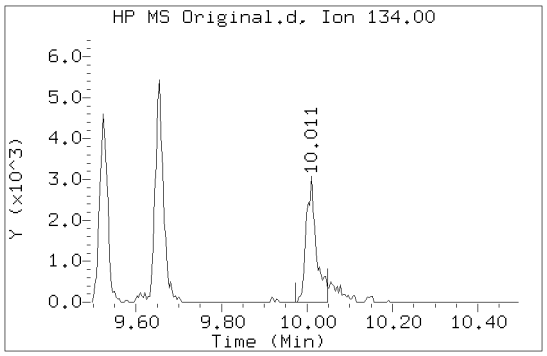
AFTER

MASS
92
AREA
10185
HEIGHT
5422
27-Dec-2022
16:07
linh
pham



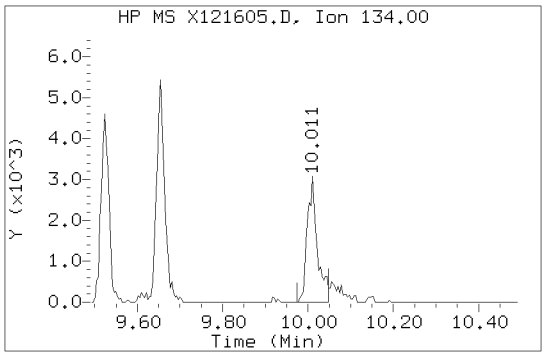
BEFORE

MASS
134
AREA
5059
HEIGHT
3076
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
5059
HEIGHT
3076
27-Dec-2022
16:07
linh
pham

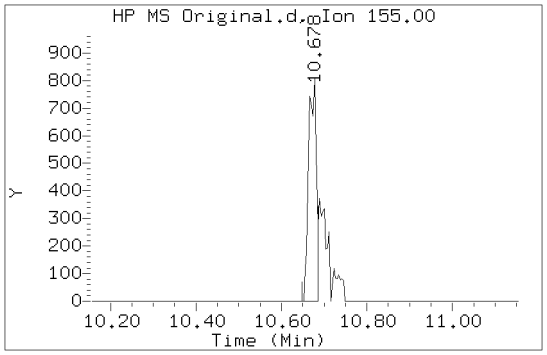


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

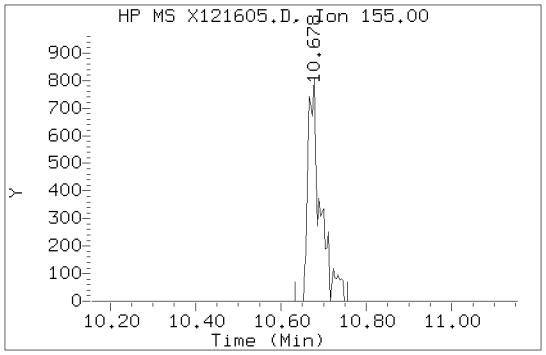
BEFORE

MASS
155
AREA
1026
HEIGHT
806
27-Dec-2022
16:03
linh
pham



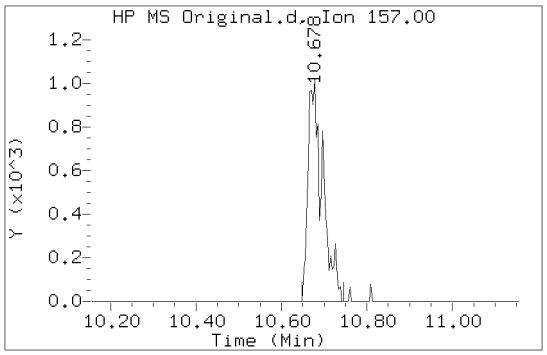
AFTER

MASS
155
AREA
1619
HEIGHT
806
27-Dec-2022
16:07
linh
pham



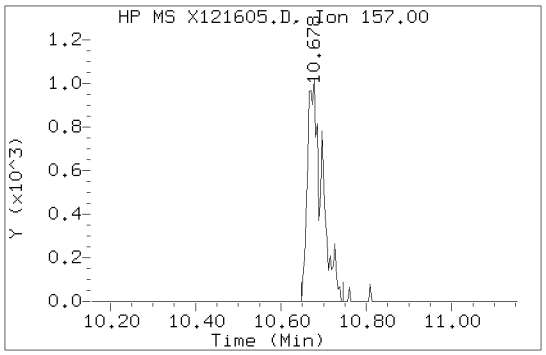
BEFORE

MASS
157
AREA
2422
HEIGHT
1016
27-Dec-2022
16:03
linh
pham



AFTER

MASS
157
AREA
2422
HEIGHT
1016
27-Dec-2022
16:07
linh
pham



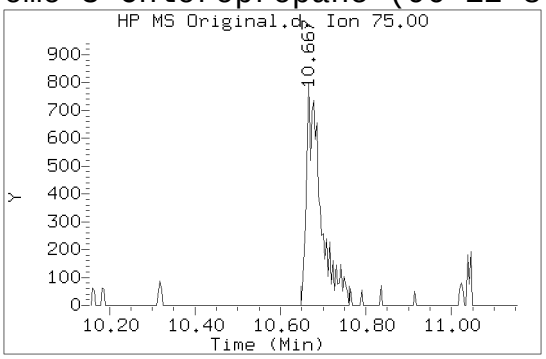
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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

Reason Code:

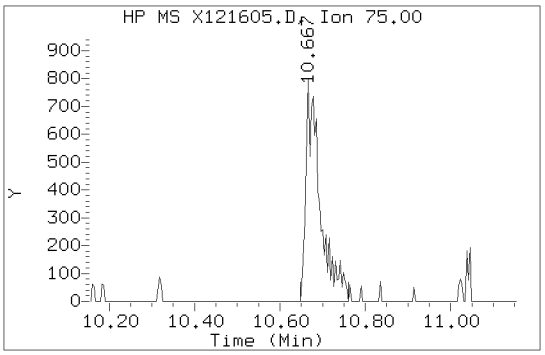
BEFORE

MASS
75
AREA
1843
HEIGHT
796
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
1843
HEIGHT
796
27-Dec-2022
16:07
linh
pham

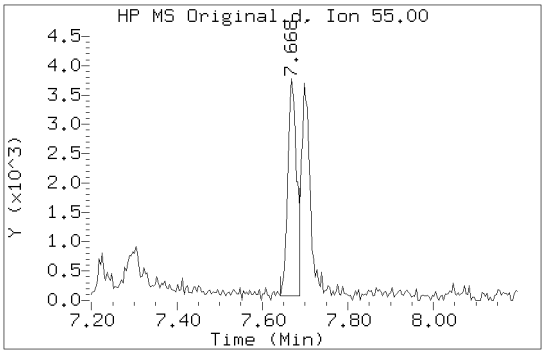


1-Chlorohexane (544-10-5)

Reason Code:

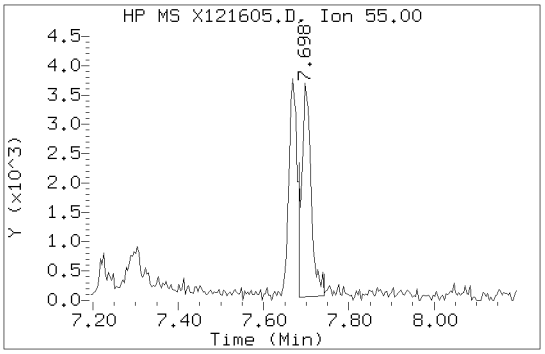
BEFORE

MASS
55
AREA
5357
HEIGHT
3703
27-Dec-2022
16:03
linh
pham



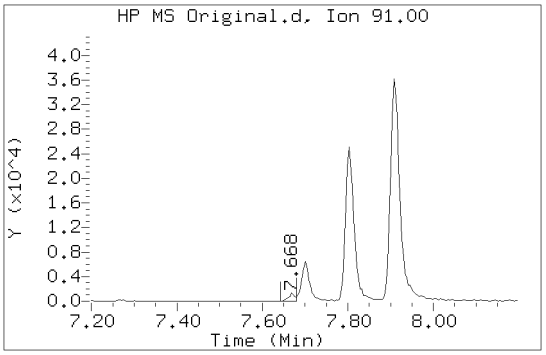
AFTER

MASS
55
AREA
5855
HEIGHT
3647
27-Dec-2022
16:07
linh
pham



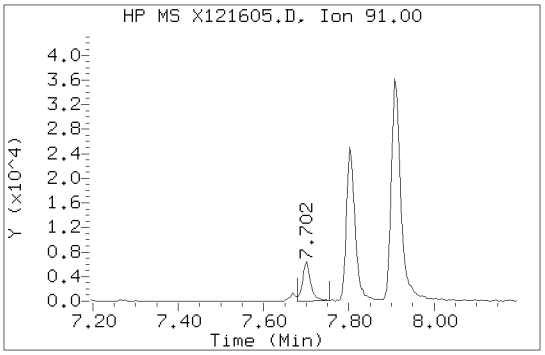
BEFORE

MASS
91
AREA
1356
HEIGHT
1324
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
8682
HEIGHT
6440
27-Dec-2022
16:07
linh
pham

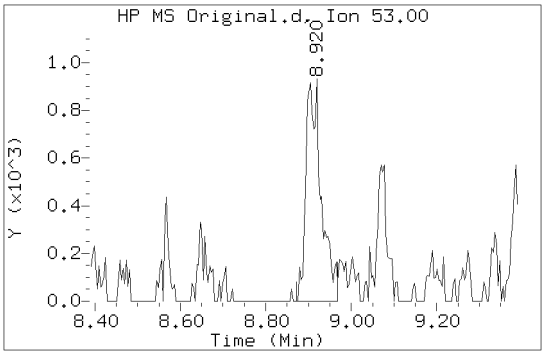


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

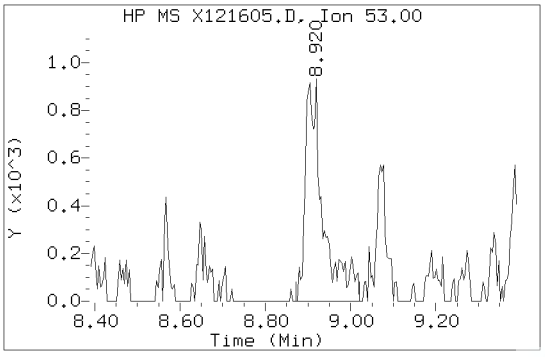
BEFORE

MASS
53
AREA
2313
HEIGHT
932
27-Dec-2022
16:03
linh
pham



AFTER

MASS
53
AREA
2690
HEIGHT
932
27-Dec-2022
16:07
linh
pham



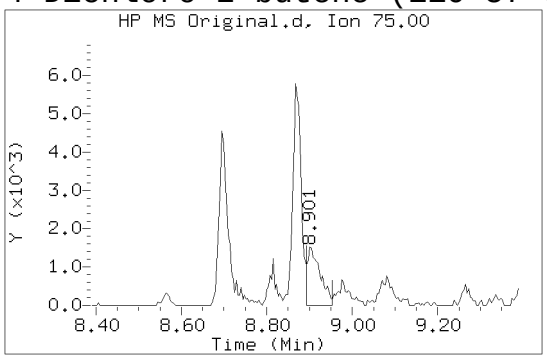
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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

Reason Code:

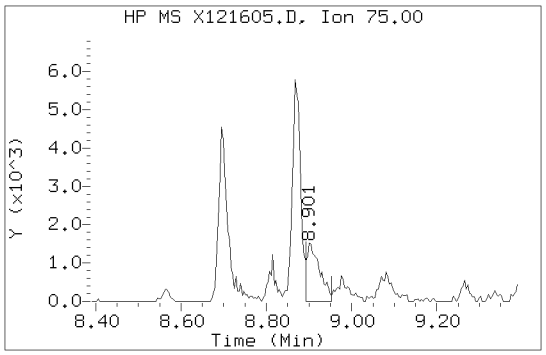
BEFORE

MASS
75
AREA
3228
HEIGHT
1526
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
3228
HEIGHT
1526
27-Dec-2022
16:07
linh
pham

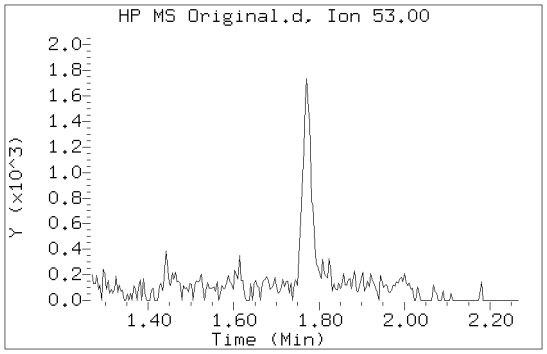


Chloroprene (126-99-8)

Reason Code:

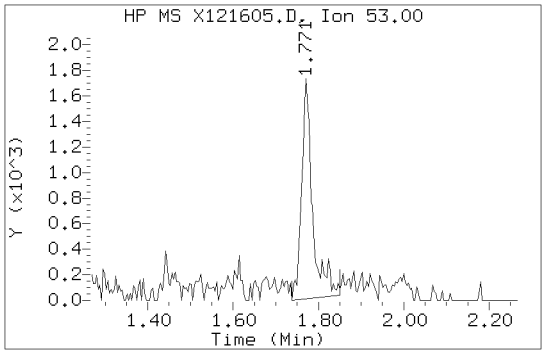
BEFORE

MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



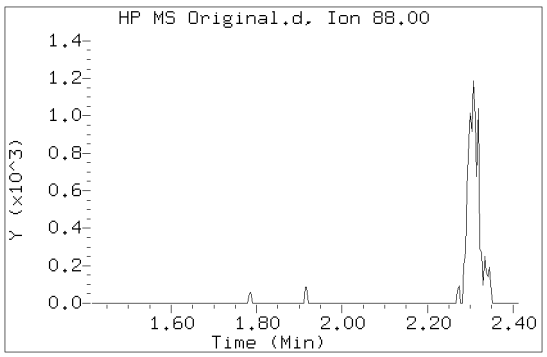
AFTER

MASS
53
AREA
3126
HEIGHT
1722
27-Dec-2022
16:07
linh
pham



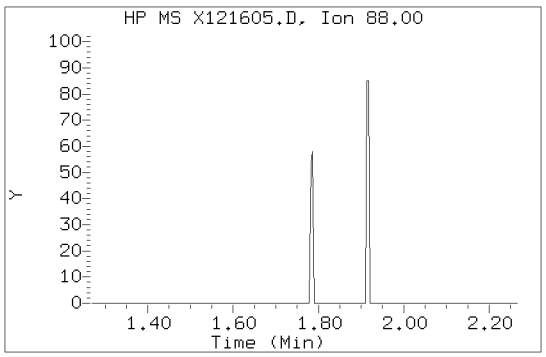
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

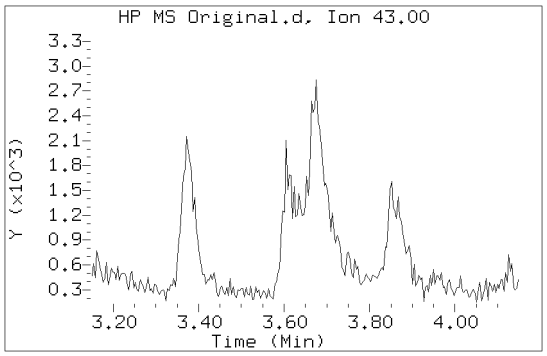


Ethyl Acetate (141-78-6)

Reason Code:

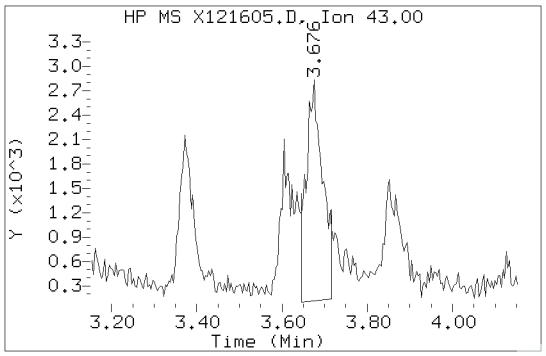
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

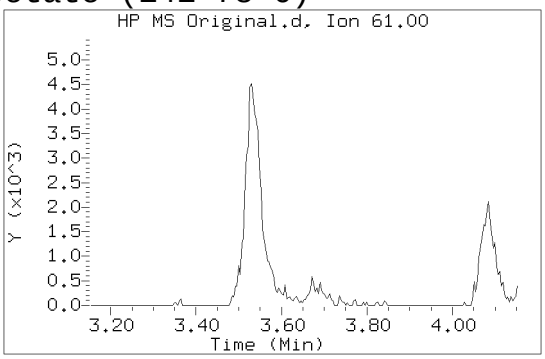
MASS
43
AREA
7422
HEIGHT
2716
27-Dec-2022
16:07
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

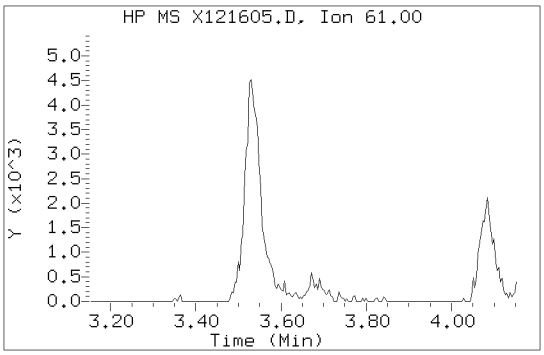
Ethyl Acetate (141-78-6)

BEFORE
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

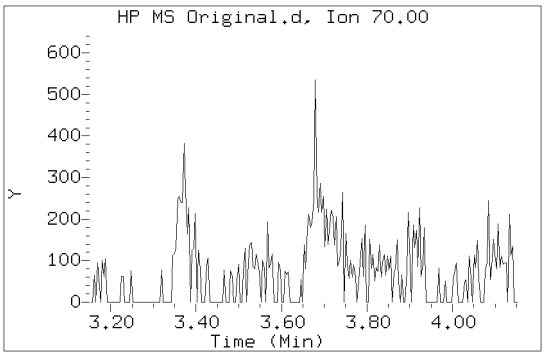


Reason Code:

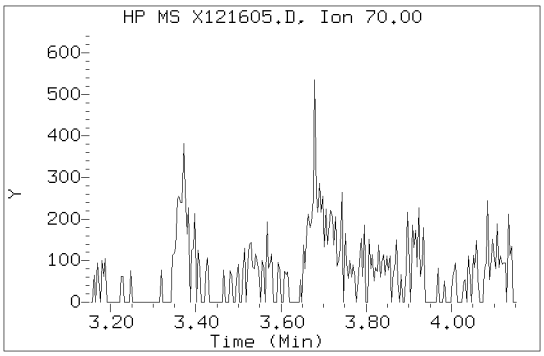
AFTER
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



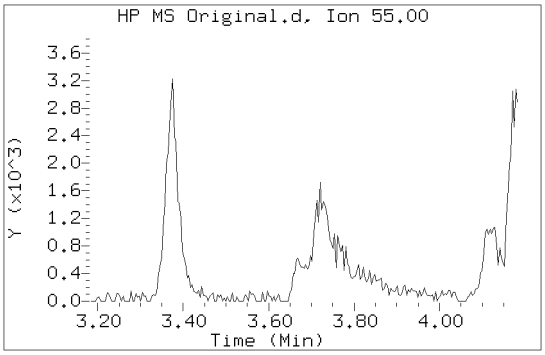
AFTER
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



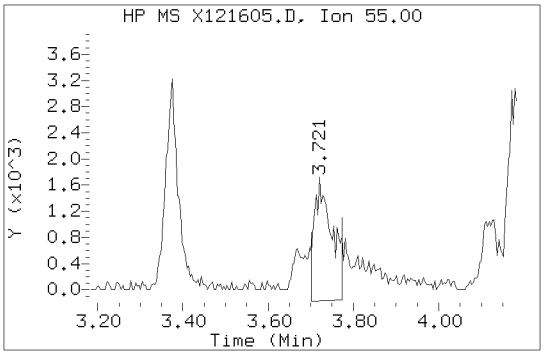
Methyl Acrylate (96-33-3)

Reason Code:

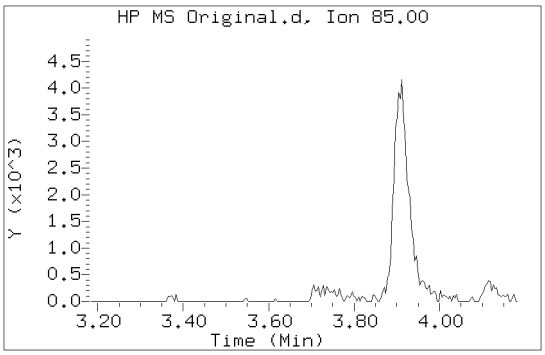
BEFORE
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



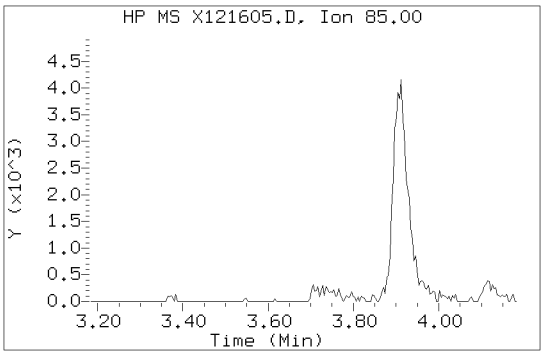
AFTER
MASS
55
AREA
5443
HEIGHT
1892
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



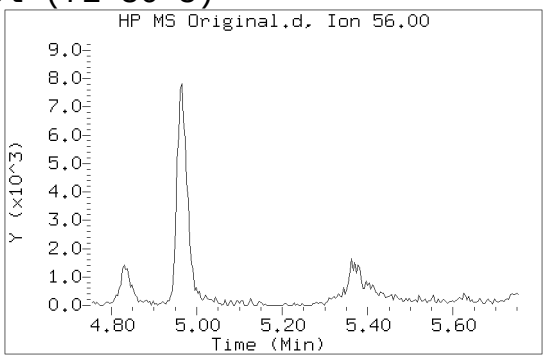
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

n-Butanol (71-36-3)

Reason Code:

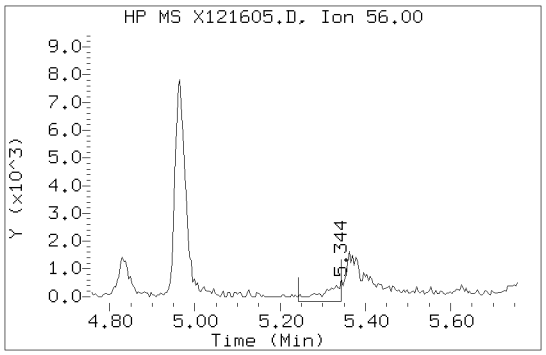
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



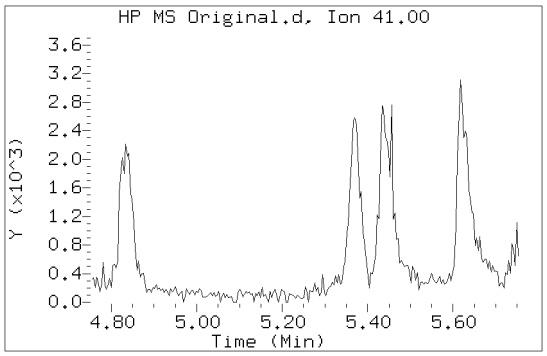
AFTER

MASS
56
AREA
2004
HEIGHT
808
27-Dec-2022
16:07
linh
pham



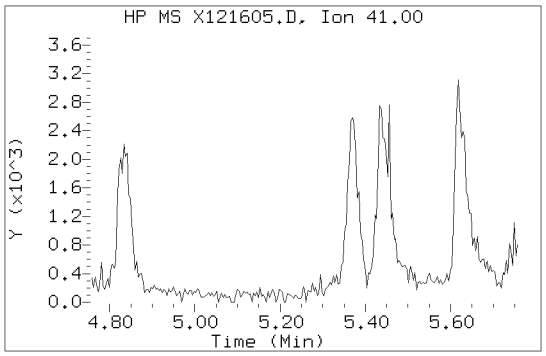
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

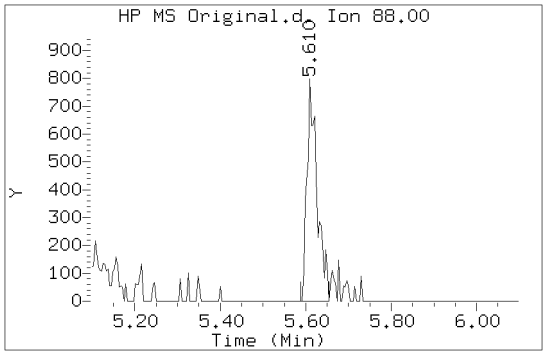


1,4-Dioxane ()

Reason Code:

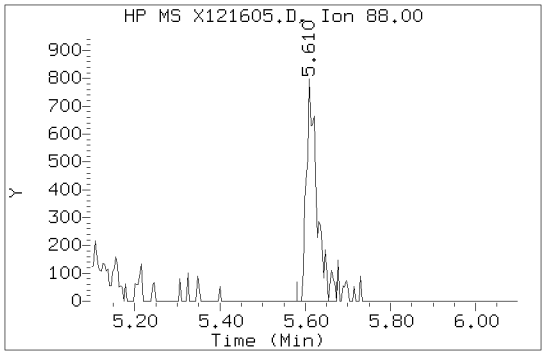
BEFORE

MASS
88
AREA
1335
HEIGHT
798
27-Dec-2022
16:03
linh
pham



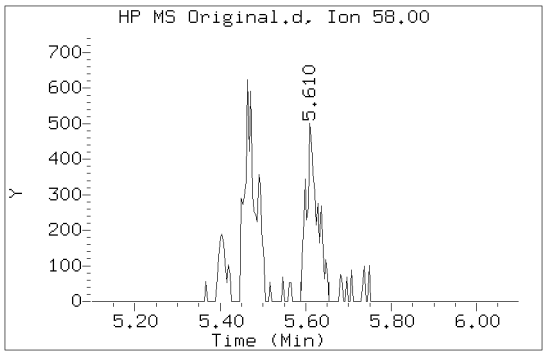
AFTER

MASS
88
AREA
1409
HEIGHT
798
27-Dec-2022
16:07
linh
pham



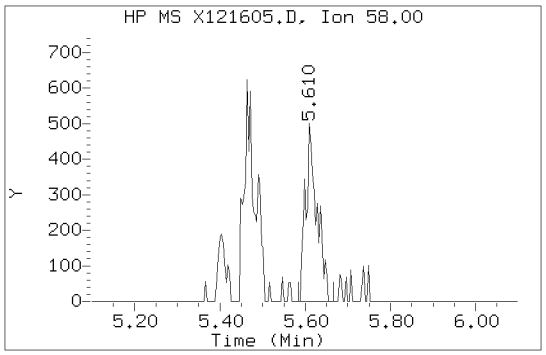
BEFORE

MASS
58
AREA
934
HEIGHT
501
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
934
HEIGHT
501
27-Dec-2022
16:07
linh
pham

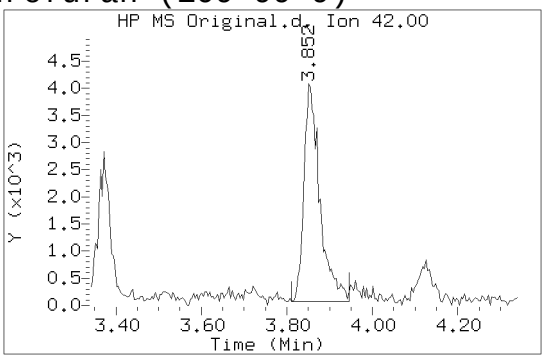


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

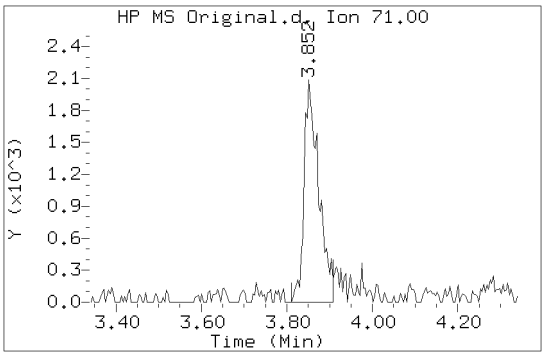
BEFORE

MASS
42
AREA
10469
HEIGHT
4012
27-Dec-2022
16:03
linh
pham



BEFORE

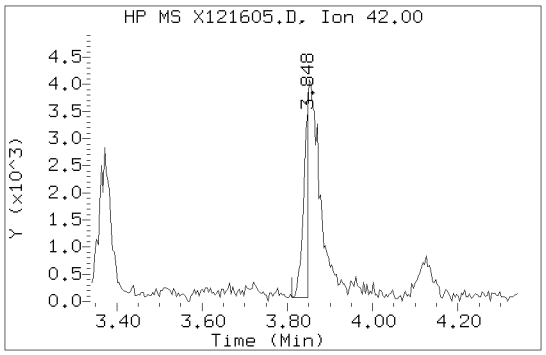
MASS
71
AREA
5020
HEIGHT
2086
27-Dec-2022
16:03
linh
pham



Reason Code:

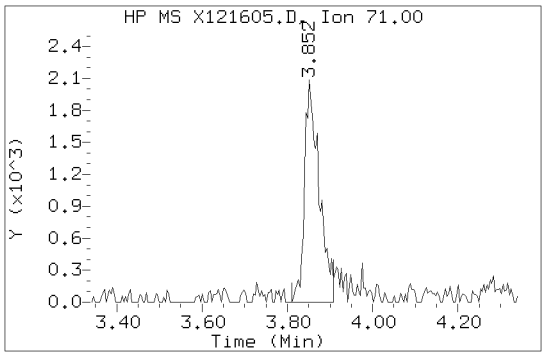
AFTER

MASS
42
AREA
2867
HEIGHT
3419
27-Dec-2022
16:07
linh
pham



AFTER

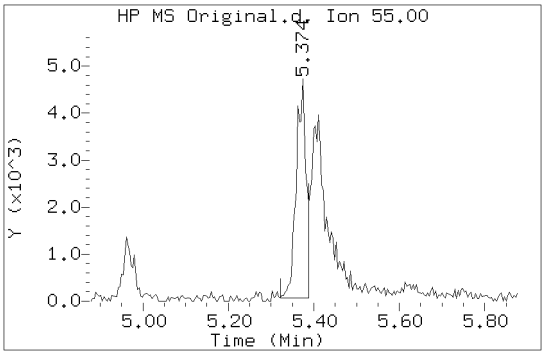
MASS
71
AREA
5020
HEIGHT
2086
27-Dec-2022
16:07
linh
pham



Methylcyclohexane (108-87-2)

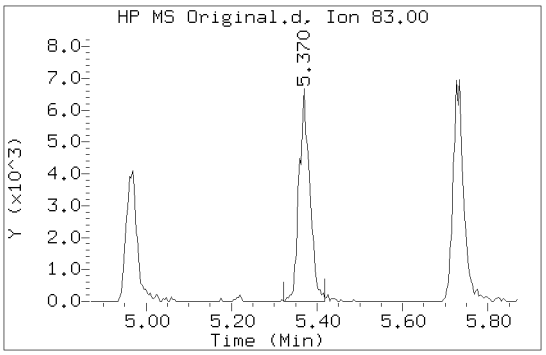
BEFORE

MASS
55
AREA
7676
HEIGHT
4656
27-Dec-2022
16:03
linh
pham



BEFORE

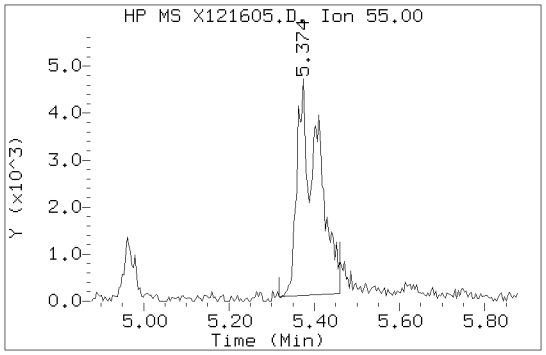
MASS
83
AREA
11881
HEIGHT
6672
27-Dec-2022
16:03
linh
pham



Reason Code:

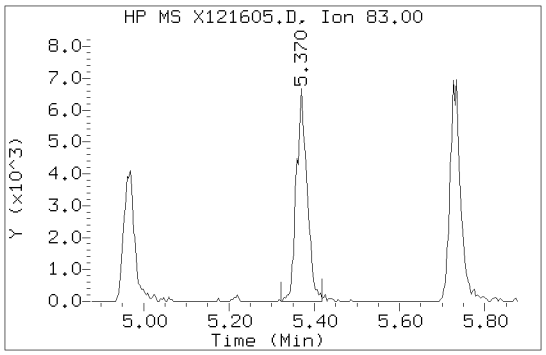
AFTER

MASS
55
AREA
16016
HEIGHT
4611
27-Dec-2022
16:07
linh
pham



AFTER

MASS
83
AREA
11881
HEIGHT
6672
27-Dec-2022
16:07
linh
pham



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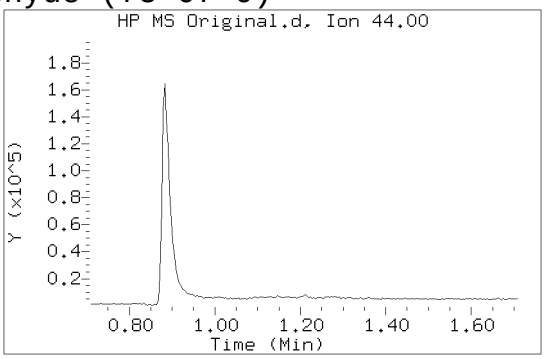
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



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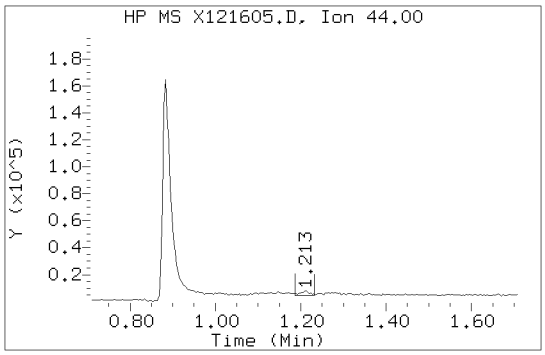

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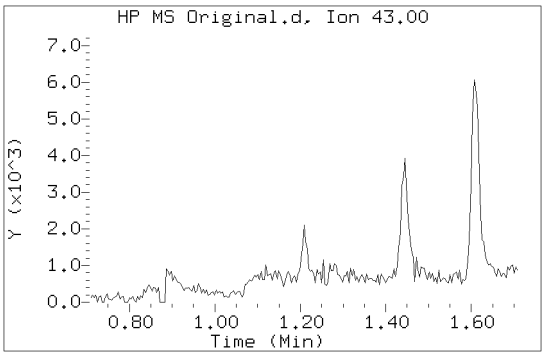

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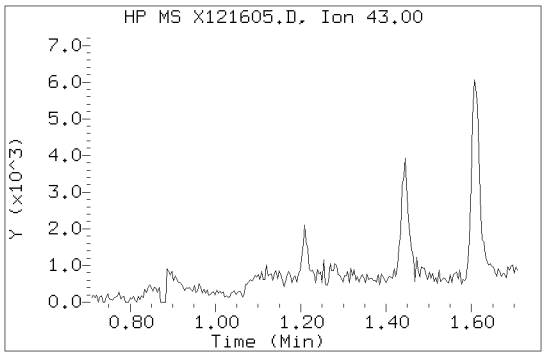

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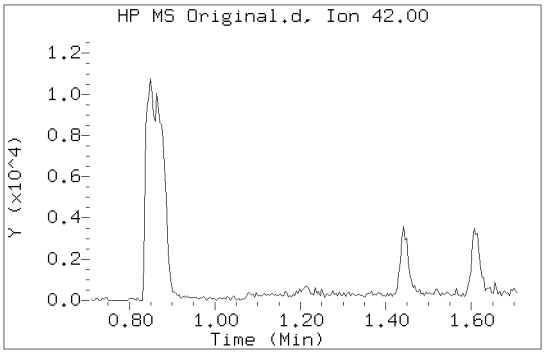

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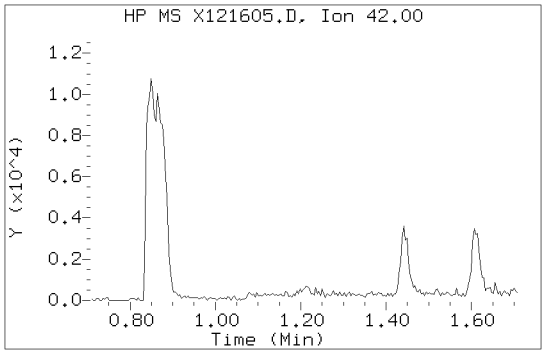

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
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Inj Date : 16-DEC-2022 13:23
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 13:02 Cal File: X121605.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	450664	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.341)	4197	100.000	101.88(M)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	14283	5.00000	4.61
25 Methacrylonitrile	41	3.840	3.840	(0.919)	15701	5.00000	4.92(M)
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	51624	100.000	101.84
13 Acetonitrile	39	2.198	2.198	(0.526)	19635	50.0000	47.87
14 Allyl Chloride	41	2.198	2.198	(0.526)	37993	5.00000	4.86
4 Propionitrile	54	3.660	3.660	(0.876)	23049	50.0000	50.12
136 n-Hexane	57	2.772	2.772	(0.664)	14618	5.00000	4.50
72 trans-1,4-Dichloro-2-butene	53	8.901	8.901	(1.161)	6648	5.00000	4.70(M)
194 Acetaldehyde	44	1.209	1.209	(0.289)	6161	20.0000	0.80(M)
23 Chloroprene	53	1.771	1.771	(0.424)	7154	5.00000	4.66(M)
145 alpha-Methylstyrene	118	9.261	9.261	(0.958)	37831	5.00000	4.79
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	40144	5.00000	4.53
139 Diethyl ether	59	1.756	1.756	(0.420)	15119	5.00000	5.02
130 Ethyl Acetate	43	3.660	3.660	(0.876)	18020	5.00000	5.12(M)
40 Methyl Methacrylate	41	5.617	5.617	(1.345)	15119	5.00000	4.92
49 Ethyl Methacrylate	69	6.715	6.715	(1.353)	13801	5.00000	4.27
132 n-Butanol	56	5.287	5.287	(1.266)	4891	100.000	125.41(M)
142 Tetrahydrofuran	42	3.848	3.848	(0.921)	7598	10.0000	10.82(M)

150	Allyl alcohol	57	2.772	2.772 (0.664)	14618	100.000	83.50
166	1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	80329	5.00000	4.68

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 2
Report Date: 27-Dec-2022 16:07

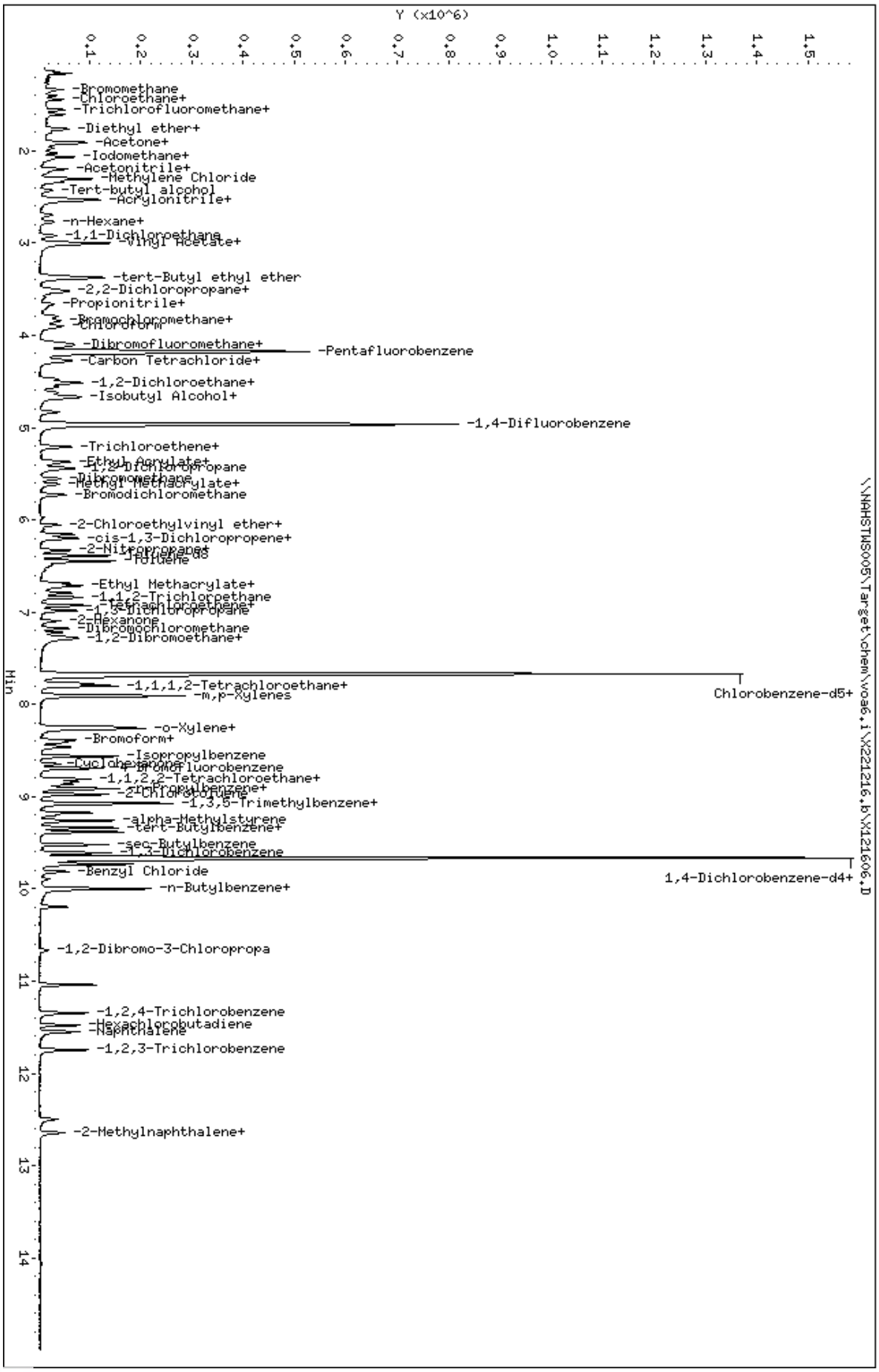
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	131	Methyl Acrylate	55	3.705	3.705	(0.887)	14950	5.00000	4.88(M)
	162	Butyl acrylate	55	8.260	8.260	(1.077)	38320	5.00000	4.48
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	15008	5.00000	5.11
	3	Chloromethane	50	1.077	1.077	(0.258)	19623	5.00000	6.81
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	19002	5.00000	4.82
	6	Bromomethane	94	1.336	1.336	(0.320)	15112	5.00000	6.66
	7	Chloroethane	64	1.400	1.400	(0.335)	14167	5.00000	5.17
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	26620	5.00000	4.83
	9	Acrolein	56	1.441	1.441	(0.345)	2699	10.0000	11.33
	10	Acetone	43	1.973	1.973	(0.472)	17632	10.0000	13.91
	11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	16850	5.00000	4.92
	15	Iodomethane	142	2.026	2.026	(0.485)	26708	10.0000	9.27
	16	Acrylonitrile	53	2.551	2.551	(0.611)	11047	10.0000	9.52
	17	Methylene Chloride	84	2.303	2.303	(0.551)	22932	5.00000	4.88(M)
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	56330	5.00000	5.03
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	85418	10.0000	9.54
	20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	19006	5.00000	4.96
	21	Vinyl Acetate	43	3.000	3.000	(0.718)	101238	10.0000	10.30
	22	1,1-Dichloroethane	63	2.922	2.922	(0.699)	33810	5.00000	5.03
	24	2-Butanone	43	3.600	3.600	(0.862)	11771	10.0000	11.53(H)
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	27881	5.00000	4.88
	27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	22734	5.00000	4.88
	28	Chloroform	83	3.904	3.904	(0.935)	38156	5.00000	5.06
	29	Bromochloromethane	128	3.799	3.799	(0.909)	13213	5.00000	5.18
$	30	Dibromofluoromethane	113	4.103	4.103	(0.982)	24255	5.00000	5.45
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	29017	5.00000	4.85
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	23845	5.00000	4.90(M)
	33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	28173	5.00000	5.01
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	24171	5.00000	4.65
$	35	1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	24938	5.00000	5.70(M)
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685413	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	81981	5.00000	5.00
	38	Trichloroethene	130	5.208	5.208	(1.049)	22693	5.00000	4.88
	39	Bromodichloromethane	83	5.729	5.729	(1.154)	29358	5.00000	4.77
	41	2-Chloroethylvinyl ether	63	6.056	6.056	(1.220)	17700	10.0000	10.12
	42	1,2-Dichloropropane	63	5.437	5.437	(1.095)	21679	5.00000	4.97
	44	Dibromomethane	93	5.557	5.557	(1.119)	14449	5.00000	4.88
	45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	34912	10.0000	9.98
	46	cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	35507	5.00000	4.92
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	654176	50.0000	
$	48	Toluene-d8	98	6.389	6.389	(0.833)	81640	5.00000	5.05
	50	Toluene	91	6.449	6.449	(0.841)	89594	5.00000	4.95
	51	trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	28399	5.00000	4.74(M)
	52	2-Hexanone	43	7.094	7.094	(0.925)	24056	10.0000	10.11
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	18638	5.00000	5.13
	54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	35759	5.00000	5.00
	55	Dibromochloromethane	129	7.176	7.176	(0.936)	25357	5.00000	4.84
	56	Tetrachloroethene	164	6.929	6.929	(0.904)	17219	5.00000	4.60
	57	1,2-Dibromoethane	107	7.263	7.263	(0.947)	23172	5.00000	5.10
	58	1-Chlorohexane	55	7.698	7.698	(1.550)	15210	5.00000	4.59(MH)
	59	Chlorobenzene	112	7.694	7.694	(1.003)	62744	5.00000	4.89
	60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	22632	5.00000	4.74

61 Ethylbenzene	106	7.802	7.802 (1.018)	29550	5.00000	4.89
62 m,p-Xylenes	106	7.907	7.907 (1.031)	73283	10.0000	9.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
63	o-Xylene	106	8.245	8.245	(1.075)	37189	5.00000	4.83
64	Styrene	104	8.267	8.267	(1.078)	62411	5.00000	4.84
66	Bromoform	173	8.414	8.414	(1.097)	16801	5.00000	4.63
67	Isopropylbenzene	105	8.563	8.563	(1.117)	85440	5.00000	4.86
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	29807	5.00000	5.24
$ 69	4-Bromofluorobenzene	95	8.695	8.695	(1.134)	32501	5.00000	5.43
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356340	50.0000	
71	1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	20685	5.00000	5.21(M)
73	n-Propylbenzene	91	8.916	8.916	(0.923)	97603	5.00000	4.94
74	Bromobenzene	156	8.811	8.811	(0.912)	28887	5.00000	4.94
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	72501	5.00000	4.97
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	65973	5.00000	5.09
77	4-Chlorotoluene	91	9.077	9.077	(0.939)	75073	5.00000	5.08
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	59375	5.00000	4.97
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	75723	5.00000	4.93
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	77577	5.00000	4.88
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	69666	5.00000	4.89
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	49954	5.00000	5.14
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	52655	5.00000	4.97
86	Benzyl Chloride	91	9.816	9.816	(1.280)	35254	5.00000	5.95
87	n-Butylbenzene	91	9.999	9.999	(1.035)	54831	5.00000	5.63
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	50895	5.00000	5.09
89	1,2-Dibromo-3-Chloropropane	155	10.670	10.670	(1.104)	4911	5.00000	5.49
90	1,2,4-Trichlorobenzene	180	11.345	11.345	(1.174)	31873	5.00000	5.05
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	13454	5.00000	4.81
92	Naphthalene	128	11.551	11.551	(1.196)	72748	5.00000	5.06
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	30274	5.00000	5.01
M 94	1,2-Dichloroethylene (total)	96				41740	10.0000	
M 95	Xylenes (total)	106				110472	15.0000	
141	Cyclohexane	56	4.118	4.118	(0.986)	19859	5.00000	5.52(H)
138	Freon TF	101	1.913	1.913	(0.458)	14845	5.00000	4.48
147	Methylcyclohexane	55	5.388	5.388	(1.085)	38650	5.00000	4.60(M)
146	Methyl Acetate	43	2.236	2.236	(0.535)	8968	5.00000	4.42
148	Tert-Butyl alcohol	59	2.431	2.431	(0.582)	30525	100.000	97.81
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	16518	100.000	101.35(T)

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methylene Chloride (75-09-2)

Reason Code:

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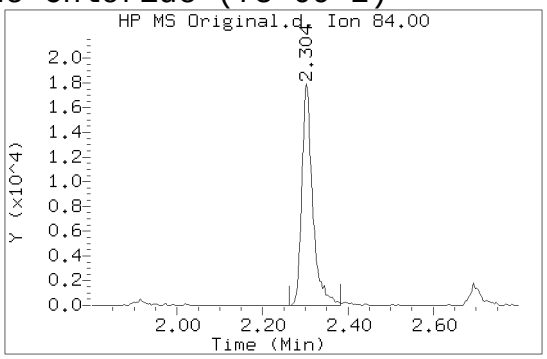

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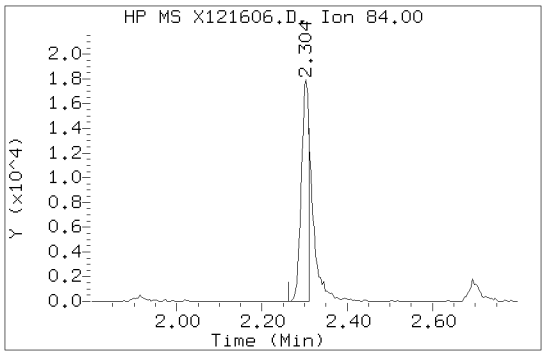

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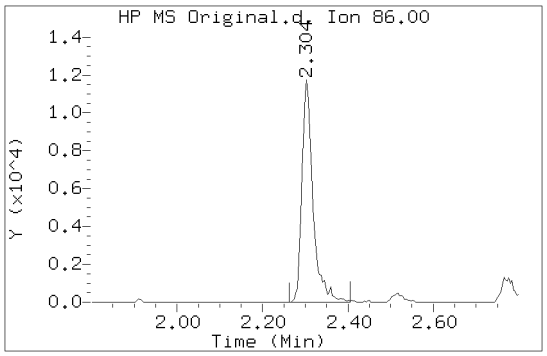

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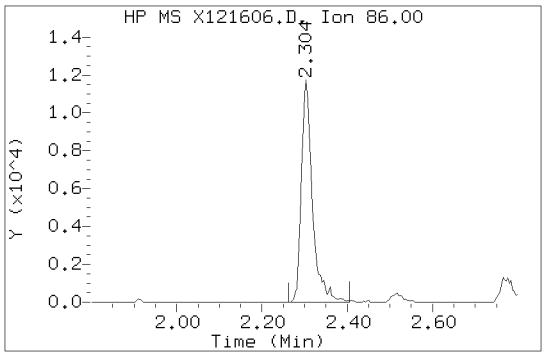

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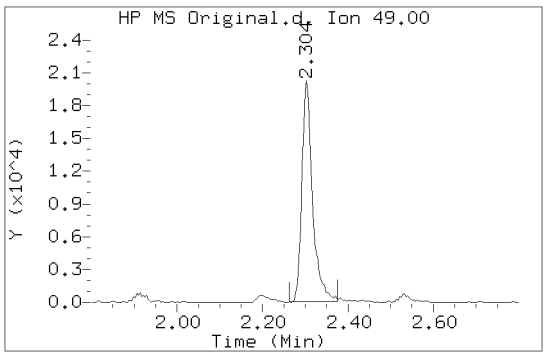

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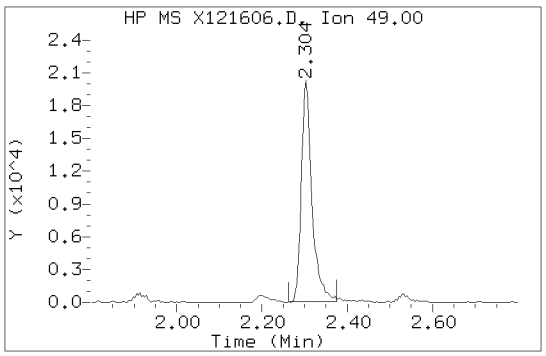

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

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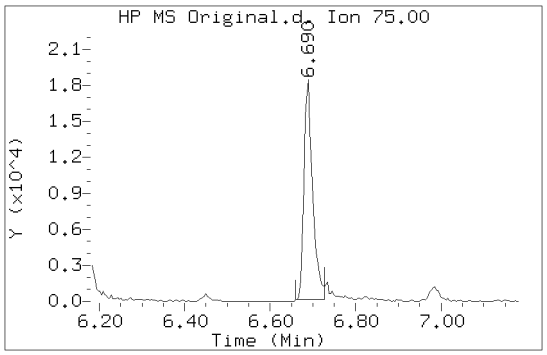

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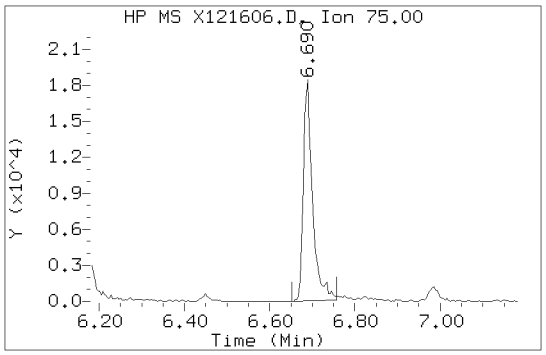

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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

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

Reason Code:

BEFORE

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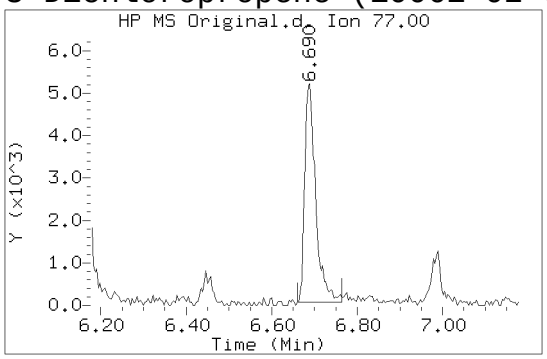

AFTER

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27-Dec-2022
16:07
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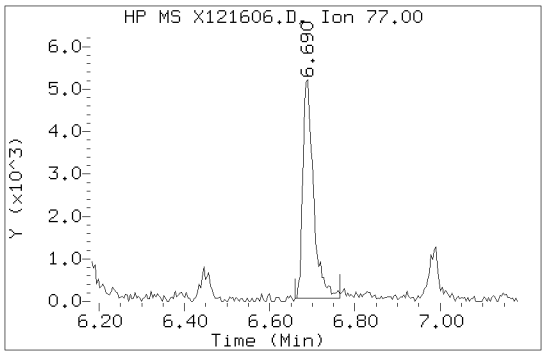
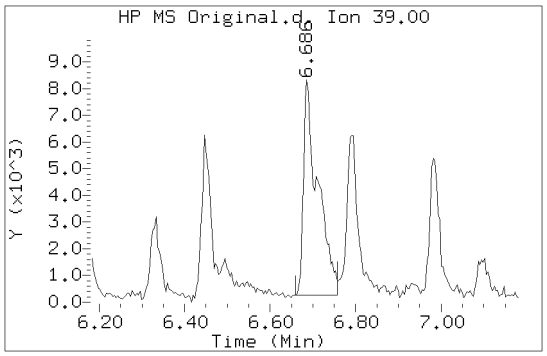
pham



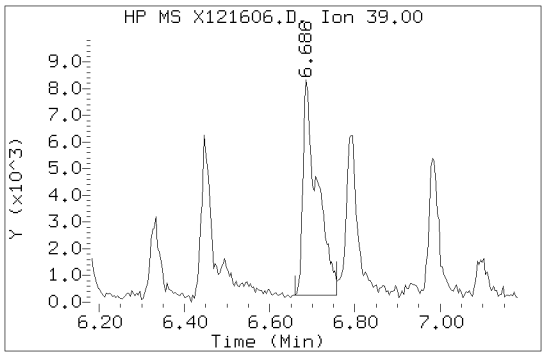
BEFORE

MASS
39
AREA
19092
HEIGHT
8065
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
19092
HEIGHT
8065
27-Dec-2022
16:07
linh
pham

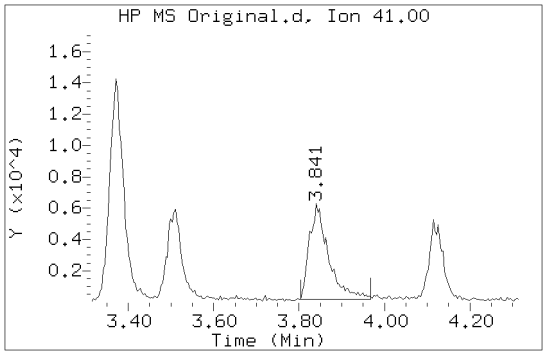


Methacrylonitrile (126-98-7)

Reason Code:

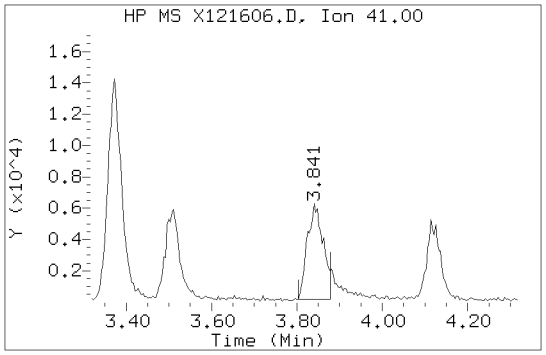
BEFORE

MASS
41
AREA
18790
HEIGHT
6109
27-Dec-2022
16:03
linh
pham



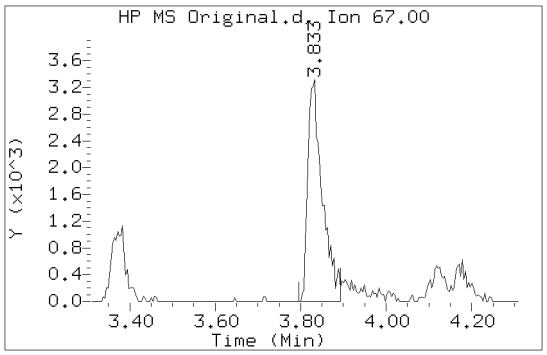
AFTER

MASS
41
AREA
15701
HEIGHT
6109
27-Dec-2022
16:07
linh
pham



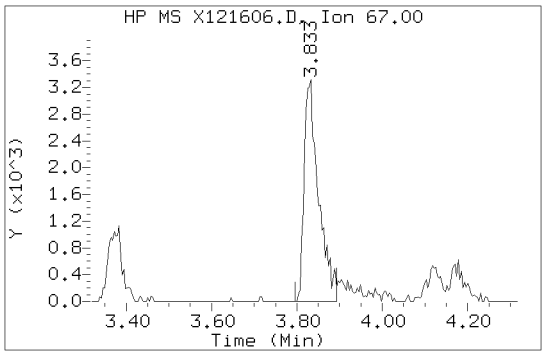
BEFORE

MASS
67
AREA
7866
HEIGHT
3315
27-Dec-2022
16:03
linh
pham



AFTER

MASS
67
AREA
7866
HEIGHT
3315
27-Dec-2022
16:07
linh
pham



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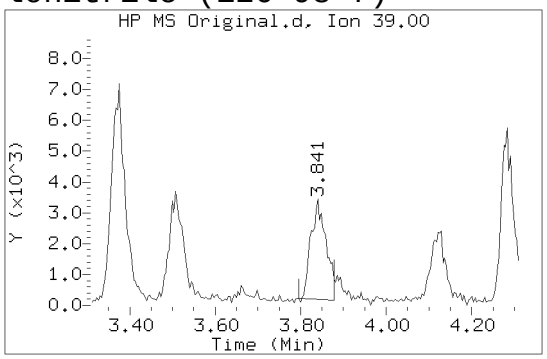
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methacrylonitrile (126-98-7)

Reason Code:

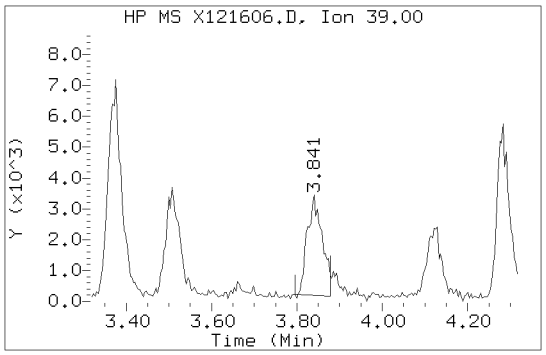
BEFORE

MASS
39
AREA
7951
HEIGHT
3252
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
7951
HEIGHT
3252
27-Dec-2022
16:07
linh
pham

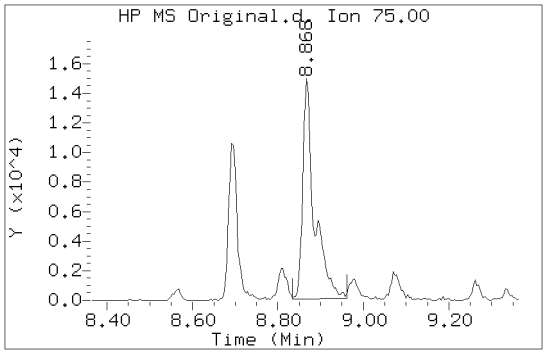


1,2,3-Trichloropropane (96-18-4)

Reason Code:

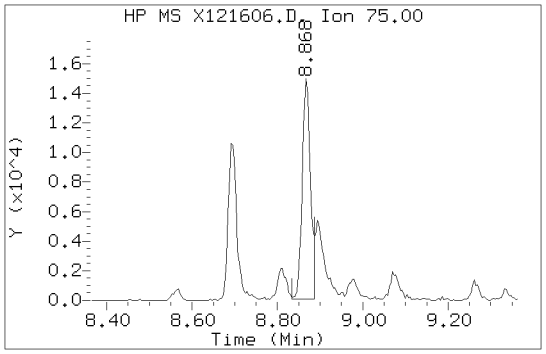
BEFORE

MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:03
linh
pham



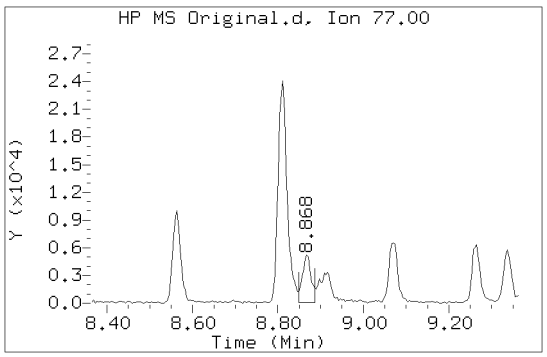
AFTER

MASS
75
AREA
20685
HEIGHT
14911
27-Dec-2022
16:07
linh
pham



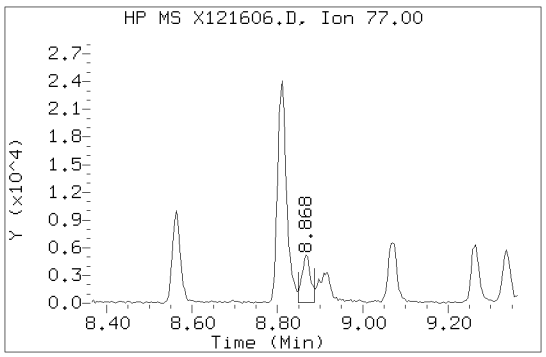
BEFORE

MASS
77
AREA
7524
HEIGHT
5143
27-Dec-2022
16:03
linh
pham



AFTER

MASS
77
AREA
7524
HEIGHT
5143
27-Dec-2022
16:07
linh
pham

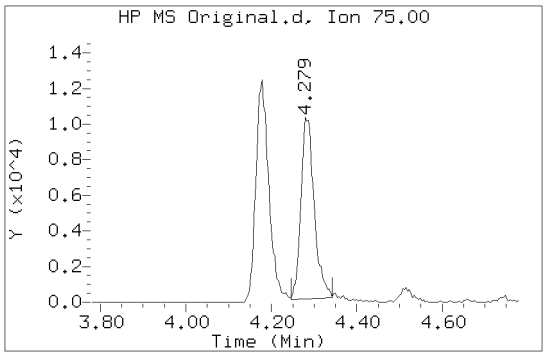


1,1-Dichloropropene (563-58-6)

Reason Code:

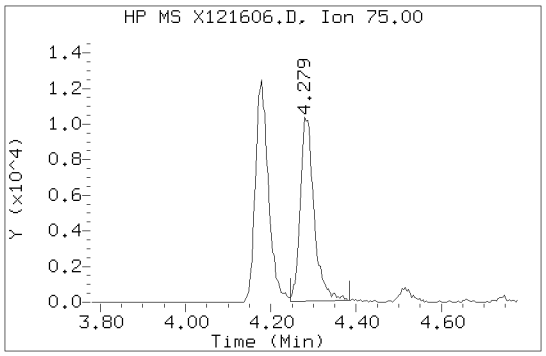
BEFORE

MASS
75
AREA
22411
HEIGHT
10201
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
23845
HEIGHT
10354
27-Dec-2022
16:07
linh
pham



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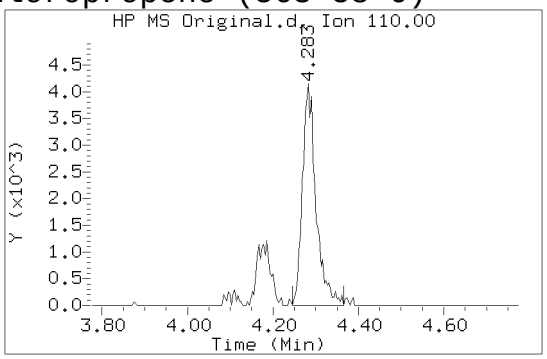
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

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

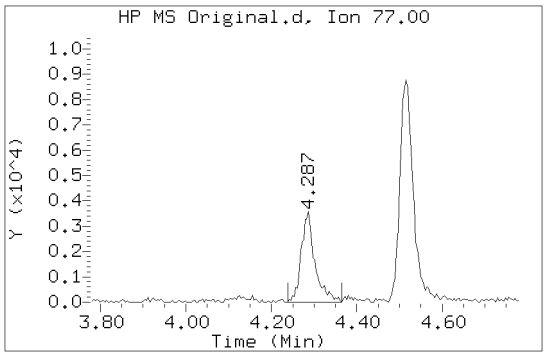
BEFORE

MASS
110
AREA
9244
HEIGHT
4151
27-Dec-2022
16:03
linh
pham



BEFORE

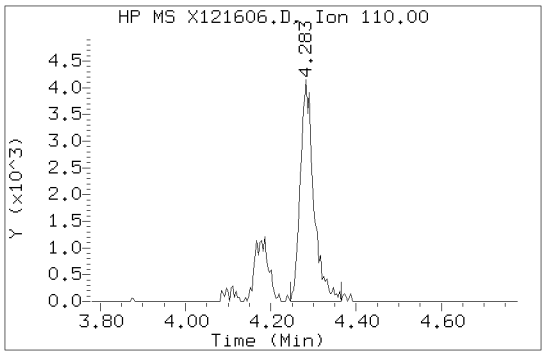
MASS
77
AREA
8083
HEIGHT
3567
27-Dec-2022
16:03
linh
pham



Reason Code:

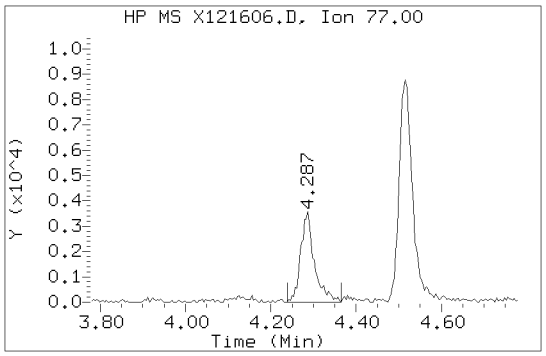
AFTER

MASS
110
AREA
9244
HEIGHT
4151
27-Dec-2022
16:07
linh
pham



AFTER

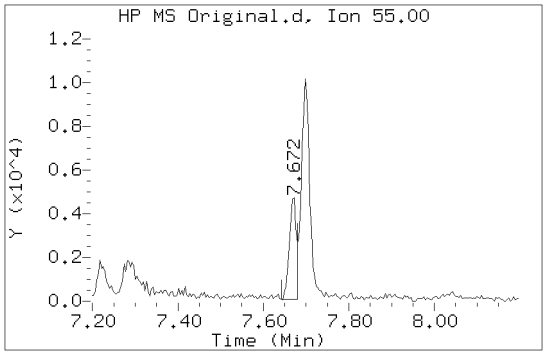
MASS
77
AREA
8083
HEIGHT
3567
27-Dec-2022
16:07
linh
pham



1-Chlorohexane (544-10-5)

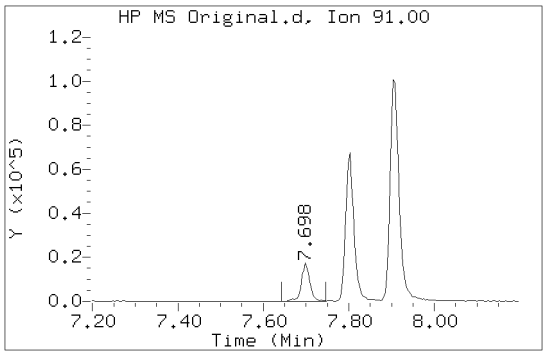
BEFORE

MASS
55
AREA
5371
HEIGHT
4660
27-Dec-2022
16:03
linh
pham



BEFORE

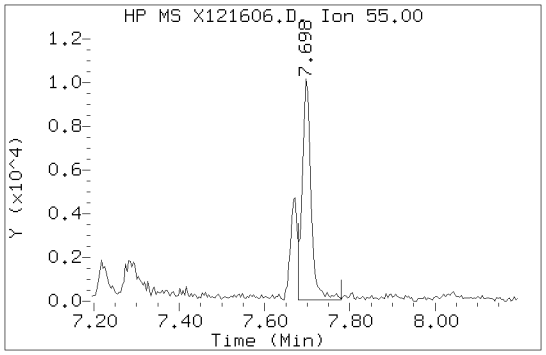
MASS
91
AREA
24578
HEIGHT
17336
27-Dec-2022
16:03
linh
pham



Reason Code:

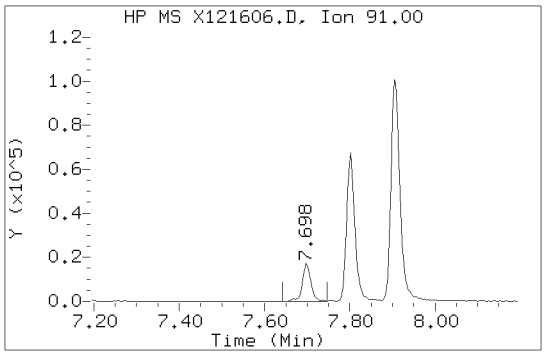
AFTER

MASS
55
AREA
15210
HEIGHT
10126
27-Dec-2022
16:07
linh
pham



AFTER

MASS
91
AREA
24578
HEIGHT
17336
27-Dec-2022
16:07
linh
pham



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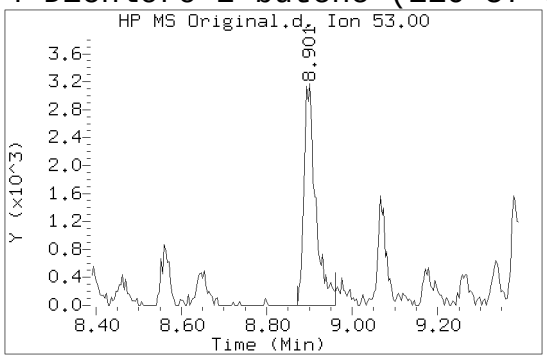
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

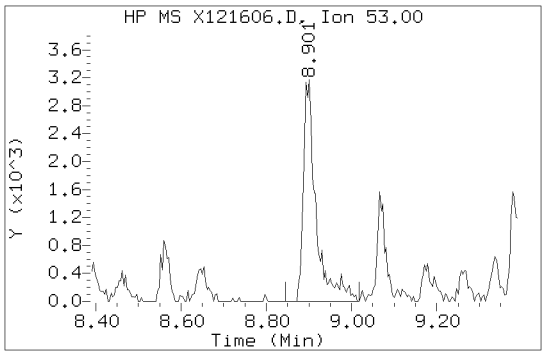
trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE
MASS
53
AREA
6122
HEIGHT
3172
27-Dec-2022
16:03
linh
pham

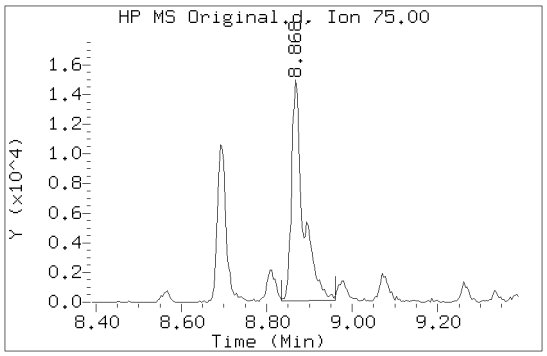


Reason Code:

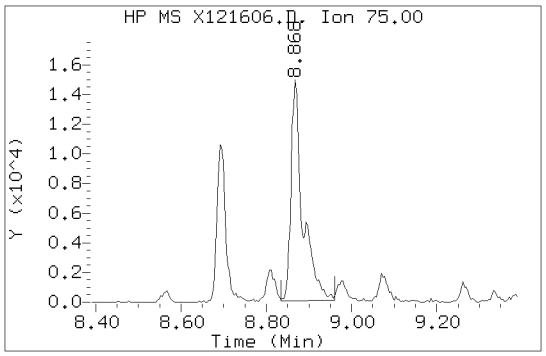
AFTER
MASS
53
AREA
6648
HEIGHT
3172
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:03
linh
pham

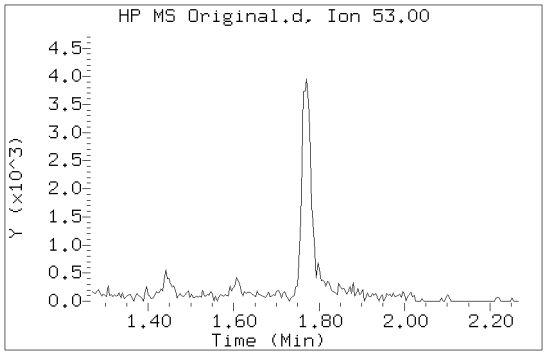


AFTER
MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:07
linh
pham



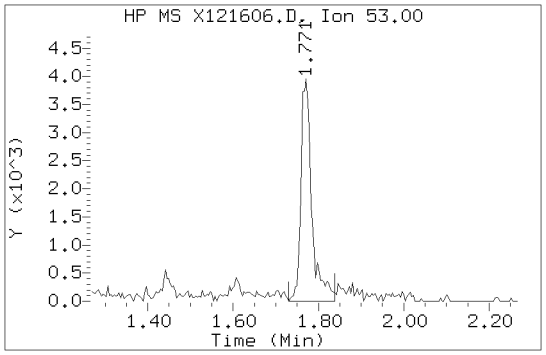
Chloroprene (126-99-8)

BEFORE
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

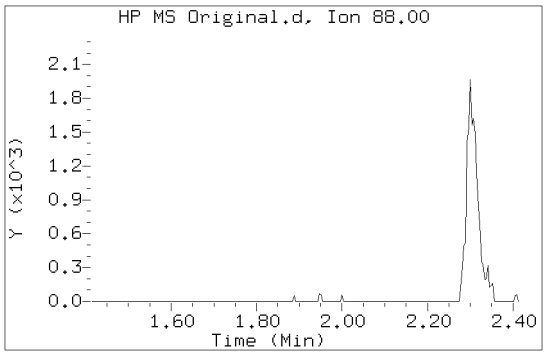


Reason Code:

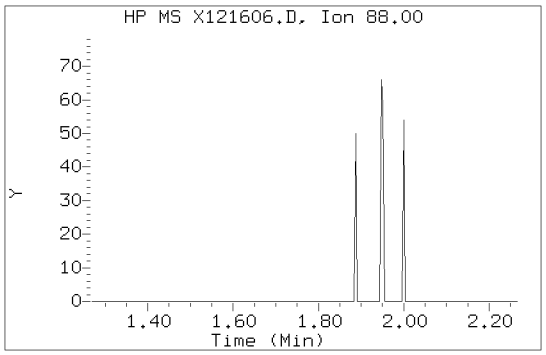
AFTER
MASS
53
AREA
7154
HEIGHT
3955
27-Dec-2022
16:07
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



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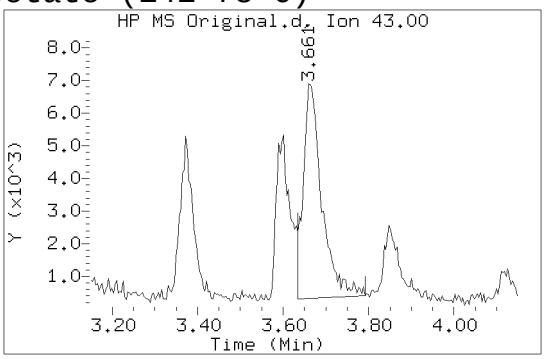
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

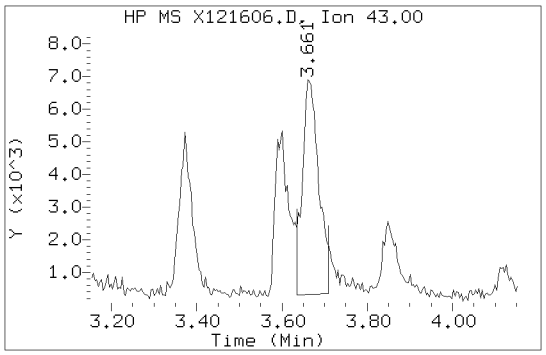
BEFORE

MASS
43
AREA
20113
HEIGHT
6576
27-Dec-2022
16:03
linh
pham



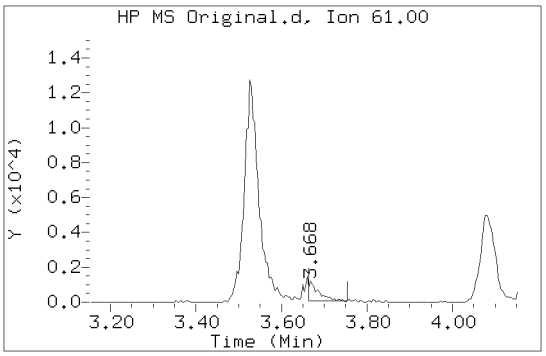
AFTER

MASS
43
AREA
18020
HEIGHT
6576
27-Dec-2022
16:07
linh
pham



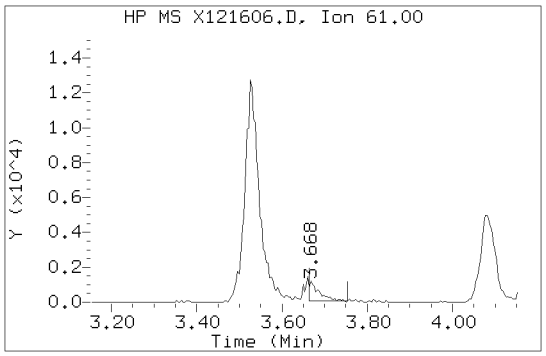
BEFORE

MASS
61
AREA
1766
HEIGHT
1155
27-Dec-2022
16:03
linh
pham



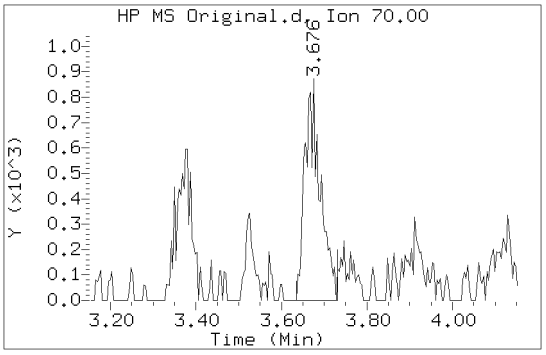
AFTER

MASS
61
AREA
1766
HEIGHT
1155
27-Dec-2022
16:07
linh
pham



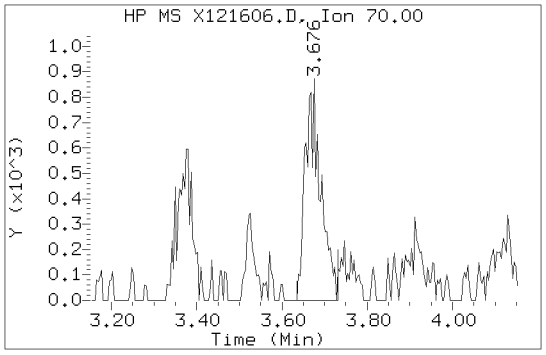
BEFORE

MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:03
linh
pham



AFTER

MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:07
linh
pham

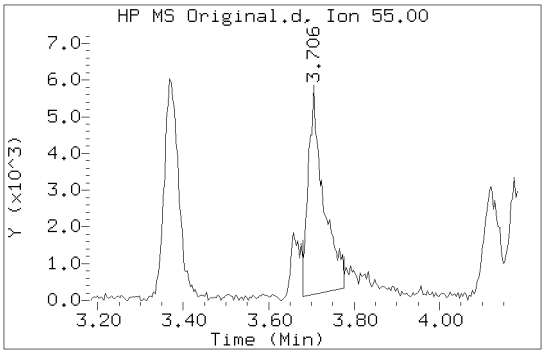


Methyl Acrylate (96-33-3)

Reason Code:

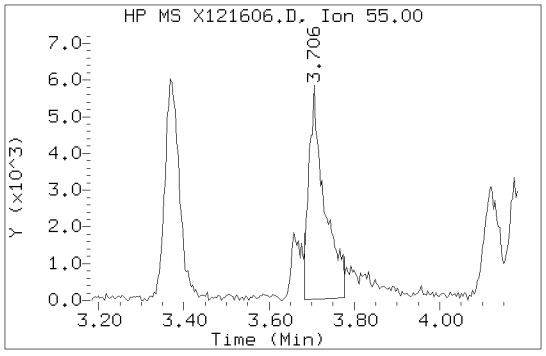
BEFORE

MASS
55
AREA
14157
HEIGHT
5696
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
14950
HEIGHT
5831
27-Dec-2022
16:07
linh
pham



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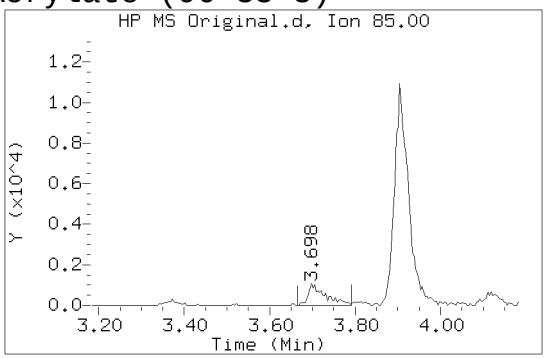
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

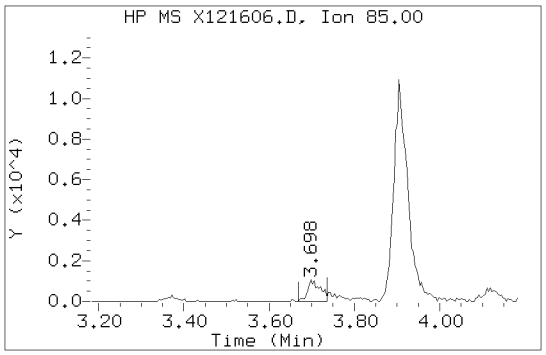
BEFORE

MASS
85
AREA
2934
HEIGHT
1073
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
2159
HEIGHT
1073
27-Dec-2022
16:07
linh
pham



n-Butanol (71-36-3)

Reason Code:

BEFORE

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AREA
2243
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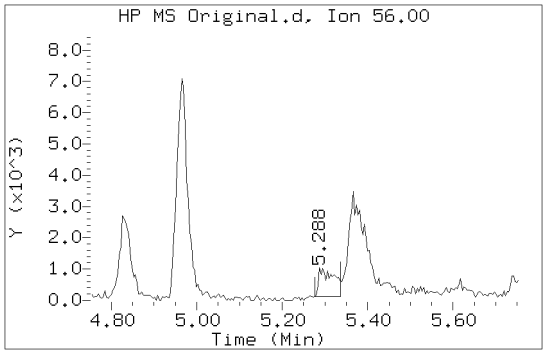
922
27-Dec-2022
16:03
linh
pham



AFTER

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1266
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16:07
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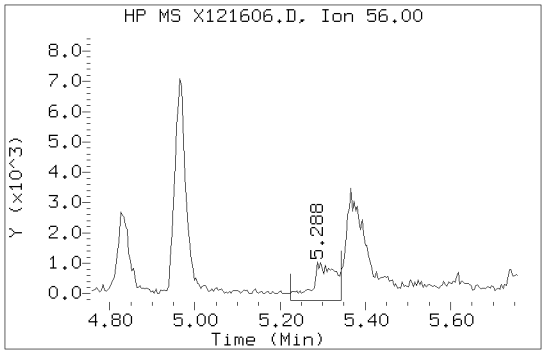

BEFORE

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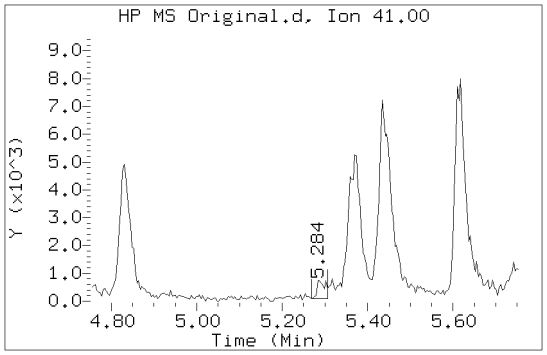
AREA
876
HEIGHT
641
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
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641
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16:07
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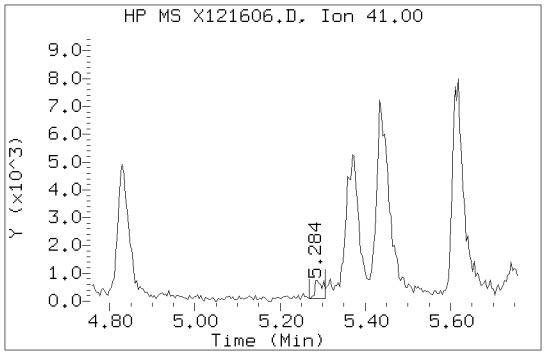

1,4-Dioxane ()

Reason Code:

BEFORE

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88
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2211
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16:03
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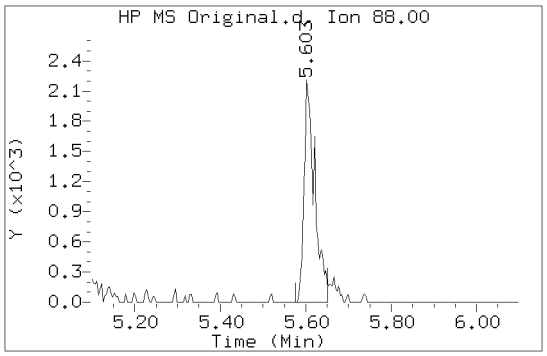
pham



AFTER

MASS
88
AREA
4197
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2211
27-Dec-2022
16:07
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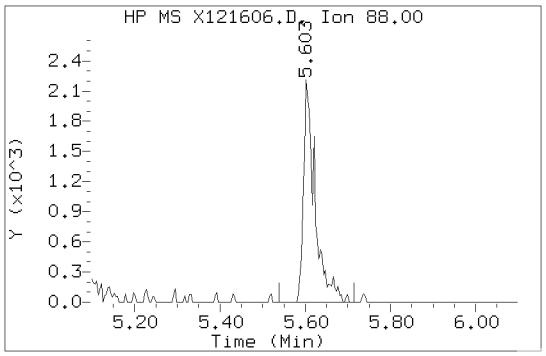

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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
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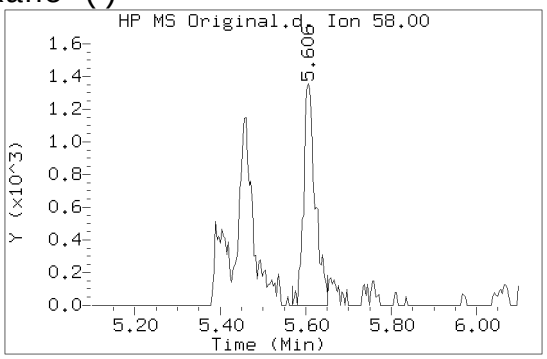
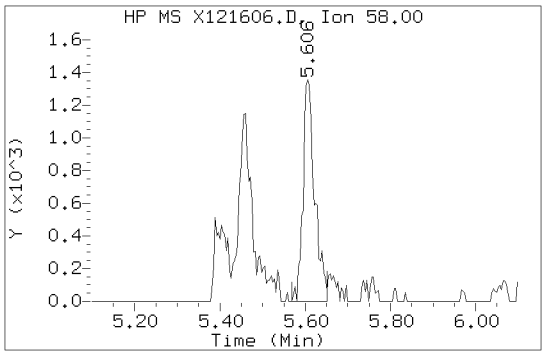
AREA
2625
HEIGHT
1356
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
2625
HEIGHT
1356
27-Dec-2022
16:07
linh
pham

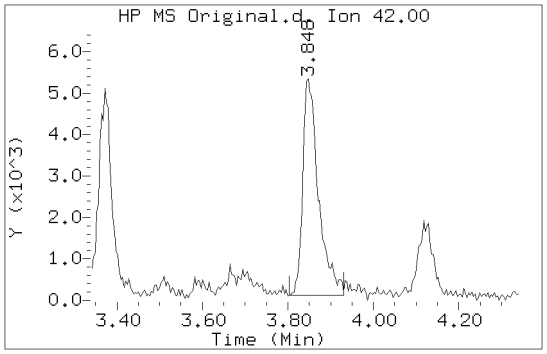


Tetrahydrofuran (109-99-9)

Reason Code:

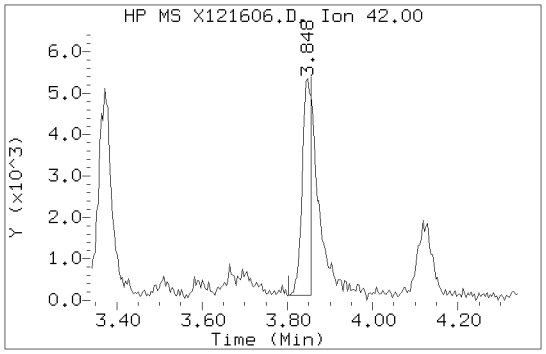
BEFORE

MASS
42
AREA
13557
HEIGHT
5225
27-Dec-2022
16:03
linh
pham



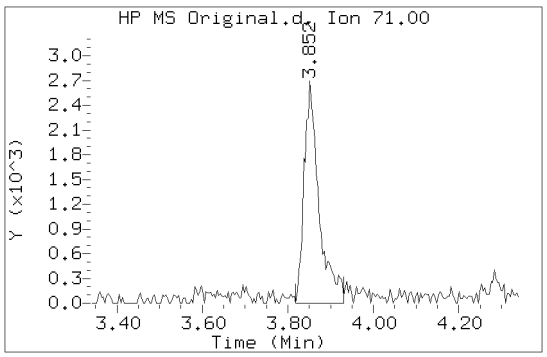
AFTER

MASS
42
AREA
7598
HEIGHT
5225
27-Dec-2022
16:07
linh
pham



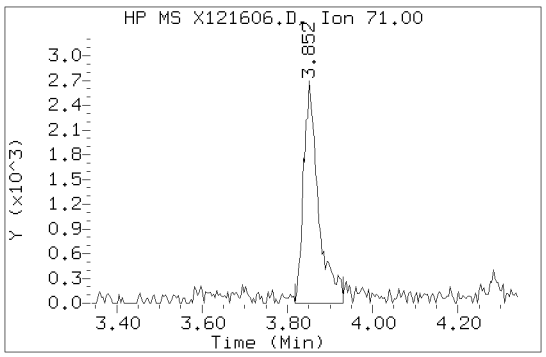
BEFORE

MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:03
linh
pham



AFTER

MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:07
linh
pham

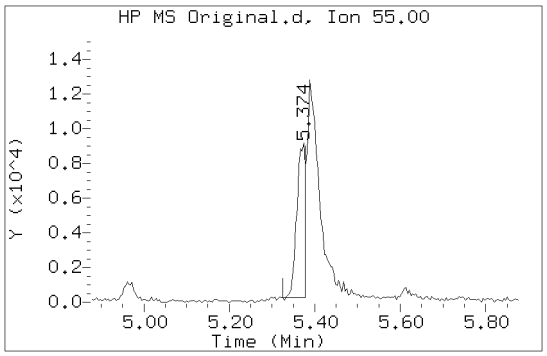


Methylcyclohexane (108-87-2)

Reason Code:

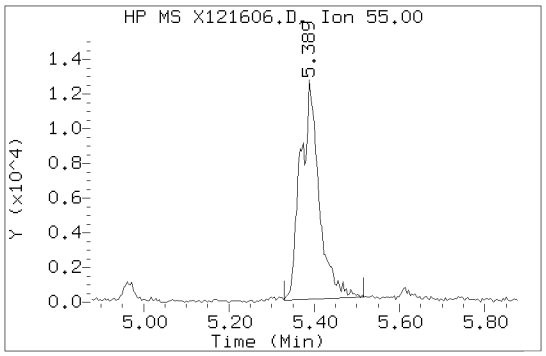
BEFORE

MASS
55
AREA
12381
HEIGHT
8941
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
38650
HEIGHT
12647
27-Dec-2022
16:07
linh
pham

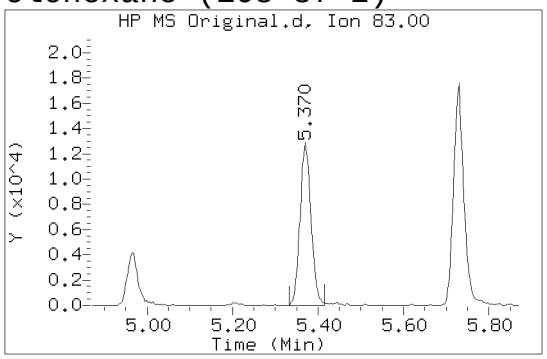


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methylcyclohexane (108-87-2)

BEFORE

MASS
83
AREA
23564
HEIGHT
12870
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
83
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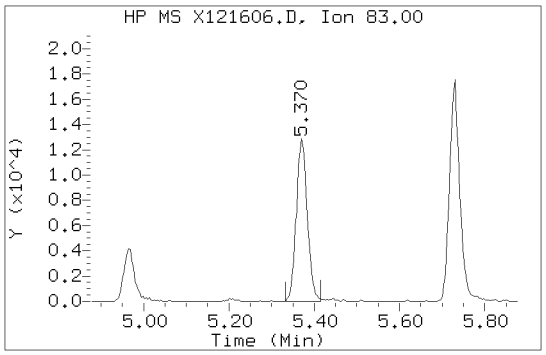
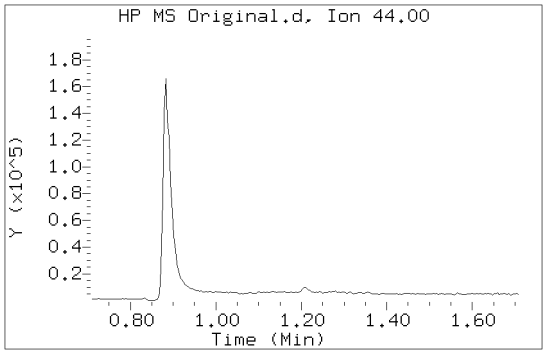
HEIGHT
12870
27-Dec-2022
16:07
linh
pham



Acetaldehyde (75-07-0)

BEFORE

MASS
44
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

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44
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4314
27-Dec-2022
16:07
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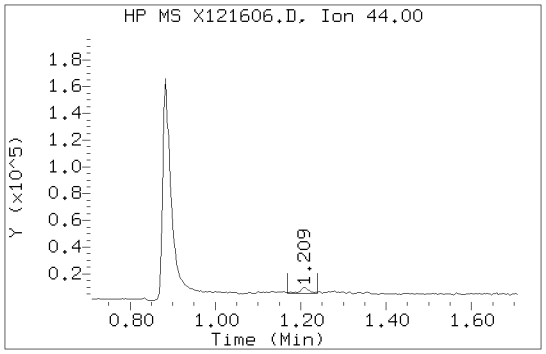

BEFORE

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43
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HEIGHT
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27-Dec-2022
16:03
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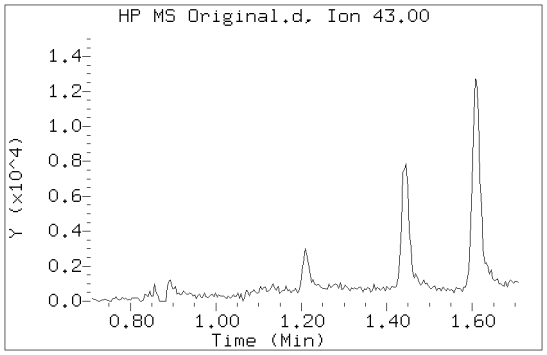

AFTER

MASS
43
AREA
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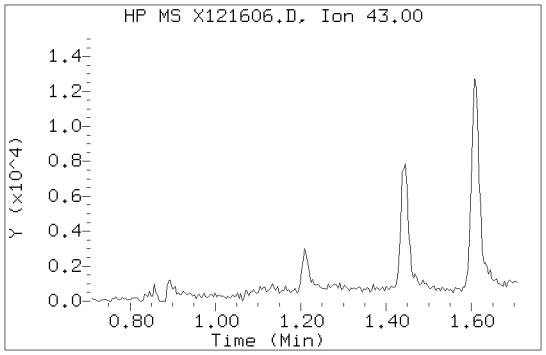
HEIGHT
0
27-Dec-2022
16:07
linh
pham



BEFORE

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AREA
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HEIGHT
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27-Dec-2022
16:03
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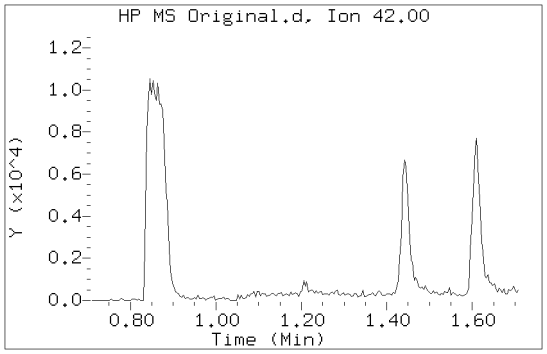

AFTER

MASS
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AREA
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HEIGHT
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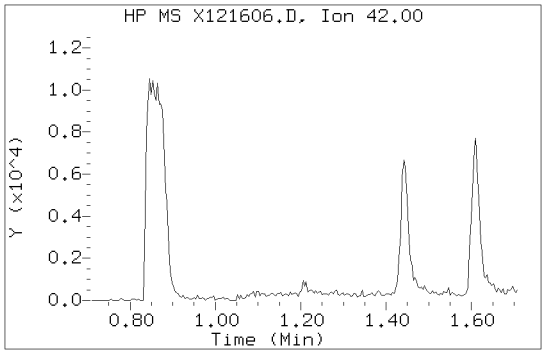
27-Dec-2022
16:07
linh
pham



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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

MASS
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AREA
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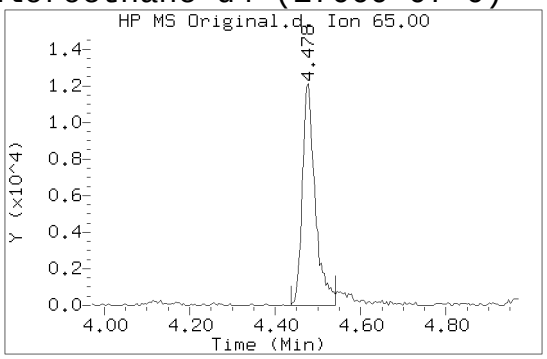
HEIGHT
12121
27-Dec-2022
16:03
linh
pham



AFTER

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27-Dec-2022
16:07
linh
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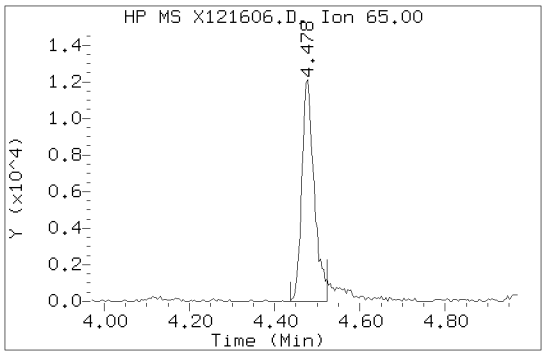

BEFORE

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HEIGHT
2873
27-Dec-2022
16:03
linh
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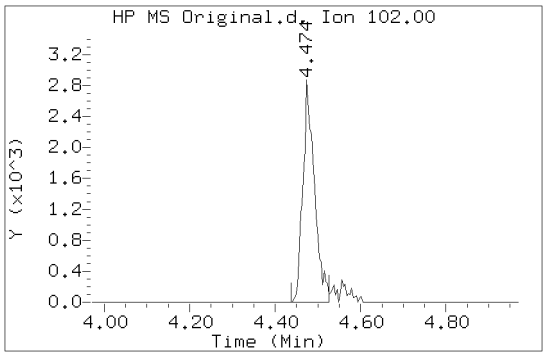

AFTER

MASS
102
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HEIGHT
2873
27-Dec-2022
16:07
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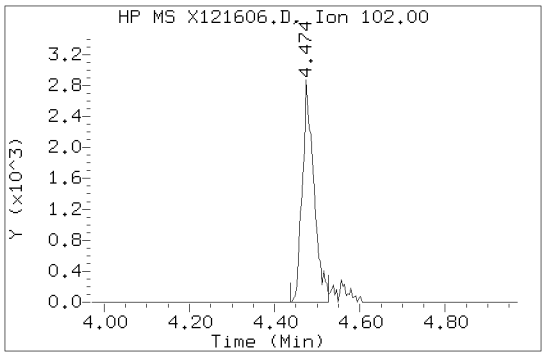
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 16-DEC-2022 13:43
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 13:23 Cal File: X121606.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	459407	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	16105	400.000	383.50(M)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	58280	20.0000	18.48
25 Methacrylonitrile	41	3.821	3.821	(0.915)	62911	20.0000	19.33
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	201008	400.000	388.99
13 Acetonitrile	39	2.195	2.195	(0.525)	81163	200.000	194.11
14 Allyl Chloride	41	2.195	2.195	(0.525)	150748	20.0000	18.93
4 Propionitrile	54	3.653	3.653	(0.874)	85562	200.000	182.52
136 n-Hexane	57	2.768	2.768	(0.663)	65476	20.0000	19.79
72 trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	26140	20.0000	18.70
194 Acetaldehyde	44	1.209	1.209	(0.289)	32393	80.0000	100.98(M)
23 Chloroprene	53	1.767	1.767	(0.423)	27967	20.0000	17.90(M)
145 alpha-Methylstyrene	118	9.261	9.261	(0.958)	155968	20.0000	19.76
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	171978	20.0000	19.62
139 Diethyl ether	59	1.756	1.756	(0.420)	55275	20.0000	18.00
130 Ethyl Acetate	43	3.660	3.660	(0.876)	75163	20.0000	20.96
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	56242	20.0000	17.95
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	58073	20.0000	18.07
132 n-Butanol	56	5.268	5.268	(1.261)	15012	400.000	294.62
142 Tetrahydrofuran	42	3.848	3.848	(0.921)	28221	40.0000	47.81

150	Allyl alcohol	57	2.768	2.768 (0.663)	65476	400.000	366.93
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	331546	20.0000	19.32

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 2
Report Date: 27-Dec-2022 16:07

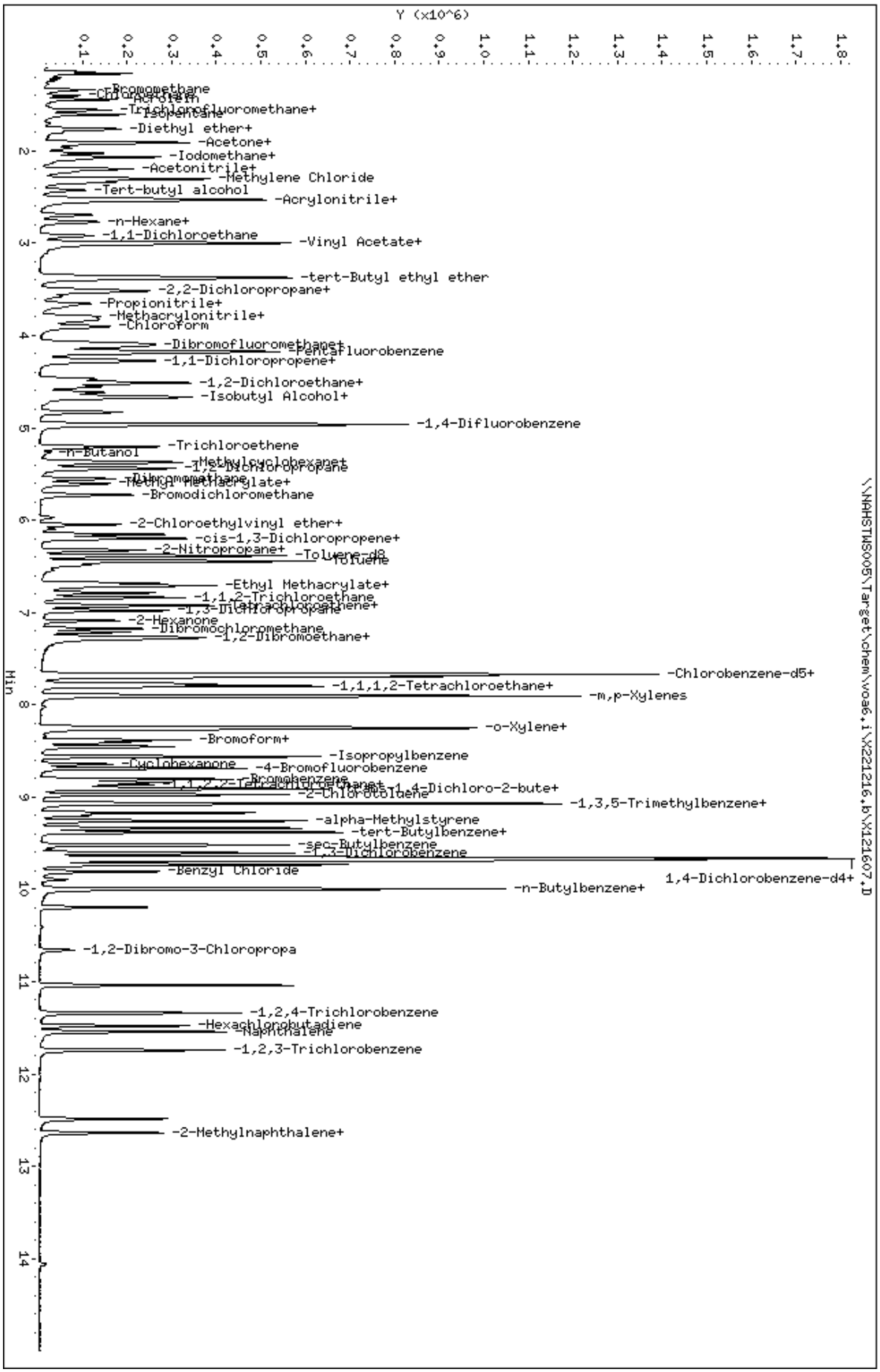
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	131	Methyl Acrylate	55	3.690	3.690	(0.883)	57874	20.0000	18.55(M)
	162	Butyl acrylate	55	8.252	8.252	(1.076)	156518	20.0000	18.50
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	63382	20.0000	19.96
	3	Chloromethane	50	1.077	1.077	(0.258)	72324	20.0000	18.84
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	74461	20.0000	18.55
	6	Bromomethane	94	1.340	1.340	(0.321)	52034	20.0000	18.30
	7	Chloroethane	64	1.400	1.400	(0.335)	52021	20.0000	18.62
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	106188	20.0000	18.90
	9	Acrolein	56	1.441	1.441	(0.345)	12279	40.0000	40.80
	10	Acetone	43	1.973	1.973	(0.472)	50987	40.0000	39.53
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	65650	20.0000	18.82
	15	Iodomethane	142	2.026	2.026	(0.485)	143457	40.0000	34.36
	16	Acrylonitrile	53	2.532	2.532	(0.606)	46552	40.0000	39.36
	17	Methylene Chloride	84	2.303	2.303	(0.551)	94402	20.0000	19.73
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	214504	20.0000	18.79
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	337289	40.0000	36.97
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	74471	20.0000	19.08
	21	Vinyl Acetate	43	2.997	2.997	(0.717)	387538	40.0000	38.68
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	129644	20.0000	18.93
	24	2-Butanone	43	3.578	3.578	(0.856)	47830	40.0000	36.94(H)
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	108952	20.0000	18.73
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	88894	20.0000	18.71
	28	Chloroform	83	3.904	3.904	(0.935)	145610	20.0000	18.96
	29	Bromochloromethane	128	3.795	3.795	(0.908)	47919	20.0000	18.42
$	30	Dibromofluoromethane	113	4.099	4.099	(0.981)	90108	20.0000	20.32
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	116049	20.0000	19.05
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	93914	20.0000	19.38
	33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	108750	20.0000	19.45
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	93815	20.0000	18.13
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	92990	20.0000	20.13
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682389	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	313141	20.0000	19.21
	38	Trichloroethene	130	5.205	5.205	(1.048)	90292	20.0000	19.53
	39	Bromodichloromethane	83	5.726	5.726	(1.153)	116178	20.0000	18.99
	41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	71559	40.0000	41.12
	42	1,2-Dichloropropane	63	5.437	5.437	(1.095)	82954	20.0000	19.13
	44	Dibromomethane	93	5.553	5.553	(1.119)	57196	20.0000	19.41
	45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	138209	40.0000	39.93
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	142141	20.0000	19.79
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	647445	50.0000	
$	48	Toluene-d8	98	6.385	6.385	(0.833)	315179	20.0000	19.70
	50	Toluene	91	6.445	6.445	(0.841)	339968	20.0000	18.99
	51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	116330	20.0000	19.51
	52	2-Hexanone	43	7.086	7.086	(0.924)	93119	40.0000	39.54
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	69855	20.0000	19.45
	54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	137967	20.0000	19.52
	55	Dibromochloromethane	129	7.176	7.176	(0.936)	100749	20.0000	19.44
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	74611	20.0000	20.15
	57	1,2-Dibromoethane	107	7.263	7.263	(0.947)	88886	20.0000	19.80
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	66757	20.0000	20.24
	59	Chlorobenzene	112	7.694	7.694	(1.003)	240885	20.0000	18.97
	60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	90283	20.0000	19.11

61 Ethylbenzene	106	7.799	7.799 (1.017)	117560	20.0000	19.66
62 m,p-Xylenes	106	7.904	7.904 (1.031)	299082	40.0000	38.80

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	147602	20.0000	19.40
	64 Styrene	104	8.260	8.260	(1.077)	253280	20.0000	19.86
	66 Bromoform	173	8.410	8.410	(1.097)	69137	20.0000	19.25
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	344283	20.0000	19.80
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	112594	20.0000	19.83
$	69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	116878	20.0000	19.58
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356229	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	76967	20.0000	19.41
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	404399	20.0000	20.49
	74 Bromobenzene	156	8.803	8.803	(0.911)	117586	20.0000	20.11
	75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	295026	20.0000	20.23
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	256591	20.0000	19.81
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	294244	20.0000	19.93
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	242174	20.0000	20.29
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	305461	20.0000	19.91
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	326826	20.0000	20.58
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	294187	20.0000	20.67
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	197278	20.0000	20.33
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	207572	20.0000	19.60
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	163895	20.0000	17.99
	87 n-Butylbenzene	91	9.995	9.995	(1.035)	248190	20.0000	19.23
	88 1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	201166	20.0000	20.13
	89 1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	18635	20.0000	20.58
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	130463	20.0000	20.69
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	55912	20.0000	20.12
	92 Naphthalene	128	11.544	11.544	(1.195)	300432	20.0000	20.94
	93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	124401	20.0000	20.60
M	94 1,2-Dichloroethylene (total)	96				163365	40.0000	
M	95 Xylenes (total)	106				446684	60.0000	
	141 Cyclohexane	56	4.118	4.118	(0.986)	84355	20.0000	19.01(M)
	138 Freon TF	101	1.910	1.910	(0.457)	64657	20.0000	19.17
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	172044	20.0000	20.59
	146 Methyl Acetate	43	2.228	2.228	(0.533)	38475	20.0000	18.61
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	117583	400.000	369.63
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	61646	400.000	371.06

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6.i
Operator: PC
Column diameter: 0.18
Page 1
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-Chloroethane
-Acrolein
-Trichlorofluoromethane+
-Isopentane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-n-Butanol
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-2-Nitropropane+
-Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-Tetrachloroethene+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-Cyclohexanone
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene+

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Inj Date : 16-DEC-2022 13:43
InstruID : voa6.i
LabSampID : VSTD020

Chloroprene (126-99-8)

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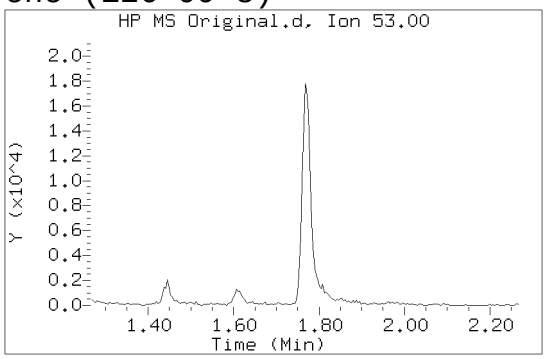

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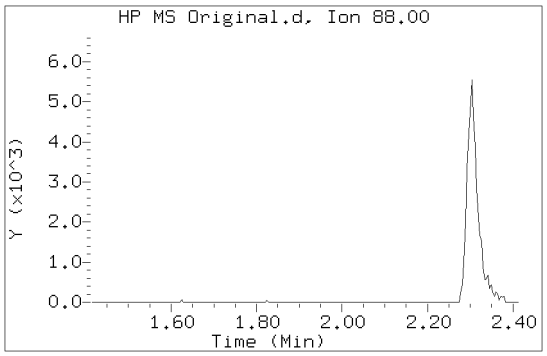

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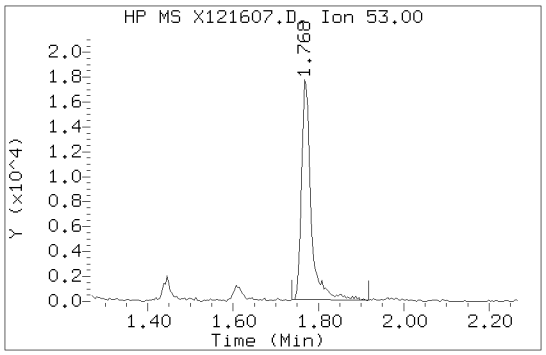

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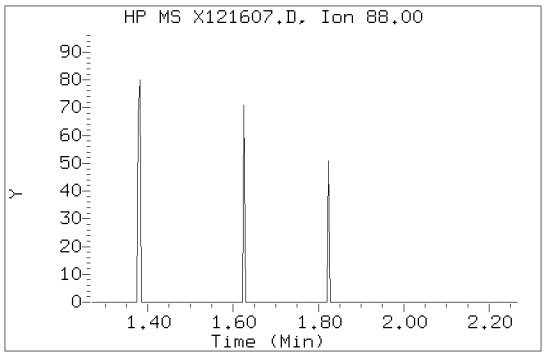

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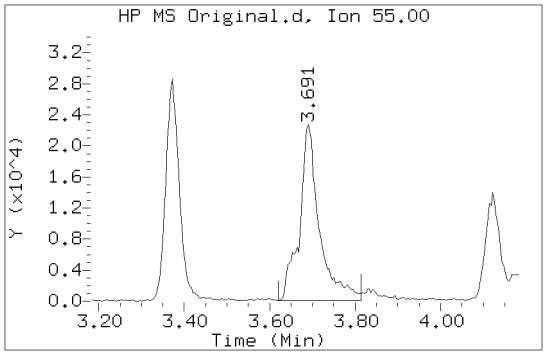

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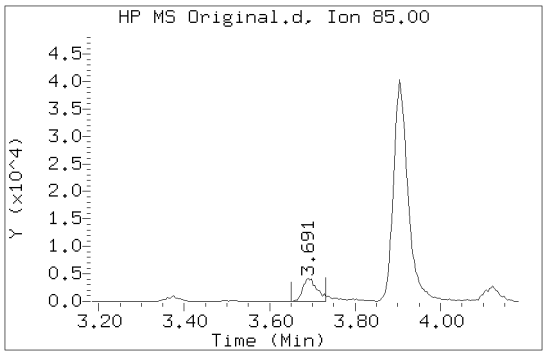

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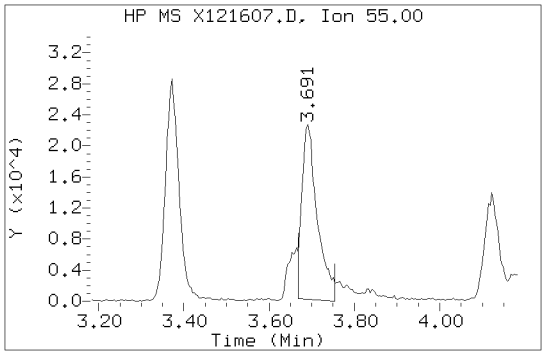

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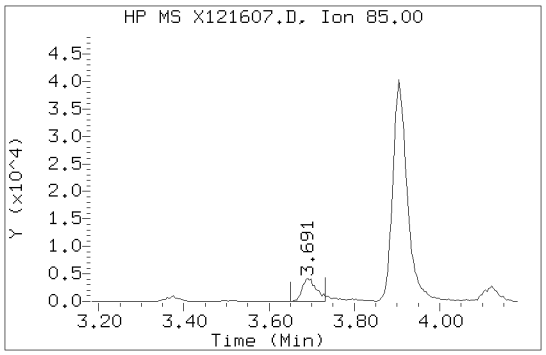

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InstruID : voa6.i
LabSampID : VSTD020

1,4-Dioxane ()

Reason Code:

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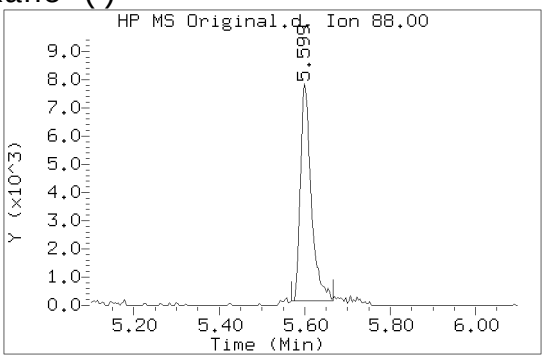

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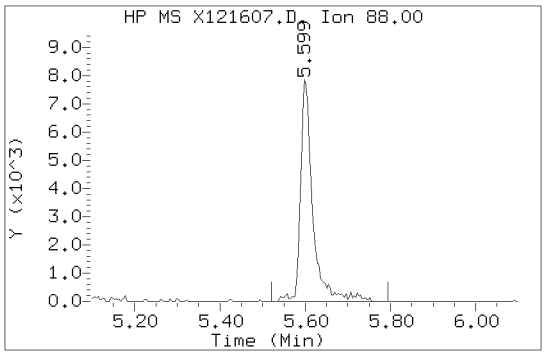

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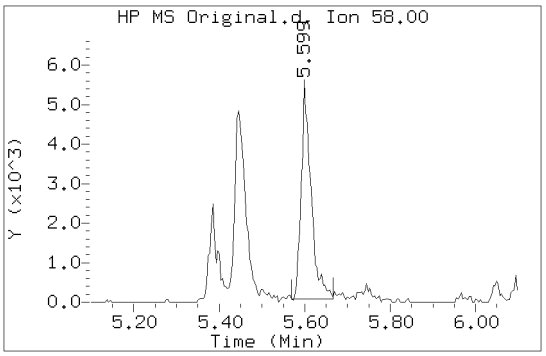

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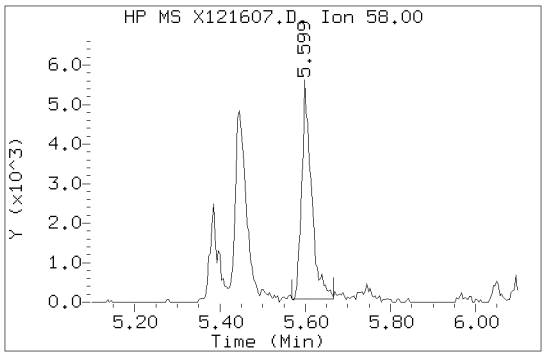

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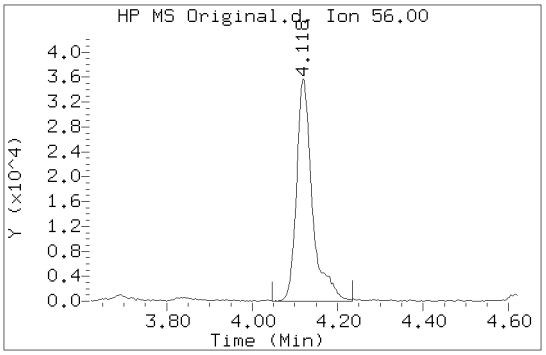

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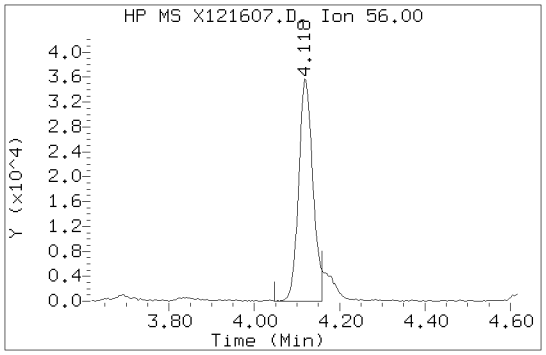

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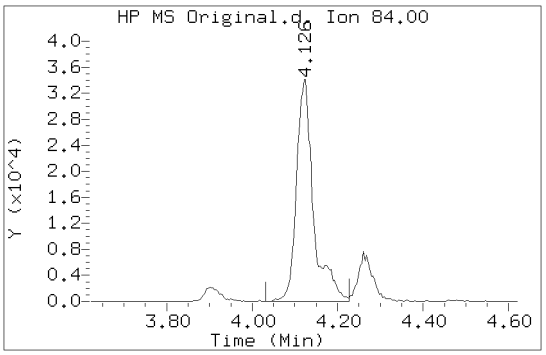

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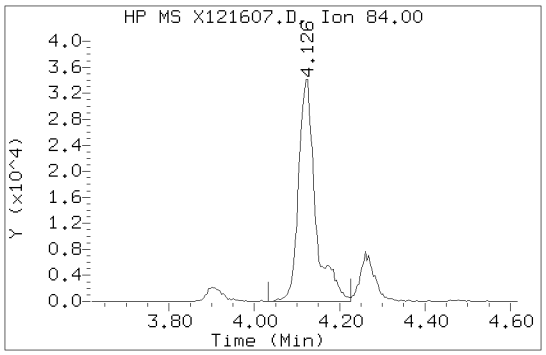

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InstruID : voa6.i
LabSampID : VSTD020

Cyclohexane (110-82-7)

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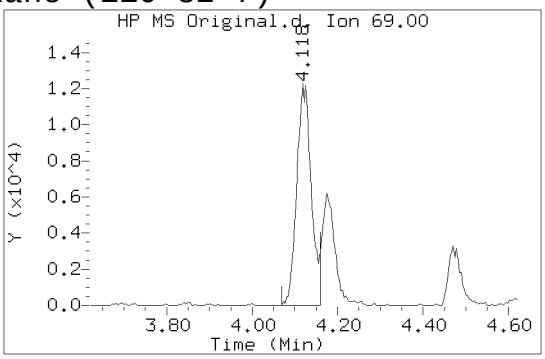

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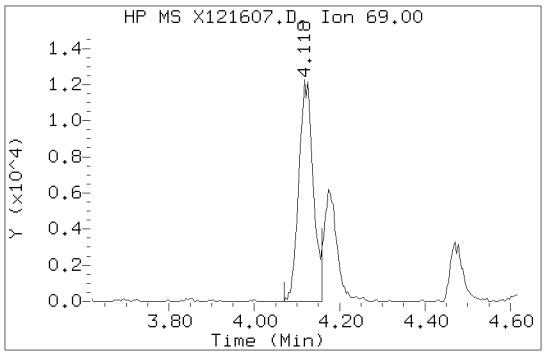

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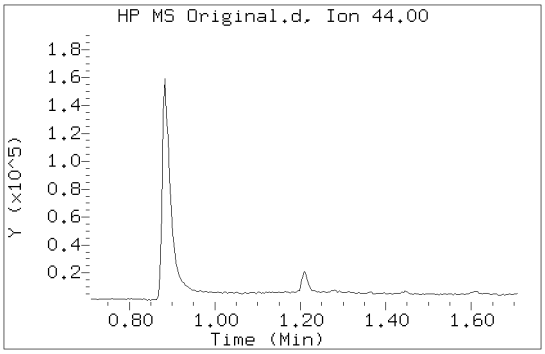

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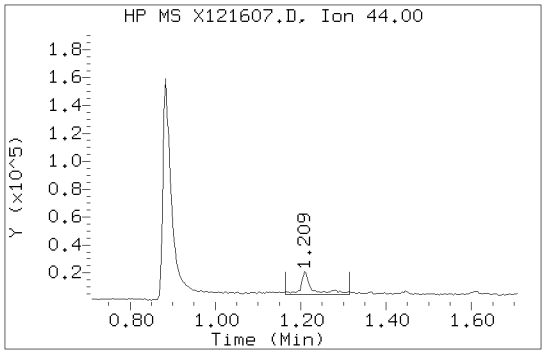

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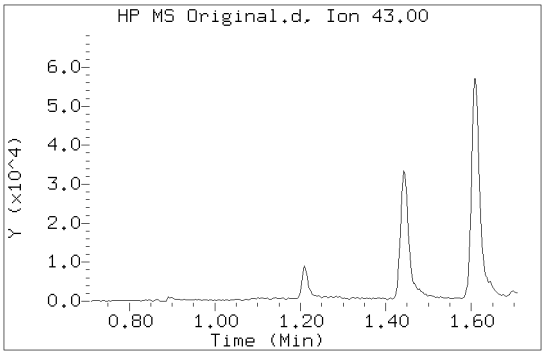

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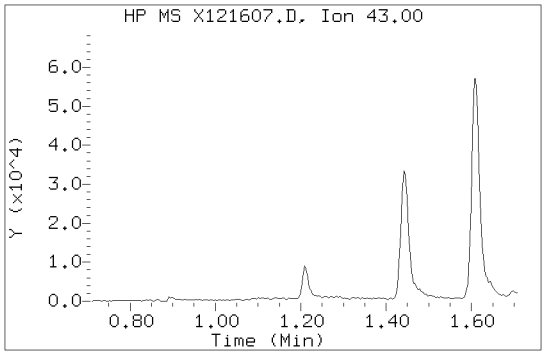

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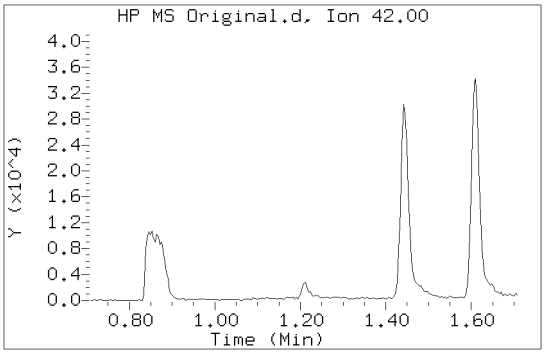

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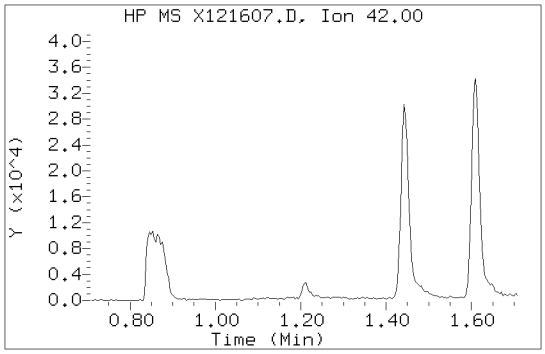

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Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D
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Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 13:43 Cal File: X121607.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	457591	50.0000	
135 1,4-Dioxane	88	5.595	5.595	(1.339)	40509	1000.00	968.45
140 1,3-Butadiene	54	1.160	1.160	(0.278)	152324	50.0000	48.50
25 Methacrylonitrile	41	3.821	3.821	(0.915)	147931	50.0000	45.65
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	499872	1000.00	971.21
13 Acetonitrile	39	2.195	2.195	(0.525)	202696	500.000	486.70
14 Allyl Chloride	41	2.195	2.195	(0.525)	372130	50.0000	46.91
4 Propionitrile	54	3.645	3.645	(0.873)	221995	500.000	475.45
136 n-Hexane	57	2.768	2.768	(0.663)	182358	50.0000	55.34
72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	70497	50.0000	50.03
194 Acetaldehyde	44	1.209	1.209	(0.289)	67188	200.000	235.49(M)
23 Chloroprene	53	1.767	1.767	(0.423)	73877	50.0000	47.48(M)
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	423646	50.0000	51.17
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	438695	50.0000	49.65
139 Diethyl ether	59	1.756	1.756	(0.420)	141705	50.0000	46.34
130 Ethyl Acetate	43	3.649	3.649	(0.873)	170590	50.0000	47.77
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	147516	50.0000	47.27
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	144135	50.0000	44.17
132 n-Butanol	56	5.253	5.253	(1.257)	54418	1000.00	935.85
142 Tetrahydrofuran	42	3.844	3.844	(0.920)	58181	100.000	102.34

150	Allyl alcohol	57	2.768	2.768 (0.663)	182358	1000.00	1026.00
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	826758	50.0000	45.95

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 2
Report Date: 27-Dec-2022 16:07

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	131	Methyl Acrylate	55	3.683	3.683	(0.882)	151068	50.0000	48.62(M)
	162	Butyl acrylate	55	8.252	8.252	(1.076)	415774	50.0000	48.76
	2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	160392	50.0000	50.11
	3	Chloromethane	50	1.077	1.077	(0.258)	192710	50.0000	46.69
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	201812	50.0000	50.48
	6	Bromomethane	94	1.336	1.336	(0.320)	139689	50.0000	46.33
	7	Chloroethane	64	1.400	1.400	(0.335)	134745	50.0000	48.43
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	278013	50.0000	49.70
	9	Acrolein	56	1.441	1.441	(0.345)	27445	100.000	88.04
	10	Acetone	43	1.970	1.970	(0.472)	124798	100.000	97.19
	11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	168905	50.0000	48.63
	15	Iodomethane	142	2.022	2.022	(0.484)	455792	100.000	99.60
	16	Acrylonitrile	53	2.528	2.528	(0.605)	118697	100.000	100.77
	17	Methylene Chloride	84	2.300	2.300	(0.550)	225642	50.0000	47.36
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	534667	50.0000	47.03
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	892690	100.000	98.24
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	191505	50.0000	49.27
	21	Vinyl Acetate	43	2.993	2.993	(0.716)	983875	100.000	98.59
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	330037	50.0000	48.38
	24	2-Butanone	43	3.574	3.574	(0.856)	130179	100.000	95.71(H)
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	283996	50.0000	49.03
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	228729	50.0000	48.35
	28	Chloroform	83	3.904	3.904	(0.935)	370755	50.0000	48.49
	29	Bromochloromethane	128	3.788	3.788	(0.907)	120638	50.0000	46.58
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	211939	50.0000	48.23
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	300650	50.0000	49.56
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	256928	50.0000	52.23
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	276500	50.0000	48.70
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	251833	50.0000	47.94
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	222293	50.0000	47.94
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	692830	50.0000	
	37	Benzene	78	4.507	4.507	(0.908)	812279	50.0000	49.09
	38	Trichloroethene	130	5.205	5.205	(1.048)	233833	50.0000	49.83
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	297315	50.0000	47.88
	41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	180920	100.000	102.42
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	215079	50.0000	48.87
	44	Dibromomethane	93	5.553	5.553	(1.119)	143223	50.0000	47.87
	45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	336990	100.000	96.59
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	366231	50.0000	50.22
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	652727	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	772486	50.0000	47.89
	50	Toluene	91	6.446	6.446	(0.841)	889029	50.0000	49.27
	51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	309568	50.0000	51.15
	52	2-Hexanone	43	7.087	7.087	(0.924)	232879	100.000	98.10
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	172833	50.0000	47.75
	54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	345991	50.0000	48.56
	55	Dibromochloromethane	129	7.176	7.176	(0.936)	260477	50.0000	49.86
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	194749	50.0000	52.17
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	229442	50.0000	50.70
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	170128	50.0000	50.81
	59	Chlorobenzene	112	7.694	7.694	(1.003)	624151	50.0000	48.77
	60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	235373	50.0000	49.42

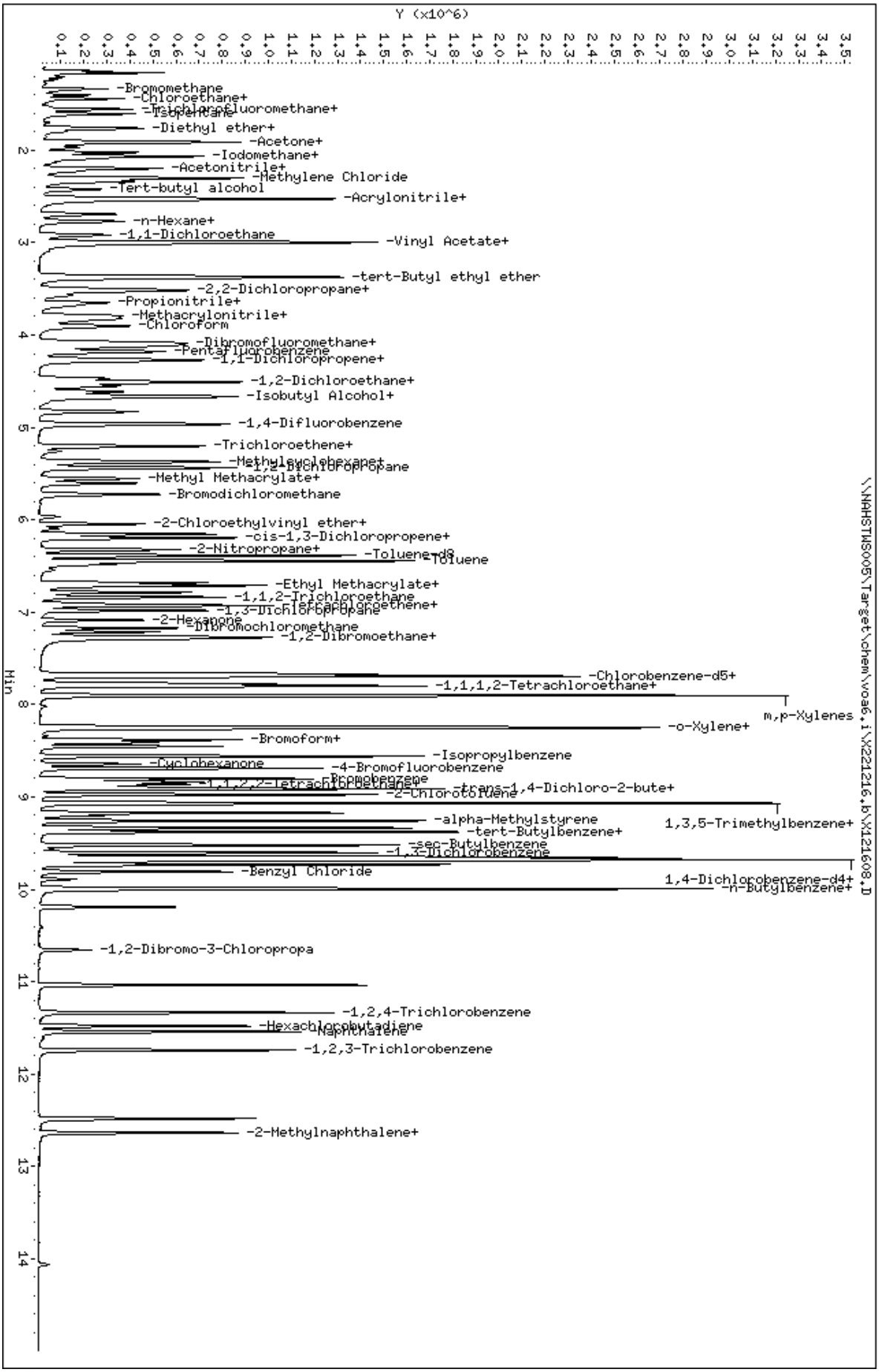
61 Ethylbenzene	106	7.799	7.799 (1.017)	311983	50.0000	51.75
62 m,p-Xylenes	106	7.904	7.904 (1.031)	785955	100.000	101.14

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 3
Report Date: 27-Dec-2022 16:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	385427	50.0000	50.25
	64 Styrene	104	8.260	8.260	(1.077)	673066	50.0000	52.35
	66 Bromoform	173	8.410	8.410	(1.097)	181492	50.0000	50.14
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	920845	50.0000	52.55
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	276483	50.0000	46.43
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	292753	50.0000	48.55
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	373588	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	199888	50.0000	48.08(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1085689	50.0000	52.46
	74 Bromobenzene	156	8.803	8.803	(0.911)	299078	50.0000	48.79
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	793494	50.0000	51.90
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	670422	50.0000	49.37
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	782927	50.0000	50.57
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	652461	50.0000	52.14
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	815460	50.0000	50.69
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	889679	50.0000	53.43
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	810483	50.0000	54.32
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	520329	50.0000	51.14
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	544362	50.0000	49.03
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	472387	50.0000	46.44
	87 n-Butylbenzene	91	9.995	9.995	(1.035)	696355	50.0000	48.48
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	519532	50.0000	49.58
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48660	50.0000	51.11
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	355455	50.0000	53.75
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	155390	50.0000	52.99
	92 Naphthalene	128	11.540	11.540	(1.194)	799829	50.0000	53.16
	93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	320836	50.0000	50.66
M	94 1,2-Dichloroethylene (total)	96				420234	100.000	
M	95 Xylenes (total)	106				1171382	150.000	
	141 Cyclohexane	56	4.121	4.121	(0.987)	237699	50.0000	51.49
	138 Freon TF	101	1.913	1.913	(0.458)	172155	50.0000	51.25
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	420886	50.0000	49.62
	146 Methyl Acetate	43	2.228	2.228	(0.533)	96420	50.0000	46.82
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	302677	1000.00	955.26
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	157082	1000.00	949.28

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

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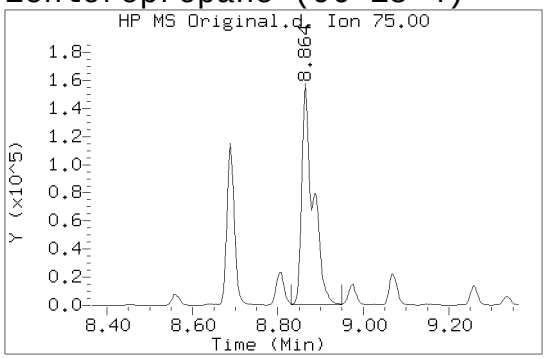

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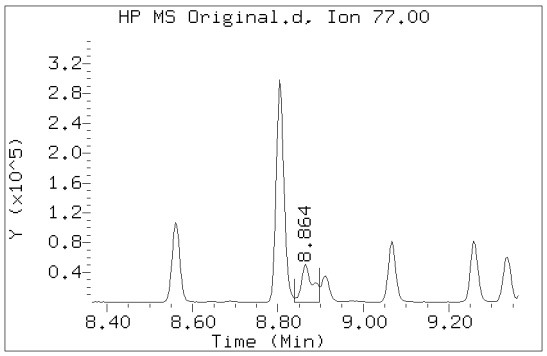

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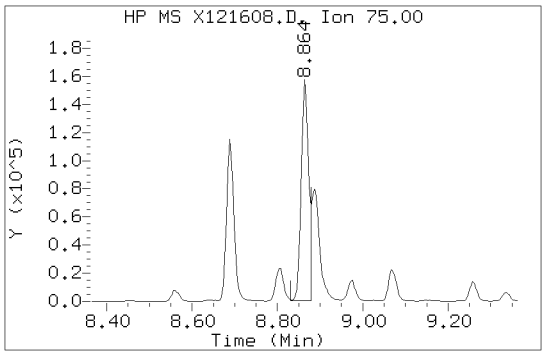

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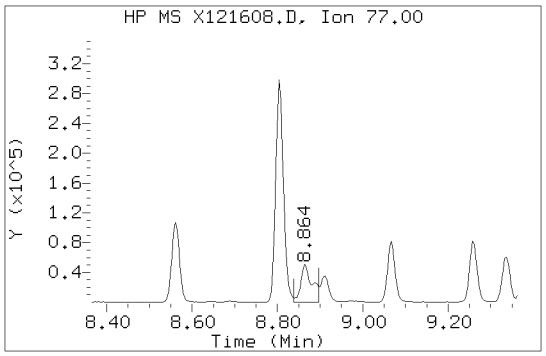

Chloroprene (126-99-8)

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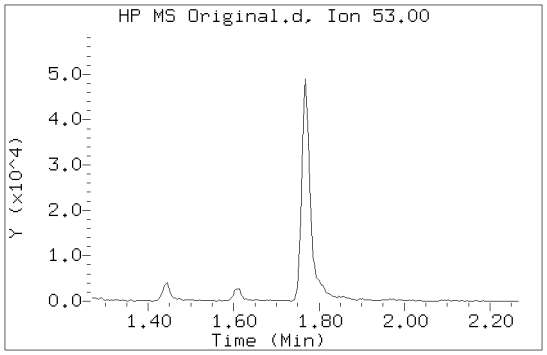

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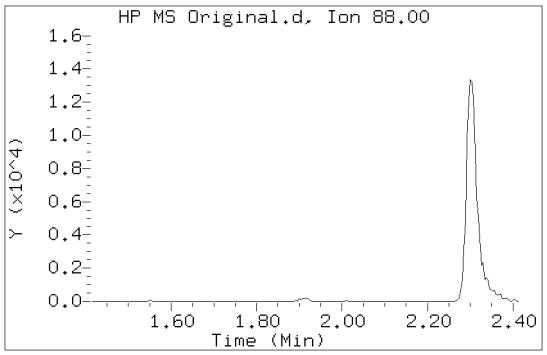

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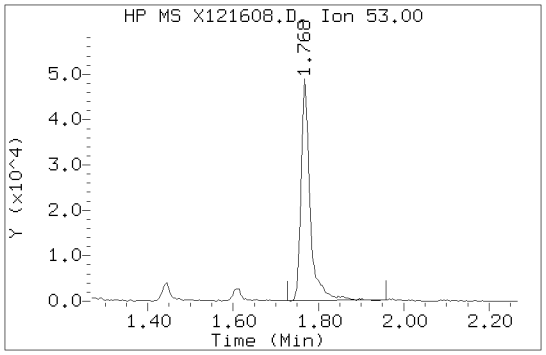

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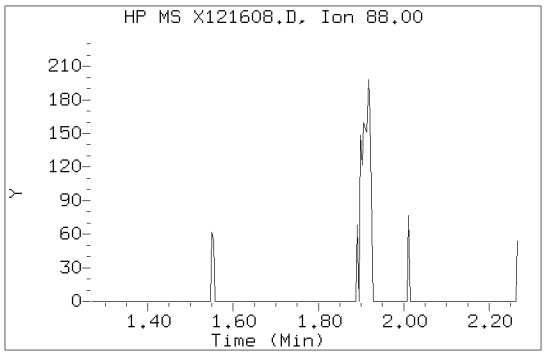

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Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

Methyl Acrylate (96-33-3)

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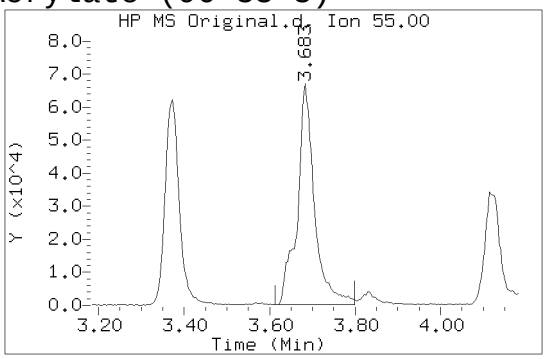

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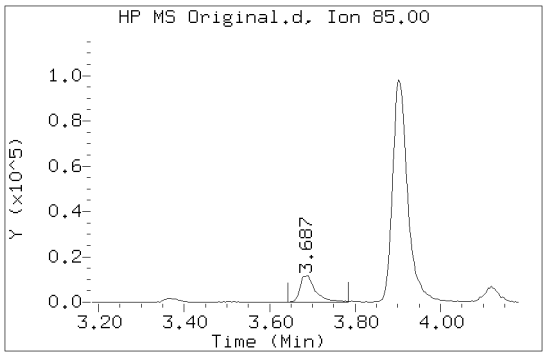

Reason Code:

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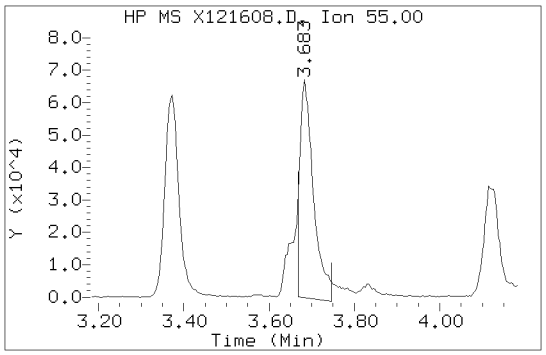

AFTER

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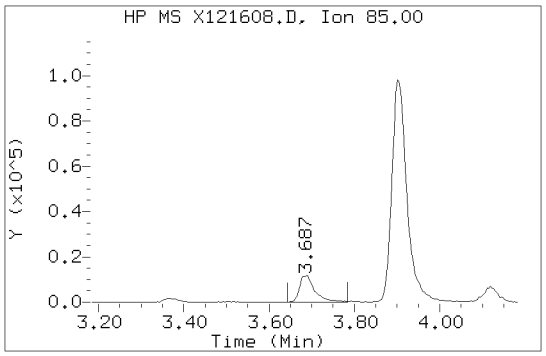

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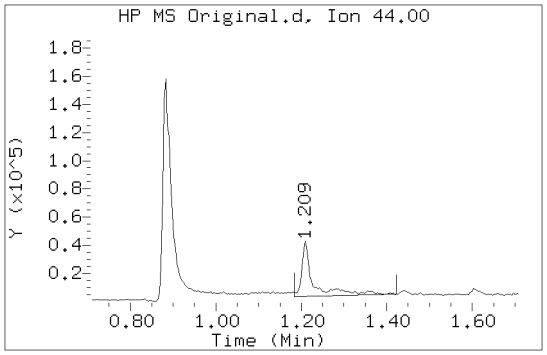

BEFORE

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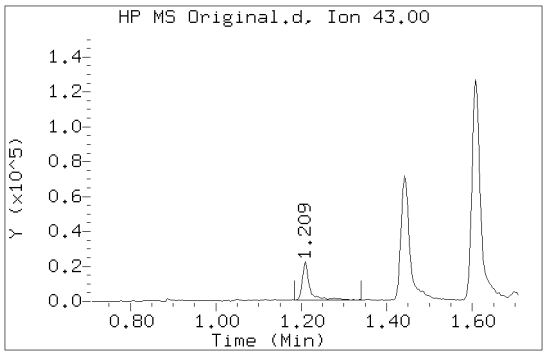

Reason Code:

AFTER

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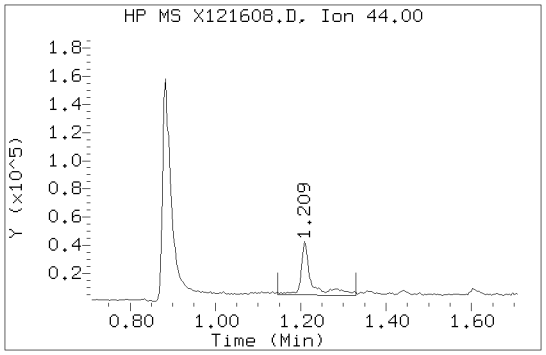

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16:06
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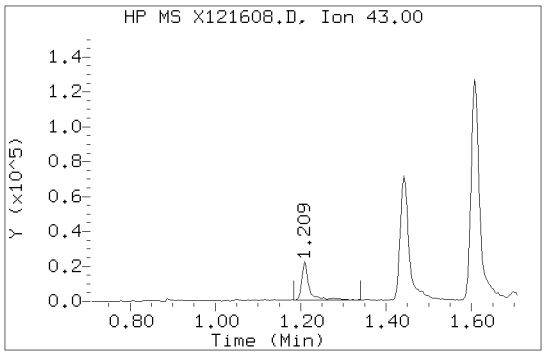
pham



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Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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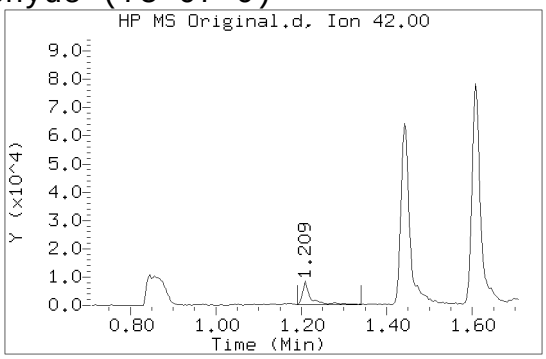
HEIGHT
8504
27-Dec-2022
16:03
linh
pham



AFTER

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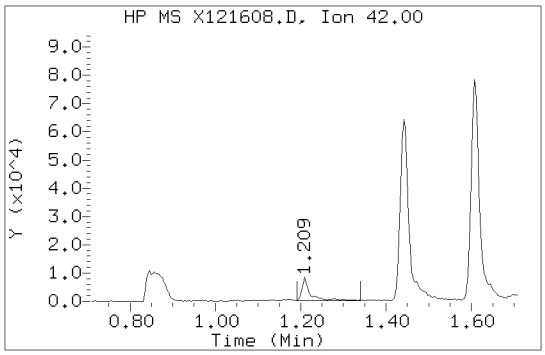


Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 16-DEC-2022 14:25
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	454640	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	80329	2000.00	1932.89
140 1,3-Butadiene	54	1.160	1.160	(0.278)	300004	100.000	96.14
25 Methacrylonitrile	41	3.822	3.822	(0.915)	296105	100.000	91.97
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	1010956	2000.00	1976.95
13 Acetonitrile	39	2.195	2.195	(0.525)	413876	1000.00	1000.23
14 Allyl Chloride	41	2.195	2.195	(0.525)	756242	100.000	95.96
4 Propionitrile	54	3.645	3.645	(0.873)	447087	1000.00	963.76
136 n-Hexane	57	2.768	2.768	(0.663)	330416	100.000	100.93
72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	144667	100.000	100.47
194 Acetaldehyde	44	1.209	1.209	(0.289)	107798	400.000	394.60(M)
23 Chloroprene	53	1.767	1.767	(0.423)	146540	100.000	94.79(M)
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	857105	100.000	100.18
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	912573	100.000	101.09
139 Diethyl ether	59	1.752	1.752	(0.420)	288002	100.000	94.80
130 Ethyl Acetate	43	3.649	3.649	(0.873)	318062	100.000	89.65
40 Methyl Methacrylate	41	5.606	5.606	(1.342)	295199	100.000	95.22
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	311883	100.000	96.06
132 n-Butanol	56	5.253	5.253	(1.258)	124057	2000.00	1971.40
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	109518	200.000	196.74

150	Allyl alcohol	57	2.768	2.768 (0.663)	330416	2000.00	1871.09
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	1772216	100.000	95.31

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 2
Report Date: 27-Dec-2022 16:07

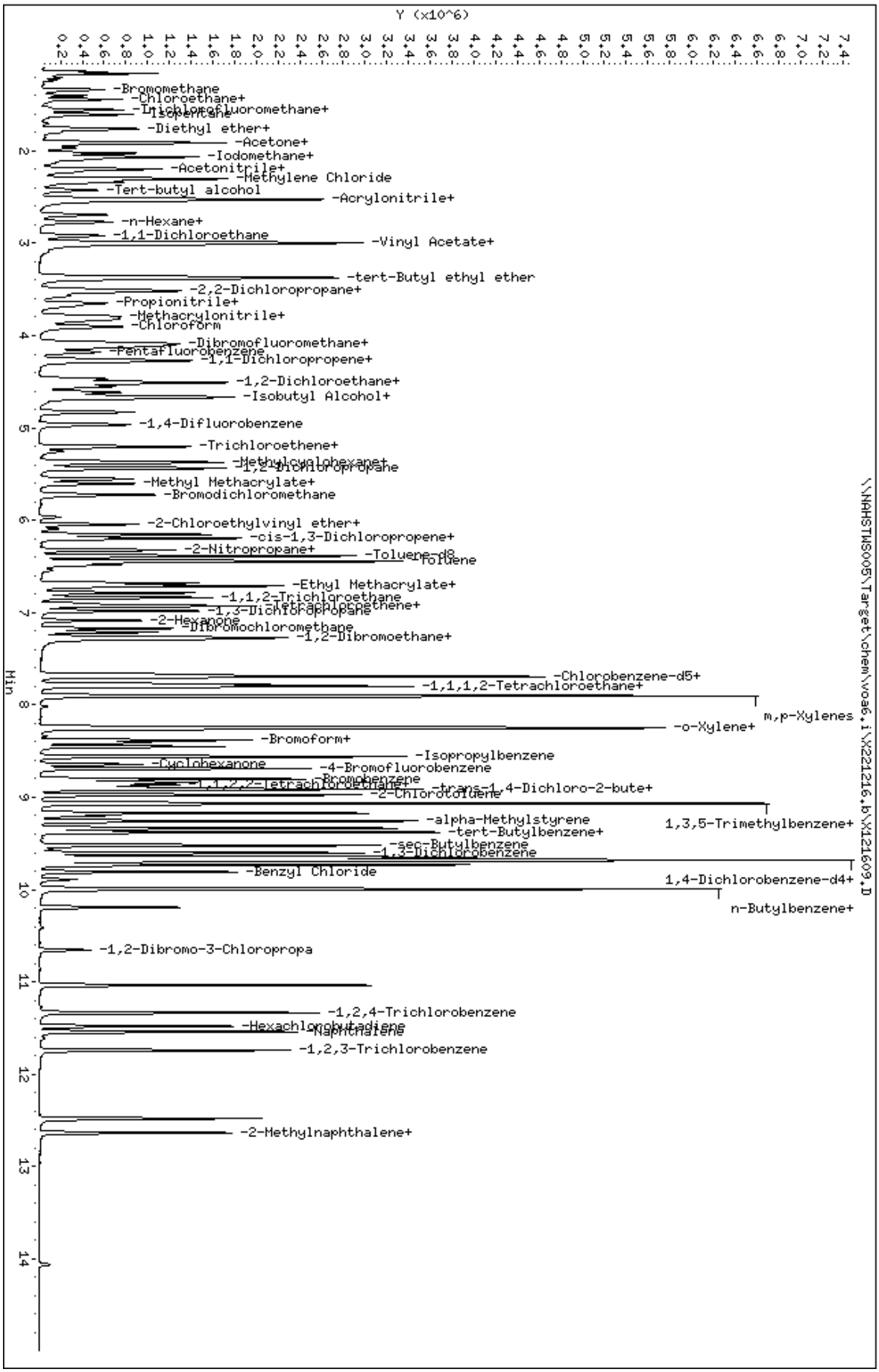
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	131	Methyl Acrylate	55	3.683	3.683	(0.882)	308372	100.000	99.90(M)
	162	Butyl acrylate	55	8.249	8.249	(1.076)	901265	100.000	103.44
	2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	309019	100.000	96.81
	3	Chloromethane	50	1.078	1.078	(0.258)	388163	100.000	92.40
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	390567	100.000	98.34
	6	Bromomethane	94	1.336	1.336	(0.320)	284165	100.000	93.02
	7	Chloroethane	64	1.400	1.400	(0.335)	261091	100.000	94.45
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	543907	100.000	97.86
	9	Acrolein	56	1.441	1.441	(0.345)	60756	200.000	192.70
	10	Acetone	43	1.970	1.970	(0.472)	243517	200.000	190.92
	11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	329394	100.000	95.46
	15	Iodomethane	142	2.026	2.026	(0.485)	958603	200.000	197.72
	16	Acrylonitrile	53	2.528	2.528	(0.605)	235604	200.000	201.32
	17	Methylene Chloride	84	2.300	2.300	(0.550)	423827	100.000	89.54
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1078258	100.000	95.46
	19	Carbon Disulfide	76	2.063	2.063	(0.494)	1765599	200.000	195.57
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	376933	100.000	97.60
	21	Vinyl Acetate	43	2.993	2.993	(0.716)	1955305	200.000	197.21
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	641083	100.000	94.59
	24	2-Butanone	43	3.570	3.570	(0.855)	264221	200.000	192.38(H)
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	554902	100.000	96.43
	27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	443532	100.000	94.37
	28	Chloroform	83	3.904	3.904	(0.935)	715830	100.000	94.23
	29	Bromochloromethane	128	3.792	3.792	(0.908)	239022	100.000	92.88
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	438954	100.000	100.72
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	583361	100.000	96.79
	32	1,1-Dichloropropene	75	4.275	4.275	(0.861)	496096	100.000	101.35
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	553661	100.000	98.01
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	487488	100.000	93.26
$	35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	455890	100.000	98.67
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	689427	50.0000	
	37	Benzene	78	4.508	4.508	(0.908)	1590142	100.000	96.58
	38	Trichloroethene	130	5.205	5.205	(1.048)	456948	100.000	97.85
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	587419	100.000	95.07
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	345852	200.000	196.75
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	420835	100.000	96.09
	44	Dibromomethane	93	5.550	5.550	(1.118)	280146	100.000	94.11
	45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	671115	200.000	188.25
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	735867	100.000	101.41
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	666948	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	1602890	100.000	97.25
	50	Toluene	91	6.446	6.446	(0.841)	1761917	100.000	95.57
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	618784	100.000	102.75
	52	2-Hexanone	43	7.087	7.087	(0.924)	458639	200.000	189.09
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	342194	100.000	92.52
	54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	682500	100.000	93.75
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	521219	100.000	97.64
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	373651	100.000	97.96
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	453499	100.000	98.07
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	326538	100.000	98.00
	59	Chlorobenzene	112	7.694	7.694	(1.003)	1229287	100.000	94.01
	60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	472962	100.000	97.19

61 Ethylbenzene	106	7.799	7.799 (1.017)	612289	100.000	99.40
62 m,p-Xylenes	106	7.904	7.904 (1.031)	1556563	200.000	196.03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	767814	100.000	97.97
	64 Styrene	104	8.260	8.260	(1.077)	1350780	100.000	102.83
	66 Bromoform	173	8.410	8.410	(1.097)	367943	100.000	99.50
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1818857	100.000	101.58
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	554091	100.000	90.03
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	615584	100.000	99.86
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386107	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	407425	100.000	94.83(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	2152414	100.000	100.64
	74 Bromobenzene	156	8.803	8.803	(0.911)	602819	100.000	95.16
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1603520	100.000	101.49
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	1326500	100.000	94.51
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1587855	100.000	99.24
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	1287608	100.000	99.56
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1640529	100.000	98.68
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1778581	100.000	103.36
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	1606121	100.000	104.16
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	1039293	100.000	98.84
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1114780	100.000	97.16
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	1009234	100.000	94.18
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	1425779	100.000	94.31
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1054319	100.000	97.36
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	94321	100.000	95.78
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	697257	100.000	102.03
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	299042	100.000	97.63
	92 Naphthalene	128	11.540	11.540	(1.194)	1592534	100.000	102.42
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	642199	100.000	98.12
M	94 1,2-Dichloroethylene (total)	96				820465	200.000	
M	95 Xylenes (total)	106				2324377	300.000	
	141 Cyclohexane	56	4.118	4.118	(0.986)	432198	100.000	93.19
	138 Freon TF	101	1.913	1.913	(0.458)	327614	100.000	98.16
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	862071	100.000	102.15(A)
	146 Methyl Acetate	43	2.228	2.228	(0.533)	196542	100.000	96.07
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	592215	2000.00	1881.19
	149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	321288	2000.00	1954.21

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D
Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

1,2,3-Trichloropropane (96-18-4)

BEFORE

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HEIGHT
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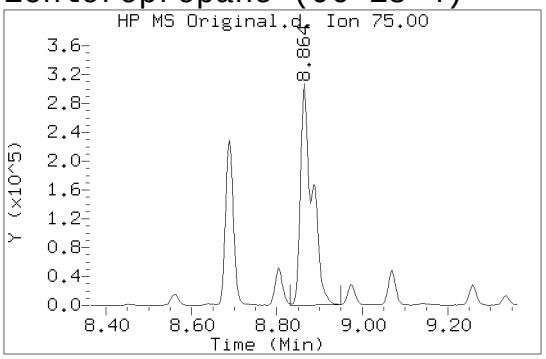
27-Dec-2022
16:03
linh
pham



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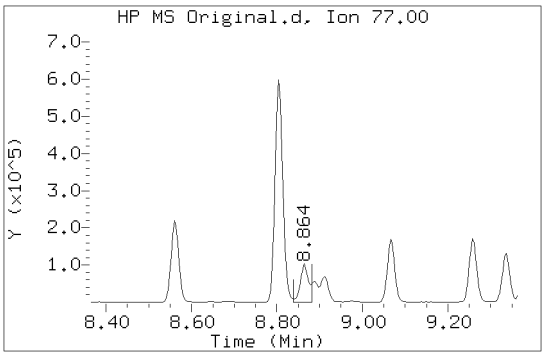

Reason Code:

AFTER

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16:06
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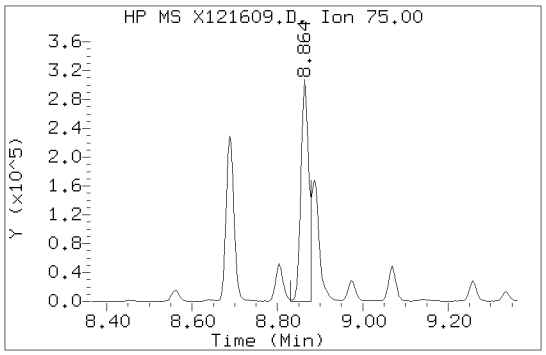

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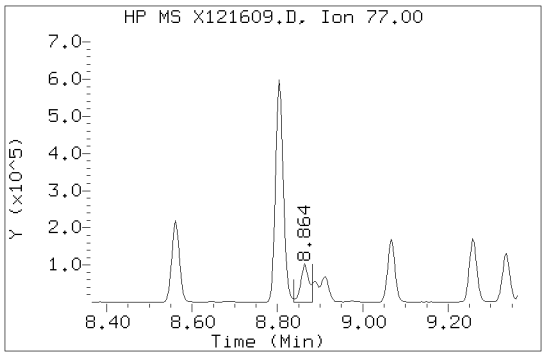

Chloroprene (126-99-8)

BEFORE

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27-Dec-2022
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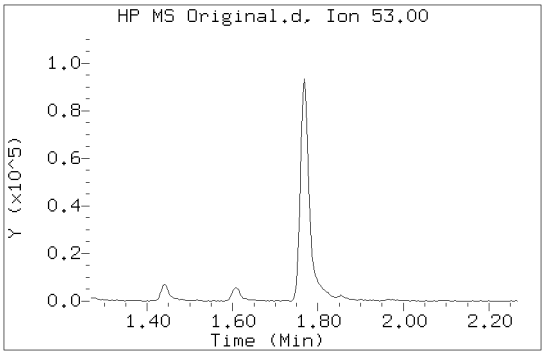

BEFORE

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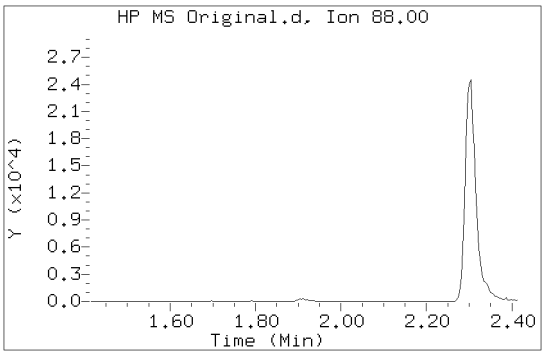

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AFTER

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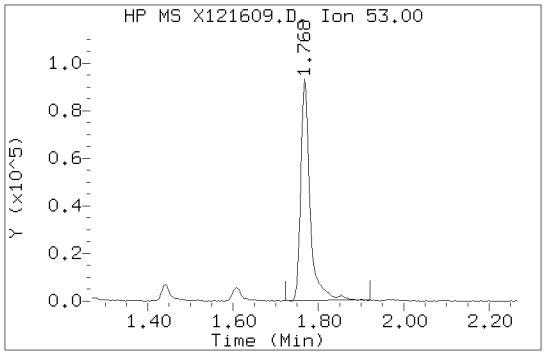

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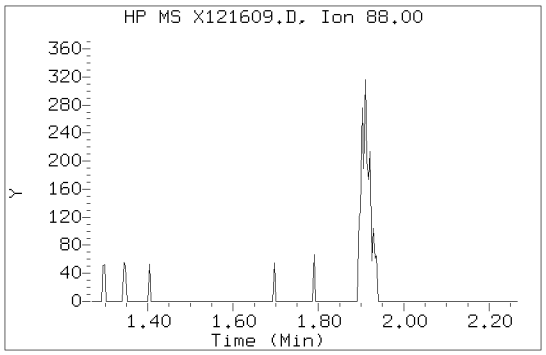

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Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Methyl Acrylate (96-33-3)

BEFORE

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27-Dec-2022
16:03
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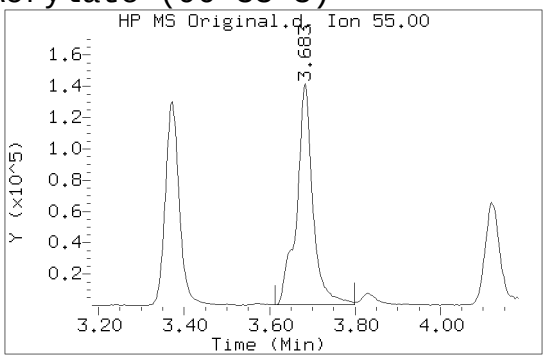

BEFORE

MASS
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16:03
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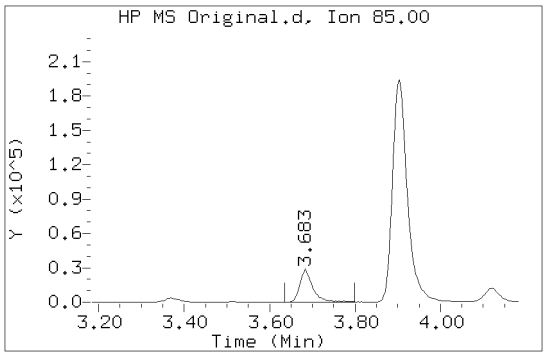

Reason Code:

AFTER

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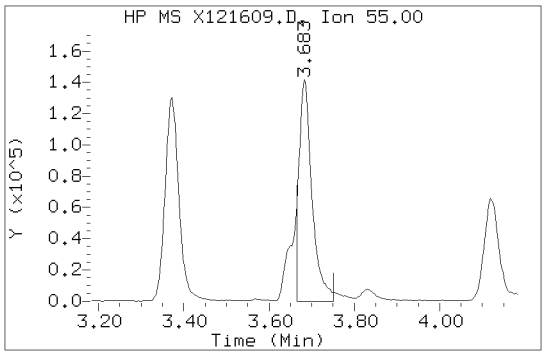

AFTER

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16:06
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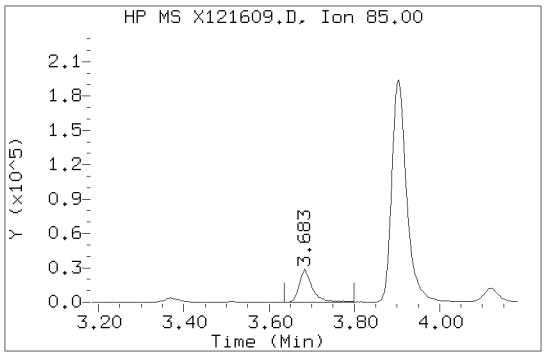

Acetaldehyde (75-07-0)

BEFORE

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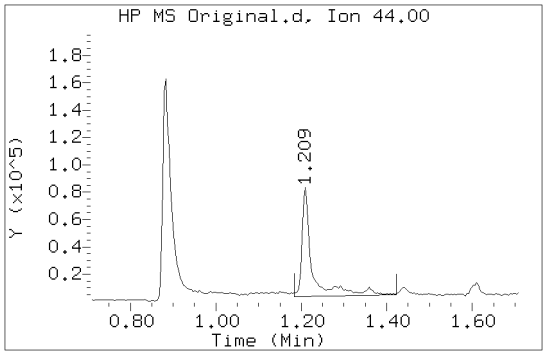

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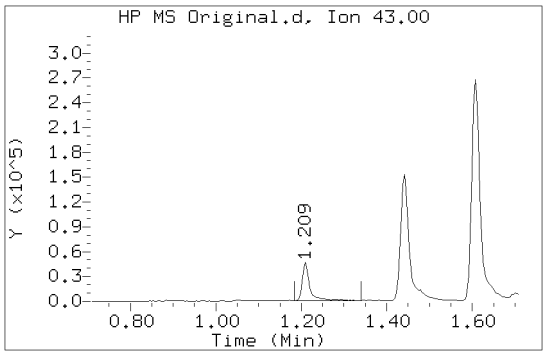

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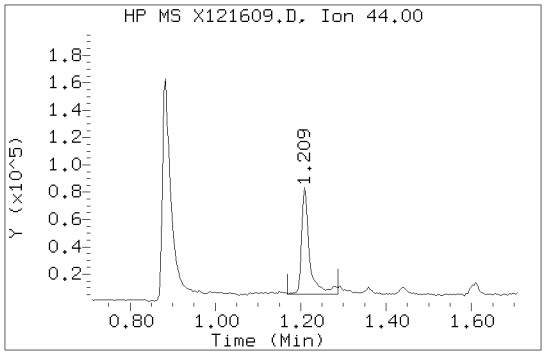

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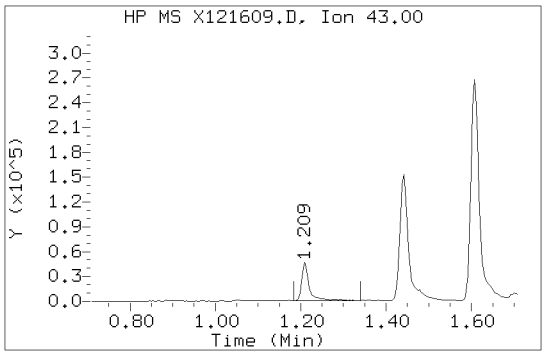

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Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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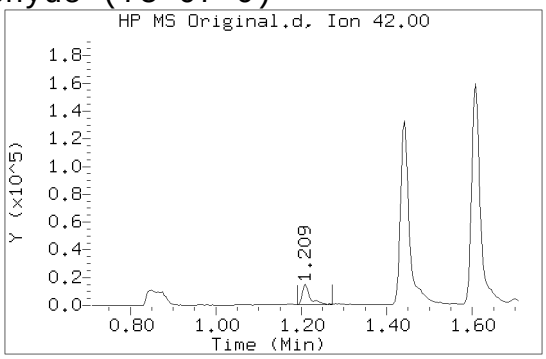

AFTER

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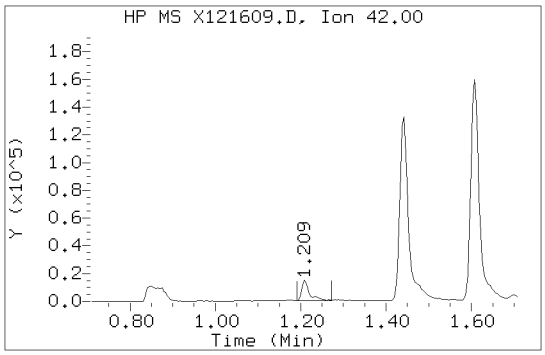

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D
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Inj Date : 16-DEC-2022 14:46
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:25 Cal File: X121609.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.177	4.177	(1.000)	447266	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	128845	3000.00	3151.41
140 1,3-Butadiene	54	1.160	1.160	(0.278)	468966	150.000	152.77
25 Methacrylonitrile	41	3.818	3.818	(0.914)	457301	150.000	144.39
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	1595753	3000.00	3171.99
13 Acetonitrile	39	2.194	2.194	(0.525)	642798	1500.00	1579.09
14 Allyl Chloride	41	2.194	2.194	(0.525)	1164663	150.000	150.22
4 Propionitrile	54	3.649	3.649	(0.873)	694740	1500.00	1522.31
136 n-Hexane	57	2.768	2.768	(0.663)	533876	150.000	165.78
72 trans-1,4-Dichloro-2-butene	53	8.889	8.889	(1.159)	234252	150.000	161.53
194 Acetaldehyde	44	1.209	1.209	(0.289)	161053	600.000	611.34(M)
23 Chloroprene	53	1.767	1.767	(0.423)	225733	150.000	148.43
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	1351001	150.000	157.73
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	1420820	150.000	156.27
139 Diethyl ether	59	1.752	1.752	(0.419)	443624	150.000	148.44
130 Ethyl Acetate	43	3.649	3.649	(0.873)	516433	150.000	147.97
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	465959	150.000	152.78
49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	517063	150.000	157.90
132 n-Butanol	56	5.253	5.253	(1.258)	210842	3000.00	3100.52
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	162133	300.000	297.65

150	Allyl alcohol	57	2.768	2.768 (0.663)	533876	3000.00	3073.09
166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	2744011	150.000	147.41

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 2
Report Date: 27-Dec-2022 16:07

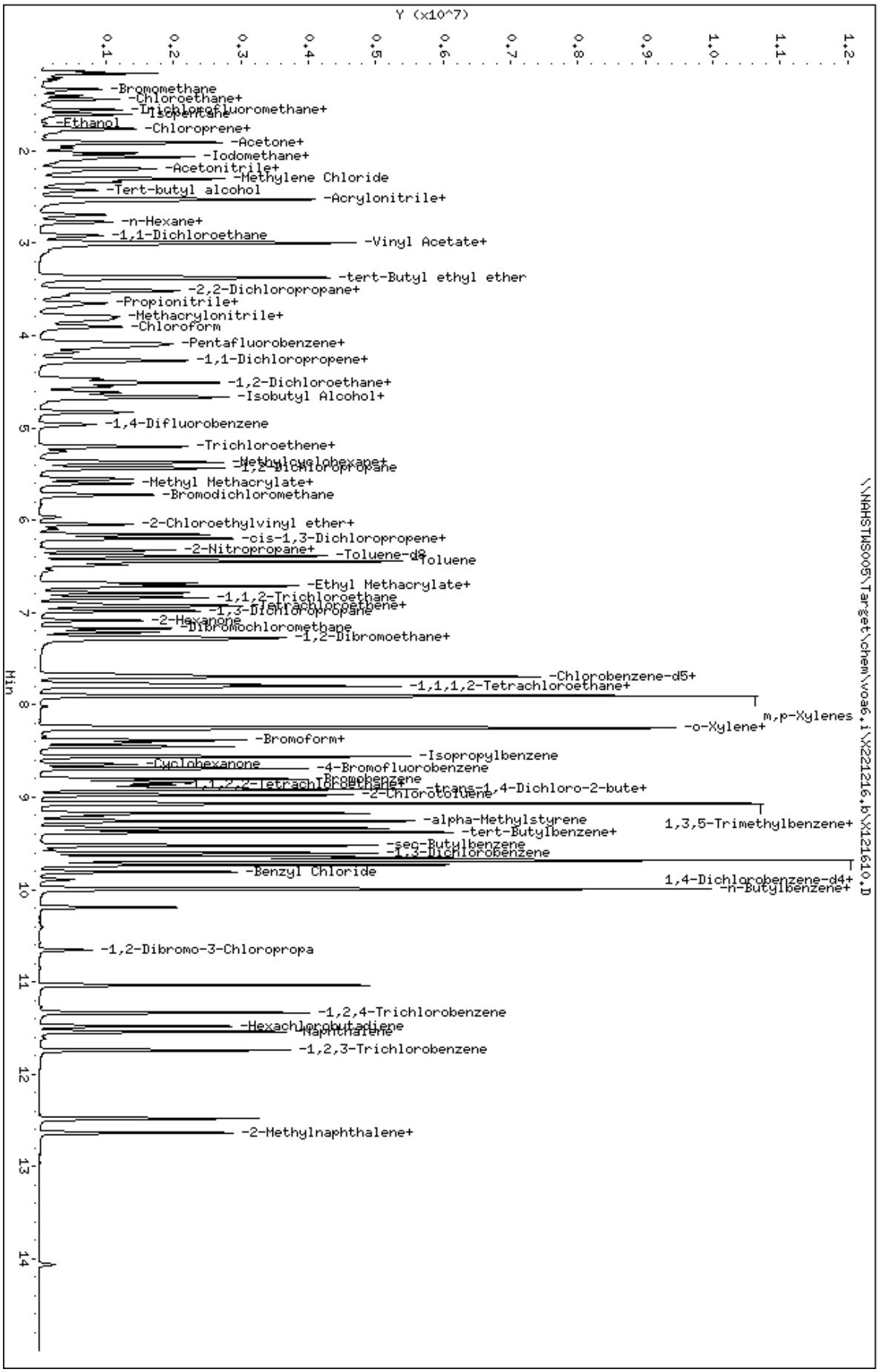
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	131	Methyl Acrylate	55	3.683	3.683	(0.882)	479571	150.000	157.93(M)
	162	Butyl acrylate	55	8.248	8.248	(1.076)	1470193	150.000	167.53
	2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	476130	150.000	151.40
	3	Chloromethane	50	1.077	1.077	(0.258)	621048	150.000	148.89
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	602774	150.000	154.27
	6	Bromomethane	94	1.332	1.332	(0.319)	470318	150.000	155.29
	7	Chloroethane	64	1.400	1.400	(0.335)	409168	150.000	150.45
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	866865	150.000	158.54
	9	Acrolein	56	1.441	1.441	(0.345)	96139	300.000	308.25
	10	Acetone	43	1.969	1.969	(0.472)	373504	300.000	297.68
	11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	516820	150.000	152.24
	15	Iodomethane	142	2.022	2.022	(0.484)	1554547	300.000	304.69
	16	Acrylonitrile	53	2.528	2.528	(0.605)	371872	300.000	323.00
	17	Methylene Chloride	84	2.299	2.299	(0.550)	656037	150.000	140.89
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1661314	150.000	149.51
	19	Carbon Disulfide	76	2.063	2.063	(0.494)	2747788	300.000	309.38
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	579939	150.000	152.65
	21	Vinyl Acetate	43	2.993	2.993	(0.716)	3127175	300.000	320.61
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	993924	150.000	149.06
	24	2-Butanone	43	3.570	3.570	(0.855)	407629	300.000	299.97(H)
	26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	858853	150.000	151.71
	27	cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	693846	150.000	150.07
	28	Chloroform	83	3.904	3.904	(0.935)	1135322	150.000	151.92
	29	Bromochloromethane	128	3.791	3.791	(0.908)	379595	150.000	149.95
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	652724	150.000	152.32
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	907111	150.000	152.99
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	766313	150.000	155.22
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	857022	150.000	150.42
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	758288	150.000	143.83
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	686218	150.000	150.83
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	695375	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	2450385	150.000	147.56
	38	Trichloroethene	130	5.205	5.205	(1.048)	707016	150.000	150.11
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	932632	150.000	149.65
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	534005	300.000	301.19
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	658007	150.000	148.96
	44	Dibromomethane	93	5.549	5.549	(1.118)	444851	150.000	148.16
	45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1052577	300.000	293.14
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1159982	150.000	158.49
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	671780	50.0000	
$	48	Toluene-d8	98	6.385	6.385	(0.833)	2346444	150.000	141.35
	50	Toluene	91	6.445	6.445	(0.841)	2724692	150.000	146.73
	51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	982044	150.000	161.68
	52	2-Hexanone	43	7.086	7.086	(0.924)	738082	300.000	302.12
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	540625	150.000	145.13
	54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	1079961	150.000	147.29
	55	Dibromochloromethane	129	7.176	7.176	(0.936)	822094	150.000	152.90
	56	Tetrachloroethene	164	6.929	6.929	(0.904)	574499	150.000	149.53
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	715678	150.000	153.66
	58	1-Chlorohexane	55	7.697	7.697	(1.550)	522502	150.000	155.48
	59	Chlorobenzene	112	7.694	7.694	(1.003)	1944205	150.000	147.62
	60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	744470	150.000	151.89

61 Ethylbenzene	106	7.799	7.799 (1.017)	946928	150.000	152.63
62 m,p-Xylenes	106	7.904	7.904 (1.031)	2421267	300.000	302.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	63 o-Xylene	106	8.241	8.241	(1.075)	1210374	150.000	153.33
	64 Styrene	104	8.260	8.260	(1.077)	2169528	150.000	163.97
	66 Bromoform	173	8.410	8.410	(1.097)	588916	150.000	158.11
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	2877359	150.000	159.55
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	873933	150.000	141.84
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	936681	150.000	150.82
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386546	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	702545	150.000	163.33
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	3370402	150.000	157.41
	74 Bromobenzene	156	8.803	8.803	(0.911)	952608	150.000	150.20
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2529726	150.000	159.93
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	2083510	150.000	148.28
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	2540753	150.000	158.62
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	2055293	150.000	158.74
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2613455	150.000	157.03
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	2819238	150.000	163.65
	82 p-Isopropyltoluene	119	9.650	9.650	(0.999)	2542764	150.000	164.71
	83 1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	1650440	150.000	156.79
	84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	1766146	150.000	153.76
	86 Benzyl Chloride	91	9.808	9.808	(1.279)	1650494	150.000	151.23
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	2293126	150.000	150.43
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1672283	150.000	154.25
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	149691	150.000	151.78
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1094701	150.000	160.01
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	466452	150.000	150.10
	92 Naphthalene	128	11.540	11.540	(1.194)	2498440	150.000	160.50
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	991236	150.000	151.28
M	94 1,2-Dichloroethylene (total)	96				1273785	300.000	
M	95 Xylenes (total)	106				3631641	450.000	
	141 Cyclohexane	56	4.117	4.117	(0.986)	682728	150.000	148.87
	138 Freon TF	101	1.910	1.910	(0.457)	517229	150.000	157.53
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	1358300	150.000	159.57(A)
	146 Methyl Acetate	43	2.224	2.224	(0.533)	301298	150.000	149.70
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	962267	3000.00	3107.07
	149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	514966	3000.00	3183.89

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 16-DEC-2022 14:46
InstruID : voa6.i
LabSampID : VSTD150

Methyl Acrylate (96-33-3)

BEFORE

MASS
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HEIGHT
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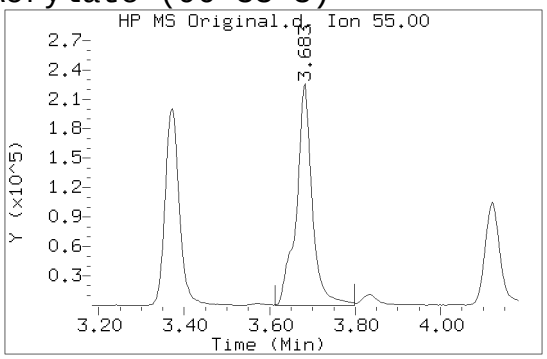
27-Dec-2022
16:04
linh
pham



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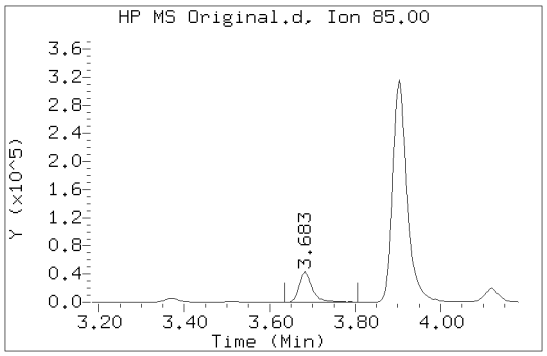

Reason Code:

AFTER

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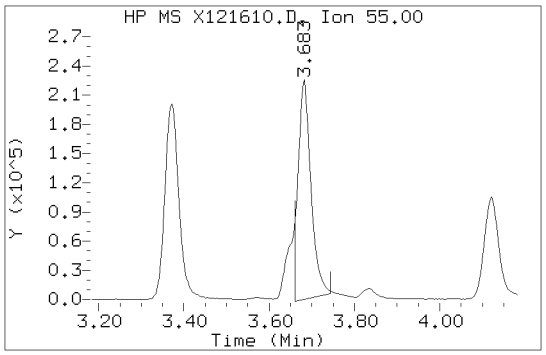

AFTER

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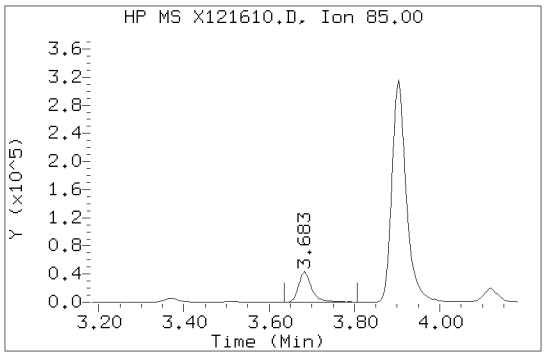

Acetaldehyde (75-07-0)

BEFORE

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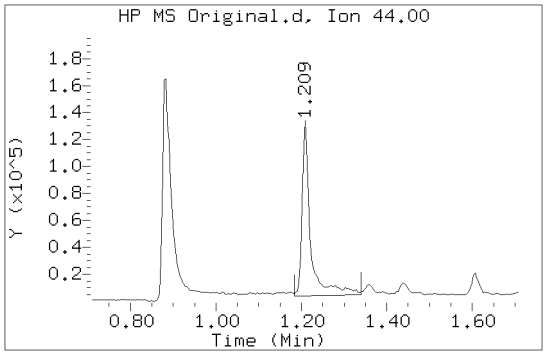

BEFORE

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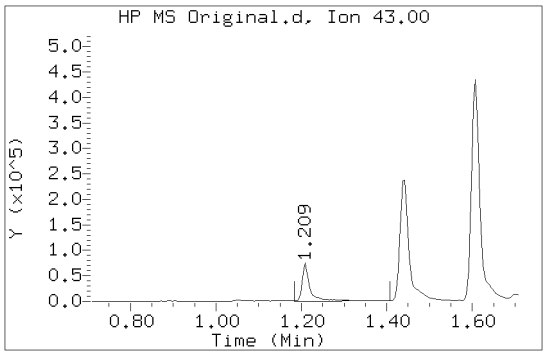

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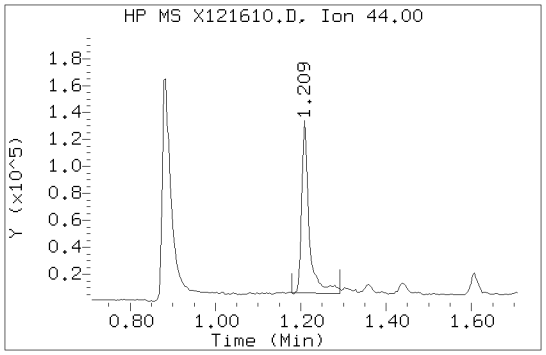

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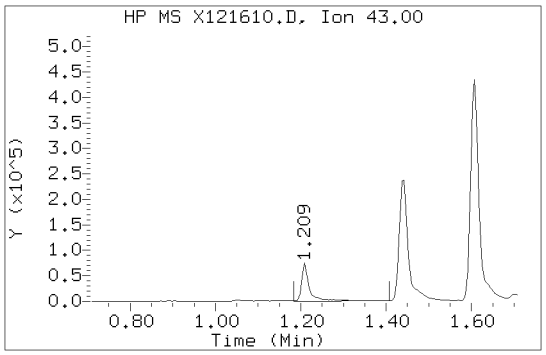

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Inj Date : 16-DEC-2022 14:46
InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
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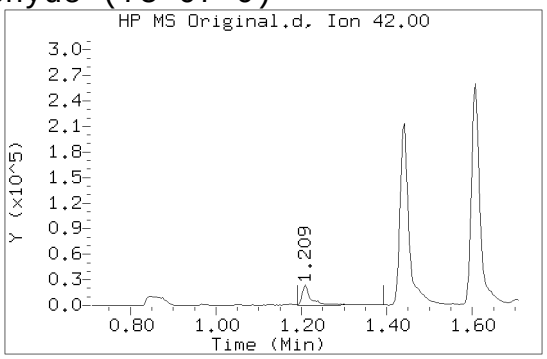
HEIGHT
23932
27-Dec-2022
16:04
linh
pham



AFTER

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27-Dec-2022
16:06
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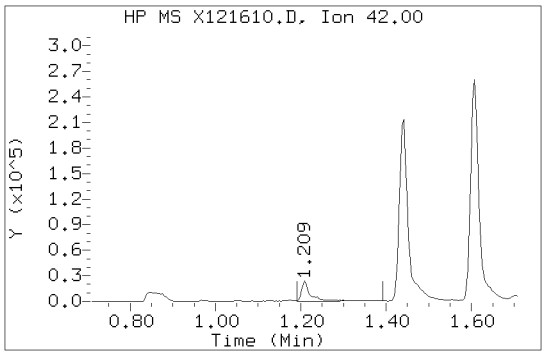

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 1
Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D
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Inj Date : 16-DEC-2022 15:07
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:46 Cal File: X121610.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	450847	50.0000	
135	1,4-Dioxane	88	5.598	5.598	(1.340)	179280	4000.00	4350.17(A)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	646265	200.000	208.86(A)
25	Methacrylonitrile	41	3.814	3.814	(0.913)	619479	200.000	194.04
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	2146631	4000.00	4233.12(A)
13	Acetonitrile	39	2.195	2.195	(0.525)	854153	2000.00	2081.63(A)
14	Allyl Chloride	41	2.195	2.195	(0.525)	1558053	200.000	199.36
4	Propionitrile	54	3.649	3.649	(0.873)	933721	2000.00	2029.71(A)
136	n-Hexane	57	2.768	2.768	(0.663)	726173	200.000	223.70(A)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	324976	200.000	217.73(A)
194	Acetaldehyde	44	1.209	1.209	(0.289)	205547	800.000	780.23(M)
23	Chloroprene	53	1.767	1.767	(0.423)	315248	200.000	205.64(A)
145	alpha-Methylstyrene	118	9.261	9.261	(0.958)	1880547	200.000	211.54(A)
200	Dimethyl Disulfide	94	6.198	6.198	(0.808)	1929723	200.000	206.22(A)
139	Diethyl ether	59	1.752	1.752	(0.419)	595638	200.000	197.72
130	Ethyl Acetate	43	3.649	3.649	(0.873)	706790	200.000	200.90(A)
40	Methyl Methacrylate	41	5.602	5.602	(1.341)	643877	200.000	209.45(A)
49	Ethyl Methacrylate	69	6.715	6.715	(1.353)	735246	200.000	222.23(A)
132	n-Butanol	56	5.253	5.253	(1.258)	297334	4000.00	3955.86
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	219995	400.000	401.77(A)

150 Allyl alcohol	57	2.768	2.768 (0.663)	726173	4000.00	4146.79(A)
166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	3701988	200.000	191.61

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 2
Report Date: 27-Dec-2022 16:07

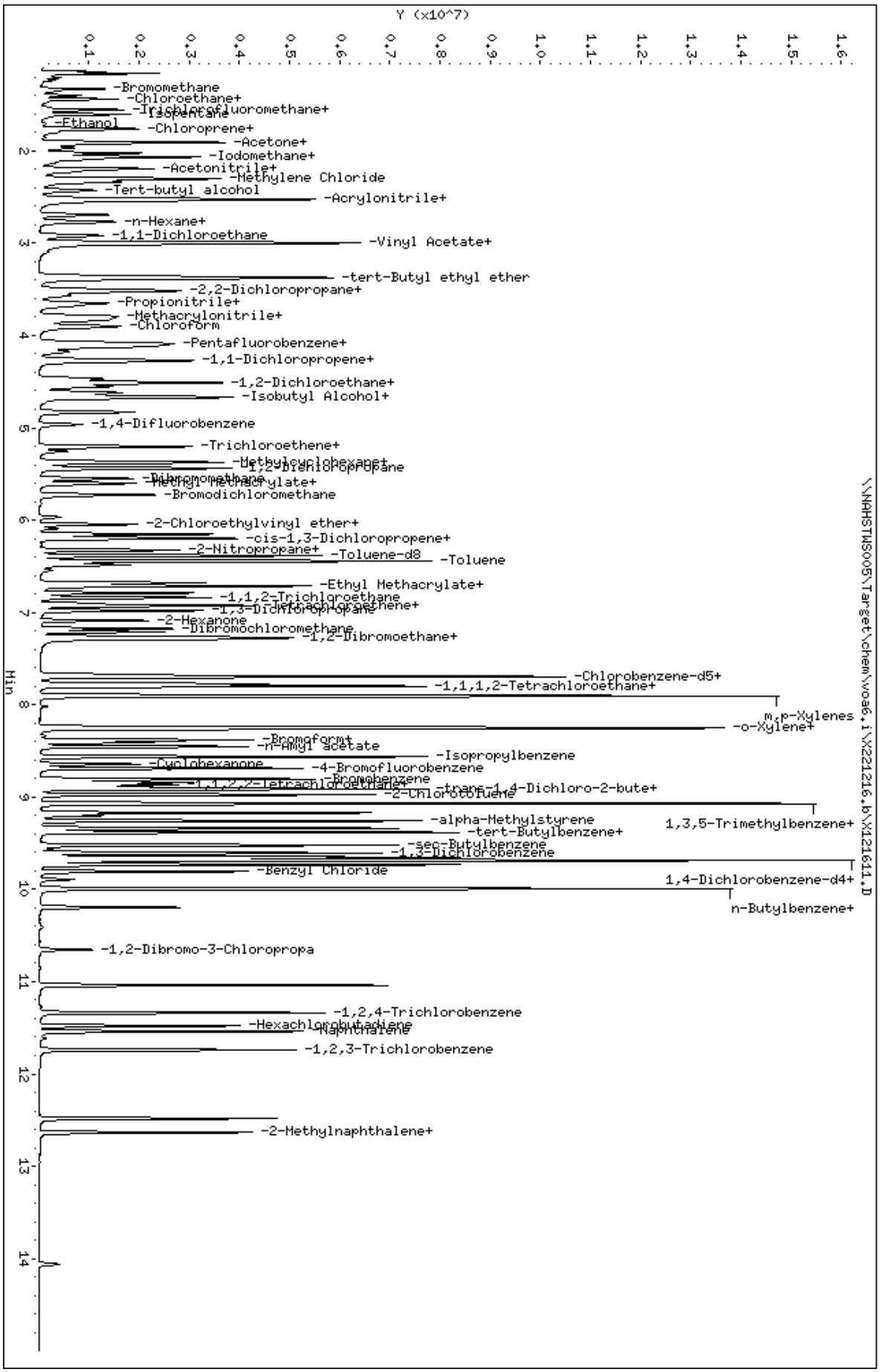
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	131 Methyl Acrylate	55	3.683	3.683	(0.882)	646827	200.000	211.32(AM)
	162 Butyl acrylate	55	8.252	8.252	(1.076)	2063916	200.000	228.52(A)
	2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	635808	200.000	200.44(A)
	3 Chloromethane	50	1.074	1.074	(0.257)	865151	200.000	204.92(A)
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	827926	200.000	210.21(A)
	6 Bromomethane	94	1.329	1.329	(0.318)	666705	200.000	217.67(A)
	7 Chloroethane	64	1.396	1.396	(0.334)	548415	200.000	200.06(A)
	8 Trichlorofluoromethane	101	1.553	1.553	(0.372)	1173529	200.000	212.92(A)
	9 Acrolein	56	1.437	1.437	(0.344)	125874	400.000	399.54
	10 Acetone	43	1.970	1.970	(0.472)	514105	400.000	406.50(A)
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	704695	200.000	205.94(A)
	15 Iodomethane	142	2.022	2.022	(0.484)	2193685	400.000	398.07
	16 Acrylonitrile	53	2.528	2.528	(0.605)	504850	400.000	435.02(A)
	17 Methylene Chloride	84	2.299	2.299	(0.550)	863945	200.000	184.07
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	2237559	200.000	199.78
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	3829593	400.000	427.76(A)
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	785444	200.000	205.10(A)
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	4210603	400.000	428.26(A)
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	1342786	200.000	199.79
	24 2-Butanone	43	3.570	3.570	(0.855)	555896	400.000	404.77(AH)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	1175128	200.000	205.93(A)
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	927934	200.000	199.10
	28 Chloroform	83	3.904	3.904	(0.935)	1523082	200.000	202.19(A)
	29 Bromochloromethane	128	3.791	3.791	(0.908)	510028	200.000	199.87
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	856027	200.000	198.23
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	1257327	200.000	210.37(A)
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1048877	200.000	210.29(A)
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	1153034	200.000	200.31(A)
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	1051824	200.000	197.48
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	919752	200.000	200.47(A)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	702551	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	3321582	200.000	197.98
	38 Trichloroethene	130	5.205	5.205	(1.048)	973709	200.000	204.62(A)
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	1264834	200.000	200.88(A)
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	729151	400.000	407.06(A)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	895211	200.000	200.59(A)
	44 Dibromomethane	93	5.550	5.550	(1.118)	600170	200.000	197.85
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1447268	400.000	391.63
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1583645	200.000	214.16(A)
*	47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	691386	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.832)	3061758	200.000	179.21
	50 Toluene	91	6.445	6.445	(0.840)	3757557	200.000	196.62
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	1365007	200.000	222.44(A)
	52 2-Hexanone	43	7.086	7.086	(0.924)	1026898	400.000	408.42(A)
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	736981	200.000	192.23
	54 1,3-Dichloropropane	76	6.982	6.982	(0.910)	1482067	200.000	196.39
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	1128140	200.000	203.88(A)
	56 Tetrachloroethene	164	6.929	6.929	(0.903)	798932	200.000	202.05(A)
	57 1,2-Dibromoethane	107	7.259	7.259	(0.946)	970608	200.000	202.48(A)
	58 1-Chlorohexane	55	7.698	7.698	(1.550)	746326	200.000	219.81(A)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	2696715	200.000	198.95
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	1028448	200.000	203.88(A)

61 Ethylbenzene	106	7.799	7.799 (1.017)	1312165	200.000	205.50(A)
62 m,p-Xylenes	106	7.904	7.904 (1.030)	3401207	400.000	413.22(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
63	o-Xylene	106	8.241	8.241	(1.074)	1701245	200.000	209.41(A)
64	Styrene	104	8.260	8.260	(1.077)	3030858	200.000	222.58(A)
66	Bromoform	173	8.410	8.410	(1.096)	809693	200.000	211.22(A)
67	Isopropylbenzene	105	8.563	8.563	(1.116)	4031708	200.000	217.22(A)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	1186926	200.000	185.61
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.132)	1277239	200.000	199.81
* 70	1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	401196	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	864931	200.000	193.75(M)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	4694239	200.000	211.23(A)
74	Bromobenzene	156	8.807	8.807	(0.911)	1313631	200.000	199.57
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	3532485	200.000	215.17(A)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	2866849	200.000	196.59
77	4-Chlorotoluene	91	9.070	9.070	(0.938)	3546402	200.000	213.32(A)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2865820	200.000	213.26(A)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	3599947	200.000	208.40(A)
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	3952917	200.000	221.08(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	3537904	200.000	220.81(A)
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	2282597	200.000	208.93(A)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	2442324	200.000	204.86(A)
86	Benzyl Chloride	91	9.808	9.808	(1.279)	2286488	200.000	202.63(A)
87	n-Butylbenzene	91	9.995	9.995	(1.034)	3216534	200.000	202.68(A)
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	2296902	200.000	204.14(A)
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.102)	205063	200.000	200.30(A)
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1524896	200.000	214.75(A)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	654615	200.000	200.27(A)
92	Naphthalene	128	11.540	11.540	(1.194)	3413593	200.000	211.29(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.214)	1363987	200.000	200.56(A)
M 94	1,2-Dichloroethylene (total)	96				1713378	400.000	
M 95	Xylenes (total)	106				5102452	600.000	
141	Cyclohexane	56	4.121	4.121	(0.987)	943314	200.000	203.60(A)
138	Freon TF	101	1.910	1.910	(0.457)	714577	200.000	215.91(A)
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1829310	200.000	212.71(A)
146	Methyl Acetate	43	2.224	2.224	(0.533)	408781	200.000	201.49(A)
148	Tert-Butyl alcohol	59	2.431	2.431	(0.582)	1308623	4000.00	4191.87(A)
149	Isopropyl Alcohol	45	2.093	2.093	(0.501)	697543	4000.00	4278.45(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D
Inj Date : 16-DEC-2022 15:07
InstruID : voa6.i
LabSampID : VSTD200

1,2,3-Trichloropropane (96-18-4)

BEFORE

MASS
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HEIGHT
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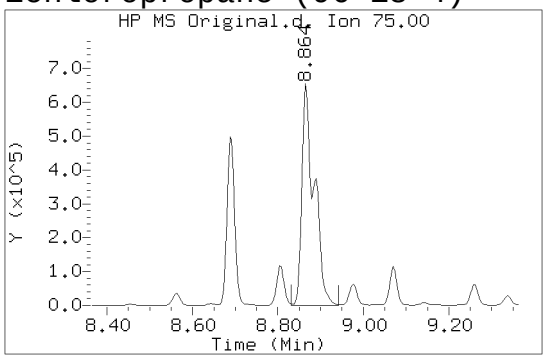
27-Dec-2022
16:04
linh
pham



BEFORE

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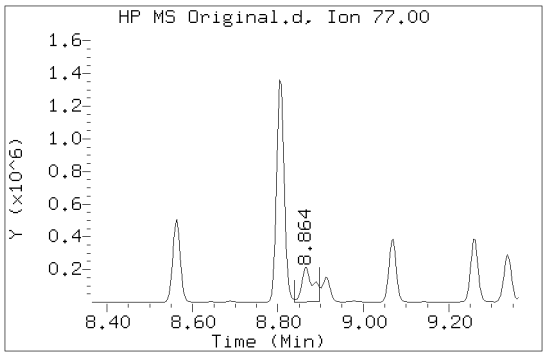

Reason Code:

AFTER

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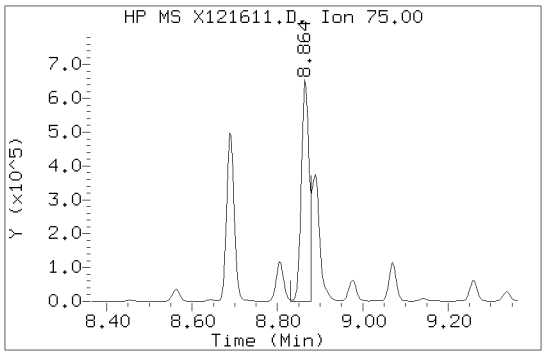

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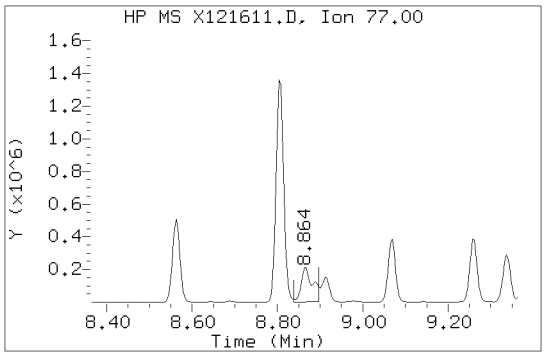

Methyl Acrylate (96-33-3)

BEFORE

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16:04
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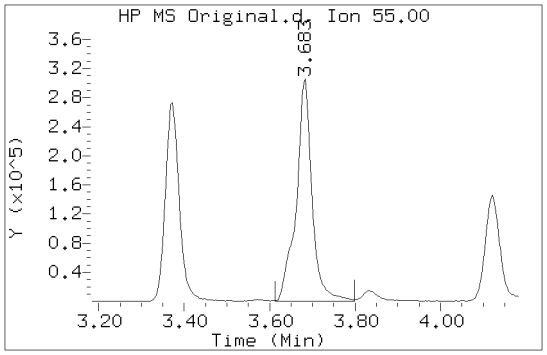

BEFORE

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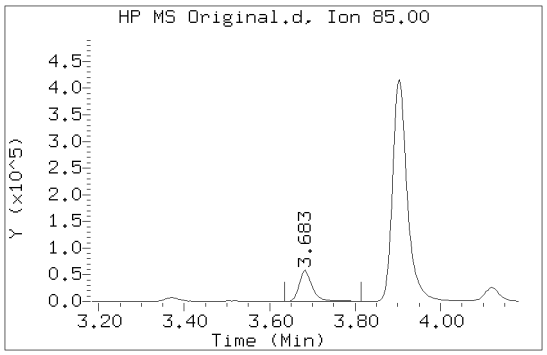

Reason Code:

AFTER

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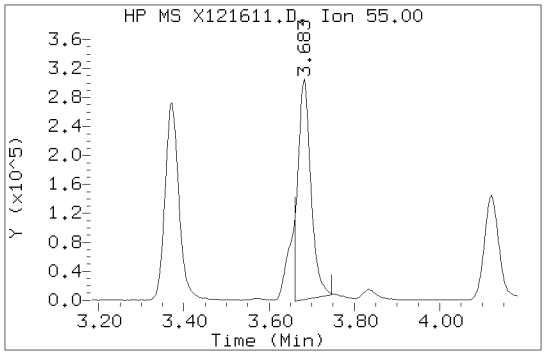

AFTER

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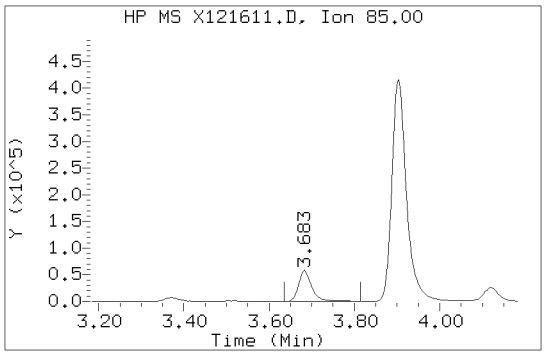

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Inj Date : 16-DEC-2022 15:07
InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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172187
27-Dec-2022
16:04
linh
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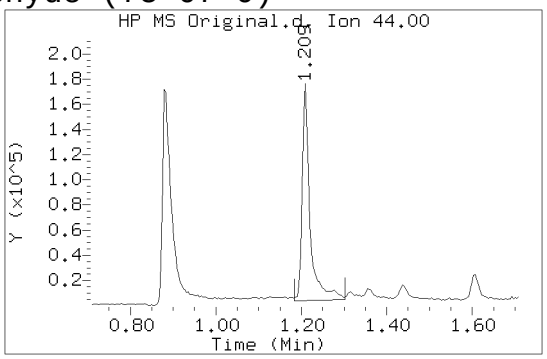

AFTER

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27-Dec-2022
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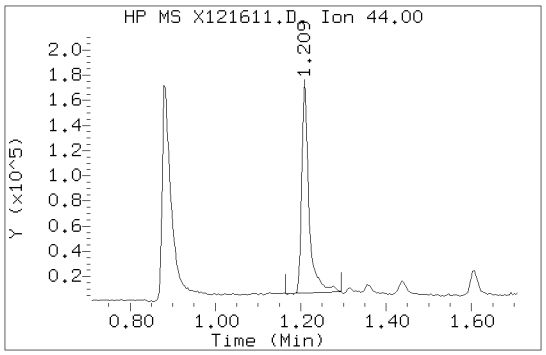

BEFORE

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27-Dec-2022
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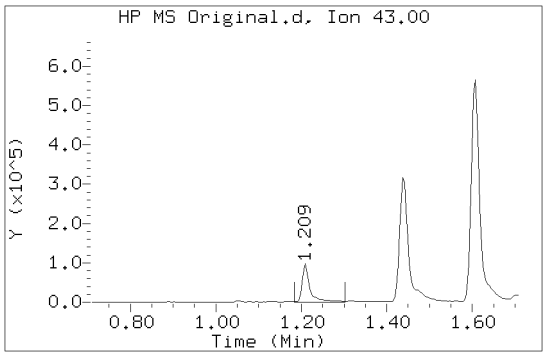

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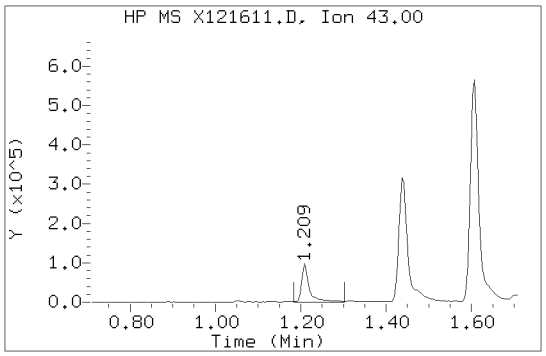

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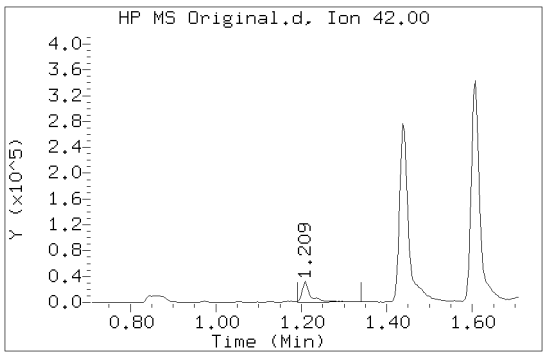

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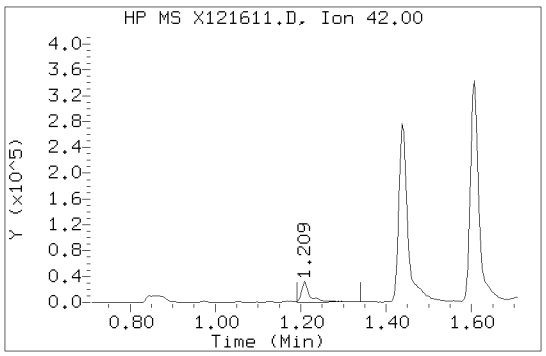


Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 1
Report Date: 13-Feb-2023 13:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 16-DEC-2022 15:49
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
Meth Date : 27-Dec-2022 16:38 Linh.Pham Quant Type: ISTD
Cal Date : 16-DEC-2022 15:07 Cal File: X121611.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 08260V6.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	4.178	4.178	(1.000)	457291	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	42711	1021.77	1021.76
140 1,3-Butadiene	54	1.164	1.160	(0.279)	155959	49.6927	49.69
25 Methacrylonitrile	41	3.818	3.818	(0.914)	151341	46.7389	46.73
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	505171	982.151	982.15
13 Acetonitrile	39	2.194	2.195	(0.525)	197937	475.590	475.59
14 Allyl Chloride	41	2.194	2.195	(0.525)	375064	47.3168	47.31
4 Propionitrile	54	3.649	3.645	(0.873)	227186	486.896	486.89
136 n-Hexane	57	2.768	2.768	(0.663)	183599	55.7620	55.76
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	71513	49.7372	49.73
194 Acetaldehyde	44	1.209	1.209	(0.289)	52697	179.814	179.81(M)
23 Chloroprene	53	1.767	1.767	(0.423)	74243	47.7493	47.74(M)
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	428317	51.3094	51.30
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	437905	48.5791	48.57
139 Diethyl ether	59	1.752	1.752	(0.419)	142672	46.6930	46.69
130 Ethyl Acetate	43	3.653	3.653	(0.874)	171211	47.9808	47.98
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	148777	47.7146	47.71
49 Ethyl Methacrylate	69	6.712	6.708	(1.352)	142471	44.0730	44.07
132 n-Butanol	56	5.257	5.253	(1.258)	56842	974.397	974.39
142 Tetrahydrofuran	42	3.840	3.844	(0.919)	61534	108.502	108.50

166	1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	846843	46.6777	46.67
131	Methyl Acrylate	55	3.683	3.683 (0.882)	162555	52.3594	52.35

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 2
Report Date: 13-Feb-2023 13:08

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	162	Butyl acrylate	55	8.249	8.249	(1.076)	417137	47.9449	47.94
	2	Dichlorodifluoromethane	85	0.972	0.969	(0.233)	166984	52.1924	52.19
	3	Chloromethane	50	1.077	1.077	(0.258)	207623	50.1741	50.17
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	202038	50.5766	50.57
	6	Bromomethane	94	1.336	1.336	(0.320)	153541	50.7886	50.78
	7	Chloroethane	64	1.400	1.400	(0.335)	134354	48.3213	48.32
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	285144	51.0083	51.00
	9	Acrolein	56	1.441	1.441	(0.345)	29687	95.0682	95.06
	10	Acetone	43	1.970	1.970	(0.472)	130747	101.899	101.89
	11	1,1-Dichloroethene	96	1.913	1.910	(0.458)	171246	49.3414	49.34
	15	Iodomethane	142	2.026	2.026	(0.485)	440111	96.4856	96.48
	16	Acrylonitrile	53	2.532	2.528	(0.606)	119393	101.430	101.42
	17	Methylene Chloride	84	2.299	2.299	(0.550)	226449	47.5675	47.56
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	546711	48.1256	48.12
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	894433	98.5011	98.50
	20	trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	194181	49.9917	49.99
	21	Vinyl Acetate	43	2.997	2.993	(0.717)	1044658	104.756	104.75
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	328530	48.1931	48.19
	24	2-Butanone	43	3.574	3.574	(0.856)	132931	97.7407	97.74(H)
	26	2,2-Dichloropropane	77	3.507	3.503	(0.839)	295126	50.9895	50.98
	27	cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	228100	48.2538	48.25
	28	Chloroform	83	3.904	3.900	(0.935)	370227	48.4556	48.45
	29	Bromochloromethane	128	3.795	3.791	(0.908)	122310	47.2570	47.25
$	30	Dibromofluoromethane	113	4.095	4.099	(0.980)	223563	50.9182	50.91
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	304118	50.1673	50.16
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	254008	52.1195	52.11
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	278558	49.5262	49.52
	34	Carbon Tetrachloride	117	4.264	4.260	(0.859)	255322	49.0600	49.06
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	233432	50.3661	50.36
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	686467	50.0000	
	37	Benzene	78	4.511	4.507	(0.909)	824422	50.2921	50.29
	38	Trichloroethene	130	5.205	5.205	(1.048)	238429	51.2807	51.28
	39	Bromodichloromethane	83	5.726	5.726	(1.153)	302844	49.2265	49.22
	41	2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	182363	104.194	104.19
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	216322	49.6089	49.60
	44	Dibromomethane	93	5.550	5.550	(1.118)	145797	49.1915	49.19
	45	4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	334751	94.0316	94.03
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	376514	52.1120	52.11
*	47	Chlorobenzene-d5	117	7.667	7.668	(1.000)	666040	50.0000	
$	48	Toluene-d8	98	6.385	6.386	(0.833)	814721	49.5021	49.50
	50	Toluene	91	6.445	6.446	(0.841)	905906	49.2085	49.20
	51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	314805	52.5028	52.50
	52	2-Hexanone	43	7.086	7.083	(0.924)	234303	96.7356	96.73
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	176962	47.9147	47.91
	54	1,3-Dichloropropane	76	6.981	6.982	(0.911)	347689	47.8282	47.82
	55	Dibromochloromethane	129	7.176	7.173	(0.936)	263907	49.5095	49.50
	56	Tetrachloroethene	164	6.929	6.925	(0.904)	194246	50.9965	50.99
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	232024	50.2468	50.24
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	172462	51.9860	51.98
	59	Chlorobenzene	112	7.694	7.694	(1.003)	631235	48.3416	48.34
	60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	236254	48.6176	48.61
	61	Ethylbenzene	106	7.799	7.799	(1.017)	315635	51.3153	51.31

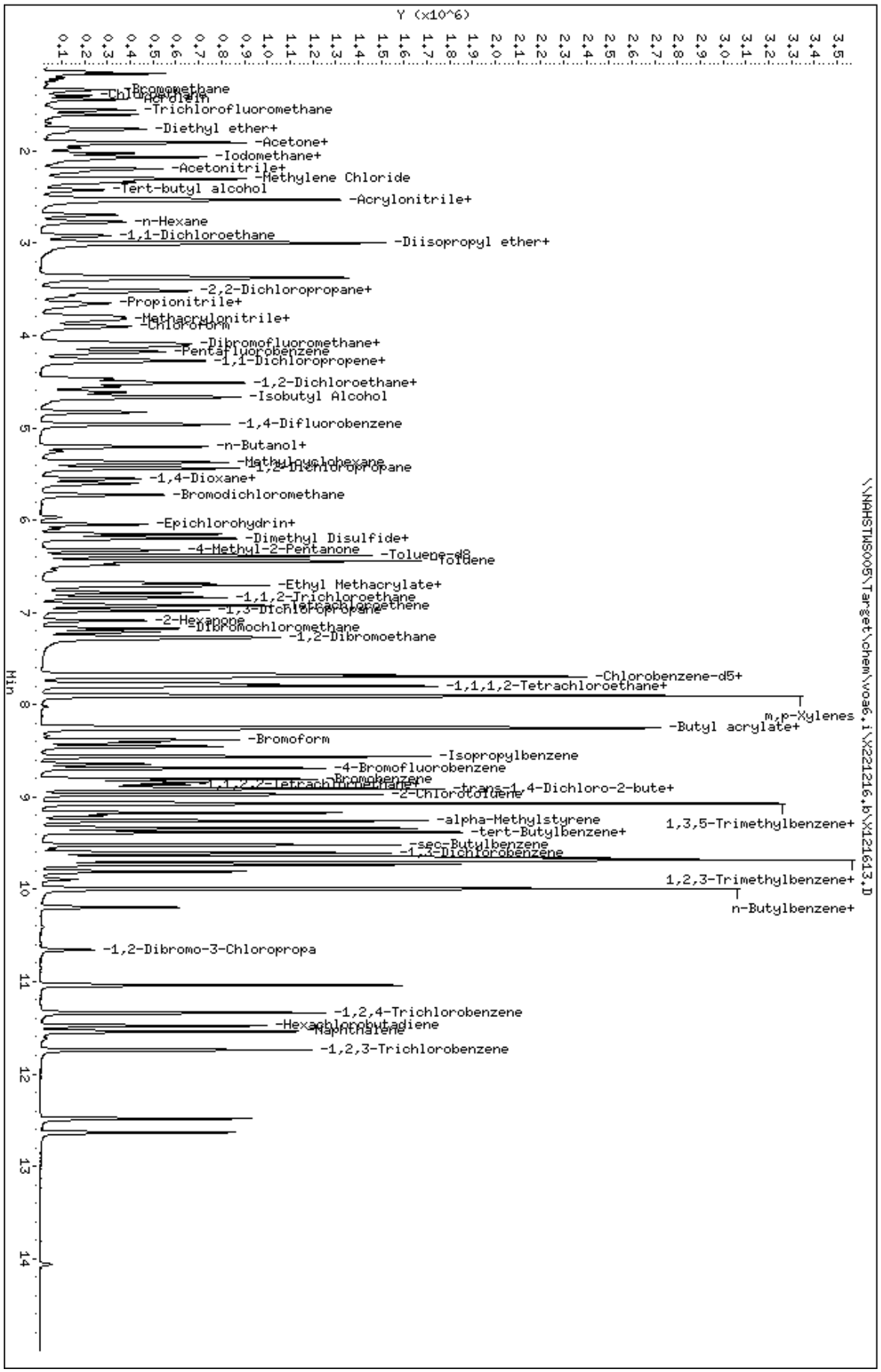
62 m,p-Xylenes	106	7.904	7.904 (1.031)	794307	100.175	100.17
63 o-Xylene	106	8.241	8.241 (1.075)	389371	49.7531	49.75

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 3
Report Date: 13-Feb-2023 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	64 Styrene	104	8.260	8.256	(1.077)	683415	52.0997	52.09
	66 Bromoform	173	8.410	8.410	(1.097)	182169	49.3304	49.33
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	931467	52.0964	52.09
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	280729	46.7506	46.75
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	307493	49.9836	49.98
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	376748	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	201551	48.0786	48.07(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1099273	52.6761	52.67
	74 Bromobenzene	156	8.803	8.803	(0.911)	306751	49.6271	49.62
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	806374	52.3068	52.30
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	683941	49.9441	49.94
	77 4-Chlorotoluene	91	9.069	9.070	(0.939)	800114	51.2527	51.25
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	666730	52.8346	52.83
	79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	832541	51.3249	51.32
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	909529	54.1700	54.16
	82 p-Isopropyltoluene	119	9.651	9.647	(0.999)	823827	54.7550	54.75
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	525438	51.2160	51.21
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	556610	49.7188	49.71
	87 n-Butylbenzene	91	9.995	9.992	(1.035)	735043	50.6672	50.66
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	523296	49.5268	49.52
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48516	50.5353	50.53
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	364475	54.6601	54.66
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	170927	57.7383	57.73
	92 Naphthalene	128	11.544	11.540	(1.195)	799121	52.6729	52.67
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	337140	52.7917	52.79
M	94 1,2-Dichloroethylene (total)	96				422281	98.2454	98.24
M	95 Xylenes (total)	106				1183678	149.928	149.92
	141 Cyclohexane	56	4.121	4.121	(0.987)	238664	51.7326	51.73
	138 Freon TF	101	1.913	1.913	(0.458)	177599	52.9072	52.90
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	427649	50.8929	50.89
	146 Methyl Acetate	43	2.228	2.228	(0.533)	99131	48.1755	48.17
	148 Tert-Butyl alcohol	59	2.423	2.427	(0.580)	311463	983.641	983.64
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	170003	1028.04	1028.03

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D
Inj Date : 16-DEC-2022 15:49
InstruID : voa6.i
LabSampID : ICV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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27-Dec-2022
16:04
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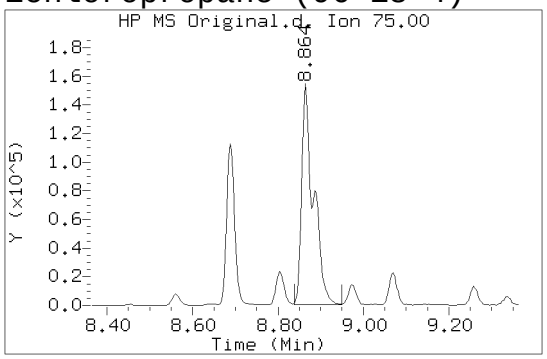

AFTER

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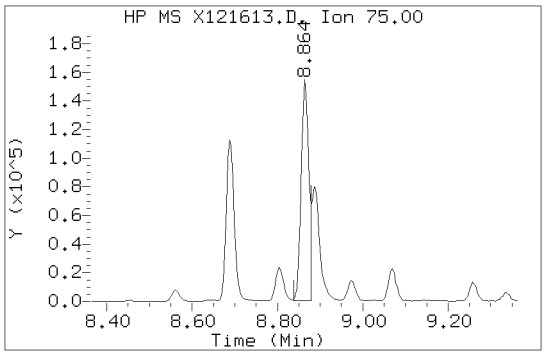

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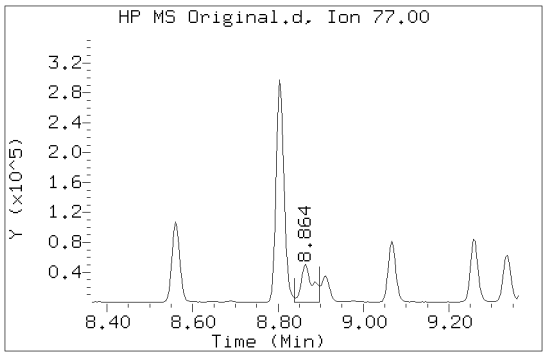

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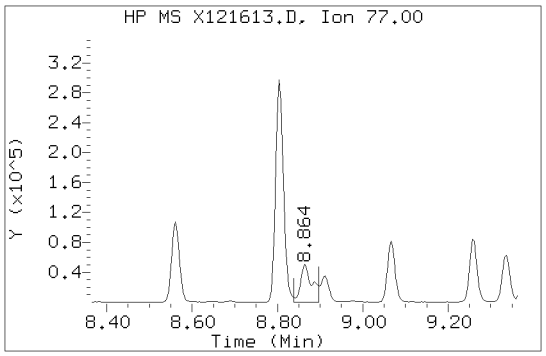

Chloroprene (126-99-8)

Reason Code:

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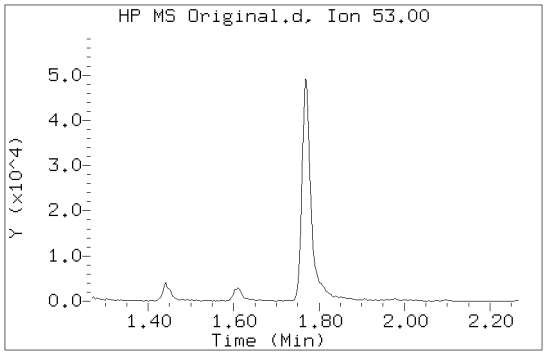

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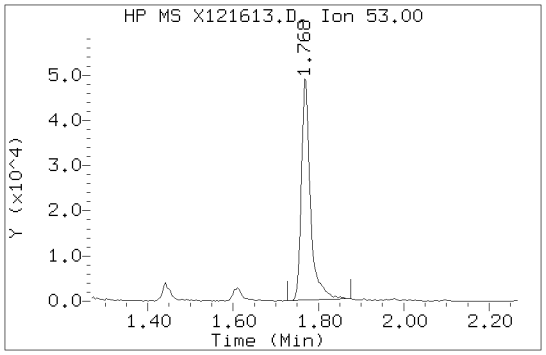

BEFORE

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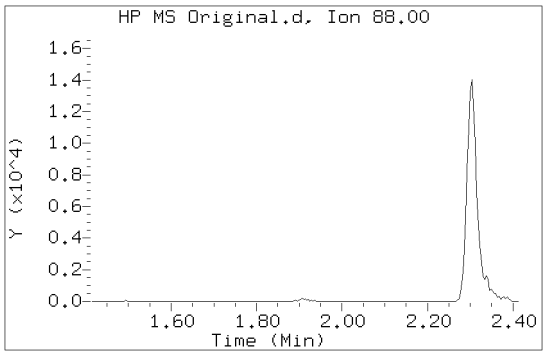

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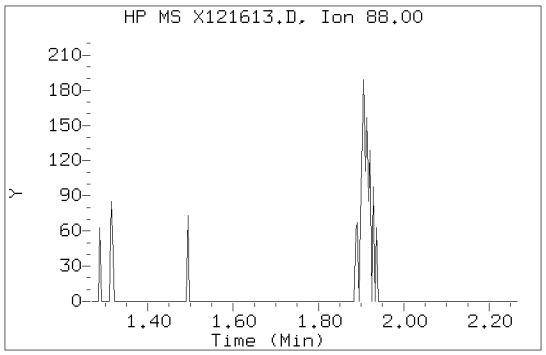

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Inj Date : 16-DEC-2022 15:49
InstruID : voa6.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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27-Dec-2022
16:04
linh
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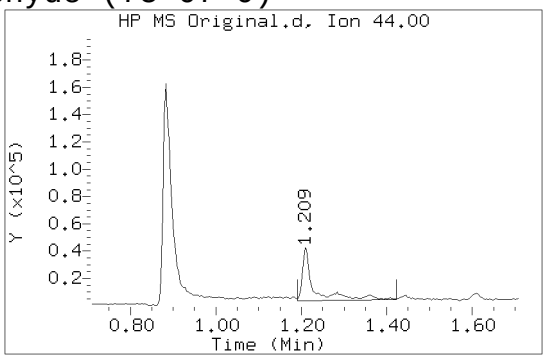

AFTER

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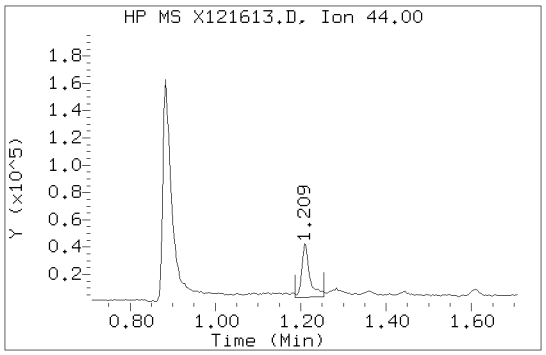

BEFORE

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27-Dec-2022
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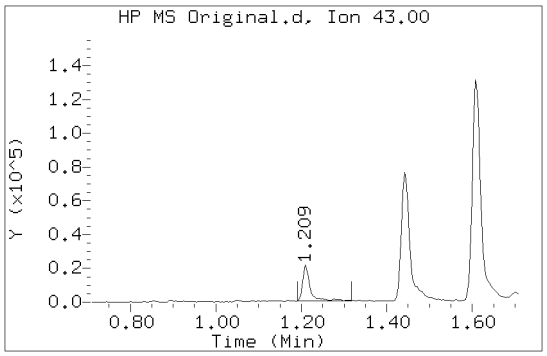
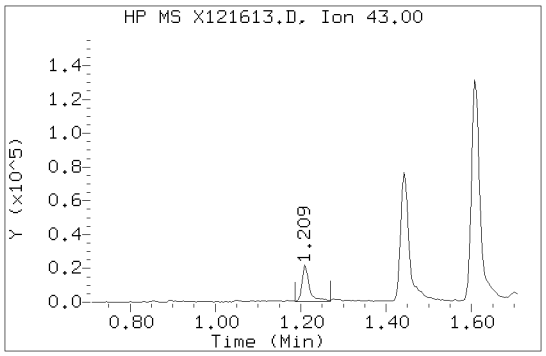
pham



AFTER

MASS
43
AREA
26760
HEIGHT
21664
13-Feb-2023
13:08
linh
pham



BEFORE

MASS
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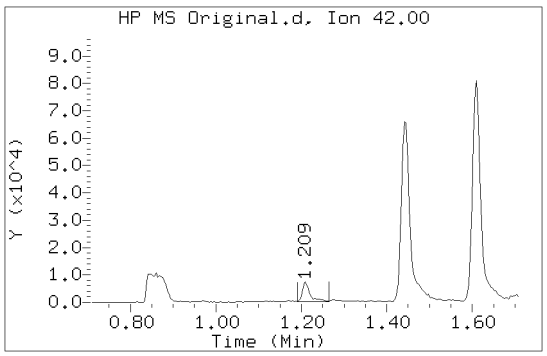
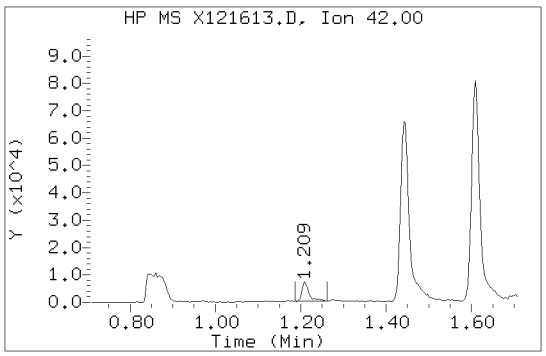
AREA
8969
HEIGHT
7131
27-Dec-2022
16:04
linh
pham



AFTER

MASS
42
AREA
8550
HEIGHT
7027
13-Feb-2023
13:08
linh
pham



right solutions.
right partner.

Raw Data VOA6 427080

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\X230201.b\X020101.D Page 1
Report Date: 01-Feb-2023 11:18

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020101.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-FEB-2023 10:36
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham 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: NAHSTW7051

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	
8.687	8.889	(0.000)	95	129680			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	26048			15.00- 40.00	20.09
8.687	8.889	(0.000)	75	65704			30.00- 60.00	50.67
8.687	8.889	(0.000)	96	9946			5.00- 9.00	7.67
8.687	8.889	(0.000)	173	750			0.00- 2.00	0.70
8.687	8.889	(0.000)	174	107280			50.00- 0.00	82.73
8.687	8.889	(0.000)	175	8701			5.00- 9.00	8.11
8.687	8.889	(0.000)	176	107056			95.00- 101.00	99.79
8.687	8.889	(0.000)	177	7497			5.00- 9.00	7.00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.09
75	30.00 - 60.00% of mass 95	50.67
96	5.00 - 9.00% of mass 95	7.67
173	Less than 2.00% of mass 174	0.58 (0.70)
174	Greater than 50.00% of mass 95	82.73
175	5.00 - 9.00% of mass 174	6.71 (8.11)
176	95.00 - 101.00% of mass 174	82.55 (99.79)
177	5.00 - 9.00% of mass 176	5.78 (7.00)

Data File: X020101.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1403	65.00	155	95.00	129680	140.90	1172
37.00	6902	66.10	261	96.00	9946	142.90	1114
38.10	5835	67.00	519	96.90	344	144.90	111
39.00	3254	68.00	13397	98.00	1270	145.80	131
40.00	1461	69.00	14815	102.60	135	146.80	98
41.00	1411	70.10	1910	104.00	822	147.90	332
42.00	1942	71.00	307	104.90	313	148.60	80
43.00	1587	72.00	928	105.80	786	149.70	111
43.90	1665	73.00	5099	106.80	373	152.70	58
44.90	1452	74.00	21056	108.80	305	153.80	102
46.00	142	75.00	65704	110.70	99	154.60	363
47.00	1345	76.00	5679	111.70	73	155.90	72
47.90	796	77.00	628	112.80	174	156.90	149
49.00	5399	77.80	719	114.80	103	158.80	167
50.00	26048	78.90	3534	115.70	326	160.80	146
51.00	8272	80.00	1197	116.90	910	169.80	94
52.10	295	80.90	3710	117.80	480	171.00	106
52.90	253	81.90	1055	118.70	603	171.90	59
53.80	199	82.90	392	123.80	171	172.80	750
55.00	3357	85.00	168	126.90	133	173.90	107280
56.00	2573	85.60	54	127.80	574	174.90	8701
57.00	4377	86.10	173	128.80	178	175.90	107056
58.10	510	86.90	4790	129.90	327	176.90	7497
59.20	82	88.00	5115	130.80	130	177.90	168
60.00	1078	89.30	86	135.00	275	186.20	187
61.00	5501	91.00	573	135.70	57		
62.00	6171	92.00	3459	136.50	123		
63.00	4820	92.90	4685	136.90	173		
64.10	335	94.00	14791	139.90	84		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020101.D

Date : 01-FEB-2023 10:36

Client ID: BFB

Instrument: voa6.i

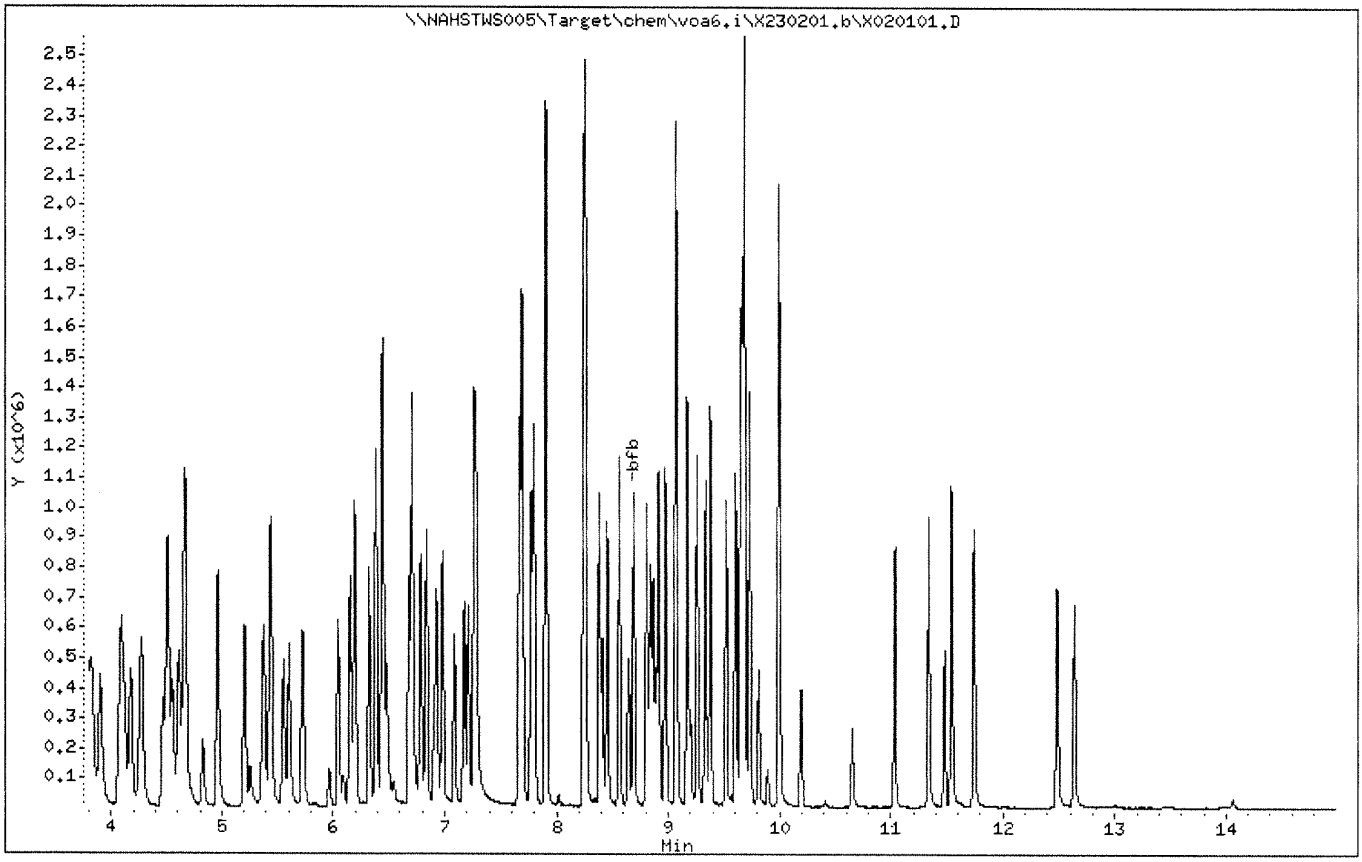
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020101.D

Date : 01-FEB-2023 10:36

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

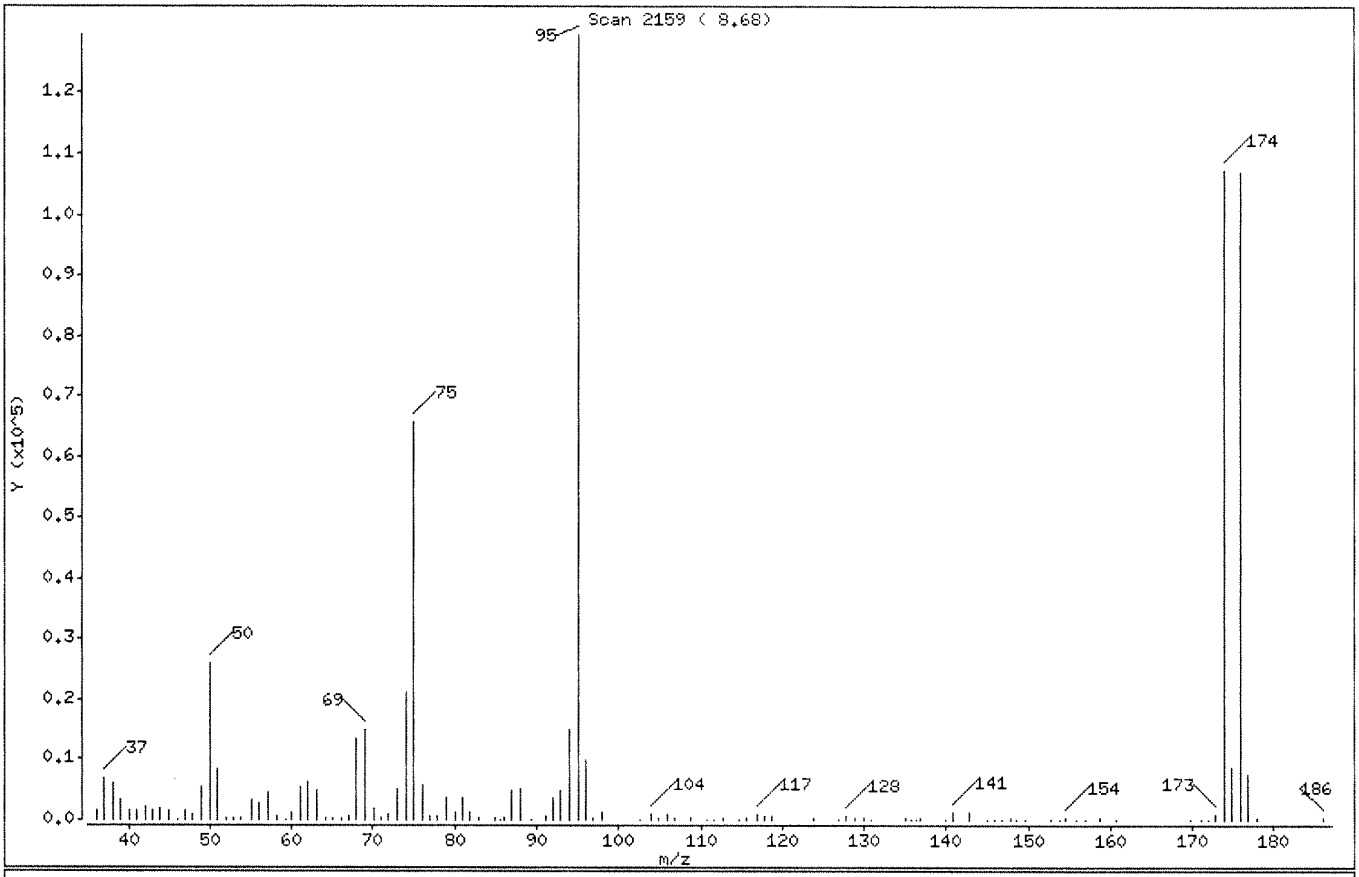
Volume Injected (uL): 2.0

Operator: PC

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	20.09
75	30.00 - 60.00% of mass 95	50.67
96	5.00 - 9.00% of mass 95	7.67
173	Less than 2.00% of mass 174	0.58 (0.70)
174	Greater than 50.00% of mass 95	82.73
175	5.00 - 9.00% of mass 174	6.71 (8.11)
176	95.00 - 101.00% of mass 174	82.55 (99.79)
177	5.00 - 9.00% of mass 176	5.78 (7.00)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020101.D

Date : 01-FEB-2023 10:36

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: X020101.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1403	65.00	155	95.00	129680	140.90	1172
37.00	6902	66.10	261	96.00	9946	142.90	1114
38.10	5835	67.00	519	96.90	344	144.90	111
39.00	3254	68.00	13397	98.00	1270	145.80	131
40.00	1461	69.00	14815	102.60	135	146.80	98
41.00	1411	70.10	1910	104.00	822	147.90	332
42.00	1942	71.00	307	104.90	313	148.60	80
43.00	1587	72.00	928	105.80	786	149.70	111
43.90	1665	73.00	5099	106.80	373	152.70	58
44.90	1452	74.00	21056	108.80	305	153.80	102
46.00	142	75.00	65704	110.70	99	154.60	363
47.00	1345	76.00	5679	111.70	73	155.90	72
47.90	796	77.00	628	112.80	174	156.90	149
49.00	5399	77.80	719	114.80	103	158.80	167
50.00	26048	78.90	3534	115.70	326	160.80	146
51.00	8272	80.00	1197	116.90	910	169.80	94
52.10	295	80.90	3710	117.80	480	171.00	106
52.90	253	81.90	1055	118.70	603	171.90	59
53.80	199	82.90	392	123.80	171	172.80	750
55.00	3357	85.00	168	126.90	133	173.90	107280
56.00	2573	85.60	54	127.80	574	174.90	8701
57.00	4377	86.10	173	128.80	178	175.90	107056
58.10	510	86.90	4790	129.90	327	176.90	7497
59.20	82	88.00	5115	130.80	130	177.90	168
60.00	1078	89.30	86	135.00	275	186.20	187
61.00	5501	91.00	573	135.70	57		
62.00	6171	92.00	3459	136.50	123		
63.00	4820	92.90	4685	136.90	173		
64.10	335	94.00	14791	139.90	84		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020103.D Page 1
Report Date: 09-Feb-2023 17:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020103.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 01-FEB-2023 11:18
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 09-Feb-2023 17:19 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

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	4.178	4.178	(1.000)	598154	50.0000	
135	1,4-Dioxane	88	5.598	5.598	(1.340)	63536	1000.00	1162.01
140	1,3-Butadiene	54	1.164	1.164	(0.279)	221695	50.0000	54.00
25	Methacrylonitrile	41	3.814	3.814	(0.913)	216121	50.0000	51.02
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	733137	1000.00	1089.69
13	Acetonitrile	39	2.195	2.195	(0.525)	284762	500.000	523.07
14	Allyl Chloride	41	2.195	2.195	(0.525)	542046	50.0000	52.27
4	Propionitrile	54	3.645	3.645	(0.873)	311575	500.000	510.50
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	106849	50.0000	60.37
130	Ethyl Acetate	43	3.649	3.649	(0.873)	260320	50.0000	55.77
40	Methyl Methacrylate	41	5.602	5.602	(1.341)	230104	50.0000	56.41
49	Ethyl Methacrylate	69	6.708	6.708	(1.351)	225705	50.0000	55.31
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	72859	100.000	97.91
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	578759	50.0000	56.89
156	Diisopropyl ether	45	2.997	2.997	(0.717)	764264	50.0000	49.25
182	Epichlorohydrin	57	6.093	6.093	(1.227)	88985	200.000	228.95
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1140398	50.0000	51.58
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	559847	50.0000	133.16
3	Chloromethane	50	1.077	1.077	(0.258)	282924	50.0000	52.17
5	Vinyl Chloride	62	1.141	1.141	(0.273)	268762	50.0000	51.43

6 Bromomethane	94	1.336	1.336 (0.320)	175870	50.0000	44.69
7 Chloroethane	64	1.400	1.400 (0.335)	165892	50.0000	45.61

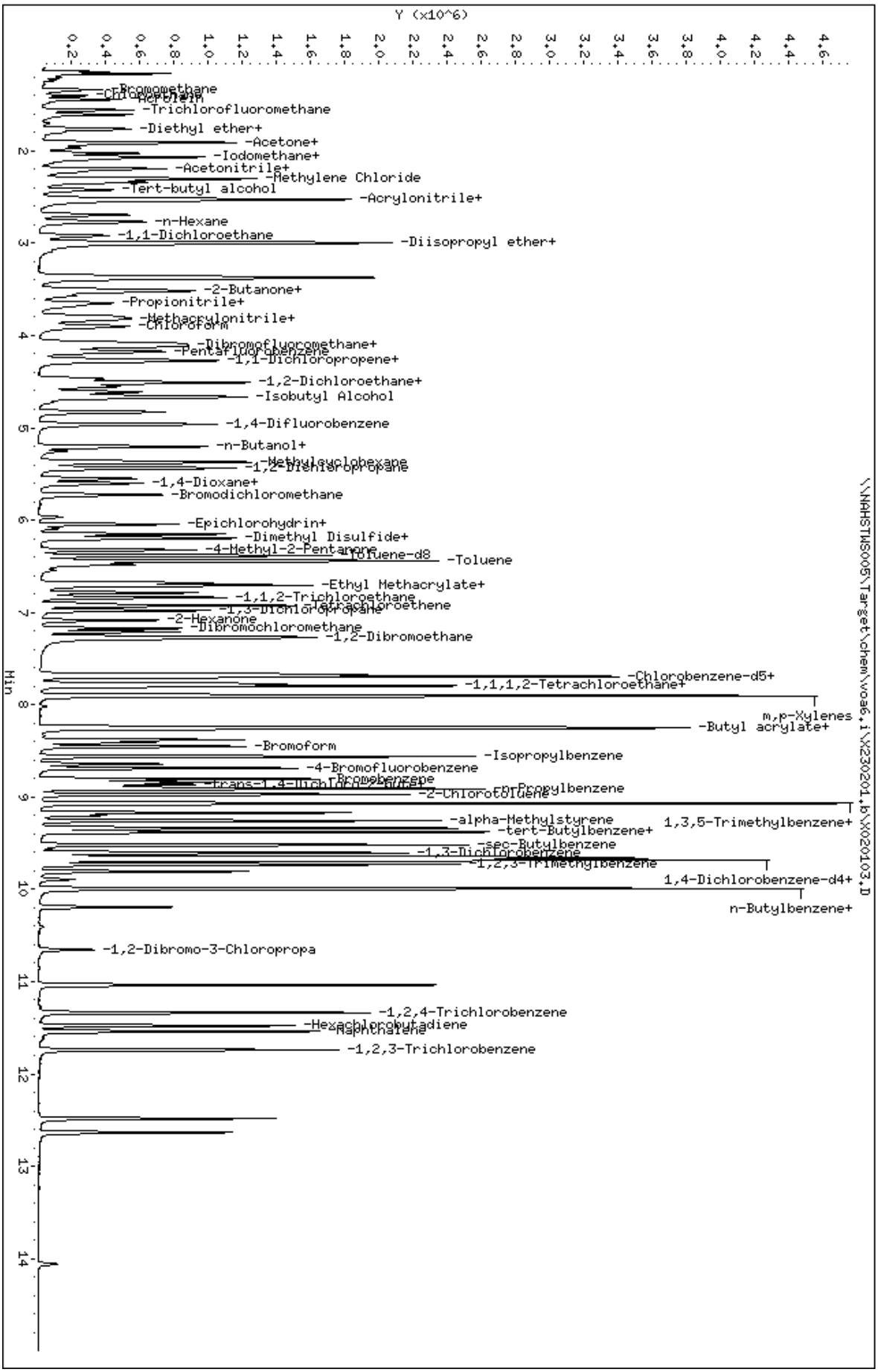
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	396204	50.0000	54.18
	9 Acrolein	56	1.445	1.445	(0.346)	38944	100.000	95.33
	10 Acetone	43	1.970	1.970	(0.472)	174405	100.000	103.91
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	218305	50.0000	48.08
	15 Iodomethane	142	2.026	2.026	(0.485)	623372	100.000	103.86
	16 Acrylonitrile	53	2.528	2.528	(0.605)	162912	100.000	105.80
	17 Methylene Chloride	84	2.299	2.299	(0.550)	290889	50.0000	46.71
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	738880	50.0000	49.72
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1208223	100.000	101.72
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	263242	50.0000	51.81
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	1454814	100.000	111.53
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	455152	50.0000	51.04
	24 2-Butanone	43	3.570	3.570	(0.855)	199315	100.000	111.59
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	439876	50.0000	58.10
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	303026	50.0000	49.00
	28 Chloroform	83	3.900	3.900	(0.934)	511465	50.0000	51.17
	29 Bromochloromethane	128	3.791	3.791	(0.908)	160762	50.0000	47.48
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	262100	50.0000	45.61
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	454210	50.0000	57.28
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	385149	50.0000	62.61
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	398417	50.0000	56.12
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	384065	50.0000	58.46
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	301345	50.0000	49.71
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	866437	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	1120575	50.0000	54.15
	38 Trichloroethene	130	5.201	5.201	(1.048)	327437	50.0000	55.79
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	416800	50.0000	53.67
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	308454	100.000	139.62
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	290913	50.0000	52.85
	44 Dibromomethane	93	5.550	5.550	(1.118)	192391	50.0000	51.42
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	500787	100.000	114.28
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	516930	50.0000	56.68
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	819811	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	981866	50.0000	48.46
	50 Toluene	91	6.445	6.445	(0.841)	1240150	50.0000	54.72
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	448433	50.0000	59.25
	52 2-Hexanone	43	7.083	7.083	(0.924)	354815	100.000	119.01
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	235682	50.0000	51.84
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	489958	50.0000	54.75
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	361574	50.0000	55.10
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	277133	50.0000	59.11
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	314179	50.0000	55.27
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	272368	50.0000	65.04
	59 Chlorobenzene	112	7.690	7.690	(1.003)	861060	50.0000	53.57
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	332551	50.0000	55.59
	61 Ethylbenzene	106	7.799	7.799	(1.017)	439333	50.0000	58.02
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1106699	100.000	113.39
	63 o-Xylene	106	8.241	8.241	(1.075)	536888	50.0000	55.73
	64 Styrene	104	8.256	8.256	(1.077)	924068	50.0000	57.23
	66 Bromoform	173	8.410	8.410	(1.097)	248403	50.0000	54.64
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1365407	50.0000	62.04
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	390853	50.0000	53.41

$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	390918	50.0000	51.62
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	459085	50.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	302970	50.0000	59.30(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1634178	50.0000	64.26
	74 Bromobenzene	156	8.803	8.803	(0.911)	414885	50.0000	55.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1193356	50.0000	63.52
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	995243	50.0000	59.64
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1164933	50.0000	61.23
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	993401	50.0000	64.60
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1212420	50.0000	61.33
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1398231	50.0000	68.34
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	1260555	50.0000	68.75
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	738097	50.0000	59.04
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	770508	50.0000	56.48
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	1133135	50.0000	63.62
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	729403	50.0000	56.65
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	67872	50.0000	58.00
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	549976	50.0000	67.68
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	258260	50.0000	71.36
	92 Naphthalene	128	11.540	11.540	(1.194)	1146034	50.0000	61.99
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	487448	50.0000	62.63
M	94 1,2-Dichloroethylene (total)	96				566268	100.000	(a)
	141 Cyclohexane	56	4.118	4.118	(0.986)	371902	50.0000	61.38
	138 Freon TF	101	1.913	1.913	(0.458)	242462	50.0000	55.22
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	656048	50.0000	61.85
	146 Methyl Acetate	43	2.228	2.228	(0.533)	144889	50.0000	53.83
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	496913	1000.00	1199.74
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	266728	1000.00	1233.10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020103.D
Inj Date : 01-FEB-2023 11:18
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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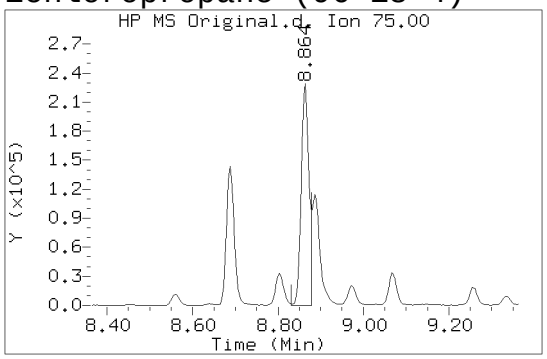
HEIGHT
228932
09-Feb-2023
17:19
Kori
Bagsby



AFTER

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09-Feb-2023
17:19
Kori
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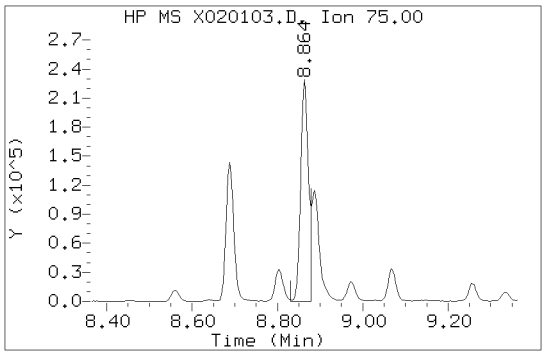

BEFORE

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09-Feb-2023
17:19
Kori
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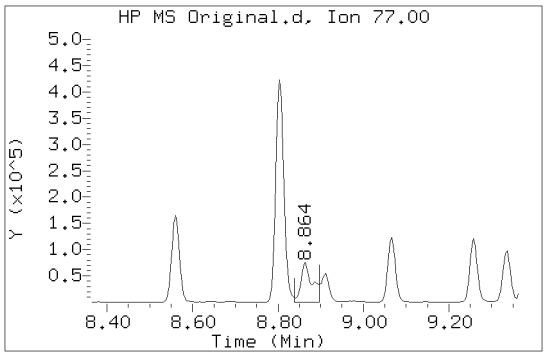

AFTER

MASS
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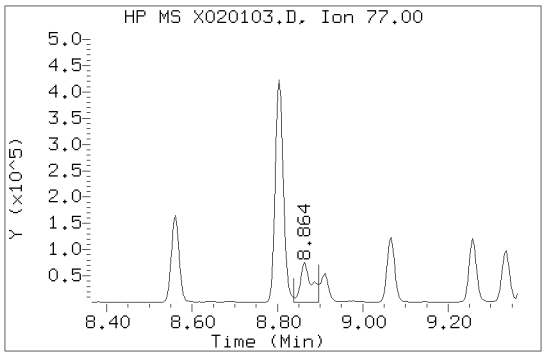
AREA
144875
HEIGHT
75271
09-Feb-2023
17:19
Kori
Bagsby



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020104.D Page 1
Report Date: 09-Feb-2023 17:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020104.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 01-FEB-2023 11:39
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 09-Feb-2023 17:19 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

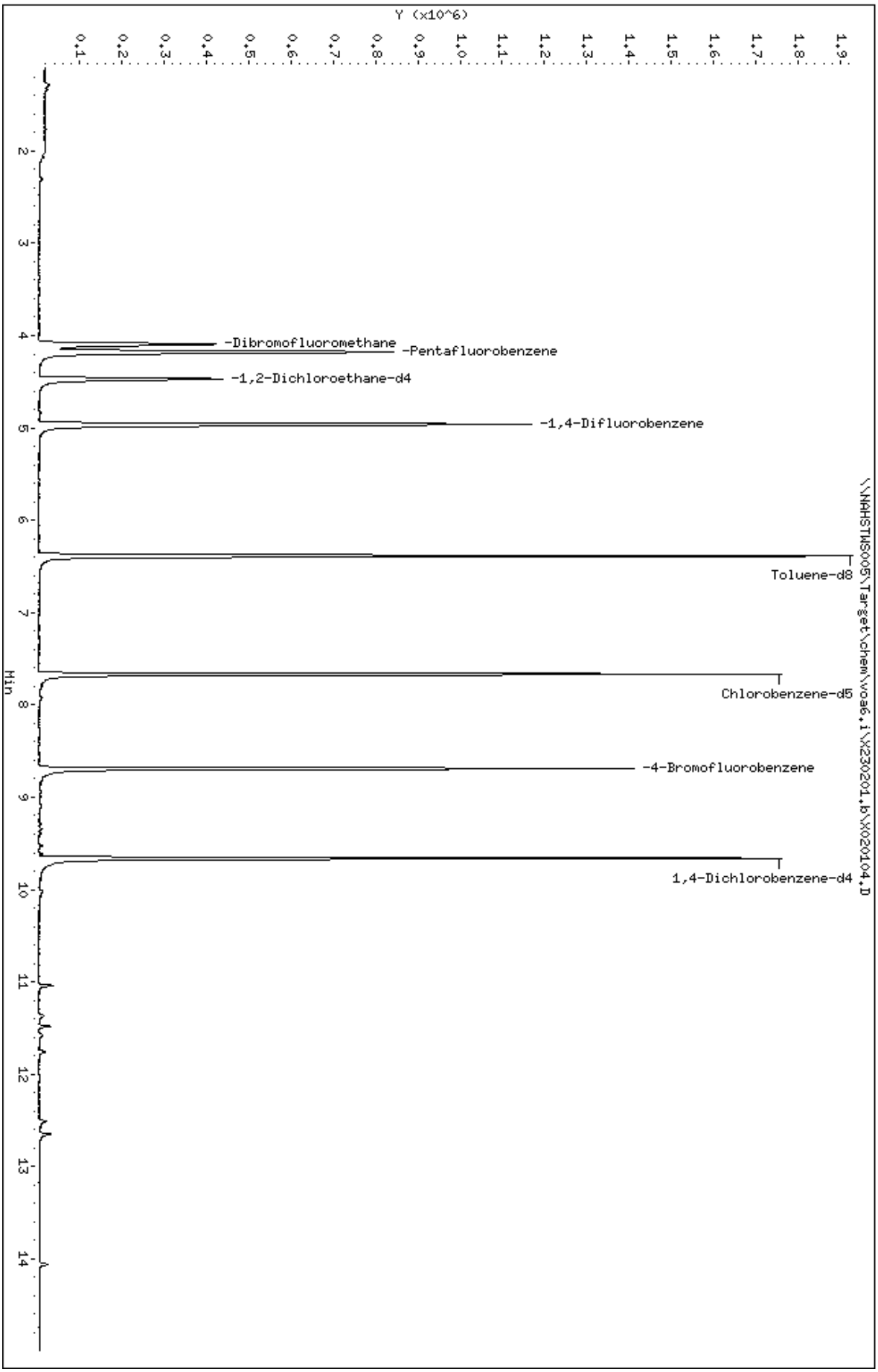
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.177	4.178	(1.000)	694183	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	303581	45.5301	45.53
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	346817	49.3001	49.30
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	975624	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	867529	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1123996	52.4319	52.43
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	408637	50.9959	50.99
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	444798	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020104.D
Date : 01-FEB-2023 11:39
Client ID: CCB
Sample Info: CCB;CCB;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18



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Inj Date : 01-FEB-2023 11:39
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020105.D Page 1
Report Date: 09-Feb-2023 17:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020105.D
Lab Smp Id: VLCSW-230201 Client Smp ID: VLCSW-230201
Inj Date : 01-FEB-2023 12:00
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230201;VLCSW-230201;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 09-Feb-2023 17:19 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

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	4.178	4.178	(1.000)	602534	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	23410	425.034	425.03(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	88950	21.5099	21.50
25 Methacrylonitrile	41	3.818	3.814	(0.914)	84024	19.6941	19.69
12 Isobutyl Alcohol	43	4.669	4.672	(1.118)	287213	423.794	423.79
13 Acetonitrile	39	2.198	2.195	(0.526)	115773	211.118	211.11
14 Allyl Chloride	41	2.198	2.195	(0.526)	214241	20.5127	20.51
4 Propionitrile	54	3.649	3.645	(0.873)	120852	196.571	196.57(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	37824	20.7954	20.79
130 Ethyl Acetate	43	3.653	3.649	(0.874)	101453	21.5780	21.57
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	87216	21.2287	21.22
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	89167	21.1051	21.10
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	27873	35.2228	35.22
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	214071	20.5018	20.50
156 Diisopropyl ether	45	2.997	2.997	(0.717)	303593	19.4234	19.42
182 Epichlorohydrin	57	6.097	6.093	(1.229)	31969	81.0698	81.06
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	448318	19.7558	19.75
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	229697	54.4705	54.47
3 Chloromethane	50	1.074	1.077	(0.257)	112124	21.8695	21.86
5 Vinyl Chloride	62	1.141	1.141	(0.273)	107921	20.5038	20.50

6 Bromomethane	94	1.336	1.336 (0.320)	70522	18.8536	18.85
7 Chloroethane	64	1.400	1.400 (0.335)	66936	18.2709	18.27

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020105.D Page 2
Report Date: 09-Feb-2023 17:19

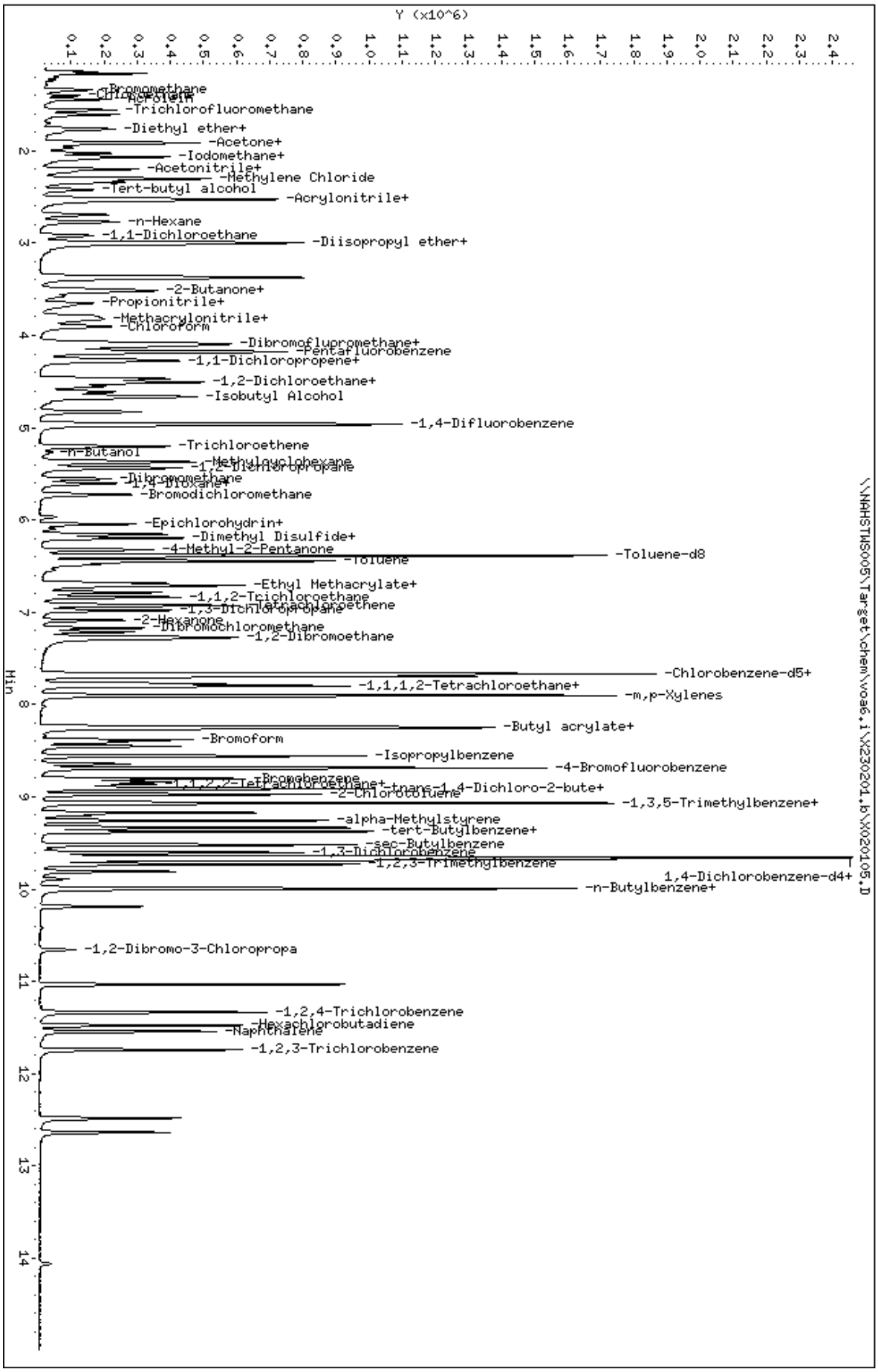
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	162588	22.0737	22.07
	9 Acrolein	56	1.441	1.445	(0.345)	15694	39.8325	39.83
	10 Acetone	43	1.970	1.970	(0.472)	70397	41.6188	41.61
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	89479	19.5670	19.56
	15 Iodomethane	142	2.026	2.026	(0.485)	218844	39.3534	39.35
	16 Acrylonitrile	53	2.532	2.528	(0.606)	65434	42.1891	42.18
	17 Methylene Chloride	84	2.300	2.299	(0.550)	120591	19.2250	19.22
	18 Methyl tert-butyl ether	73	2.528	2.532	(0.605)	298187	19.9213	19.92
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	488549	40.8331	40.83
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	102985	20.1222	20.12
	21 Vinyl Acetate	43	2.997	2.993	(0.717)	562939	42.8427	42.84
	22 1,1-Dichloroethane	63	2.922	2.918	(0.699)	181589	20.2167	20.21
	24 2-Butanone	43	3.578	3.570	(0.856)	70148	40.9586	40.95
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	174233	22.8462	22.84
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	121985	19.5850	19.58
	28 Chloroform	83	3.900	3.900	(0.934)	203782	20.2420	20.24
	29 Bromochloromethane	128	3.795	3.791	(0.908)	62154	18.2257	18.22
$	30 Dibromofluoromethane	113	4.091	4.095	(0.979)	272962	47.1708	47.17
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	179787	22.5086	22.50
	32 1,1-Dichloropropene	75	4.275	4.279	(0.862)	151081	23.7192	23.71
	33 1,2-Dichloroethane	62	4.553	4.552	(0.918)	165647	22.5341	22.53
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	155039	22.7938	22.79
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	314146	51.4365	51.43
*	36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	897186	50.0000	
	37 Benzene	78	4.508	4.507	(0.909)	441754	20.6190	20.61
	38 Trichloroethene	130	5.205	5.201	(1.049)	129894	21.3757	21.37
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	162256	20.1799	20.17
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	113563	49.6454	49.64
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	110443	19.3791	19.37
	44 Dibromomethane	93	5.550	5.550	(1.119)	74990	19.3590	19.35
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	183925	40.8409	40.84
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	194160	20.5615	20.56
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	842554	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	994101	47.7472	47.74
	50 Toluene	91	6.446	6.445	(0.841)	481070	20.6570	20.65
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	167901	21.4255	21.42
	52 2-Hexanone	43	7.087	7.083	(0.924)	135405	44.1922	44.19
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	89065	19.0633	19.06
	54 1,3-Dichloropropane	76	6.978	6.982	(0.910)	187483	20.3872	20.38
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	137136	20.3372	20.33
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	110009	22.8307	22.83
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	120146	20.5678	20.56
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	110753	25.5438	25.54
	59 Chlorobenzene	112	7.694	7.690	(1.003)	333167	20.1695	20.16
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	124528	20.2574	20.25
	61 Ethylbenzene	106	7.799	7.799	(1.017)	170607	21.9261	21.92
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	430939	42.9623	42.96
	63 o-Xylene	106	8.241	8.241	(1.075)	204579	20.6643	20.66
	64 Styrene	104	8.260	8.256	(1.077)	353089	21.2783	21.27
	66 Bromoform	173	8.410	8.410	(1.097)	92106	19.7165	19.71
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	519996	22.9902	22.99
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	149977	19.9677	19.96

$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	392046	50.3764	50.37
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	471247	50.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	110711	21.1135	21.11(M)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	616908	23.6337	23.63
74	Bromobenzene	156	8.803	8.803	(0.911)	160400	20.7463	20.74
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	450447	23.3597	23.35
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	384692	22.4585	22.45
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	448408	22.9637	22.96
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	378610	23.9863	23.98
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	453692	22.3607	22.36
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	531934	25.3281	25.32
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	476385	25.3133	25.31
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	276660	21.5592	21.55
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	293092	20.9303	20.93
87	n-Butylbenzene	91	9.992	9.992	(1.034)	424625	24.3558	24.35
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	274285	20.7538	20.75
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	24674	20.6018	20.60
90	1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	196694	23.5829	23.58
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	102726	27.9149	27.91
92	Naphthalene	128	11.544	11.540	(1.195)	404855	21.3342	21.33
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	179284	22.4439	22.44
M 94	1,2-Dichloroethylene (total)	96				224970	39.7072	39.70
M 95	Xylenes (total)	106				635518	63.6266	63.62
141	Cyclohexane	56	4.118	4.118	(0.986)	151152	25.5207	25.52
138	Freon TF	101	1.910	1.913	(0.457)	97779	22.1071	22.10
147	Methylcyclohexane	55	5.377	5.377	(1.084)	254745	23.1960	23.19
146	Methyl Acetate	43	2.228	2.228	(0.533)	54716	20.1810	20.18
148	Tert-Butyl alcohol	59	2.423	2.423	(0.580)	188823	452.581	452.58
149	Isopropyl Alcohol	45	2.090	2.090	(0.500)	99232	455.424	455.42

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VLCSW-230201
Sample Info: VLCSW-230201;VLCSW-230201;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

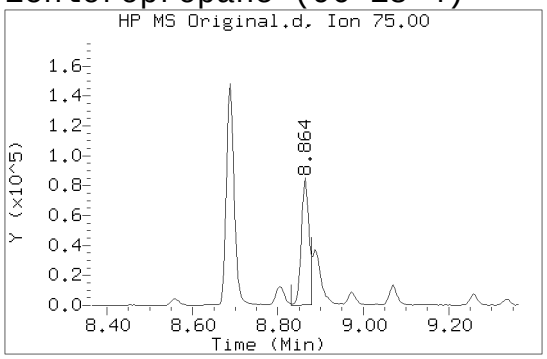
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020105.D
Inj Date : 01-FEB-2023 12:00
InstruID : voa6.i
LabSampID : VLCSW-230201

1,2,3-Trichloropropane (96-18-4)

Reason Code:

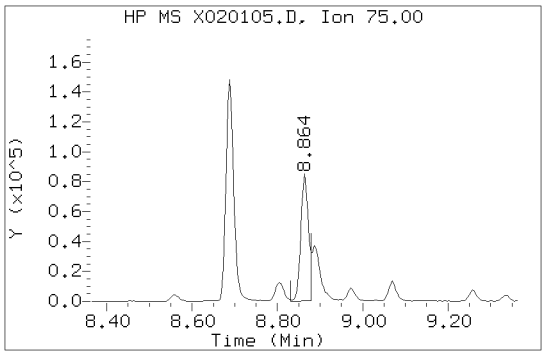
BEFORE

MASS
75
AREA
110711
HEIGHT
85180
09-Feb-2023
17:18
Kori
Bagsby



AFTER

MASS
75
AREA
110711
HEIGHT
85180
09-Feb-2023
17:18
Kori
Bagsby



BEFORE

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09-Feb-2023
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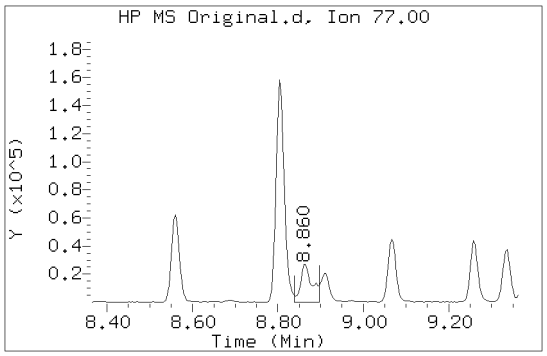

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09-Feb-2023
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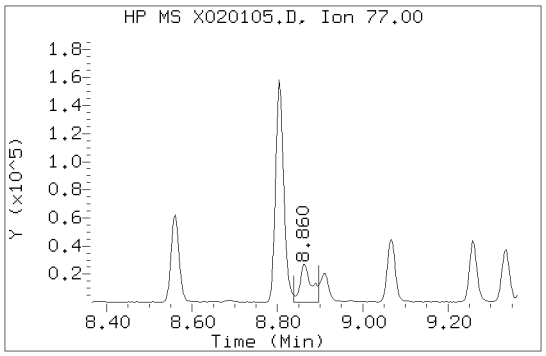


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020107.D Page 1
Report Date: 09-Feb-2023 17:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020107.D
Lab Smp Id: VBLKW-230201 Client Smp ID: VBLKW-230201
Inj Date : 01-FEB-2023 12:42
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230201;VBLKW-230201;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 09-Feb-2023 17:19 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

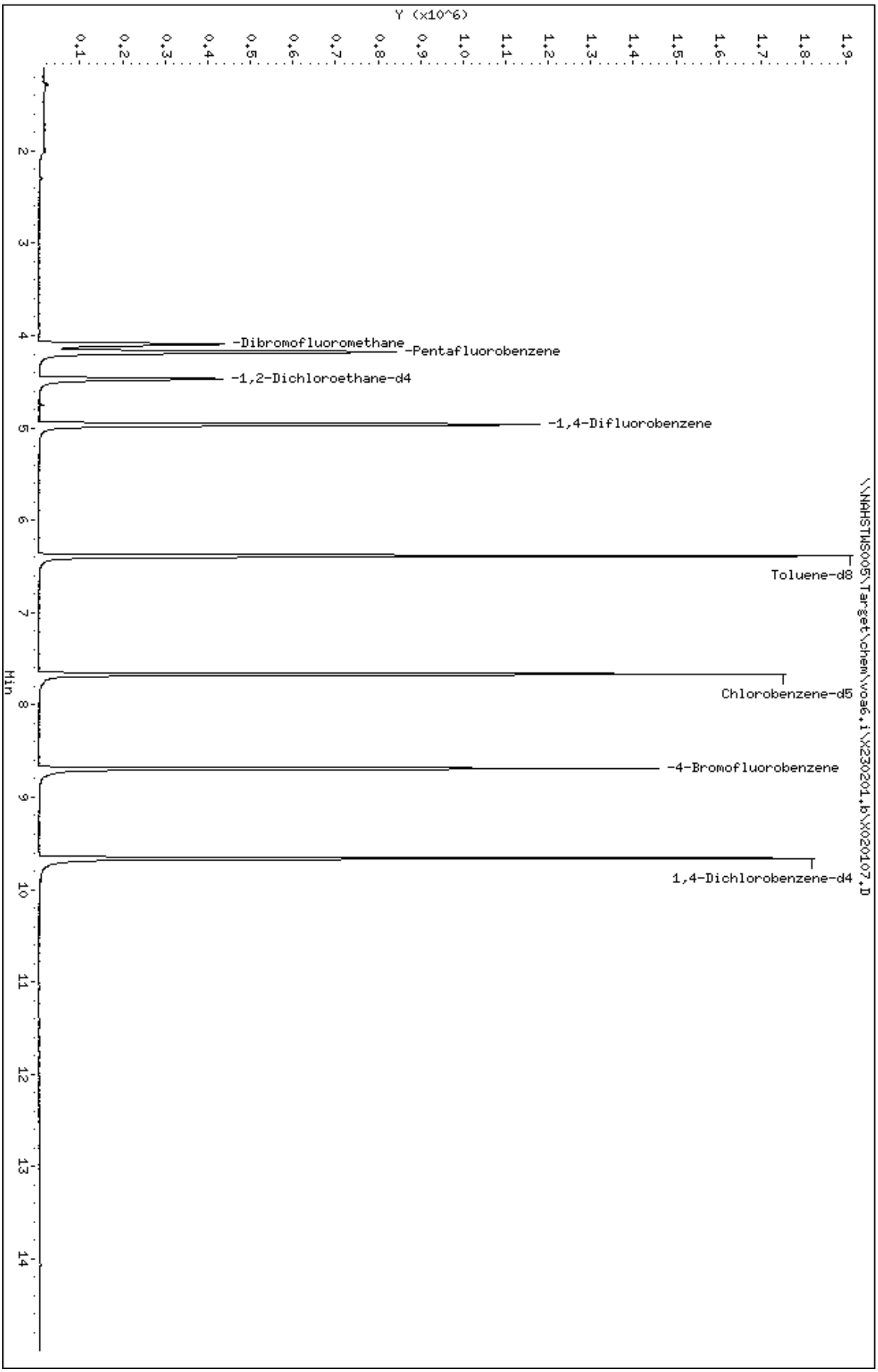
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.178	4.178	(1.000)	695936	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	309275	46.2699	46.26
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	351707	49.8662	49.86
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	984782	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	883477	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	1131227	51.8166	51.81
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	415072	50.8640	50.86
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	457336	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020107.D
Date : 01-FEB-2023 12:42
Client ID: VBLKW-230201
Sample Info: VBLKW-230201;VBLKW-230201;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18



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Inj Date : 01-FEB-2023 12:42
InstruID : voa6.i
LabSampID : VBLKW-230201

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020109.D Page 1
Report Date: 16-Feb-2023 14:12

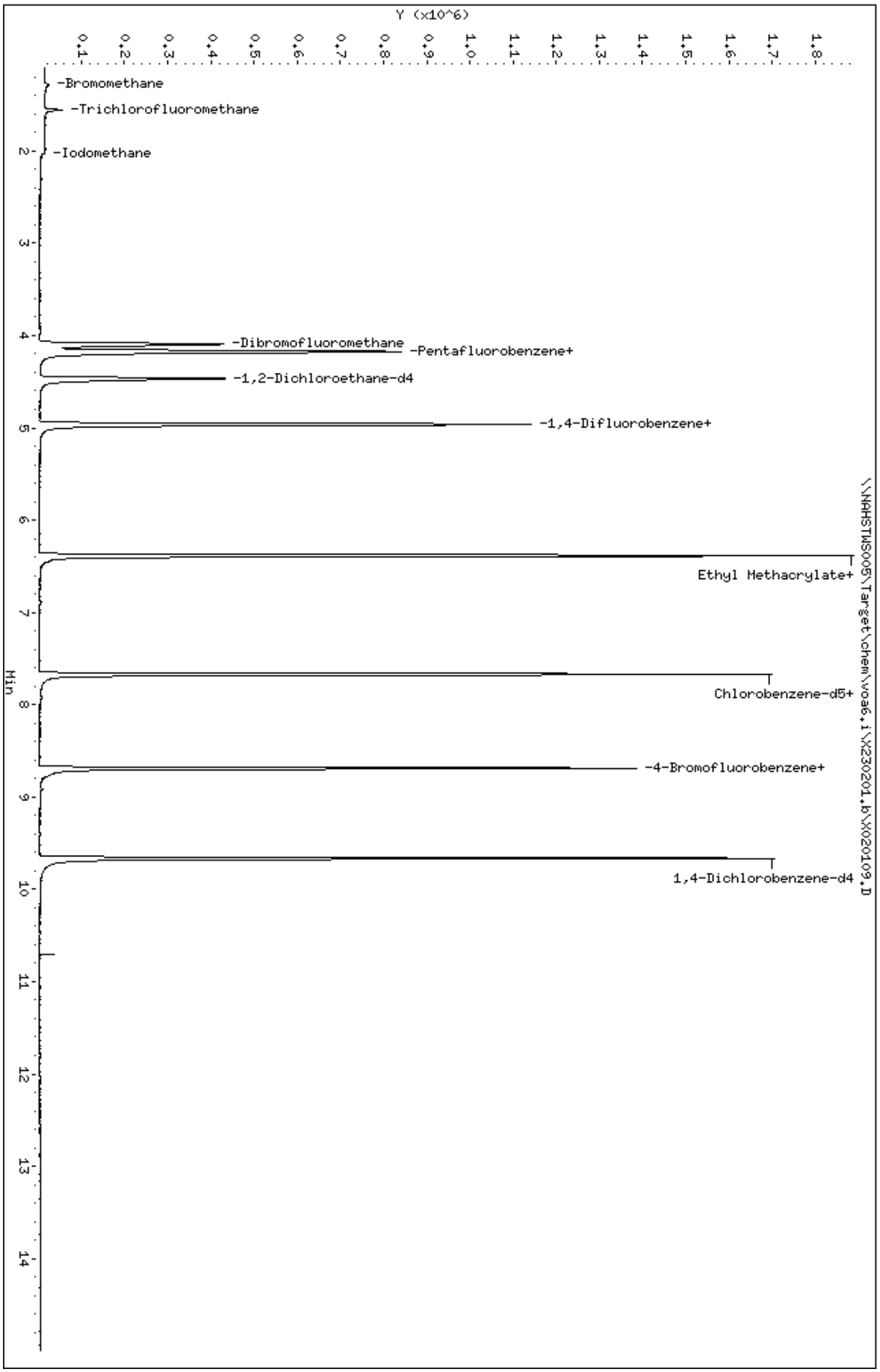
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020109.D
Lab Smp Id: HS23011294-11 Client Smp ID: HS23011294-11
Inj Date : 01-FEB-2023 13:24
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-11;HS23011294-11;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 13:00 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.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	4.177	4.178	(1.000)	693405	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	305905	45.9316	45.93
$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	349396	49.7201	49.72
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	966429	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	846043	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1114309	53.3001	53.30
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	399308	51.0970	51.09
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	434009	50.0000	



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Date : 01-FEB-2023 13:24
Client ID: HS23011294-11
Sample Info: HS23011294-11;HS23011294-11;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020109.D
Inj Date : 01-FEB-2023 13:24
InstruID : voa6.i
LabSampID : HS23011294-11

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020113.D Page 1
Report Date: 09-Feb-2023 17:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020113.D
Lab Smp Id: HS23011397-02MS Client Smp ID: HS23011397-02MS
Inj Date : 01-FEB-2023 14:48
Operator : PC Inst ID: voa6.i
Smp Info : HS23011397-02MS;HS23011397-02MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 09-Feb-2023 17:19 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

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	4.174	4.174	(1.000)	696603	50.0000	
135	1,4-Dioxane	88	5.598	5.595	(1.341)	25096	394.115	394.11(a)
140	1,3-Butadiene	54	1.164	1.160	(0.279)	78786	16.4793	16.47
25	Methacrylonitrile	41	3.818	3.818	(0.915)	87321	17.7031	17.70
12	Isobutyl Alcohol	43	4.672	4.669	(1.119)	313711	400.384	400.38
13	Acetonitrile	39	2.194	2.195	(0.526)	132002	208.206	208.20
14	Allyl Chloride	41	2.194	2.195	(0.526)	239368	19.8236	19.82
4	Propionitrile	54	3.649	3.645	(0.874)	128796	181.202	181.20(a)
72	trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	40801	21.3848	21.38
130	Ethyl Acetate	43	3.653	3.645	(0.875)	104606	19.2442	19.24
40	Methyl Methacrylate	41	5.606	5.602	(1.343)	93310	19.6450	19.64
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	83888	18.1059	18.10
142	Tetrahydrofuran	42	3.848	3.840	(0.922)	31094	33.8759	33.87
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	239472	22.4161	22.41
156	Diisopropyl ether	45	2.997	2.993	(0.718)	346814	19.1923	19.19
182	Epichlorohydrin	57	6.097	6.093	(1.229)	29322	68.2140	68.21
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	516292	22.2370	22.23
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	60344	12.6811	12.68
3	Chloromethane	50	1.074	1.074	(0.257)	92216	16.1959	16.19
5	Vinyl Chloride	62	1.141	1.141	(0.273)	100699	16.5481	16.54

6 Bromomethane	94	1.336	1.336 (0.320)	74277	17.3329	17.33
7 Chloroethane	64	1.400	1.400 (0.335)	66870	15.7880	15.78

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020113.D Page 2
Report Date: 09-Feb-2023 17:39

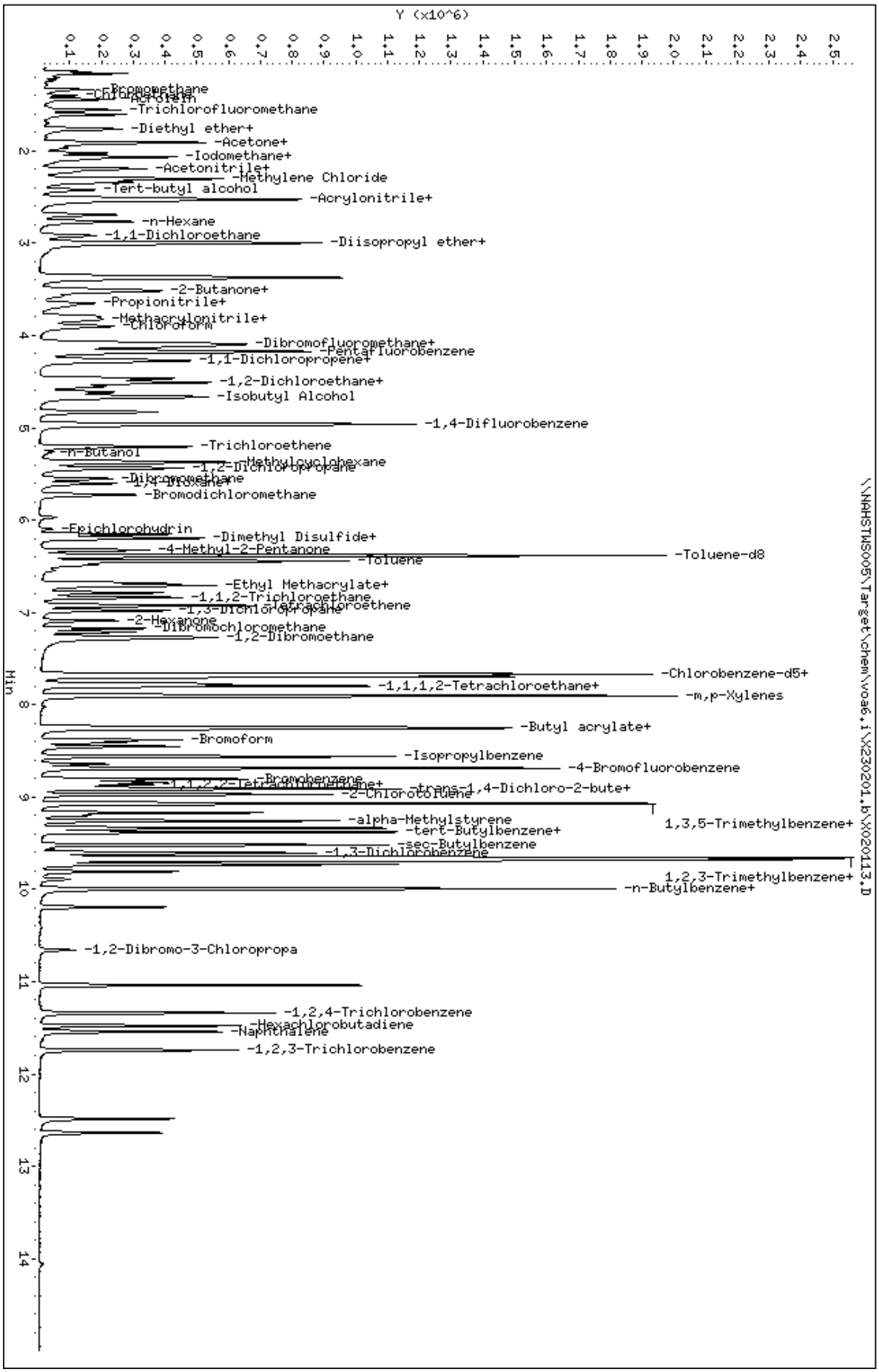
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	174469	20.4881	20.48
	9 Acrolein	56	1.441	1.441	(0.345)	18883	41.3396	41.33
	10 Acetone	43	1.969	1.966	(0.472)	51642	26.3954	26.39
	11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	96688	18.2882	18.28
	15 Iodomethane	142	2.022	2.026	(0.485)	211410	33.5016	33.50
	16 Acrylonitrile	53	2.532	2.528	(0.607)	70886	39.5325	39.53
	17 Methylene Chloride	84	2.299	2.300	(0.551)	122041	16.8288	16.82
	18 Methyl tert-butyl ether	73	2.528	2.532	(0.606)	336427	19.4409	19.44
	19 Carbon Disulfide	76	2.063	2.067	(0.494)	548687	39.6666	39.66
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.606)	115433	19.5087	19.50
	21 Vinyl Acetate	43	2.997	2.993	(0.718)	590570	38.8762	38.87
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	195494	18.8257	18.82
	24 2-Butanone	43	3.578	3.570	(0.857)	66110	33.9473	33.94
	26 2,2-Dichloropropane	77	3.506	3.507	(0.840)	193108	21.9018	21.90
	27 cis-1,2-Dichloroethene	96	3.521	3.522	(0.844)	132013	18.3328	18.33
	28 Chloroform	83	3.900	3.900	(0.934)	221918	19.0667	19.06
	29 Bromochloromethane	128	3.795	3.788	(0.909)	69016	17.5050	17.50
$	30 Dibromofluoromethane	113	4.095	4.091	(0.981)	299760	44.7982	44.79
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	203825	22.0721	22.07
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	172369	24.6768	24.67
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	166566	20.6624	20.66
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	178695	23.9567	23.95
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.070)	349959	49.5724	49.57
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	983884	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	479027	20.3885	20.38
	38 Trichloroethene	130	5.205	5.205	(1.049)	161688	24.2632	24.26
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	174455	19.7852	19.78
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	118998	19.0403	19.04
	44 Dibromomethane	93	5.549	5.550	(1.119)	80468	18.9426	18.94
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	188345	39.8697	39.86
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	205120	19.8080	19.80
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	883819	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1138385	52.1243	52.12
	50 Toluene	91	6.445	6.446	(0.841)	537849	22.0168	22.01
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	173933	20.2394	20.23
	52 2-Hexanone	43	7.086	7.083	(0.924)	130445	40.5857	40.58
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	95582	19.5030	19.50
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	197605	20.4846	20.48
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	143680	20.3128	20.31
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	130643	25.8471	25.84
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	127153	20.7510	20.75
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	130454	27.4363	27.43
	59 Chlorobenzene	112	7.694	7.690	(1.003)	366122	21.1297	21.12
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	135502	21.0135	21.01
	61 Ethylbenzene	106	7.799	7.799	(1.017)	193139	23.6629	23.66
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	484476	46.0446	46.04
	63 o-Xylene	106	8.241	8.237	(1.075)	230137	22.1605	22.16
	64 Styrene	104	8.260	8.256	(1.077)	383993	22.0603	22.06
	66 Bromoform	173	8.410	8.410	(1.097)	96017	19.5941	19.59
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	607911	25.6222	25.62
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	153527	19.9783	19.97
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	425159	52.0784	52.07

*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	482145	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	113510	21.1580	21.15(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	712142	26.6654	26.66
74	Bromobenzene	156	8.807	8.803	(0.912)	172235	21.7735	21.77
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	512227	25.9632	25.96
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	427131	24.3725	24.37
77	4-Chlorotoluene	91	9.069	9.070	(0.939)	492347	24.6439	24.64
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	440904	27.3015	27.30
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	506273	24.3882	24.38
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	631481	29.3884	29.38
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	549808	28.5543	28.55
83	1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	302928	23.0726	23.07
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	317968	22.1935	22.19
87	n-Butylbenzene	91	9.995	9.992	(1.035)	482764	26.8672	26.86
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	295687	21.8675	21.86
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	24051	19.6321	19.63
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	209929	24.6008	24.60
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	106170	28.1973	28.19
92	Naphthalene	128	11.543	11.540	(1.195)	415520	21.4013	21.40
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	183254	22.4224	22.42
M 94	1,2-Dichloroethylene (total)	96				247446	37.8415	37.84
M 95	Xylenes (total)	106				714613	68.2051	68.20
141	Cyclohexane	56	4.117	4.118	(0.987)	188462	27.4243	27.42
138	Freon TF	101	1.909	1.910	(0.458)	110188	21.5484	21.54
147	Methylcyclohexane	55	5.377	5.377	(1.084)	295965	24.5746	24.57
146	Methyl Acetate	43	2.228	2.228	(0.534)	59252	18.9028	18.90
148	Tert-Butyl alcohol	59	2.423	2.423	(0.581)	194032	402.263	402.26
149	Isopropyl Alcohol	45	2.089	2.090	(0.501)	104756	415.852	415.85

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 01-FEB-2023 14:48
Client ID: HS23011397-02MS
Sample Info: HS23011397-02MS;HS23011397-02MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Page 1

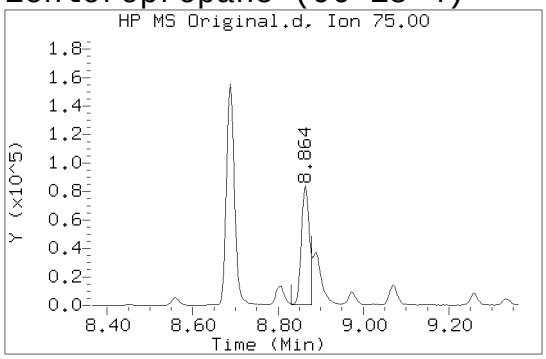
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020113.D
Inj Date : 01-FEB-2023 14:48
InstruID : voa6.i
LabSampID : HS23011397-02MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
75
AREA
113510
HEIGHT
84040
09-Feb-2023
17:18
Kori
Bagsby



AFTER

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09-Feb-2023
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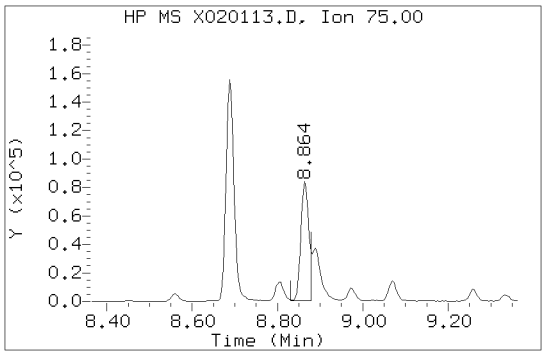

BEFORE

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HEIGHT
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09-Feb-2023
17:18
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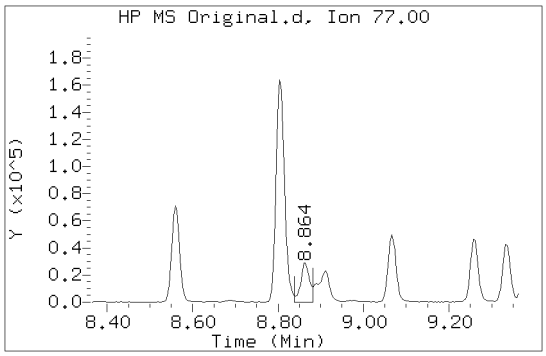
Bagsby



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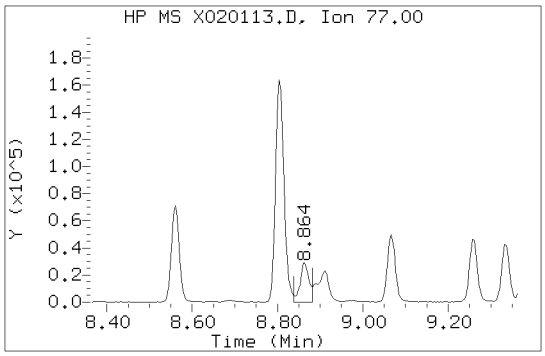

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020114.D Page 1
Report Date: 14-Feb-2023 12:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020114.D
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Inj Date : 01-FEB-2023 15:09
Operator : PC Inst ID: voa6.i
Smp Info : HS23011397-02MSD;HS23011397-02MSD;3;;MSD
Misc Info : V6;WATER;0;1;
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Meth Date : 09-Feb-2023 17:19 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.174	(1.000)	687487	50.0000	
135	1,4-Dioxane	88	5.598	5.595	(1.340)	24299	386.659	386.65(a)
140	1,3-Butadiene	54	1.160	1.160	(0.278)	73879	15.6578	15.65
25	Methacrylonitrile	41	3.821	3.818	(0.915)	83650	17.1837	17.18
12	Isobutyl Alcohol	43	4.672	4.669	(1.118)	302328	390.973	390.97
13	Acetonitrile	39	2.194	2.195	(0.525)	127186	203.270	203.27
14	Allyl Chloride	41	2.194	2.195	(0.525)	226446	19.0021	19.00
4	Propionitrile	54	3.649	3.645	(0.873)	120889	172.333	172.33(a)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	38077	20.2141	20.21
130	Ethyl Acetate	43	3.649	3.645	(0.873)	98042	18.2758	18.27
40	Methyl Methacrylate	41	5.606	5.602	(1.342)	85948	18.3349	18.33
49	Ethyl Methacrylate	69	6.708	6.708	(1.351)	78208	17.0314	17.03
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	29841	32.8546	32.85
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	231442	22.1245	22.12
156	Diisopropyl ether	45	2.997	2.993	(0.717)	333118	18.6788	18.67
182	Epichlorohydrin	57	6.097	6.093	(1.228)	26295	61.9588	61.95
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	486365	21.3928	21.39
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	57298	12.2155	12.21
3	Chloromethane	50	1.074	1.074	(0.257)	91118	16.2126	16.21
5	Vinyl Chloride	62	1.141	1.141	(0.273)	92739	15.4421	15.44

6 Bromomethane	94	1.336	1.336 (0.320)	67687	16.1397	16.13
7 Chloroethane	64	1.400	1.400 (0.335)	65050	15.5619	15.56

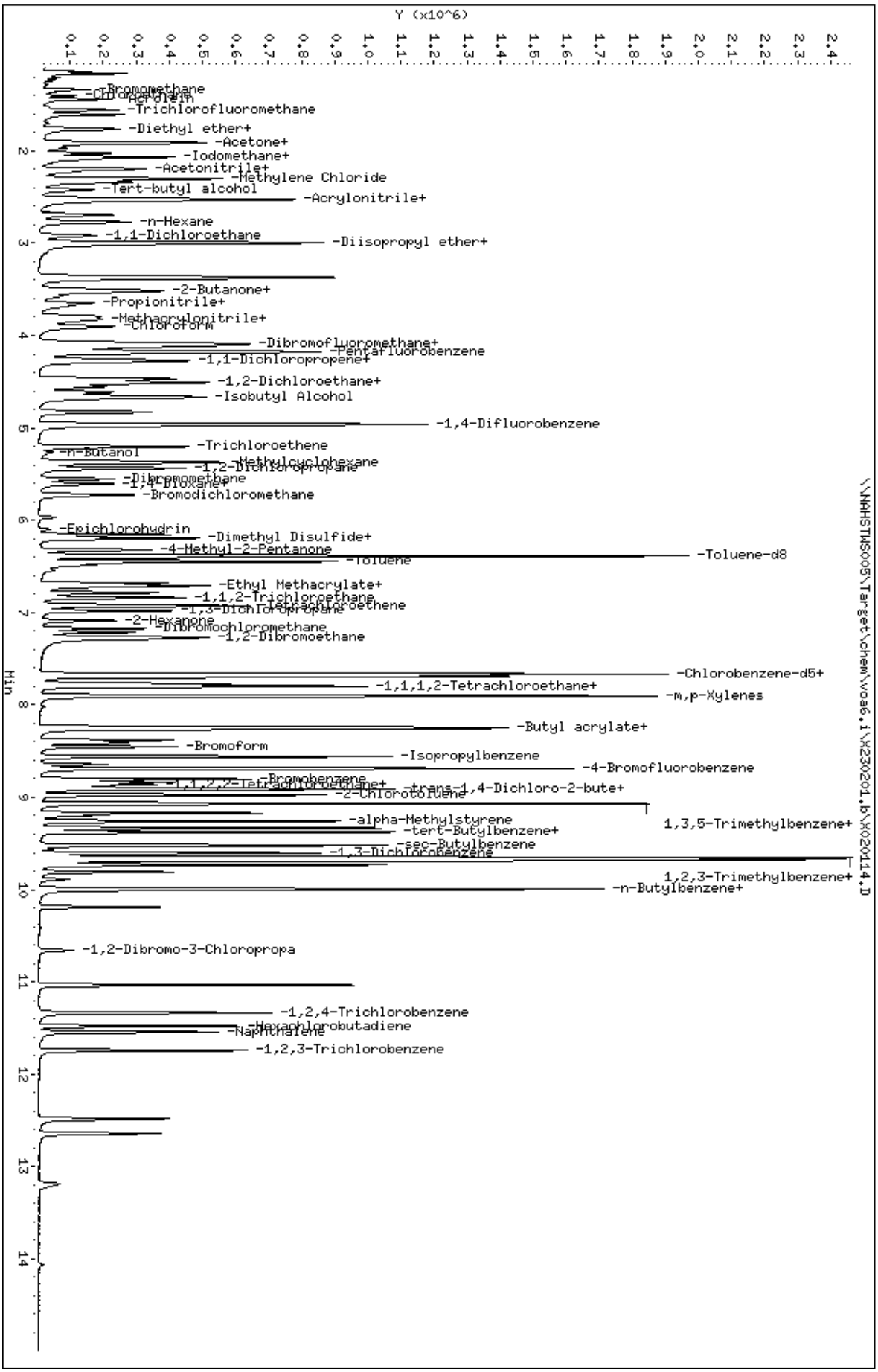
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	166324	19.7906	19.79
	9 Acrolein	56	1.441	1.441	(0.345)	15923	35.7324	35.73
	10 Acetone	43	1.970	1.966	(0.472)	49970	25.8788	25.87
	11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	93239	17.8697	17.86
	15 Iodomethane	142	2.026	2.026	(0.485)	220081	35.1347	35.13
	16 Acrylonitrile	53	2.532	2.528	(0.606)	63013	35.6077	35.60
	17 Methylene Chloride	84	2.299	2.300	(0.550)	117617	16.4338	16.43
	18 Methyl tert-butyl ether	73	2.528	2.532	(0.605)	325161	19.0390	19.03
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	515481	37.7602	37.76
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	110267	18.8827	18.88
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	568444	37.9158	37.91
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	188846	18.4266	18.42
	24 2-Butanone	43	3.574	3.570	(0.856)	62780	32.7791	32.77
	26 2,2-Dichloropropane	77	3.503	3.507	(0.838)	183849	21.1282	21.12
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	126413	17.7879	17.78
	28 Chloroform	83	3.900	3.900	(0.934)	212216	18.4749	18.47
	29 Bromochloromethane	128	3.795	3.788	(0.908)	65205	16.7577	16.75
$	30 Dibromofluoromethane	113	4.095	4.091	(0.980)	297227	45.0094	45.00
	31 1,1,1-Trichloroethane	97	4.076	4.080	(0.976)	196297	21.5387	21.53
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	164021	23.6923	23.69
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	168391	21.0762	21.07
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	169063	22.8688	22.86
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	339829	48.7802	48.78
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	975136	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	459492	19.7325	19.73
	38 Trichloroethene	130	5.205	5.205	(1.048)	152616	23.1073	23.10
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	166372	19.0377	19.03
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	115548	18.6542	18.65
	44 Dibromomethane	93	5.553	5.550	(1.119)	77859	18.4929	18.49
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	185092	39.6857	39.68
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	198293	19.3205	19.32
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	872582	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1123446	52.1028	52.10
	50 Toluene	91	6.445	6.446	(0.841)	509236	21.1140	21.11
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	168348	19.7653	19.76
	52 2-Hexanone	43	7.086	7.083	(0.924)	121768	38.3739	38.37
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	92917	19.2034	19.20
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	187457	19.6829	19.68
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	139727	20.0084	20.00
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	121526	24.3530	24.35
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	124567	20.5908	20.59
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	125971	26.7312	26.73
	59 Chlorobenzene	112	7.690	7.690	(1.003)	348571	20.3758	20.37
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	130775	20.5416	20.54
	61 Ethylbenzene	106	7.799	7.799	(1.017)	182650	22.6660	22.66
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	460691	44.3479	44.34
	63 o-Xylene	106	8.241	8.237	(1.075)	218439	21.3050	21.30
	64 Styrene	104	8.260	8.256	(1.077)	367888	21.4072	21.40
	66 Bromoform	173	8.410	8.410	(1.097)	92835	19.1887	19.18
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	576299	24.6027	24.60
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	147226	19.5652	19.56
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	419272	52.0188	52.01

*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	472119	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	108116	20.5805	20.58(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	678676	25.9520	25.95
	74 Bromobenzene	156	8.803	8.803	(0.911)	164836	21.2806	21.28
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	489344	25.3300	25.33
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	410484	23.9200	23.92
	77 4-Chlorotoluene	91	9.069	9.070	(0.939)	471865	24.1203	24.12
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	418035	26.4351	26.43
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	487102	23.9630	23.96
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	591401	28.1076	28.10
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	517916	27.4692	27.46
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	292602	22.7594	22.75
	84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	302974	21.5960	21.59
	87 n-Butylbenzene	91	9.995	9.992	(1.035)	462056	26.3009	26.30
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	286231	21.6177	21.61
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	23765	19.8098	19.80
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	200680	24.0163	24.01
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	100600	27.2896	27.28
	92 Naphthalene	128	11.544	11.540	(1.195)	403241	21.2099	21.20
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	177294	22.1538	22.15
M	94 1,2-Dichloroethylene (total)	96				236680	36.6707	36.67
M	95 Xylenes (total)	106				679130	65.6529	65.65
	141 Cyclohexane	56	4.118	4.118	(0.986)	179721	26.5416	26.54
	138 Freon TF	101	1.913	1.910	(0.458)	105729	20.9506	20.95
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	280621	23.5095	23.50
	146 Methyl Acetate	43	2.228	2.228	(0.533)	55572	17.9639	17.96
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	186573	391.929	391.92
	149 Isopropyl Alcohol	45	2.089	2.090	(0.500)	100087	402.586	402.58

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS23011397-02HSD;HS23011397-02HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020114.D
Inj Date : 01-FEB-2023 15:09
InstruID : voa6.i
LabSampID : HS23011397-02MSD

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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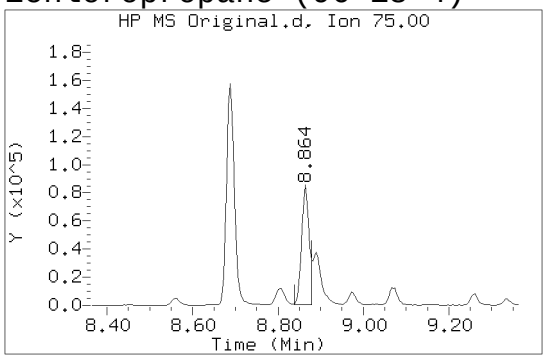
14-Feb-2023
12:16
linh
pham



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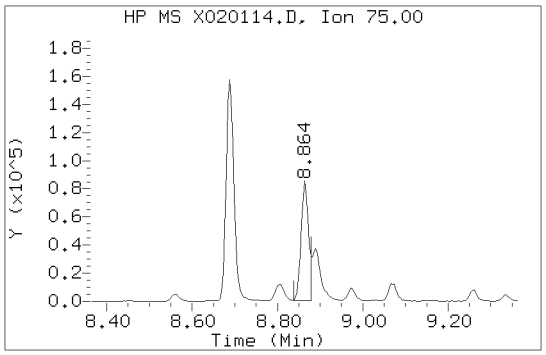

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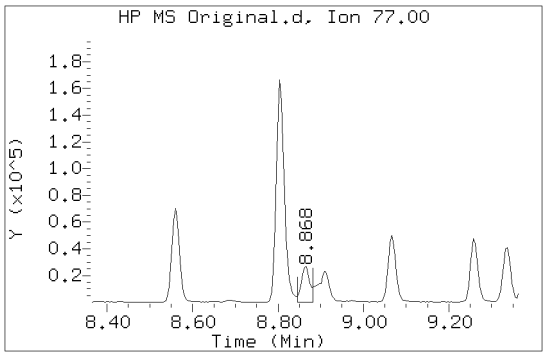

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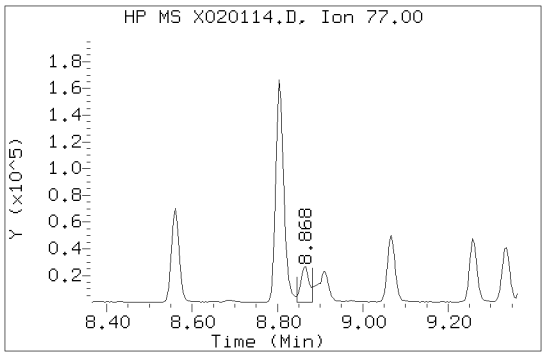

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Report Date: 14-Feb-2023 12:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020130.D
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Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 14-Feb-2023 12:16 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.174	4.174	(1.000)	568208	50.0000	
135 1,4-Dioxane	88	5.595	5.595	(1.340)	60437	1000.00	1163.58
140 1,3-Butadiene	54	1.160	1.160	(0.278)	197879	50.0000	50.74
25 Methacrylonitrile	41	3.818	3.818	(0.915)	206167	50.0000	51.24
12 Isobutyl Alcohol	43	4.669	4.669	(1.119)	689702	1000.00	1079.16
13 Acetonitrile	39	2.195	2.195	(0.526)	268599	500.000	519.39
14 Allyl Chloride	41	2.195	2.195	(0.526)	503991	50.0000	51.17
4 Propionitrile	54	3.645	3.645	(0.873)	299827	500.000	517.14
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	94046	50.0000	53.49
130 Ethyl Acetate	43	3.645	3.645	(0.873)	245497	50.0000	55.36
40 Methyl Methacrylate	41	5.602	5.602	(1.342)	217670	50.0000	56.18
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	213466	50.0000	52.52
142 Tetrahydrofuran	42	3.840	3.840	(0.920)	69840	100.000	98.83
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	519725	50.0000	51.14
156 Diisopropyl ether	45	2.993	2.993	(0.717)	731123	50.0000	49.60
182 Epichlorohydrin	57	6.093	6.093	(1.228)	78363	200.000	202.70
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1124415	50.0000	50.91
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	528125	50.0000	132.24
3 Chloromethane	50	1.074	1.074	(0.257)	249015	50.0000	48.50
5 Vinyl Chloride	62	1.141	1.141	(0.274)	247315	50.0000	49.82

6 Bromomethane	94	1.336	1.336 (0.320)	167535	50.0000	44.81
7 Chloroethane	64	1.400	1.400 (0.335)	151174	50.0000	43.75

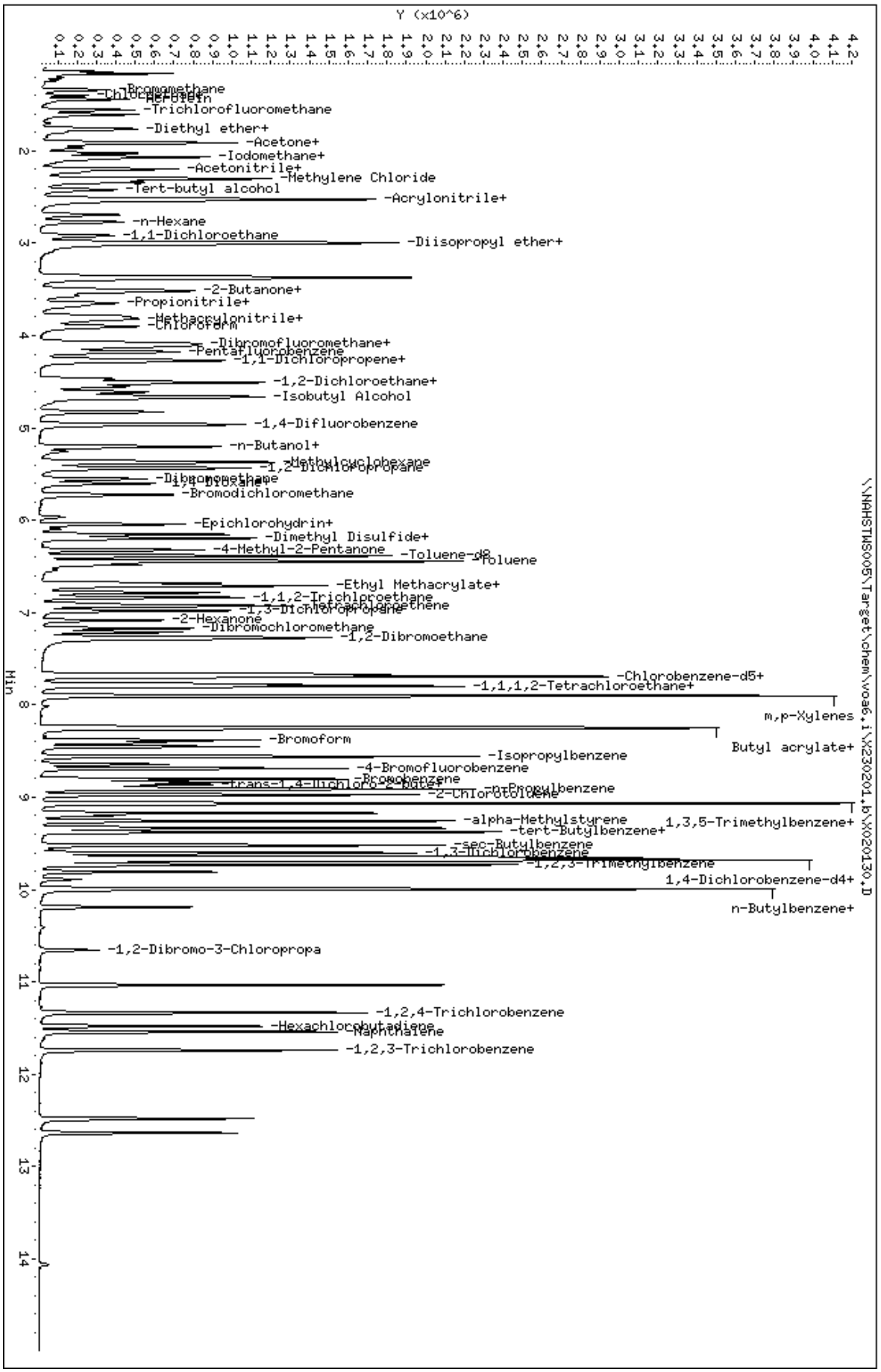
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	359256	50.0000	51.72
	9 Acrolein	56	1.441	1.441	(0.345)	37972	100.000	97.77
	10 Acetone	43	1.966	1.966	(0.471)	160466	100.000	100.64
	11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	199100	50.0000	46.16
	15 Iodomethane	142	2.026	2.026	(0.485)	533432	100.000	94.28
	16 Acrylonitrile	53	2.528	2.528	(0.606)	155947	100.000	106.62
	17 Methylene Chloride	84	2.300	2.300	(0.551)	280367	50.0000	47.39
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.607)	705860	50.0000	50.00
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1091503	100.000	96.73
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	241784	50.0000	50.09
	21 Vinyl Acetate	43	2.993	2.993	(0.717)	1229991	100.000	99.26
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	422782	50.0000	49.91
	24 2-Butanone	43	3.570	3.570	(0.855)	183851	100.000	108.45
	26 2,2-Dichloropropane	77	3.507	3.507	(0.840)	350620	50.0000	48.75
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	284933	50.0000	48.51
	28 Chloroform	83	3.900	3.900	(0.934)	486288	50.0000	51.22
	29 Bromochloromethane	128	3.788	3.788	(0.908)	154737	50.0000	48.11
$	30 Dibromofluoromethane	113	4.091	4.091	(0.980)	273276	50.0000	50.08
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	412937	50.0000	54.82
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	344386	50.0000	56.20
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	401267	50.0000	56.74
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	346572	50.0000	52.96
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.071)	310795	50.0000	53.94
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	863055	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	1054311	50.0000	51.15
	38 Trichloroethene	130	5.205	5.205	(1.049)	312747	50.0000	53.50
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	396380	50.0000	51.24
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	285652	100.000	129.81
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	271227	50.0000	49.47
	44 Dibromomethane	93	5.550	5.550	(1.119)	185981	50.0000	49.91
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	465740	100.000	107.00
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	471126	50.0000	51.86
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	814334	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1030654	50.0000	51.21
	50 Toluene	91	6.446	6.446	(0.841)	1149245	50.0000	51.05
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	408778	50.0000	54.22
	52 2-Hexanone	43	7.083	7.083	(0.924)	329048	100.000	111.11
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	229011	50.0000	50.71
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	463399	50.0000	52.13
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	343024	50.0000	52.63
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	244730	50.0000	52.55
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	302574	50.0000	53.59
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	218668	50.0000	52.42
	59 Chlorobenzene	112	7.690	7.690	(1.003)	802322	50.0000	50.25
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	312892	50.0000	52.66
	61 Ethylbenzene	106	7.799	7.799	(1.017)	391873	50.0000	52.10
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	987284	100.000	101.83
	63 o-Xylene	106	8.237	8.237	(1.074)	486997	50.0000	50.89
	64 Styrene	104	8.256	8.256	(1.077)	859246	50.0000	53.57
	66 Bromoform	173	8.410	8.410	(1.097)	237691	50.0000	52.64
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1191065	50.0000	54.48
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	362562	50.0000	49.59

$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	400872	50.0000	53.29
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	458624	50.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	287231	50.0000	56.28(M)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	1397784	50.0000	55.02
74	Bromobenzene	156	8.803	8.803	(0.911)	392138	50.0000	52.11
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1041126	50.0000	55.47
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	889489	50.0000	53.35
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	1040072	50.0000	54.72
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	852054	50.0000	55.46
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1066924	50.0000	54.03
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1174946	50.0000	57.48
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1047413	50.0000	57.18
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	661551	50.0000	52.97
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	698096	50.0000	51.22
87	n-Butylbenzene	91	9.992	9.992	(1.034)	900823	50.0000	50.99
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	673705	50.0000	52.37
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	63303	50.0000	54.15
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	465975	50.0000	57.40
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	192243	50.0000	53.39
92	Naphthalene	128	11.540	11.540	(1.194)	1040282	50.0000	56.32
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	427680	50.0000	55.01
M 94	1,2-Dichloroethylene (total)	96				526717	100.000	(a)
141	Cyclohexane	56	4.118	4.118	(0.987)	305162	50.0000	53.19
138	Freon TF	101	1.910	1.910	(0.458)	205380	50.0000	49.23
147	Methylcyclohexane	55	5.377	5.377	(1.084)	624229	50.0000	59.08
146	Methyl Acetate	43	2.228	2.228	(0.534)	130899	50.0000	51.19
148	Tert-Butyl alcohol	59	2.423	2.423	(0.581)	449946	1000.00	1143.60
149	Isopropyl Alcohol	45	2.090	2.090	(0.501)	240832	1000.00	1172.06

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230201.b\X020130.D
Date : 01-FEB-2023 20:54
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\X020130.D
Inj Date : 01-FEB-2023 20:54
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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75
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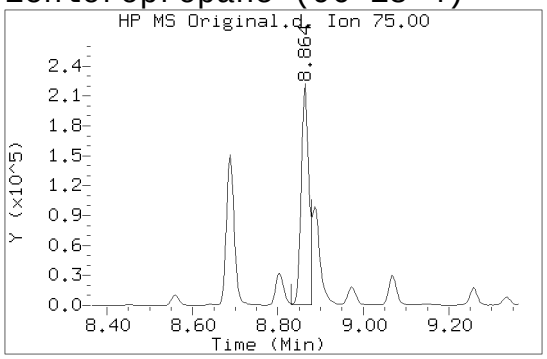
287231
HEIGHT
221974
14-Feb-2023
12:16
linh
pham



AFTER

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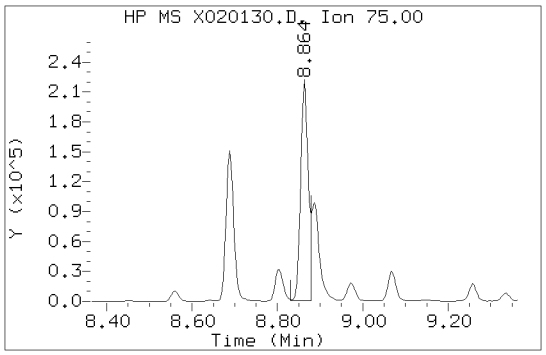

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14-Feb-2023
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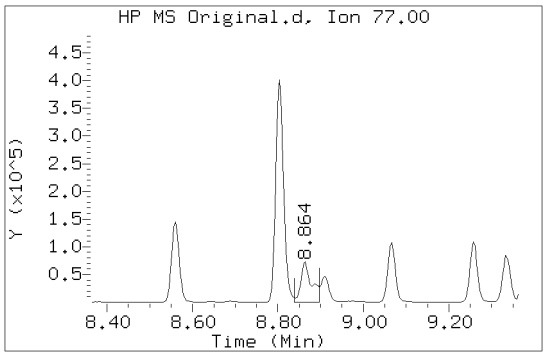

AFTER

MASS
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14-Feb-2023
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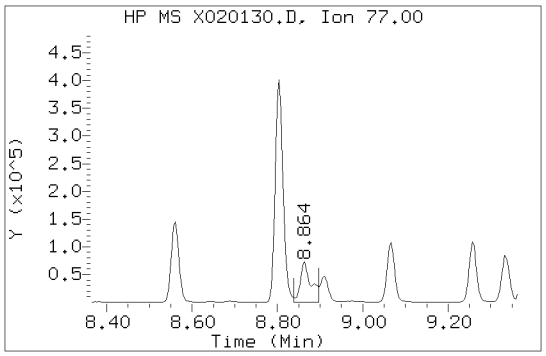


right solutions.
right partner.

Raw Data VOA6 427117

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\X230201.b\Y020101.D Page 1
Report Date: 01-Feb-2023 21:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020101.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-FEB-2023 21:15
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 30 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

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)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	143744			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	27016			15.00- 40.00	18.79
8.687	8.889	(0.000)	75	70144			30.00- 60.00	48.80
8.687	8.889	(0.000)	96	10221			5.00- 9.00	7.11
8.687	8.889	(0.000)	173	1118			0.00- 2.00	0.96
8.687	8.889	(0.000)	174	116912			50.00- 0.00	81.33
8.687	8.889	(0.000)	175	10042			5.00- 9.00	8.59
8.687	8.889	(0.000)	176	113640			95.00- 101.00	97.20
8.687	8.889	(0.000)	177	8711			5.00- 9.00	7.67

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.79
75	30.00 - 60.00% of mass 95	48.80
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.78 (0.96)
174	Greater than 50.00% of mass 95	81.33
175	5.00 - 9.00% of mass 174	6.99 (8.59)
176	95.00 - 101.00% of mass 174	79.06 (97.20)
177	5.00 - 9.00% of mass 176	6.06 (7.67)

Data File: Y020101.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 115

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1636	64.90	66	96.90	367	140.80	1197
37.00	6747	66.90	525	98.10	1282	141.80	178
38.00	5533	68.00	13723	99.00	65	142.90	1336
39.00	3148	69.00	15722	102.90	301	143.90	135
39.90	1545	70.00	2013	103.80	884	144.90	78
41.10	1486	71.10	165	104.90	405	146.00	182
42.10	1900	72.00	709	105.80	643	146.70	180
43.00	1084	73.00	6094	106.90	507	147.80	361
44.10	1655	74.00	22504	108.80	329	148.70	91
45.10	1532	75.00	70144	110.00	126	150.00	232
45.80	99	76.00	6758	110.90	124	151.70	100
47.00	1612	77.00	846	111.90	133	152.70	94
48.00	699	77.90	509	114.80	138	153.90	53
49.00	6082	78.90	4526	115.80	633	154.80	426
50.00	27016	79.90	1457	116.80	986	155.80	85
51.00	8592	80.90	3825	118.00	524	156.60	173
52.00	476	81.90	944	118.80	748	157.10	105
52.90	250	82.90	432	119.80	72	158.80	131
54.00	157	84.10	154	120.20	59	160.70	127
55.10	3183	85.00	217	123.60	113	171.00	76
56.00	2531	86.00	198	126.60	87	172.90	1118
57.00	4072	86.90	5549	127.90	582	173.90	116912
58.20	325	88.00	4878	128.80	171	174.90	10042
59.00	104	90.90	817	129.90	544	175.90	113640
59.90	1514	92.00	3906	130.70	111	176.90	8711
61.00	6774	93.00	5571	134.90	290	178.00	244
62.00	6628	94.00	16176	136.60	109	233.70	52
63.00	4949	95.00	143744	138.90	100	235.80	87
64.00	561	96.00	10221	139.90	127		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020101.D

Date : 01-FEB-2023 21:15

Client ID: BFB

Instrument: voa6.i

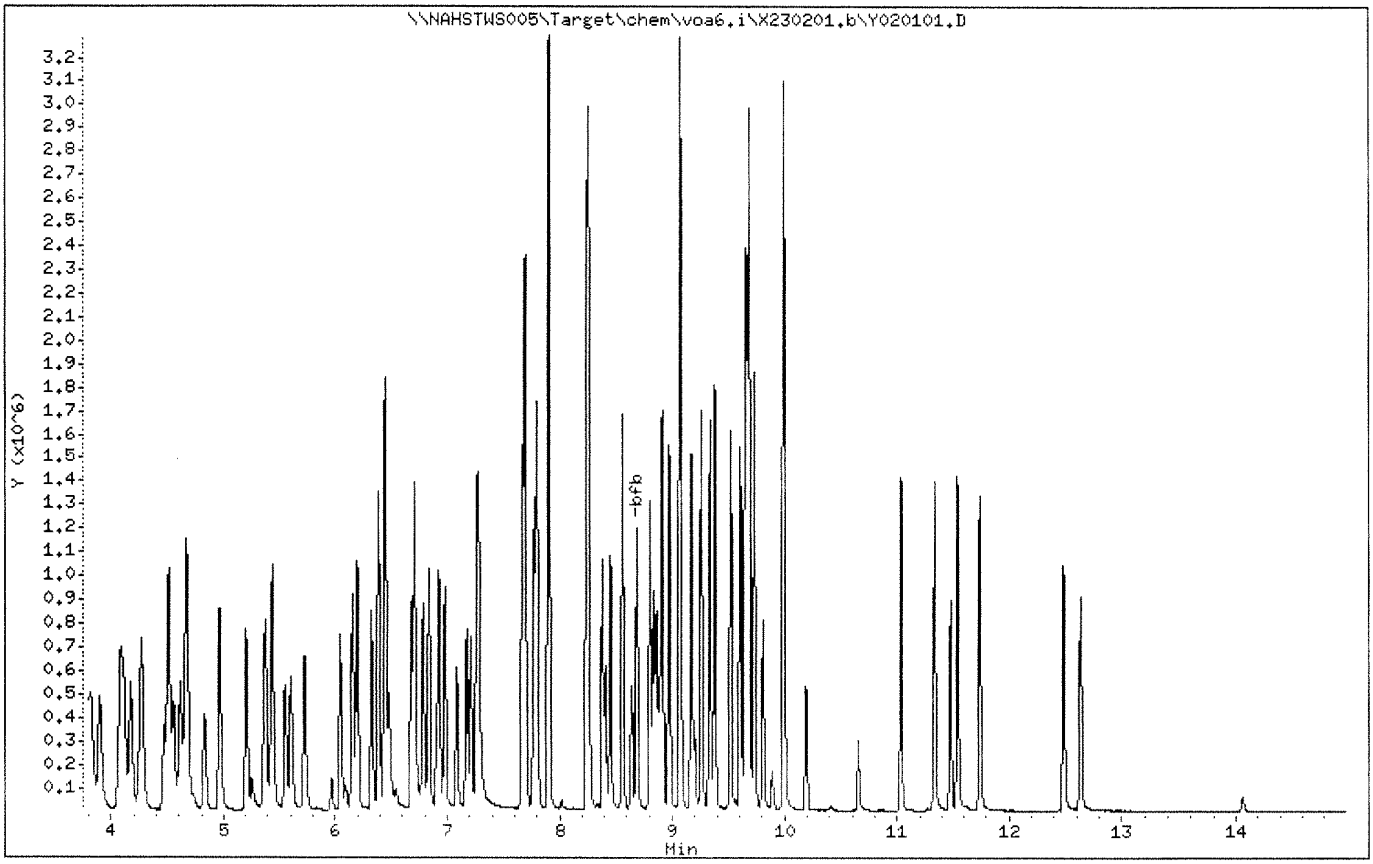
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020101.D

Date : 01-FEB-2023 21:15

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

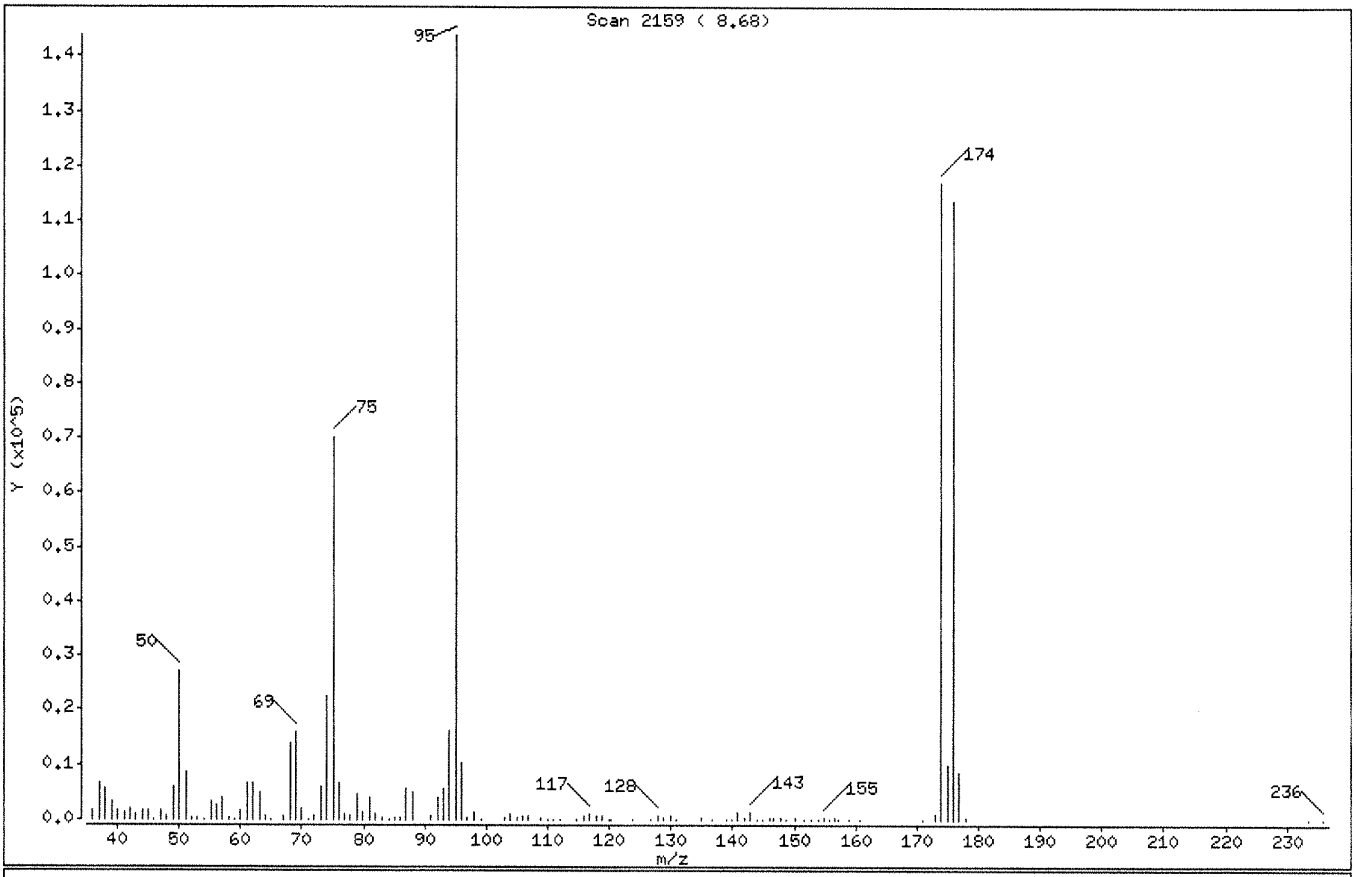
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.79
75	30.00 - 60.00% of mass 95	48.80
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.78 (0.96)
174	Greater than 50.00% of mass 95	81.33
175	5.00 - 9.00% of mass 174	6.99 (8.59)
176	95.00 - 101.00% of mass 174	79.06 (97.20)
177	5.00 - 9.00% of mass 176	6.06 (7.67)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020101.D

Date : 01-FEB-2023 21:15

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: Y020101.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 115

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1636	64.90	66	96.90	367	140.80	1197
37.00	6747	66.90	525	98.10	1282	141.80	178
38.00	5533	68.00	13723	99.00	65	142.90	1336
39.00	3148	69.00	15722	102.90	301	143.90	135
39.90	1545	70.00	2013	103.80	884	144.90	78
41.10	1486	71.10	165	104.90	405	146.00	182
42.10	1900	72.00	709	105.80	643	146.70	180
43.00	1084	73.00	6094	106.90	507	147.80	361
44.10	1655	74.00	22504	108.80	329	148.70	91
45.10	1532	75.00	70144	110.00	126	150.00	232
45.80	99	76.00	6758	110.90	124	151.70	100
47.00	1612	77.00	846	111.90	133	152.70	94
48.00	699	77.90	509	114.80	138	153.90	53
49.00	6082	78.90	4526	115.80	633	154.80	426
50.00	27016	79.90	1457	116.80	986	155.80	85
51.00	8592	80.90	3825	118.00	524	156.60	173
52.00	476	81.90	944	118.80	748	157.10	105
52.90	250	82.90	432	119.80	72	158.80	131
54.00	157	84.10	154	120.20	59	160.70	127
55.10	3183	85.00	217	123.60	113	171.00	76
56.00	2531	86.00	198	126.60	87	172.90	1118
57.00	4072	86.90	5549	127.90	582	173.90	116912
58.20	325	88.00	4878	128.80	171	174.90	10042
59.00	104	90.90	817	129.90	544	175.90	113640
59.90	1514	92.00	3906	130.70	111	176.90	8711
61.00	6774	93.00	5571	134.90	290	178.00	244
62.00	6628	94.00	16176	136.60	109	233.70	52
63.00	4949	95.00	143744	138.90	100	235.80	87
64.00	561	96.00	10221	139.90	127		

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020101.D
Inj Date : 01-FEB-2023 21:15
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020103.D Page 1
Report Date: 14-Feb-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020103.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 01-FEB-2023 21:56
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.178	(1.000)	547301	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	60811	1000.00	1215.51
140 1,3-Butadiene	54	1.160	1.160	(0.278)	179609	50.0000	47.81
25 Methacrylonitrile	41	3.818	3.818	(0.914)	211039	50.0000	54.45
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	702174	1000.00	1140.64
13 Acetonitrile	39	2.195	2.195	(0.525)	253189	500.000	508.29
14 Allyl Chloride	41	2.195	2.195	(0.525)	494968	50.0000	52.17
4 Propionitrile	54	3.645	3.645	(0.873)	308930	500.000	553.19
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	94668	50.0000	55.52
130 Ethyl Acetate	43	3.649	3.649	(0.873)	241909	50.0000	56.64
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	223513	50.0000	59.89
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	221494	50.0000	56.70
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	71946	100.000	105.92
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	523107	50.0000	53.19
156 Diisopropyl ether	45	2.997	2.997	(0.717)	715492	50.0000	50.39
182 Epichlorohydrin	57	6.093	6.093	(1.228)	82891	200.000	222.84
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1051947	50.0000	49.22
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	465948	50.0000	121.16
3 Chloromethane	50	1.074	1.074	(0.257)	251761	50.0000	50.80
5 Vinyl Chloride	62	1.141	1.141	(0.273)	228838	50.0000	47.86

6 Bromomethane	94	1.336	1.336 (0.320)	159816	50.0000	44.40
7 Chloroethane	64	1.400	1.400 (0.335)	145412	50.0000	43.69

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020103.D Page 2
Report Date: 14-Feb-2023 12:59

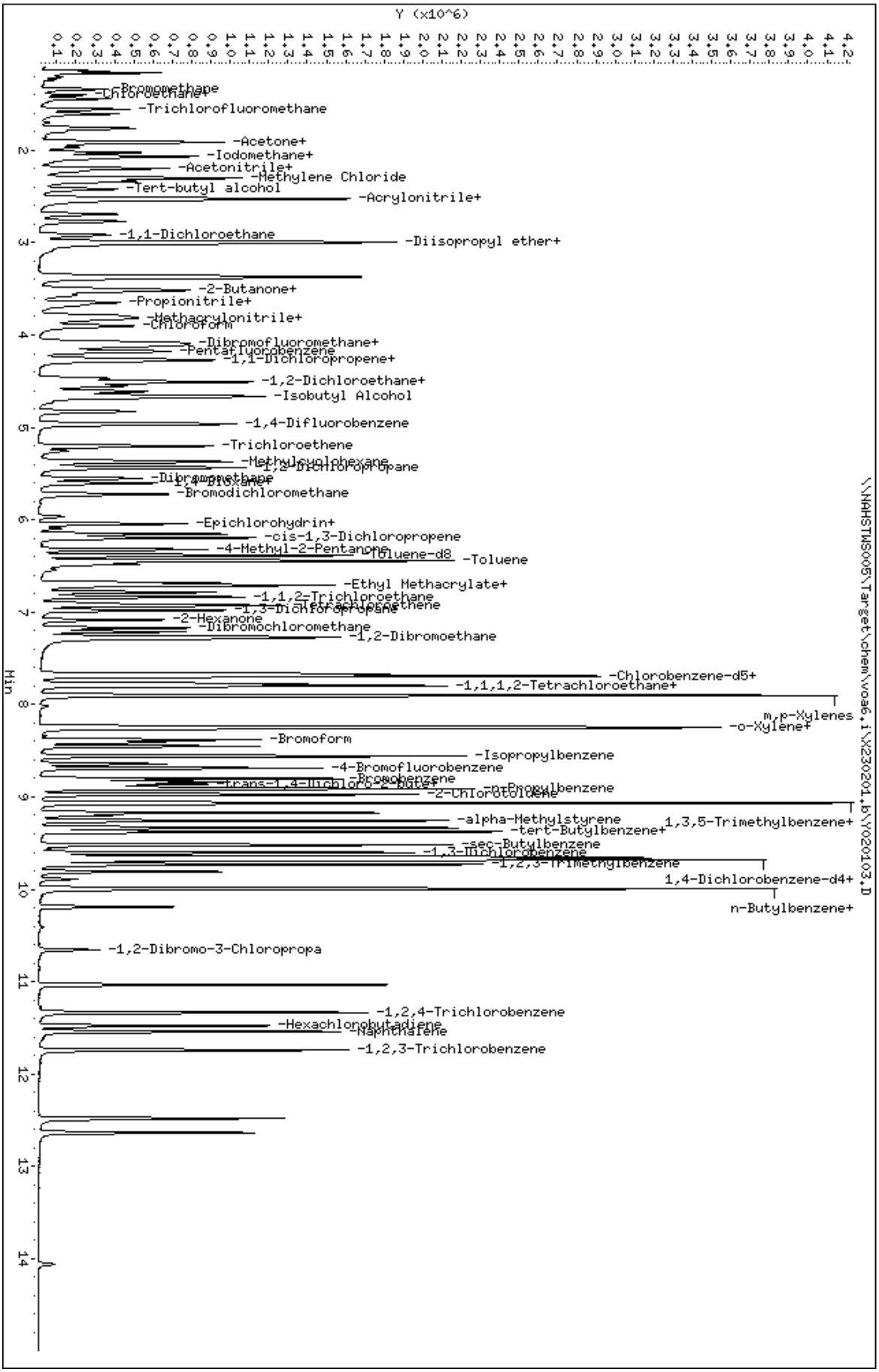
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	338753	50.0000	50.63
	9 Acrolein	56	1.441	1.441	(0.345)	30299	100.000	81.48
	10 Acetone	43	1.970	1.970	(0.472)	150075	100.000	97.72
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	188932	50.0000	45.48
	15 Iodomethane	142	2.026	2.026	(0.485)	561598	100.000	102.38
	16 Acrylonitrile	53	2.528	2.528	(0.605)	156727	100.000	111.24
	17 Methylene Chloride	84	2.300	2.300	(0.550)	268630	50.0000	47.14
	18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	713304	50.0000	52.46
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1029824	100.000	94.75
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	231746	50.0000	49.85
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	1287979	100.000	107.91
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	412591	50.0000	50.57
	24 2-Butanone	43	3.570	3.570	(0.855)	183712	100.000	112.39
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	349344	50.0000	50.43
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	278401	50.0000	49.20
	28 Chloroform	83	3.900	3.900	(0.934)	470577	50.0000	51.46
	29 Bromochloromethane	128	3.792	3.792	(0.908)	151366	50.0000	48.86
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	255158	50.0000	48.54
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	399080	50.0000	55.00
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	335865	50.0000	57.03
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	387486	50.0000	57.01
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	331958	50.0000	52.78
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	293695	50.0000	52.93
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	829482	50.0000	
	37 Benzene	78	4.508	4.508	(0.909)	1026772	50.0000	51.83
	38 Trichloroethene	130	5.205	5.205	(1.049)	300396	50.0000	53.46
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	388902	50.0000	52.31
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	290787	100.000	137.49
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	269104	50.0000	51.07
	44 Dibromomethane	93	5.550	5.550	(1.119)	181871	50.0000	50.78
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	472831	100.000	112.01
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	471778	50.0000	54.03
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	789726	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	943290	50.0000	48.33
	50 Toluene	91	6.446	6.446	(0.841)	1127211	50.0000	51.64
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	407234	50.0000	56.20
	52 2-Hexanone	43	7.083	7.083	(0.924)	325913	100.000	113.48
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	225820	50.0000	51.56
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	462742	50.0000	53.68
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	340350	50.0000	53.85
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	239743	50.0000	53.08
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	300858	50.0000	54.94
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	219117	50.0000	54.66
	59 Chlorobenzene	112	7.690	7.690	(1.003)	791961	50.0000	51.15
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	306131	50.0000	53.13
	61 Ethylbenzene	106	7.799	7.799	(1.017)	390960	50.0000	53.60
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	985695	100.000	104.84
	63 o-Xylene	106	8.241	8.241	(1.075)	484830	50.0000	52.24
	64 Styrene	104	8.256	8.256	(1.077)	856578	50.0000	55.07
	66 Bromoform	173	8.410	8.410	(1.097)	236950	50.0000	54.11
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1196460	50.0000	56.43
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	370172	50.0000	52.33

$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	377880	50.0000	51.80
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	443792	50.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	287214	50.0000	58.16(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1405409	50.0000	57.17
	74 Bromobenzene	156	8.803	8.803	(0.911)	389089	50.0000	53.43
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1049114	50.0000	57.77
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	901503	50.0000	55.88
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1049203	50.0000	57.05
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	868551	50.0000	58.42
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1078284	50.0000	56.43
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1196910	50.0000	60.51
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	1069338	50.0000	60.33
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	668538	50.0000	55.31
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	704020	50.0000	53.38
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	922466	50.0000	53.86
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	678172	50.0000	54.48
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	65242	50.0000	57.67
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	489638	50.0000	62.33
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	200626	50.0000	57.53
	92 Naphthalene	128	11.540	11.540	(1.194)	1092230	50.0000	61.11
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	457244	50.0000	60.78
M	94 1,2-Dichloroethylene (total)	96				510147	100.000	(a)
	141 Cyclohexane	56	4.121	4.121	(0.987)	304839	50.0000	55.12
	138 Freon TF	101	1.913	1.913	(0.458)	194719	50.0000	48.46
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	562238	50.0000	55.37
	146 Methyl Acetate	43	2.228	2.228	(0.533)	135760	50.0000	55.12
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	457973	1000.00	1208.47
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	248195	1000.00	1254.04

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: CCV,CCV,2,,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 01-FEB-2023 21:56
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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HEIGHT
214132
14-Feb-2023
12:59
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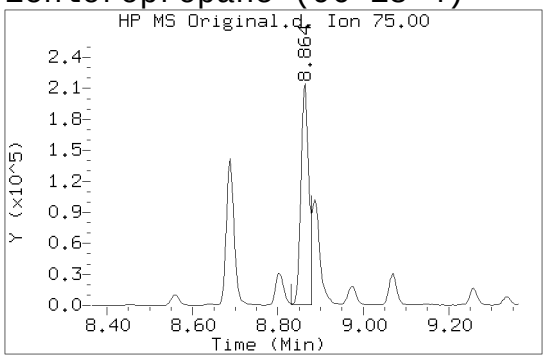

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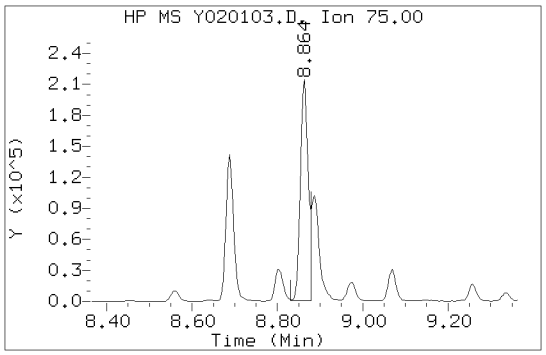

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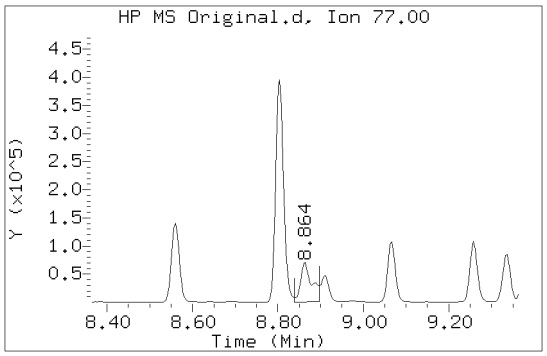

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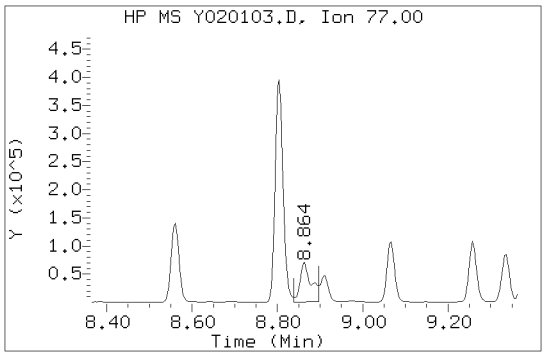

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020104.D Page 1
Report Date: 02-Feb-2023 10:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020104.D
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Inj Date : 01-FEB-2023 22:17
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 02-Feb-2023 08:02 pcabasca Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.178	(1.000)	704593	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	304107	44.9330	44.93
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	347757	48.7067	48.70
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	987135	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	886557	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1135484	51.8309	51.83
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	414574	50.6268	50.62
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	459115	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020105.D Page 1
Report Date: 14-Feb-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020105.D
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Inj Date : 01-FEB-2023 22:38
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230201;VLCSW-230201;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.178	(1.000)	567314	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	24552	473.443	473.44(a)
140 1,3-Butadiene	54	1.160	1.160	(0.278)	85481	21.9544	21.95
25 Methacrylonitrile	41	3.821	3.818	(0.915)	86116	21.4376	21.43
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	291791	457.279	457.27
13 Acetonitrile	39	2.194	2.195	(0.525)	108856	210.828	210.82
14 Allyl Chloride	41	2.194	2.195	(0.525)	208813	21.2342	21.23
4 Propionitrile	54	3.649	3.645	(0.873)	120974	208.985	208.98(a)
72 trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	36526	20.9908	20.99
130 Ethyl Acetate	43	3.653	3.649	(0.874)	101890	23.0164	23.01
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	85997	22.2315	22.23
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	93039	22.9568	22.95
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	30556	41.5308	41.53
145 alpha-Methylstyrene	118	9.261	9.257	(0.958)	220896	22.3119	22.31
156 Diisopropyl ether	45	2.993	2.997	(0.716)	295016	20.0464	20.04
182 Epichlorohydrin	57	6.093	6.093	(1.228)	30477	80.5840	80.58
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	450589	20.9413	20.94
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	219365	55.2443	55.24
3 Chloromethane	50	1.074	1.074	(0.257)	116239	23.8561	23.85
5 Vinyl Chloride	62	1.141	1.141	(0.273)	104853	21.1576	21.15

6 Bromomethane	94	1.340	1.336 (0.321)	73545	20.6925	20.69
7 Chloroethane	64	1.400	1.400 (0.335)	65891	19.1022	19.10

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020105.D Page 2
Report Date: 14-Feb-2023 12:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	157392	22.6949	22.69
	9 Acrolein	56	1.441	1.441	(0.345)	15034	40.4772	40.47
	10 Acetone	43	1.970	1.970	(0.472)	67766	42.5514	42.55
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	86331	20.0506	20.05
	15 Iodomethane	142	2.026	2.026	(0.485)	219262	41.6273	41.62
	16 Acrylonitrile	53	2.536	2.528	(0.607)	59197	40.5373	40.53
	17 Methylene Chloride	84	2.299	2.300	(0.550)	122947	20.8174	20.81
	18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	294723	20.9123	20.91
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	470606	41.7753	41.77
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	106986	22.2017	22.20
	21 Vinyl Acetate	43	2.997	2.993	(0.717)	505777	40.8821	40.88
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	183274	21.6710	21.67
	24 2-Butanone	43	3.581	3.570	(0.857)	71096	43.8580	43.85
	26 2,2-Dichloropropane	77	3.503	3.507	(0.838)	155986	21.7234	21.72
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	122448	20.8798	20.87
	28 Chloroform	83	3.904	3.900	(0.935)	205532	21.6833	21.68
	29 Bromochloromethane	128	3.788	3.792	(0.907)	63880	19.8947	19.89
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	260587	47.8303	47.83
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	180521	24.0035	24.00
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	148751	24.3452	24.34
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	163718	23.2176	23.21
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	150978	23.1395	23.13
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	310697	54.0163	54.01
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	860635	50.0000	
	37 Benzene	78	4.511	4.508	(0.909)	448245	21.8105	21.81
	38 Trichloroethene	130	5.205	5.205	(1.049)	133465	22.8962	22.89
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	163646	21.2171	21.21
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.219)	118412	53.9637	53.96
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	114306	20.9088	20.90
	44 Dibromomethane	93	5.553	5.550	(1.119)	78146	21.0305	21.03
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	190367	44.1848	44.18
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	192689	21.2723	21.27
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	806066	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	969785	48.6877	48.68
	50 Toluene	91	6.445	6.446	(0.841)	489214	21.9576	21.95
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	163507	21.7509	21.75
	52 2-Hexanone	43	7.086	7.083	(0.924)	138571	47.2727	47.27
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	93658	20.9538	20.95
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	193634	22.0092	22.00
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	139308	21.5945	21.59
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	107329	23.2828	23.28
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	124272	22.2371	22.23
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	103009	24.7667	24.76
	59 Chlorobenzene	112	7.694	7.690	(1.003)	340932	21.5739	21.57
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	128027	21.7694	21.76
	61 Ethylbenzene	106	7.799	7.799	(1.017)	170430	22.8948	22.89
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	427966	44.5973	44.59
	63 o-Xylene	106	8.241	8.241	(1.075)	210918	22.2689	22.26
	64 Styrene	104	8.260	8.256	(1.077)	360928	22.7353	22.73
	66 Bromoform	173	8.410	8.410	(1.097)	93220	20.8583	20.85
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	525451	24.2830	24.28
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	150990	21.2014	21.20

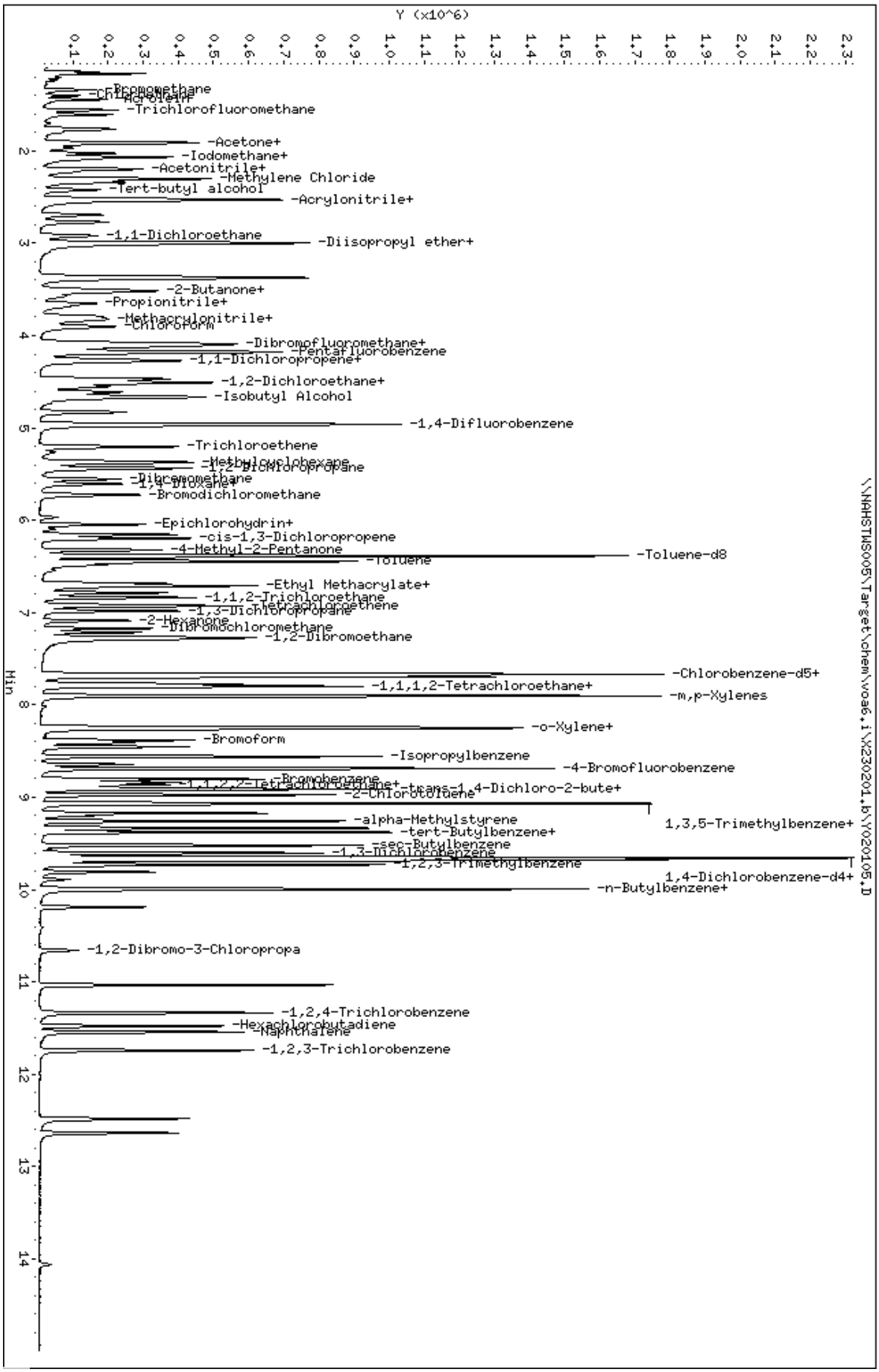
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	378087	50.7814	50.78
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	446822	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020105.D Page 3
Report Date: 14-Feb-2023 12:59

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	114153	22.9599	22.95(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	609501	24.6263	24.62
	74 Bromobenzene	156	8.807	8.803	(0.912)	162446	22.1594	22.15
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	450380	24.6330	24.63
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	388438	23.9168	23.91
	77 4-Chlorotoluene	91	9.069	9.070	(0.939)	446137	24.0963	24.09
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	375372	25.0811	25.08
	79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	459489	23.8844	23.88
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	523638	26.2960	26.29
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	463291	25.9632	25.96
	83 1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	282282	23.1998	23.19
	84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	298214	22.4602	22.46
	87 n-Butylbenzene	91	9.995	9.992	(1.035)	401435	24.2896	24.28
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	284986	22.7422	22.74
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	25179	22.1657	22.16
	90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	200324	25.3310	25.33
	91 Hexachlorobutadiene	225	11.476	11.480	(1.188)	88748	25.4451	25.44
	92 Naphthalene	128	11.544	11.540	(1.195)	422951	23.5061	23.50
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	182830	24.1390	24.13
M	94 1,2-Dichloroethylene (total)	96				229434	43.0816	43.08
M	95 Xylenes (total)	106				638884	66.8662	66.86
	141 Cyclohexane	56	4.117	4.121	(0.986)	143585	25.7369	25.73
	138 Freon TF	101	1.913	1.913	(0.458)	89021	21.3765	21.37
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	248566	23.5946	23.59
	146 Methyl Acetate	43	2.228	2.228	(0.533)	55460	21.7253	21.72
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	192623	490.351	490.35
	149 Isopropyl Alcohol	45	2.089	2.090	(0.500)	101537	494.933	494.93

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Date : 01-FEB-2023 22:38
Client ID: VLCSW-230201
Sample Info: VLCSW-230201;VLCSW-230201;3;;LCS
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6.i
Operator: PC
Column diameter: 0.18
Page 1
-Bromomethane
-Chloroethane
-Acrolein
-Trichlorofluoromethane
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-1,1-Dichloroethane
-Diisopropyl ether+
-2-Butanone+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol
-1,4-Difluorobenzene
-Trichloroethene
-Methylcyclohexane
-1,2-Dichloropropane
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-Epichlorohydrin+
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-Tetrachloroethene
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-alpha-Methylstyrene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020105.D
Inj Date : 01-FEB-2023 22:38
InstruID : voa6.i
LabSampID : VLCSW-230201

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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14-Feb-2023
12:59
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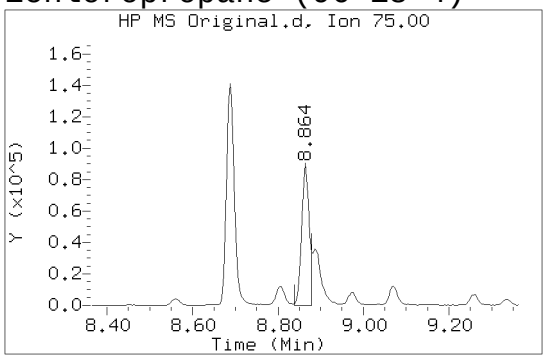

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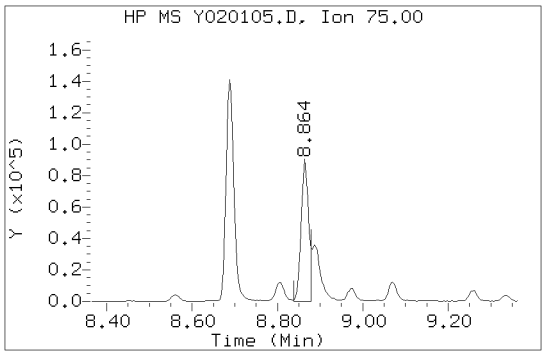

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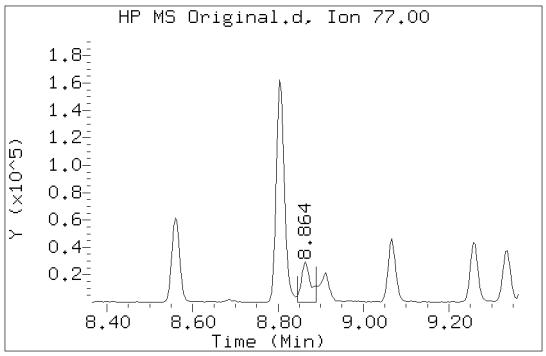

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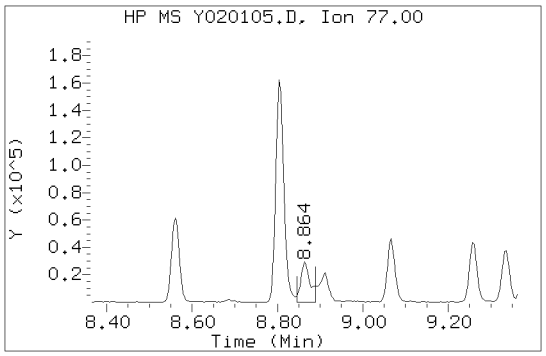

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Report Date: 14-Feb-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020107.D
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Inj Date : 01-FEB-2023 23:21
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230201;VBLKW-230201;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 35 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

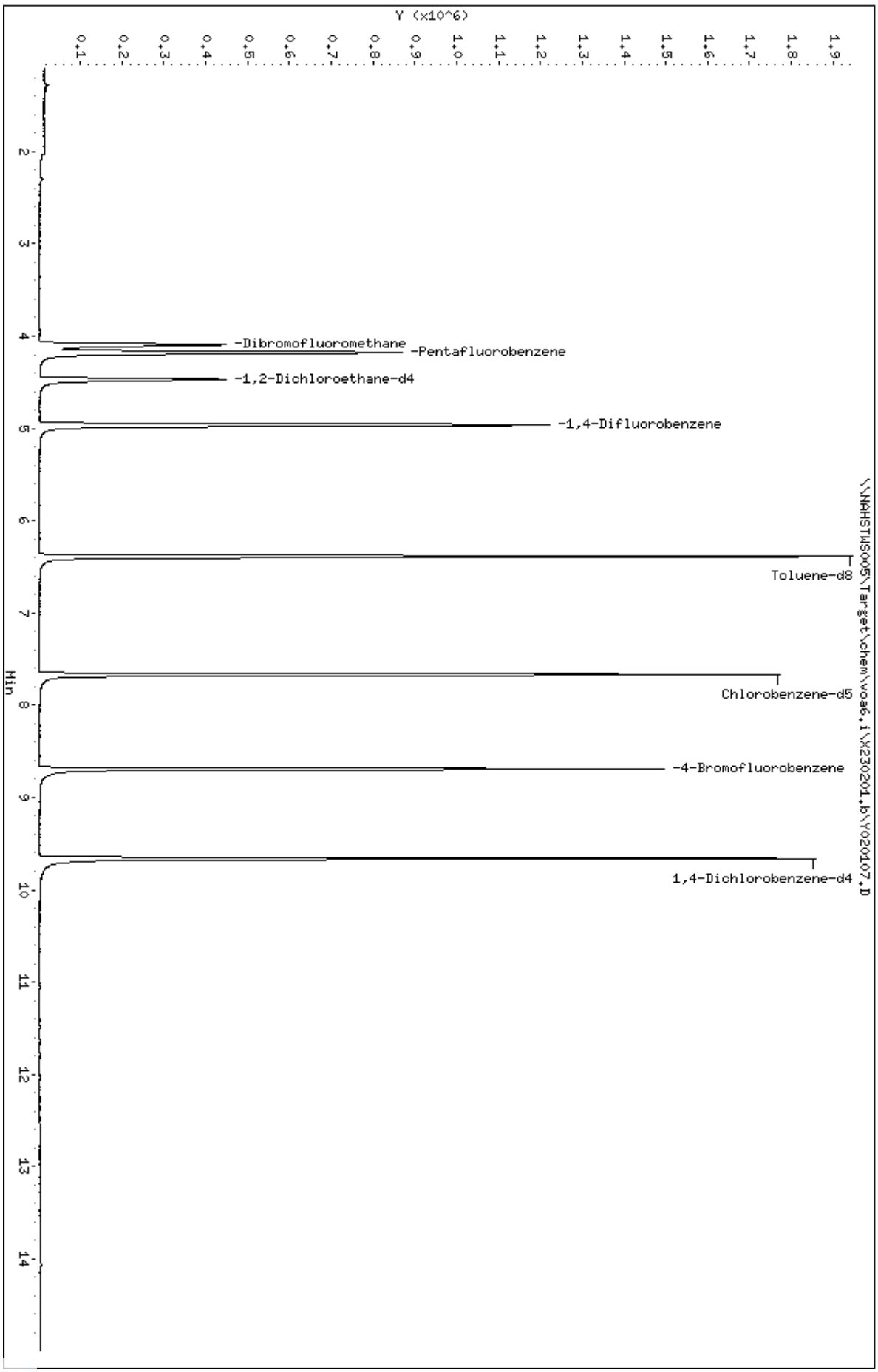
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.178	4.178	(1.000)	723030	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	318254	45.8275	45.82
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	361431	49.3275	49.32
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	1018124	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	911181	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1161337	51.5785	51.57
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	426886	50.7214	50.72
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	473203	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6,i\X230201,b\Y020107.D
Date : 01-FEB-2023 23:21
Client ID: VBLKW-230201
Sample Info: VBLKW-230201;VBLKW-230201;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18



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Inj Date : 01-FEB-2023 23:21
InstruID : voa6.i
LabSampID : VBLKW-230201

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020114.D Page 1
Report Date: 14-Feb-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020114.D
Lab Smp Id: HS23011576-06MS Client Smp ID: HS23011576-06MS
Inj Date : 02-FEB-2023 01:48
Operator : PC Inst ID: voa6.i
Smp Info : HS23011576-06MS;HS23011576-06MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 42 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.178	(1.000)	699858	50.0000	
135	1,4-Dioxane	88	5.602	5.598	(1.341)	24133	377.229	377.22(a)
140	1,3-Butadiene	54	1.164	1.160	(0.279)	71499	14.8855	14.88
25	Methacrylonitrile	41	3.818	3.818	(0.914)	84505	17.0525	17.05
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	281082	357.072	357.07
13	Acetonitrile	39	2.198	2.195	(0.526)	122670	192.587	192.58
14	Allyl Chloride	41	2.198	2.195	(0.526)	223799	18.4481	18.44
4	Propionitrile	54	3.649	3.645	(0.873)	125255	175.401	175.40(a)
72	trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	35541	18.8185	18.81
130	Ethyl Acetate	43	3.653	3.649	(0.874)	87471	16.0171	16.01
40	Methyl Methacrylate	41	5.606	5.602	(1.342)	85242	17.8629	17.86
49	Ethyl Methacrylate	69	6.708	6.708	(1.351)	81307	17.6531	17.65
142	Tetrahydrofuran	42	3.848	3.840	(0.921)	31076	33.6823	33.68
145	alpha-Methylstyrene	118	9.261	9.257	(0.958)	105423	9.77688	9.77
156	Diisopropyl ether	45	2.997	2.997	(0.717)	328300	18.0832	18.08
182	Epichlorohydrin	57	6.100	6.093	(1.229)	7303	18.9637	18.96
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	481134	20.5308	20.53
2	Dichlorodifluoromethane	85	0.972	0.969	(0.233)	53492	11.2351	11.23
3	Chloromethane	50	1.077	1.074	(0.258)	88465	15.5647	15.56
5	Vinyl Chloride	62	1.141	1.141	(0.273)	92538	15.1363	15.13

6 Bromomethane	94	1.340	1.336 (0.321)	70634	16.5005	16.50
7 Chloroethane	64	1.400	1.400 (0.335)	62036	14.5786	14.57

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020114.D Page 2
Report Date: 14-Feb-2023 12:59

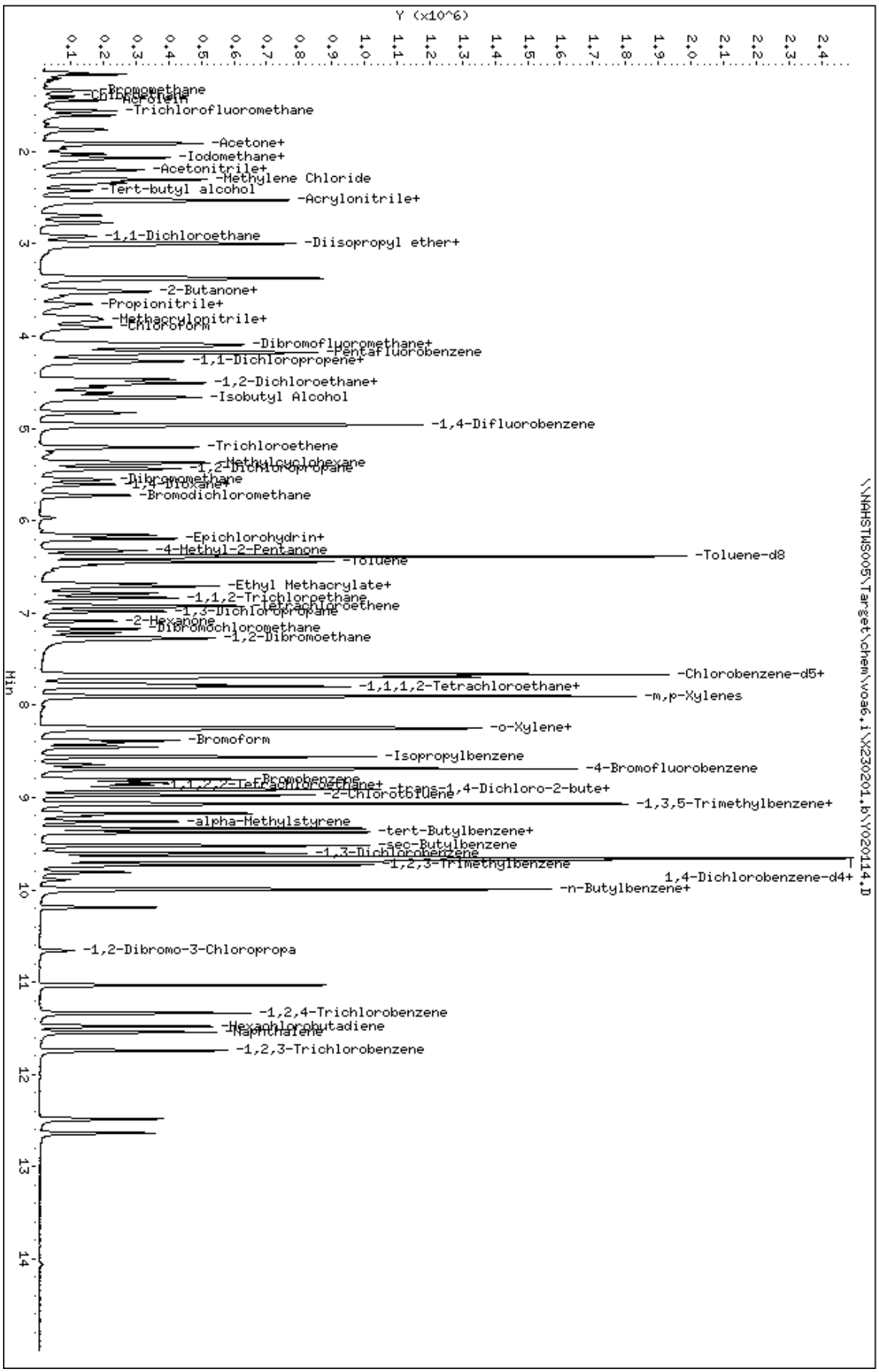
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	161933	18.9276	18.92
	9 Acrolein	56	1.441	1.441	(0.345)	16408	36.1354	36.13
	10 Acetone	43	1.969	1.970	(0.472)	49116	24.9857	24.98
	11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	91616	17.2482	17.24
	15 Iodomethane	142	2.026	2.026	(0.485)	198431	31.5396	31.53
	16 Acrylonitrile	53	2.532	2.528	(0.606)	67987	37.7394	37.73
	17 Methylene Chloride	84	2.303	2.300	(0.551)	114936	15.7753	15.77
	18 Methyl tert-butyl ether	73	2.532	2.528	(0.606)	322955	18.5756	18.57
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	494596	35.5899	35.58
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	107305	18.0507	18.05
	21 Vinyl Acetate	43	2.997	2.993	(0.717)	491869	32.2283	32.22
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	181545	17.4011	17.40
	24 2-Butanone	43	3.578	3.570	(0.856)	62875	32.2974	32.29
	26 2,2-Dichloropropane	77	3.506	3.507	(0.839)	150684	17.0107	17.01
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	119612	16.5334	16.53
	28 Chloroform	83	3.900	3.900	(0.934)	209604	17.9250	17.92
	29 Bromochloromethane	128	3.795	3.792	(0.908)	62289	15.7253	15.72
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	293810	43.7007	43.70
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	188623	20.3309	20.33
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	161357	23.2375	23.23
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	161909	20.2040	20.20
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	161940	21.8394	21.83
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	341522	48.1601	48.16
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	978074	50.0000	
	37 Benzene	78	4.507	4.508	(0.908)	450158	19.2736	19.27
	38 Trichloroethene	130	5.205	5.205	(1.048)	162928	24.5945	24.59
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	159928	18.2454	18.24
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	110702	17.8182	17.81
	44 Dibromomethane	93	5.549	5.550	(1.118)	73824	17.4818	17.48
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	187459	40.0883	40.08
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	183615	17.8366	17.83
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	874865	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1119833	51.7997	51.79
	50 Toluene	91	6.445	6.446	(0.841)	498419	20.6116	20.61
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	155645	18.2190	18.21
	52 2-Hexanone	43	7.086	7.083	(0.924)	124114	39.0111	39.01
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	91275	18.8148	18.81
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	185556	19.4324	19.43
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	134616	19.2262	19.22
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	117349	23.4545	23.45
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	120223	19.8209	19.82
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	115209	24.3740	24.37
	59 Chlorobenzene	112	7.694	7.690	(1.003)	340876	19.8740	19.87
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	124495	19.5041	19.50
	61 Ethylbenzene	106	7.799	7.799	(1.017)	177930	22.0227	22.02
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	446204	42.8413	42.84
	63 o-Xylene	106	8.241	8.241	(1.075)	210709	20.4974	20.49
	64 Styrene	104	8.260	8.256	(1.077)	344141	19.9731	19.97
	66 Bromoform	173	8.410	8.410	(1.097)	89863	18.5260	18.52
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	555888	23.6694	23.66
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	144851	18.6748	18.67
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	421577	52.1681	52.16

*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	486651	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	113176	20.9004	20.90(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	641518	23.7986	23.79
	74 Bromobenzene	156	8.803	8.803	(0.911)	160914	20.1539	20.15
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	468014	23.5025	23.50
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	395868	22.3794	22.37
	77 4-Chlorotoluene	91	9.069	9.070	(0.939)	448512	22.2419	22.24
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	402722	24.7063	24.70
	79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	465744	22.2281	22.22
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	564308	26.0191	26.01
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	484367	24.9227	24.92
	83 1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	279977	21.1271	21.12
	84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	292036	20.1948	20.19
	87 n-Butylbenzene	91	9.995	9.992	(1.035)	418259	23.3133	23.31
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	279077	20.4480	20.44
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	23751	19.2097	19.20
	90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	189156	21.9612	21.96
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	89720	23.6249	23.62
	92 Naphthalene	128	11.543	11.540	(1.195)	394297	20.1202	20.12
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	174133	21.1091	21.10
M	94 1,2-Dichloroethylene (total)	96				226917	34.5841	34.58
M	95 Xylenes (total)	106				656913	63.3387	63.33
	141 Cyclohexane	56	4.117	4.121	(0.986)	172319	25.0719	25.07
	138 Freon TF	101	1.913	1.913	(0.458)	102142	19.8821	19.88
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	271251	22.6563	22.65
	146 Methyl Acetate	43	2.232	2.228	(0.534)	50771	16.1219	16.12
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	183187	378.014	378.01
	149 Isopropyl Alcohol	45	2.089	2.090	(0.500)	96543	381.467	381.46

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Page 1

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Inj Date : 02-FEB-2023 01:48
InstruID : voa6.i
LabSampID : HS23011576-06MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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83465
14-Feb-2023
12:59
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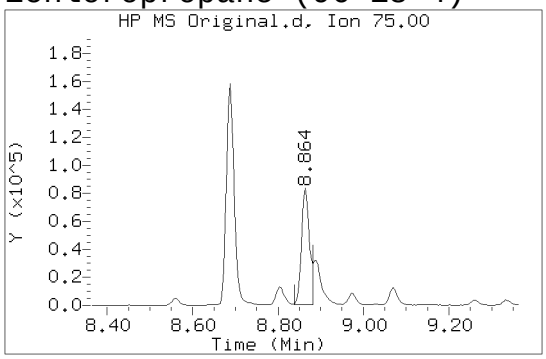

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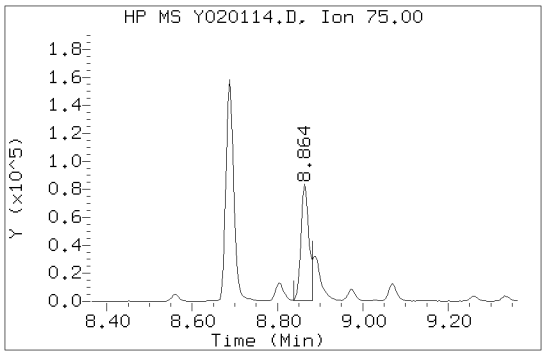

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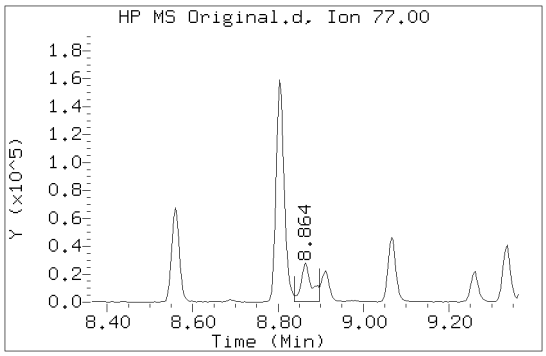

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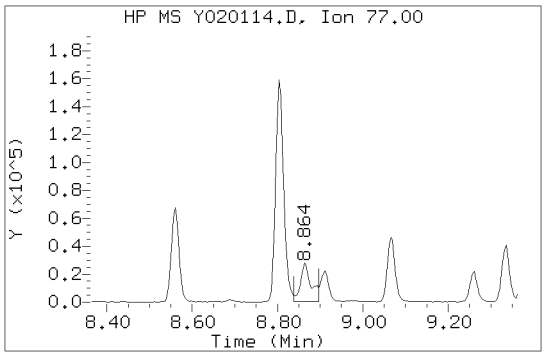

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Report Date: 14-Feb-2023 12:59

ALS Laboratory Group

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Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
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Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 42 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.178	(1.000)	710546	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	23536	362.364	362.36(a)
140 1,3-Butadiene	54	1.164	1.160	(0.279)	67646	13.8715	13.87
25 Methacrylonitrile	41	3.818	3.818	(0.914)	85787	17.0508	17.05
12 Isobutyl Alcohol	43	4.669	4.672	(1.118)	278043	347.898	347.89
13 Acetonitrile	39	2.195	2.195	(0.525)	119799	185.251	185.25
14 Allyl Chloride	41	2.195	2.195	(0.525)	222239	18.0439	18.04
4 Propionitrile	54	3.649	3.645	(0.873)	132165	182.293	182.29(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	35188	18.0857	18.08
130 Ethyl Acetate	43	3.653	3.649	(0.874)	89109	16.0716	16.07
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	86587	17.8718	17.87
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	85921	18.2160	18.21
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	29769	31.6015	31.60
145 alpha-Methylstyrene	118	9.261	9.257	(0.958)	100592	9.17188	9.17
156 Diisopropyl ether	45	2.997	2.997	(0.717)	329181	17.8590	17.85
182 Epichlorohydrin	57	6.101	6.093	(1.230)	6927	17.7486	17.74
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	475926	19.9668	19.96
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	53149	11.0036	11.00
3 Chloromethane	50	1.074	1.074	(0.257)	87318	15.1933	15.19
5 Vinyl Chloride	62	1.141	1.141	(0.273)	90097	14.5153	14.51

6 Bromomethane	94	1.336	1.336 (0.320)	65936	15.3134	15.31
7 Chloroethane	64	1.400	1.400 (0.335)	62631	14.4970	14.49

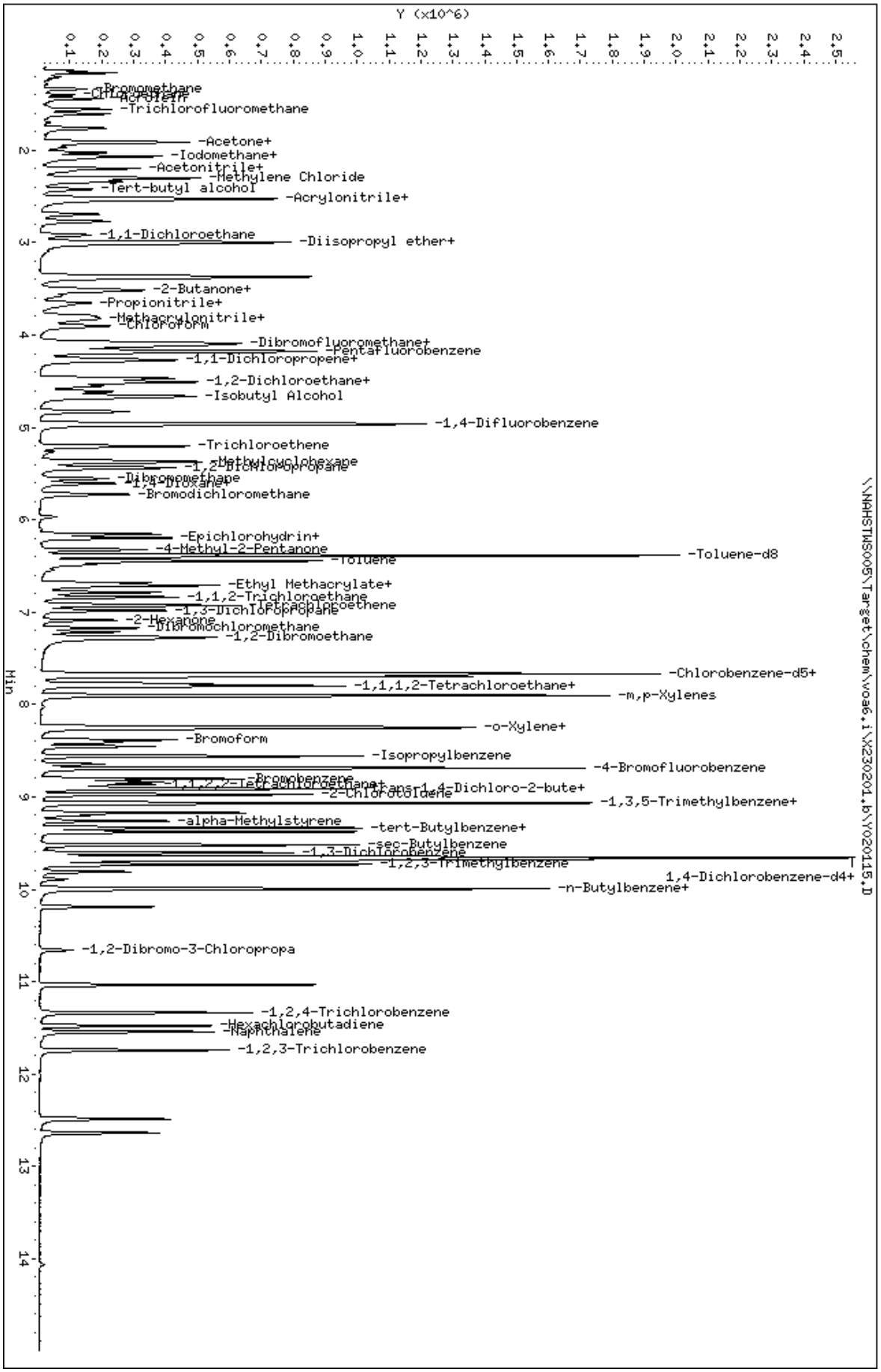
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	156195	17.9822	17.98
	9 Acrolein	56	1.441	1.441	(0.345)	16800	36.4182	36.41
	10 Acetone	43	1.970	1.970	(0.472)	50885	25.4970	25.49
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	88055	16.3285	16.32
	15 Iodomethane	142	2.026	2.026	(0.485)	213781	33.2443	33.24
	16 Acrylonitrile	53	2.536	2.528	(0.607)	67888	37.1176	37.11
	17 Methylene Chloride	84	2.300	2.300	(0.550)	112709	15.2370	15.23
	18 Methyl tert-butyl ether	73	2.532	2.528	(0.606)	325416	18.4356	18.43
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	481347	34.1155	34.11
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	105646	17.5043	17.50
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	491344	31.7096	31.70
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	179757	16.9705	16.97
	24 2-Butanone	43	3.578	3.570	(0.856)	66343	33.4474	33.44
	26 2,2-Dichloropropane	77	3.503	3.507	(0.839)	148479	16.5097	16.50
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	118331	16.1103	16.11
	28 Chloroform	83	3.900	3.900	(0.934)	207539	17.4814	17.48
	29 Bromochloromethane	128	3.792	3.792	(0.908)	62347	15.5032	15.50
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	302331	44.2940	44.29
	31 1,1,1-Trichloroethane	97	4.076	4.080	(0.976)	186341	19.7828	19.78
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	155721	21.8982	21.89
	33 1,2-Dichloroethane	62	4.553	4.552	(0.918)	165734	20.1948	20.19
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	161151	21.2217	21.22
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	351756	48.8532	48.85
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	1001641	50.0000	
	37 Benzene	78	4.508	4.508	(0.909)	442833	18.5139	18.51
	38 Trichloroethene	130	5.205	5.205	(1.049)	157548	23.2228	23.22
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	161152	17.9524	17.95
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	110558	17.3763	17.37
	44 Dibromomethane	93	5.550	5.550	(1.119)	74215	17.1609	17.16
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	194247	40.3227	40.32
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	186135	17.6560	17.65
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	901274	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1148767	51.5810	51.58
	50 Toluene	91	6.446	6.446	(0.841)	493903	19.8263	19.82
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	158569	18.1245	18.12
	52 2-Hexanone	43	7.087	7.083	(0.924)	127390	38.8676	38.86
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	91742	18.3569	18.35
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	188182	19.1300	19.12
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	133778	18.5467	18.54
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	114319	22.1794	22.17
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	119545	19.1316	19.13
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	112972	23.3384	23.33
	59 Chlorobenzene	112	7.694	7.690	(1.003)	331524	18.7624	18.76
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	124532	18.9382	18.93
	61 Ethylbenzene	106	7.799	7.799	(1.017)	172727	20.7522	20.75
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	437972	40.8187	40.81
	63 o-Xylene	106	8.241	8.241	(1.075)	209549	19.7872	19.78
	64 Styrene	104	8.260	8.256	(1.077)	342944	19.3205	19.32
	66 Bromoform	173	8.410	8.410	(1.097)	89530	17.9165	17.91
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	544985	22.5252	22.52
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	146804	18.6081	18.60
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	437166	52.5116	52.51

*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	494980	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	109054	19.8003	19.80(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	632376	23.0647	23.06
	74 Bromobenzene	156	8.803	8.803	(0.911)	157903	19.4440	19.44
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	461087	22.7650	22.76
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	388283	21.5813	21.58
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	443078	21.6027	21.60
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	397969	24.0039	24.00
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	459496	21.5609	21.56
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	552919	25.0650	25.06
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	479855	24.2751	24.27
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	276726	20.5304	20.53
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	289446	19.6789	19.67
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	416197	22.8465	22.84
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	275739	19.8634	19.86
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	23671	18.8247	18.82
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	190156	21.7058	21.70
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	89834	23.2581	23.25
	92 Naphthalene	128	11.544	11.540	(1.195)	401438	20.1399	20.13
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	173754	20.7087	20.70
M	94 1,2-Dichloroethylene (total)	96				223977	33.6146	33.61
M	95 Xylenes (total)	106				647521	60.6060	60.60
	141 Cyclohexane	56	4.121	4.121	(0.987)	166981	23.9873	23.98
	138 Freon TF	101	1.913	1.913	(0.458)	100127	19.1967	19.19
	147 Methylcyclohexane	55	5.381	5.377	(1.085)	271621	22.1534	22.15
	146 Methyl Acetate	43	2.228	2.228	(0.533)	49784	15.5707	15.57
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	183423	372.807	372.80
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	99144	385.851	385.85

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 02-FEB-2023 02:09
InstruID : voa6.i
LabSampID : HS23011576-06MSD

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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14-Feb-2023
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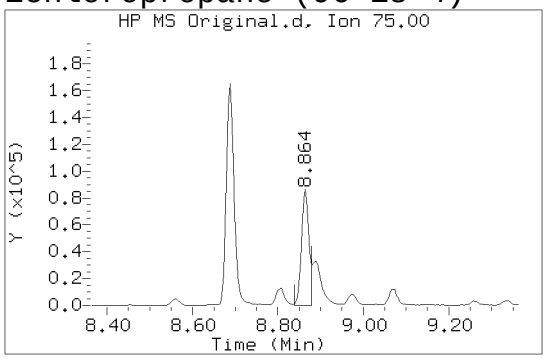

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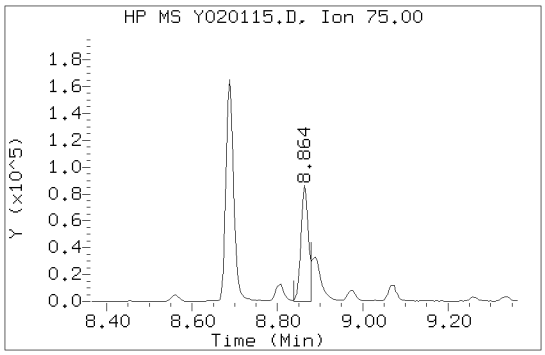

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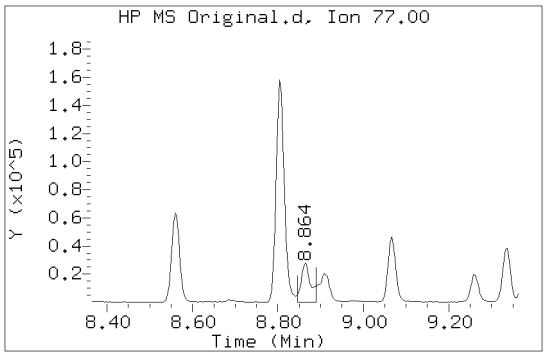

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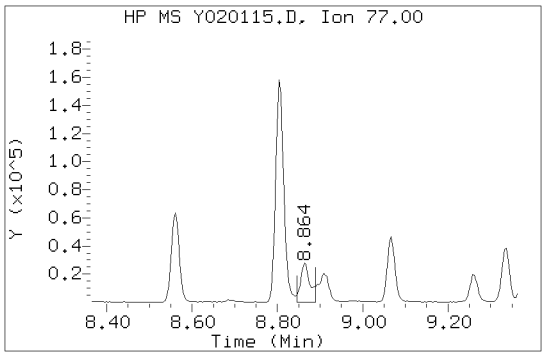
AREA
44555
HEIGHT
27501
14-Feb-2023
12:59
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020127.D Page 1
Report Date: 14-Feb-2023 13:00

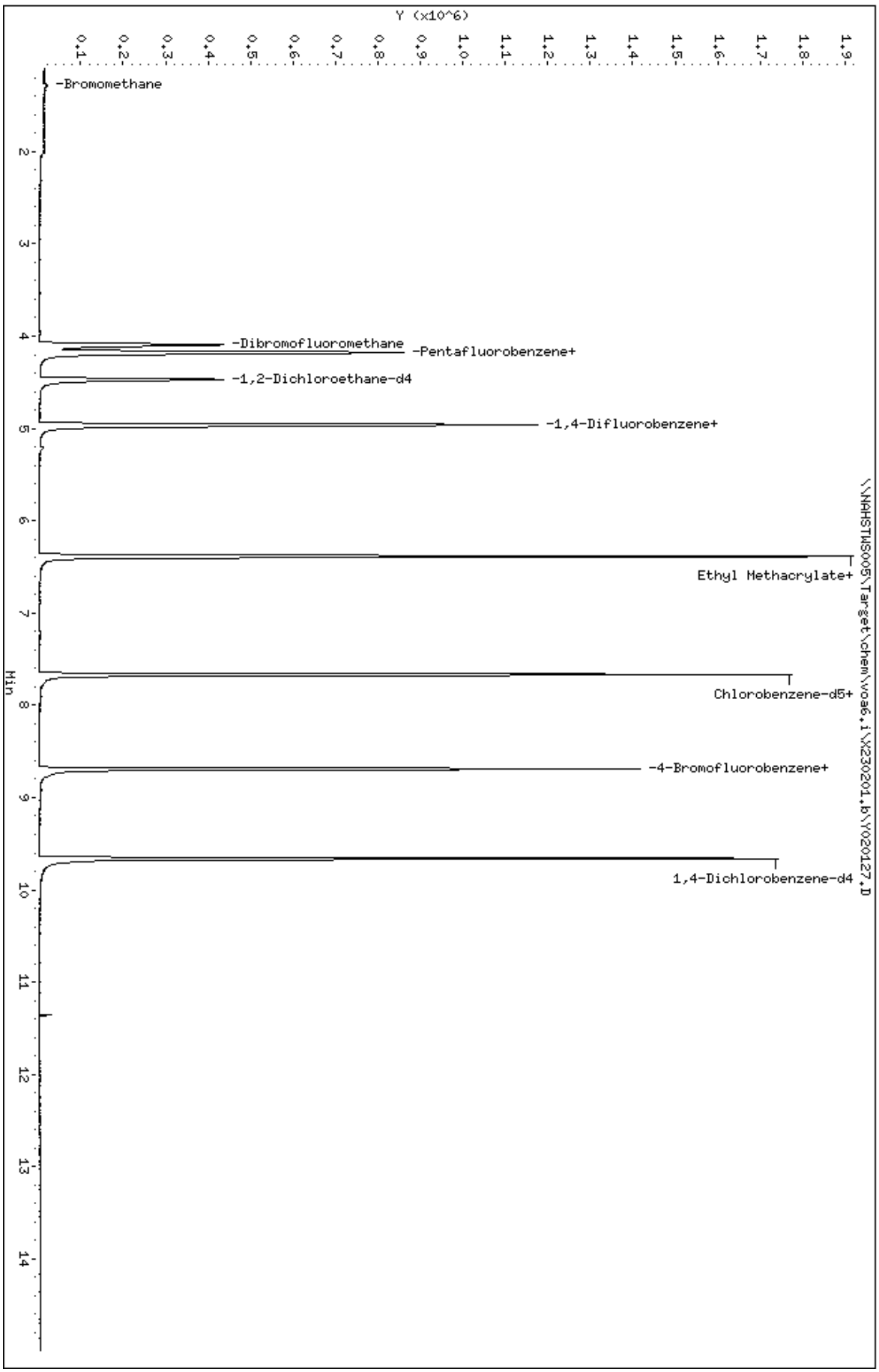
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020127.D
Lab Smp Id: HS23011294-06 Client Smp ID: HS23011294-06
Inj Date : 02-FEB-2023 06:22
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-06;HS23011294-06;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.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	4.177	4.178	(1.000)	708680	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	310778	45.6565	45.65
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	349000	48.5995	48.59
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	986569	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	873744	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1136355	52.6314	52.63
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	414077	51.3068	51.30
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	449732	50.0000	



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Date : 02-FEB-2023 06:22
Client ID: HS230111294-06
Sample Info: HS230111294-06;HS230111294-06;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020127.D
Inj Date : 02-FEB-2023 06:22
InstruID : voa6.i
LabSampID : HS23011294-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020128.D Page 1
Report Date: 14-Feb-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020128.D
Lab Smp Id: HS23011294-07 Client Smp ID: HS23011294-07
Inj Date : 02-FEB-2023 06:43
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-07;HS23011294-07;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

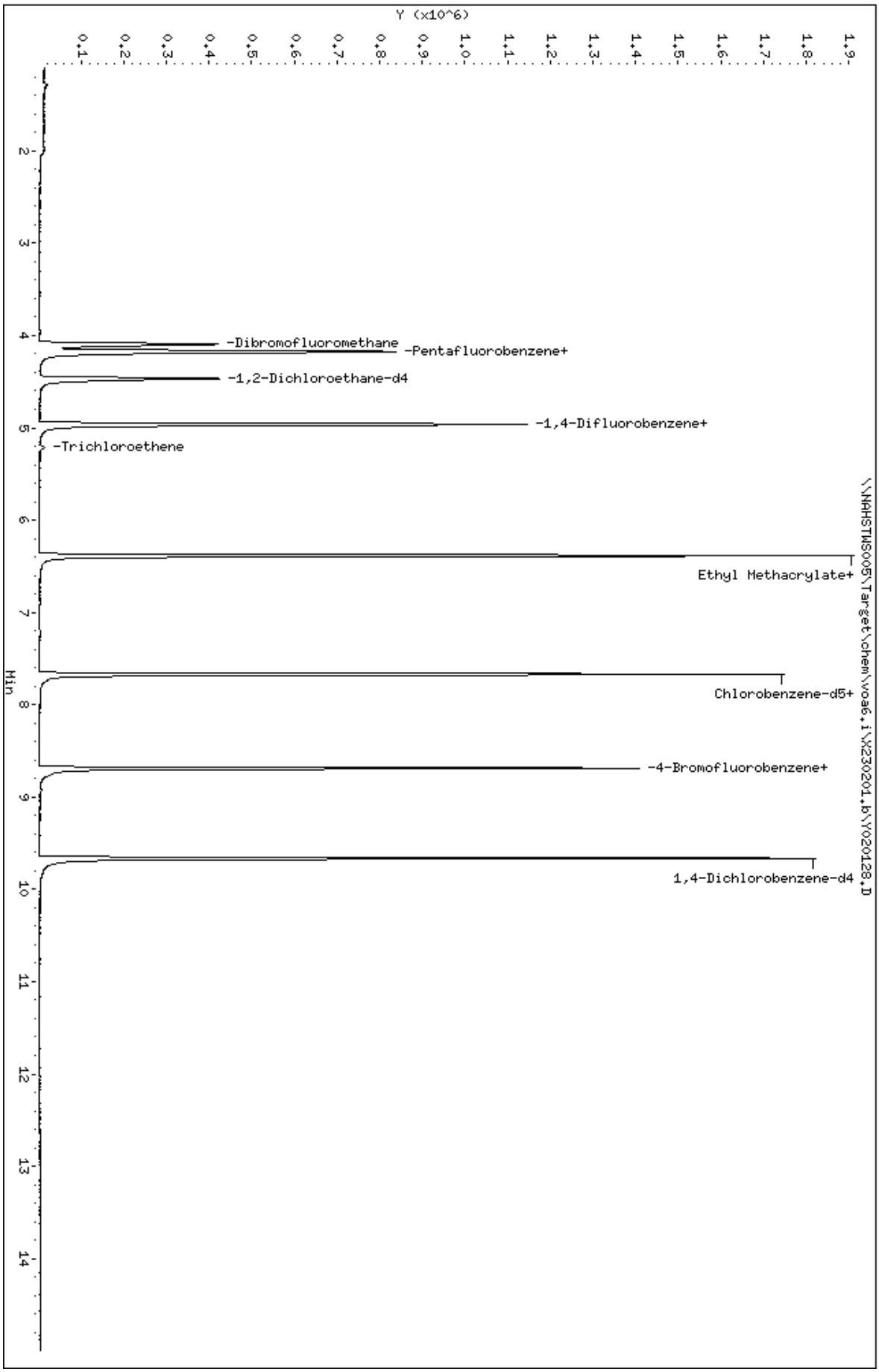
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.177	4.178	(1.000)	698785	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	306210	45.6223	45.62
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	343035	48.4461	48.44
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	972217	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	865885	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1122277	52.4511	52.45
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	410371	51.3091	51.30
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	455996	50.0000	
38 Trichloroethene	130	5.212	5.205	(1.050)	4244	0.64451	0.64(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



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Date : 02-FEB-2023 06:43
Client ID: HS23011294-07
Sample Info: HS23011294-07;HS23011294-07;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020128.D Page 2

Date : 02-FEB-2023 06:43

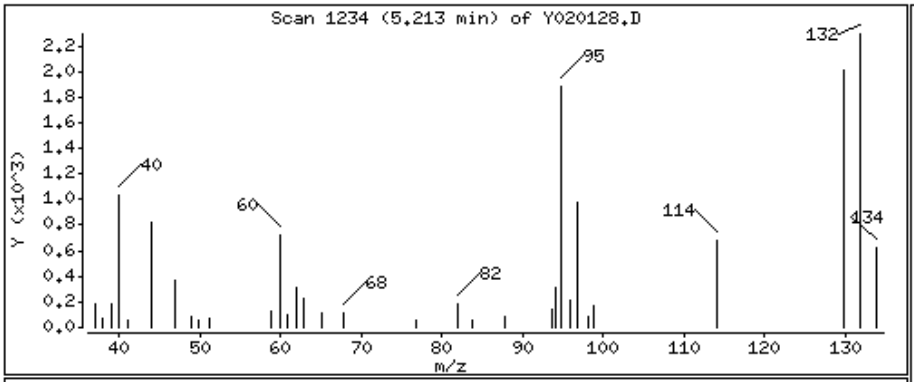
Client ID: HS23011294-07 Instrument: voa6.i

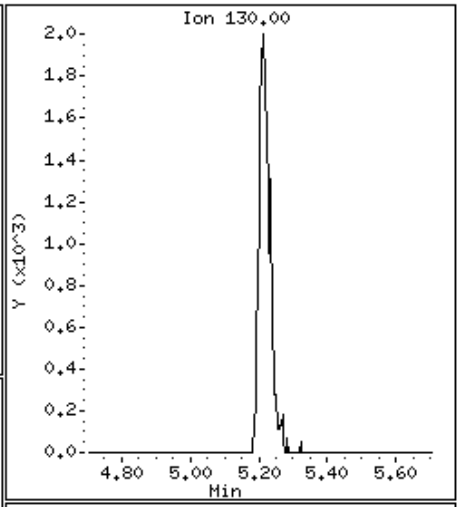
Sample Info: HS23011294-07;HS23011294-07;;;

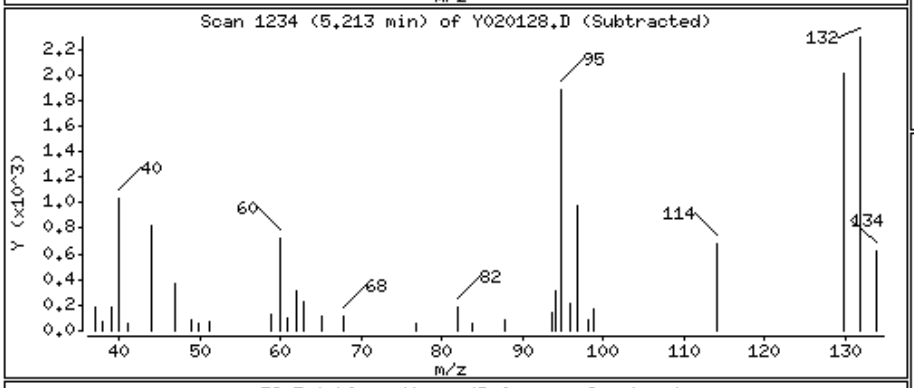
Purge Volume: 5.0 Operator: PC

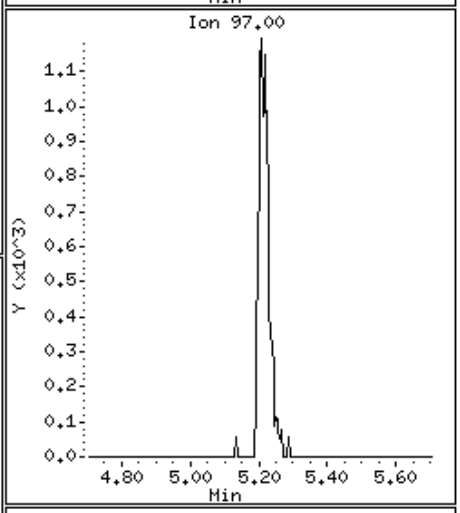
Column phase: DB624 Column diameter: 0.18

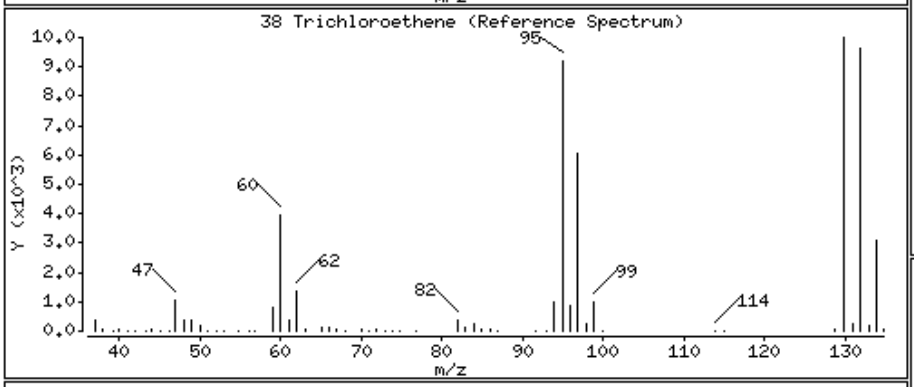
38 Trichloroethene Concentration: 0.64 ug/l

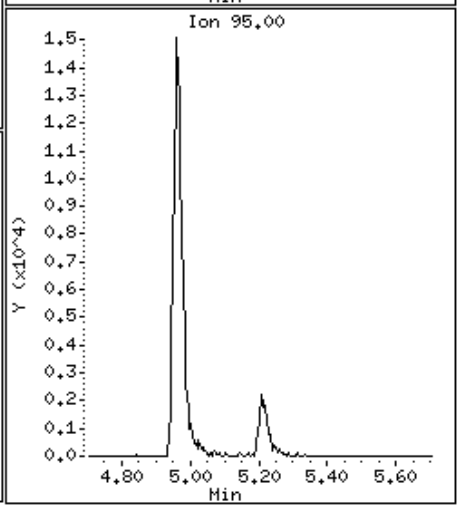


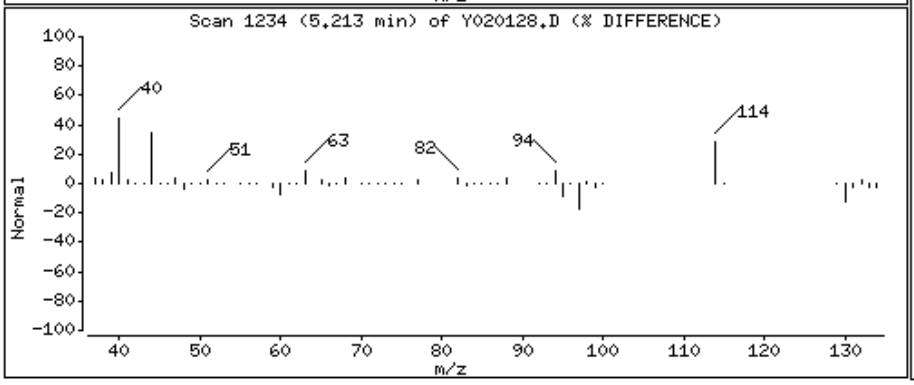












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020128.D
Inj Date : 02-FEB-2023 06:43
InstruID : voa6.i
LabSampID : HS23011294-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020129.D Page 1
Report Date: 14-Feb-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020129.D
Lab Smp Id: HS23011294-05 Client Smp ID: HS23011294-05
Inj Date : 02-FEB-2023 07:04
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-05;HS23011294-05;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 56
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

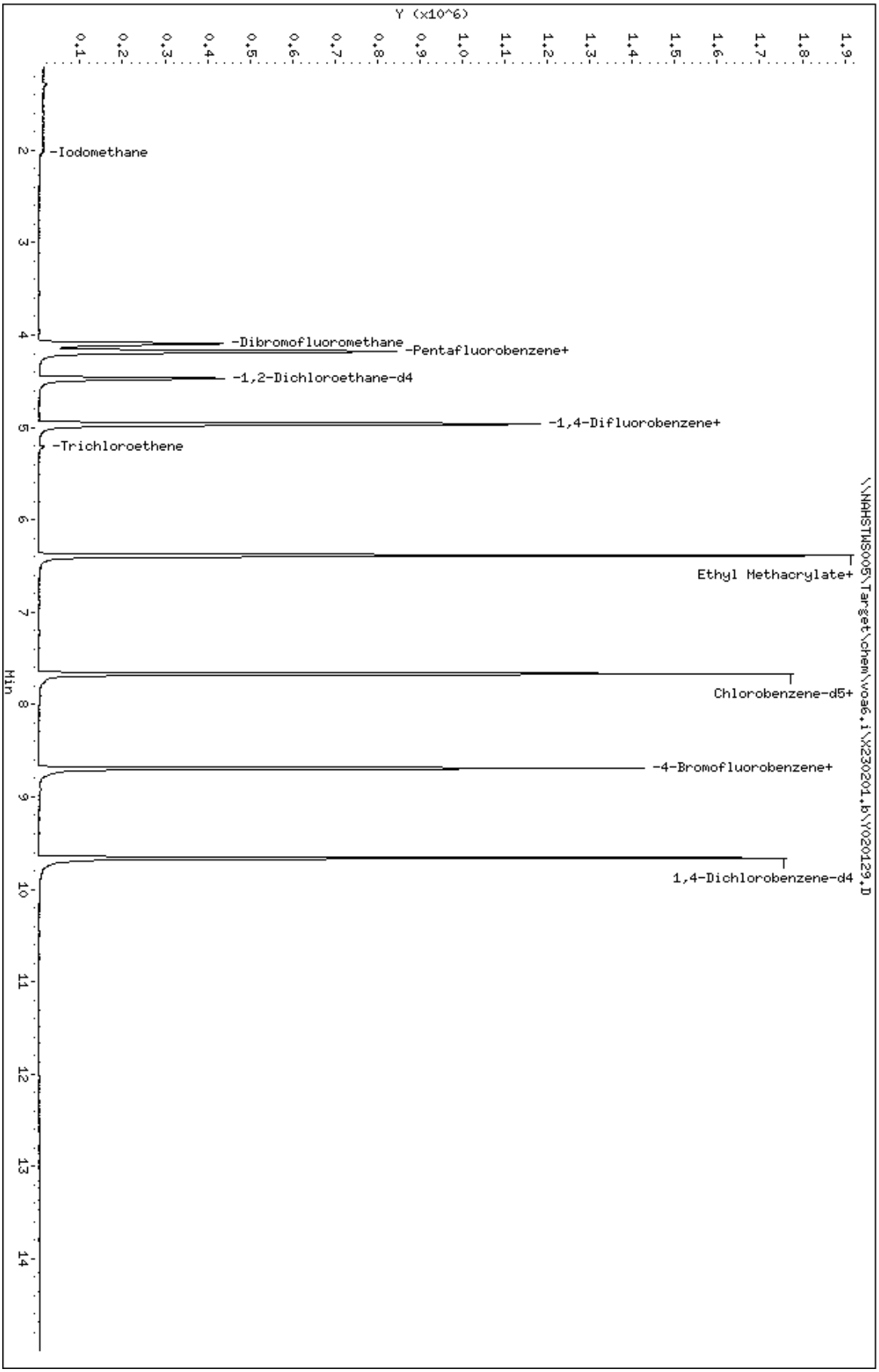
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.178	4.178	(1.000)	707149	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	308700	45.4486	45.44
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	350082	48.8543	48.85
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	988690	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	884133	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1136850	52.0356	52.03
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	412884	50.5588	50.55
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	450980	50.0000	
38 Trichloroethene	130	5.212	5.205	(1.051)	4227	0.63123	0.63(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020129.D
Date : 02-FEB-2023 07:04
Client ID: HS230411294-05
Sample Info: HS230411294-05;HS230411294-05;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020129.D Page 2

Date : 02-FEB-2023 07:04

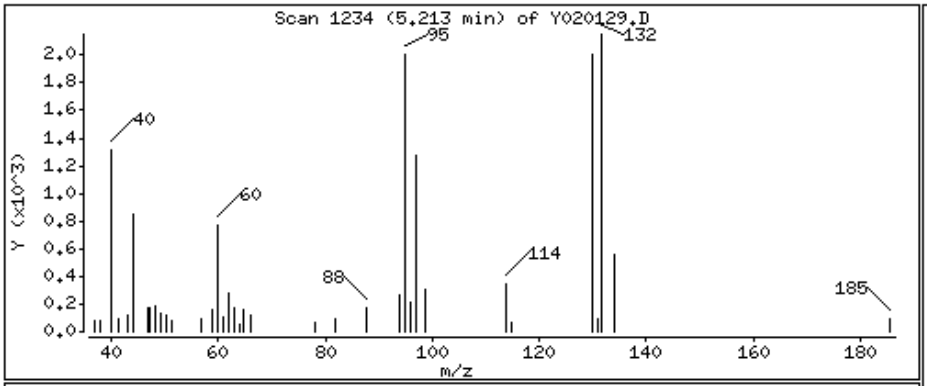
Client ID: HS23011294-05 Instrument: voa6.i

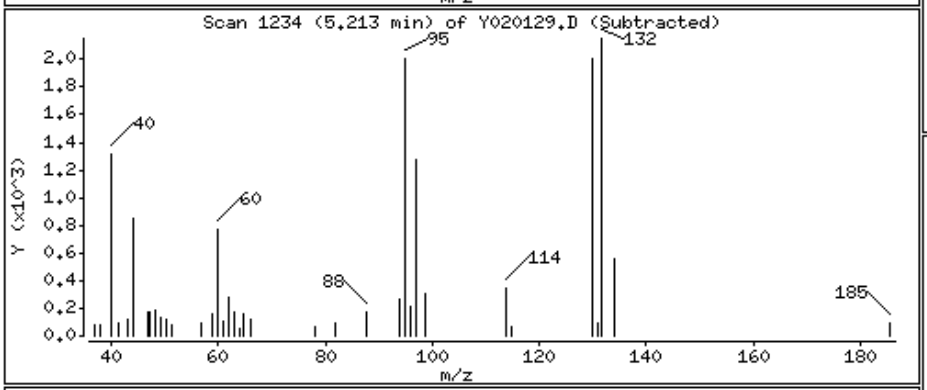
Sample Info: HS23011294-05;HS23011294-05;;;

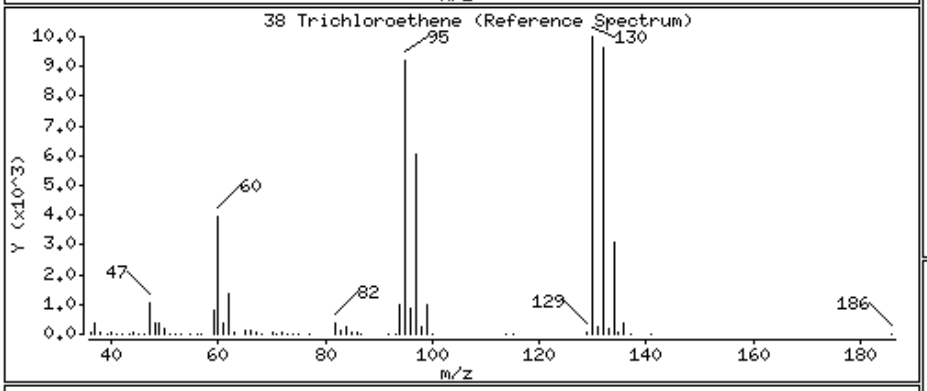
Purge Volume: 5.0 Operator: PC

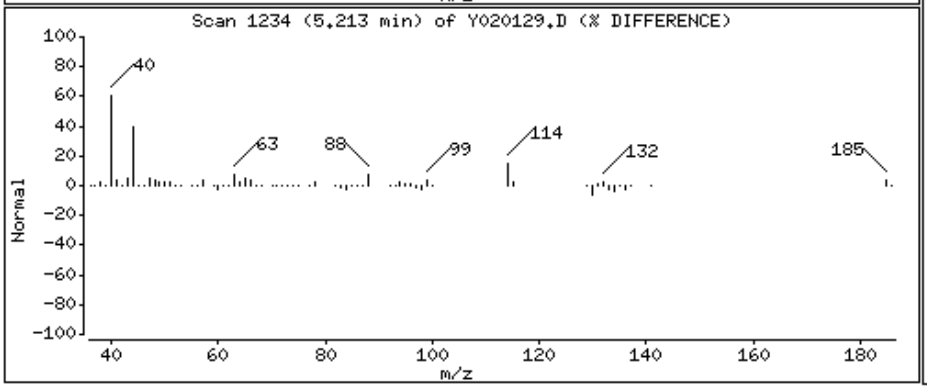
Column phase: DB624 Column diameter: 0.18

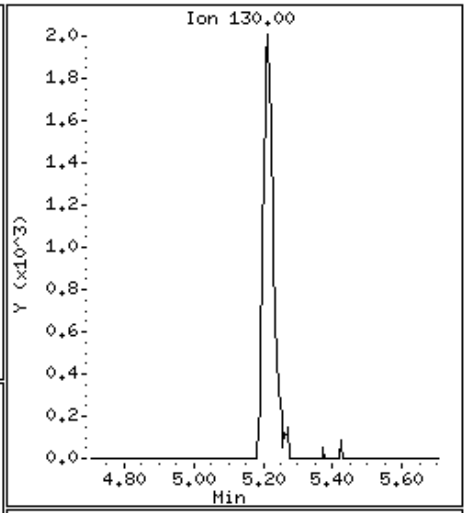
38 Trichloroethene Concentration: 0.63 ug/l

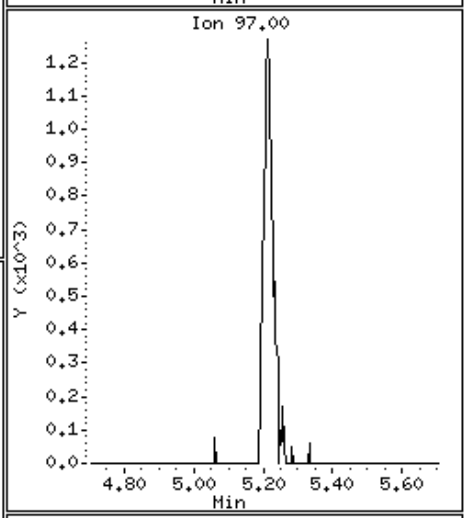


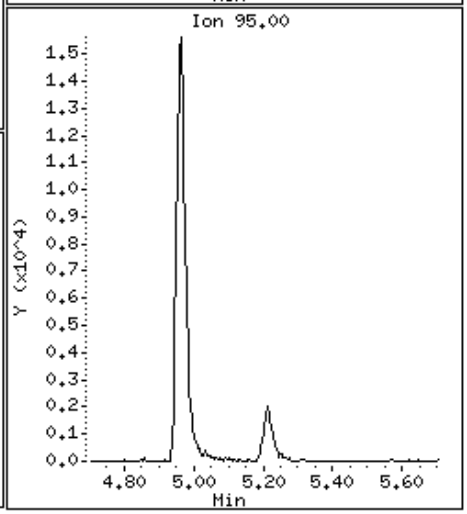












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Inj Date : 02-FEB-2023 07:04
InstruID : voa6.i
LabSampID : HS23011294-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020130.D Page 1
Report Date: 14-Feb-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020130.D
Lab Smp Id: HS23011294-04 Client Smp ID: HS23011294-04
Inj Date : 02-FEB-2023 07:25
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-04;HS23011294-04;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 12:59 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 57
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.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

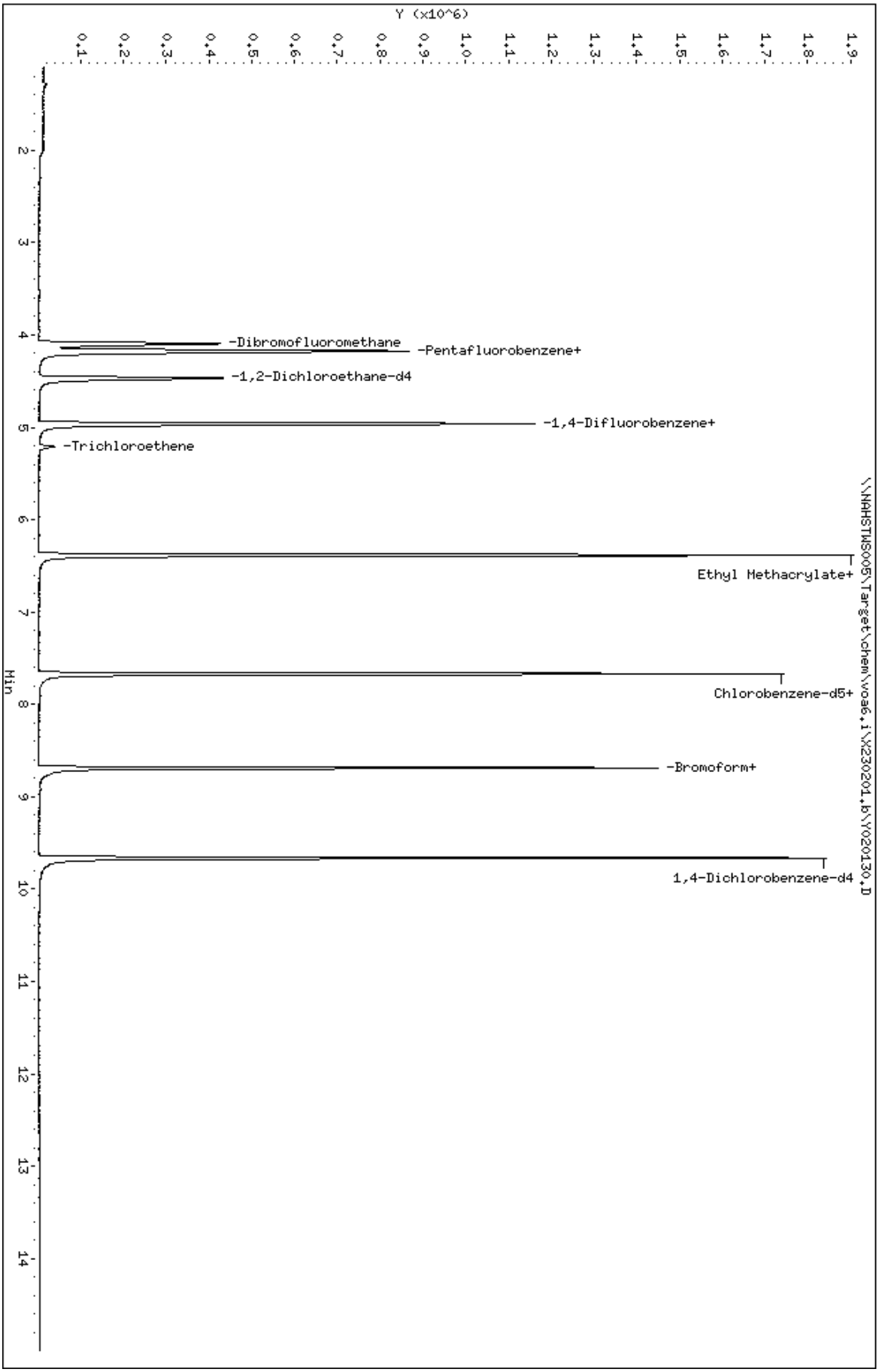
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	709079	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	306337	44.9763	44.97
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	353699	49.2226	49.22
* 36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	991848	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	875493	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1134787	52.4537	52.45
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	415349	51.3615	51.36
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	460394	50.0000	
38 Trichloroethene	130	5.208	5.205	(1.049)	13047	1.94214	1.94(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\NAHSTWS005\Target\chem\voa6,i\X230201,b\Y020130.D
Date : 02-FEB-2023 07:25
Client ID: HS230411294-04
Sample Info: HS230411294-04;HS230411294-04;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020130.D Page 2

Date : 02-FEB-2023 07:25

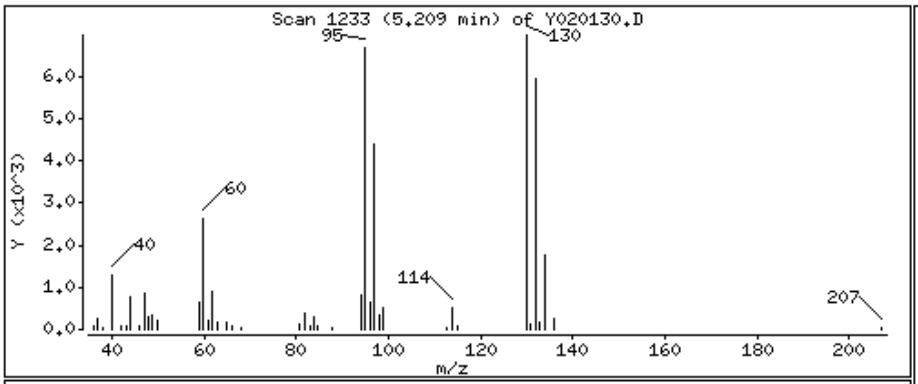
Client ID: HS23011294-04 Instrument: voa6.i

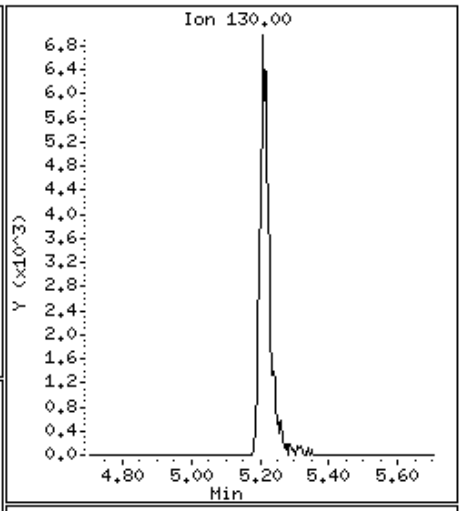
Sample Info: HS23011294-04;HS23011294-04;;;

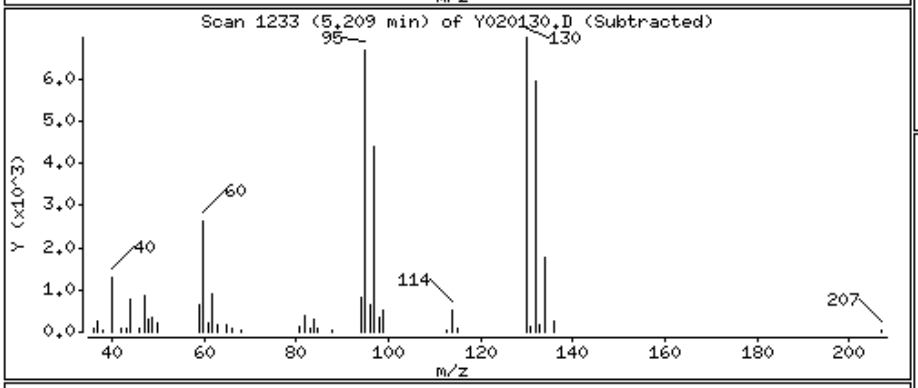
Purge Volume: 5.0 Operator: PC

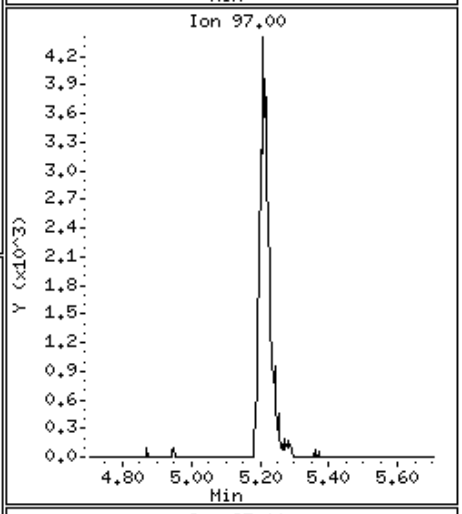
Column phase: DB624 Column diameter: 0.18

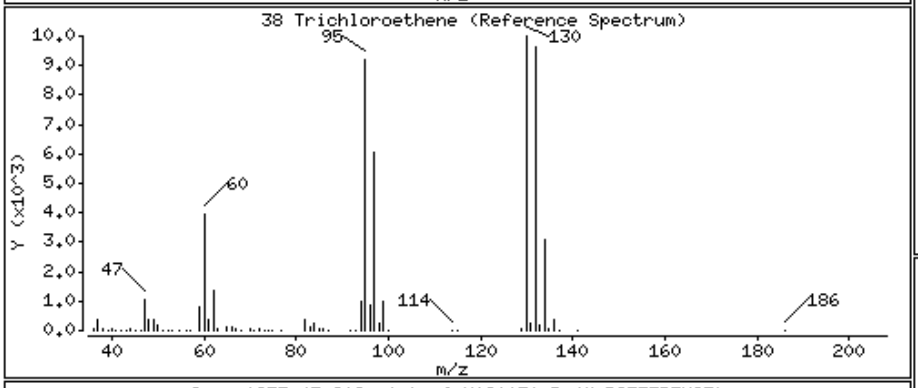
38 Trichloroethene Concentration: 1.94 ug/l

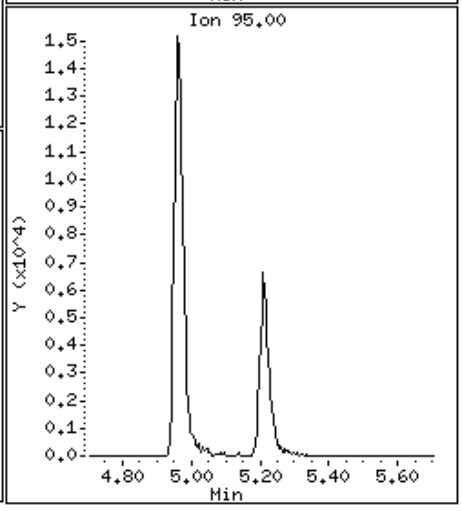


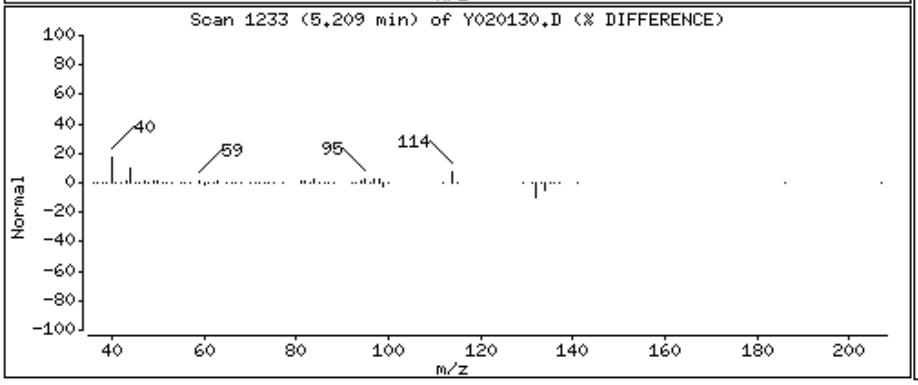












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020130.D
Inj Date : 02-FEB-2023 07:25
InstruID : voa6.i
LabSampID : HS23011294-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020131.D Page 1
Report Date: 14-Feb-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020131.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 02-FEB-2023 07:46
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\8260W.m
Meth Date : 14-Feb-2023 13:00 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 58 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.178	(1.000)	561458	50.0000	
135 1,4-Dioxane	88	5.595	5.595	(1.339)	60583	1000.00	1180.42
140 1,3-Butadiene	54	1.160	1.160	(0.278)	206768	50.0000	53.65
25 Methacrylonitrile	41	3.822	3.822	(0.915)	208166	50.0000	52.36
12 Isobutyl Alcohol	43	4.669	4.669	(1.118)	691963	1000.00	1095.71
13 Acetonitrile	39	2.195	2.195	(0.525)	262715	500.000	514.12
14 Allyl Chloride	41	2.195	2.195	(0.525)	502719	50.0000	51.65
4 Propionitrile	54	3.645	3.645	(0.873)	302705	500.000	528.38
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	90023	50.0000	51.59
130 Ethyl Acetate	43	3.649	3.649	(0.873)	246864	50.0000	56.34
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	214201	50.0000	55.95
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	217310	50.0000	53.42
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	69847	100.000	100.07
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	538968	50.0000	54.07
156 Diisopropyl ether	45	2.997	2.997	(0.717)	727396	50.0000	49.94
182 Epichlorohydrin	57	6.089	6.089	(1.227)	76829	200.000	198.61
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1081733	50.0000	49.93
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	515303	50.0000	130.58
3 Chloromethane	50	1.074	1.074	(0.257)	262670	50.0000	51.63
5 Vinyl Chloride	62	1.141	1.141	(0.273)	252037	50.0000	51.38

6	Bromomethane	94	1.336	1.336 (0.320)	174746	50.0000	47.20
7	Chloroethane	64	1.400	1.400 (0.335)	159213	50.0000	46.63

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020131.D Page 2
Report Date: 14-Feb-2023 13:00

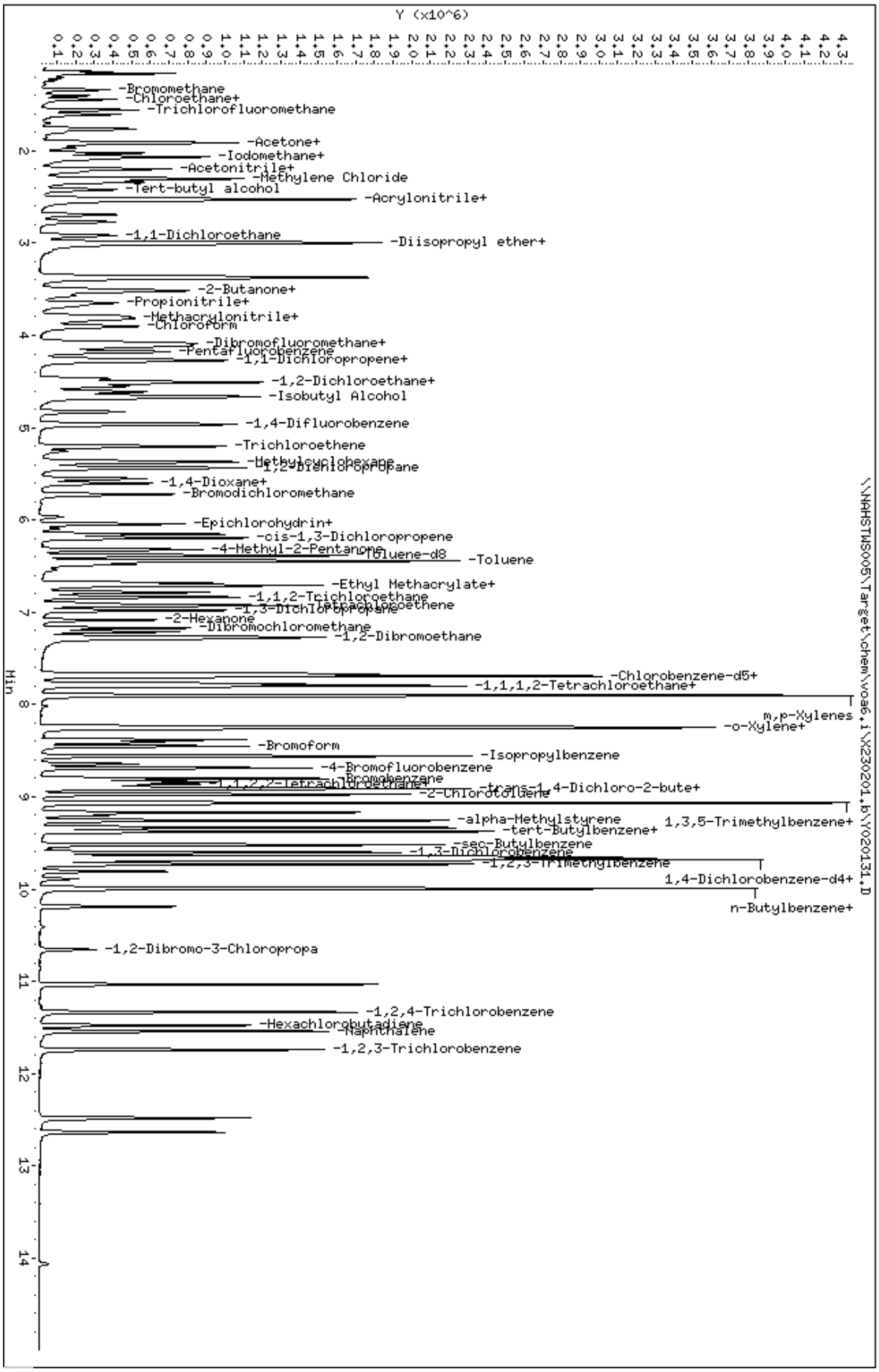
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	381108	50.0000	55.52
	9 Acrolein	56	1.441	1.441	(0.345)	33431	100.000	87.42
	10 Acetone	43	1.970	1.970	(0.472)	126405	100.000	80.22
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	211567	50.0000	49.64
	15 Iodomethane	142	2.022	2.022	(0.484)	575643	100.000	102.30
	16 Acrylonitrile	53	2.528	2.528	(0.605)	151944	100.000	105.13
	17 Methylene Chloride	84	2.300	2.300	(0.550)	292808	50.0000	50.09
	18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	703864	50.0000	50.46
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1138118	100.000	102.08
	20 trans-1,2-Dichloroethene	96	2.525	2.525	(0.604)	255982	50.0000	53.67
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	1127663	100.000	92.09
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	442434	50.0000	52.86
	24 2-Butanone	43	3.574	3.574	(0.856)	172354	100.000	103.04
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	323299	50.0000	45.49
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	300750	50.0000	51.81
	28 Chloroform	83	3.900	3.900	(0.934)	510370	50.0000	54.40
	29 Bromochloromethane	128	3.788	3.788	(0.907)	159143	50.0000	50.08
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	259287	50.0000	48.08
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	430037	50.0000	57.77
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	361099	50.0000	58.88
	33 1,2-Dichloroethane	62	4.553	4.553	(0.918)	397338	50.0000	56.14
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	359393	50.0000	54.87
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	295027	50.0000	51.83
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	863807	50.0000	
	37 Benzene	78	4.508	4.508	(0.909)	1099278	50.0000	53.29
	38 Trichloroethene	130	5.205	5.205	(1.049)	329123	50.0000	56.25
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	409827	50.0000	52.93
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	288728	100.000	131.09
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	280625	50.0000	51.14
	44 Dibromomethane	93	5.550	5.550	(1.119)	189457	50.0000	50.79
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	478743	100.000	110.81
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	474479	50.0000	52.18
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	808262	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	965409	50.0000	48.33
	50 Toluene	91	6.442	6.442	(0.840)	1183948	50.0000	52.99
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	407565	50.0000	54.01
	52 2-Hexanone	43	7.083	7.083	(0.924)	322853	100.000	109.84
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	231033	50.0000	51.54
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	475038	50.0000	53.84
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	350713	50.0000	54.21
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	255455	50.0000	55.26
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	308137	50.0000	54.98
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	224956	50.0000	53.88
	59 Chlorobenzene	112	7.694	7.694	(1.003)	824160	50.0000	52.01
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	317324	50.0000	53.81
	61 Ethylbenzene	106	7.799	7.799	(1.017)	408647	50.0000	54.74
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1028534	100.000	106.88
	63 o-Xylene	106	8.241	8.241	(1.075)	507017	50.0000	53.38
	64 Styrene	104	8.256	8.256	(1.077)	892293	50.0000	56.05
	66 Bromoform	173	8.410	8.410	(1.097)	239282	50.0000	53.39
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1241957	50.0000	57.23
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	361415	50.0000	50.40

$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	380448	50.0000	50.95
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	449845	50.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	290098	50.0000	57.95(M)
73	n-Propylbenzene	91	8.908	8.908	(0.922)	1437434	50.0000	57.68
74	Bromobenzene	156	8.803	8.803	(0.911)	398555	50.0000	54.00
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1075676	50.0000	58.43
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	929413	50.0000	56.84
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	1068970	50.0000	57.34
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	892166	50.0000	59.21
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1090659	50.0000	56.31
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1219433	50.0000	60.82
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1076177	50.0000	59.90
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	679863	50.0000	55.50
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	710722	50.0000	53.16
87	n-Butylbenzene	91	9.992	9.992	(1.034)	906460	50.0000	52.27
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	685454	50.0000	54.33
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	64686	50.0000	56.41
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	465157	50.0000	58.42
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	188459	50.0000	53.36
92	Naphthalene	128	11.540	11.540	(1.194)	1060317	50.0000	58.53
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	429501	50.0000	56.32
M 94	1,2-Dichloroethylene (total)	96				556732	100.000	(a)
141	Cyclohexane	56	4.118	4.118	(0.986)	324286	50.0000	57.11
138	Freon TF	101	1.913	1.913	(0.458)	212275	50.0000	51.50
147	Methylcyclohexane	55	5.377	5.377	(1.084)	577903	50.0000	54.65
146	Methyl Acetate	43	2.228	2.228	(0.533)	140002	50.0000	55.41
148	Tert-Butyl alcohol	59	2.423	2.423	(0.580)	458622	1000.00	1179.66
149	Isopropyl Alcohol	45	2.090	2.090	(0.500)	242909	1000.00	1196.38

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\voa6.i\X230201.b\Y020131.D
Date : 02-FEB-2023 07:46
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230201.b\Y020131.D
Inj Date : 02-FEB-2023 07:46
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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HEIGHT
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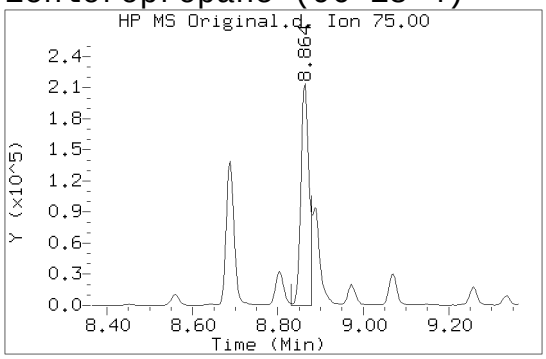
14-Feb-2023
12:59
linh
pham



AFTER

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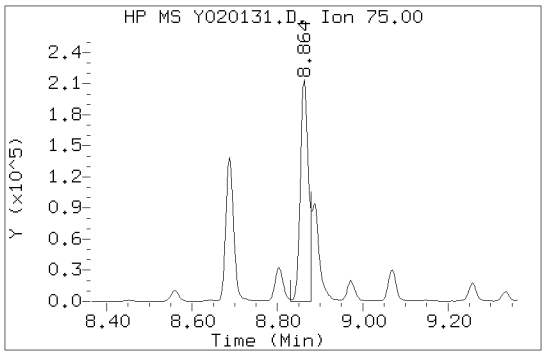

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14-Feb-2023
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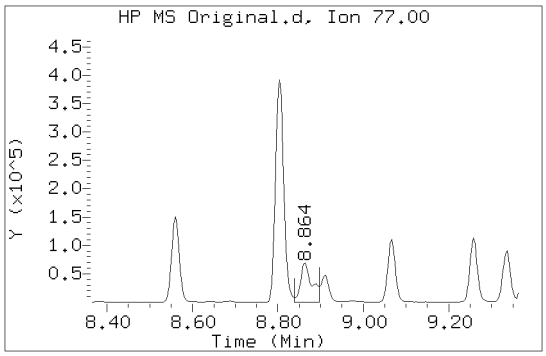

AFTER

MASS
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AREA
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HEIGHT
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14-Feb-2023
12:59
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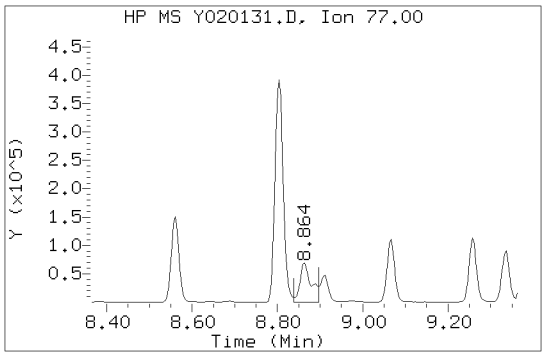


right solutions.
right partner.

Raw Data VOA6 427191

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\X230202.b\X020201.D Page 1
Report Date: 02-Feb-2023 14:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020201.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-FEB-2023 13:46
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham 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: NAHSTW7051

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	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.687	8.889	(0.000)	95	149696			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	26248			15.00- 40.00	17.53
8.687	8.889	(0.000)	75	70192			30.00- 60.00	46.89
8.687	8.889	(0.000)	96	10642			5.00- 9.00	7.11
8.687	8.889	(0.000)	173	627			0.00- 2.00	0.51
8.687	8.889	(0.000)	174	123608			50.00- 0.00	82.57
8.687	8.889	(0.000)	175	9737			5.00- 9.00	7.88
8.687	8.889	(0.000)	176	121272			95.00- 101.00	98.11
8.687	8.889	(0.000)	177	7731			5.00- 9.00	6.37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.53
75	30.00 - 60.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.42 (0.51)
174	Greater than 50.00% of mass 95	82.57
175	5.00 - 9.00% of mass 174	6.50 (7.88)
176	95.00 - 101.00% of mass 174	81.01 (98.11)
177	5.00 - 9.00% of mass 176	5.16 (6.37)

Data File: X020201.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1573	65.20	107	96.90	424	139.00	168
37.10	6704	65.80	67	98.00	1181	140.00	301
38.00	5721	66.90	463	98.90	85	140.90	1086
39.00	3315	68.00	15484	102.80	97	141.90	228
40.00	1584	69.00	15803	103.90	845	142.90	1235
41.10	1132	70.10	1861	105.10	565	144.90	75
42.00	1681	71.00	218	105.90	711	145.70	246
42.90	1225	71.90	668	106.90	528	147.10	67
44.00	1645	73.00	6647	108.90	344	147.70	270
45.00	1341	74.00	22936	109.90	104	148.80	95
45.90	113	75.00	70192	110.60	99	149.80	127
47.00	1744	76.00	6753	112.10	130	152.70	249
47.90	1130	77.00	1133	112.90	181	153.60	75
49.00	5488	77.80	524	115.00	178	154.80	340
50.00	26248	78.90	4197	116.00	405	155.80	67
51.00	8107	79.90	1400	116.80	837	157.00	260
52.00	399	80.90	3850	117.80	532	158.80	107
53.00	192	81.90	882	118.90	826	160.90	353
54.00	224	83.10	267	120.10	140	171.20	94
55.00	2550	85.00	164	124.10	68	172.80	627
56.00	2638	86.00	148	125.80	63	173.90	123608
57.00	4162	87.00	6005	126.70	134	174.90	9737
57.90	346	87.90	5989	128.00	566	175.90	121272
58.80	124	91.00	592	129.00	327	176.90	7731
60.00	1563	91.90	3796	129.90	408	177.80	306
61.00	6378	93.00	6132	130.70	181	186.00	160
62.00	6235	94.00	15826	131.80	69	278.00	54
63.00	5087	95.00	149696	135.00	211		
64.10	453	96.00	10642	136.80	180		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020201.D

Date : 02-FEB-2023 13:46

Client ID: BFB

Instrument: voa6.i

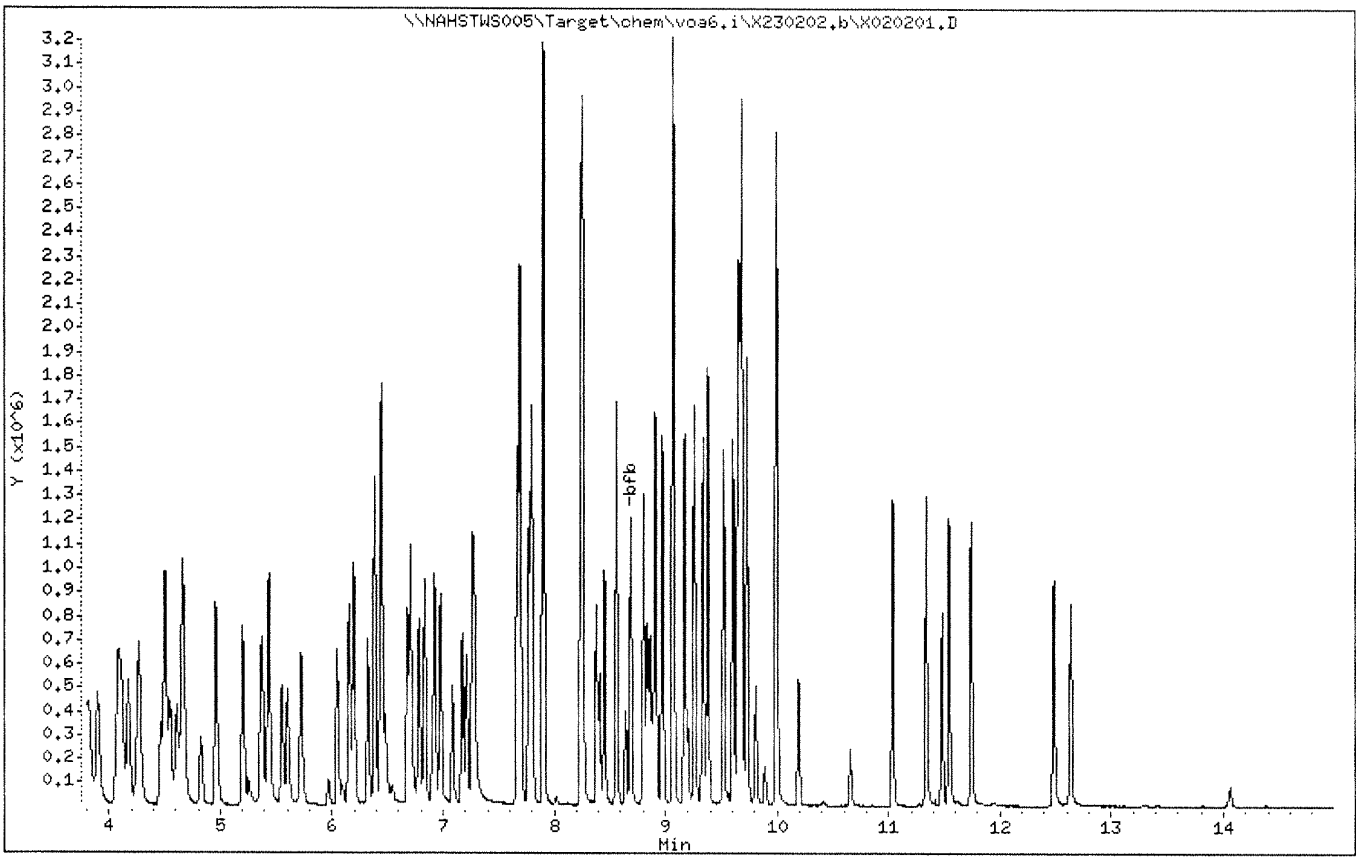
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020201.D

Date : 02-FEB-2023 13:46

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

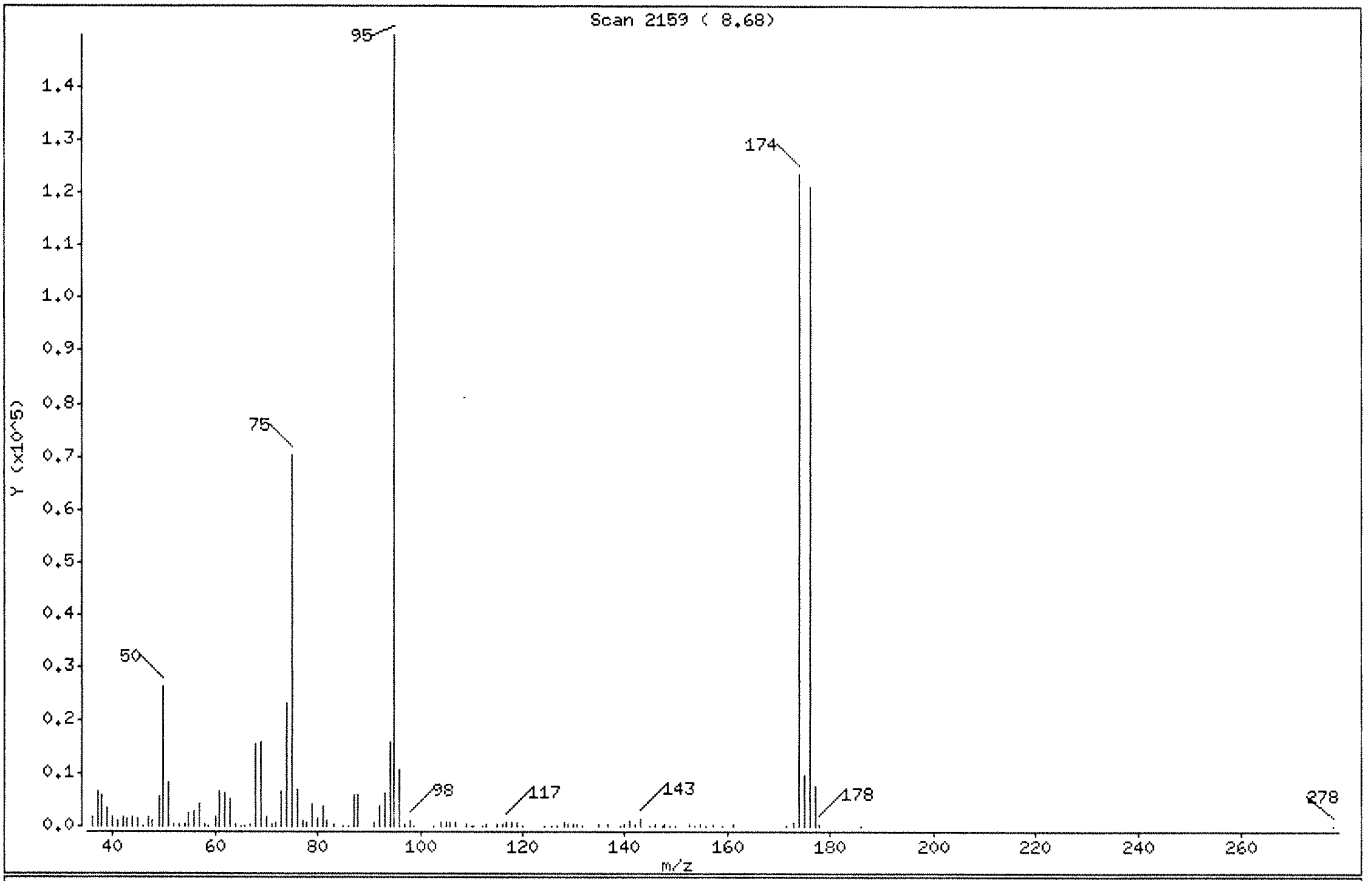
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.53
75	30.00 - 60.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.42 (0.51)
174	Greater than 50.00% of mass 95	82.57
175	5.00 - 9.00% of mass 174	6.50 (7.88)
176	95.00 - 101.00% of mass 174	81.01 (98.11)
177	5.00 - 9.00% of mass 176	5.16 (6.37)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020201.D

Date : 02-FEB-2023 13:46

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: X020201.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 114

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36.00	1573	65.20	107	96.90	424	139.00	168
37.10	6704	65.80	67	98.00	1181	140.00	301
38.00	5721	66.90	463	98.90	85	140.90	1086
39.00	3315	68.00	15484	102.80	97	141.90	228
40.00	1584	69.00	15803	103.90	845	142.90	1235
41.10	1132	70.10	1861	105.10	565	144.90	75
42.00	1681	71.00	218	105.90	711	145.70	246
42.90	1225	71.90	668	106.90	528	147.10	67
44.00	1645	73.00	6647	108.90	344	147.70	270
45.00	1341	74.00	22936	109.90	104	148.80	95
45.90	113	75.00	70192	110.60	99	149.80	127
47.00	1744	76.00	6753	112.10	130	152.70	249
47.90	1130	77.00	1133	112.90	181	153.60	75
49.00	5488	77.80	524	115.00	178	154.80	340
50.00	26248	78.90	4197	116.00	405	155.80	67
51.00	8107	79.90	1400	116.80	837	157.00	260
52.00	399	80.90	3850	117.80	532	158.80	107
53.00	192	81.90	882	118.90	826	160.90	353
54.00	224	83.10	267	120.10	140	171.20	94
55.00	2550	85.00	164	124.10	68	172.80	627
56.00	2638	86.00	148	125.80	63	173.90	123608
57.00	4162	87.00	6005	126.70	134	174.90	9737
57.90	346	87.90	5989	128.00	566	175.90	121272
58.80	124	91.00	592	129.00	327	176.90	7731
60.00	1563	91.90	3796	129.90	408	177.80	306
61.00	6378	93.00	6132	130.70	181	186.00	160
62.00	6235	94.00	15826	131.80	69	278.00	54
63.00	5087	95.00	149696	135.00	211		
64.10	453	96.00	10642	136.80	180		

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Inj Date : 02-FEB-2023 13:46
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020203.D Page 1
Report Date: 09-Feb-2023 15:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020203.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 02-FEB-2023 14:28
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

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	4.178	4.178	(1.000)	583476	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	61218	1000.00	1147.78
140 1,3-Butadiene	54	1.164	1.164	(0.279)	174489	50.0000	43.57
25 Methacrylonitrile	41	3.818	3.818	(0.914)	215124	50.0000	52.06
12 Isobutyl Alcohol	43	4.669	4.669	(1.118)	732711	1000.00	1116.45
13 Acetonitrile	39	2.195	2.195	(0.525)	268674	500.000	505.94
14 Allyl Chloride	41	2.195	2.195	(0.525)	534010	50.0000	52.79
4 Propionitrile	54	3.645	3.645	(0.873)	311471	500.000	523.16
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	100273	50.0000	56.60
194 Acetaldehyde	44	1.209	1.209	(0.289)	50010	200.000	127.77(M)
23 Chloroprene	53	1.767	1.767	(0.423)	81327	50.0000	40.99(M)
130 Ethyl Acetate	43	3.645	3.645	(0.873)	250571	50.0000	55.03
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	222203	50.0000	55.85
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	225205	50.0000	54.34
142 Tetrahydrofuran	42	3.836	3.836	(0.918)	70376	100.000	96.92
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	502238	50.0000	50.18
156 Diisopropyl ether	45	2.993	2.993	(0.716)	762866	50.0000	50.40
182 Epichlorohydrin	57	6.093	6.093	(1.228)	85347	200.000	216.34
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1104502	50.0000	50.78
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	442612	50.0000	108.00

3 Chloromethane	50	1.074	1.074 (0.257)	267981	50.0000	50.72
5 Vinyl Chloride	62	1.141	1.141 (0.273)	217447	50.0000	42.66

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020203.D Page 2
Report Date: 09-Feb-2023 15:23

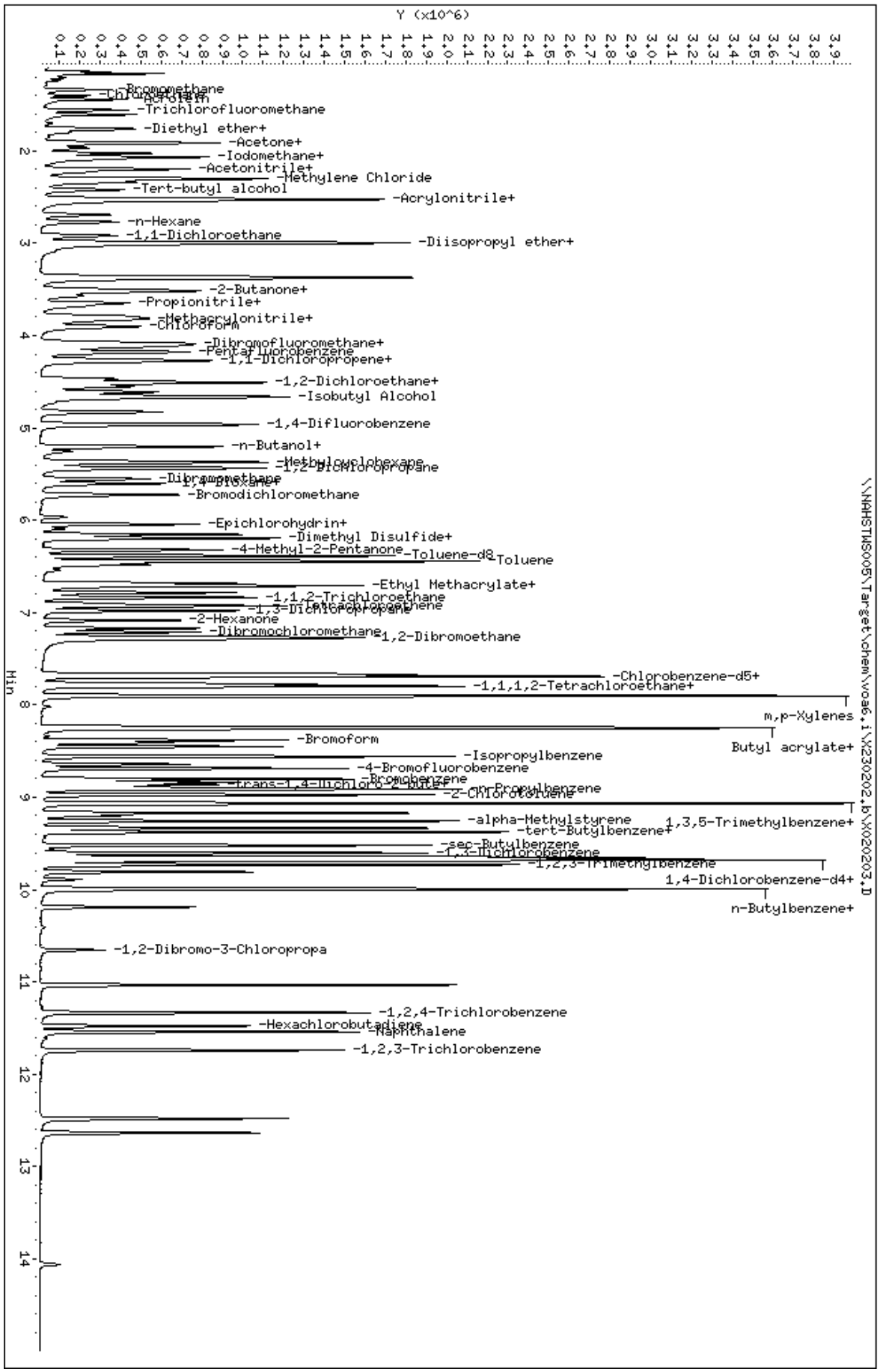
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.336	1.336	(0.320)	158975	50.0000	41.54
	7 Chloroethane	64	1.400	1.400	(0.335)	144524	50.0000	40.73
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	304014	50.0000	42.62
	9 Acrolein	56	1.441	1.441	(0.345)	33308	100.000	83.93
	10 Acetone	43	1.966	1.966	(0.471)	180136	100.000	110.03
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	181924	50.0000	41.08
	15 Iodomethane	142	2.026	2.026	(0.485)	565777	100.000	97.15
	16 Acrylonitrile	53	2.528	2.528	(0.605)	164065	100.000	109.23
	17 Methylene Chloride	84	2.299	2.299	(0.550)	273521	50.0000	45.02
	18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	729858	50.0000	50.35
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1010500	100.000	87.21
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	230672	50.0000	46.54
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	1221898	100.000	96.03
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	412323	50.0000	47.40
	24 2-Butanone	43	3.574	3.574	(0.856)	196507	100.000	112.75
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	354294	50.0000	47.97
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	278317	50.0000	46.14
	28 Chloroform	83	3.900	3.900	(0.934)	473684	50.0000	48.58
	29 Bromochloromethane	128	3.791	3.791	(0.908)	150403	50.0000	45.54
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	262527	50.0000	46.84
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	374944	50.0000	48.47
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	313038	50.0000	50.10
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	382055	50.0000	52.98
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	304392	50.0000	45.62
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	298019	50.0000	50.39
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	880046	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	1024596	50.0000	48.75
	38 Trichloroethene	130	5.205	5.205	(1.049)	296779	50.0000	49.79
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	394491	50.0000	50.01
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	299069	100.000	133.28
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	275402	50.0000	49.26
	44 Dibromomethane	93	5.550	5.550	(1.119)	184545	50.0000	48.56
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	488667	100.000	111.41
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	488013	50.0000	52.68
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	820599	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	992628	50.0000	48.95
	50 Toluene	91	6.442	6.442	(0.840)	1114427	50.0000	49.13
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	422801	50.0000	55.00
	52 2-Hexanone	43	7.083	7.083	(0.924)	358355	100.000	120.08
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	228761	50.0000	50.27
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	467165	50.0000	52.15
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	339959	50.0000	51.76
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	222295	50.0000	47.36
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	302512	50.0000	53.17
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	201027	50.0000	47.26
	59 Chlorobenzene	112	7.690	7.690	(1.003)	788115	50.0000	48.98
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	307471	50.0000	51.35
	61 Ethylbenzene	106	7.799	7.799	(1.017)	373840	50.0000	49.33
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	955643	100.000	97.82
	63 o-Xylene	106	8.241	8.241	(1.075)	477399	50.0000	49.51
	64 Styrene	104	8.256	8.256	(1.077)	850913	50.0000	52.65
	66 Bromoform	173	8.410	8.410	(1.097)	237420	50.0000	52.18

67	Isopropylbenzene	105	8.560	8.560 (1.116)	1106230	50.0000	50.21
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	365279	50.0000	50.74

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	388063	50.0000	51.19
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	451653	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	293290	50.0000	58.35(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1310228	50.0000	52.37
	74 Bromobenzene	156	8.803	8.803	(0.911)	382706	50.0000	51.64
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	987073	50.0000	53.40
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	868149	50.0000	52.88
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1017565	50.0000	54.37
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	780094	50.0000	51.56
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1022536	50.0000	52.58
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1069575	50.0000	53.13
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	975729	50.0000	54.09
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	648426	50.0000	52.72
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	680507	50.0000	50.70
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	841682	50.0000	48.47
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	651006	50.0000	51.39
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	65090	50.0000	56.54
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	460295	50.0000	57.58
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	173812	50.0000	49.07
	92 Naphthalene	128	11.540	11.540	(1.194)	1060839	50.0000	58.32
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	429378	50.0000	56.08
M	94 1,2-Dichloroethylene (total)	96				508989	100.000	(a)
	141 Cyclohexane	56	4.121	4.121	(0.987)	259718	50.0000	44.30
	138 Freon TF	101	1.910	1.910	(0.457)	171329	50.0000	40.00(M)
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	605612	50.0000	56.21
	146 Methyl Acetate	43	2.228	2.228	(0.533)	143247	50.0000	54.55
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	475143	1000.00	1176.04
	149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	255946	1000.00	1213.02

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020203.D
Inj Date : 02-FEB-2023 14:28
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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HEIGHT
217713
09-Feb-2023
15:23
Kori
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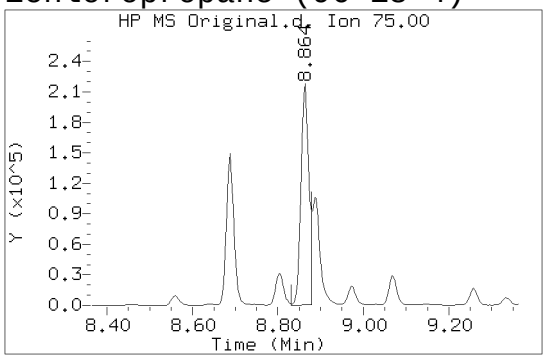

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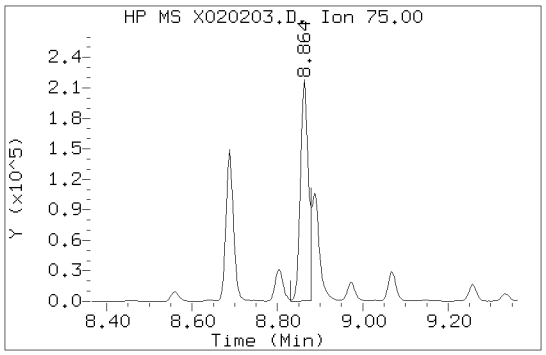

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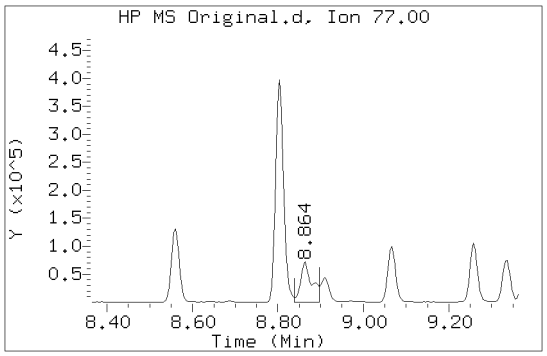

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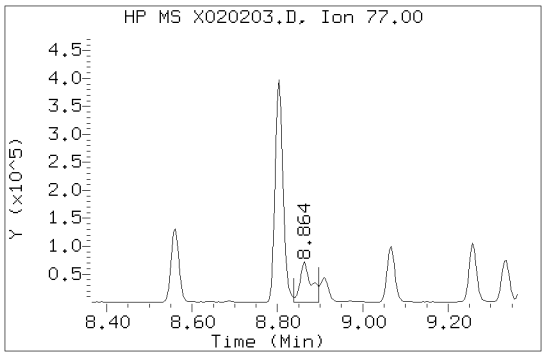

Chloroprene (126-99-8)

Reason Code:

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09-Feb-2023
15:23
Kori
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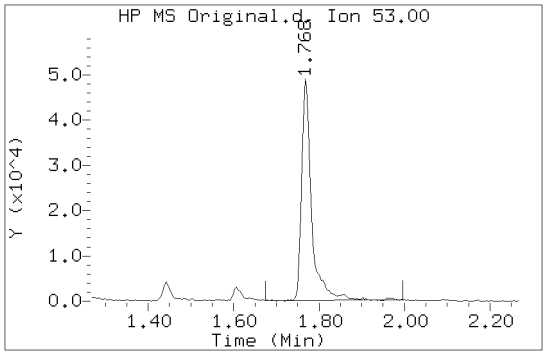

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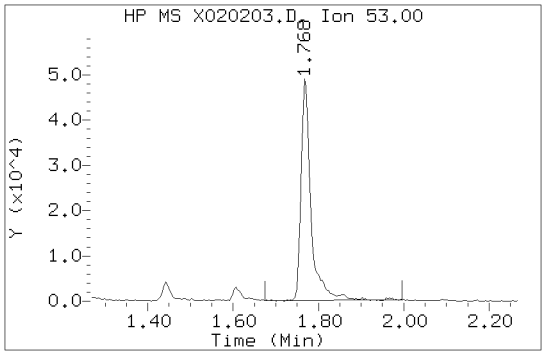

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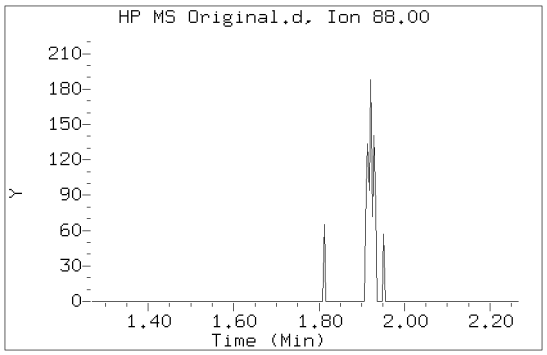

AFTER

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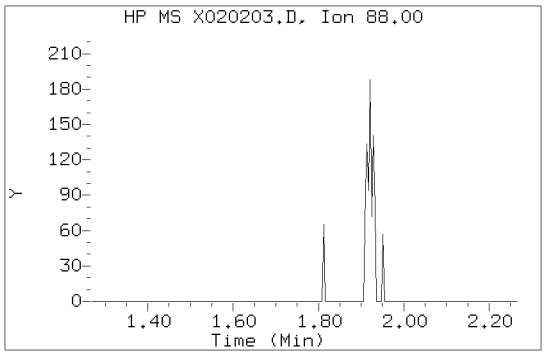

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Inj Date : 02-FEB-2023 14:28
InstruID : voa6.i
LabSampID : CCV

Freon TF (76-13-1)

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09-Feb-2023
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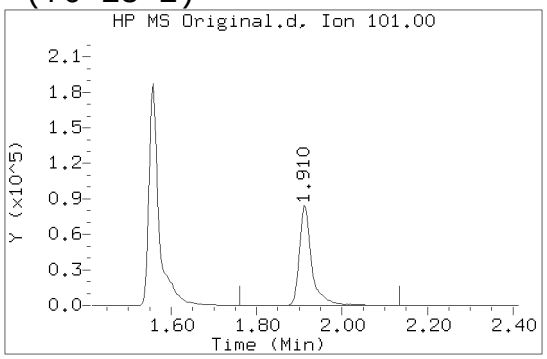
Bagsby



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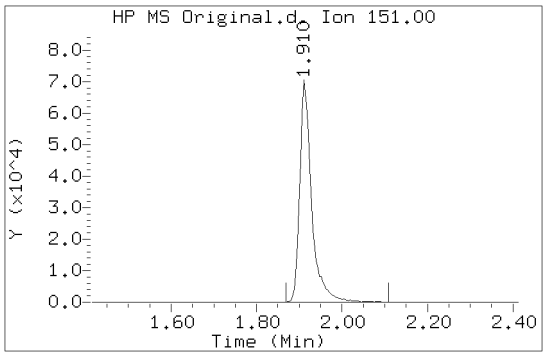

Reason Code:

AFTER

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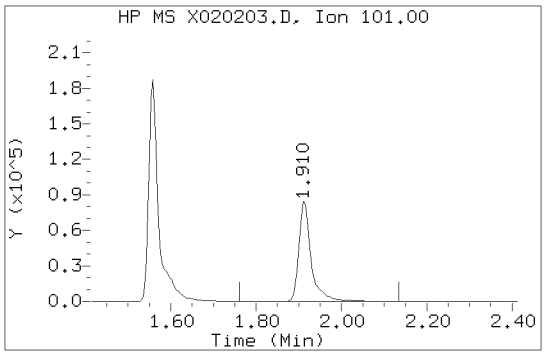

AFTER

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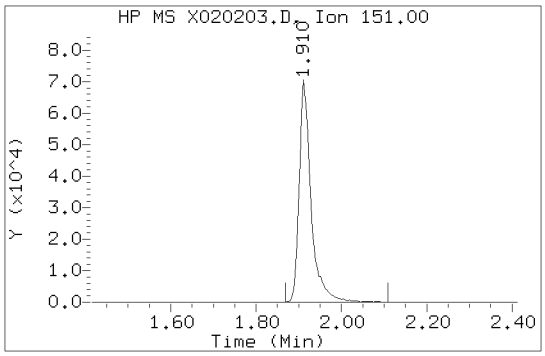

Acetaldehyde (75-07-0)

BEFORE

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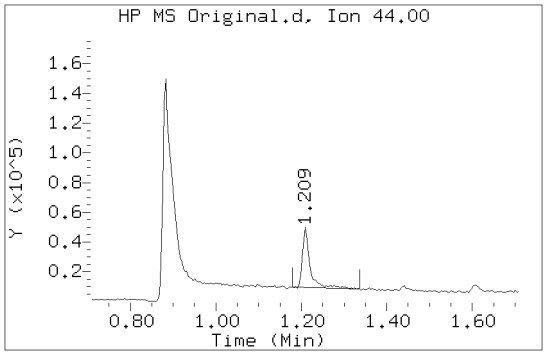

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09-Feb-2023
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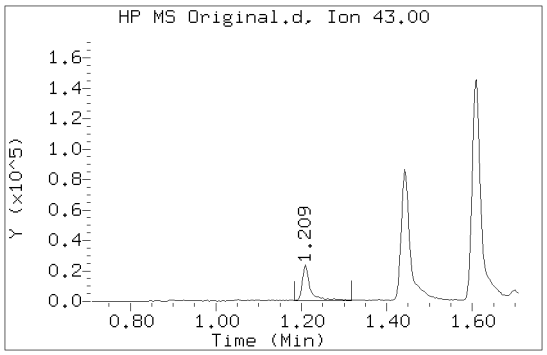

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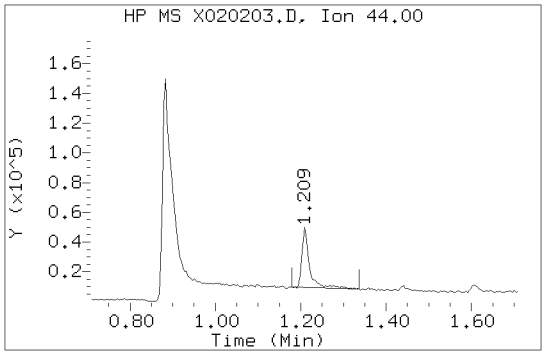
Bagsby



AFTER

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09-Feb-2023
15:23
Kori
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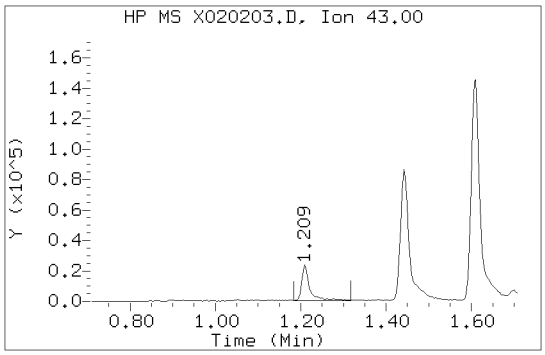

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Inj Date : 02-FEB-2023 14:28
InstruID : voa6.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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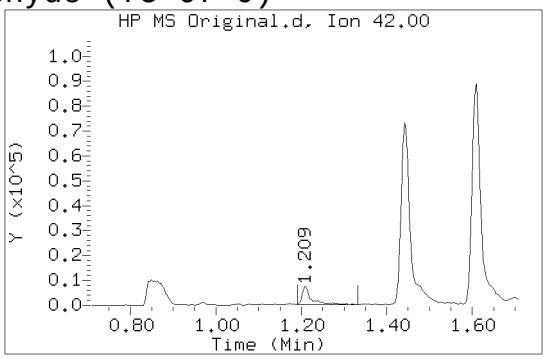

AFTER

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09-Feb-2023
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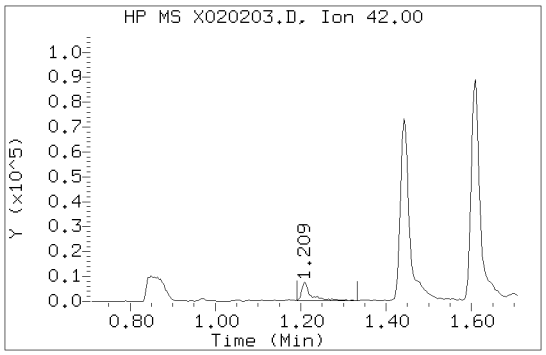


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020204.D Page 1
Report Date: 09-Feb-2023 15:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020204.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 02-FEB-2023 14:49
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

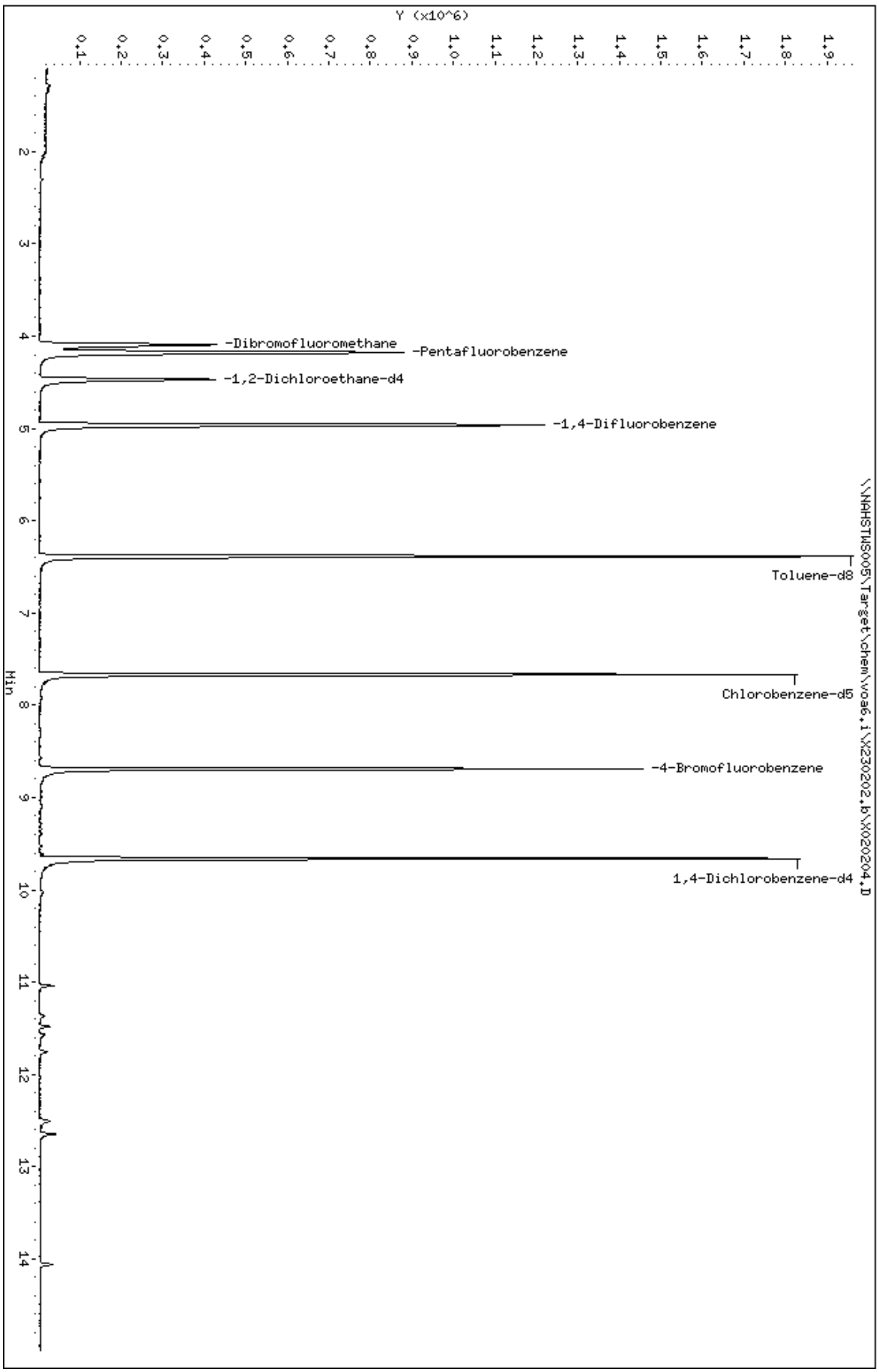
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.178	4.178	(1.000)	730612	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	308376	43.9374	43.93
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	347934	47.0055	47.00
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	1012385	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	908237	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1180130	52.5830	52.58
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	424856	50.6439	50.64
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	456862	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020204.D
Date : 02-FEB-2023 14:49
Client ID: CCB
Sample Info: CCB;CCB;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18



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Inj Date : 02-FEB-2023 14:49
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020205.D Page 1
Report Date: 09-Feb-2023 15:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020205.D
Lab Smp Id: VLCSW-230202 Client Smp ID: VLCSW-230202
Inj Date : 02-FEB-2023 15:10
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230202;VLCSW-230202;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

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	4.178	4.178	(1.000)	594963	50.0000	
135	1,4-Dioxane	88	5.598	5.598	(1.340)	24592	452.177	452.17(a)
140	1,3-Butadiene	54	1.160	1.164	(0.278)	86267	21.1266	21.12
25	Methacrylonitrile	41	3.818	3.818	(0.914)	87366	20.7380	20.73
12	Isobutyl Alcohol	43	4.672	4.669	(1.118)	293271	438.240	438.23
13	Acetonitrile	39	2.195	2.195	(0.525)	115189	212.726	212.72
14	Allyl Chloride	41	2.195	2.195	(0.525)	220376	21.3686	21.36
4	Propionitrile	54	3.653	3.645	(0.874)	123490	203.418	203.41(a)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	39678	22.3095	22.30
194	Acetaldehyde	44	1.209	1.209	(0.289)	87720	236.565	236.56
23	Chloroprene	53	1.771	1.767	(0.424)	40311	19.9268	19.92(M)
130	Ethyl Acetate	43	3.656	3.645	(0.875)	108810	23.4373	23.43
40	Methyl Methacrylate	41	5.606	5.602	(1.342)	88361	21.7811	21.78
49	Ethyl Methacrylate	69	6.708	6.708	(1.351)	90634	22.0542	22.05
142	Tetrahydrofuran	42	3.840	3.836	(0.919)	27154	34.7084	34.70
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	239643	23.3661	23.36
156	Diisopropyl ether	45	2.997	2.993	(0.717)	311315	20.1709	20.17
182	Epichlorohydrin	57	6.097	6.093	(1.228)	35375	91.8801	91.88
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	470299	21.0994	21.09
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	227060	54.5299	54.52

3 Chloromethane	50	1.074	1.074 (0.257)	120708	23.6437	23.64
5 Vinyl Chloride	62	1.141	1.141 (0.273)	104505	20.1074	20.10

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020205.D Page 2
Report Date: 09-Feb-2023 15:23

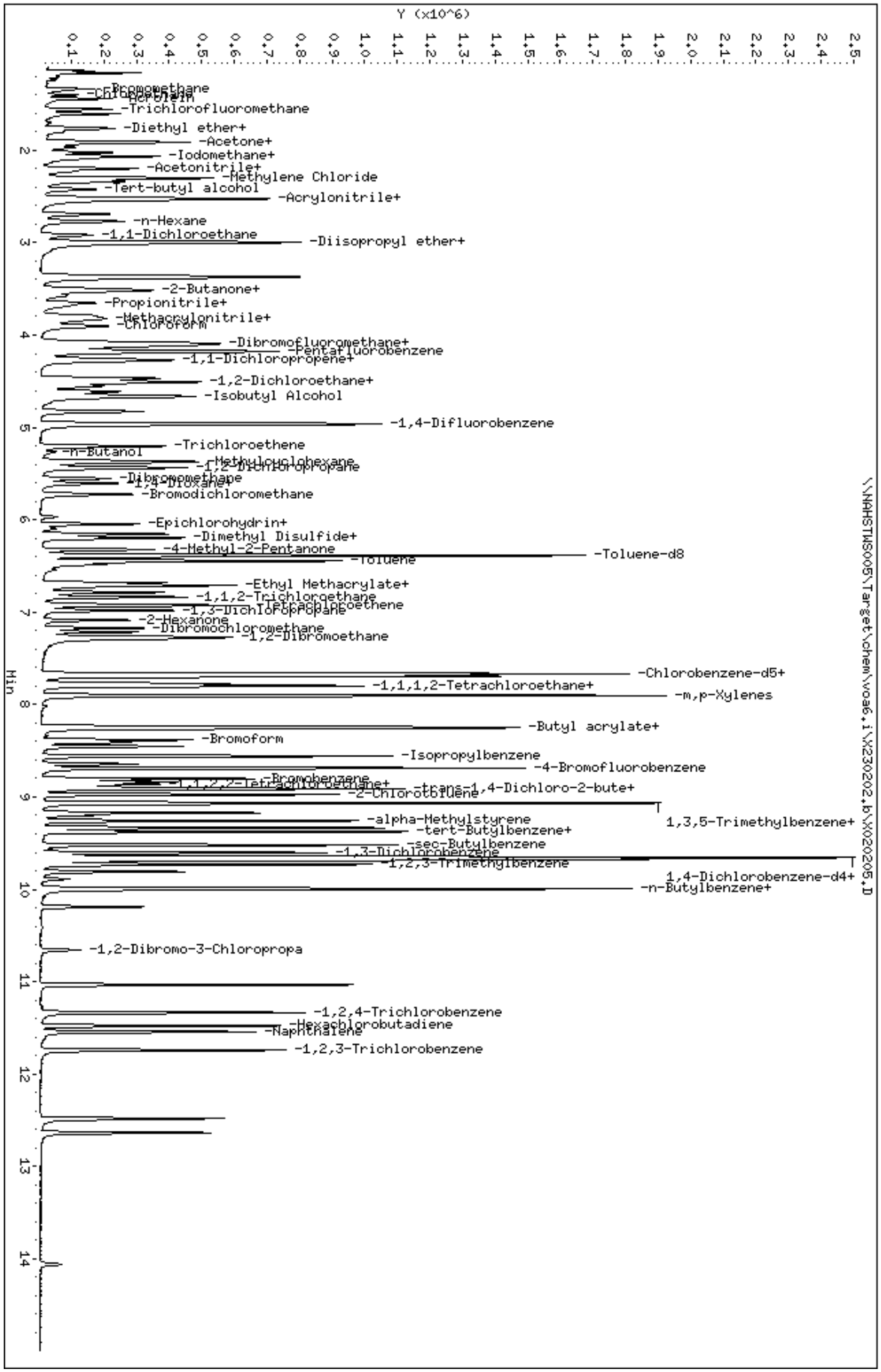
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	6 Bromomethane	94	1.336	1.336	(0.320)	71935	19.4178	19.41
	7 Chloroethane	64	1.400	1.400	(0.335)	64477	17.8236	17.82
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	154853	21.2911	21.29
	9 Acrolein	56	1.441	1.441	(0.345)	16111	41.2994	41.29
	10 Acetone	43	1.970	1.966	(0.472)	75792	45.3817	45.38
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	84464	18.7053	18.70
	15 Iodomethane	142	2.026	2.026	(0.485)	222991	40.4860	40.48
	16 Acrylonitrile	53	2.532	2.528	(0.606)	66029	43.1145	43.11
	17 Methylene Chloride	84	2.299	2.299	(0.550)	120639	19.4774	19.47
	18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	301513	20.3998	20.39
	19 Carbon Disulfide	76	2.063	2.067	(0.494)	466440	39.4813	39.48
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	103777	20.5350	20.53
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	578196	44.5638	44.56
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	177259	19.9858	19.98
	24 2-Butanone	43	3.574	3.574	(0.856)	76905	45.1417	45.14
	26 2,2-Dichloropropane	77	3.503	3.507	(0.838)	174926	23.2290	23.22
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	118520	19.2708	19.27
	28 Chloroform	83	3.904	3.900	(0.935)	200779	20.1975	20.19
	29 Bromochloromethane	128	3.791	3.791	(0.908)	62299	18.5007	18.50
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	258273	45.1934	45.19
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.977)	177716	22.5324	22.53
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	156883	25.3212	25.32
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	166375	23.2682	23.26
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	155136	23.4481	23.44
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	305949	50.7356	50.73
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	872700	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	442781	21.2468	21.24
	38 Trichloroethene	130	5.205	5.205	(1.048)	131469	22.2419	22.24
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	162465	20.7728	20.77
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	119749	53.8185	53.81
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	113989	20.5625	20.56
	44 Dibromomethane	93	5.553	5.550	(1.119)	75882	20.1389	20.13
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	199713	45.3525	45.35
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	198763	21.6395	21.63
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	823868	50.0000	
$	48 Toluene-d8	98	6.382	6.386	(0.832)	979100	48.0933	48.09
	50 Toluene	91	6.445	6.442	(0.841)	504336	22.1472	22.14
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	173578	22.7714	22.77
	52 2-Hexanone	43	7.086	7.083	(0.924)	145894	48.6955	48.69
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	94630	20.7138	20.71
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	194962	21.6813	21.68
	55 Dibromochloromethane	129	7.176	7.173	(0.936)	138469	21.0007	21.00
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	116973	24.8266	24.82
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	124710	21.8333	21.83
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	119162	28.2543	28.25
	59 Chlorobenzene	112	7.694	7.690	(1.003)	353547	21.8887	21.88
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	131209	21.8284	21.82
	61 Ethylbenzene	106	7.799	7.799	(1.017)	180425	23.7138	23.71
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	461222	47.0243	47.02
	63 o-Xylene	106	8.241	8.241	(1.075)	222271	22.9605	22.96
	64 Styrene	104	8.260	8.256	(1.077)	378989	23.3572	23.35
	66 Bromoform	173	8.410	8.410	(1.097)	97153	21.2686	21.26

67 Isopropylbenzene	105	8.560	8.560 (1.116)	574786	25.9890	25.98
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	156473	21.2095	21.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	386427	50.7801	50.78
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	462872	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	116712	22.6606	22.66(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	693479	27.0478	27.04
	74 Bromobenzene	156	8.803	8.803	(0.911)	169211	22.2819	22.28
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	504775	26.6508	26.65
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	423017	25.1428	25.14
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	493524	25.7314	25.73
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	422004	27.2192	27.21
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	514275	25.8052	25.80
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	597762	28.9775	28.97
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	530388	28.6927	28.69
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	310849	24.6618	24.66
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	320708	23.3168	23.31
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	483146	27.9327	27.93
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	306509	23.6117	23.61
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	27762	23.5862	23.58
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	234647	28.6423	28.64
	91 Hexachlorobutadiene	225	11.476	11.480	(1.188)	123867	34.2291	34.22
	92 Naphthalene	128	11.544	11.540	(1.195)	480316	25.7687	25.76
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	214272	27.3093	27.30
M	94 1,2-Dichloroethylene (total)	96				222297	39.8058	39.80
M	95 Xylenes (total)	106				683493	69.9848	69.98
	141 Cyclohexane	56	4.118	4.121	(0.986)	162532	27.6791	27.67
	138 Freon TF	101	1.910	1.910	(0.457)	99600	22.8053	22.80
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	266715	24.9673	24.96
	146 Methyl Acetate	43	2.228	2.228	(0.533)	54090	20.2040	20.20
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	201447	488.983	488.98
	149 Isopropyl Alcohol	45	2.090	2.086	(0.500)	107268	498.570	498.56

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 02-FEB-2023 15:10
Client ID: WLCSW-230202
Sample Info: WLCSW-230202;WLCSW-230202;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020205.D
Inj Date : 02-FEB-2023 15:10
InstruID : voa6.i
LabSampID : VLCSW-230202

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
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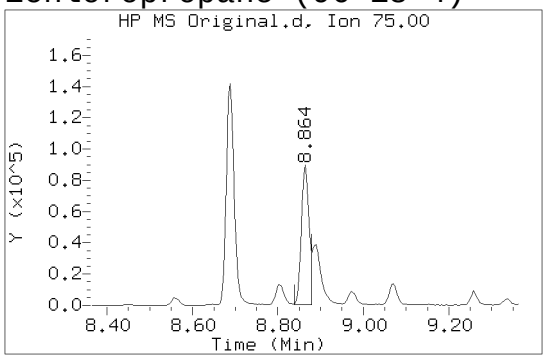
AREA
116712
HEIGHT
89632
09-Feb-2023
15:23
Kori
Bagsby



AFTER

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HEIGHT
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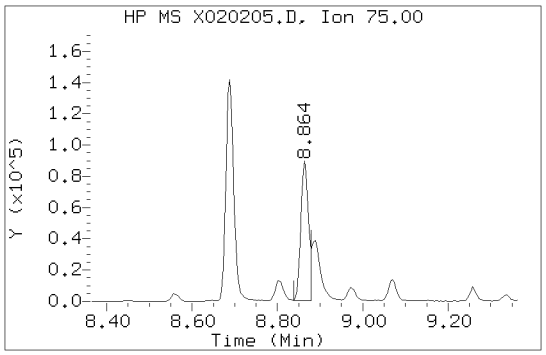
09-Feb-2023
15:23
Kori
Bagsby



BEFORE

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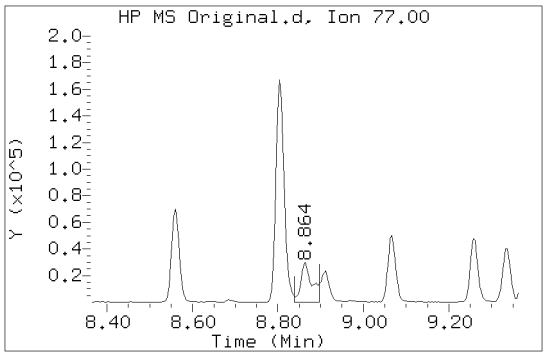
09-Feb-2023
15:23
Kori
Bagsby



AFTER

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HEIGHT
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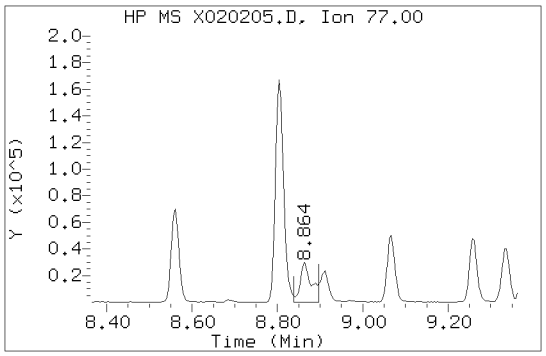
09-Feb-2023
15:23
Kori
Bagsby



Chloroprene (126-99-8)

Reason Code:

BEFORE

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AREA
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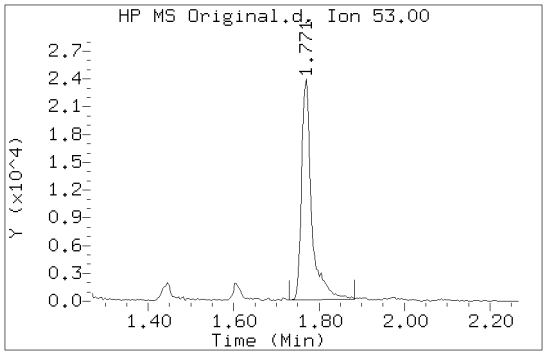
HEIGHT
23856
09-Feb-2023
15:23
Kori
Bagsby



AFTER

MASS
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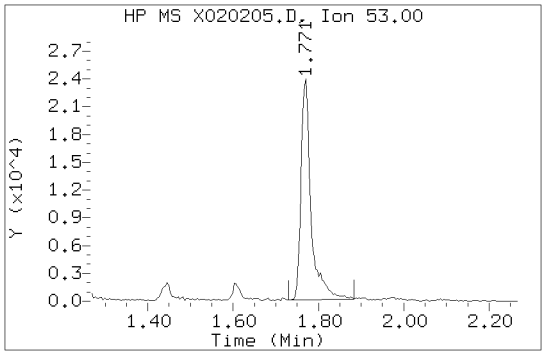
AREA
40311
HEIGHT
23856
09-Feb-2023
15:23
Kori
Bagsby



BEFORE

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AREA
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HEIGHT
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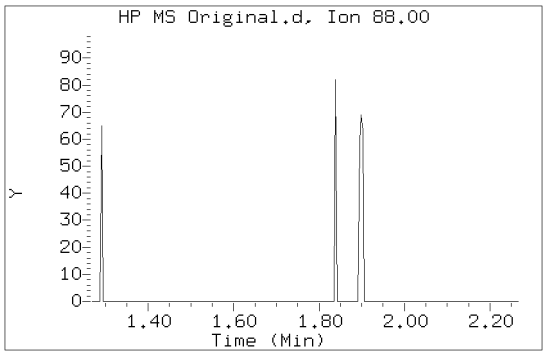
09-Feb-2023
15:23
Kori
Bagsby



AFTER

MASS
88
AREA
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HEIGHT
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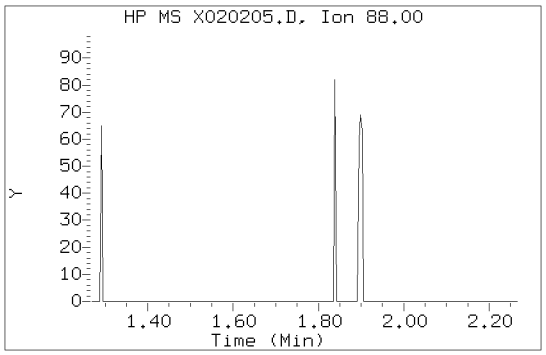
09-Feb-2023
15:23
Kori
Bagsby



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020208.D Page 1
Report Date: 09-Feb-2023 15:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020208.D
Lab Smp Id: VBLKW-230202 Client Smp ID: VBLKW-230202
Inj Date : 02-FEB-2023 16:13
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230202;VBLKW-230202;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

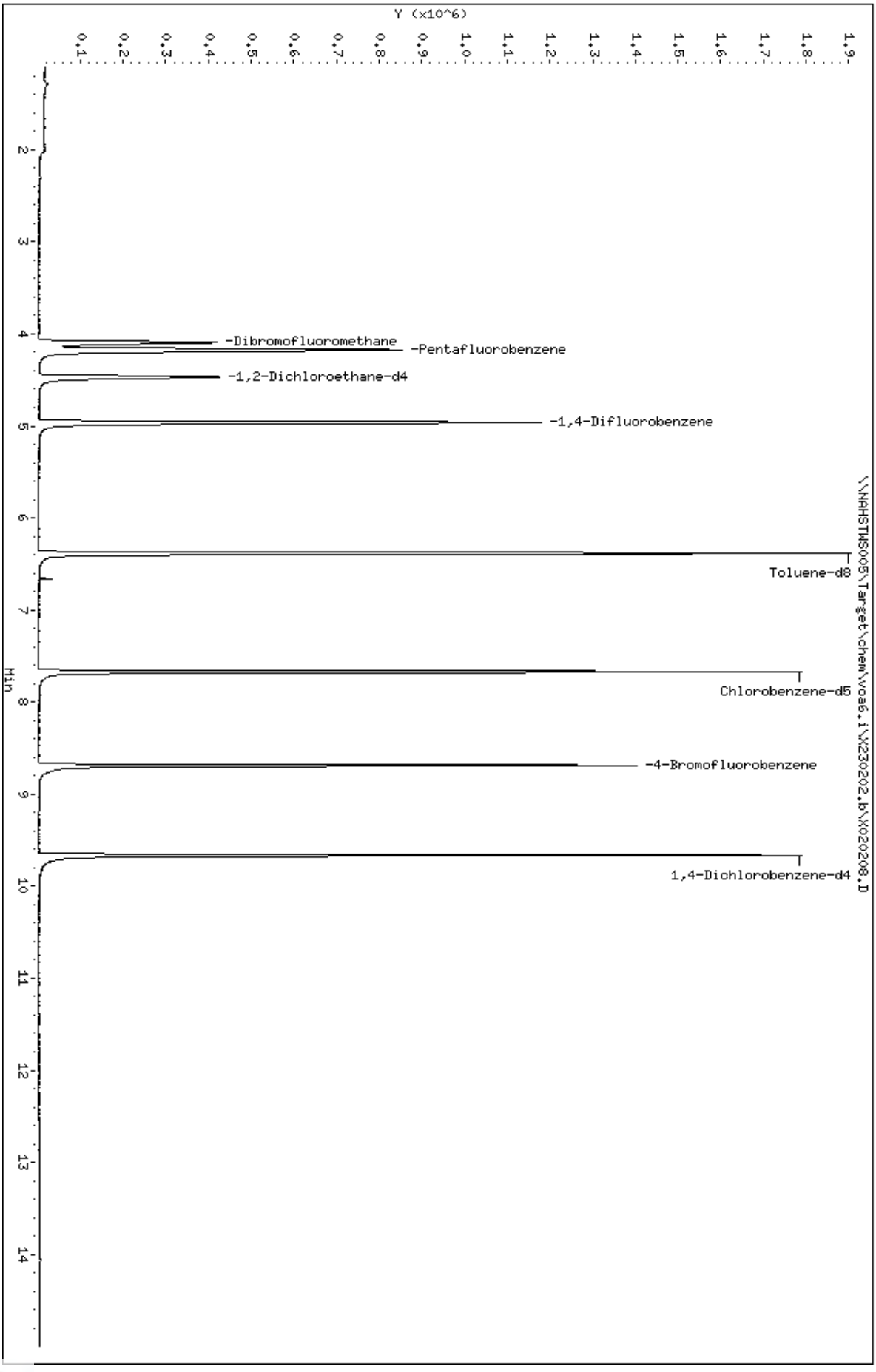
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.174	4.174	(1.000)	709559	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	306011	44.8977	44.89
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.071)	346070	48.1344	48.13
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	999005	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	876582	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1144704	52.8464	52.84
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	416641	51.4572	51.45
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	449203	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020208.D
Date : 02-FEB-2023 16:13
Client ID: VBLKW-230202
Sample Info: VBLKW-230202;VBLKW-230202;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18



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Inj Date : 02-FEB-2023 16:13
InstruID : voa6.i
LabSampID : VBLKW-230202

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020210.D Page 1
Report Date: 13-Feb-2023 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020210.D
Lab Smp Id: HS23011294-08 Client Smp ID: HS23011294-08
Inj Date : 02-FEB-2023 16:55
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-08;HS23011294-08;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.174	(1.000)	720815	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	302089	43.6255	43.62
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	339447	46.4853	46.48
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	999944	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	897475	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1147573	51.7455	51.74
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	429729	51.8376	51.83
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	468593	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020210.D

Date : 02-FEB-2023 16:55

Client ID: HS23011294-08

Instrument: voa6.i

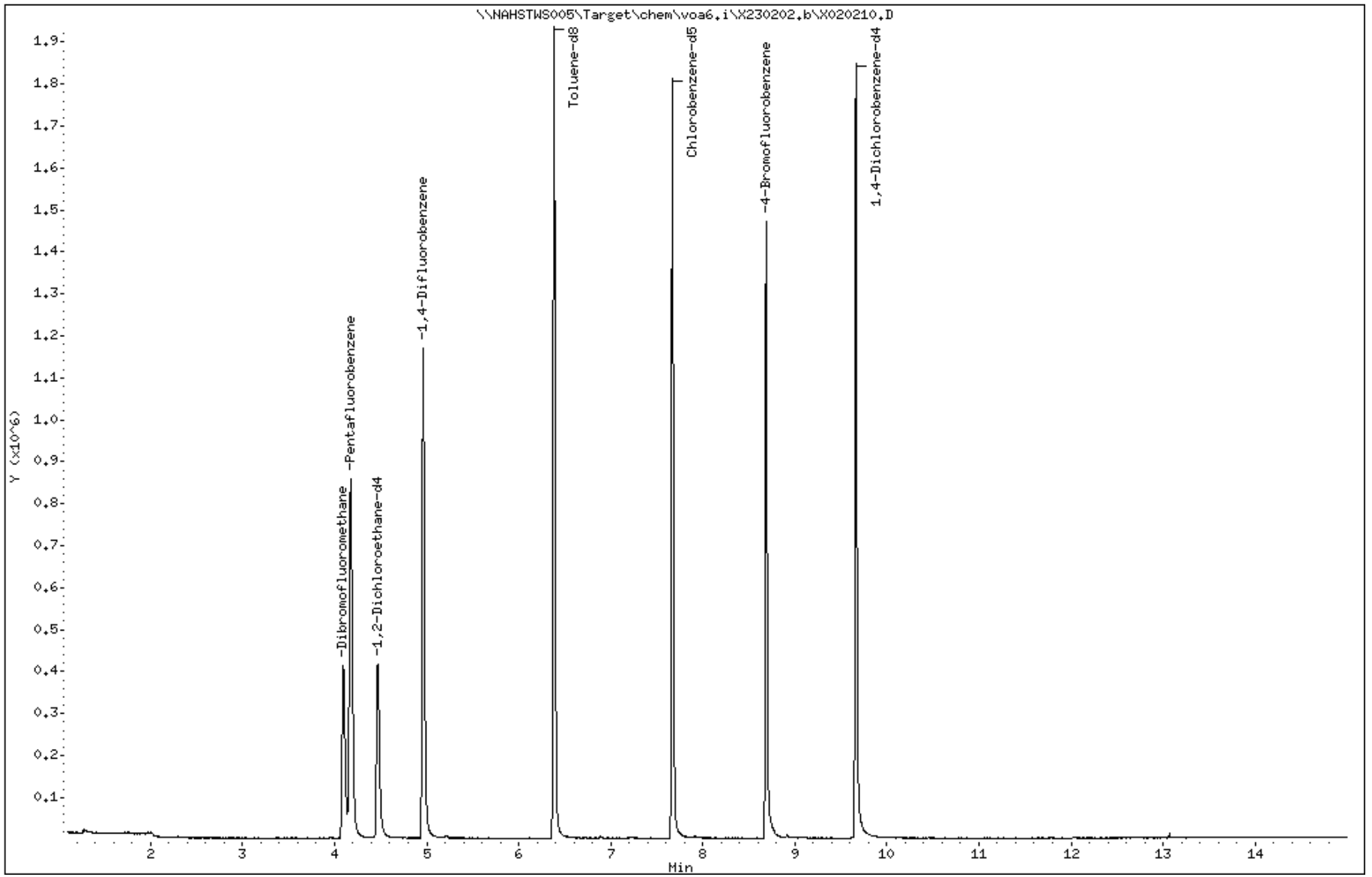
Sample Info: HS23011294-08;HS23011294-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020210.D
Inj Date : 02-FEB-2023 16:55
InstruID : voa6.i
LabSampID : HS23011294-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020211.D Page 1
Report Date: 13-Feb-2023 14:52

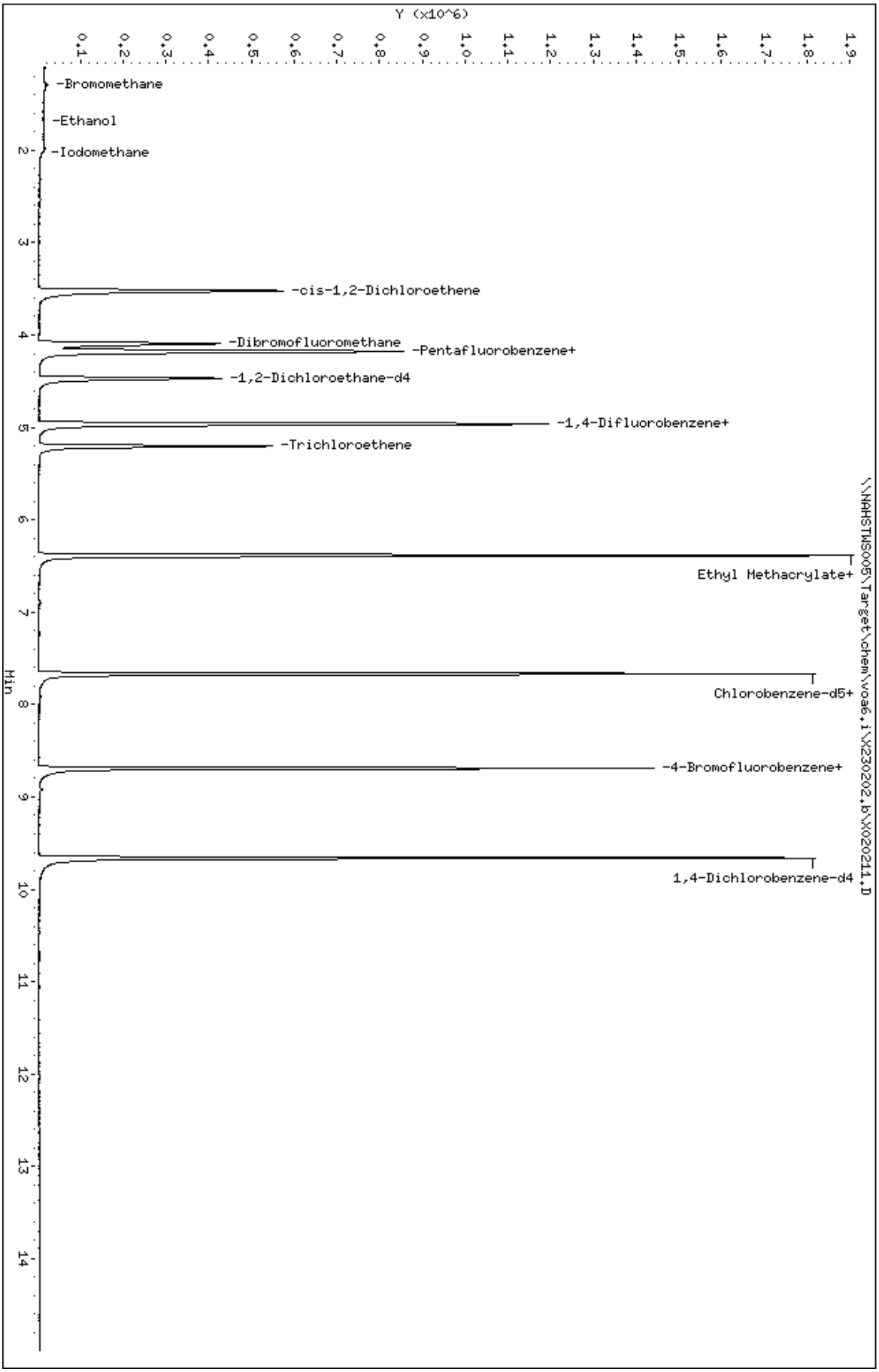
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020211.D
Lab Smp Id: HS23011294-10 Client Smp ID: HS23011294-10
Inj Date : 02-FEB-2023 17:17
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-10;HS23011294-10;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0474-dod.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	4.174	4.174	(1.000)	714892	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	307214	44.7374	44.73
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.070)	351740	48.5557	48.55
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	999694	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	893952	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1151980	52.1489	52.14
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	428982	51.9513	51.95
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	469382	50.0000	
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	323782	43.8138	43.81
38 Trichloroethene	130	5.205	5.205	(1.049)	184931	27.3122	27.31



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230202.b\X020211.D
Date : 02-FEB-2023 17:17
Client ID: HS230111294-10
Sample Info: HS230111294-10;HS230111294-10;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020211.D

Date : 02-FEB-2023 17:17

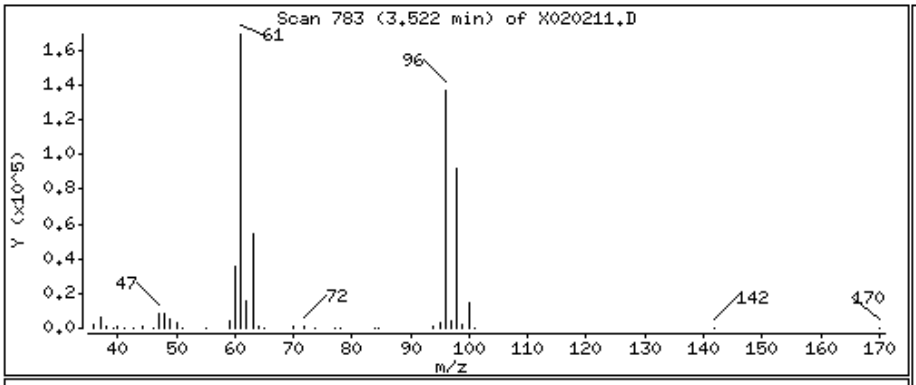
Client ID: HS23011294-10 Instrument: voa6.i

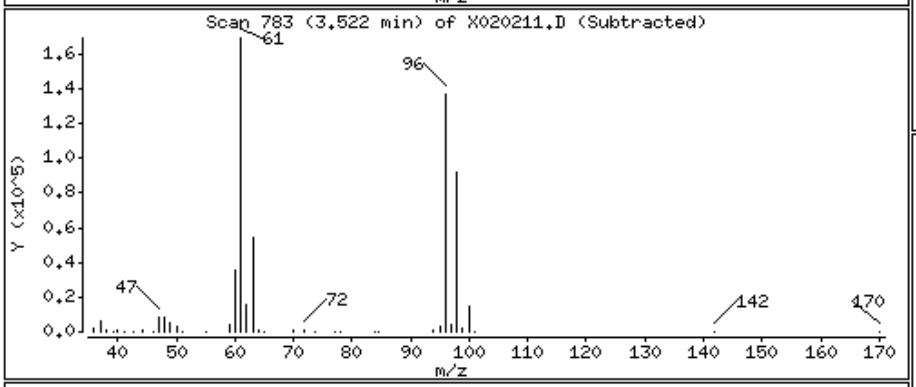
Sample Info: HS23011294-10;HS23011294-10;;;

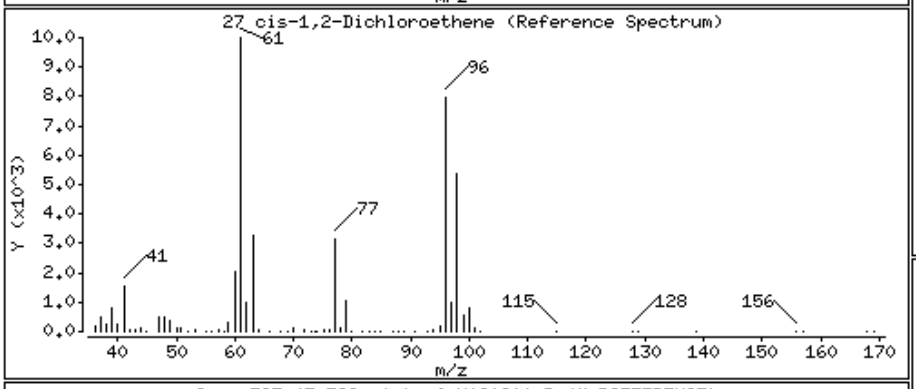
Purge Volume: 5.0 Operator: PC

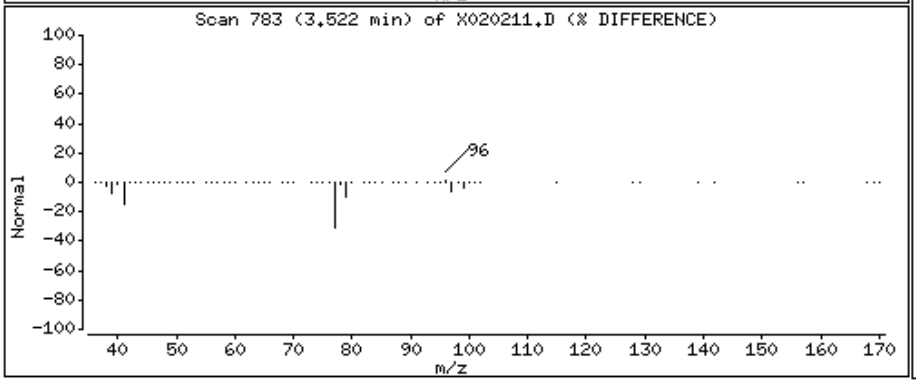
Column phase: DB624 Column diameter: 0.18

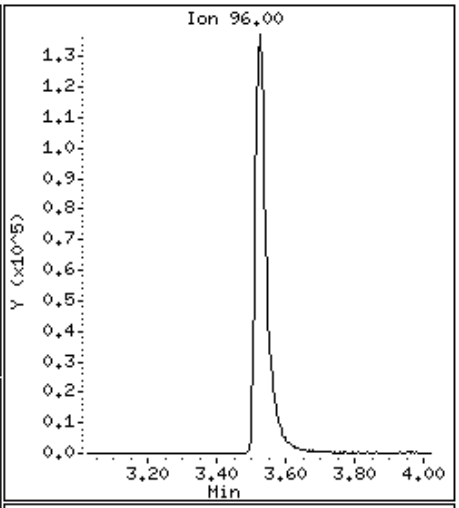
27 cis-1,2-Dichloroethene Concentration: 43.81 ug/l

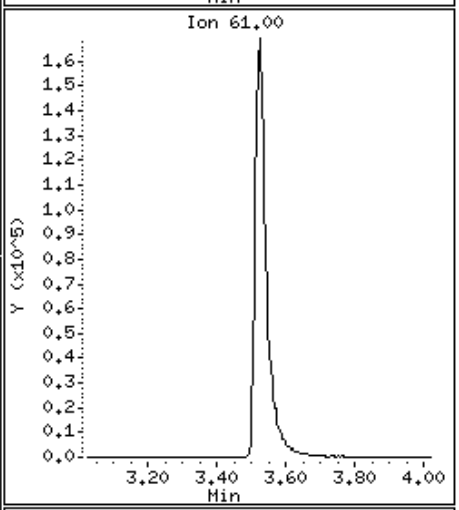


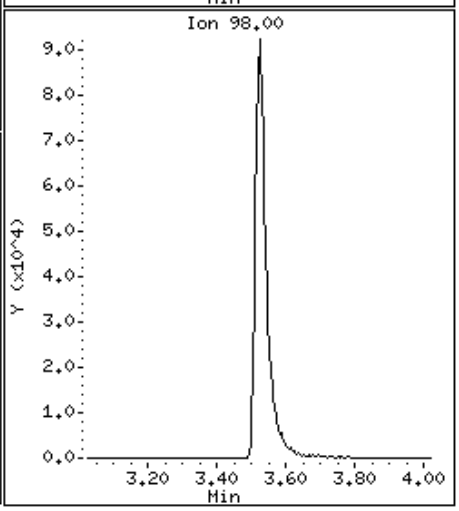












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020211.D Page 3

Date : 02-FEB-2023 17:17

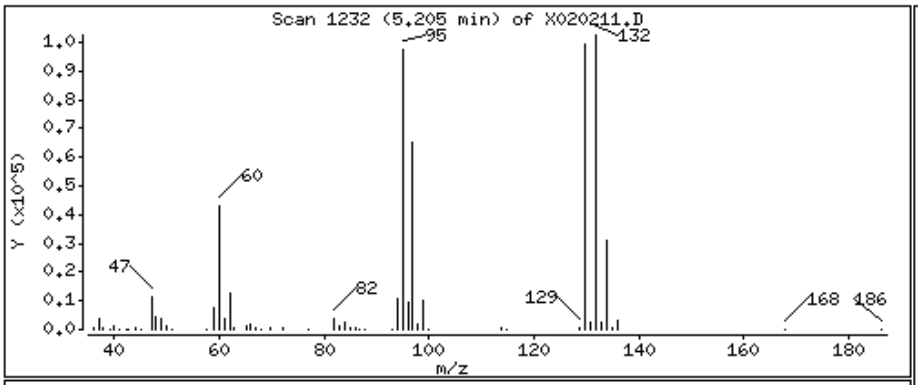
Client ID: HS23011294-10 Instrument: voa6.i

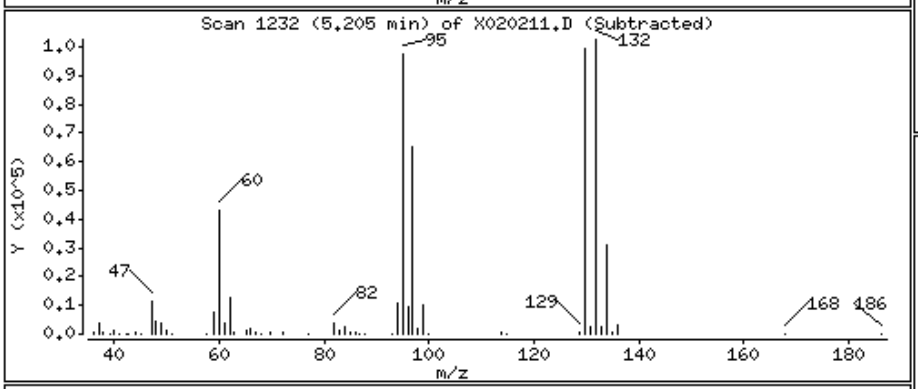
Sample Info: HS23011294-10;HS23011294-10;;;

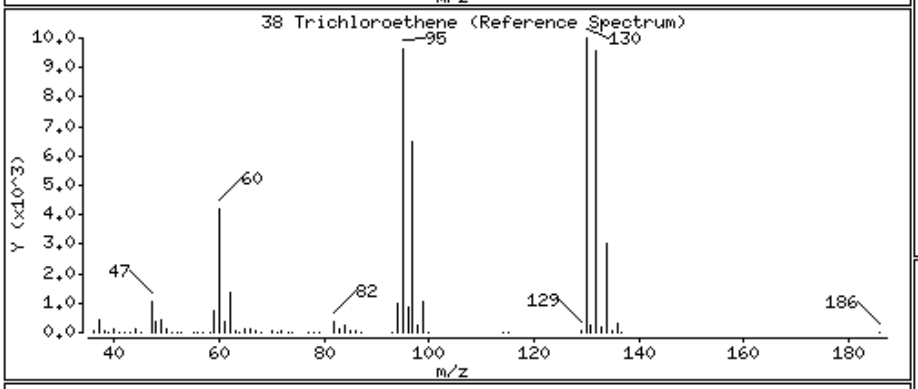
Purge Volume: 5.0 Operator: PC

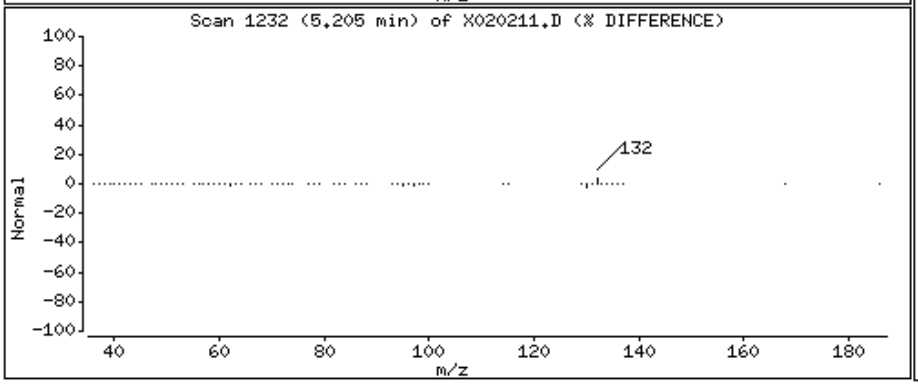
Column phase: DB624 Column diameter: 0.18

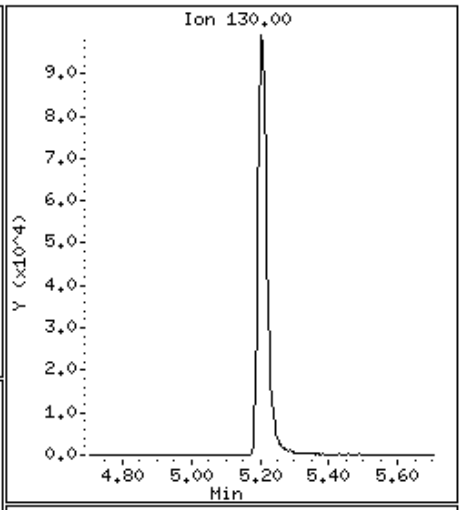
38 Trichloroethene Concentration: 27.31 ug/l

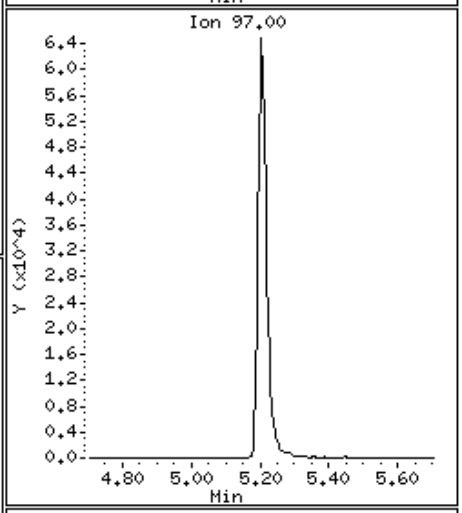


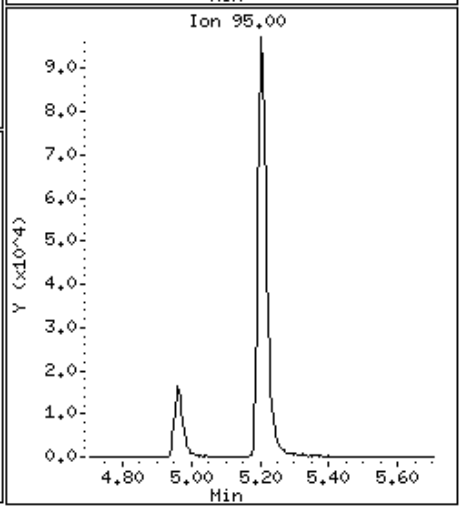












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020211.D
Inj Date : 02-FEB-2023 17:17
InstruID : voa6.i
LabSampID : HS23011294-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D Page 1
Report Date: 13-Feb-2023 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D
Lab Smp Id: HS23011294-01 Client Smp ID: HS23011294-01
Inj Date : 02-FEB-2023 17:38
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-01;HS23011294-01;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 12
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

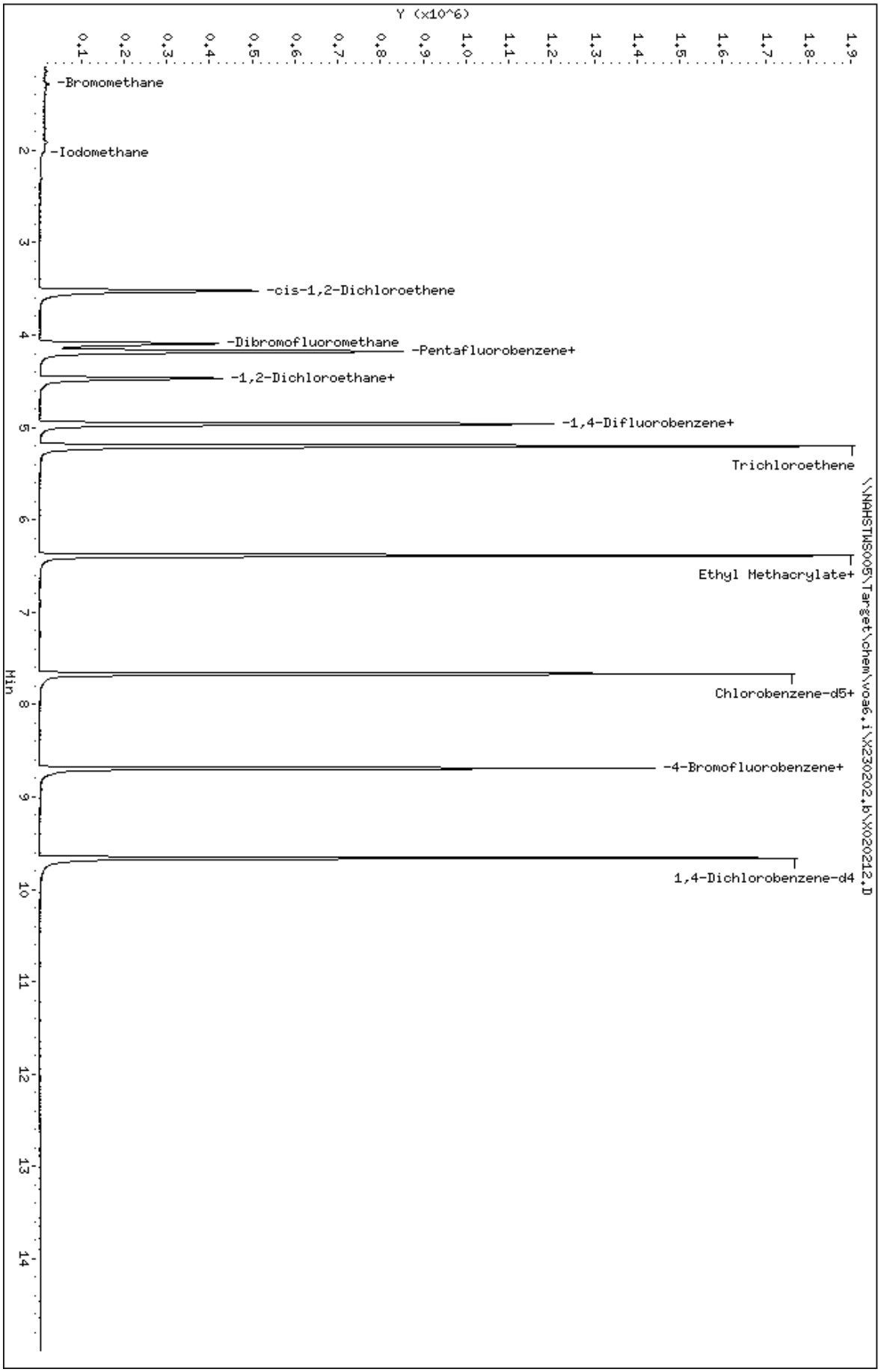
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.174	(1.000)	706867	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	305888	45.0512	45.05
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	351160	49.0233	49.02
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	997560	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	877478	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1145182	52.8145	52.81
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	417144	51.4667	51.46
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	457058	50.0000	
5 Vinyl Chloride	62	1.141	1.141	(0.273)	4685	0.75872	3.79(a)
27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	295318	40.4158	202.07
33 1,2-Dichloroethane	62	4.560	4.552	(0.919)	5771	0.70608	3.53(a)
38 Trichloroethene	130	5.201	5.205	(1.048)	648547	95.9880	479.93

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D
Date : 02-FEB-2023 17:38
Client ID: HS230411294-01
Sample Info: HS230411294-01;HS230411294-01;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D

Date : 02-FEB-2023 17:38

Client ID: HS23011294-01

Instrument: voa6.i

Sample Info: HS23011294-01;HS23011294-01;;;

Purge Volume: 5.0

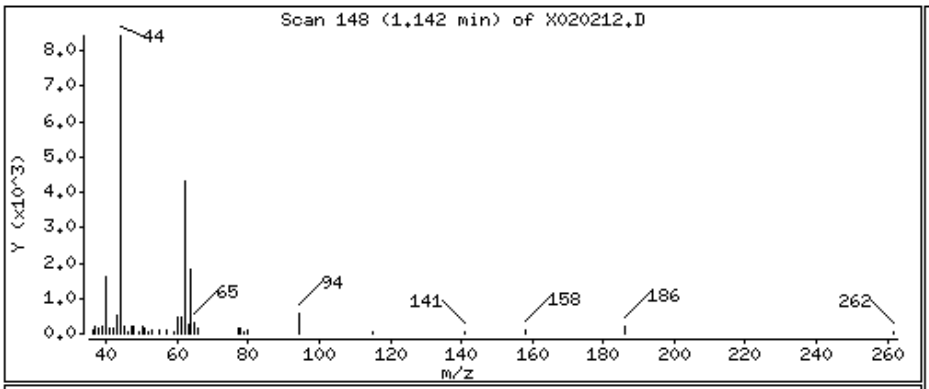
Operator: PC

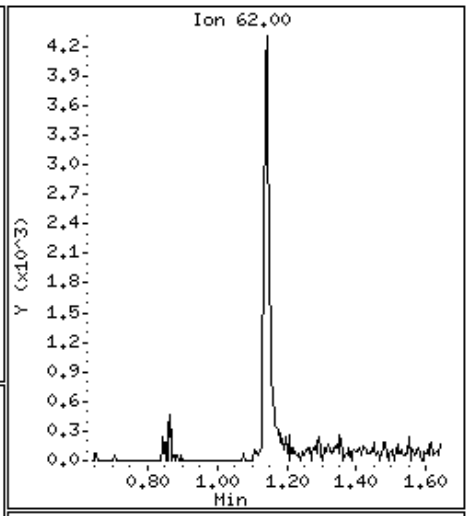
Column phase: DB624

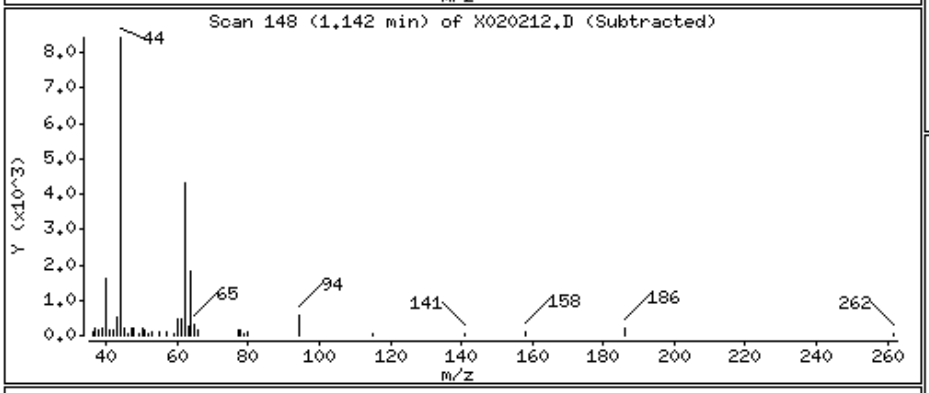
Column diameter: 0.18

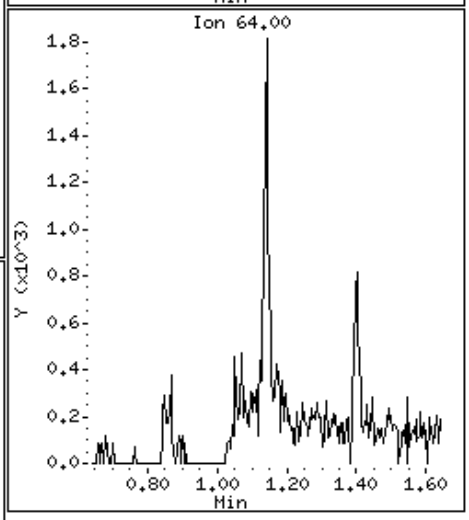
5 Vinyl Chloride

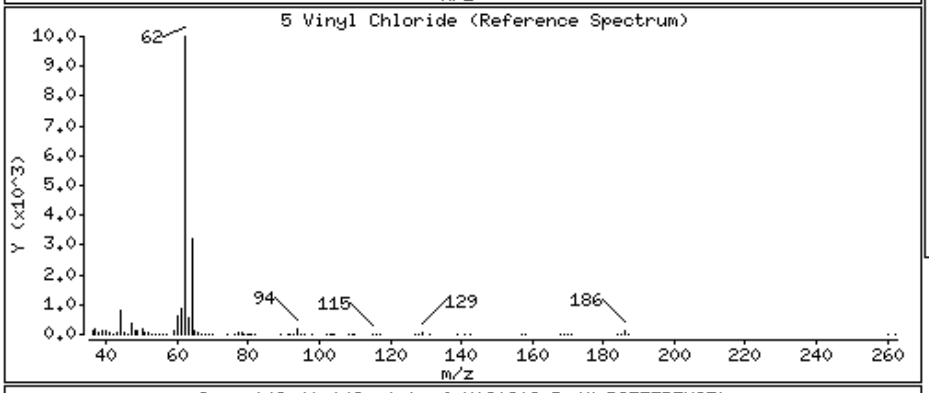
Concentration: 3.79 ug/l

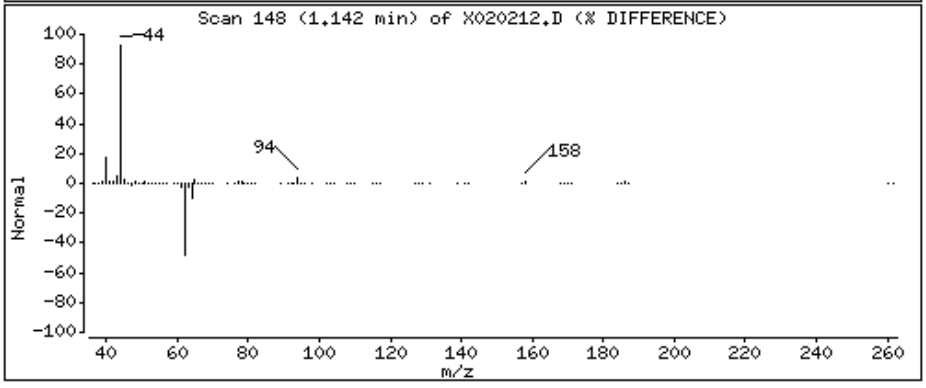












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D Page 3

Date : 02-FEB-2023 17:38

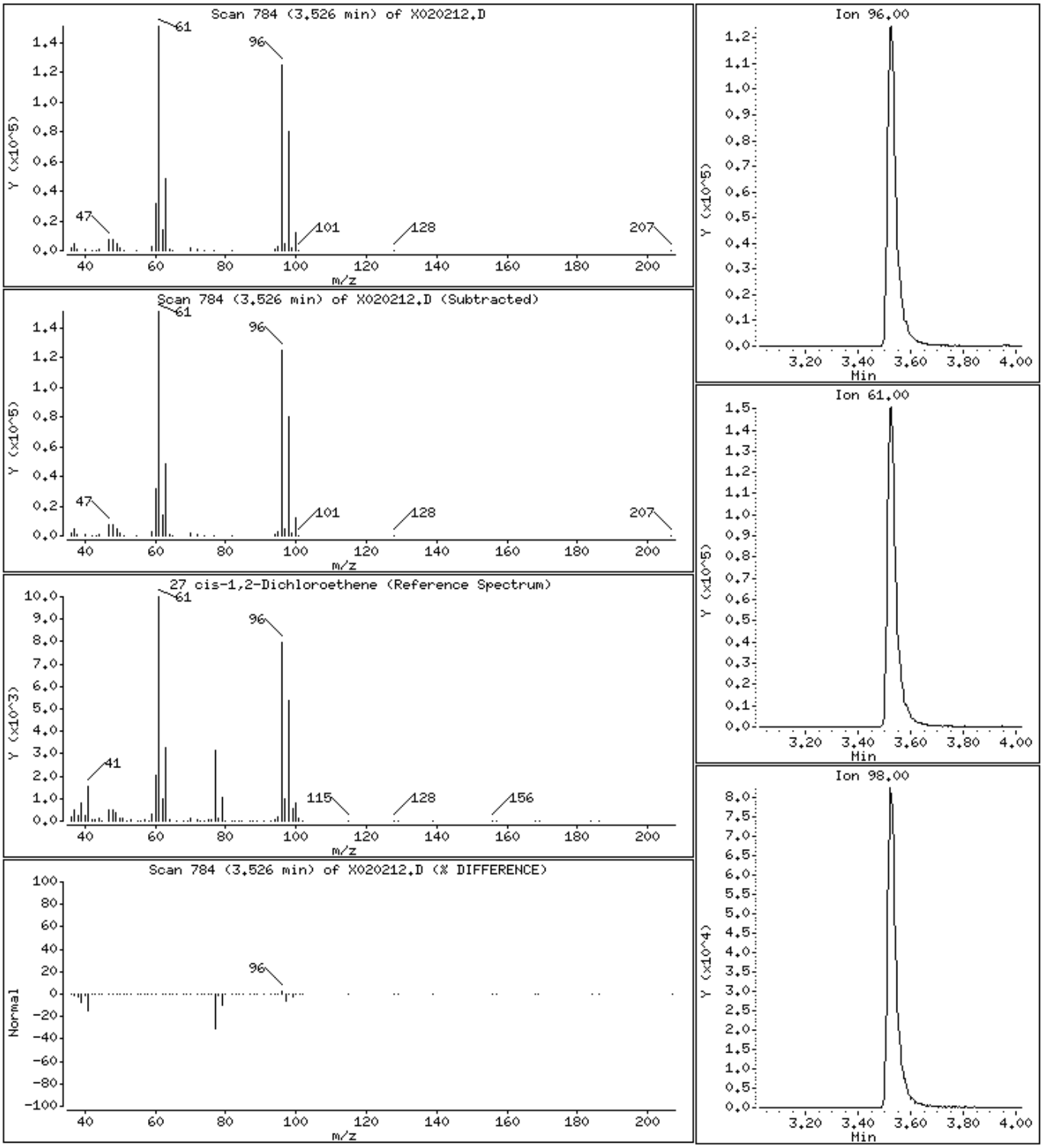
Client ID: HS23011294-01 Instrument: voa6.i

Sample Info: HS23011294-01;HS23011294-01;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 202.07 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D Page 4

Date : 02-FEB-2023 17:38

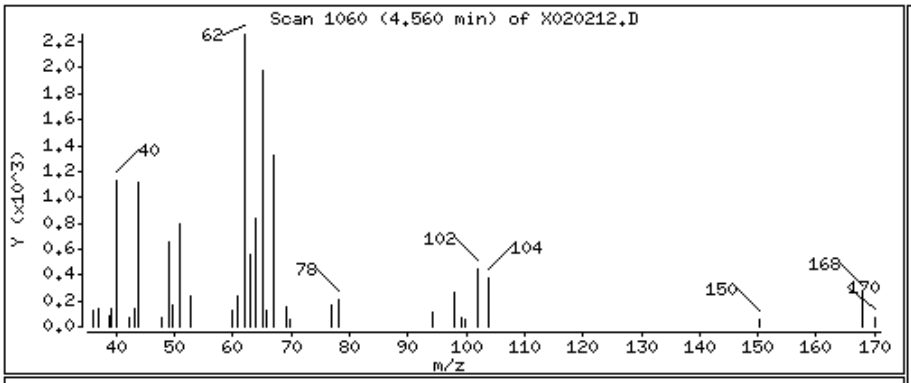
Client ID: HS23011294-01 Instrument: voa6.i

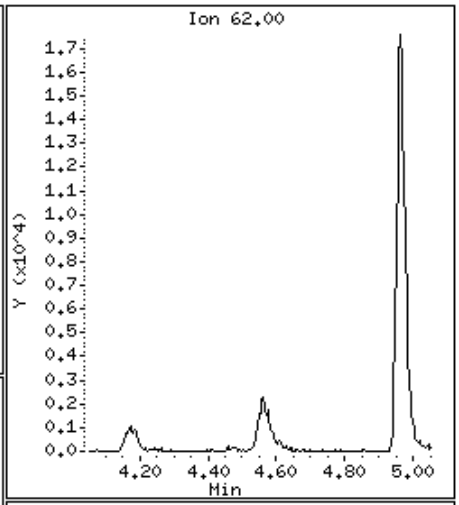
Sample Info: HS23011294-01;HS23011294-01;;;

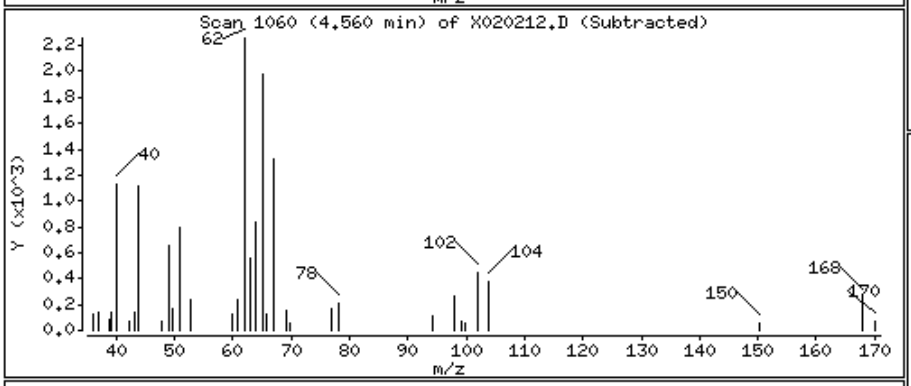
Purge Volume: 5.0 Operator: PC

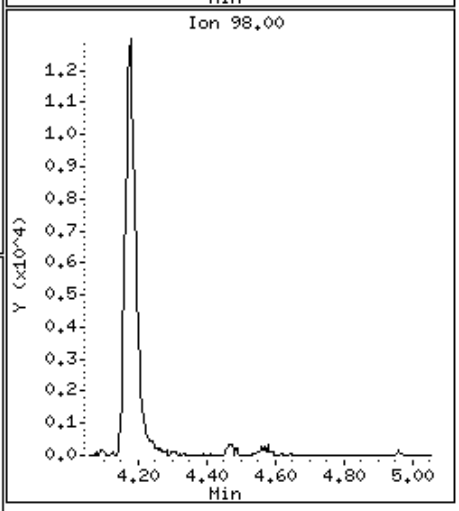
Column phase: DB624 Column diameter: 0.18

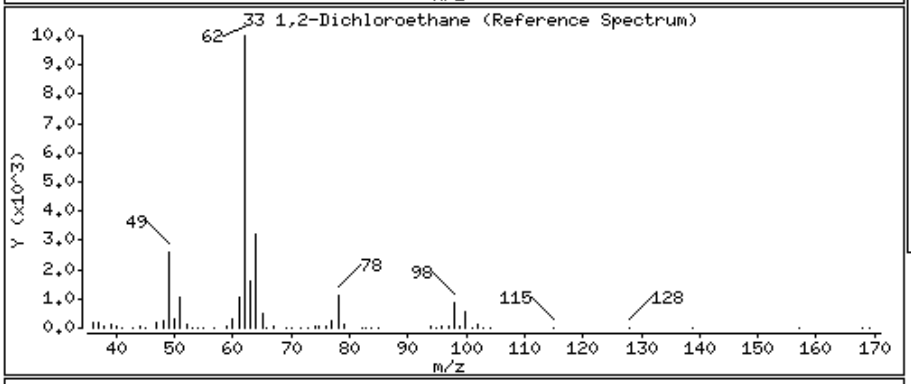
33 1,2-Dichloroethane Concentration: 3.53 ug/l

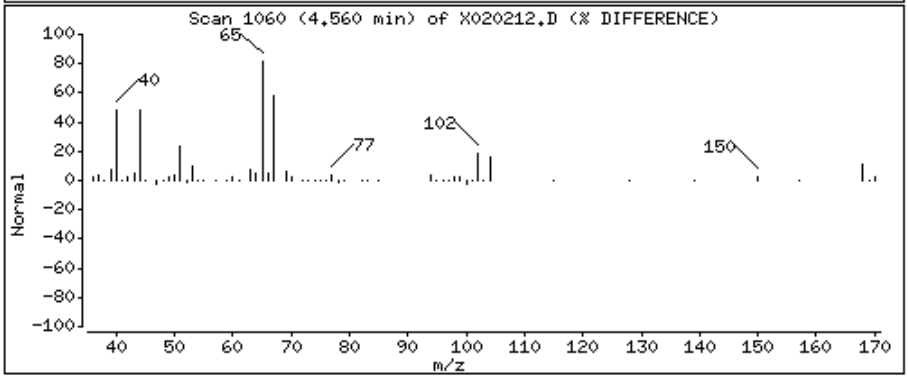












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D

Date : 02-FEB-2023 17:38

Client ID: HS23011294-01

Instrument: voa6.i

Sample Info: HS23011294-01;HS23011294-01;;;

Purge Volume: 5.0

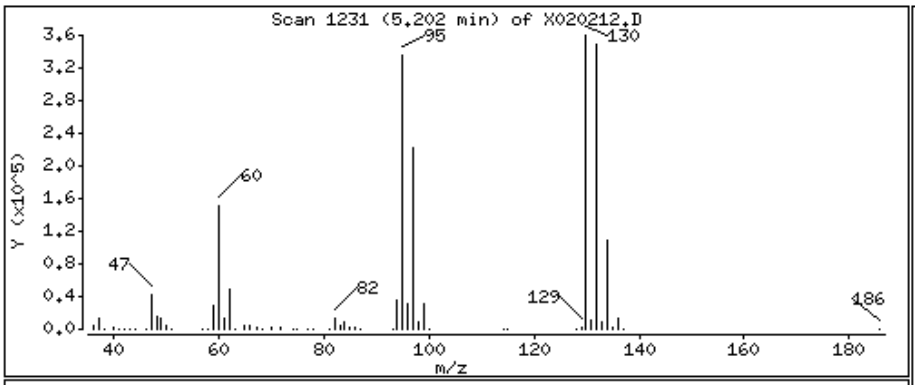
Operator: PC

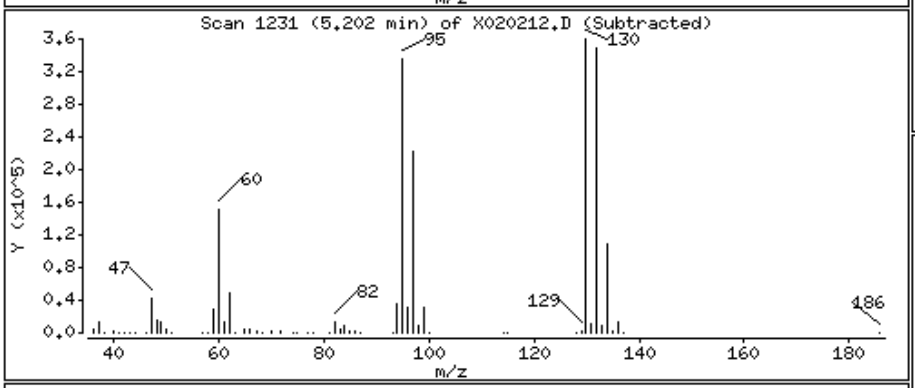
Column phase: DB624

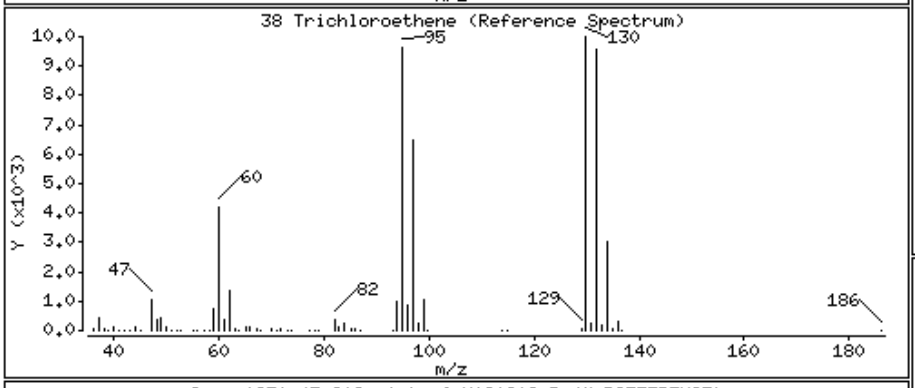
Column diameter: 0.18

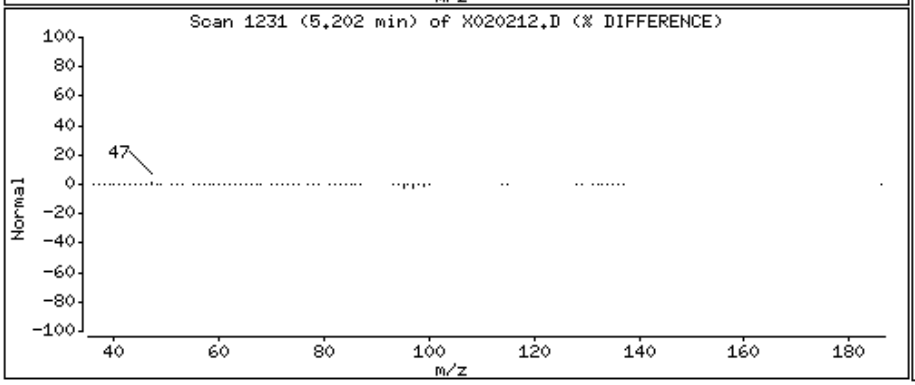
38 Trichloroethene

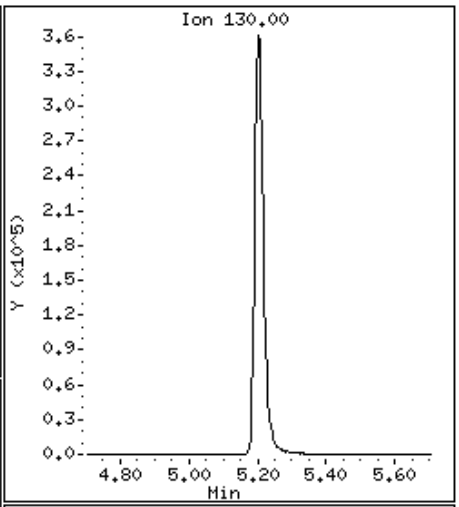
Concentration: 479.93 ug/l

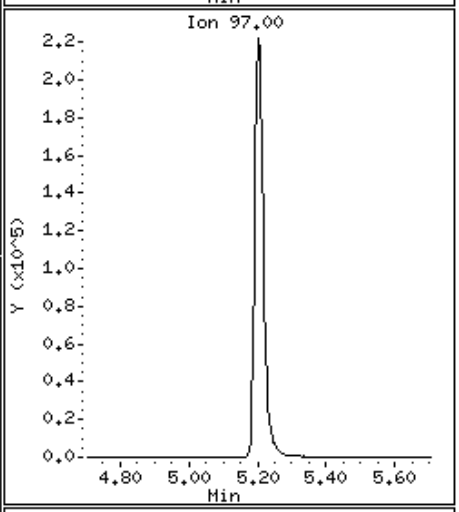


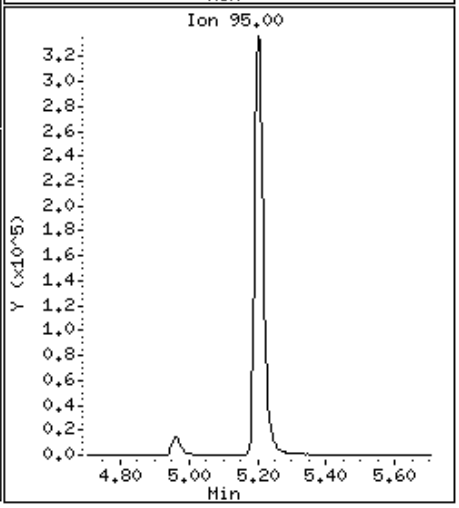












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020212.D
Inj Date : 02-FEB-2023 17:38
InstruID : voa6.i
LabSampID : HS23011294-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020214.D Page 1
Report Date: 13-Feb-2023 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020214.D
Lab Smp Id: HS23011294-09 Client Smp ID: HS23011294-09
Inj Date : 02-FEB-2023 18:20
Operator : PC Inst ID: voa6.i
Smp Info : HS23011294-09;HS23011294-09;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\8260W.m
Meth Date : 09-Feb-2023 15:23 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 14
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 0474-dod.sub
Target Version: 4.14
Processing Host: NAHSTW7056

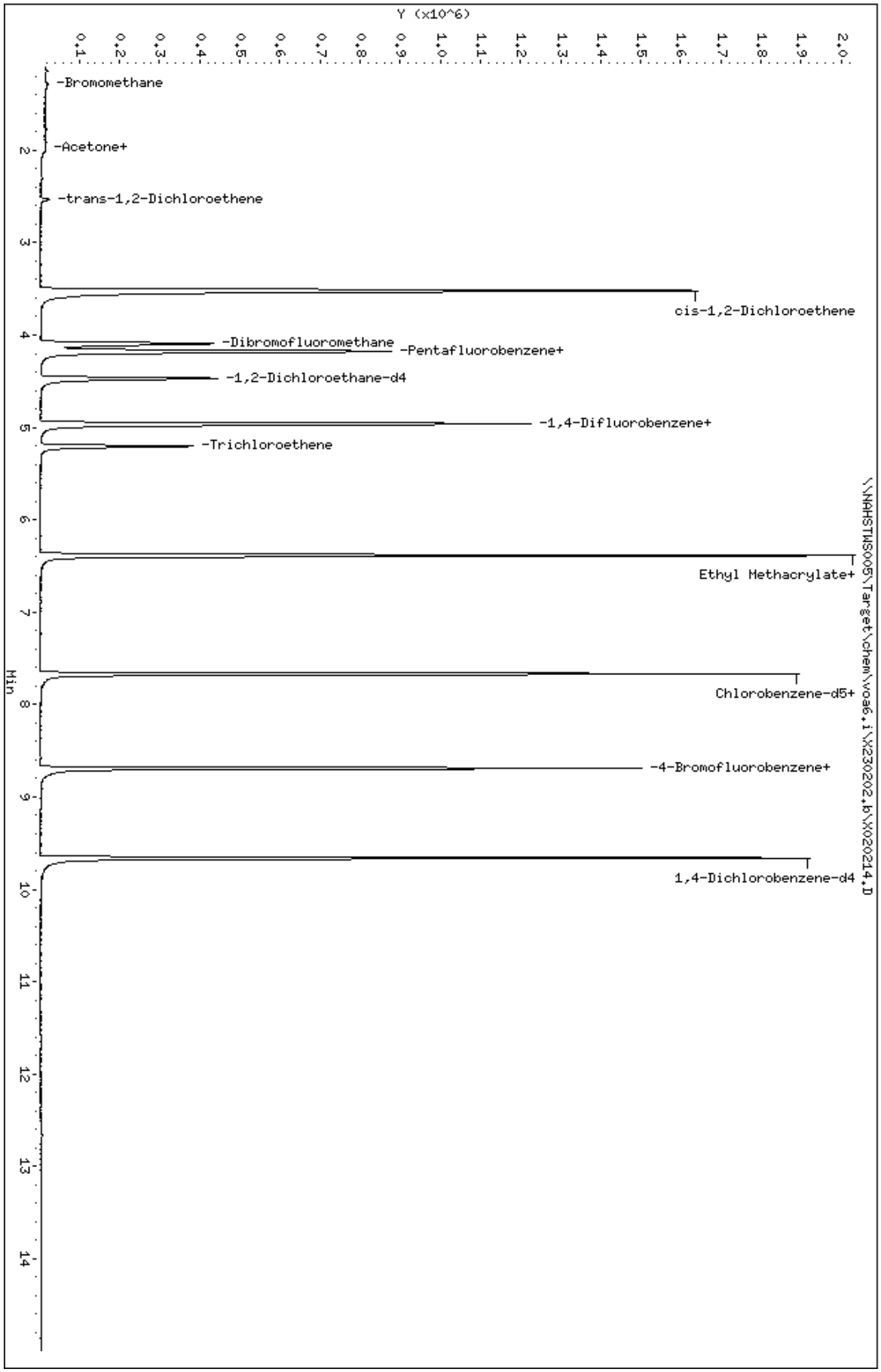
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.174	(1.000)	736440	50.0000	
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	319124	45.1134	45.11
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	365871	49.0259	49.02
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	1039640	50.0000	
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	937727	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1198369	51.7165	51.71
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	440371	50.8423	50.84
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	491933	50.0000	
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	4661	0.72452	3.62(a)
	27 cis-1,2-Dichloroethene	96	3.521	3.522	(0.843)	922848	121.225	606.12
	38 Trichloroethene	130	5.205	5.205	(1.049)	133527	18.9627	94.81
	20 trans-1,2-Dichloroethene	96	2.532	2.524	(0.606)	10041	1.60518	8.02(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020214.D
Date : 02-FEB-2023 18:20
Client ID: HS230411294-09
Sample Info: HS230411294-09;HS230411294-09;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020214.D Page 2

Date : 02-FEB-2023 18:20

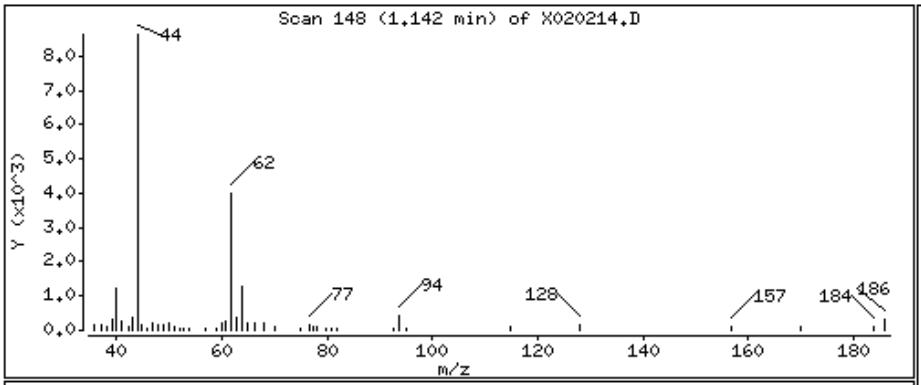
Client ID: HS23011294-09 Instrument: voa6.i

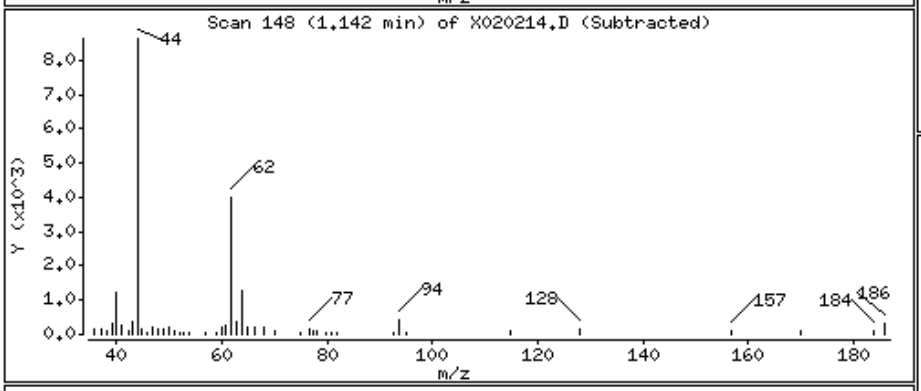
Sample Info: HS23011294-09;HS23011294-09;;;

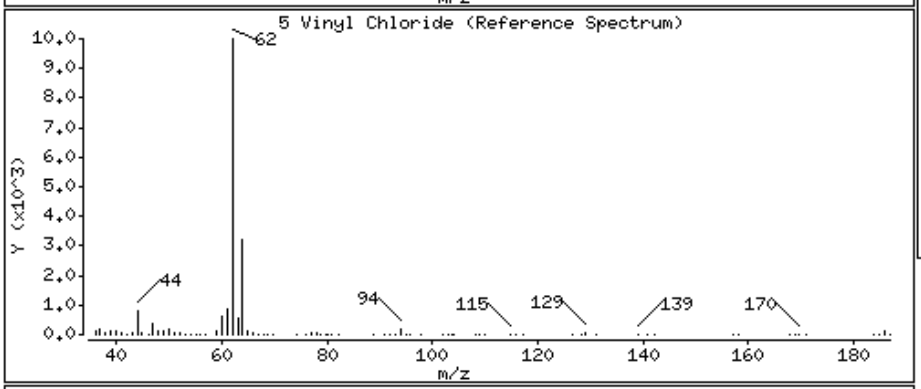
Purge Volume: 5.0 Operator: PC

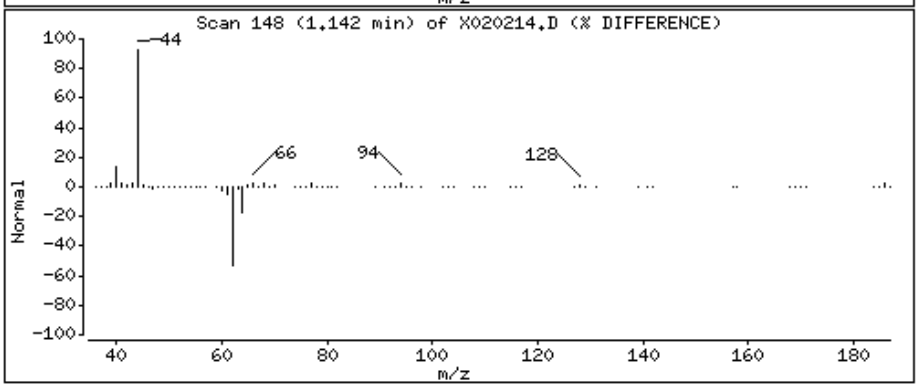
Column phase: DB624 Column diameter: 0.18

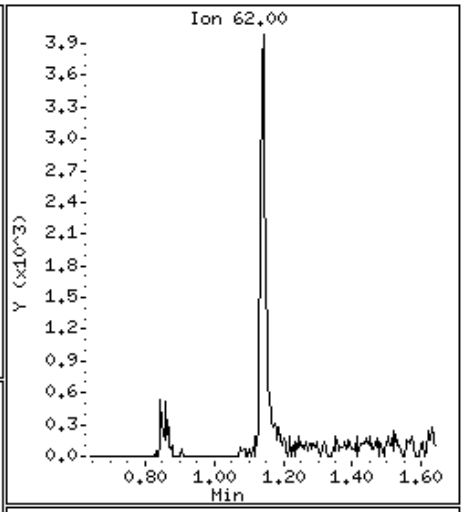
5 Vinyl Chloride Concentration: 3.62 ug/l

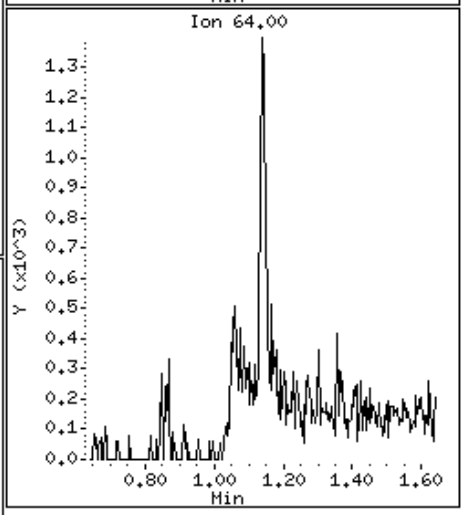












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020214.D Page 3

Date : 02-FEB-2023 18:20

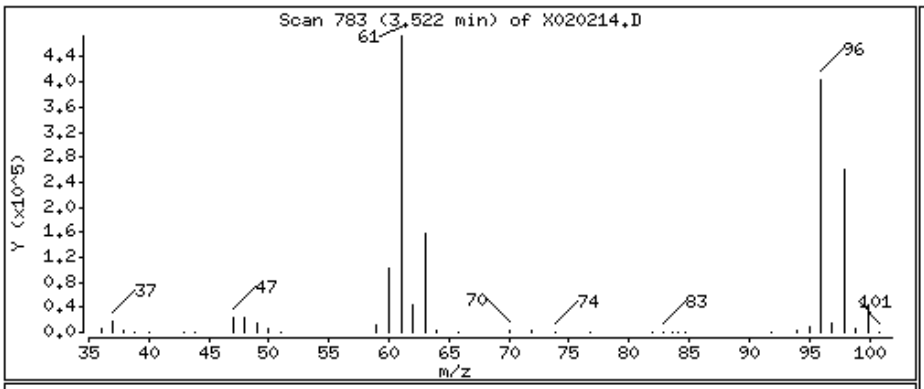
Client ID: HS23011294-09 Instrument: voa6.i

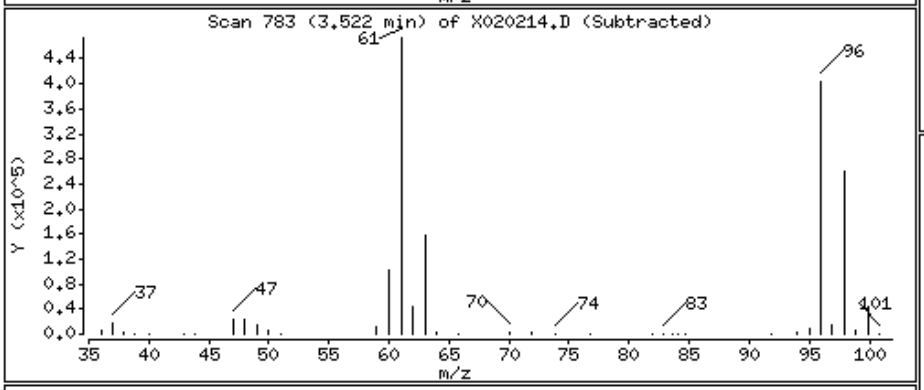
Sample Info: HS23011294-09;HS23011294-09;;;

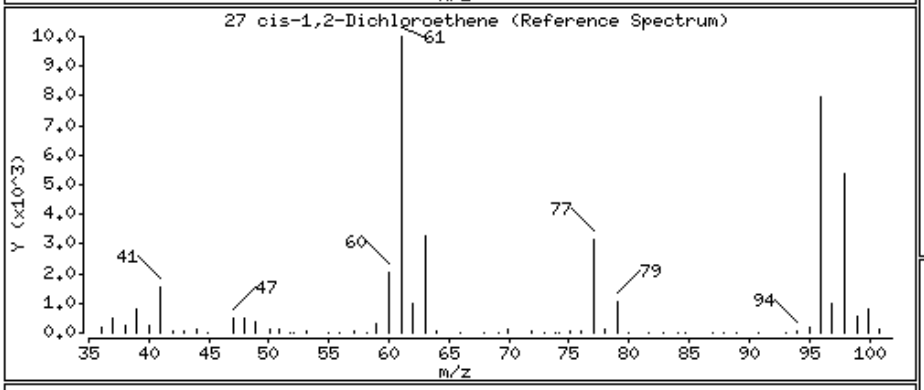
Purge Volume: 5.0 Operator: PC

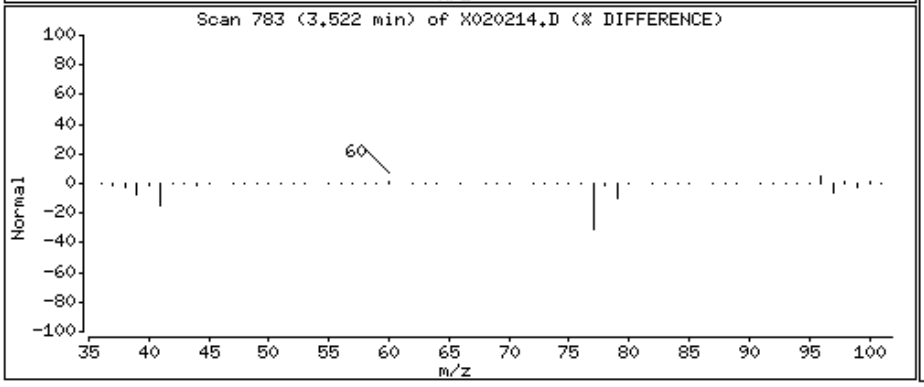
Column phase: DB624 Column diameter: 0.18

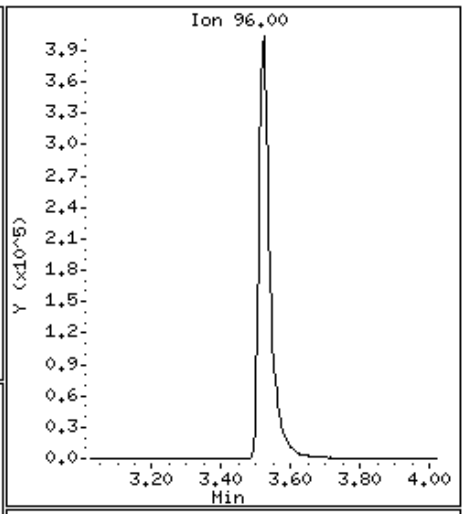
27 cis-1,2-Dichloroethene Concentration: 606.12 ug/l

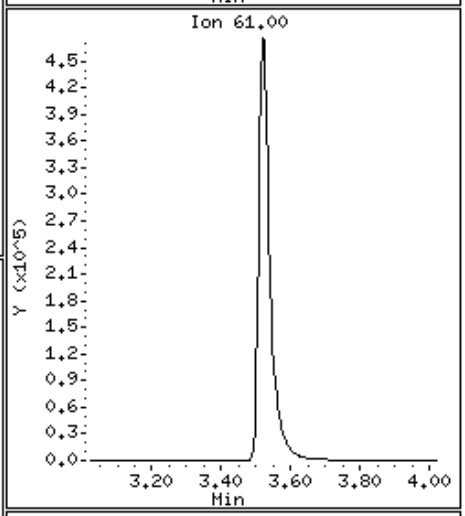


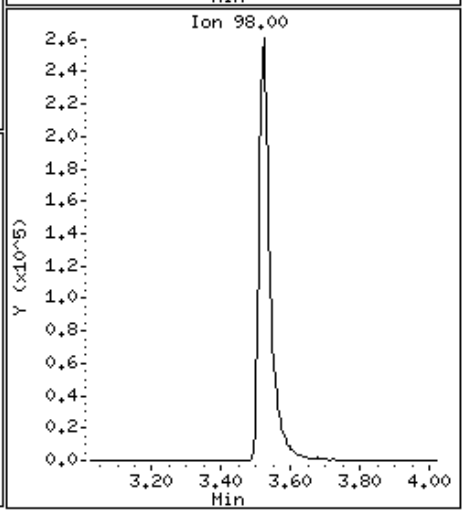












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020214.D Page 4

Date : 02-FEB-2023 18:20

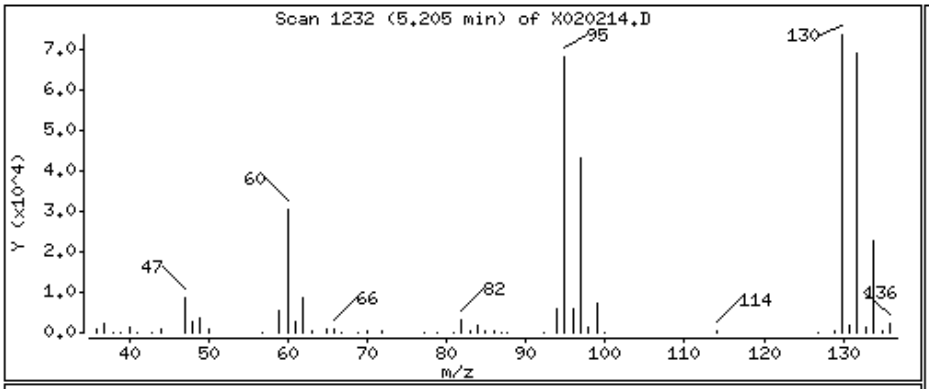
Client ID: HS23011294-09 Instrument: voa6.i

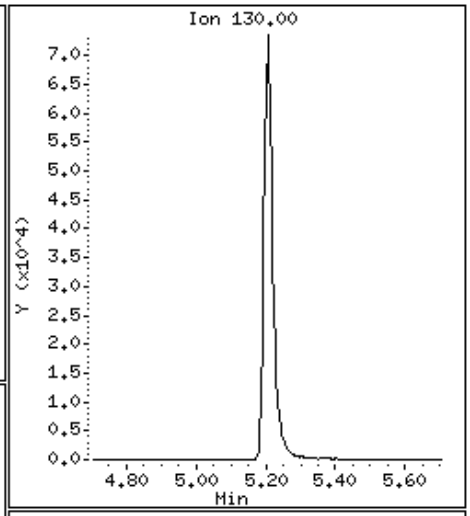
Sample Info: HS23011294-09;HS23011294-09;;;

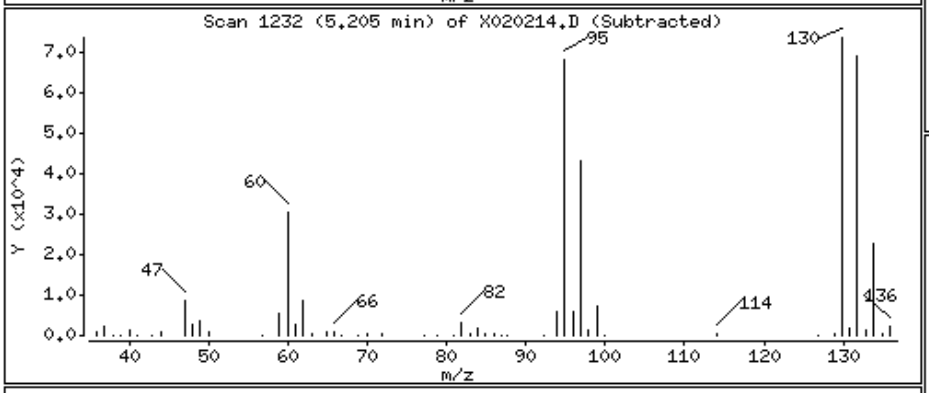
Purge Volume: 5.0 Operator: PC

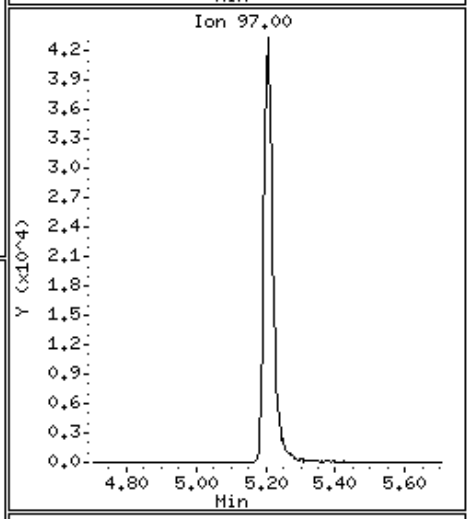
Column phase: DB624 Column diameter: 0.18

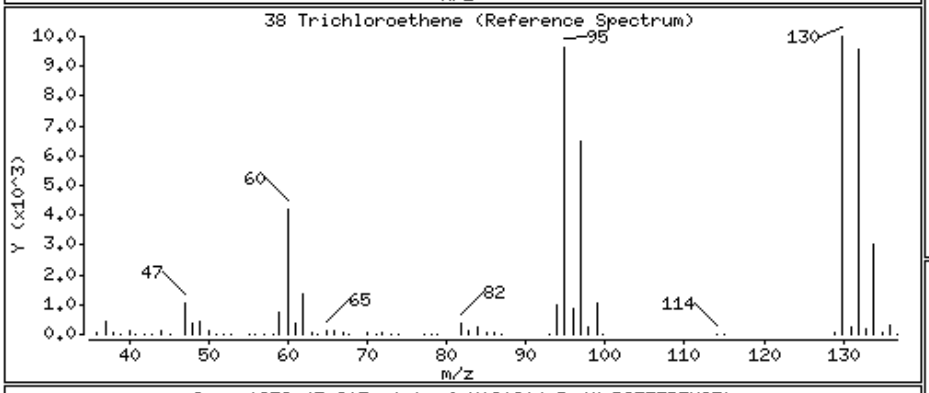
38 Trichloroethene Concentration: 94.81 ug/l

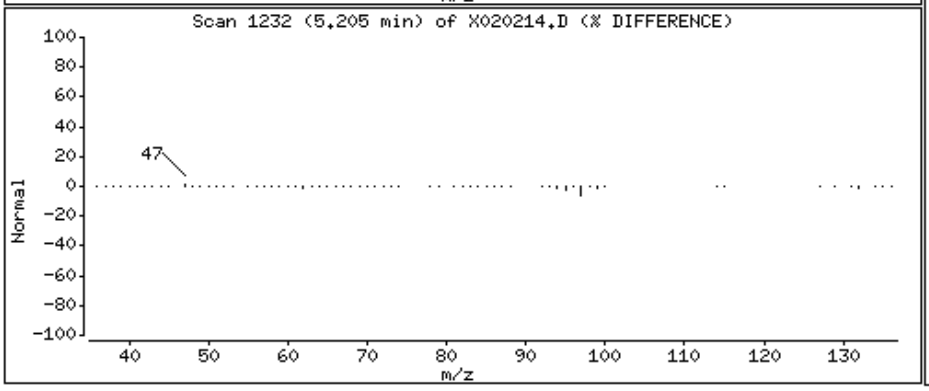


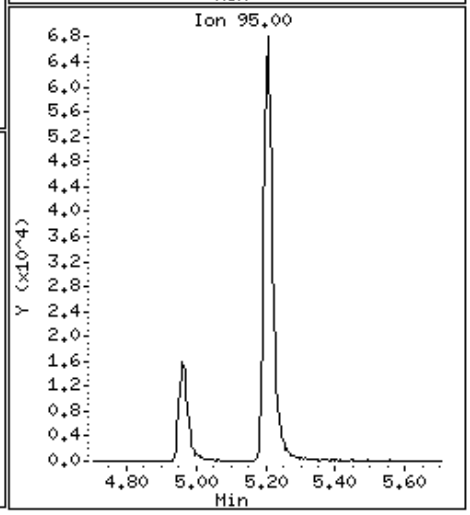












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020214.D Page 5

Date : 02-FEB-2023 18:20

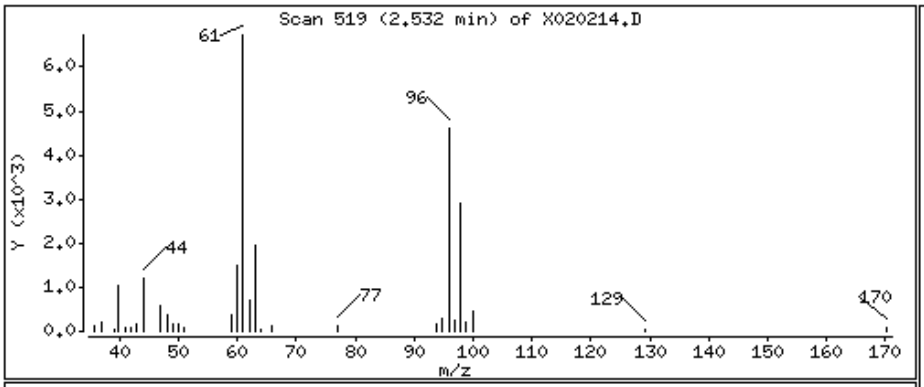
Client ID: HS23011294-09 Instrument: voa6.i

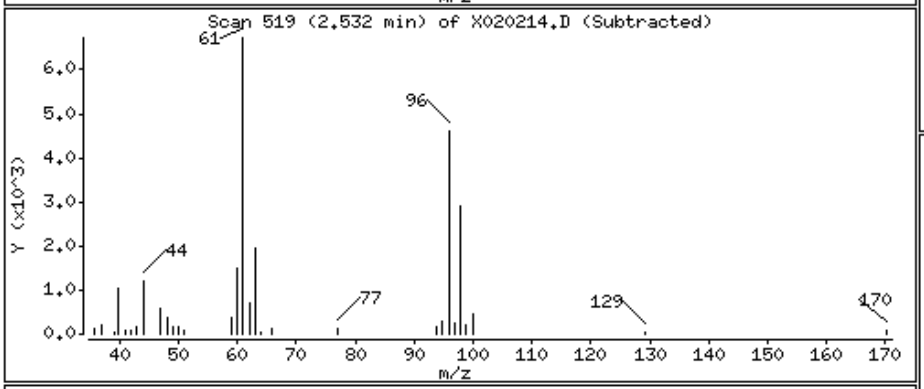
Sample Info: HS23011294-09;HS23011294-09;;;

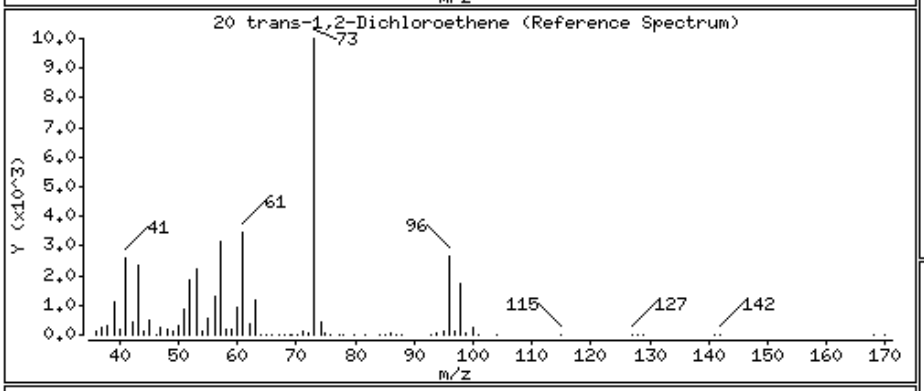
Purge Volume: 5.0 Operator: PC

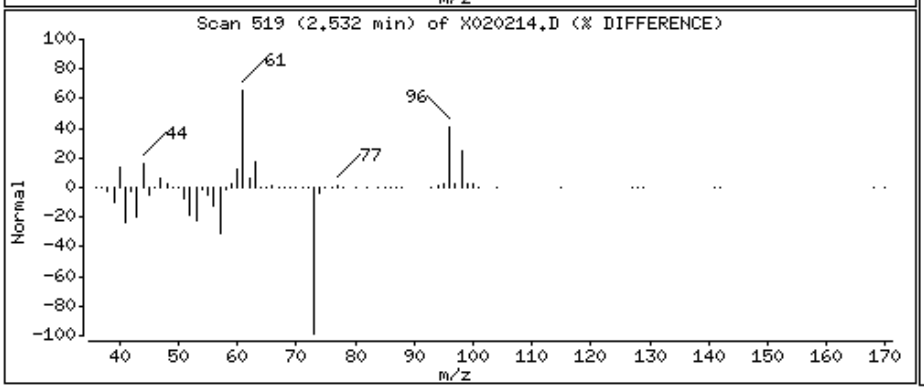
Column phase: DB624 Column diameter: 0.18

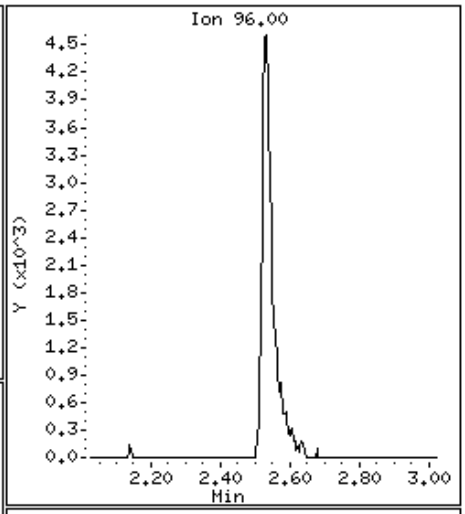
20 trans-1,2-Dichloroethene Concentration: 8.02 ug/l

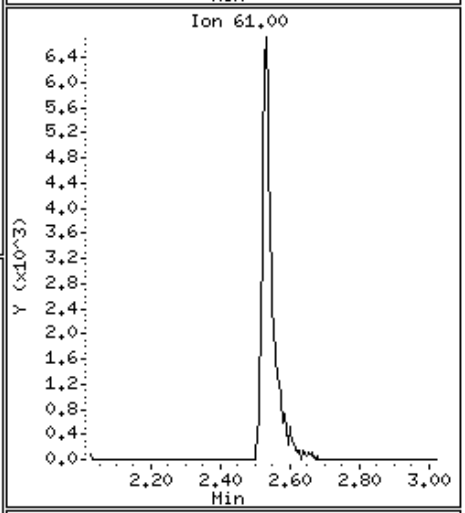


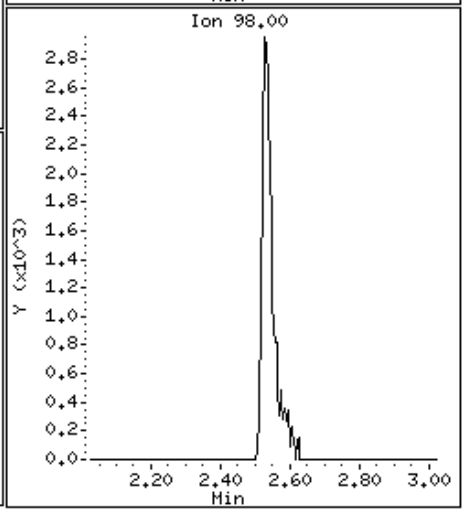












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NO MANUAL INTEGRATIONS

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Report Date: 13-Feb-2023 14:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020217.D
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Smp Info : HS23011294-08MS;HS23011294-08MS;3;;MS
Misc Info : V6;WATER;0;1;
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Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 17 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.174	(1.000)	708429	50.0000	
135	1,4-Dioxane	88	5.602	5.598	(1.341)	24851	383.753	383.75(a)
140	1,3-Butadiene	54	1.160	1.164	(0.278)	73715	15.1612	15.16
25	Methacrylonitrile	41	3.822	3.818	(0.915)	89179	17.7779	17.77
12	Isobutyl Alcohol	43	4.672	4.669	(1.118)	307933	386.449	386.44
13	Acetonitrile	39	2.195	2.195	(0.525)	123389	191.372	191.37
14	Allyl Chloride	41	2.195	2.195	(0.525)	233001	18.9742	18.97
4	Propionitrile	54	3.649	3.645	(0.873)	134255	185.730	185.72(a)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	39450	20.2648	20.26
194	Acetaldehyde	44	1.209	1.209	(0.289)	87439	194.247	194.24
23	Chloroprene	53	1.767	1.767	(0.423)	42672	17.7154	17.71(M)
130	Ethyl Acetate	43	3.649	3.649	(0.873)	100782	18.2312	18.23
40	Methyl Methacrylate	41	5.606	5.602	(1.342)	88596	18.3411	18.34
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	87248	18.6225	18.62
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	32622	35.0475	35.04
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	224178	20.5753	20.57
156	Diisopropyl ether	45	2.997	2.997	(0.717)	336183	18.2934	18.29
182	Epichlorohydrin	57	6.097	6.093	(1.229)	20820	48.6430	48.64
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	500253	21.1260	21.12
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	55828	11.5717	11.57

3 Chloromethane	50	1.074	1.074 (0.257)	95793	16.4959	16.49
5 Vinyl Chloride	62	1.141	1.141 (0.273)	94303	15.2384	15.23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	6 Bromomethane	94	1.336	1.336	(0.320)	70530	16.3007	16.30
	7 Chloroethane	64	1.400	1.400	(0.335)	63204	14.6733	14.67
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	162865	18.8062	18.80
	9 Acrolein	56	1.441	1.441	(0.345)	17735	38.3940	38.39
	10 Acetone	43	1.970	1.970	(0.472)	48951	24.6000	24.60
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	88194	16.4031	16.40
	15 Iodomethane	142	2.026	2.026	(0.485)	194526	30.6595	30.65
	16 Acrylonitrile	53	2.532	2.528	(0.606)	70030	38.4031	38.40
	17 Methylene Chloride	84	2.300	2.300	(0.550)	118931	16.1262	16.12
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	327355	18.6009	18.60
	19 Carbon Disulfide	76	2.063	2.067	(0.494)	504447	35.8596	35.85
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	111768	18.5740	18.57
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	554223	35.8745	35.87
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	186405	17.6508	17.65
	24 2-Butanone	43	3.578	3.570	(0.856)	67497	34.0691	34.06
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	175533	19.5762	19.57
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	122612	16.7431	16.74
	28 Chloroform	83	3.904	3.900	(0.935)	206478	17.4440	17.44
	29 Bromochloromethane	128	3.792	3.791	(0.908)	62625	15.6188	15.61
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	293441	43.1156	43.11
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	197182	20.9963	20.99
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	168092	23.7978	23.79
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	164589	20.1910	20.19
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	170417	22.5938	22.59
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	342035	47.6518	47.65
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	994906	50.0000	
	37 Benzene	78	4.508	4.507	(0.909)	469783	19.7736	19.77
	38 Trichloroethene	130	5.205	5.205	(1.049)	143642	21.3164	21.31
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	164471	18.4462	18.44
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	115634	18.2971	18.29
	44 Dibromomethane	93	5.550	5.553	(1.119)	74891	17.4345	17.43
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	199430	41.3752	41.37
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	193998	18.5264	18.52
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	901784	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	1153170	51.7494	51.74
	50 Toluene	91	6.446	6.446	(0.841)	524393	21.0384	21.03
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	166592	19.1705	19.17
	52 2-Hexanone	43	7.087	7.083	(0.924)	129621	39.5259	39.52
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	91395	18.2772	18.27
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	193337	19.6429	19.64
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	137861	19.1019	19.10
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	123210	23.8909	23.89
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	124597	19.9288	19.92
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	126119	26.2308	26.23
	59 Chlorobenzene	112	7.694	7.694	(1.003)	352600	19.9439	19.94
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	131543	19.9931	19.99
	61 Ethylbenzene	106	7.799	7.795	(1.017)	187672	22.5351	22.53
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	473258	44.0824	44.08
	63 o-Xylene	106	8.241	8.241	(1.075)	224700	21.2059	21.20
	64 Styrene	104	8.260	8.256	(1.077)	375201	21.1258	21.12
	66 Bromoform	173	8.410	8.410	(1.097)	93733	18.7470	18.74
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	590482	24.3918	24.39

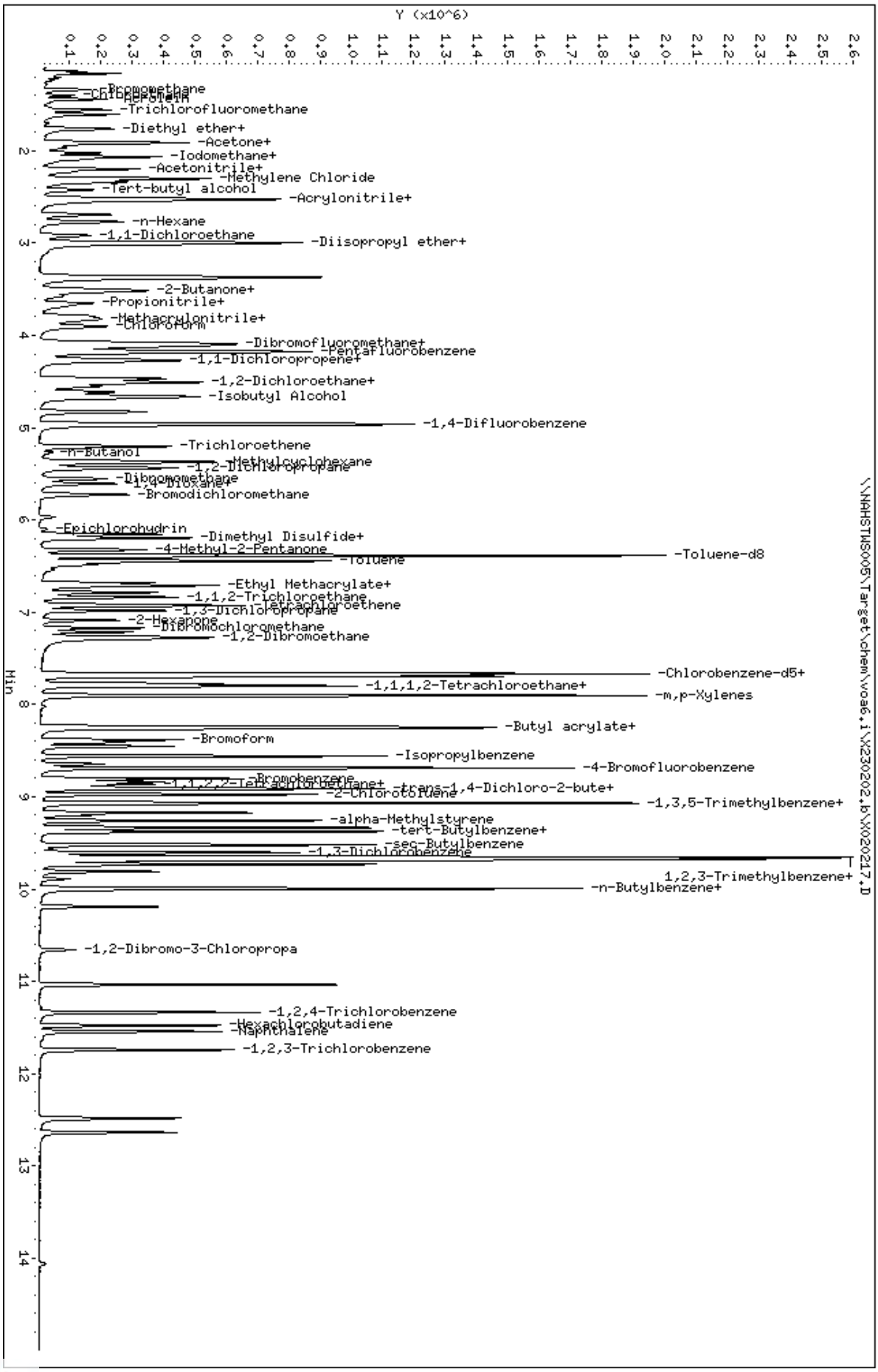
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	152287	19.4305	19.43
$	69 4-Bromofluorobenzene	95	8.687	8.687 (1.133)	435042	52.2272	52.22

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020217.D Page 3
Report Date: 13-Feb-2023 14:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	491734	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	112855	20.6257	20.62(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	691934	25.4035	25.40
	74 Bromobenzene	156	8.803	8.803	(0.911)	167031	20.7038	20.70
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	499047	24.8018	24.80
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	417759	23.3729	23.37
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	482406	23.6755	23.67
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	433998	26.3498	26.34
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	496696	23.4603	23.46
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	605534	27.6313	27.63
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	525432	26.7562	26.75
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	294969	22.0283	22.02
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	307479	21.0429	21.04
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	452118	24.8162	24.81
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	284576	20.6354	20.63
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	25952	20.7654	20.76
	90 1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	199654	22.9404	22.94
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	99660	25.9618	25.96
	92 Naphthalene	128	11.544	11.540	(1.195)	429341	21.6819	21.68
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	183659	22.0337	22.03
M	94 1,2-Dichloroethylene (total)	96				234380	35.3170	35.31
M	95 Xylenes (total)	106				697958	65.2883	65.28
	141 Cyclohexane	56	4.121	4.118	(0.987)	183976	26.3751	26.37
	138 Freon TF	101	1.913	1.913	(0.458)	102856	19.7788	19.77
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	293793	24.1240	24.12
	146 Methyl Acetate	43	2.228	2.225	(0.533)	56470	17.7146	17.71
	148 Tert-Butyl alcohol	59	2.427	2.419	(0.581)	197904	403.442	403.44
	149 Isopropyl Alcohol	45	2.090	2.086	(0.500)	106810	416.928	416.92

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 02-FEB-2023 19:23
InstruID : voa6.i
LabSampID : HS23011294-08MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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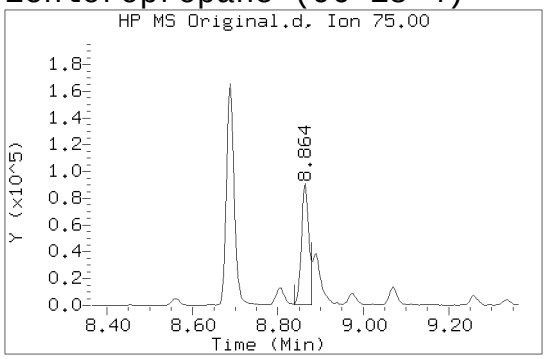
90651
09-Feb-2023
15:23
Kori
Bagsby



AFTER

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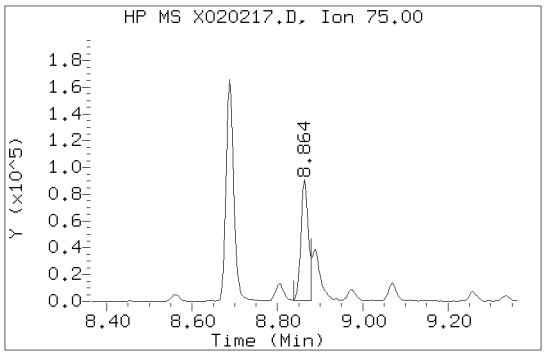

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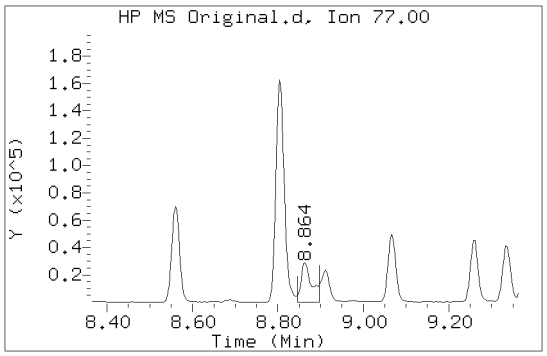

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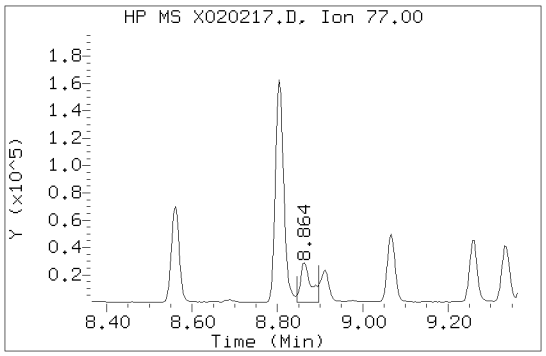

Chloroprene (126-99-8)

Reason Code:

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09-Feb-2023
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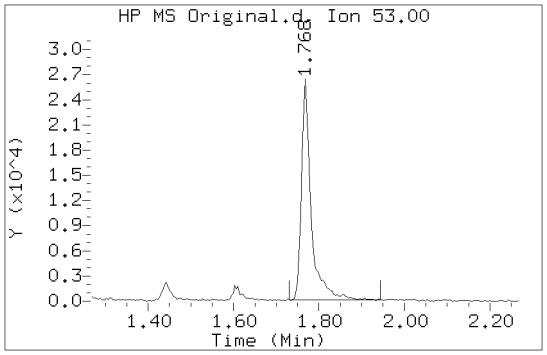

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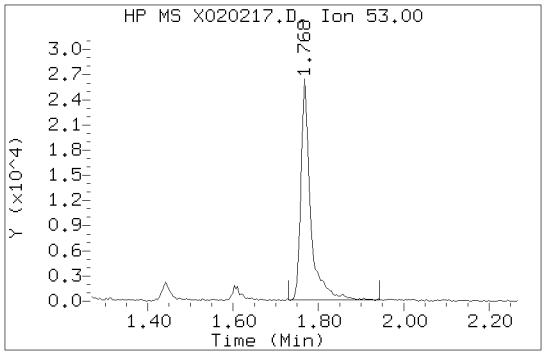

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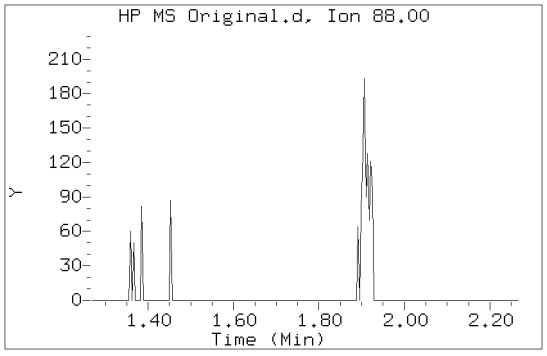

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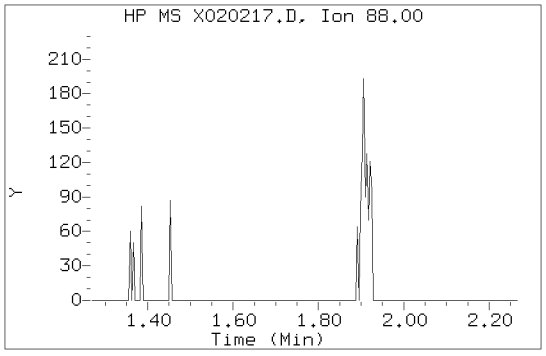

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Report Date: 14-Feb-2023 11:00

ALS Laboratory Group

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Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 13-Feb-2023 14:53 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.178	4.174	(1.000)	712554	50.0000	
135 1,4-Dioxane	88	5.602	5.598	(1.341)	24829	381.194	381.19(a)
140 1,3-Butadiene	54	1.160	1.164	(0.278)	69336	14.1780	14.17
25 Methacrylonitrile	41	3.818	3.818	(0.914)	87643	17.3706	17.37
12 Isobutyl Alcohol	43	4.672	4.669	(1.118)	292650	365.143	365.14
13 Acetonitrile	39	2.194	2.195	(0.525)	118953	183.424	183.42
14 Allyl Chloride	41	2.194	2.195	(0.525)	231115	18.7117	18.71
4 Propionitrile	54	3.649	3.645	(0.873)	130251	179.147	179.14(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	38038	19.4910	19.49
194 Acetaldehyde	44	1.209	1.209	(0.289)	85168	187.370	187.37
23 Chloroprene	53	1.767	1.767	(0.423)	42481	17.5340	17.53(M)
130 Ethyl Acetate	43	3.653	3.649	(0.874)	100150	18.0120	18.01
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	89452	18.4111	18.41
49 Ethyl Methacrylate	69	6.712	6.708	(1.353)	83095	17.6304	17.63
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	31005	32.9430	32.94
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	219916	20.2218	20.22
156 Diisopropyl ether	45	2.997	2.997	(0.717)	337966	18.2840	18.28
182 Epichlorohydrin	57	6.097	6.093	(1.229)	19435	45.3167	45.31
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	494570	20.9250	20.92
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	52801	10.9044	10.90

3 Chloromethane	50	1.074	1.074 (0.257)	92555	15.9331	15.93
5 Vinyl Chloride	62	1.141	1.141 (0.273)	91691	14.7305	14.73

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020218.D Page 2
Report Date: 14-Feb-2023 11:00

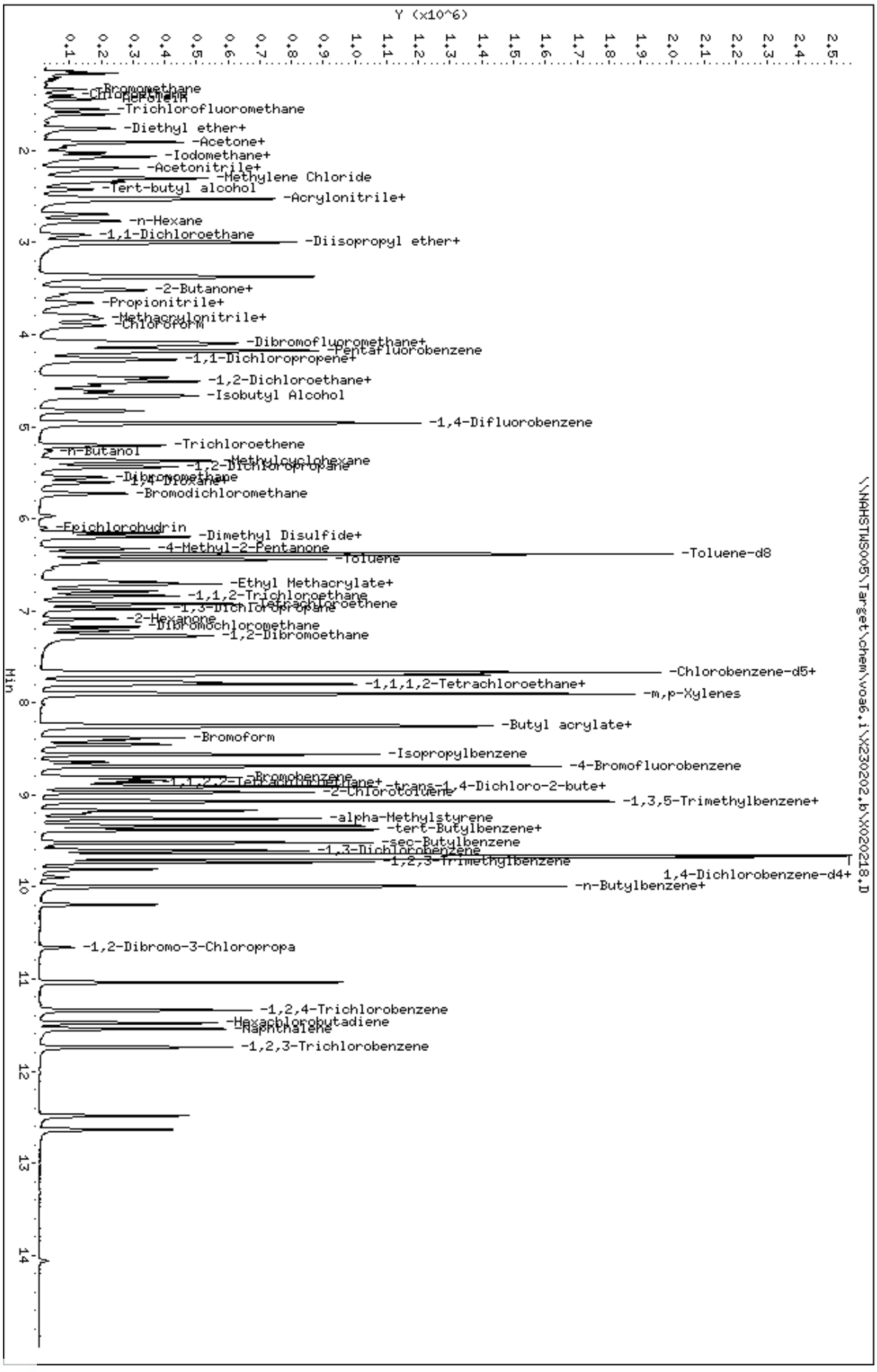
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	6 Bromomethane	94	1.336	1.336	(0.320)	66976	15.4883	15.48
	7 Chloroethane	64	1.400	1.400	(0.335)	61292	14.1471	14.14
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	157793	18.1150	18.11
	9 Acrolein	56	1.441	1.441	(0.345)	16902	36.5269	36.52
	10 Acetone	43	1.970	1.970	(0.472)	50962	25.4636	25.46
	11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	85788	15.8633	15.86
	15 Iodomethane	142	2.022	2.026	(0.484)	214690	33.2864	33.28
	16 Acrylonitrile	53	2.532	2.528	(0.606)	69967	38.1465	38.14
	17 Methylene Chloride	84	2.299	2.300	(0.550)	114130	15.3856	15.38
	18 Methyl tert-butyl ether	73	2.528	2.532	(0.605)	320998	18.1341	18.13
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	484349	34.2315	34.23
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	105773	17.4759	17.47
	21 Vinyl Acetate	43	2.993	2.993	(0.716)	547809	35.2540	35.25
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	178597	16.8135	16.81
	24 2-Butanone	43	3.578	3.570	(0.856)	66662	33.5075	33.50
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	167311	18.5512	18.55
	27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	120098	16.3048	16.30
	28 Chloroform	83	3.904	3.900	(0.935)	203146	17.0632	17.06
	29 Bromochloromethane	128	3.791	3.791	(0.908)	60953	15.1138	15.11
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	295054	43.1015	43.10
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	189115	20.0207	20.02
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	160857	22.6378	22.63
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	161237	19.6619	19.66
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	162812	21.4569	21.45
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.069)	342861	47.4912	47.49
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	1000871	50.0000	
	37 Benzene	78	4.511	4.507	(0.909)	457092	19.1247	19.12
	38 Trichloroethene	130	5.205	5.205	(1.049)	136470	20.1314	20.13
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	161890	18.0485	18.04
	42 1,2-Dichloropropane	63	5.437	5.433	(1.096)	114998	18.0880	18.08
	44 Dibromomethane	93	5.550	5.553	(1.119)	74938	17.3414	17.34
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	190891	39.5054	39.50
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	194406	18.4548	18.45
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	904027	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	1162118	52.0216	52.02
	50 Toluene	91	6.445	6.446	(0.841)	510049	20.4121	20.41
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	166298	19.0226	19.02
	52 2-Hexanone	43	7.086	7.083	(0.924)	132372	40.2646	40.26
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	93302	18.6122	18.61
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	191052	19.3626	19.36
	55 Dibromochloromethane	129	7.176	7.173	(0.936)	136848	18.9145	18.91
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	118869	22.9920	22.99
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	122788	19.5907	19.59
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	121704	25.1616	25.16
	59 Chlorobenzene	112	7.694	7.694	(1.003)	346334	19.5409	19.54
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	127318	19.3029	19.30
	61 Ethylbenzene	106	7.799	7.795	(1.017)	180484	21.6182	21.61
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	458205	42.5744	42.57
	63 o-Xylene	106	8.241	8.241	(1.075)	216130	20.3465	20.34
	64 Styrene	104	8.260	8.256	(1.077)	365978	20.5553	20.55
	66 Bromoform	173	8.410	8.410	(1.097)	91342	18.2234	18.22
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	574957	23.6916	23.69

	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	150651	19.2577	19.25
$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	441506	52.8709	52.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	490817	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	111841	20.4785	20.47(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	670838	24.6750	24.67
	74 Bromobenzene	156	8.803	8.803	(0.911)	162224	20.1456	20.14
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	483759	24.0870	24.08
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	400488	22.4485	22.44
	77 4-Chlorotoluene	91	9.069	9.070	(0.939)	460698	22.6523	22.65
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	420910	25.6029	25.60
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	481457	22.7830	22.78
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	586923	26.8321	26.83
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	514550	26.2510	26.25
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	290321	21.7217	21.72
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	302775	20.7597	20.75
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	451206	24.8126	24.81
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	286124	20.7864	20.78
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	25171	20.1807	20.18
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	199516	22.9674	22.96
	91 Hexachlorobutadiene	225	11.480	11.476	(1.188)	99088	25.8615	25.86
	92 Naphthalene	128	11.544	11.540	(1.195)	426811	21.5944	21.59
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	180695	21.7186	21.71
M	94 1,2-Dichloroethylene (total)	96				225871	33.7808	33.78
M	95 Xylenes (total)	106				674335	62.9209	62.92
	141 Cyclohexane	56	4.121	4.118	(0.987)	179412	25.6103	25.61
	138 Freon TF	101	1.910	1.913	(0.457)	98869	18.9021	18.90
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	285909	23.3367	23.33
	146 Methyl Acetate	43	2.232	2.225	(0.534)	56914	17.7505	17.75
	148 Tert-Butyl alcohol	59	2.423	2.419	(0.580)	194949	395.117	395.11
	149 Isopropyl Alcohol	45	2.093	2.086	(0.501)	105102	407.886	407.88

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6.i
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1,2,3-Trichloropropane (96-18-4)

Reason Code:

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13-Feb-2023
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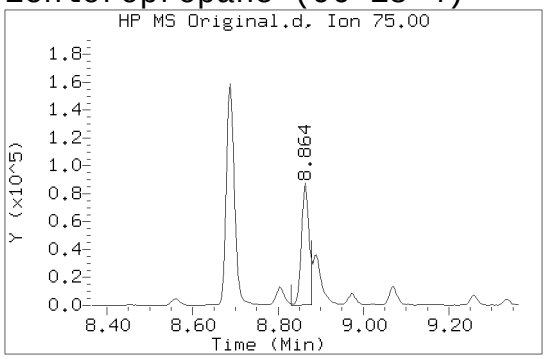

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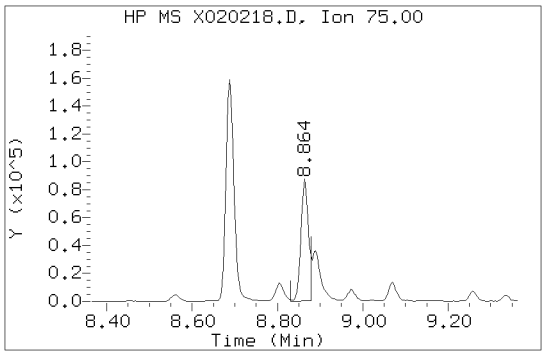

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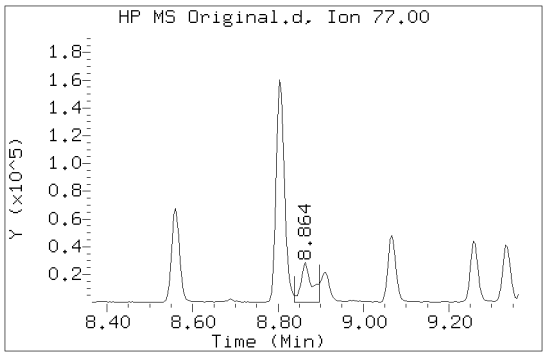

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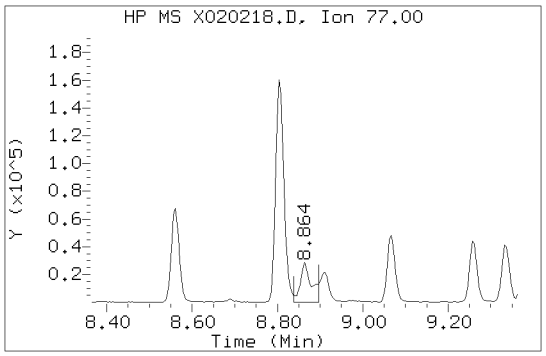

Chloroprene (126-99-8)

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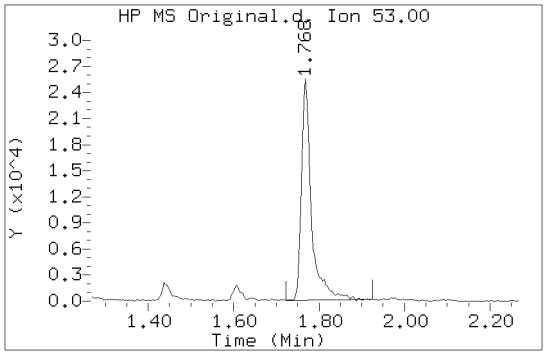

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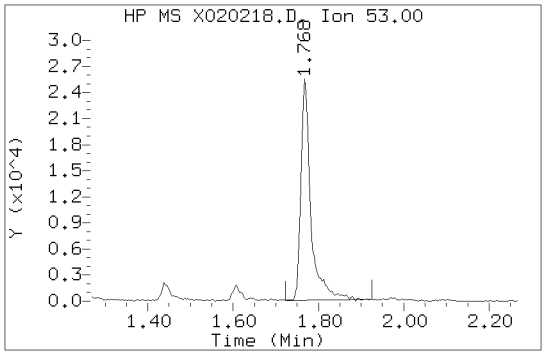

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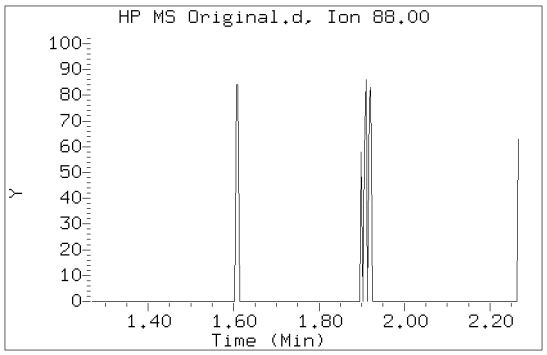

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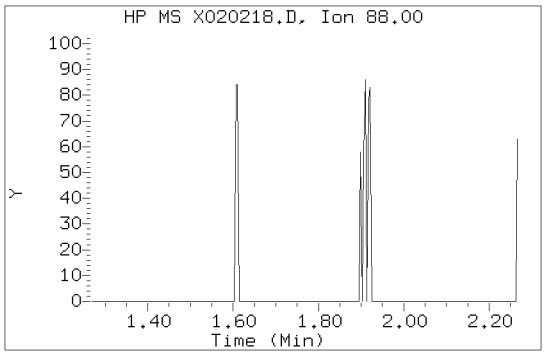

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Report Date: 13-Feb-2023 14:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020231.D
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Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
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Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.174	4.174	(1.000)	569105	50.0000	
135	1,4-Dioxane	88	5.598	5.598	(1.341)	62378	1000.00	1199.06
140	1,3-Butadiene	54	1.164	1.164	(0.279)	177352	50.0000	45.40
25	Methacrylonitrile	41	3.818	3.818	(0.915)	219421	50.0000	54.45
12	Isobutyl Alcohol	43	4.669	4.669	(1.119)	704358	1000.00	1100.35
13	Acetonitrile	39	2.195	2.195	(0.526)	268092	500.000	517.59
14	Allyl Chloride	41	2.195	2.195	(0.526)	531779	50.0000	53.90
4	Propionitrile	54	3.645	3.645	(0.873)	311781	500.000	536.91
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	97480	50.0000	55.74
194	Acetaldehyde	44	1.209	1.209	(0.290)	86149	200.000	243.50
23	Chloroprene	53	1.767	1.767	(0.423)	83828	50.0000	43.32(M)
130	Ethyl Acetate	43	3.649	3.649	(0.874)	242641	50.0000	54.63
40	Methyl Methacrylate	41	5.602	5.602	(1.342)	222224	50.0000	57.26
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	233855	50.0000	58.31
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	71265	100.000	100.75
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	522224	50.0000	52.61
156	Diisopropyl ether	45	2.997	2.997	(0.718)	745621	50.0000	50.50
182	Epichlorohydrin	57	6.093	6.093	(1.228)	85668	200.000	224.30
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1141388	50.0000	52.91
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	478489	50.0000	119.66

3 Chloromethane	50	1.074	1.074 (0.257)	256773	50.0000	49.87
5 Vinyl Chloride	62	1.141	1.141 (0.273)	223809	50.0000	45.01

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020231.D Page 2
Report Date: 13-Feb-2023 14:53

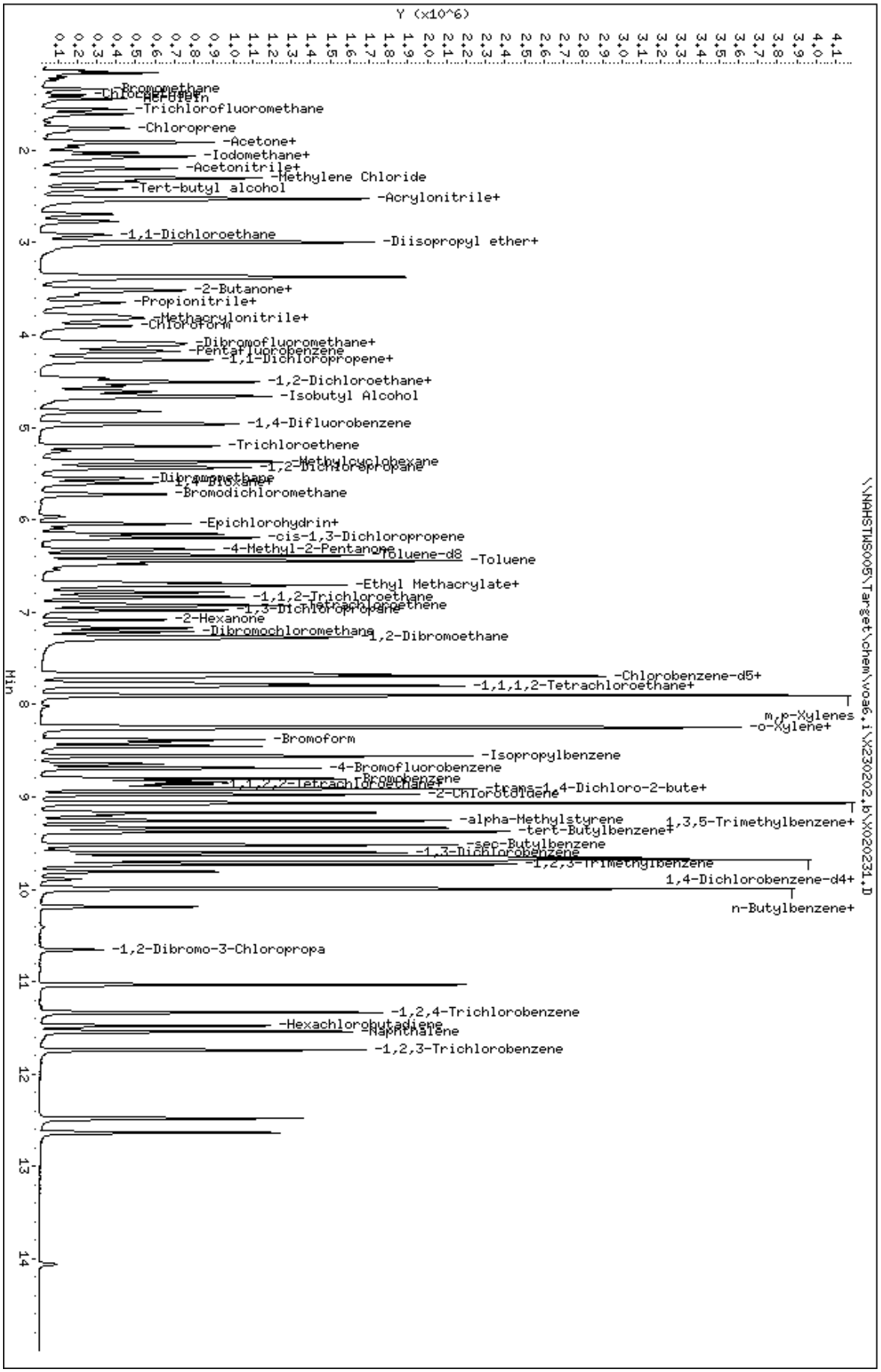
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.336	1.336	(0.320)	156126	50.0000	41.81
	7 Chloroethane	64	1.400	1.400	(0.335)	144919	50.0000	41.88
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	325815	50.0000	46.83
	9 Acrolein	56	1.441	1.441	(0.345)	35410	100.000	91.23
	10 Acetone	43	1.970	1.970	(0.472)	135692	100.000	84.96
	11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	184967	50.0000	42.82
	15 Iodomethane	142	2.026	2.026	(0.485)	525668	100.000	92.87
	16 Acrylonitrile	53	2.528	2.528	(0.606)	162234	100.000	110.74
	17 Methylene Chloride	84	2.300	2.300	(0.551)	271847	50.0000	45.88
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.607)	715511	50.0000	50.60
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1005464	100.000	88.97
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	234404	50.0000	48.49
	21 Vinyl Acetate	43	2.993	2.993	(0.717)	1070003	100.000	86.21
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	403232	50.0000	47.52
	24 2-Butanone	43	3.570	3.570	(0.855)	177921	100.000	104.88
	26 2,2-Dichloropropane	77	3.507	3.507	(0.840)	327243	50.0000	45.43
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	276138	50.0000	46.93
	28 Chloroform	83	3.900	3.900	(0.934)	463612	50.0000	48.75
	29 Bromochloromethane	128	3.791	3.791	(0.908)	146884	50.0000	45.60
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	244891	50.0000	44.79
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	384485	50.0000	50.96
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	329184	50.0000	54.44
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	379183	50.0000	54.34
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	320059	50.0000	49.57
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.071)	282644	50.0000	49.00
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	851640	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	1033467	50.0000	50.81
	38 Trichloroethene	130	5.205	5.205	(1.049)	312492	50.0000	54.17
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	379233	50.0000	49.68
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	291291	100.000	134.15
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	267962	50.0000	49.53
	44 Dibromomethane	93	5.553	5.553	(1.119)	179463	50.0000	48.80
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	491794	100.000	113.57
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	460458	50.0000	51.37
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	810096	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	951602	50.0000	47.53
	50 Toluene	91	6.446	6.446	(0.841)	1132994	50.0000	50.59
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	403429	50.0000	54.23
	52 2-Hexanone	43	7.083	7.083	(0.924)	339399	100.000	115.20
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	228416	50.0000	50.84
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	459727	50.0000	51.99
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	336297	50.0000	51.87
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	239249	50.0000	51.64
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	301619	50.0000	53.70
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	215569	50.0000	52.37
	59 Chlorobenzene	112	7.694	7.694	(1.003)	797627	50.0000	50.22
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	307617	50.0000	52.04
	61 Ethylbenzene	106	7.795	7.795	(1.017)	392484	50.0000	52.46
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	984611	100.000	102.09
	63 o-Xylene	106	8.241	8.241	(1.075)	491043	50.0000	51.58
	64 Styrene	104	8.256	8.256	(1.077)	858394	50.0000	53.80
	66 Bromoform	173	8.410	8.410	(1.097)	237924	50.0000	52.97

67	Isopropylbenzene	105	8.560	8.560 (1.116)	1189128	50.0000	54.68
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	363674	50.0000	50.93

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	379320	50.0000	50.69
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	447952	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	296926	50.0000	59.57(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1394504	50.0000	56.20
	74 Bromobenzene	156	8.803	8.803	(0.911)	385565	50.0000	52.46
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1049139	50.0000	57.23
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	904464	50.0000	55.54
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1050391	50.0000	56.58
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	859557	50.0000	57.28
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1075676	50.0000	55.77
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1174576	50.0000	58.83
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	1063252	50.0000	59.43
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	670659	50.0000	54.98
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	702753	50.0000	52.79
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	911890	50.0000	52.78
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	675931	50.0000	53.80
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	67457	50.0000	59.08
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	491572	50.0000	62.00
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	195200	50.0000	55.48
	92 Naphthalene	128	11.540	11.540	(1.194)	1136449	50.0000	63.00
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	472539	50.0000	62.23
M	94 1,2-Dichloroethylene (total)	96				510542	100.000	(a)
	141 Cyclohexane	56	4.118	4.118	(0.987)	288278	50.0000	50.24
	138 Freon TF	101	1.913	1.913	(0.458)	185744	50.0000	44.46
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	639466	50.0000	61.34
	146 Methyl Acetate	43	2.225	2.225	(0.533)	140629	50.0000	54.91
	148 Tert-Butyl alcohol	59	2.419	2.419	(0.580)	486677	1000.00	1235.01
	149 Isopropyl Alcohol	45	2.086	2.086	(0.500)	261660	1000.00	1271.42

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 03-FEB-2023 00:17
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

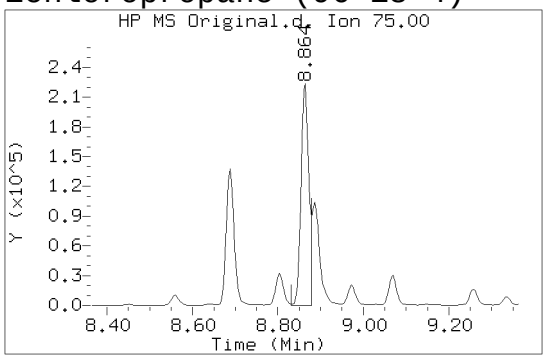
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230202.b\X020231.D
Inj Date : 03-FEB-2023 00:17
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
75
AREA
296926
HEIGHT
223315
09-Feb-2023
15:23
Kori
Bagsby



AFTER

MASS
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13-Feb-2023
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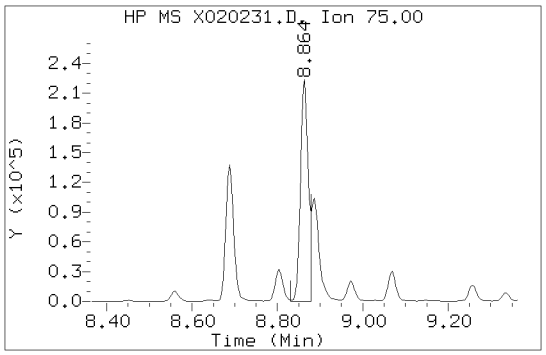

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72363
09-Feb-2023
15:23
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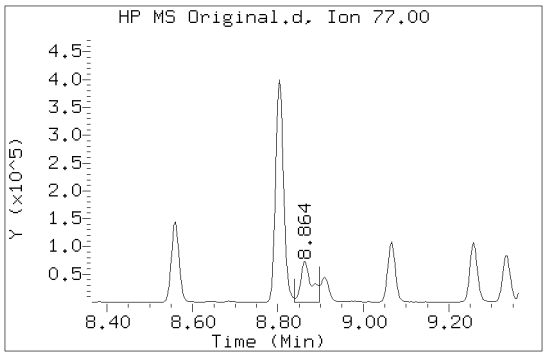

AFTER

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13-Feb-2023
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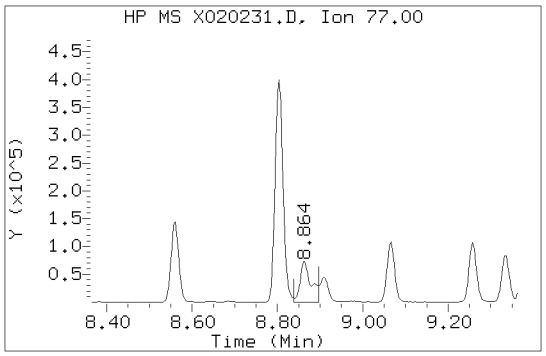

Chloroprene (126-99-8)

Reason Code:

BEFORE

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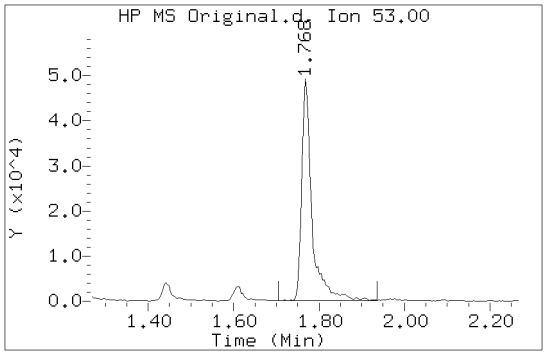
HEIGHT
49132
09-Feb-2023
15:23
Kori
Bagsby



AFTER

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HEIGHT
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13-Feb-2023
14:52
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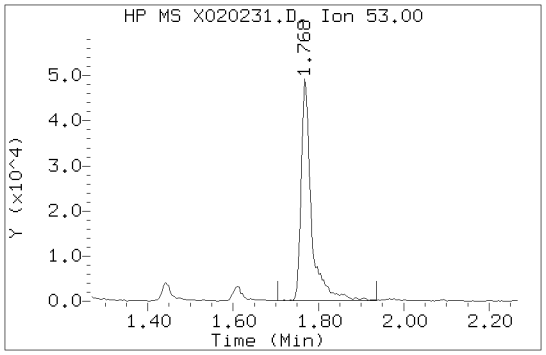

BEFORE

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HEIGHT
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09-Feb-2023
15:23
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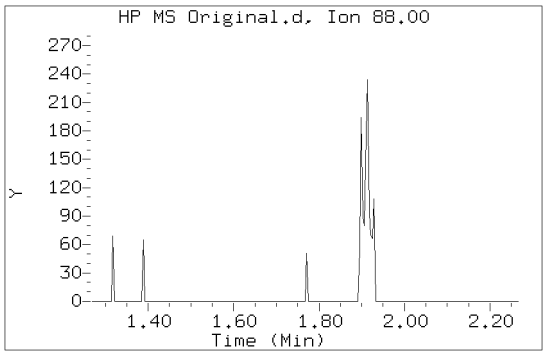
Bagsby



AFTER

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13-Feb-2023
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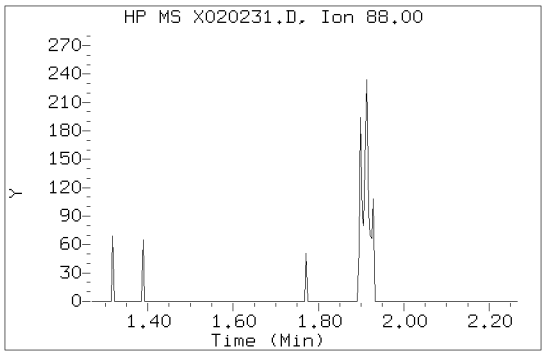
Kori
Bags



right solutions.
right partner.

Raw Data VOA6 427296

Volatiles by by EPA 8260

Workorder

HS23011294

Client

Aptim Environmental & Infrastucture, Inc.

Project

LHAAP 16 January 2023

02/16/2023

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\voa6.i\X230203.b\X020301.D Page 1
Report Date: 03-Feb-2023 10:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020301.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 03-FEB-2023 10:20
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\bfb.m
Meth Date : 01-Dec-2022 12:59 Linh.Pham 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: NAHSTW7051

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)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	129312			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	22816			15.00- 40.00	17.64
8.687	8.889	(0.000)	75	63504			30.00- 60.00	49.11
8.687	8.889	(0.000)	96	8522			5.00- 9.00	6.59
8.687	8.889	(0.000)	173	705			0.00- 2.00	0.68
8.687	8.889	(0.000)	174	104112			50.00- 0.00	80.51
8.687	8.889	(0.000)	175	7860			5.00- 9.00	7.55
8.687	8.889	(0.000)	176	102472			95.00- 101.00	98.42
8.687	8.889	(0.000)	177	6483			5.00- 9.00	6.33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.64
75	30.00 - 60.00% of mass 95	49.11
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.55 (0.68)
174	Greater than 50.00% of mass 95	80.51
175	5.00 - 9.00% of mass 174	6.08 (7.55)
176	95.00 - 101.00% of mass 174	79.24 (98.42)
177	5.00 - 9.00% of mass 176	5.01 (6.33)

Data File: X020301.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	1191	64.00	547	95.00	129312	140.90	1051
37.10	5499	65.00	190	96.00	8522	141.80	158
38.00	4875	65.90	101	97.00	467	142.90	1066
39.00	3253	66.90	394	98.00	669	143.80	115
39.90	1103	68.00	13324	102.70	110	144.80	80
41.00	1092	69.00	11596	103.90	735	145.90	215
42.00	1537	70.10	1697	105.00	318	146.60	82
42.90	910	70.90	176	105.90	436	147.90	289
44.00	1819	72.00	679	106.80	161	148.60	69
45.00	1457	73.10	5290	108.90	51	148.90	77
46.00	92	74.00	20088	109.90	138	149.70	77
47.00	1421	75.00	63504	111.90	121	151.70	116
48.00	1018	76.00	5982	112.70	183	152.70	99
49.00	5676	76.90	897	115.20	139	153.70	115
50.00	22816	77.90	720	115.80	487	154.70	390
51.00	7156	78.90	3139	116.90	776	156.80	313
52.10	502	80.00	1344	117.80	294	158.80	170
53.00	154	80.90	3512	118.70	579	160.60	197
53.90	199	81.90	590	123.00	55	172.90	705
55.00	2034	83.00	322	123.70	97	173.90	104112
56.10	2540	84.10	102	128.00	560	174.90	7860
57.00	3412	85.90	73	128.80	184	175.90	102472
58.00	270	87.00	4828	130.00	372	176.90	6483
59.00	57	88.10	4676	130.90	182	177.80	157
60.00	902	91.00	385	134.80	115	185.80	145
61.00	5331	92.00	3501	136.70	147	207.00	62
62.00	5352	93.00	4688	139.10	90		
63.00	3795	94.00	14453	139.80	101		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020301.D

Date : 03-FEB-2023 10:20

Client ID: BFB

Instrument: voa6.i

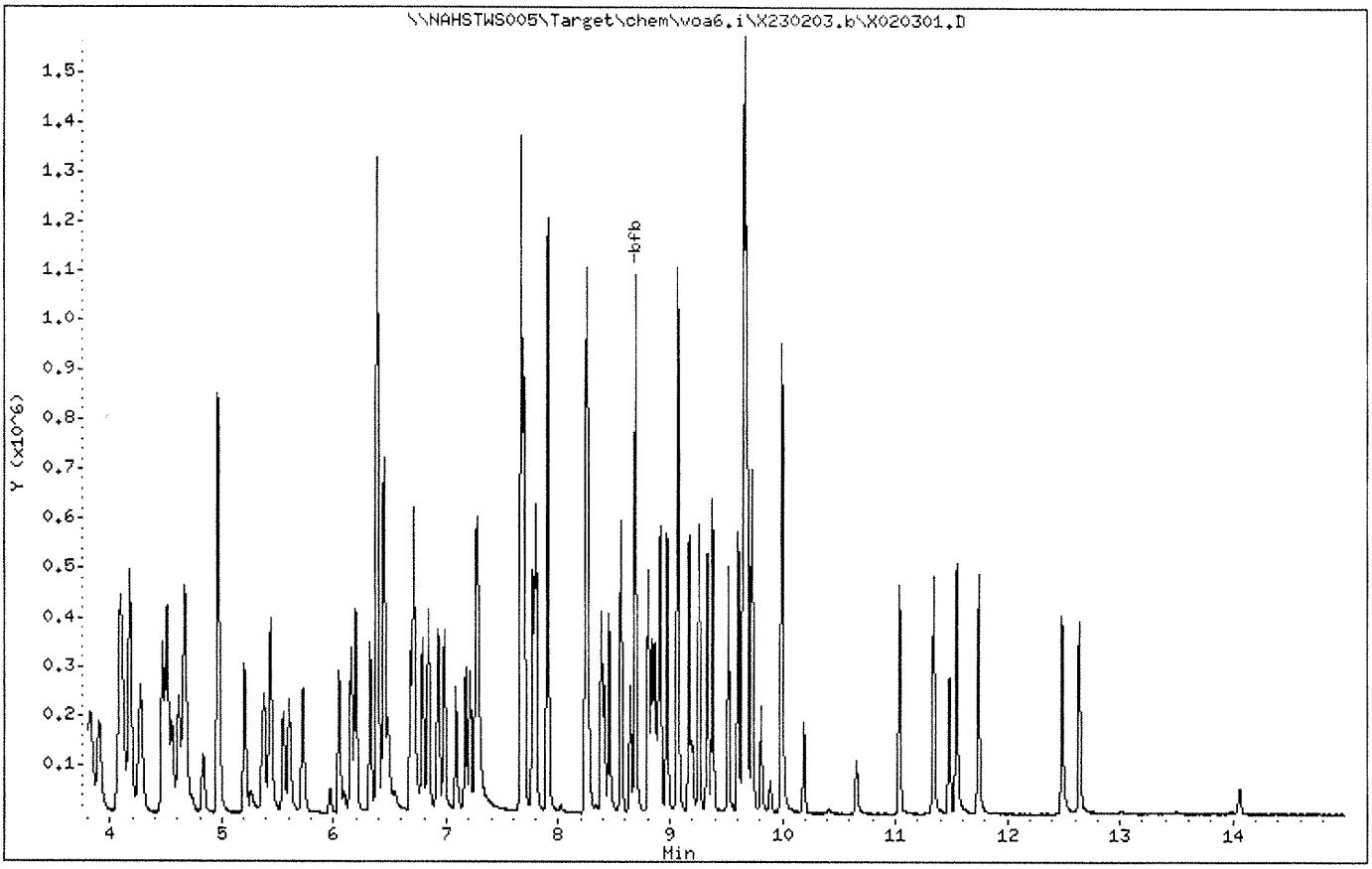
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



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Date : 03-FEB-2023 10:20

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

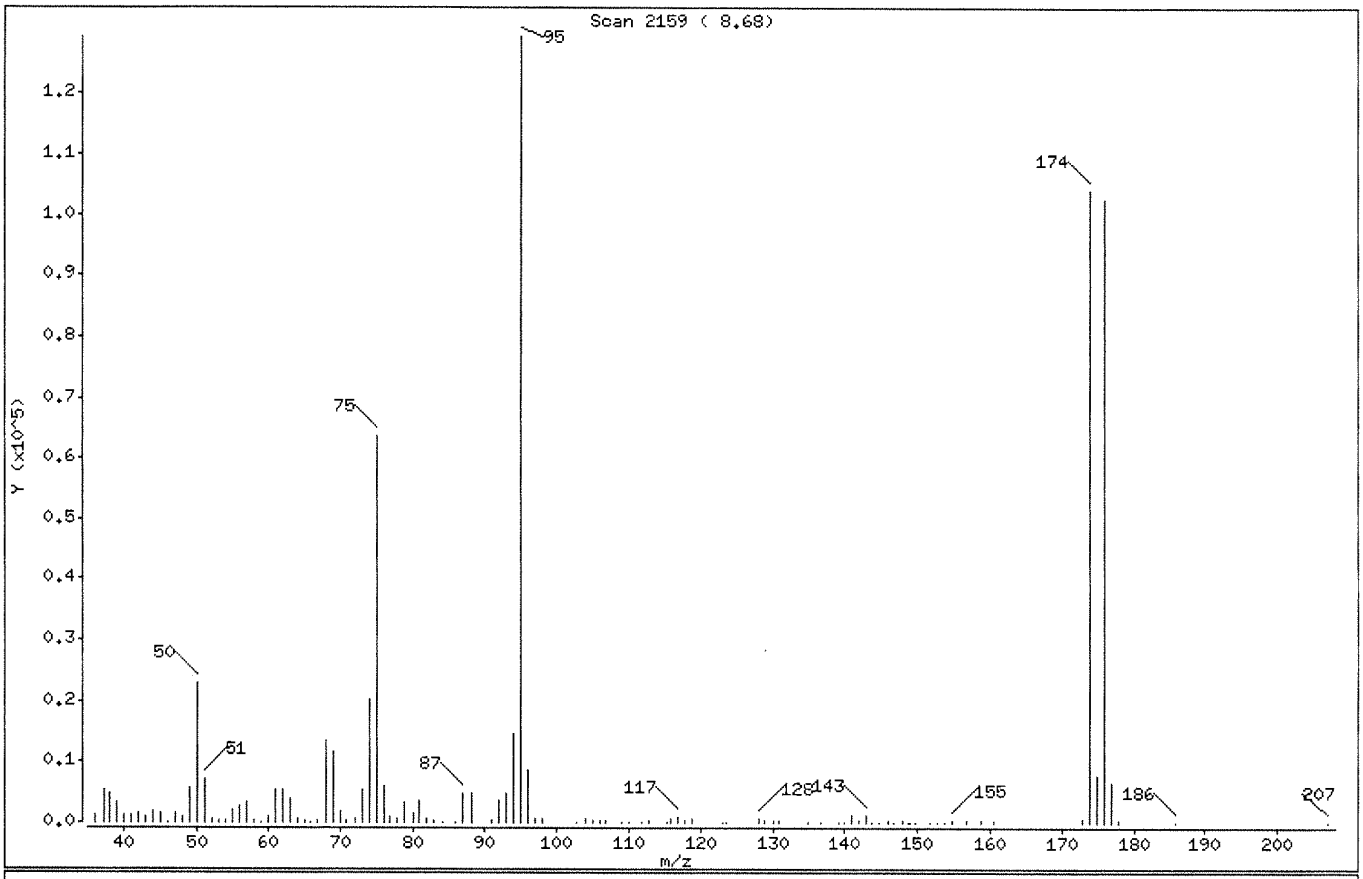
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.64
75	30.00 - 60.00% of mass 95	49.11
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.55 (0.68)
174	Greater than 50.00% of mass 95	80.51
175	5.00 - 9.00% of mass 174	6.08 (7.55)
176	95.00 - 101.00% of mass 174	79.24 (98.42)
177	5.00 - 9.00% of mass 176	5.01 (6.33)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020301.D

Date : 03-FEB-2023 10:20

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: X020301.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	1191	64.00	547	95.00	129312	140.90	1051
37.10	5499	65.00	190	96.00	8522	141.80	158
38.00	4875	65.90	101	97.00	467	142.90	1066
39.00	3253	66.90	394	98.00	669	143.80	115
39.90	1103	68.00	13324	102.70	110	144.80	80
41.00	1092	69.00	11596	103.90	735	145.90	215
42.00	1537	70.10	1697	105.00	318	146.60	82
42.90	910	70.90	176	105.90	436	147.90	289
44.00	1819	72.00	679	106.80	161	148.60	69
45.00	1457	73.10	5290	108.90	51	148.90	77
46.00	92	74.00	20088	109.90	138	149.70	77
47.00	1421	75.00	63504	111.90	121	151.70	116
48.00	1018	76.00	5982	112.70	183	152.70	99
49.00	5676	76.90	897	115.20	139	153.70	115
50.00	22816	77.90	720	115.80	487	154.70	390
51.00	7156	78.90	3139	116.90	776	156.80	313
52.10	502	80.00	1344	117.80	294	158.80	170
53.00	154	80.90	3512	118.70	579	160.60	197
53.90	199	81.90	590	123.00	55	172.90	705
55.00	2034	83.00	322	123.70	97	173.90	104112
56.10	2540	84.10	102	128.00	560	174.90	7860
57.00	3412	85.90	73	128.80	184	175.90	102472
58.00	270	87.00	4828	130.00	372	176.90	6483
59.00	57	88.10	4676	130.90	182	177.80	157
60.00	902	91.00	385	134.80	115	185.80	145
61.00	5331	92.00	3501	136.70	147	207.00	62
62.00	5352	93.00	4688	139.10	90		
63.00	3795	94.00	14453	139.80	101		

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020301.D
Inj Date : 03-FEB-2023 10:20
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020303.D Page 1
Report Date: 13-Feb-2023 14:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020303.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 03-FEB-2023 11:02
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\8260W.m
Meth Date : 13-Feb-2023 14:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.174	4.174	(1.000)	594086	50.0000	
135 1,4-Dioxane	88	5.594	5.594	(1.340)	67426	1000.00	1241.60
140 1,3-Butadiene	54	1.163	1.163	(0.279)	177040	50.0000	43.42
25 Methacrylonitrile	41	3.814	3.814	(0.914)	226704	50.0000	53.89
12 Isobutyl Alcohol	43	4.668	4.668	(1.119)	737392	1000.00	1103.52
13 Acetonitrile	39	2.194	2.194	(0.526)	284973	500.000	527.05
14 Allyl Chloride	41	2.194	2.194	(0.526)	565414	50.0000	54.90
4 Propionitrile	54	3.645	3.645	(0.873)	336939	500.000	555.83
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	103272	50.0000	58.34
194 Acetaldehyde	44	1.208	1.208	(0.290)	89914	200.000	243.45
130 Ethyl Acetate	43	3.649	3.649	(0.874)	260638	50.0000	56.22
40 Methyl Methacrylate	41	5.602	5.602	(1.342)	240253	50.0000	59.30
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	241936	50.0000	58.30
142 Tetrahydrofuran	42	3.840	3.840	(0.920)	78601	100.000	106.62
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	518120	50.0000	51.70
156 Diisopropyl ether	45	2.993	2.993	(0.717)	790488	50.0000	51.29
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	595135	50.0000	53.63
182 Epichlorohydrin	57	6.093	6.093	(1.228)	95794	200.000	242.21
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1142571	50.0000	52.46
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	479968	50.0000	114.99

3 Chloromethane	50	1.077	1.077 (0.258)	268349	50.0000	49.92
5 Vinyl Chloride	62	1.141	1.141 (0.273)	222331	50.0000	42.84

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020303.D Page 2
Report Date: 13-Feb-2023 14:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	6 Bromomethane	94	1.340	1.340	(0.321)	156137	50.0000	40.13
	7 Chloroethane	64	1.400	1.400	(0.335)	148676	50.0000	41.15
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	323874	50.0000	44.59
	9 Acrolein	56	1.441	1.441	(0.345)	40380	100.000	99.40
	10 Acetone	43	1.969	1.969	(0.472)	175713	100.000	105.41
	11 1,1-Dichloroethene	96	1.909	1.909	(0.458)	181004	50.0000	40.14
	15 Iodomethane	142	2.026	2.026	(0.485)	576746	100.000	97.26
	16 Acrylonitrile	53	2.528	2.528	(0.606)	172722	100.000	112.94
	17 Methylene Chloride	84	2.299	2.299	(0.551)	270395	50.0000	43.72
	18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	750523	50.0000	50.85
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1036933	100.000	87.89
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	235697	50.0000	46.70
	21 Vinyl Acetate	43	2.993	2.993	(0.717)	1426860	100.000	110.13
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	416544	50.0000	47.03
	24 2-Butanone	43	3.570	3.570	(0.855)	202963	100.000	114.34
	26 2,2-Dichloropropane	77	3.506	3.506	(0.840)	383616	50.0000	51.01
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.844)	278865	50.0000	45.40
	28 Chloroform	83	3.900	3.900	(0.934)	468196	50.0000	47.16
	29 Bromochloromethane	128	3.791	3.791	(0.908)	149241	50.0000	44.38
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	253828	50.0000	44.47
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	384616	50.0000	48.83
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	326159	50.0000	52.13
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	383300	50.0000	53.09
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	321420	50.0000	48.11
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.071)	289045	50.0000	48.01
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	881142	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	1044393	50.0000	49.63
	38 Trichloroethene	130	5.205	5.205	(1.049)	300884	50.0000	50.41
	39 Bromodichloromethane	83	5.726	5.726	(1.154)	386357	50.0000	48.92
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	302337	100.000	134.57
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	278130	50.0000	49.69
	44 Dibromomethane	93	5.549	5.549	(1.119)	180860	50.0000	47.53
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	501327	100.000	114.40
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	487911	50.0000	52.61
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	819861	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	977316	50.0000	48.24
	50 Toluene	91	6.445	6.445	(0.841)	1135811	50.0000	50.12
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	425531	50.0000	55.28
	52 2-Hexanone	43	7.083	7.083	(0.924)	355859	100.000	119.35
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	227622	50.0000	50.06
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	468025	50.0000	52.30
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	336537	50.0000	51.28
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	239233	50.0000	51.02
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	301073	50.0000	52.96
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	221634	50.0000	52.04
	59 Chlorobenzene	112	7.694	7.694	(1.003)	795442	50.0000	49.48
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	307763	50.0000	51.45
	61 Ethylbenzene	106	7.799	7.799	(1.017)	391787	50.0000	51.74
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	986751	100.000	101.09
	63 o-Xylene	106	8.241	8.241	(1.075)	486431	50.0000	50.49
	64 Styrene	104	8.256	8.256	(1.077)	855623	50.0000	52.98
	66 Bromoform	173	8.410	8.410	(1.097)	238042	50.0000	52.36

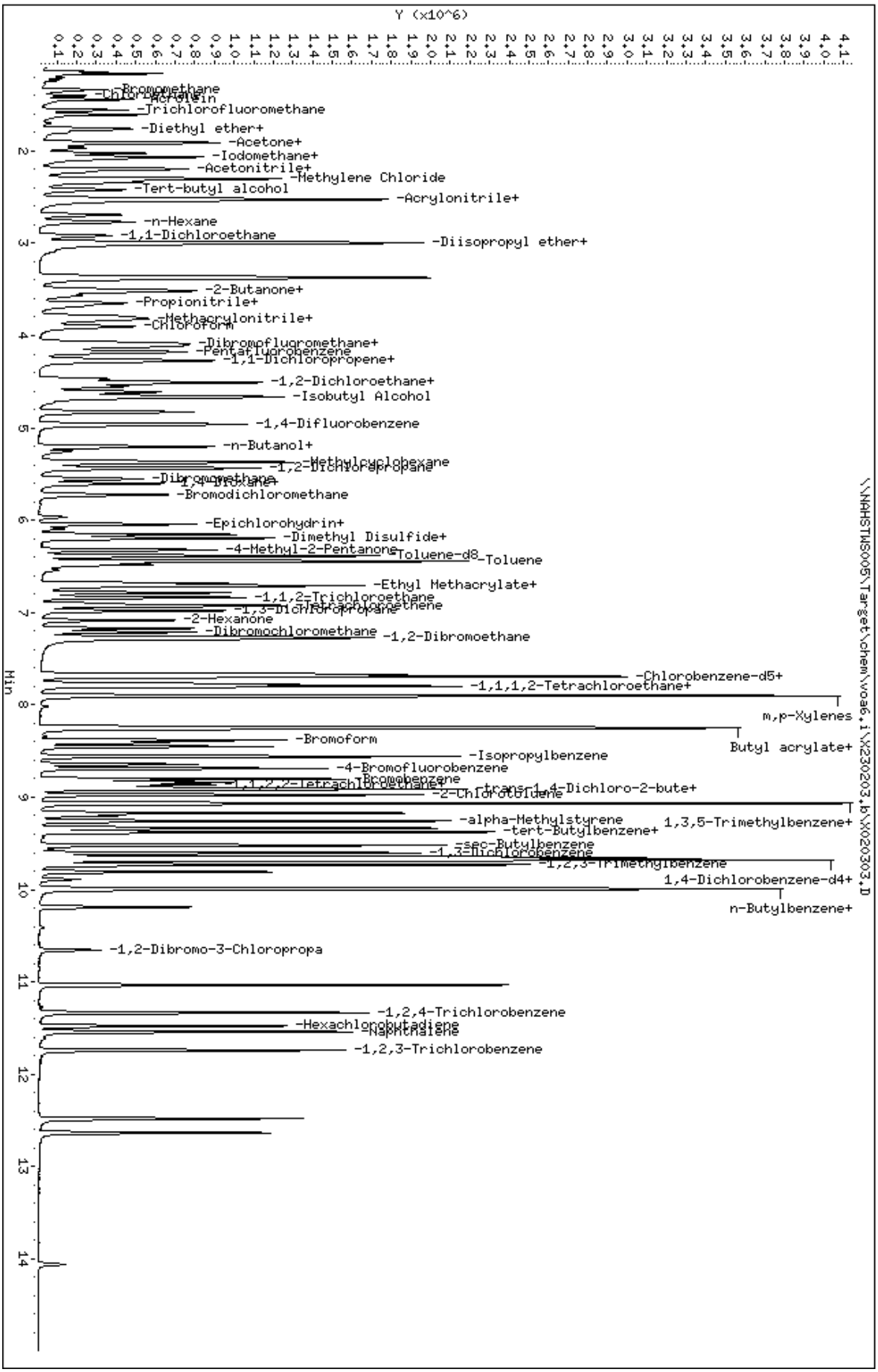
67	Isopropylbenzene	105	8.560	8.560 (1.116)	1163860	50.0000	52.88
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	382870	50.0000	53.11

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020303.D Page 3
Report Date: 13-Feb-2023 14:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	383353	50.0000	50.62
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	452221	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	299510	50.0000	59.52(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1381074	50.0000	55.13
	74 Bromobenzene	156	8.803	8.803	(0.911)	387180	50.0000	52.18
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1021258	50.0000	55.18
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	896649	50.0000	54.54
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	1039496	50.0000	55.47
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	828015	50.0000	54.66
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1052982	50.0000	54.08
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1141864	50.0000	56.65
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	1043900	50.0000	57.80
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	661686	50.0000	53.73
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	689268	50.0000	51.29
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	920792	50.0000	52.80
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	659613	50.0000	52.00
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	67206	50.0000	58.30
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	479293	50.0000	59.88(M)
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	212219	50.0000	59.69
	92 Naphthalene	128	11.540	11.540	(1.194)	1121101	50.0000	61.56
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	446545	50.0000	58.25
M	94 1,2-Dichloroethylene (total)	96				514562	100.000	(a)
	141 Cyclohexane	56	4.117	4.117	(0.987)	301771	50.0000	50.38
	138 Freon TF	101	1.913	1.913	(0.458)	190748	50.0000	43.73
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	675063	50.0000	62.58
	146 Methyl Acetate	43	2.228	2.228	(0.534)	141998	50.0000	53.11
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.581)	504066	1000.00	1225.35
	149 Isopropyl Alcohol	45	2.089	2.089	(0.501)	277859	1000.00	1293.36

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa6.i
Operator: PC
Column diameter: 0.18
\\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020303.D
Bromomethane
Chloroethane
Acrolein
-Trichlorofluoromethane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Diisopropyl ether+
-2-Butanone+
-Propionitrile+
-Methacrylonitrile+
-Chloroform
-Dibromofluoromethane+
-Pentafluorobenzene
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol
-1,4-Difluorobenzene
-n-Butanol+
-Methylcyclohexane
-1,2-Dichloropropane
-Dibromomethane
1,4-Dioxane+
-Bromodichloromethane
-Epichlorohydrin+
-Dimethyl Disulfide+
-4-Methyl-2-Pentanone
Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
Tetrachloroethene
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
Butyl acrylate+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
Bromobenzene
1,1,2,2-Tetrachloroethane+
trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-alpha-Methylstyrene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
sec-Butylbenzene
1,3-Dichlorobenzene
1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
Naphthalene
-1,2,3-Trichlorobenzene

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Inj Date : 03-FEB-2023 11:02
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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229141
09-Feb-2023
17:24
Kori
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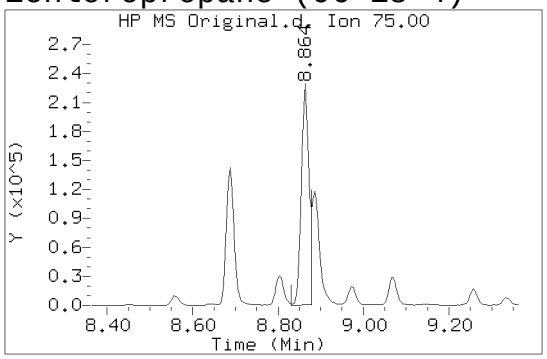

AFTER

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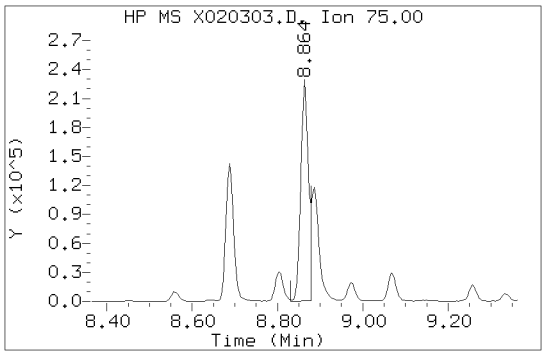

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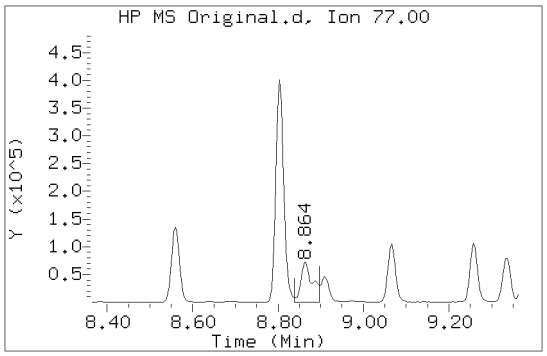

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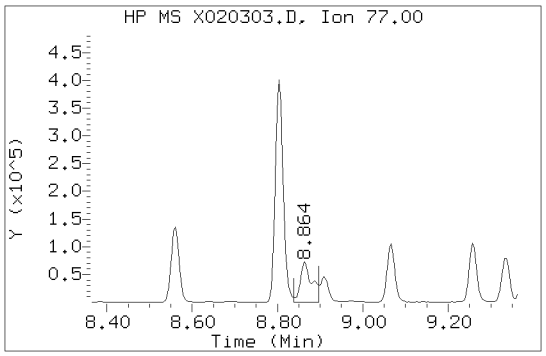

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE

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17:24
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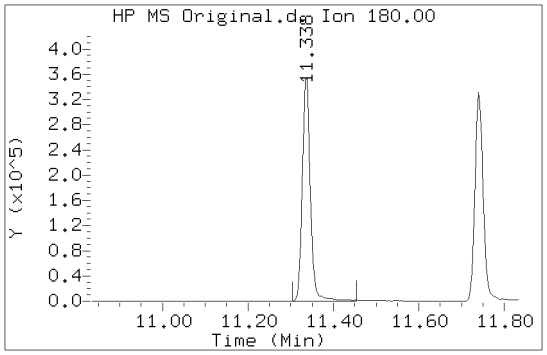

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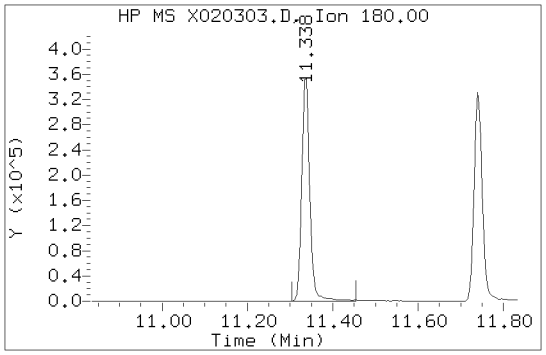

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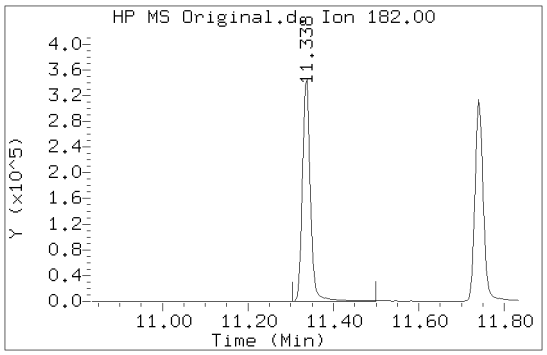

AFTER

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HEIGHT
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13-Feb-2023
14:07
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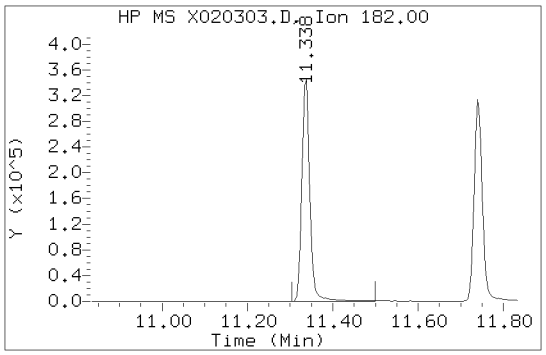

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Inj Date : 03-FEB-2023 11:02
InstruID : voa6.i
LabSampID : CCV

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

Reason Code:

BEFORE

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HEIGHT
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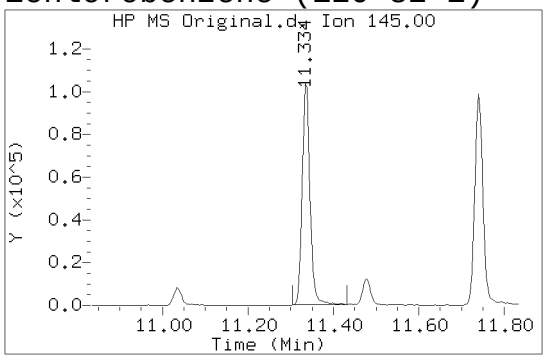
09-Feb-2023
17:24
Kori
Bagsby



AFTER

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HEIGHT
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13-Feb-2023
14:07
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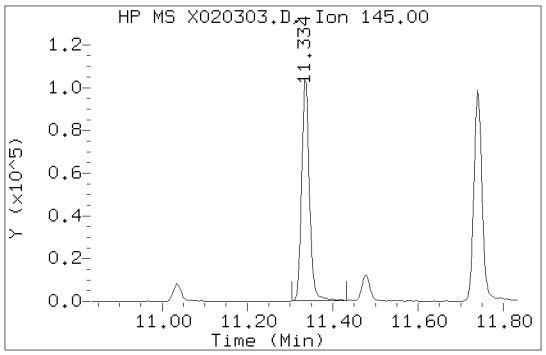

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Report Date: 09-Feb-2023 17:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020304.D
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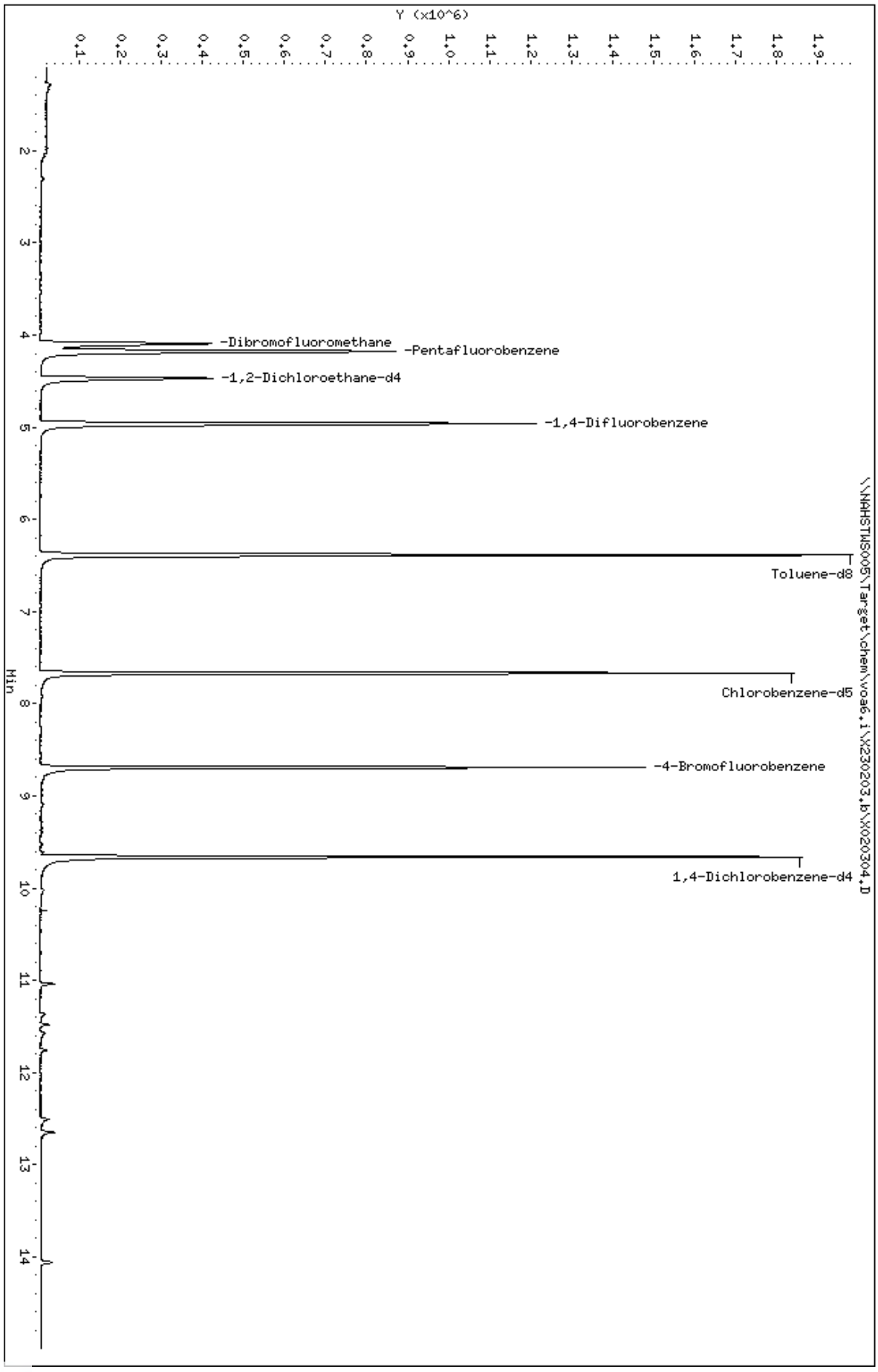
Inj Date : 03-FEB-2023 11:23
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230203.b\8260W.m
Meth Date : 09-Feb-2023 17:24 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

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	4.178	4.174	(1.000)	723831	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	309331	44.4885	44.48
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	347005	47.3174	47.31
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	1024527	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	910274	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1177579	52.3519	52.35
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	432540	51.4435	51.44
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	466160	50.0000	



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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020305.D Page 1
Report Date: 13-Feb-2023 14:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020305.D
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Inj Date : 03-FEB-2023 11:44
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230203;VLCSW-230203;3;;LCS
Misc Info : V6;WATER;0;1;
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Meth Date : 13-Feb-2023 14:07 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.174	4.174	(1.000)	593012	50.0000	
135	1,4-Dioxane	88	5.602	5.594	(1.342)	26039	480.358	480.35(a)
140	1,3-Butadiene	54	1.160	1.163	(0.278)	72951	17.9243	17.92
25	Methacrylonitrile	41	3.821	3.814	(0.916)	93277	22.2140	22.21
12	Isobutyl Alcohol	43	4.672	4.668	(1.119)	297419	445.900	445.90
13	Acetonitrile	39	2.194	2.194	(0.526)	106038	196.470	196.47
14	Allyl Chloride	41	2.194	2.194	(0.526)	217414	21.1508	21.15
4	Propionitrile	54	3.649	3.645	(0.874)	132239	218.546	218.54(a)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	38795	21.4113	21.41
130	Ethyl Acetate	43	3.653	3.649	(0.875)	108167	23.3754	23.37
40	Methyl Methacrylate	41	5.606	5.602	(1.343)	94857	23.4593	23.45
49	Ethyl Methacrylate	69	6.708	6.708	(1.352)	100935	24.4060	24.40
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	29679	38.3666	38.36
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	207977	20.2316	20.23
156	Diisopropyl ether	45	2.993	2.993	(0.717)	311769	20.2668	20.26
200	Dimethyl Disulfide	94	6.194	6.194	(0.808)	226728	19.9593	19.95
182	Epichlorohydrin	57	6.097	6.093	(1.229)	38133	98.2417	98.24
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	432747	19.3698	19.36
2	Dichlorodifluoromethane	85	0.969	0.969	(0.232)	179582	43.3508	43.35
3	Chloromethane	50	1.074	1.077	(0.257)	108878	21.6069	21.60

5 Vinyl Chloride	62	1.141	1.141 (0.273)	92409	17.8386	17.83
6 Bromomethane	94	1.336	1.340 (0.320)	66773	18.2049	18.20

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020305.D Page 2
Report Date: 13-Feb-2023 14:07

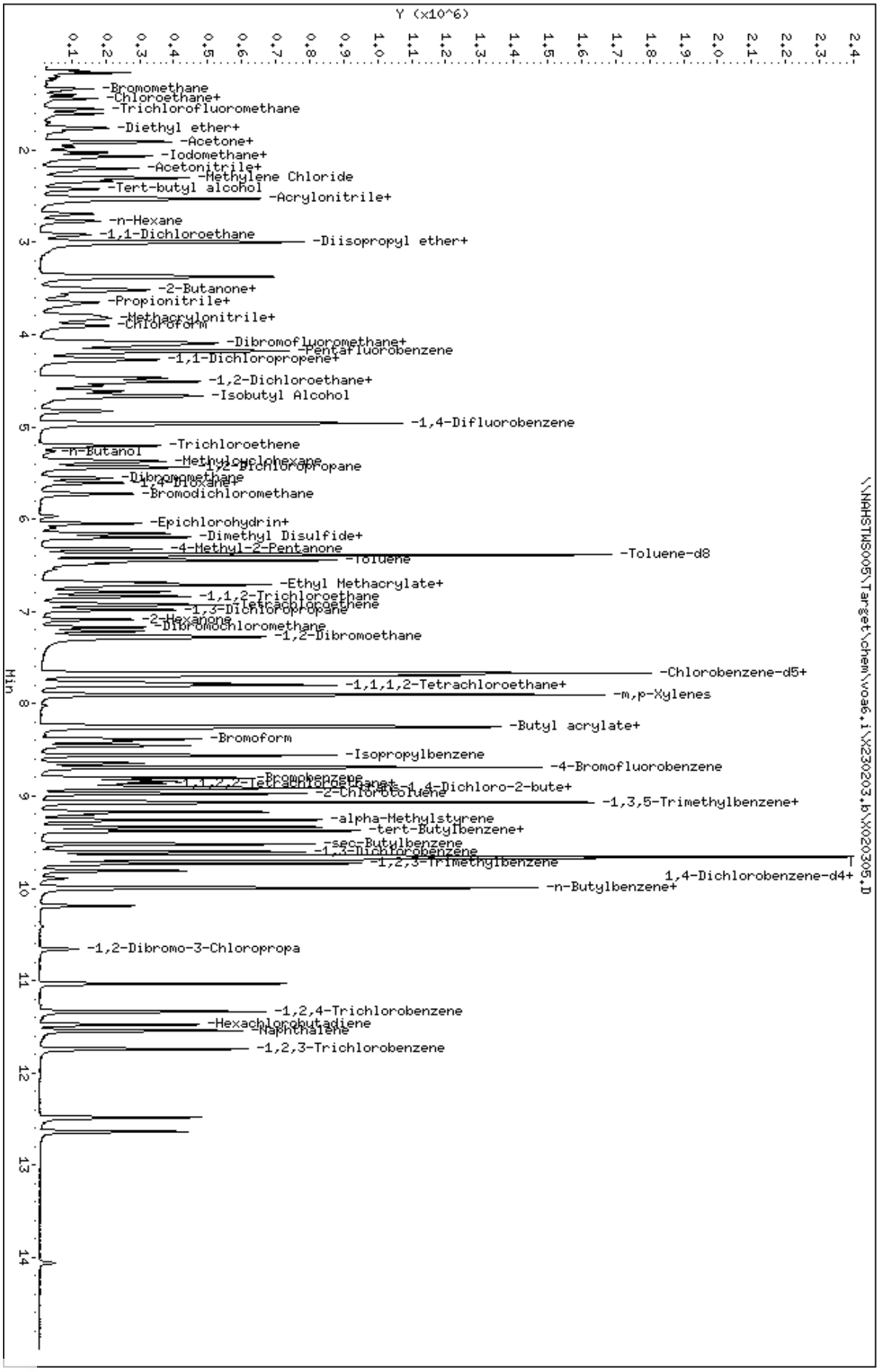
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	7 Chloroethane	64	1.400	1.400	(0.335)	61601	17.0846	17.08
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	131779	18.1782	18.17
	9 Acrolein	56	1.441	1.441	(0.345)	12633	33.0922	33.09
	10 Acetone	43	1.970	1.969	(0.472)	75330	45.2533	45.25
	11 1,1-Dichloroethene	96	1.910	1.909	(0.458)	75991	16.8843	16.88
	15 Iodomethane	142	2.026	2.026	(0.485)	201404	37.0465	37.04
	16 Acrylonitrile	53	2.532	2.528	(0.607)	63083	41.3264	41.32
	17 Methylene Chloride	84	2.299	2.299	(0.551)	118871	19.2551	19.25
	18 Methyl tert-butyl ether	73	2.532	2.528	(0.607)	307869	20.8984	20.89
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	419412	35.6175	35.61
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	97523	19.3610	19.36
	21 Vinyl Acetate	43	2.993	2.993	(0.717)	577970	44.6930	44.69
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	169962	19.2261	19.22
	24 2-Butanone	43	3.574	3.570	(0.856)	75869	44.7110	44.71
	26 2,2-Dichloropropane	77	3.503	3.506	(0.839)	155754	20.7511	20.75
	27 cis-1,2-Dichloroethene	96	3.522	3.521	(0.844)	114057	18.6062	18.60
	28 Chloroform	83	3.904	3.900	(0.935)	194042	19.5840	19.58
	29 Bromochloromethane	128	3.795	3.791	(0.909)	61540	18.3354	18.33
$	30 Dibromofluoromethane	113	4.091	4.095	(0.980)	259774	45.6071	45.60
	31 1,1,1-Trichloroethane	97	4.076	4.080	(0.977)	159181	20.2488	20.24
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	133145	21.3544	21.35
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	159235	22.1293	22.12
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	131837	19.8010	19.80
$	35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.070)	297855	49.5622	49.56
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	878233	50.0000	
	37 Benzene	78	4.511	4.507	(0.909)	420351	20.0434	20.04
	38 Trichloroethene	130	5.205	5.205	(1.049)	121987	20.5078	20.50
	39 Bromodichloromethane	83	5.726	5.726	(1.154)	158769	20.1723	20.17
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	117815	52.6157	52.61
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	110060	19.7287	19.72
	44 Dibromomethane	93	5.550	5.549	(1.119)	75814	19.9941	19.99
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	207998	46.3641	46.36
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	193539	20.9380	20.93
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	839324	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	977988	47.1540	47.15
	50 Toluene	91	6.445	6.445	(0.841)	462133	19.9202	19.92
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	167642	21.8541	21.85
	52 2-Hexanone	43	7.086	7.083	(0.924)	147758	48.4095	48.40
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	94219	20.2441	20.24
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	192190	20.9795	20.97
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	136212	20.2779	20.27
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	97835	20.3823	20.38
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	125106	21.4993	21.49
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	92984	21.9084	21.90
	59 Chlorobenzene	112	7.694	7.694	(1.003)	326285	19.8289	19.82
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	124064	20.2596	20.25
	61 Ethylbenzene	106	7.799	7.799	(1.017)	160785	20.7433	20.74
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	405230	40.5548	40.55
	63 o-Xylene	106	8.241	8.241	(1.075)	199278	20.2063	20.20
	64 Styrene	104	8.260	8.256	(1.077)	346645	20.9704	20.97
	66 Bromoform	173	8.410	8.410	(1.097)	95639	20.5516	20.55
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	472043	20.9504	20.95

	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	158004	21.3674	21.36
$	69 4-Bromofluorobenzene	95	8.687	8.687 (1.133)	384015	49.5354	49.53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	463946	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	118633	22.9803	22.98(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	558677	21.7397	21.73
	74 Bromobenzene	156	8.803	8.803	(0.911)	159208	20.9161	20.91
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	416922	21.9614	21.96
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	371000	22.0000	22.00
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	425959	22.1573	22.15
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	333128	21.4370	21.43
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	430318	21.5425	21.54
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	452247	21.8726	21.87
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	414306	22.3611	22.36
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	272619	21.5786	21.57
	84 1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	289237	20.9801	20.98
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	357127	21.0653	21.06
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	276531	21.2530	21.25
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	27275	23.1206	23.12
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	193891	23.6126	23.61
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	81645	22.5541	22.55
	92 Naphthalene	128	11.544	11.540	(1.195)	439629	23.5312	23.53
	93 1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	181782	23.1148	23.11
M	94 1,2-Dichloroethylene (total)	96				211580	37.9671	37.96
M	95 Xylenes (total)	106				604508	60.7610	60.76
	141 Cyclohexane	56	4.118	4.117	(0.987)	124917	21.6320	21.63
	138 Freon TF	101	1.910	1.913	(0.458)	76720	17.6243	17.62
	147 Methylcyclohexane	55	5.381	5.377	(1.085)	237956	22.1348	22.13
	146 Methyl Acetate	43	2.228	2.228	(0.534)	56673	21.2384	21.23
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.581)	205592	500.686	500.68
	149 Isopropyl Alcohol	45	2.090	2.089	(0.501)	108494	505.927	505.92

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 03-FEB-2023 11:44
InstruID : voa6.i
LabSampID : VLCSW-230203

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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HEIGHT
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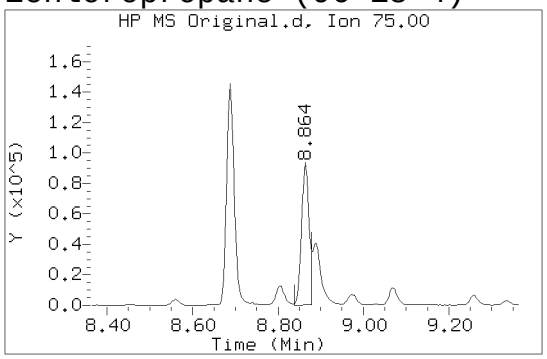
09-Feb-2023
17:24
Kori
Bagsby



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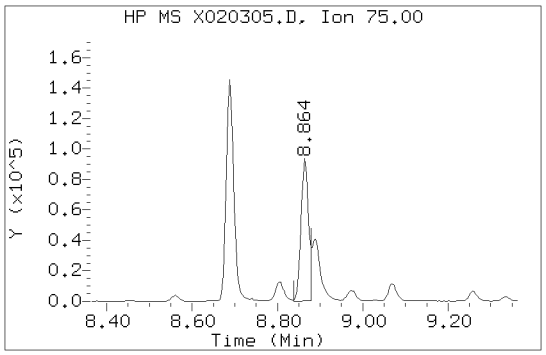

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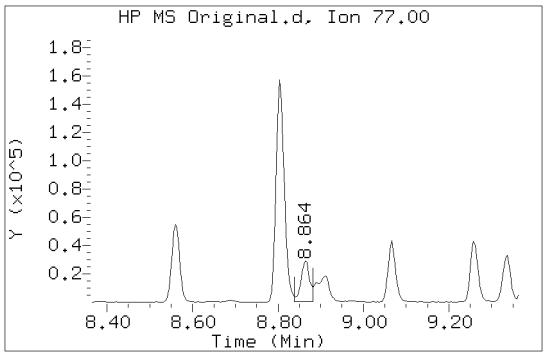

AFTER

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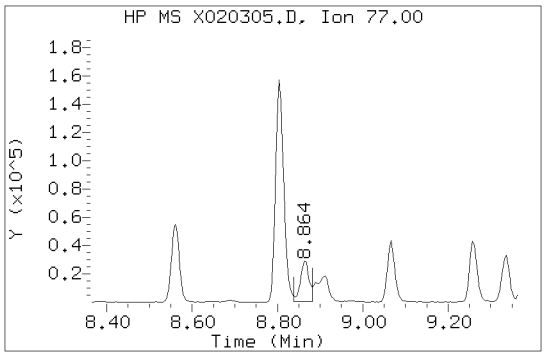

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Report Date: 14-Feb-2023 12:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230203.b\X020307.D
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Inj Date : 03-FEB-2023 12:26
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230203;VBLKW-230203;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
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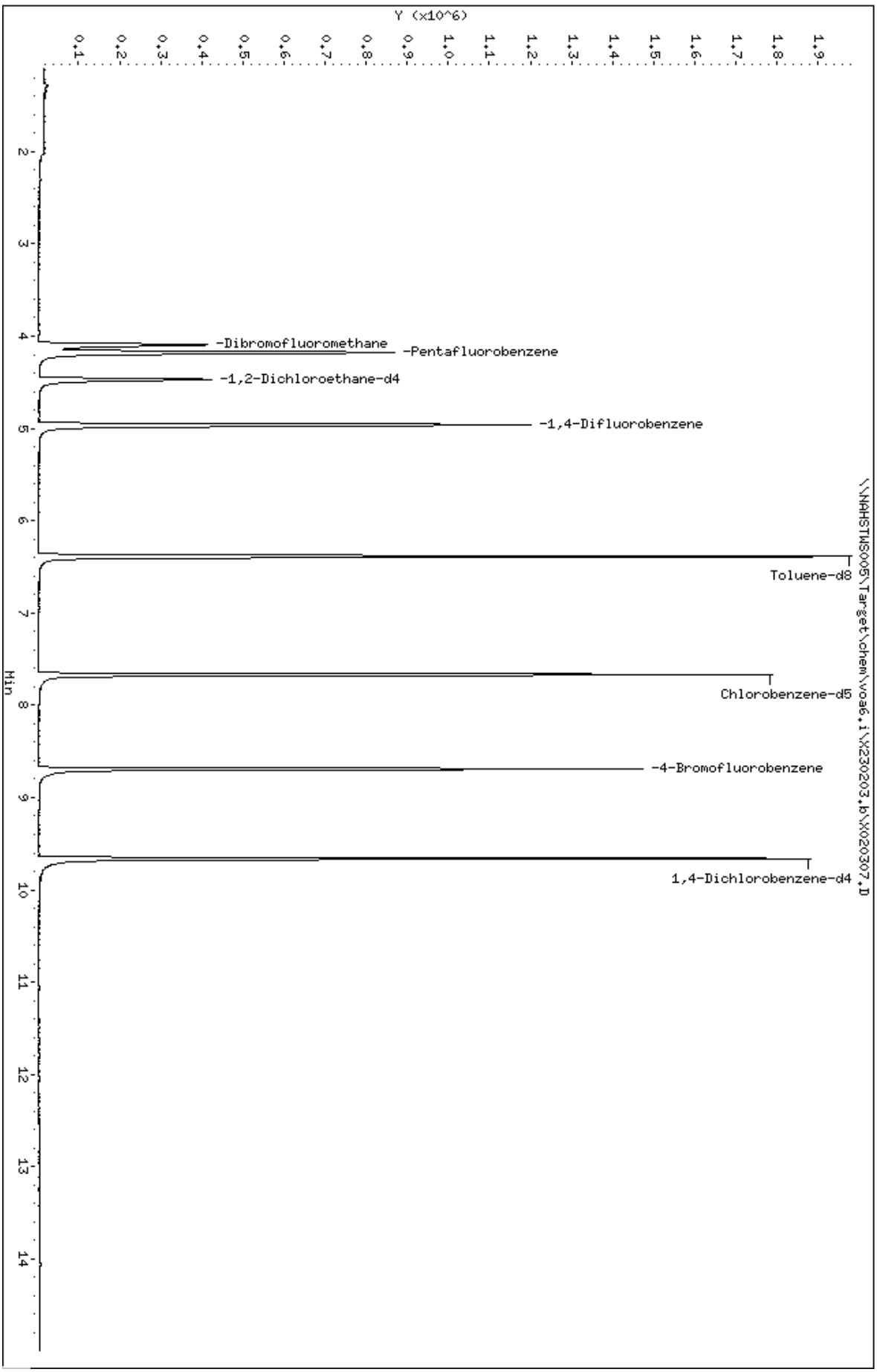
Meth Date : 13-Feb-2023 14:09 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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	4.174	4.178	(1.000)	725153	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	308263	44.2531	44.25
$ 35 1,2-Dichloroethane-d4	65	4.466	4.470	(1.070)	348254	47.4007	47.40
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	1022005	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	915781	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	1184056	52.3233	52.32
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	437185	51.6830	51.68
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	467996	50.0000	



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Page 1