LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 11

2025

Bate Stamp Numbers
01307559 – 01309527

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2025

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

VOLUME 11

2025

A. Title: (Cont'd) Report – Appendix C labs File 3 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Longhorn Army Ammunition Plant
Date: March 7, 2025
Bate Stamp: 01307559–01308373

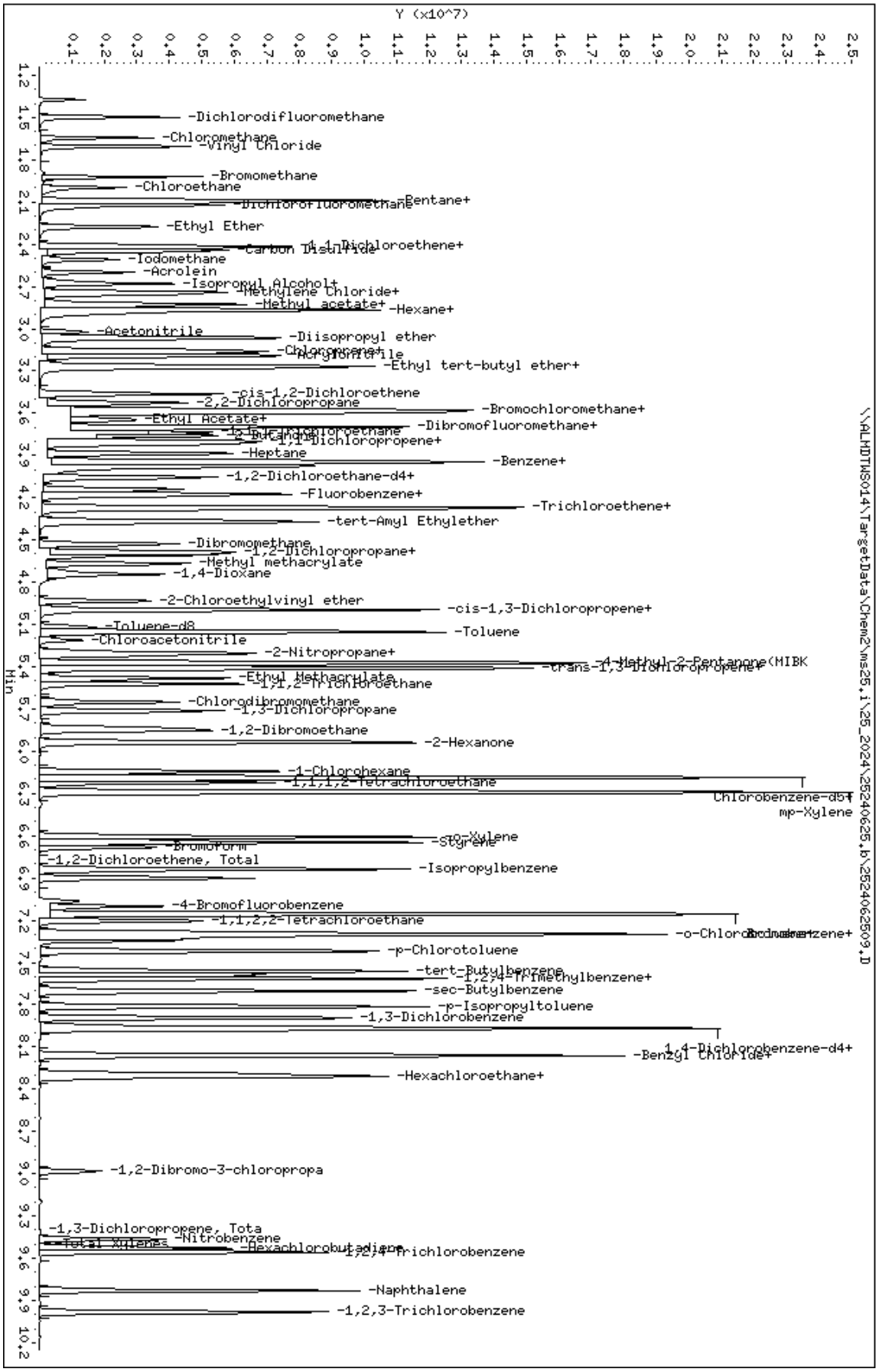
B. Title: Report – Appendix F labs File 1 to Draft Quarterly Evaluation Report, 2nd Quarter (April-June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Longhorn Army Ammunition Plant
Date: March 7, 2025
Bate Stamp: 01308374–01309527

Data File: 2524062509.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	2747208	200.000	197.168	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	1455486	200.000	205.900(A)	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	2002816	200.000	198.766	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	2931716	200.000	209.909(A)	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	1854429	200.000	196.399	
	81 2-Hexanone	43	5.938	5.933	(0.962)	6043549	1000.00	966.370(A)	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	2598392	200.000	214.677(A)	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	458486	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	4976299	200.000	212.244(A)	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	2724522	200.000	199.145	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	1749666	200.000	196.705	
	87 mp-Xylene	106	6.287	6.288	(1.019)	6367993	400.000	393.536(A)	
	88 o-Xylene	106	6.609	6.610	(1.071)	3066270	200.000	196.521	
	89 Styrene	104	6.648	6.648	(0.836)	4976988	200.000	202.321(AM)	MP
	90 Bromoform	173	6.680	6.686	(0.840)	1437569	200.000	206.673(A)	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	6796201	200.000	198.663	
M	100 1,2-Dichloroethene, Total	61				4577075	400.000	422.780	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	328983	30.0000	28.7193	
	93 Bromobenzene	156	7.155	7.156	(0.900)	2134822	200.000	218.064(A)	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	2189906	200.000	218.753(A)	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	2194263	200.000	225.506(A)	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	5793534	200.000	219.965(A)	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	5987392	200.000	214.902(A)	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	681141	200.000	217.039(A)	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	609147	200.000	203.114(AM)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	5152023	200.000	215.954(A)	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	1465252	200.000	219.893(A)	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	1367796	200.000	203.511(AM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	5884390	200.000	199.913	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	7352965	200.000	213.536(A)	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	1743745	200.000	221.134(A)	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	3602650	200.000	218.432(A)	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	414069	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	3762667	200.000	218.865(A)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	867235	200.000	208.955(AQ)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	1593183	200.000	216.199(A)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	1225691	200.000	206.207(A)	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	3512145	200.000	223.550(A)	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	386483	200.000	206.383(A)	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	1663438	2000.00	1994.71(A)	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	1058167	200.000	202.812(A)	
M	120 1,3-Dichloropropene, Total	75				5974396	400.000	398.291	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	2422661	200.000	232.854(A)	
M	121 Total Xylenes	106				9434263	600.000	590.057	
	118 Naphthalene	128	9.829	9.829	(1.236)	6235557	200.000	202.911(A)	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	2411703	200.000	205.392(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.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Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Dibromofluoromethane+
-Heptane
-Benzene+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene
-Chloroacetonitrile
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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LabSampID : 1239

Iodomethane (74-88-4)

Reason Code: MP

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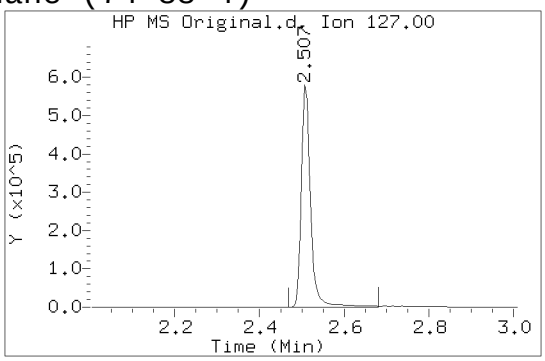

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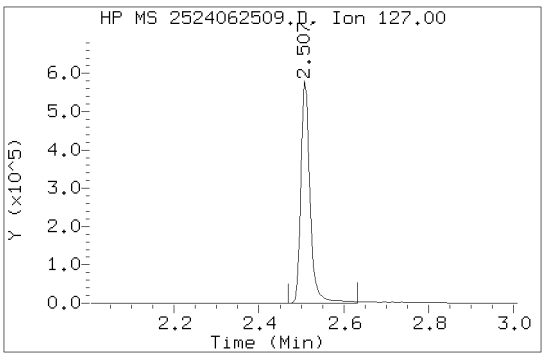

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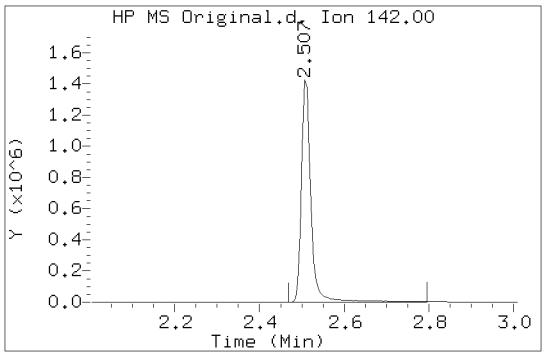

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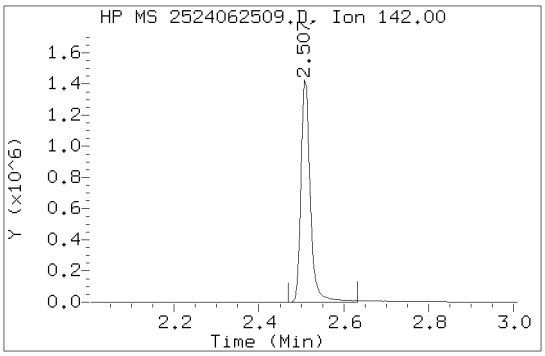

Acrylonitrile (107-13-1)

Reason Code: MP

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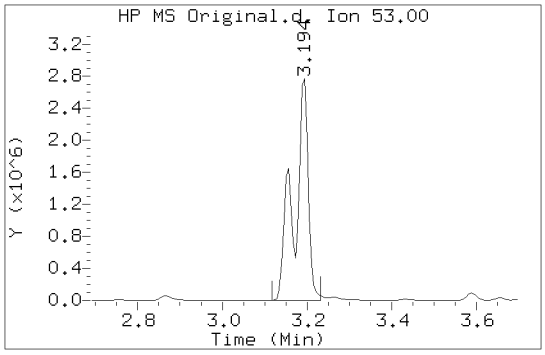

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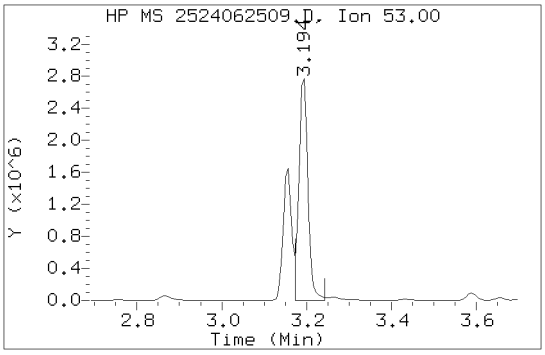

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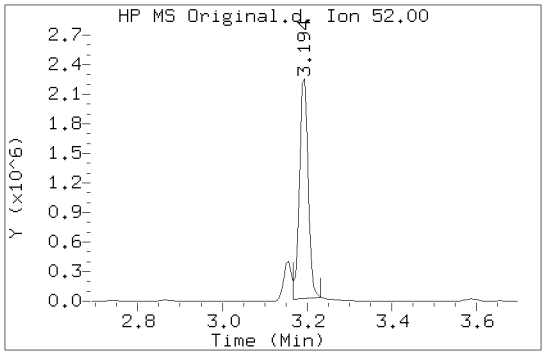

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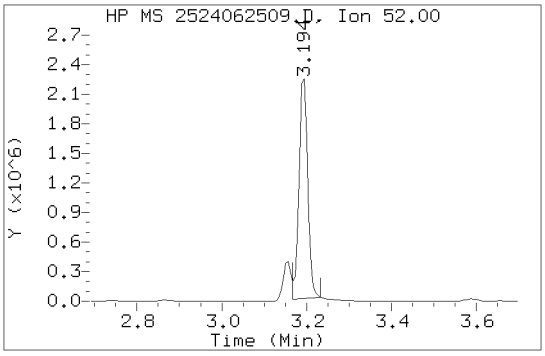

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LabSampID : 1239

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Reason Code: MP

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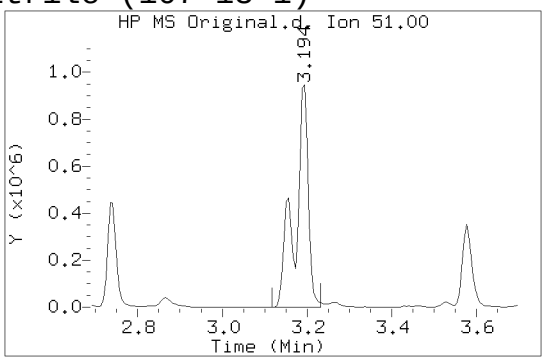

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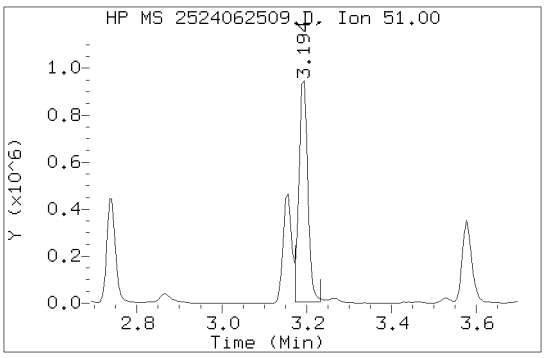

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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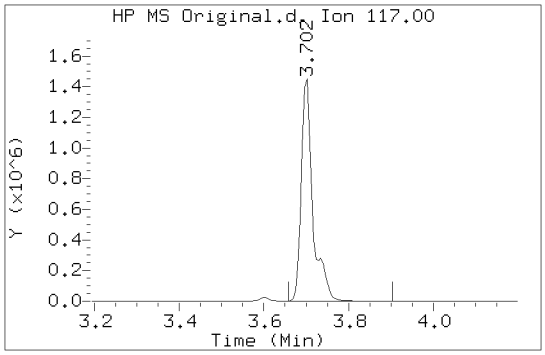

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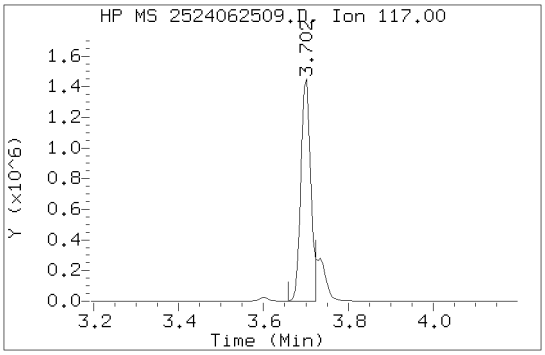

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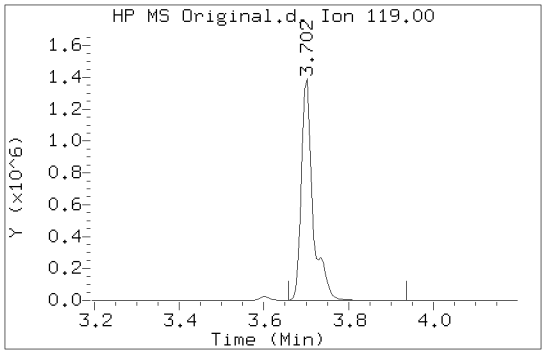

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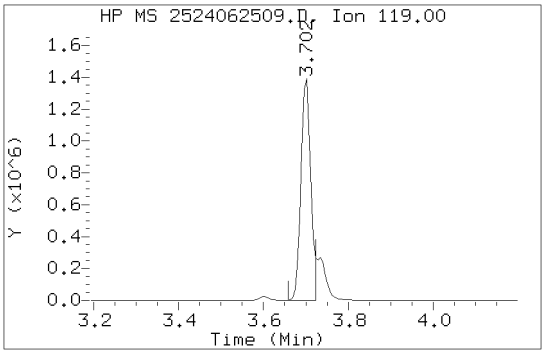

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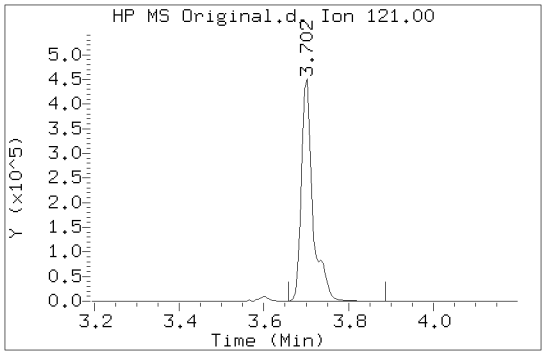

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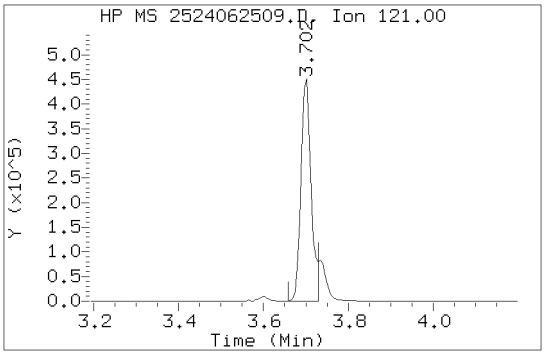

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LabSampID : 1239

2-Butanone (78-93-3)

Reason Code: MP

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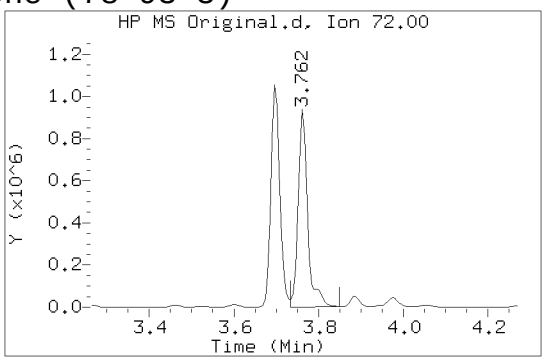

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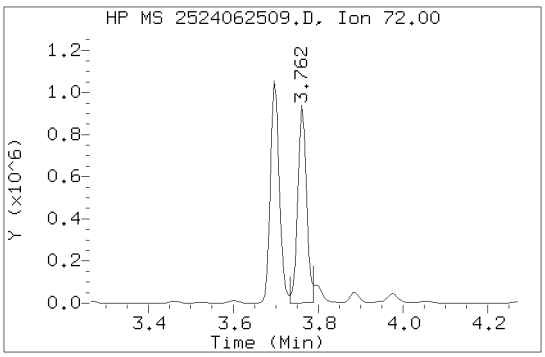

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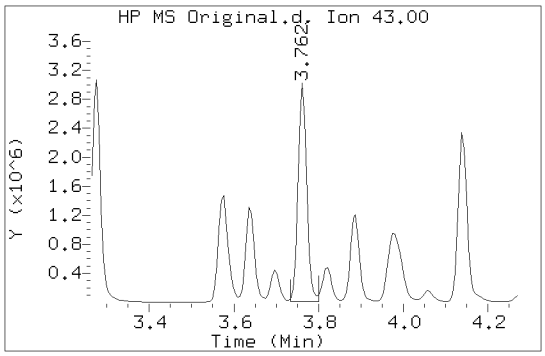

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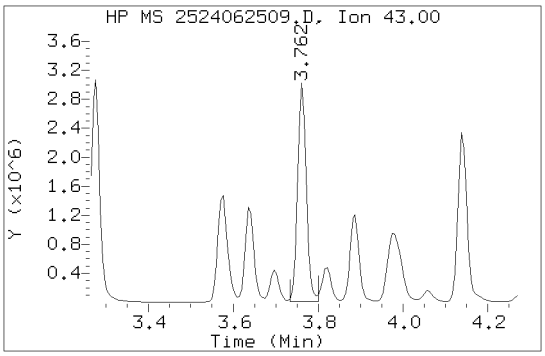

Isobutyl alcohol (78-83-1)

Reason Code: MP

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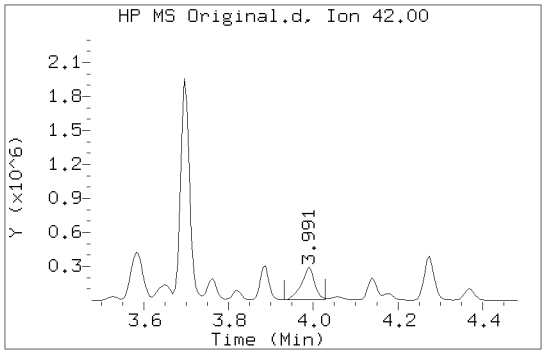

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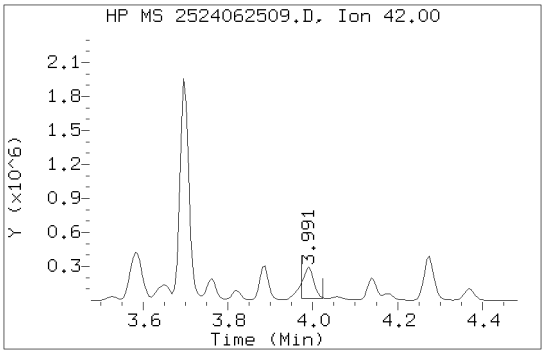

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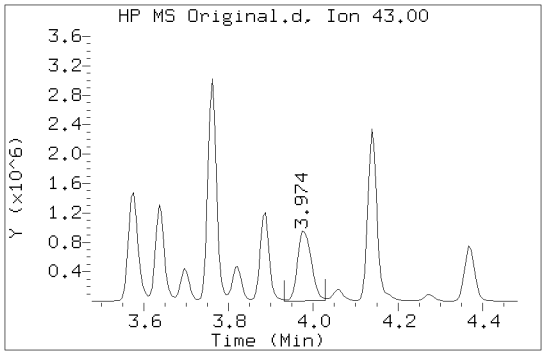

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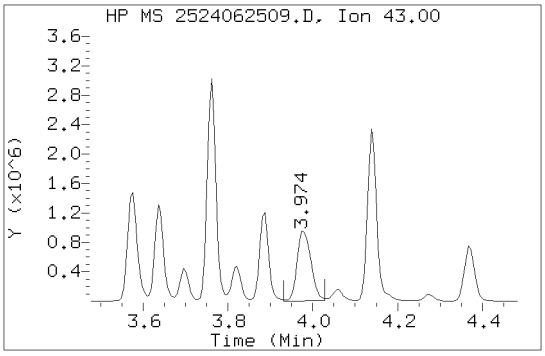

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Isobutyl alcohol (78-83-1)

Reason Code: MP

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25-Jun-2024
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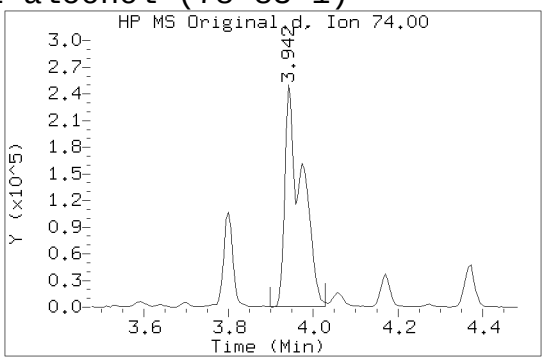

AFTER
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HEIGHT
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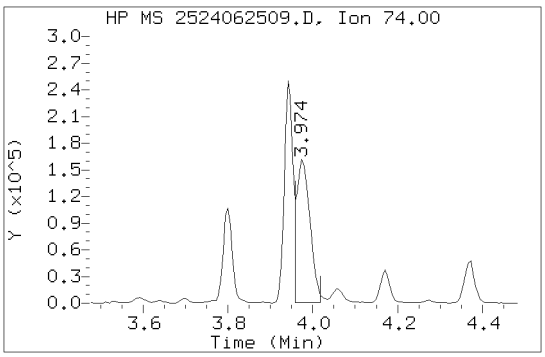
25-Jun-2024
19:31



Styrene (100-42-5)

Reason Code: MP

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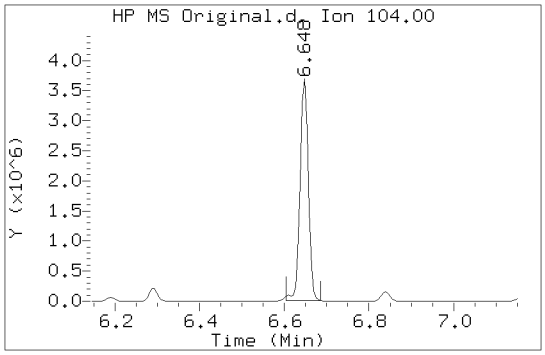

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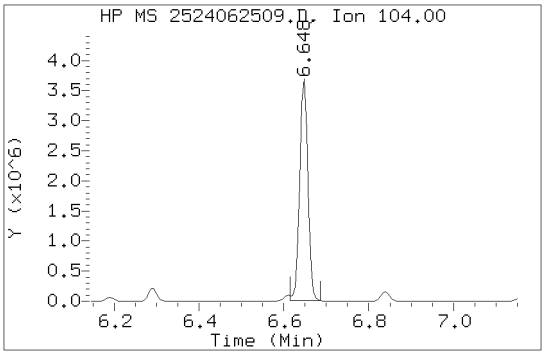

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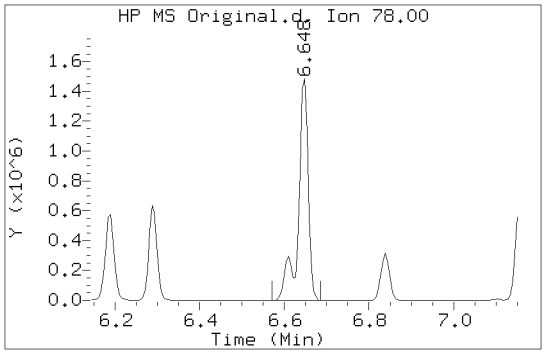

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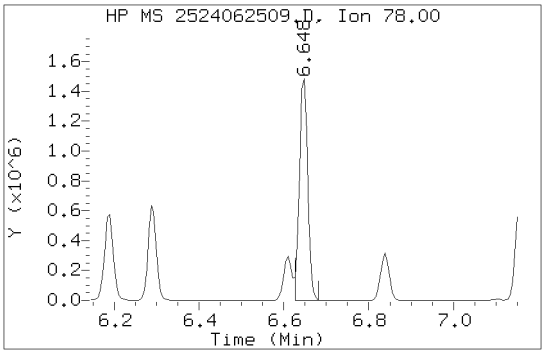

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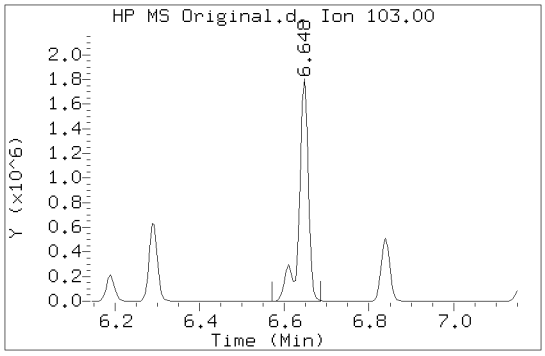

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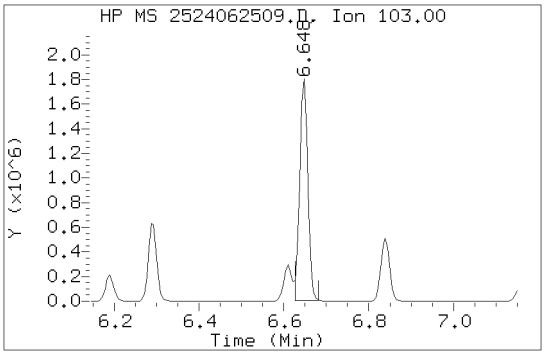

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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

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

Reason Code: MP

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25-Jun-2024
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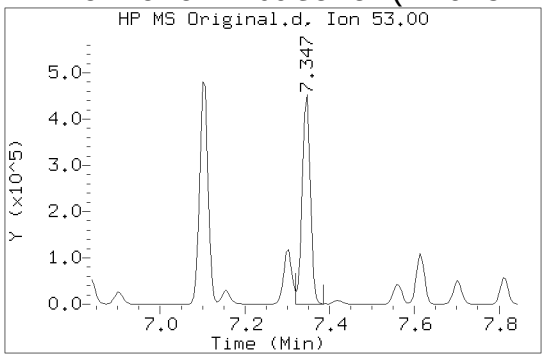

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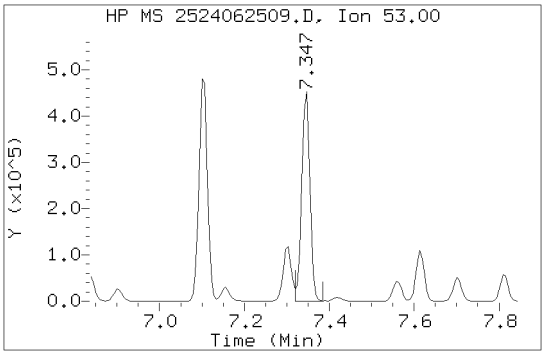

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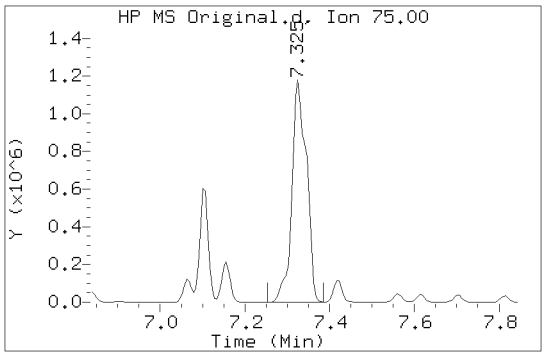

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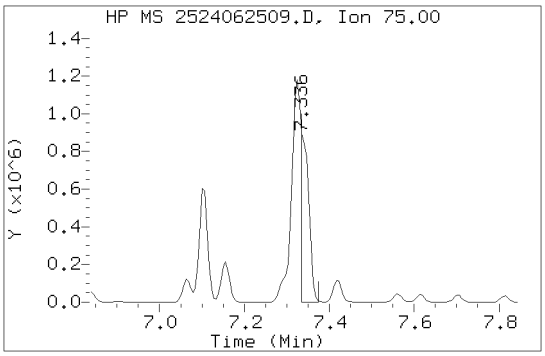

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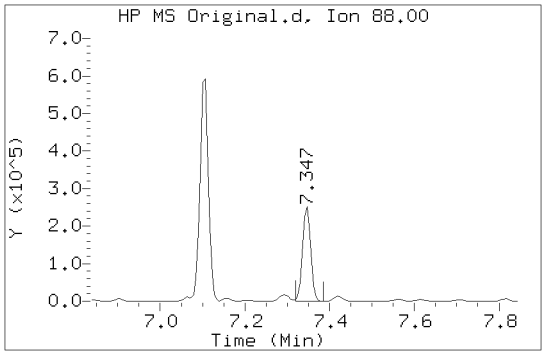

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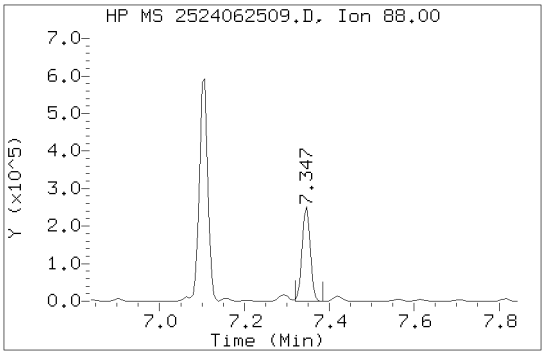

Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
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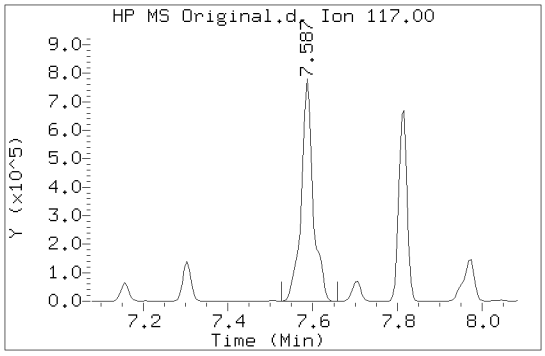
25-Jun-2024
18:25



AFTER
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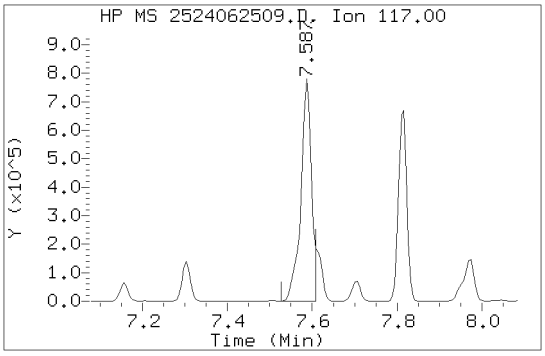

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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

Pentachloroethane (76-01-7)

Reason Code: MP

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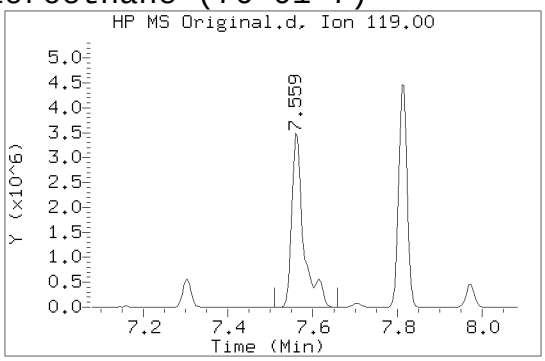
25-Jun-2024
18:25



AFTER

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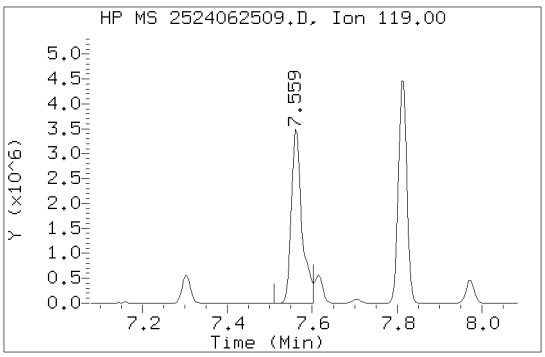
25-Jun-2024
19:31



BEFORE

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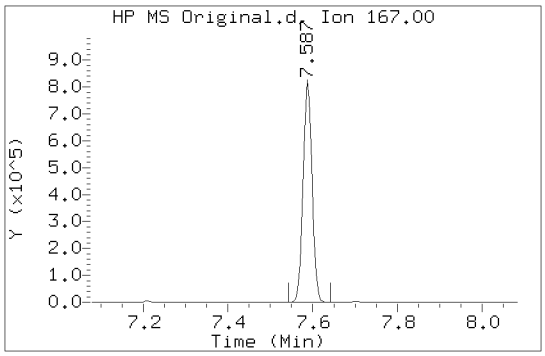
25-Jun-2024
18:25



AFTER

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25-Jun-2024
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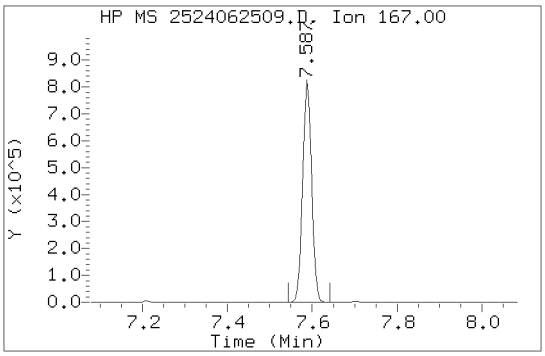

UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 13:05
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062515ICVQ.D Page 1
Report Date: 25-Jun-2024 19:30

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062515ICV
Lab Smp Id: ICVQ
Inj Date : 25-JUN-2024 15:08
Operator : ILY Inst ID: ms25.i
Smp Info : ICVQ;;1;3;;ICVQ;1;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 15 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	251951	20.6685	20.6685	
2 Chloromethane	50	1.644	1.645	(0.394)	208848	19.5473	19.5473	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	280887	20.3829	20.3829	
4 Bromomethane	94	1.922	1.923	(0.461)	135606	20.2997	20.2997	
5 Chloroethane	64	1.999	2.005	(0.479)	198690	21.1689	21.1689	
6 Pentane	41	2.086	2.092	(0.500)	183202	20.7239	20.7239	
7 Trichlorofluoromethane	101	2.092	2.103	(0.502)	384907	20.3916	20.3916	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	405133	23.1960	23.1960	
9 Ethyl Ether	74	2.277	2.278	(0.546)	114503	21.5588	21.5588	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	241984	22.8323	22.8323	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	495835	21.6876	21.6876	
11 Freon 113	101	2.424	2.425	(0.581)	170212	22.8337	22.8337	
13 Iodomethane	127	2.506	2.507	(0.601)	67585	16.7923	16.7923	
14 Acrolein	56	2.599	2.600	(0.623)	272564	159.440	159.440	
16 3-Chloro-1-propene	41	2.675	2.676	(0.642)	210672	22.9067	22.9067	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	58549	102.932	102.932	
17 Methylene Chloride	84	2.735	2.741	(0.656)	192795	22.2700	22.2700	
18 Acetone	58	2.757	2.752	(0.661)	103013	107.400	107.400	
19 Methyl acetate	74	2.812	2.812	(0.674)	42205	21.1799	21.1799(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	238437	22.9700	22.9700	
21 Hexane	57	2.861	2.867	(0.686)	364566	20.9440	20.9440	

Data File: 2524062515ICVQ.D
Report Date: 25-Jun-2024 19:30

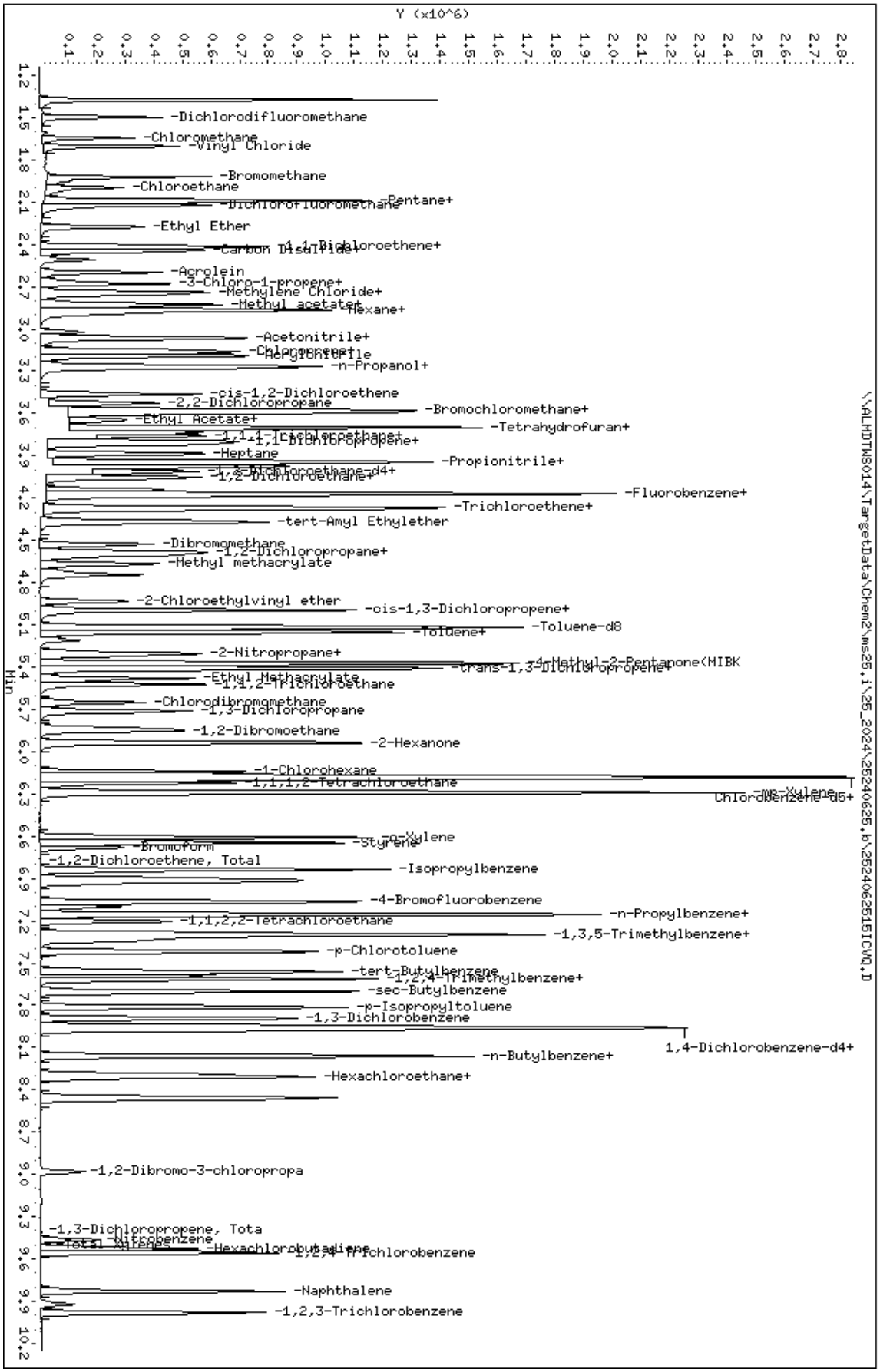
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	547401	20.6913	20.6913	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	107488	112.258	112.258	
	24 Acetonitrile	41	3.019	3.020	(0.724)	118663	110.637	110.637	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	518577	22.5098	22.5098	
	26 Chloroprene	53	3.156	3.156	(0.757)	267398	22.8940	22.8940	
	27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	319400	22.5851	22.5851	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	419174	113.810	113.810(M)	MP
	30 n-Propanol	41	3.265	3.260	(0.783)	94386	207.961	207.961	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	568234	23.2234	23.2234	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	45058	18.9056	18.9056(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	237502	22.5651	22.5651	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	231583	20.5462	20.5462	
M	100 1,2-Dichloroethene, Total	61				475939	45.5351	45.5351	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	106286	23.4167	23.4167	
	35 Cyclohexane	84	3.587	3.587	(0.860)	285137	22.5780	22.5780	
	36 Chloroform	83	3.597	3.598	(0.863)	348031	22.7965	22.7965	
	37 Ethyl acetate	43	3.636	3.642	(0.872)	183312	19.9738	19.9738	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	191793	22.6294	22.6294	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	217824	19.6529	19.6529(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	275680	106.398	106.398	
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	256125	29.4644	29.4644	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	280959	23.6438	23.6438	
	43 2-Butanone	72	3.761	3.767	(0.902)	137862	110.064	110.064(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	251179	22.3464	22.3464	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	155097	21.4567	21.4567	
	46 Heptane	71	3.887	3.887	(0.932)	136483	20.8997	20.8997	
	48 Propionitrile	54	3.941	3.942	(0.945)	155474	111.475	111.475	
	47 Benzene	78	3.941	3.942	(0.945)	744196	21.5406	21.5406	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	92810	22.1985	22.1985	
	50 tert-amyl methyl Ether	73	3.974	3.975	(0.953)	542174	22.9549	22.9549	
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	262361	28.6313	28.6313(M)	MP
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	34211	163.562	163.562(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	236551	21.7806	21.7806	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	83872	114.168	114.168	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1101692	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	452639	20.3518	20.3518	
	57 Trichloroethene	95	4.269	4.269	(1.024)	190652	21.8042	21.8042	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	304774	21.9417	21.9417	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	402469	19.7081	19.7081	
	60 Dibromomethane	93	4.525	4.526	(1.085)	123469	22.3369	22.3369	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	186337	22.4096	22.4096	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	233572	20.3931	20.3931	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	144674	21.9843	21.9843	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	120010	19.9453	19.9453	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	281300	19.5895	19.5895	
	67 Octane	85	5.000	5.000	(0.810)	115653	21.9595	21.9595	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	988189	29.1471	29.1471	
	69 Toluene	92	5.153	5.153	(0.835)	450960	20.9859	20.9859	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	62587	116.835	116.835	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	216627	93.1119	93.1119	
	72 1,1-Dichloro-2-propanone	63	5.316	5.317	(0.861)	21848	97.0977	97.0977(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	928220	109.950	109.950	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	266554	20.0483	20.0483	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	172484	22.0433	22.0433	

Data File: 2524062515ICVQ.D
Report Date: 25-Jun-2024 19:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.481	(0.888)	253851	19.7911	19.7911	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	147105	22.2809	22.2809	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	179731	19.4308	19.4308	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	297226	22.7852	22.7852	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	175686	20.1319	20.1319	
	81 2-Hexanone	43	5.933	5.933	(0.961)	623906	107.801	107.801	
	82 1-Chlorohexane	91	6.140	6.146	(0.995)	255005	22.5573	22.5573	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	428222	30.0000		
	85 Ethylbenzene	106	6.189	6.190	(1.003)	268551	20.8965	20.8965	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	479812	21.9107	21.9107	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	165593	20.2181	20.2181	
	87 mp-Xylene	106	6.288	6.288	(1.019)	633583	41.2141	41.2141	
M	120 1,3-Dichloropropene, Total	75				547854	39.6378	39.6378	
	88 o-Xylene	106	6.609	6.610	(1.071)	296259	20.3295	20.3295	
	89 Styrene	104	6.648	6.648	(0.836)	476196	21.1423	21.1423	
	90 Bromoform	173	6.680	6.686	(0.840)	117468	18.5434	18.5434	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	748030	23.7053	23.7053	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	306965	28.9025	28.9025	
M	121 TOTAL XYLENES	106				929842	61.5436	61.5436	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	202709	21.8398	21.8398	
	93 Bromobenzene	156	7.155	7.156	(0.900)	194158	21.3906	21.3906	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	202733	22.4719	22.4719	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	558673	21.6275	21.6275	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	534310	21.8801	21.8801	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	64224	22.0722	22.0722	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	54164	19.7417	19.7417(Q)	
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	488613	22.0900	22.0900	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	140218	22.6960	22.6960	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	109789	17.8854	17.8854(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	566890	20.6358	20.6358	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	727916	22.8001	22.8001	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	160341	21.9313	21.9313	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	341074	22.3044	22.3044	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	383907	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	348388	21.8570	21.8570	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	146071	21.3796	21.3796(Q)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	60049	16.0397	16.0397(Q)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	100711	18.6291	18.6291	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	325146	22.3217	22.3217	
	114 1,2-Dibromo-3-chloropropane	75	8.978	8.984	(1.129)	31004	18.2352	18.2352	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	86105	165.714	165.714	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	100478	20.9968	20.9968	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	225852	23.4132	23.4132	
	118 Naphthalene	128	9.829	9.829	(1.236)	556398	19.8177	19.8177	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	207382	19.3142	19.3142	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene+
-Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-m,p-Xylene+
Chlorobenzene-d5+
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Date : 25-JUN-2024 15:08
Client ID:
Sample Info: ICVQ;1;3;;ICVQ;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1

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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

Acrylonitrile (107-13-1)

Reason Code: MP

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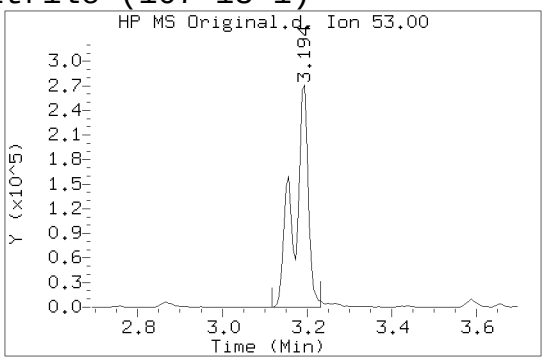
25-Jun-2024
19:15



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HEIGHT
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25-Jun-2024
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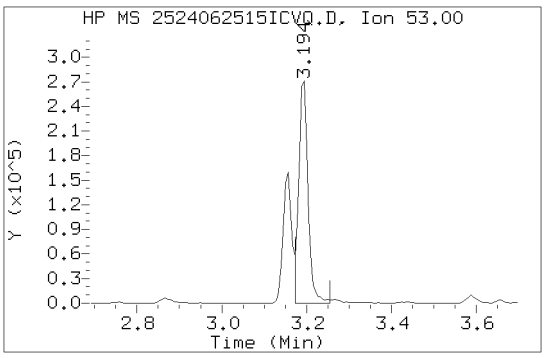

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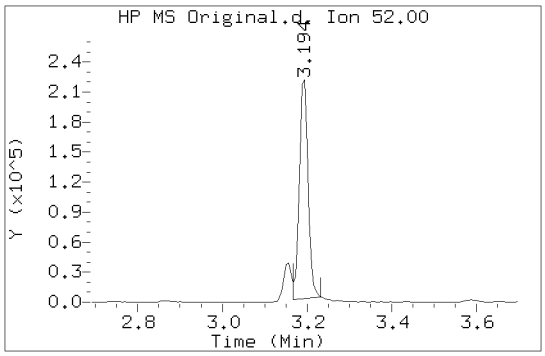
25-Jun-2024
19:15



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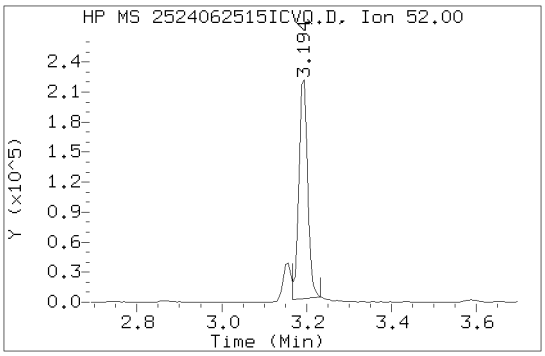

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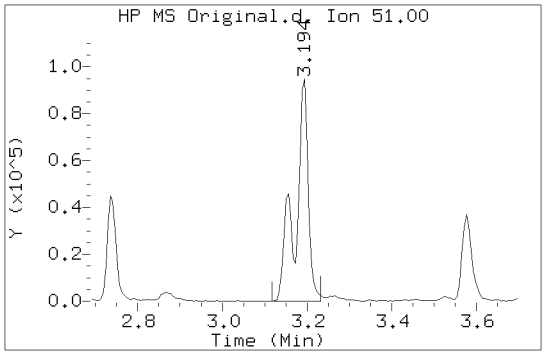

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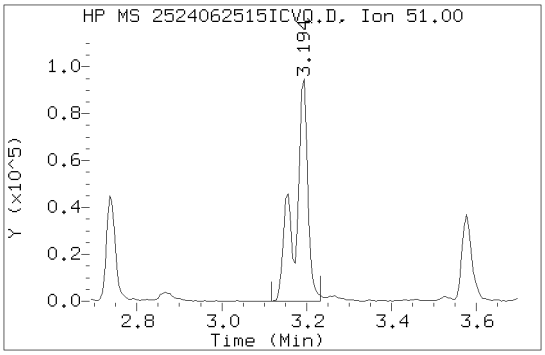

2-Butanone (78-93-3)

Reason Code: MP

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72
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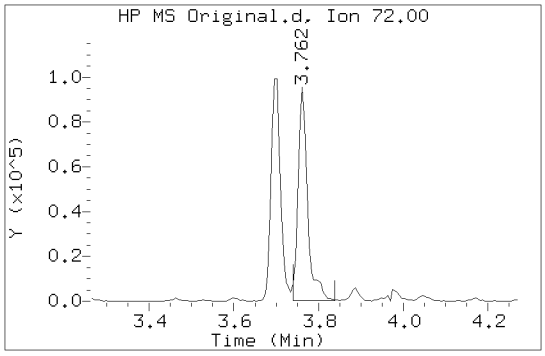
25-Jun-2024
19:15



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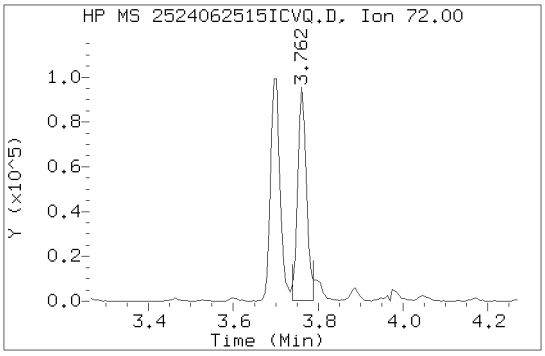
19:30



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InstruID : ms25.i
LabSampID : ICVQ

2-Butanone (78-93-3)

Reason Code: MP

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25-Jun-2024
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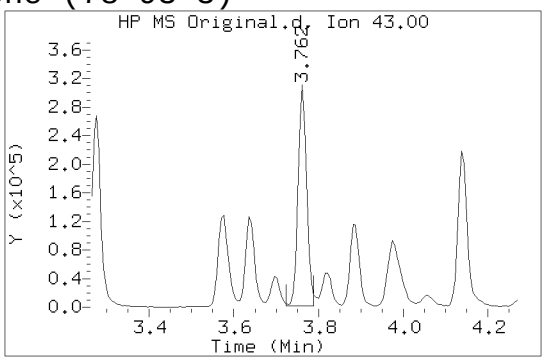

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25-Jun-2024
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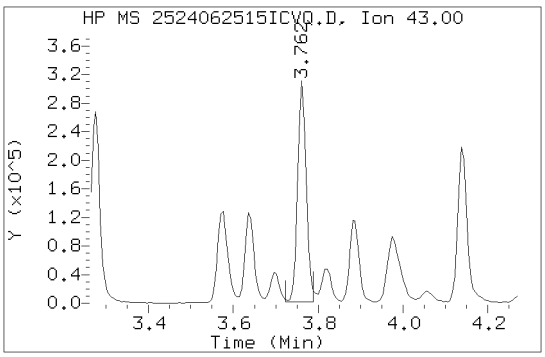

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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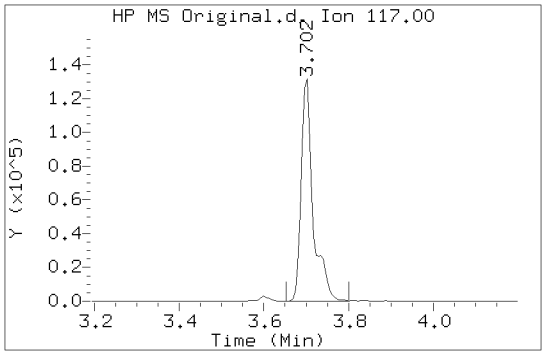
25-Jun-2024
19:15



AFTER

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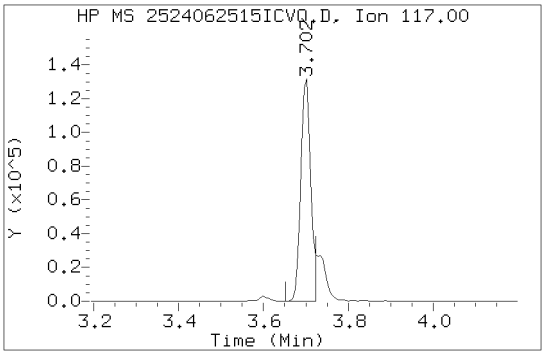
25-Jun-2024
19:30



BEFORE

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HEIGHT
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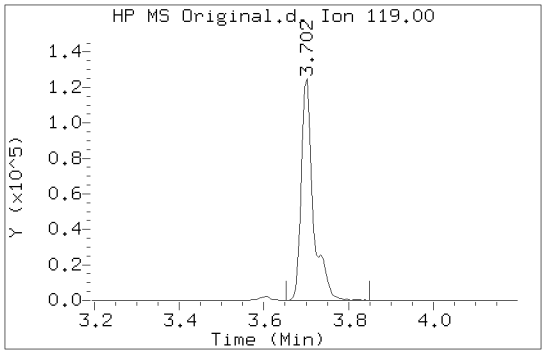
25-Jun-2024
19:15



AFTER

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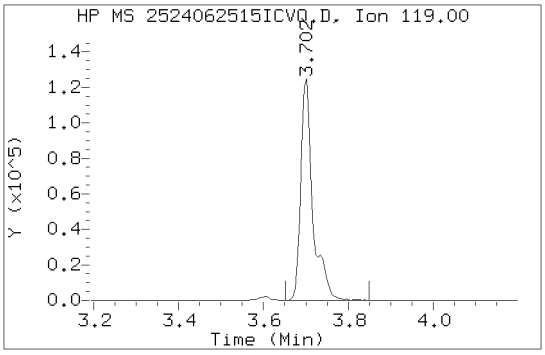
25-Jun-2024
19:30



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25-Jun-2024
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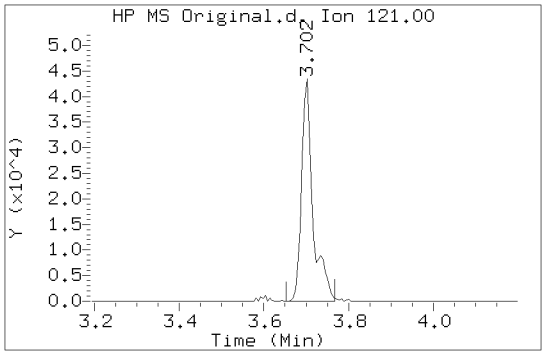

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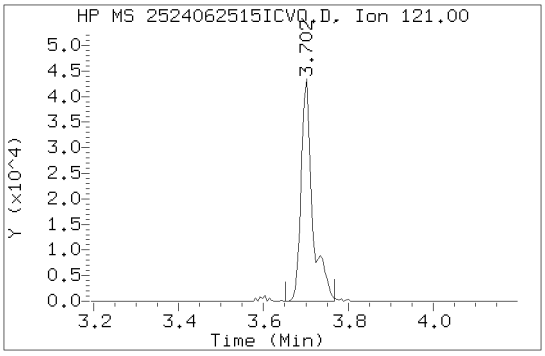

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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

Isobutyl alcohol (78-83-1)

Reason Code: MP

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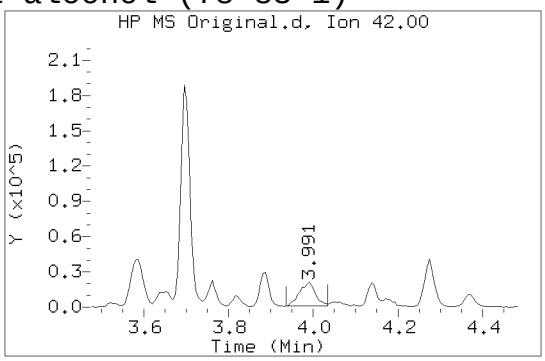
25-Jun-2024
19:15



AFTER
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25-Jun-2024
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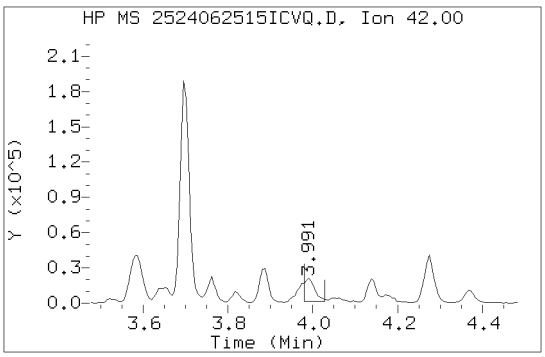

BEFORE
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HEIGHT
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25-Jun-2024
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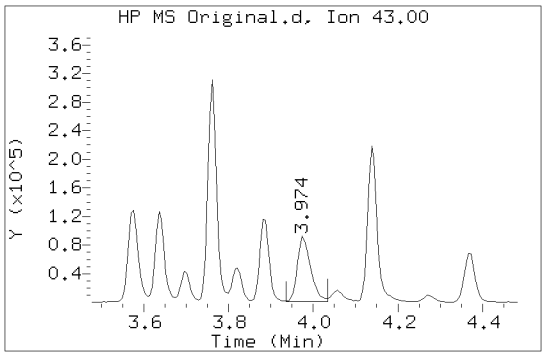

AFTER
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25-Jun-2024
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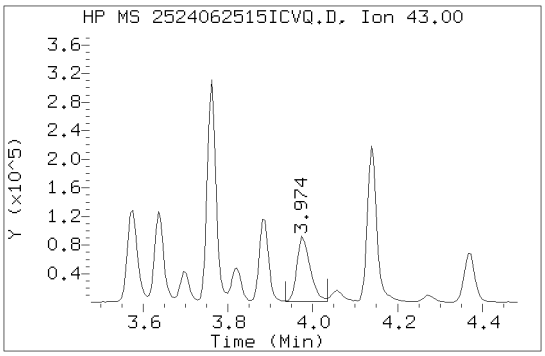

BEFORE
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25-Jun-2024
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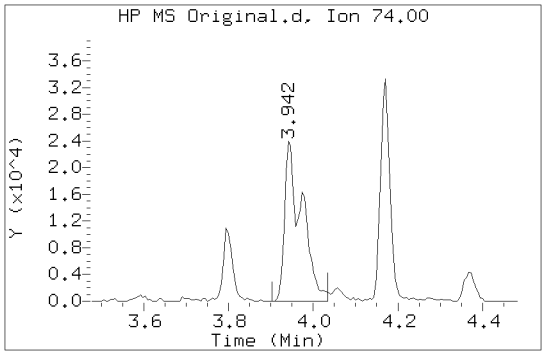

AFTER
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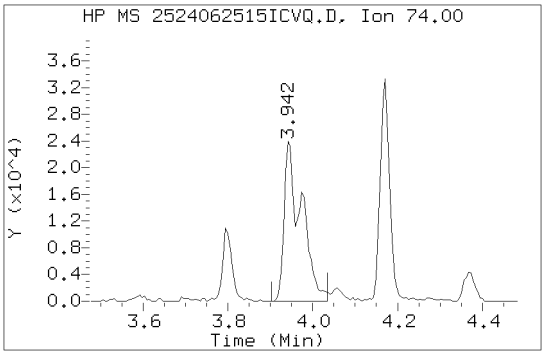
25-Jun-2024
19:30



Pentachloroethane (76-01-7)

Reason Code: MP

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HEIGHT
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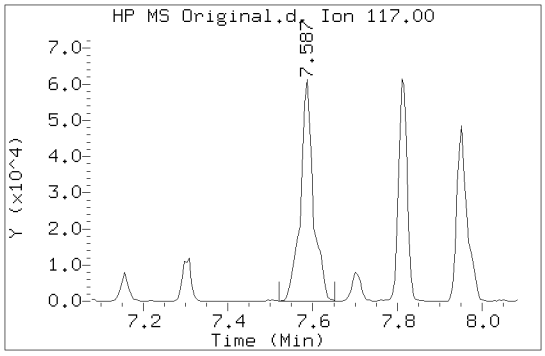
25-Jun-2024
19:15



AFTER
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HEIGHT
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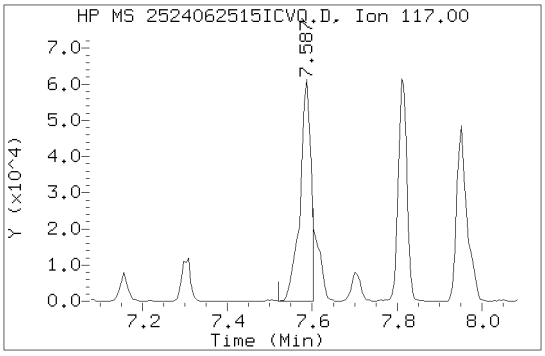
25-Jun-2024
19:30



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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
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HEIGHT
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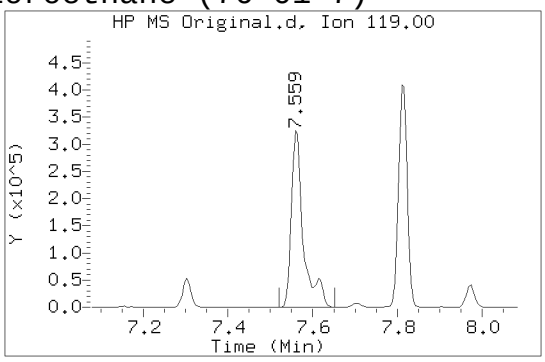
25-Jun-2024
19:15



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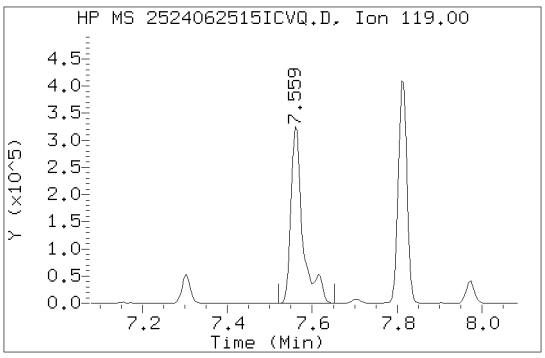
25-Jun-2024
19:30



BEFORE
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25-Jun-2024
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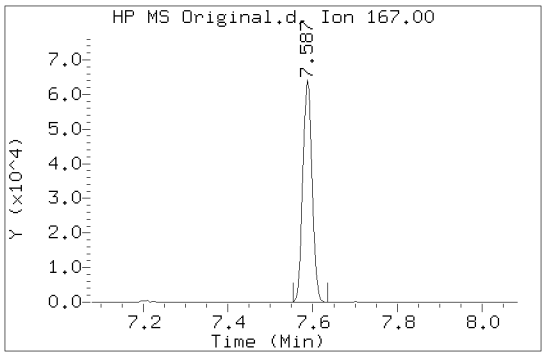

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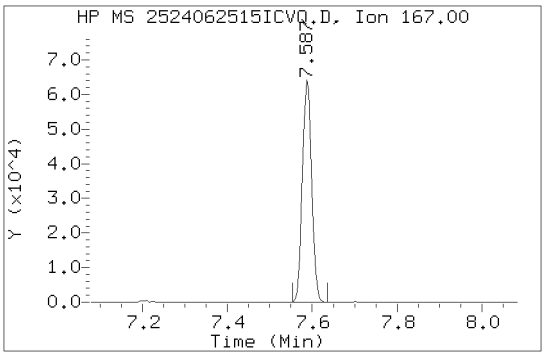

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

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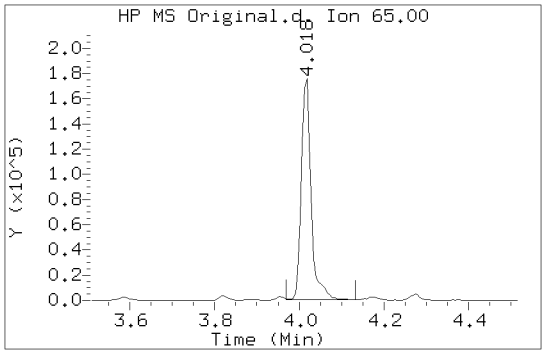

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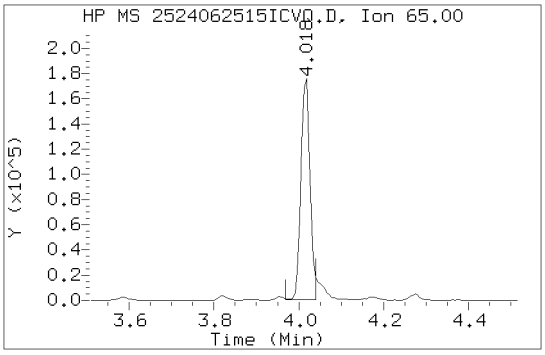

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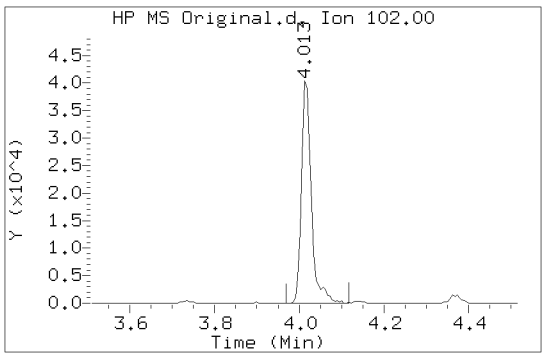

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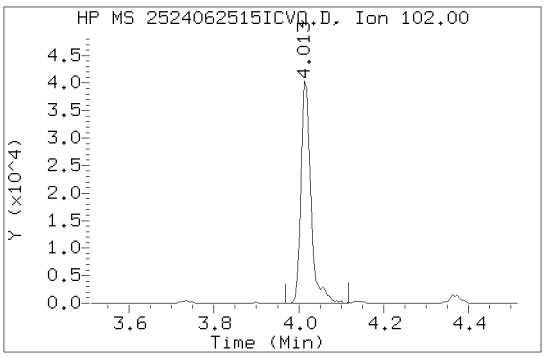

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1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

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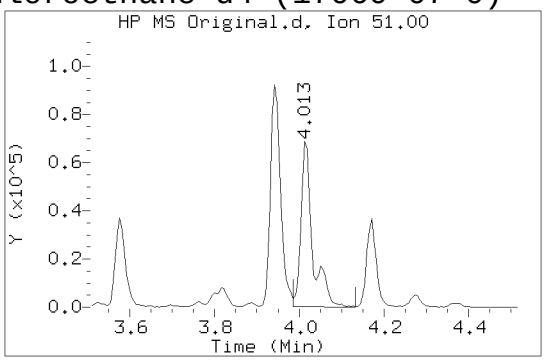

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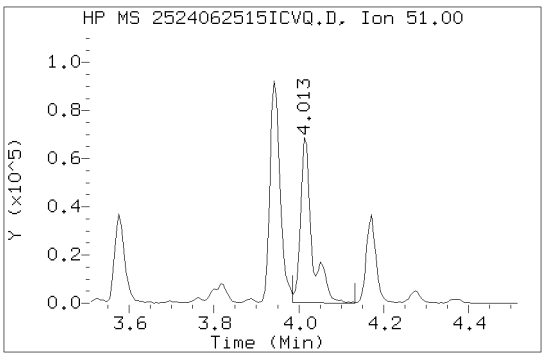

UNASSIGNED PEAK REPORT

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Inj Date: 25-JUN-2024 15:08
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062532.D Page 1
Report Date: 25-Jun-2024 21:56

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
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Inj Date : 25-JUN-2024 20:54
Operator : ILY Inst ID: ms25.i
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Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 31 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	525294	45.8314	45.8314	
2 Chloromethane	50	1.644	1.645	(0.394)	479677	47.9181	47.9181	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	607277	46.8693	46.8693	
4 Bromomethane	94	1.922	1.923	(0.461)	329775	53.2020	53.2020	
5 Chloroethane	64	2.004	2.005	(0.481)	405653	46.3273	46.3273	
6 Pentane	41	2.092	2.092	(0.502)	324450	39.9703	39.9703	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	810436	45.6648	45.6648	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	867118	52.8033	52.8033	
9 Ethyl Ether	74	2.277	2.278	(0.546)	272722	54.6128	54.6128	
10 1,1-Dichloroethene	61	2.414	2.409	(0.579)	508553	51.0347	51.0347	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	1095807	50.9771	50.9771	
11 Freon 113	101	2.424	2.425	(0.581)	337214	48.1126	48.1126	
13 Iodomethane	127	2.506	2.507	(0.601)	181958	47.1306	47.1306	
14 Acrolein	56	2.599	2.600	(0.623)	408273	254.008	254.008	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	437614	50.3967	50.3967	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	131858	250.983	250.983	
17 Methylene Chloride	84	2.741	2.741	(0.657)	438346	53.8528	53.8528	
18 Acetone	58	2.757	2.752	(0.661)	224851	249.331	249.331	
19 Methyl acetate	74	2.817	2.812	(0.676)	101212	54.6756	54.6756	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	518305	53.1055	53.1055	
21 Hexane	57	2.866	2.867	(0.687)	711782	43.8068	43.8068	

Data File: 2524062532.D
Report Date: 25-Jun-2024 21:56

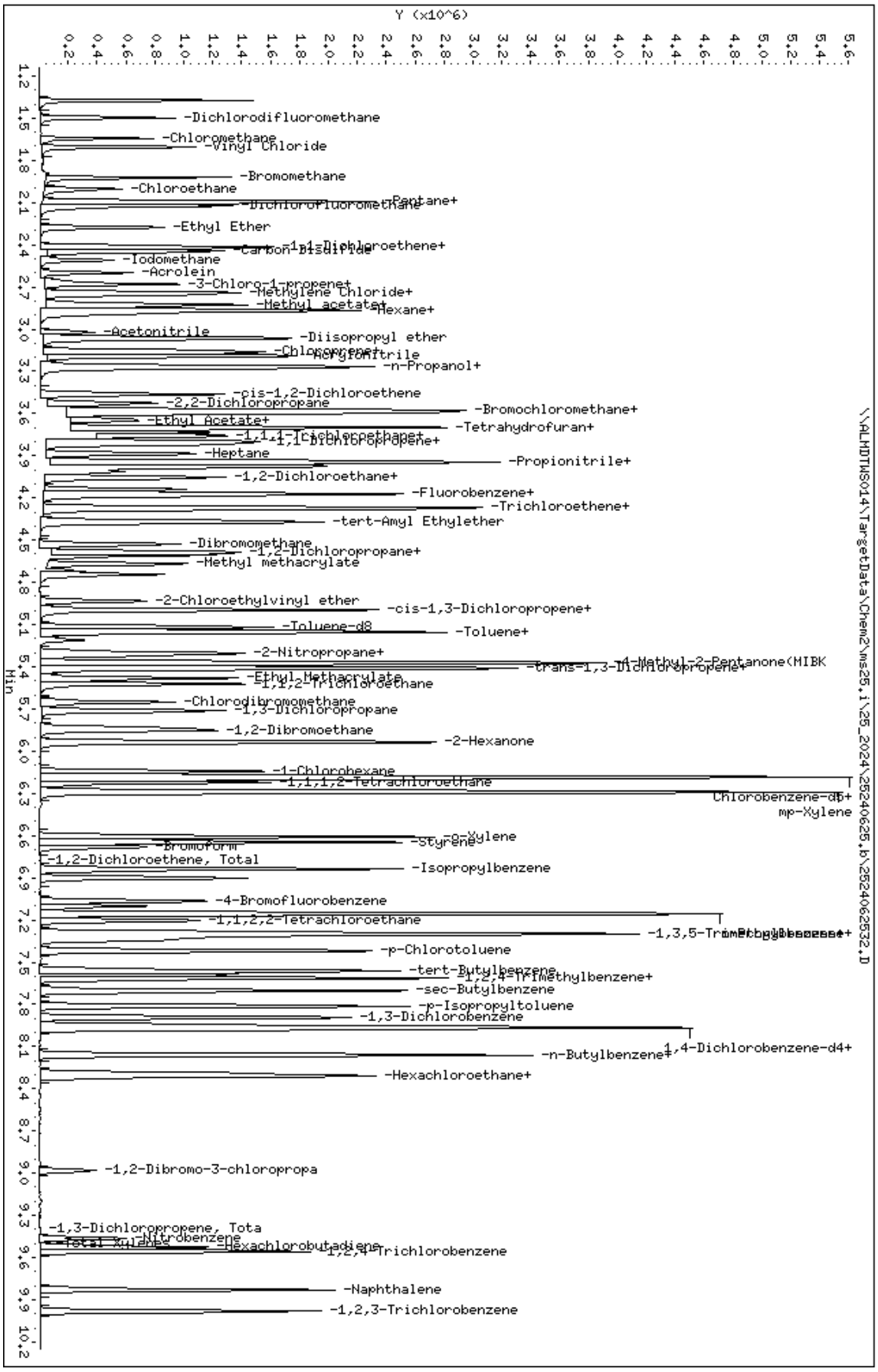
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1267674	50.6252	50.6252	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	246956	274.312	274.312	
	24 Acetonitrile	41	3.019	3.020	(0.724)	280006	277.663	277.663	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1203908	55.5801	55.5801	
	26 Chloroprene	53	3.156	3.156	(0.757)	591465	53.8591	53.8591	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	713253	53.6411	53.6411	
	28 Acrylonitrile	53	3.188	3.194	(0.765)	981416	283.404	283.404(M)	MP
	30 n-Propanol	41	3.265	3.260	(0.783)	218709	512.517	512.517	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1299982	56.5071	56.5071	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	105989	46.7240	46.7240(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	531630	53.7214	53.7214	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	446069	42.0914	42.0914	
M	100 1,2-Dichloroethene, Total	61				1049935	106.827	106.827	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	242746	56.8813	56.8813	
	35 Cyclohexane	84	3.587	3.587	(0.860)	585418	49.3020	49.3020	
	36 Chloroform	83	3.603	3.598	(0.864)	784870	54.6784	54.6784	
	37 Ethyl acetate	43	3.636	3.642	(0.872)	429365	49.8859	49.8859	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	441224	55.3689	55.3689	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	499575	47.3403	47.3403(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	658634	270.358	270.358	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	238727	29.2088	29.2088	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	596876	53.4226	53.4226	
	43 2-Butanone	72	3.761	3.767	(0.902)	313984	266.609	266.609(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	538663	50.9692	50.9692	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	338956	49.8736	49.8736	
	46 Heptane	71	3.887	3.887	(0.932)	241675	39.3605	39.3605	
	48 Propionitrile	54	3.941	3.942	(0.945)	370497	282.534	282.534	
	47 Benzene	78	3.941	3.942	(0.945)	1660781	51.1268	51.1268	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	216882	55.1721	55.1721	
	50 tert-amyl methyl Ether	73	3.974	3.975	(0.953)	1268373	57.1151	57.1151	
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	252196	29.2716	29.2716(QM)	MP
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	112290	560.978	560.978(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	541498	53.0284	53.0284	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	181059	262.129	262.129	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1035841	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	892825	44.3524	44.3524	
	57 Trichloroethene	95	4.269	4.269	(1.024)	414129	50.3734	50.3734	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	612081	48.8072	48.8072	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	970569	50.1385	50.1385	
	60 Dibromomethane	93	4.525	4.526	(1.085)	288229	55.4586	55.4586	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	427891	54.7311	54.7311	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	537769	49.4596	49.4596	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	355887	57.5178	57.5178	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	273371	47.7950	47.7950	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	665996	50.9131	50.9131	
	67 Octane	85	5.000	5.000	(0.810)	199779	42.0144	42.0144	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	933963	30.5118	30.5118	
	69 Toluene	92	5.153	5.153	(0.835)	1004603	51.7805	51.7805	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	135807	280.797	280.797	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	543687	255.508	255.508	
	72 1,1-Dichloro-2-propanone	63	5.316	5.317	(0.861)	52704	256.192	256.192(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2153105	280.899	280.899	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	612827	50.5932	50.5932	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	399230	56.5110	56.5110	

Data File: 2524062532.D Page 3
Report Date: 25-Jun-2024 21:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.481	(0.888)	626868	53.5835	53.5835	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	339266	56.9151	56.9151	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	440113	52.0694	52.0694	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	686667	58.3036	58.3036	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	422049	53.1777	53.1777	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1441053	274.053	274.053	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	526774	51.6113	51.6113	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	386622	30.0000		
	85 Ethylbenzene	106	6.189	6.190	(1.003)	584392	50.5549	50.5549	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	1118023	56.5483	56.5483	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	390118	52.2450	52.2450	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1403951	102.305	102.305	
M	120 1,3-Dichloropropene, Total	75				1278823	101.506	101.506	
	88 o-Xylene	106	6.610	6.610	(1.071)	674772	51.2855	51.2855	
	89 Styrene	104	6.648	6.648	(0.836)	1109684	52.2144	52.2144	
	90 Bromoform	173	6.680	6.686	(0.840)	300814	50.1219	50.1219	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1511311	51.0241	51.0241	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	310618	31.2554	31.2554	
M	121 TOTAL XYLENES	106				2078723	153.590	153.590	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	467813	53.8641	53.8641	
	93 Bromobenzene	156	7.155	7.156	(0.900)	475757	56.0151	56.0151	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	494856	58.6199	58.6199	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	1315592	54.4278	54.4278	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1282789	56.1388	56.1388	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	154034	56.5737	56.5737	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	124784	48.1811	48.1811(Q)	
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	1158317	55.9641	55.9641	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	322322	55.7554	55.7554	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	268063	46.1989	46.1989(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1320277	51.5885	51.5885	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	1665313	55.7445	55.7445	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	370347	54.1351	54.1351	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	799382	55.8659	55.8659	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	359232	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	813676	54.5545	54.5545	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	324917	50.8228	50.8228(Q)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	121588	34.1616	34.1616(Q)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	246708	48.1401	48.1401	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	780850	57.2885	57.2885	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	82002	50.7864	50.7864	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	250676	476.139	476.139	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	204556	45.3862	45.3862	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	503609	55.7932	55.7932	
	118 Naphthalene	128	9.829	9.829	(1.236)	1345077	50.6923	50.6923	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	498818	49.1889	49.1889	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.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-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Carbon Disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
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-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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-o-Xylene
-Styrene
-Bromoform
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-Isopropylbenzene
-4-Bromofluorobenzene
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-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
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-p-Isopropyltoluene
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-1,3-Dichloropropene, Tota
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-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Page 1

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Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

Acrylonitrile (107-13-1)

Reason Code: MP

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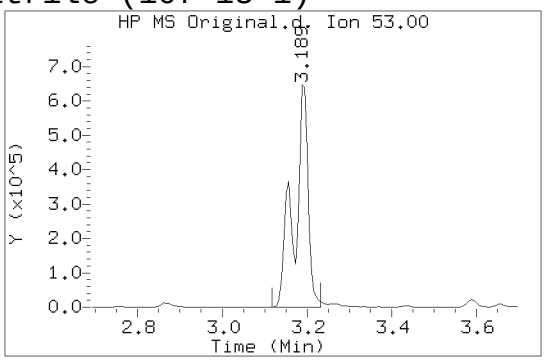

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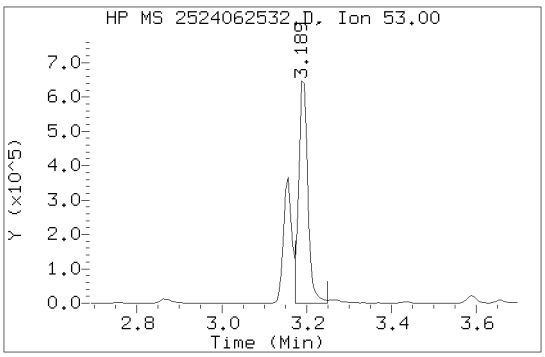
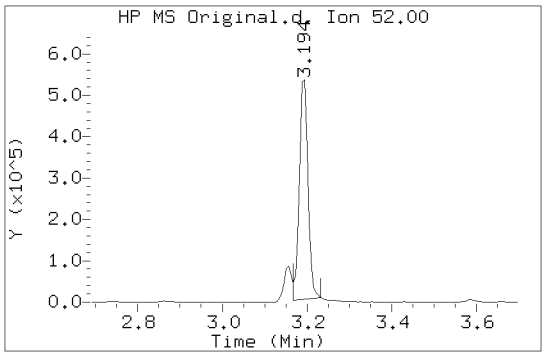
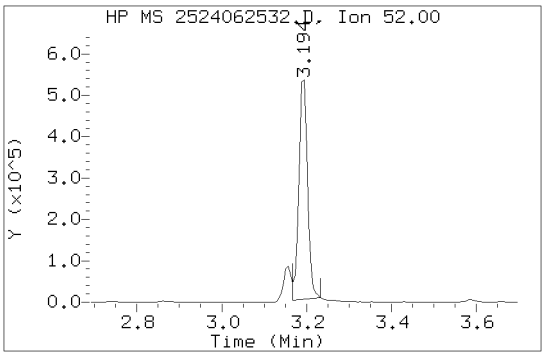


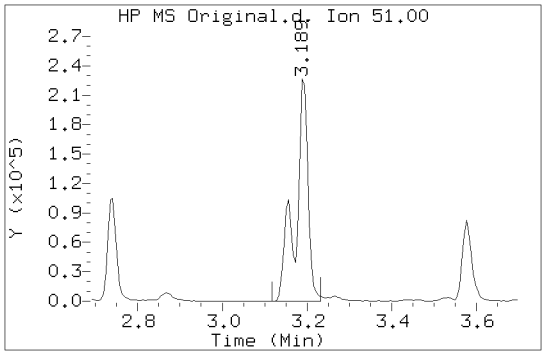
BEFORE
MASS
52
AREA
759796
HEIGHT
529838
25-Jun-2024
21:54



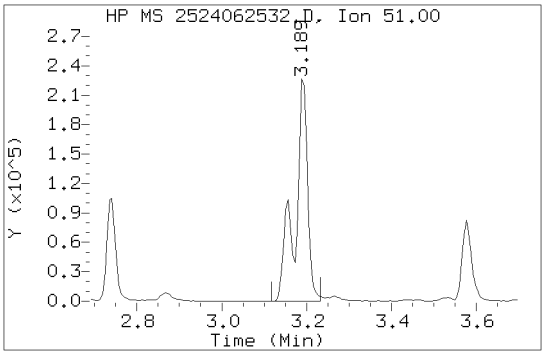
AFTER
MASS
52
AREA
759796
HEIGHT
529838
25-Jun-2024
21:56



BEFORE
MASS
51
AREA
469148
HEIGHT
226428
25-Jun-2024
21:54



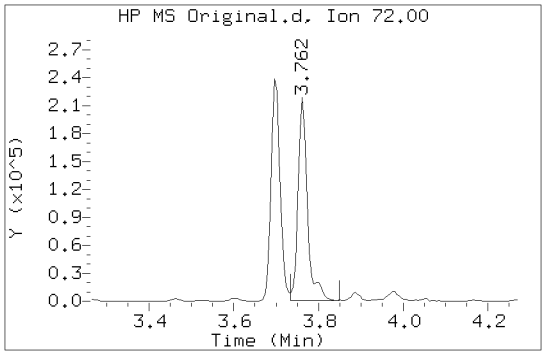
AFTER
MASS
51
AREA
469148
HEIGHT
226428
25-Jun-2024
21:56



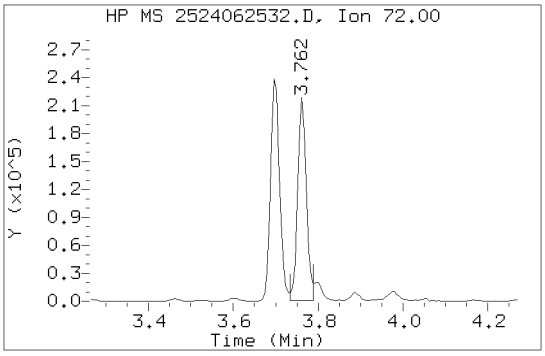
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
336881
HEIGHT
218506
25-Jun-2024
21:54



AFTER
MASS
72
AREA
313984
HEIGHT
218506
25-Jun-2024
21:56

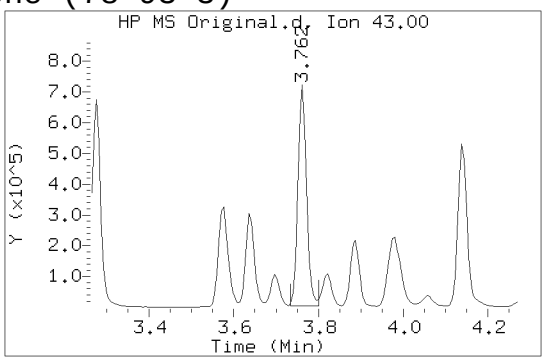


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

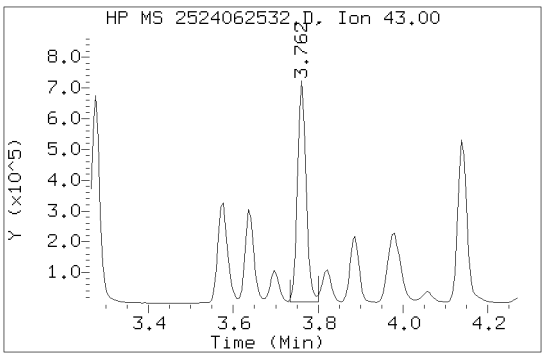
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
1019111
HEIGHT
719131
25-Jun-2024
21:54



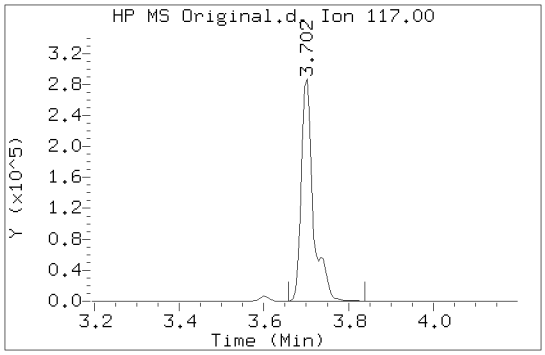
AFTER
MASS
43
AREA
1019111
HEIGHT
719131
25-Jun-2024
21:56



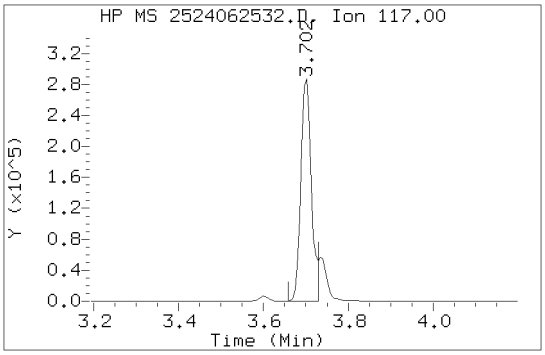
Carbon Tetrachloride (56-23-5)

Reason Code: MP

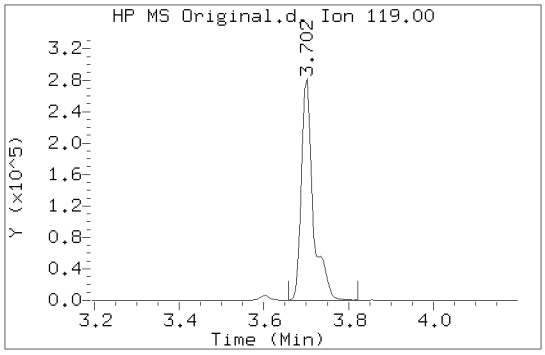
BEFORE
MASS
117
AREA
569738
HEIGHT
287168
25-Jun-2024
21:54



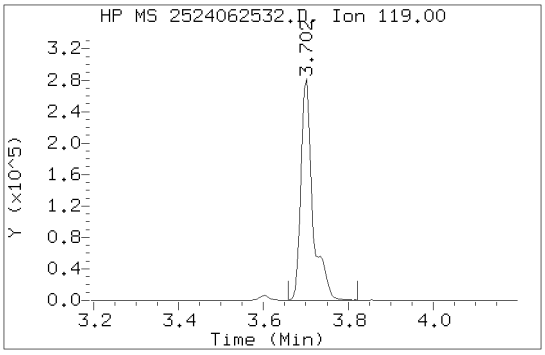
AFTER
MASS
117
AREA
499575
HEIGHT
287168
25-Jun-2024
21:56



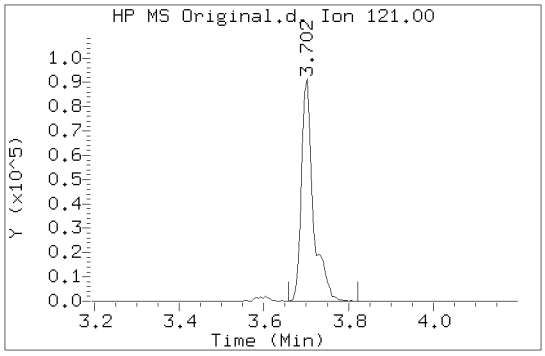
BEFORE
MASS
119
AREA
550685
HEIGHT
281920
25-Jun-2024
21:54



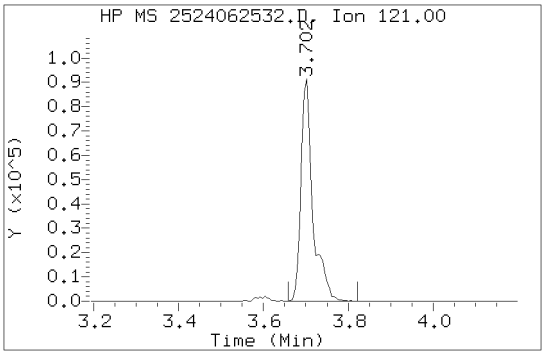
AFTER
MASS
119
AREA
550685
HEIGHT
281920
25-Jun-2024
21:56



BEFORE
MASS
121
AREA
178729
HEIGHT
91408
25-Jun-2024
21:54



AFTER
MASS
121
AREA
178729
HEIGHT
91408
25-Jun-2024
21:56

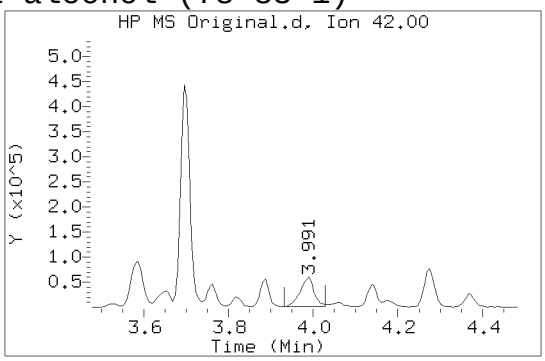


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

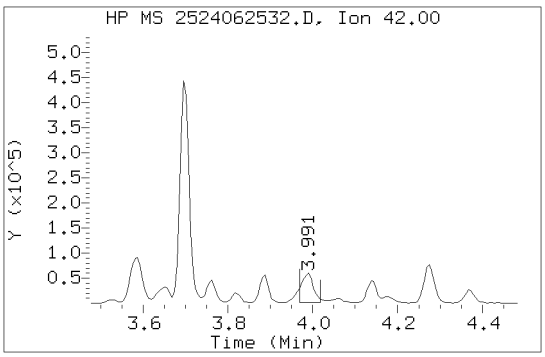
Isobutyl alcohol (78-83-1)

Reason Code: MP

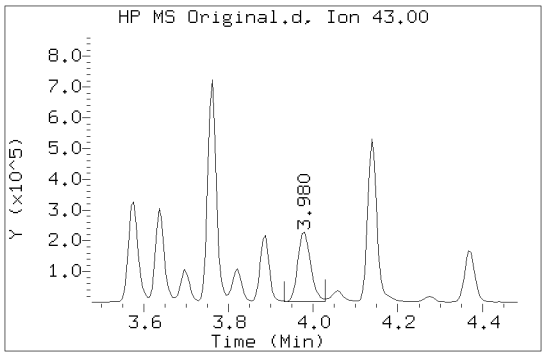
BEFORE
MASS
42
AREA
135226
HEIGHT
58796
25-Jun-2024
21:54



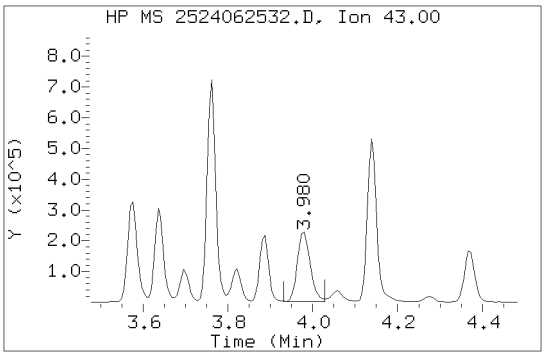
AFTER
MASS
42
AREA
112290
HEIGHT
58233
25-Jun-2024
21:56



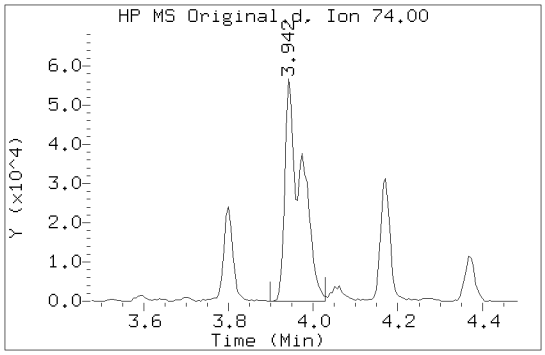
BEFORE
MASS
43
AREA
483601
HEIGHT
225604
25-Jun-2024
21:54



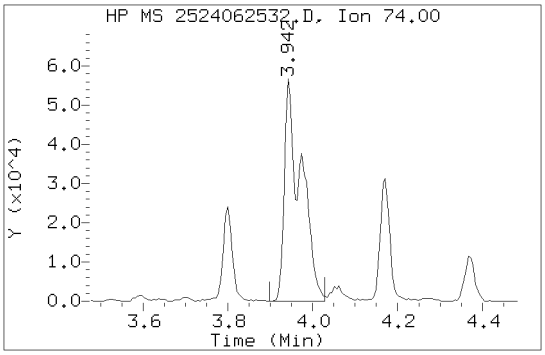
AFTER
MASS
43
AREA
483601
HEIGHT
225604
25-Jun-2024
21:56



BEFORE
MASS
74
AREA
156027
HEIGHT
56712
25-Jun-2024
21:54



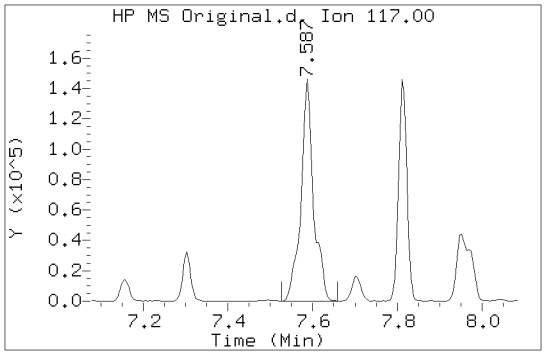
AFTER
MASS
74
AREA
156027
HEIGHT
56712
25-Jun-2024
21:56



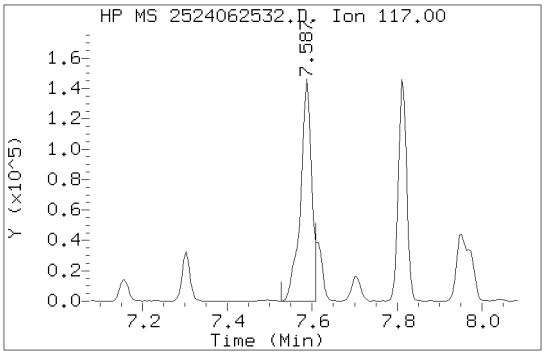
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
302592
HEIGHT
146304
25-Jun-2024
21:54



AFTER
MASS
117
AREA
268063
HEIGHT
146304
25-Jun-2024
21:56

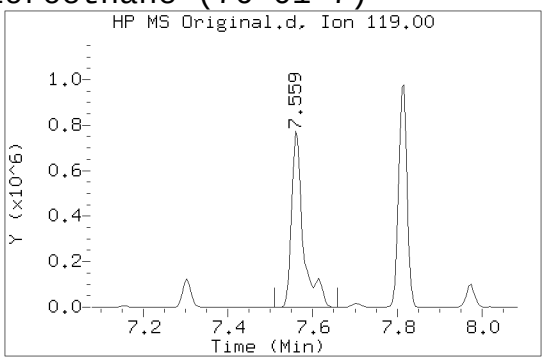


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

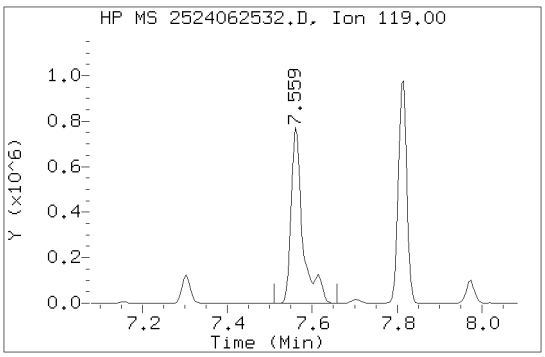
Pentachloroethane (76-01-7)

Reason Code: MP

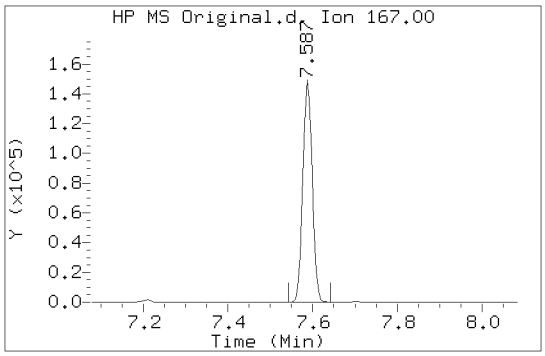
BEFORE
MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:54



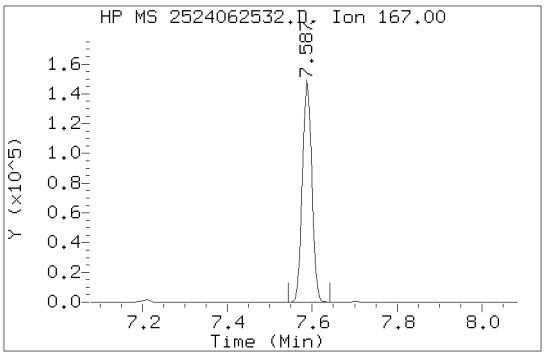
AFTER
MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:56



BEFORE
MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:54



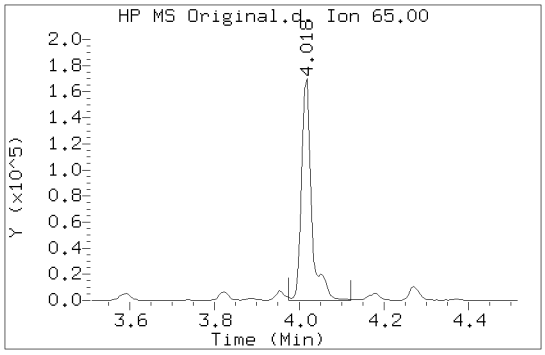
AFTER
MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:56



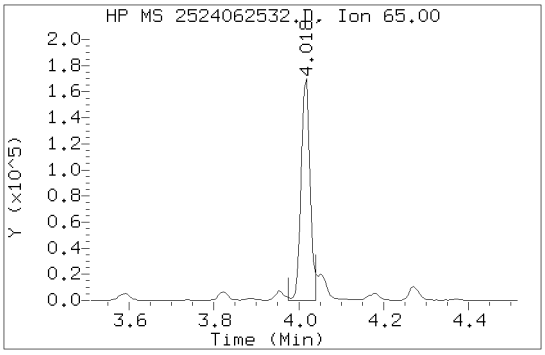
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

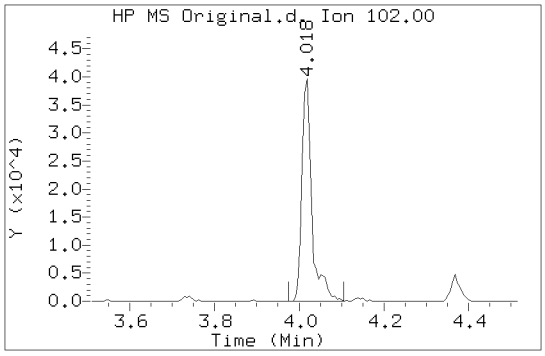
BEFORE
MASS
65
AREA
283959
HEIGHT
169984
25-Jun-2024
21:54



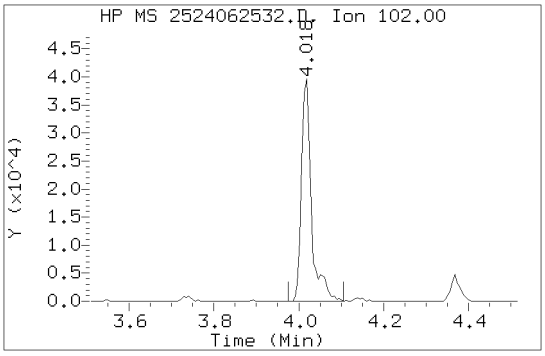
AFTER
MASS
65
AREA
252196
HEIGHT
169984
25-Jun-2024
21:56



BEFORE
MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:54



AFTER
MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:56



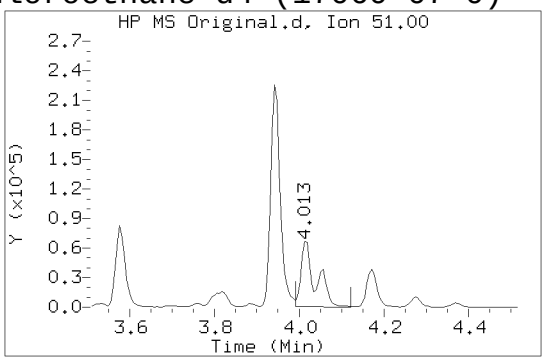
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

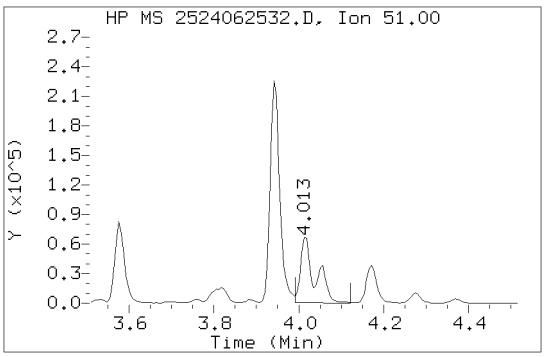
BEFORE

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:54



AFTER

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:56



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 21:56
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406253
Inj Date: 25-JUN-2024 20:54
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 25240628

Volatiles by EPA 8260D

Workorder

3366026

Client

ALS Houston

Project

AHH130|HS24061330

07/10/2024

www.alsglobal.com

Data File: 2524062800.D Page 1
Report Date: 28-Jun-2024 09:14

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D
Lab Smp Id: 1000
Inj Date : 28-JUN-2024 09:00
Operator : TMP Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms 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: NAMDTW7026

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	1.000	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		
7.057	8.129	(0.000)	95	93616			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	17312			15.00- 40.00	18.49
7.057	8.129	(0.000)	75	44616			30.00- 60.00	47.66
7.057	8.129	(0.000)	96	6656			5.00- 9.00	7.11
7.057	8.129	(0.000)	173	365			0.00- 2.00	0.45
7.057	8.129	(0.000)	174	80744			50.00- 0.00	86.25
7.057	8.129	(0.000)	175	6388			5.00- 9.00	7.91
7.057	8.129	(0.000)	176	79000			95.00- 101.00	97.84
7.057	8.129	(0.000)	177	5283			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	18.49
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.39 (0.45)
174	Greater than 50.00% of mass 95	86.25
175	5.00 - 9.00% of mass 174	6.82 (7.91)
176	95.00 - 101.00% of mass 174	84.39 (97.84)
177	5.00 - 9.00% of mass 176	5.64 (6.69)

Data File: 2524062800.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	757	63.00	3165	93.00	4170	141.00	929
37.00	4461	64.00	307	94.00	11214	142.00	64
38.00	3788	67.00	394	95.00	93616	143.00	860
39.00	1350	68.00	9611	96.00	6656	146.00	108
42.00	64	69.00	9495	97.00	376	148.00	287
43.00	135	70.00	902	103.00	209	155.00	209
44.00	493	72.00	433	104.00	339	156.00	89
45.00	600	73.00	3819	105.00	167	157.00	96
46.00	53	74.00	15201	106.00	474	161.00	187
47.00	1205	75.00	44616	107.00	63	171.00	160
48.00	559	76.00	3932	115.00	114	172.00	225
49.00	3803	77.00	634	116.00	339	173.00	365
50.00	17312	78.00	468	117.00	539	174.00	80744
51.00	5693	79.00	3121	118.00	435	175.00	6388
52.00	388	80.00	840	119.00	441	176.00	79000
55.00	368	81.00	2972	128.00	495	177.00	5283
56.00	1499	82.00	658	129.00	95	178.00	62
57.00	2555	83.00	130	130.00	381	211.00	195
58.00	53	87.00	4011	131.00	126		
60.00	1008	88.00	4363	135.00	67		
61.00	4464	91.00	335	137.00	264		
62.00	3919	92.00	2757	140.00	52		

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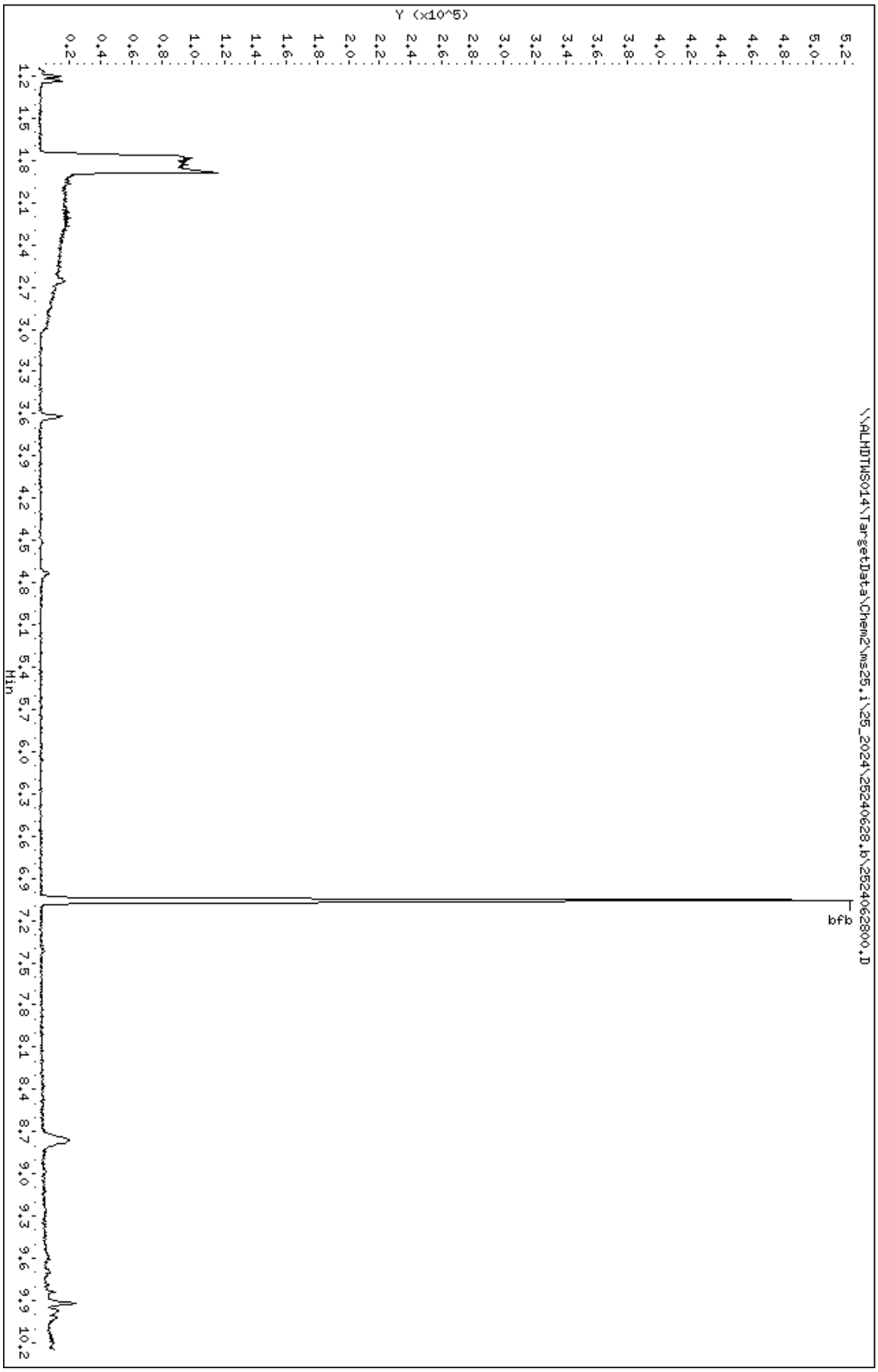

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NO MANUAL INTEGRATIONS

Data File: 2524062801.D Page 1
Report Date: 30-Jun-2024 14:58

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
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Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
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)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	522975	50.0000	45.5603	
2 Chloromethane	50	1.644	1.644	(0.394)	498166	50.0000	49.6944	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	622041	50.0000	47.9365	
4 Bromomethane	94	1.922	1.922	(0.461)	330884	50.0000	53.3014	
5 Chloroethane	64	2.004	2.004	(0.481)	418408	50.0000	47.7213	
6 Pentane	41	2.092	2.092	(0.502)	346589	50.0000	42.7039	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	836914	50.0000	47.0857	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	838647	50.0000	50.9927	
9 Ethyl Ether	74	2.277	2.277	(0.546)	259287	50.0000	51.8443	
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	486093	50.0000	48.7074	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	1060410	50.0000	49.2562	
11 Freon 113	101	2.424	2.424	(0.581)	336781	50.0000	47.9785	
13 Iodomethane	127	2.506	2.506	(0.601)	190868	50.0000	49.3398	
14 Acrolein	56	2.599	2.599	(0.623)	394338	250.000	244.969	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	423514	50.0000	48.7054	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	136872	250.000	260.250	
17 Methylene Chloride	84	2.741	2.741	(0.657)	415804	50.0000	51.0065	
18 Acetone	58	2.752	2.752	(0.660)	216587	250.000	239.805	
19 Methyl acetate	74	2.817	2.817	(0.676)	87587	50.0000	47.1866	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	503858	50.0000	51.5475	
21 Hexane	57	2.866	2.866	(0.687)	766982	50.0000	47.1553	

Data File: 2524062801.D Page 2
Report Date: 30-Jun-2024 14:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1224730	50.0000	48.8448	
	23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	229444	250.000	254.476	
	24 Acetonitrile	41	3.019	3.019	(0.724)	269805	250.000	267.144	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1162416	50.0000	53.5838	
	26 Chloroprene	53	3.156	3.156	(0.757)	586187	50.0000	53.2981	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	696701	50.0000	52.3174	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	943483	250.000	272.040(M)	MP
	30 n-Propanol	41	3.265	3.265	(0.783)	212630	500.000	497.521	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1250326	50.0000	54.2669	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	105996	50.0000	46.6572	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	515189	50.0000	51.9816	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	541182	50.0000	50.9894	
M	100 1,2-Dichloroethene, Total	61				1019047	100.000	103.529	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	225522	50.0000	52.7657	
	35 Cyclohexane	84	3.592	3.592	(0.861)	575162	50.0000	48.3654	
	36 Chloroform	83	3.598	3.598	(0.863)	727311	50.0000	50.5922	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	414353	50.0000	48.0661	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	418844	50.0000	52.4813	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	456704	50.0000	43.2489(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	628267	250.000	257.505	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	239748	30.0000	29.2895	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	573212	50.0000	51.2274	
	43 2-Butanone	72	3.761	3.761	(0.902)	293285	250.000	248.658(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	536580	50.0000	50.6957	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	331584	50.0000	48.7154	
	46 Heptane	71	3.887	3.887	(0.932)	293493	50.0000	47.7279	
	48 Propionitrile	54	3.941	3.941	(0.945)	357280	250.000	272.044	
	47 Benzene	78	3.941	3.941	(0.945)	1602139	50.0000	49.2473	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	206876	50.0000	52.5475	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1204105	50.0000	54.1395	
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	250186	30.0000	28.9946(M)	MP
	54 Isobutyl alcohol	42	3.985	3.985	(0.956)	103812	500.000	518.152(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	524527	50.0000	51.2891	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	178309	250.000	257.759	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1037403	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	931592	50.0000	46.2717	
	57 Trichloroethene	95	4.269	4.269	(1.024)	415600	50.0000	50.4763	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	635200	50.0000	49.5114	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	942938	50.0000	48.6456	
	60 Dibromomethane	93	4.525	4.525	(1.085)	273495	50.0000	52.5444	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	410545	50.0000	52.4333	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	507307	50.0000	46.6069	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	335986	50.0000	54.2196	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	267474	50.0000	46.7021	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	664624	50.0000	49.6722	
	67 Octane	85	5.000	5.000	(0.810)	247791	50.0000	50.9393	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	930097	30.0000	29.7020	
	69 Toluene	92	5.153	5.153	(0.835)	963088	50.0000	48.5241	
	70 Chloroacetonitrile	75	5.213	5.213	(0.844)	129683	250.000	262.103	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	513583	250.000	236.074	
	72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	50536	250.000	240.249	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2038160	250.000	259.997	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	602124	50.0000	48.6031	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	359744	50.0000	49.7763	

Data File: 2524062801.D Page 3
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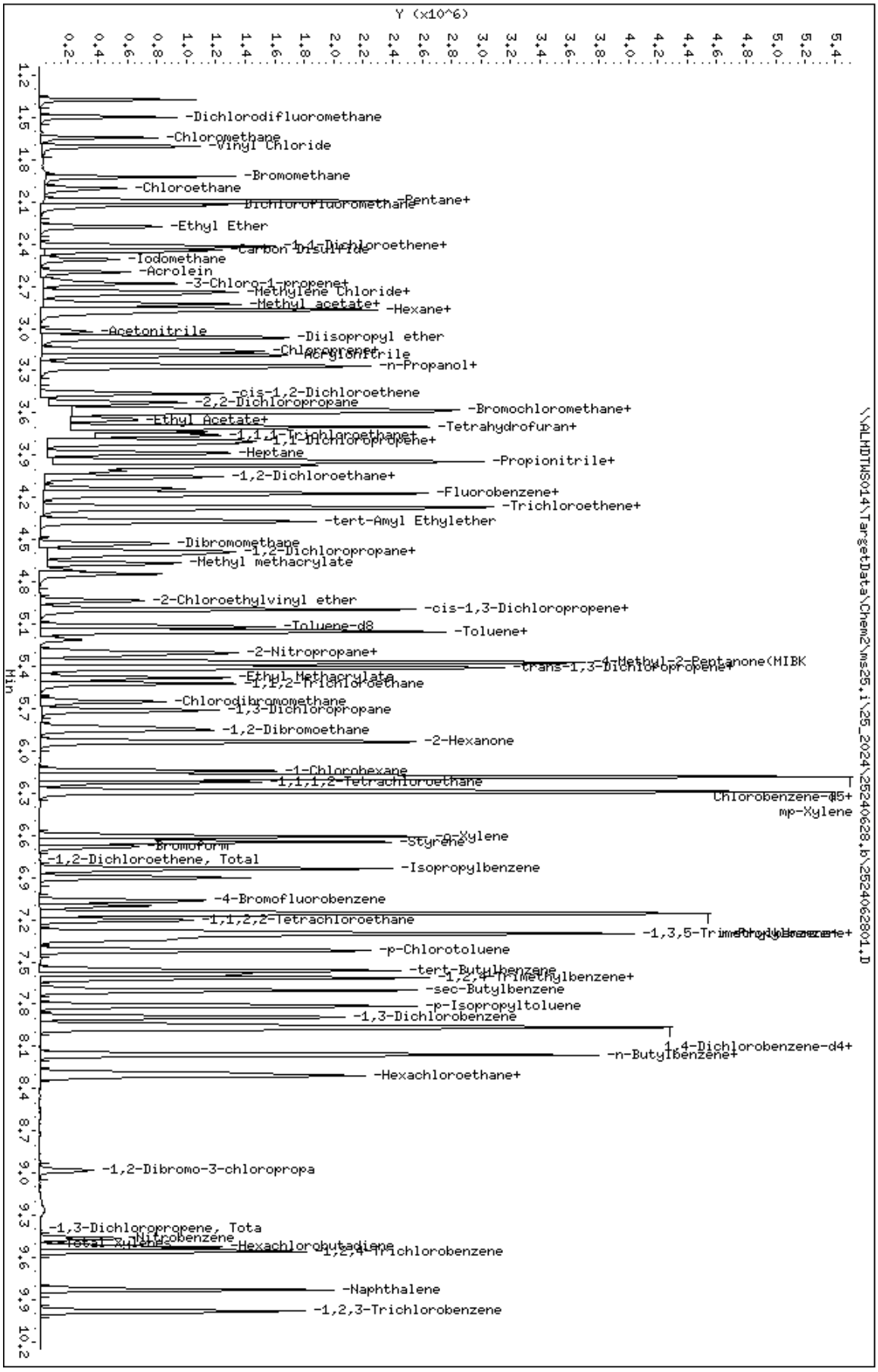
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
76 Ethyl methacrylate	69	5.480	5.480	(0.888)	596730	50.0000	49.8820	
77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	326226	50.0000	53.4964	
78 Chlorodibromomethane	129	5.649	5.649	(0.915)	407883	50.0000	47.2055	
79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	655351	50.0000	54.3929	
80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	393954	50.0000	48.5417	
81 2-Hexanone	43	5.933	5.933	(0.961)	1377785	250.000	256.199	
82 1-Chlorohexane	91	6.146	6.146	(0.996)	543321	50.0000	52.0351	
* 83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	395519	30.0000		
85 Ethylbenzene	106	6.189	6.189	(1.003)	560990	50.0000	47.4305	
84 Chlorobenzene	112	6.184	6.184	(1.002)	1057594	50.0000	52.2886	
86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	364641	50.0000	47.7621	
87 mp-Xylene	106	6.288	6.288	(1.019)	1360923	100.000	96.8971	
M 120 1,3-Dichloropropene, Total	75				1266748	100.000	98.2753	
88 o-Xylene	106	6.610	6.610	(1.071)	649037	50.0000	48.2199	
89 Styrene	104	6.648	6.648	(0.836)	1053521	50.0000	49.2274	
90 Bromoform	173	6.680	6.680	(0.840)	272520	50.0000	45.1129	
91 Isopropylbenzene	105	6.839	6.839	(0.860)	1476432	50.0000	49.4875	
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	293145	30.0000	29.2822	
M 121 TOTAL XYLENES	106				2009960	150.000	145.117	
94 n-Propylbenzene	120	7.155	7.155	(0.900)	454683	50.0000	51.9708	
93 Bromobenzene	156	7.155	7.155	(0.900)	443340	50.0000	51.8179	
95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	464231	50.0000	54.5914	
97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1283166	50.0000	52.6994	
96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1235746	50.0000	53.6860	
98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	146032	50.0000	53.2439	
99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	127893	50.0000	49.0166	
101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1121063	50.0000	53.7694	
102 tert-Butylbenzene	134	7.559	7.559	(0.951)	311370	50.0000	53.4684	
103 Pentachloroethane	117	7.586	7.586	(0.954)	280902	50.0000	48.0471(M)	
104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1277802	50.0000	49.5590	
105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1633565	50.0000	54.2833	
106 p-Isopropyltoluene	134	7.815	7.815	(0.983)	372062	50.0000	53.9895	
107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	760008	50.0000	52.7271	
* 108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	361869	30.0000		
109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	778069	50.0000	51.7870	
111 n-Butylbenzene	134	8.159	8.159	(1.026)	338298	50.0000	52.5303	
110 Benzyl Chloride	126	8.159	8.159	(1.026)	165312	50.0000	45.9437	
112 Hexachloroethane	117	8.290	8.290	(1.043)	230172	50.0000	44.6148	
113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	726959	50.0000	52.9460	
114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	76019	50.0000	46.7709	
115 Nitrobenzene	77	9.463	9.463	(1.190)	234976	500.000	446.343	
116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	216275	50.0000	47.6242	
117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	495994	50.0000	54.5492	
118 Naphthalene	128	9.829	9.829	(1.236)	1264368	50.0000	47.3247	
119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	475468	50.0000	46.5604	

QC Flag Legend

M - Compound response manually integrated.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-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Iodomethane
-Acrolein
-Methylene Chloride+
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-Acetonitrile
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-Hexachlorobutadiene
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Page 1

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Inj Date : 28-JUN-2024 09:53
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LabSampID : 1800

Acrylonitrile (107-13-1)

Reason Code: MP

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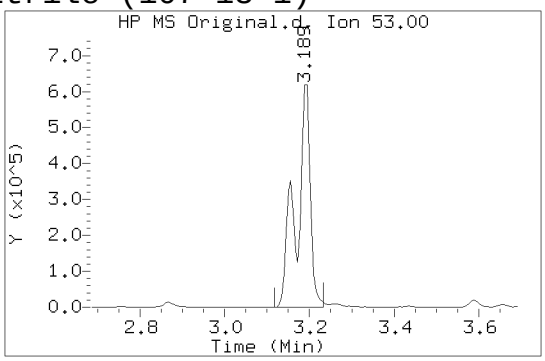

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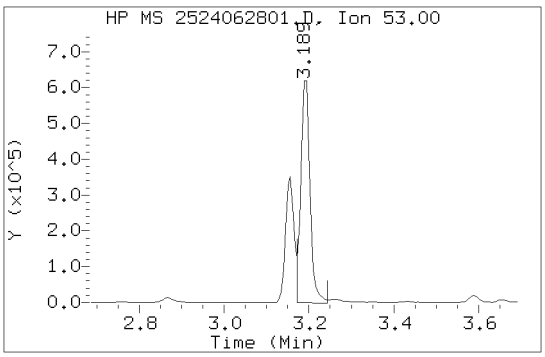

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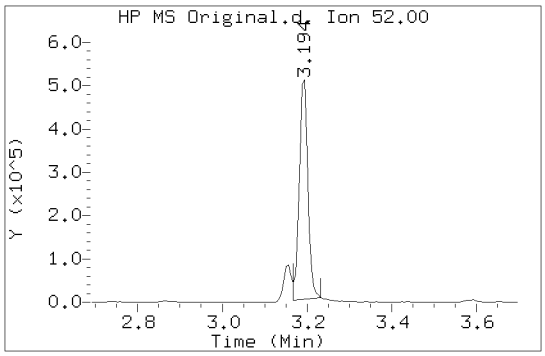

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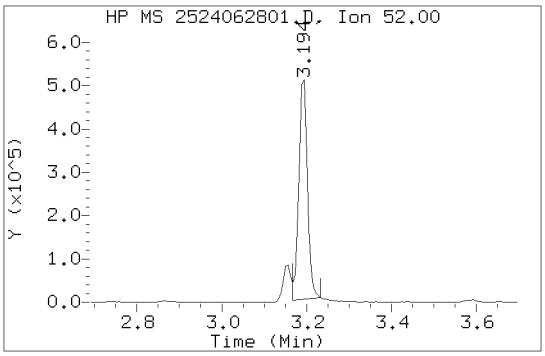

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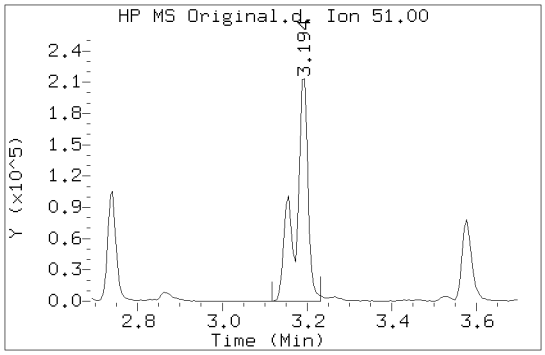

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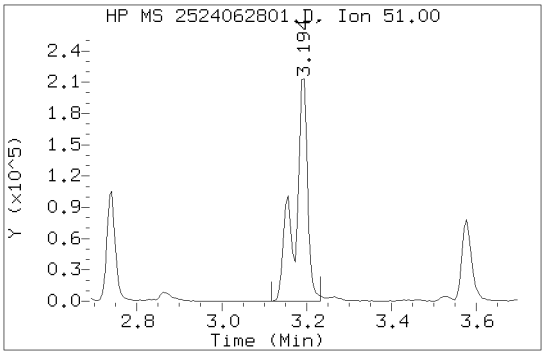

2-Butanone (78-93-3)

Reason Code: MP

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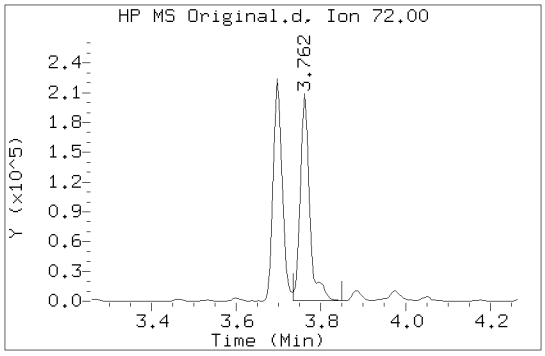

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30-Jun-2024
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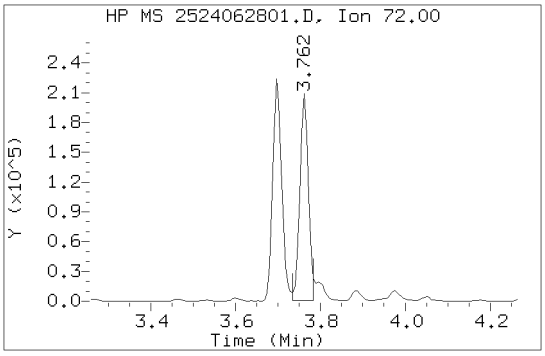

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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

2-Butanone (78-93-3)

Reason Code: MP

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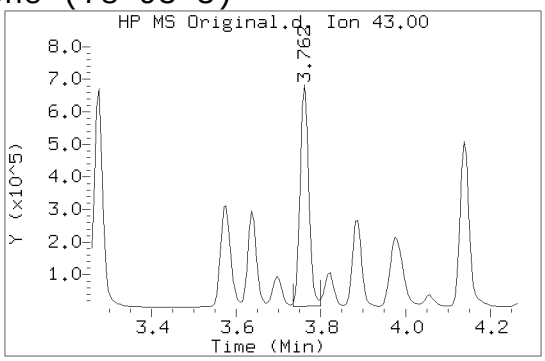
HEIGHT
679462
28-Jun-2024
10:05



AFTER
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43
AREA
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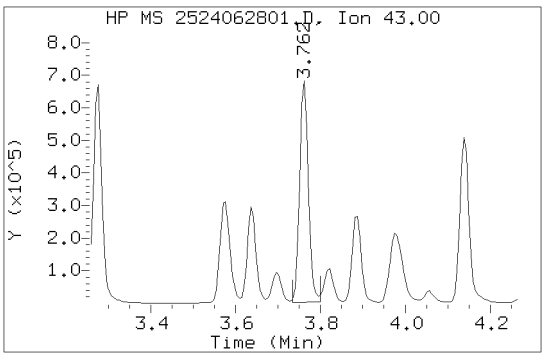
30-Jun-2024
14:58



Carbon Tetrachloride (56-23-5)

Reason Code: MP

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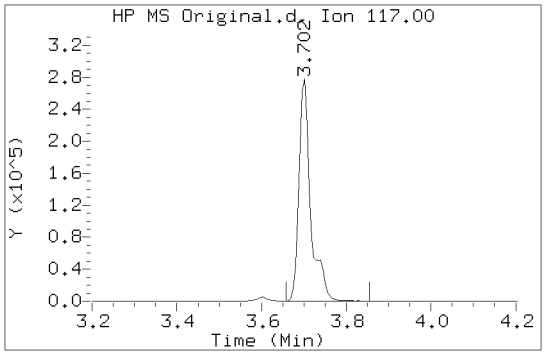
28-Jun-2024
10:05



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30-Jun-2024
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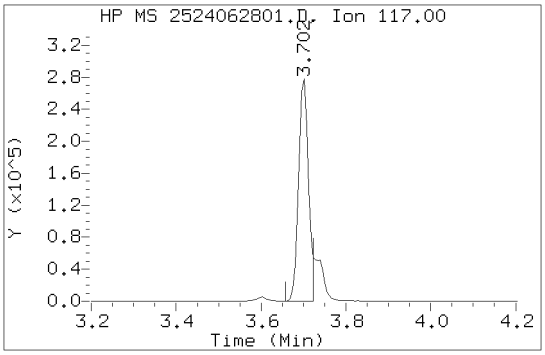

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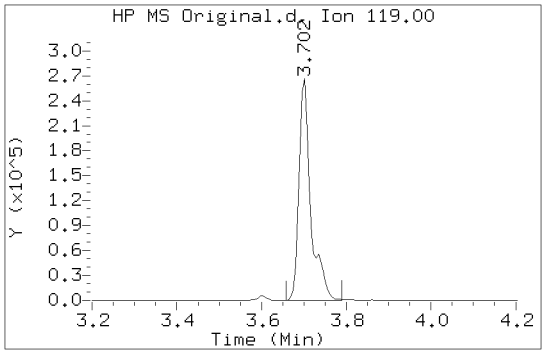
28-Jun-2024
10:05



AFTER
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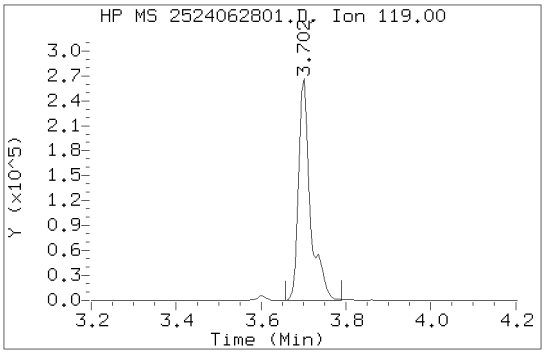
30-Jun-2024
14:58



BEFORE
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121
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HEIGHT
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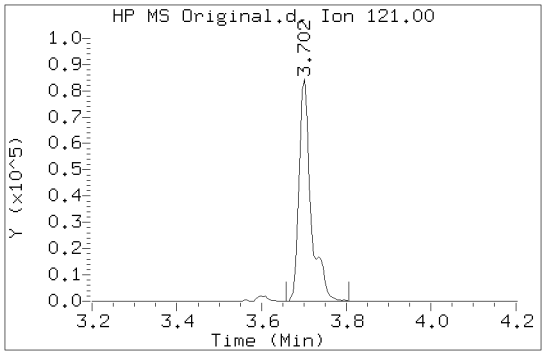
28-Jun-2024
10:05



AFTER
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121
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HEIGHT
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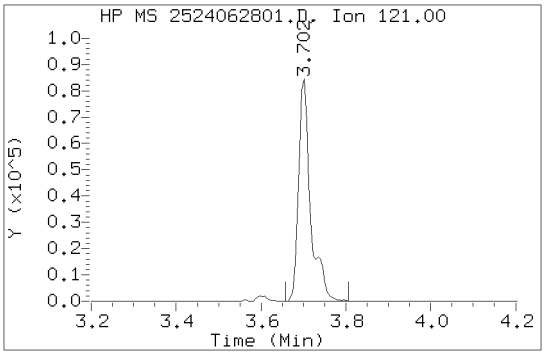
30-Jun-2024
14:58



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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

Isobutyl alcohol (78-83-1)

Reason Code: MP

BEFORE
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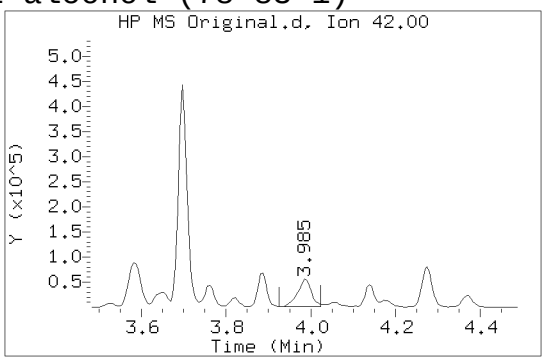
28-Jun-2024
10:05



AFTER
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42
AREA
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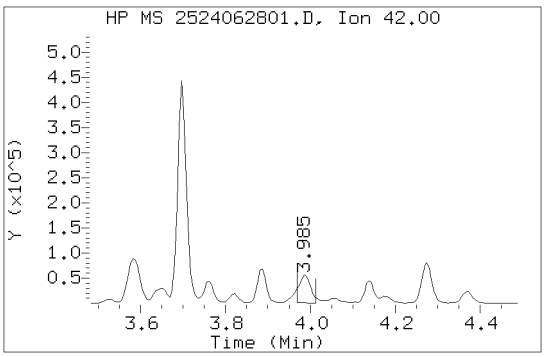
HEIGHT
55939
30-Jun-2024
14:58



BEFORE
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HEIGHT
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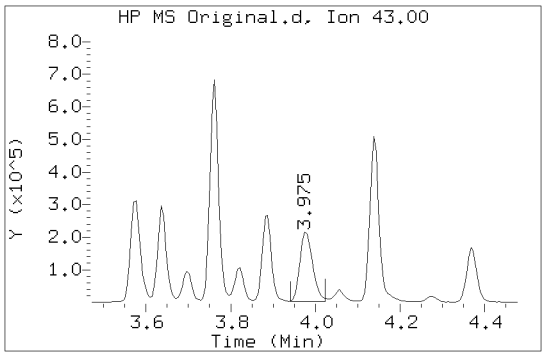
28-Jun-2024
10:05



AFTER
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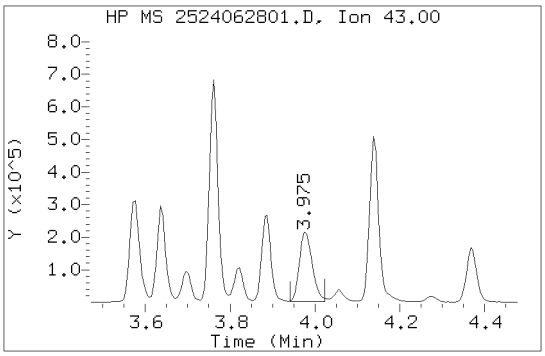
30-Jun-2024
14:58



BEFORE
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74
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HEIGHT
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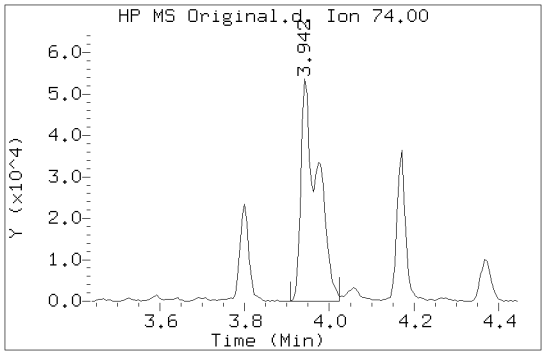
28-Jun-2024
10:05



AFTER
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30-Jun-2024
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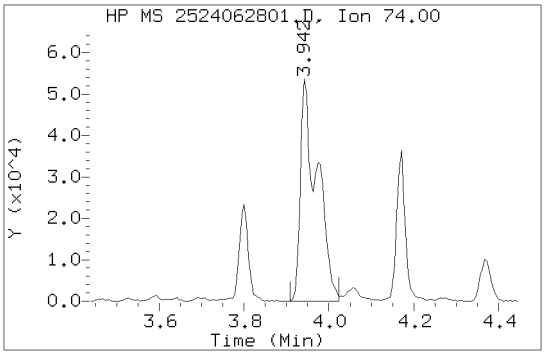

Pentachloroethane (76-01-7)

Reason Code:

BEFORE
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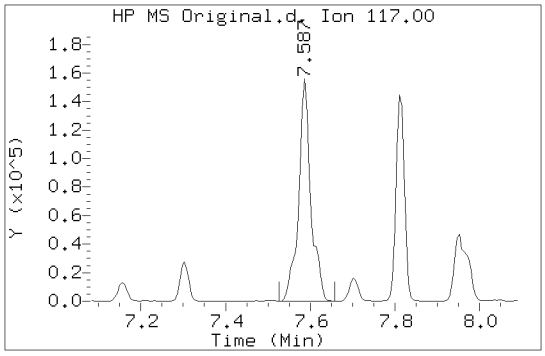
28-Jun-2024
10:05



AFTER
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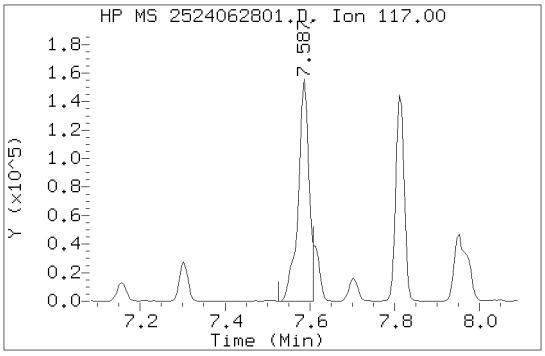
30-Jun-2024
14:58



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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

Pentachloroethane (76-01-7)

Reason Code:

BEFORE
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HEIGHT
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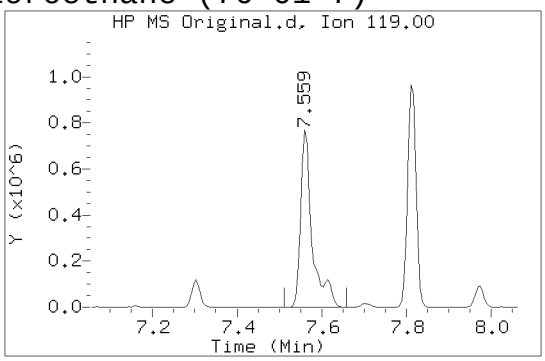
28-Jun-2024
10:05



AFTER
MASS
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HEIGHT
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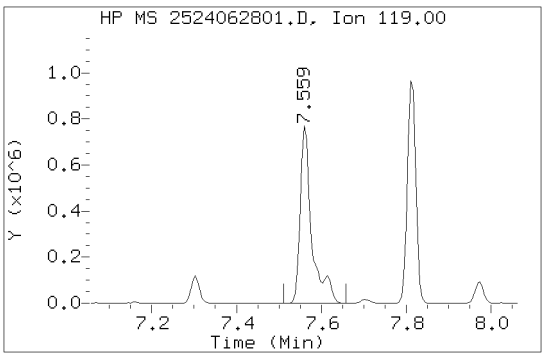
30-Jun-2024
14:58



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HEIGHT
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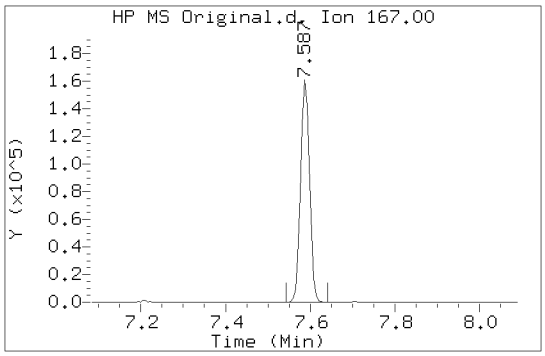
28-Jun-2024
10:05



AFTER
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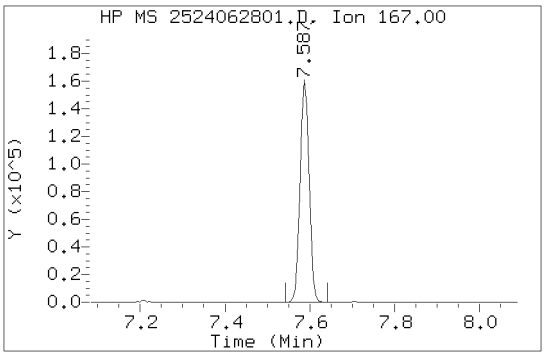
30-Jun-2024
14:58



1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

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HEIGHT
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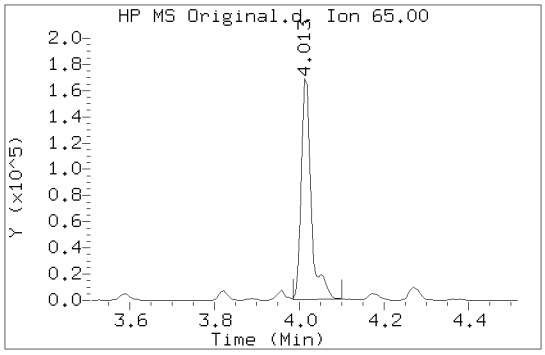
28-Jun-2024
10:05



AFTER
MASS
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HEIGHT
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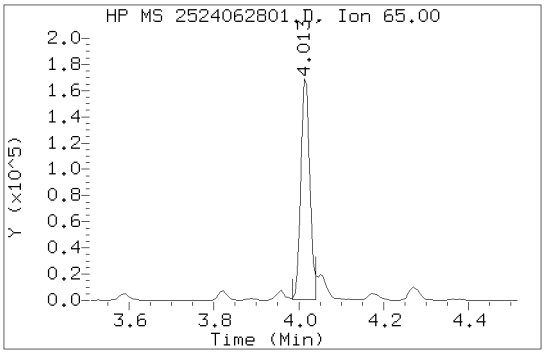
30-Jun-2024
14:58



BEFORE
MASS
102
AREA
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HEIGHT
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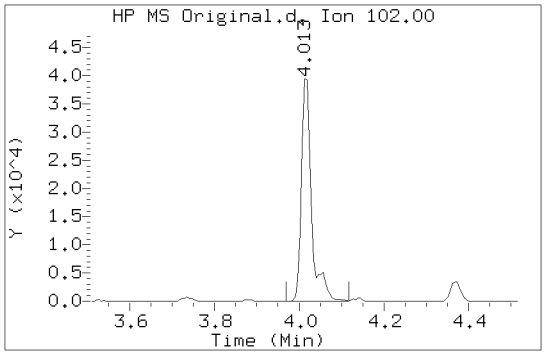
28-Jun-2024
10:05



AFTER
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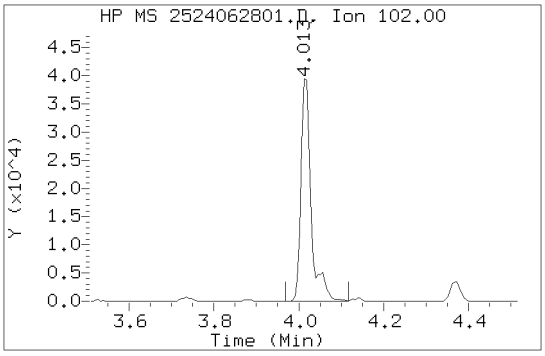
30-Jun-2024
14:58



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Inj Date : 28-JUN-2024 09:53
InstruID : ms25.i
LabSampID : 1800

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE

MASS
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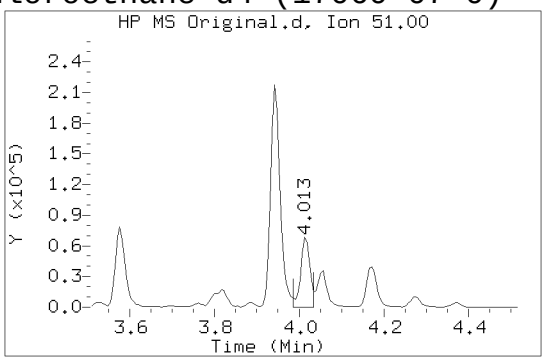
28-Jun-2024
10:05



AFTER

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HEIGHT
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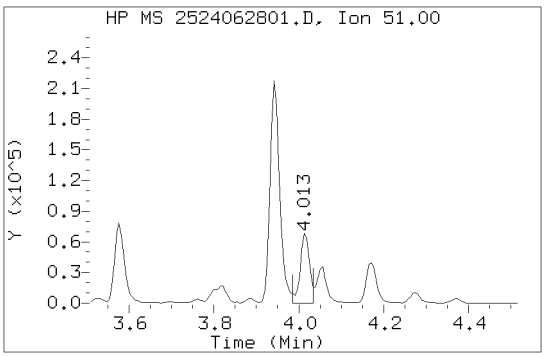
30-Jun-2024
14:58



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 14:58
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 09:53
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062802.D Page 1
Report Date: 30-Jun-2024 15:00

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Lab Smp Id: 3845976 Client Smp ID: LCS for HBN 1236144
Inj Date : 28-JUN-2024 10:23
Operator : TMP Inst ID: ms25.i
Smp Info : 3845976;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	231494	20.1179	20.1179	
2 Chloromethane	50	1.644	1.644	(0.394)	202494	20.0810	20.0810	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	256702	19.7339	19.7339	
4 Bromomethane	94	1.922	1.922	(0.461)	126243	20.0141	20.0141	
5 Chloroethane	64	1.999	2.004	(0.479)	180018	20.3059	20.3059	
6 Pentane	41	2.086	2.092	(0.500)	172226	20.6347	20.6347	
7 Trichlorofluoromethane	101	2.092	2.097	(0.502)	343768	19.2935	19.2935	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	355400	21.5567	21.5567	
9 Ethyl Ether	74	2.277	2.277	(0.546)	106843	21.3110	21.3110	
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	215374	21.5281	21.5281	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	455997	21.1293	21.1293	
11 Freon 113	101	2.424	2.424	(0.581)	149869	21.2984	21.2984	
13 Iodomethane	127	2.506	2.506	(0.601)	73359	19.2324	19.2324	
14 Acrolein	56	2.599	2.599	(0.623)	250559	155.270	155.270	
16 3-Chloro-1-propene	41	2.675	2.681	(0.642)	184153	21.2251	21.2251	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	49756	92.3501	92.3501	
17 Methylene Chloride	84	2.735	2.741	(0.656)	175173	21.4358	21.4358	
18 Acetone	58	2.752	2.752	(0.660)	97878	108.106	108.106	
19 Methyl acetate	74	2.817	2.817	(0.676)	35247	18.6897	18.6897	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	211089	21.5428	21.5428	
21 Hexane	57	2.861	2.866	(0.686)	339205	20.6399	20.6399	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	487666	19.5409	19.5409	

Data File: 2524062802.D
Report Date: 30-Jun-2024 15:00

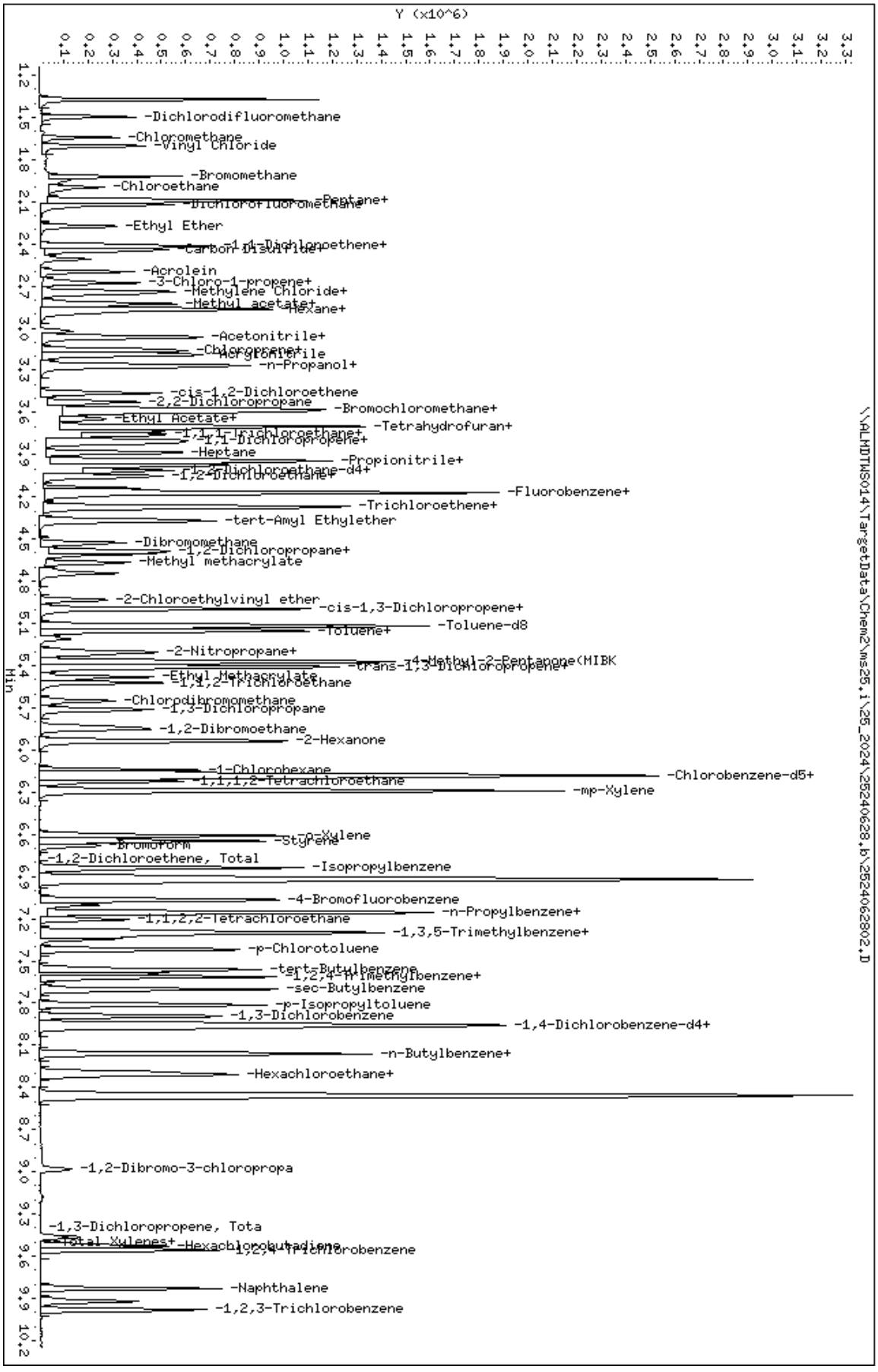
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	91568	101.310	101.310	
24 Acetonitrile	41	3.019	3.019	(0.724)	107091	105.776	105.776	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	467800	21.5114	21.5114	
26 Chloroprene	53	3.150	3.156	(0.755)	174316	15.8106	15.8106(Q)	
27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	278259	20.8442	20.8442	
28 Acrylonitrile	53	3.188	3.188	(0.765)	425900	122.502	122.502(Q)	
30 n-Propanol	41	3.265	3.265	(0.783)	87932	205.244	205.244	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	500124	21.6534	21.6534	
31 Vinyl acetate	86	3.276	3.276	(0.785)	38750	17.2582	17.2582(Q)	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	209928	21.1296	21.1296	
33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	226731	21.3100	21.3100	
M 100 1,2-Dichloroethene, Total	61				421017	42.6723	42.6723	
34 Bromochloromethane	128	3.576	3.576	(0.857)	90818	21.1969	21.1969	
35 Cyclohexane	84	3.587	3.592	(0.860)	249682	20.9444	20.9444	
36 Chloroform	83	3.598	3.598	(0.863)	300003	20.8174	20.8174	
37 Ethyl acetate	43	3.636	3.636	(0.872)	162550	18.7580	18.7580	
38 Methyl acrylate	55	3.652	3.652	(0.876)	166492	20.8105	20.8105	
39 Carbon Tetrachloride	117	3.696	3.701	(0.886)	181999	17.4434	17.4434(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	243277	99.4669	99.4669	
$ 41 Dibromofluoromethane	113	3.701	3.707	(0.887)	243373	29.6597	29.6597	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	241257	21.5082	21.5082	
43 2-Butanone	72	3.761	3.761	(0.902)	122737	103.807	103.807(M)	MP
44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	218128	20.5582	20.5582	
45 1-Chlorobutane	41	3.816	3.821	(0.915)	145599	21.3387	21.3387	
46 Heptane	71	3.887	3.887	(0.932)	135221	21.9359	21.9359	
48 Propionitrile	54	3.941	3.941	(0.945)	138285	105.037	105.037	
47 Benzene	78	3.941	3.941	(0.945)	647800	19.8637	19.8637	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	82372	20.8717	20.8717	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	481050	21.5763	21.5763	
$ 51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	263383	30.4494	30.4494(M)	MP
54 Isobutyl alcohol	42	3.990	3.985	(0.957)	34767	175.782	175.782(QM)	MP
52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	201940	19.6977	19.6977	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	71704	103.400	103.400	
* 55 Fluorobenzene	96	4.171	4.171	(1.000)	1039946	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	412226	19.5821	19.5821	
57 Trichloroethene	95	4.269	4.269	(1.024)	166800	20.2090	20.2090	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	268267	20.9059	20.9059	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	356901	18.5302	18.5302	
60 Dibromomethane	93	4.525	4.525	(1.085)	105436	20.2070	20.2070	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	163300	20.8051	20.8051	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	203412	18.8398	18.8398	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	128785	20.7318	20.7318	
65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	109540	19.2984	19.2984	
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	249923	18.8502	18.8502	
67 Octane	85	5.000	5.000	(0.810)	127294	26.1627	26.1627(R)	
$ 68 Toluene-d8	98	5.114	5.120	(0.829)	950149	30.3358	30.3358	
69 Toluene	92	5.153	5.153	(0.835)	389709	19.6308	19.6308	
70 Chloroacetonitrile	75	5.213	5.213	(0.844)	51068	103.192	103.192	
71 2-Nitropropane	41	5.300	5.300	(0.859)	187593	87.3976	87.3976	
72 1,1-Dichloro-2-propanone	63	5.311	5.316	(0.860)	17821	85.9578	85.9578(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	808385	103.708	103.708	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	240414	19.5802	19.5802	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	145946	20.1896	20.1896	
76 Ethyl methacrylate	69	5.480	5.480	(0.888)	225465	19.0396	19.0396	

Data File: 2524062802.D Page 3
Report Date: 30-Jun-2024 15:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	126511	20.7415	20.7415	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	154283	18.0809	18.0809	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	260665	21.6300	21.6300	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	152760	18.9619	18.9619	
	81 2-Hexanone	43	5.933	5.933	(0.961)	551268	103.152	103.152	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	221200	21.1803	21.1803	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	395604	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	227417	19.1436	19.1436	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	415957	20.5609	20.5609	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	144525	19.1183	19.1183	
	87 mp-Xylene	106	6.288	6.288	(1.019)	552630	38.8678	38.8678	
M	120 1,3-Dichloropropene, Total	75				490337	38.4304	38.4304	
	88 o-Xylene	106	6.610	6.610	(1.071)	259660	19.2872	19.2872	
	89 Styrene	104	6.648	6.648	(0.836)	405336	21.2208	21.2208	
	90 Bromoform	173	6.680	6.680	(0.840)	97012	18.0686	18.0686	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	646497	24.1574	24.1574	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	262843	29.1841	29.1841	
M	121 TOTAL XYLENES	106				812290	58.1550	58.1550	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	166113	21.1049	21.1049	
	93 Bromobenzene	156	7.155	7.155	(0.900)	154585	20.0835	20.0835	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	165022	21.5705	21.5705	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	463354	21.1526	21.1526	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	443949	21.4384	21.4384	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	52367	21.2231	21.2231	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	45078	19.3804	19.3804	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	420066	22.3950	22.3950	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	118054	22.5335	22.5335	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	96827	18.5894	18.5894(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	469155	20.1355	20.1355	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	620753	22.9286	22.9286	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	134907	21.7599	21.7599	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	286011	22.0560	22.0560	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	325554	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	294406	21.7810	21.7810	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	123630	21.3384	21.3384	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	57697	18.1113	18.1113(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	84110	18.3529	18.3529	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	270878	21.9293	21.9293	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	27345	18.9493	18.9493	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	72687	164.996	164.996	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	91996	22.6501	22.6501	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	197198	24.1070	24.1070	
	118 Naphthalene	128	9.829	9.829	(1.236)	474430	19.9252	19.9252	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	177185	19.4574	19.4574	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Carbon Disulfide+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene+
-Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane
-mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes+
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1

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InstruID : ms25.i
LabSampID : 3845976

2-Butanone (78-93-3)

Reason Code: MP

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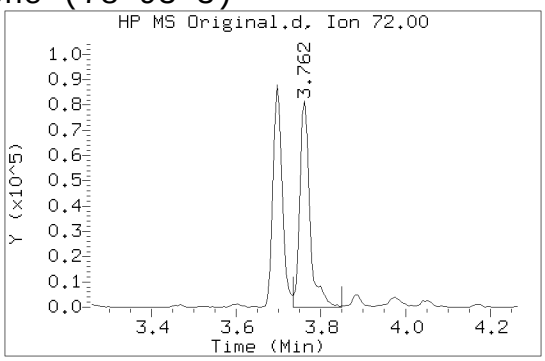

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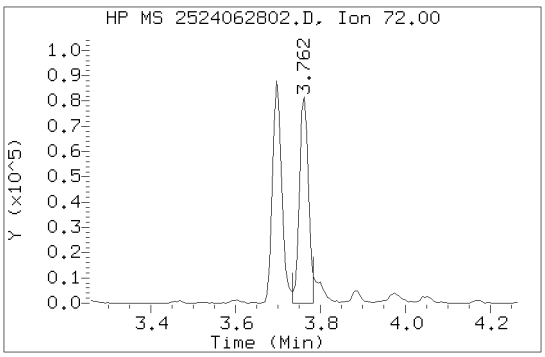

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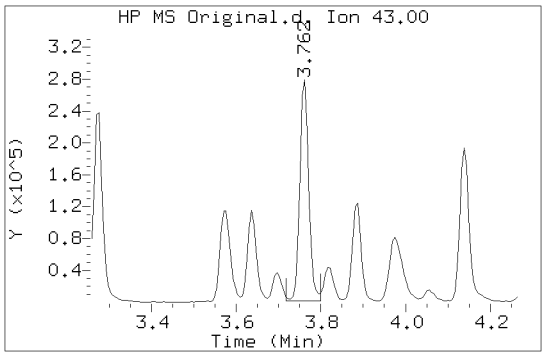

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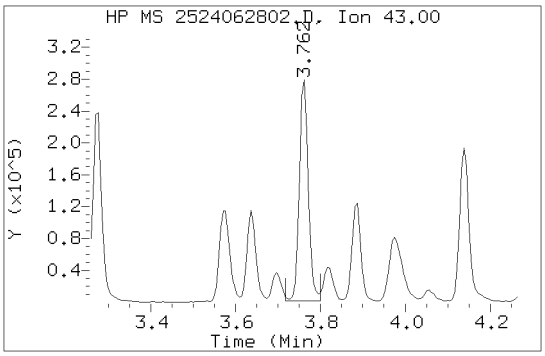

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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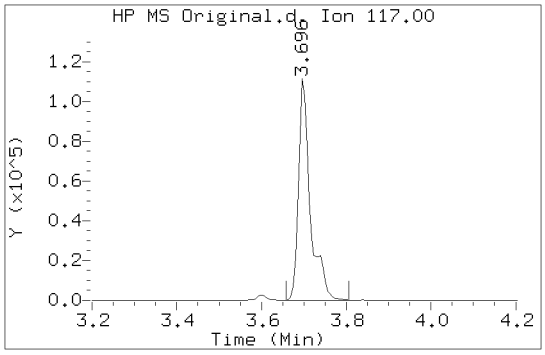

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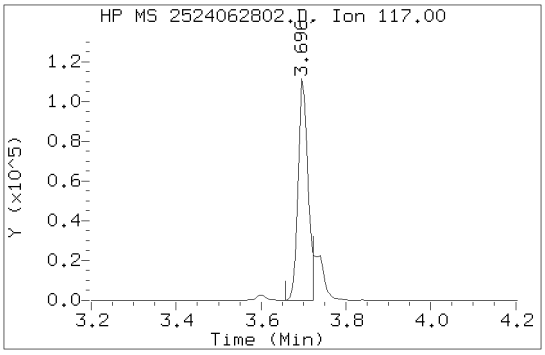

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28-Jun-2024
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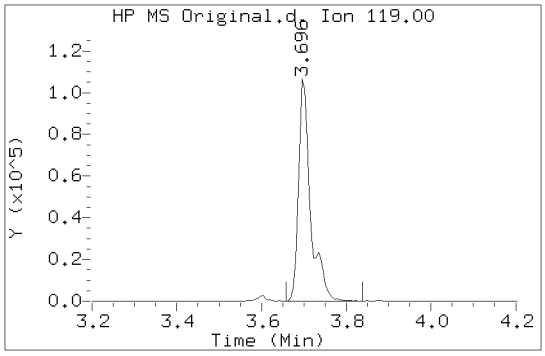

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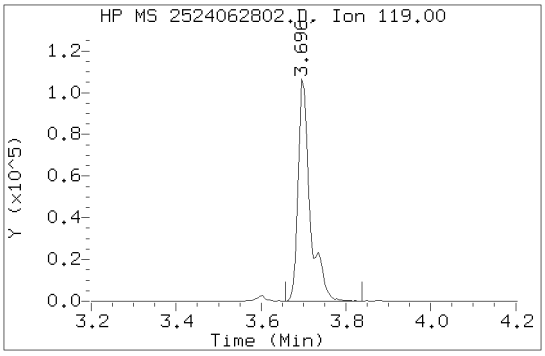

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LabSampID : 3845976

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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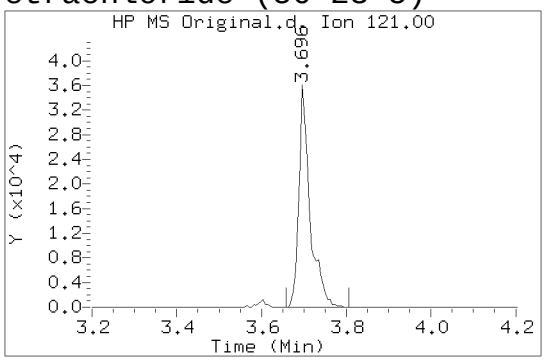

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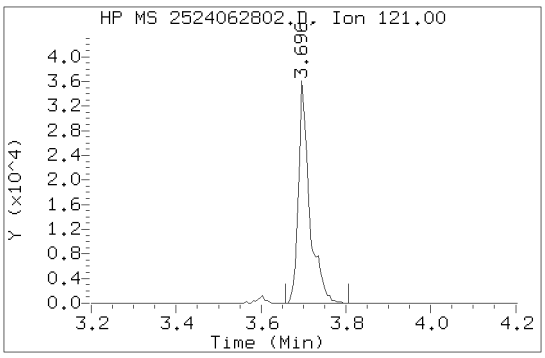

Isobutyl alcohol (78-83-1)

Reason Code: MP

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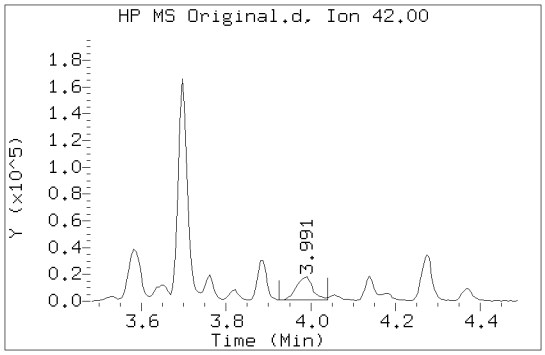

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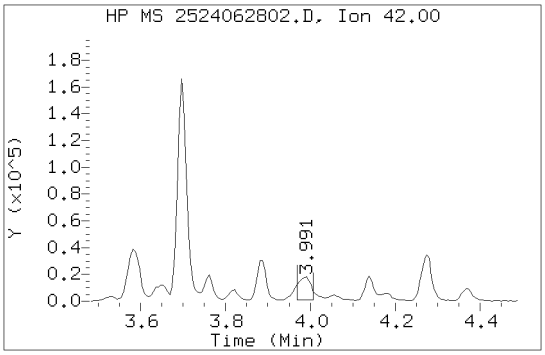

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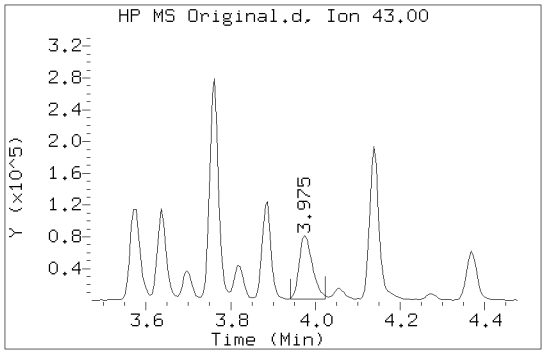

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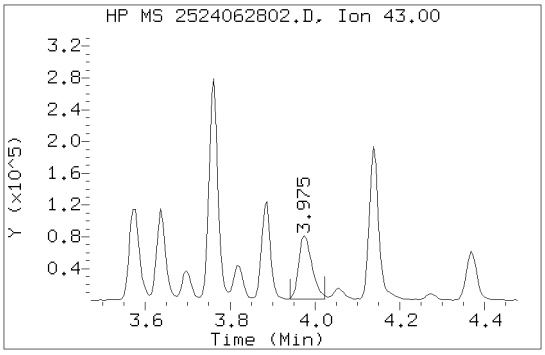

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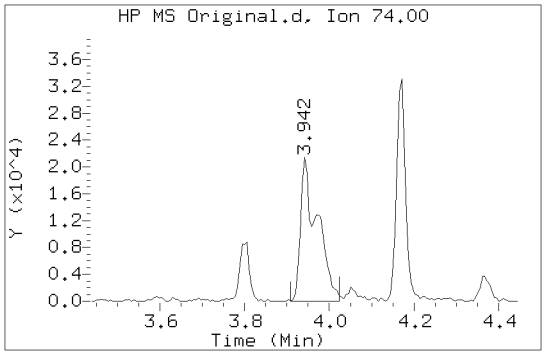

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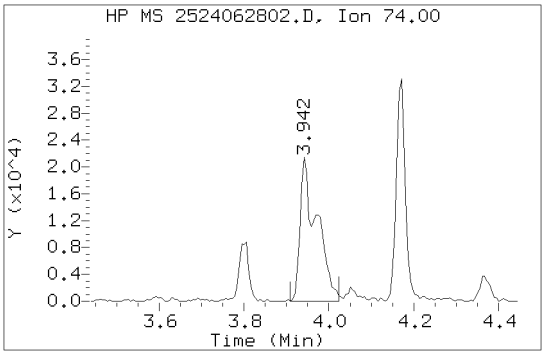

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InstruID : ms25.i
LabSampID : 3845976

Pentachloroethane (76-01-7)

Reason Code: MP

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28-Jun-2024
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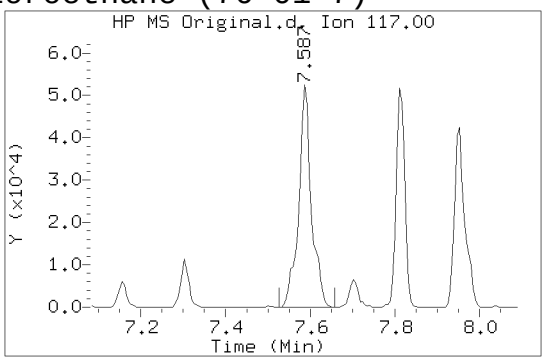

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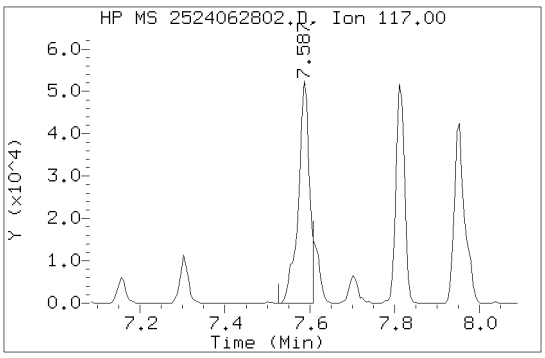

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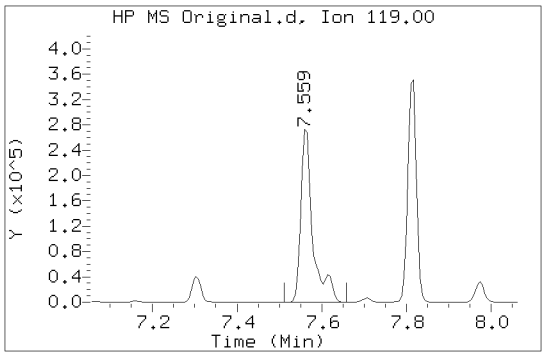

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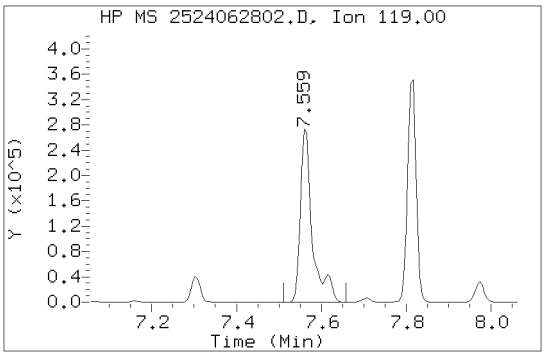

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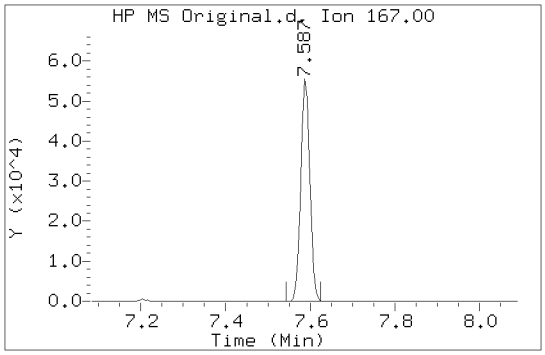

AFTER
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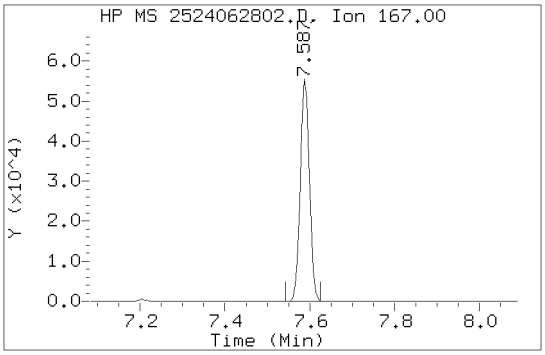
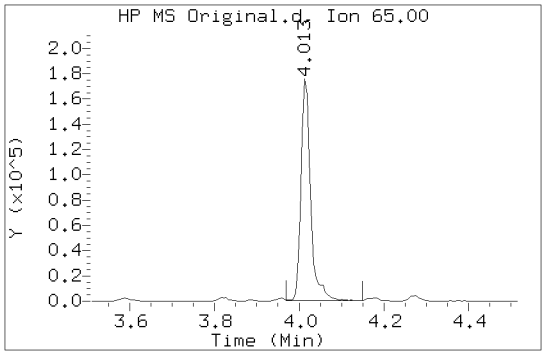
30-Jun-2024
15:00



1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
279018
HEIGHT
175513
28-Jun-2024
10:37



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AREA
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HEIGHT
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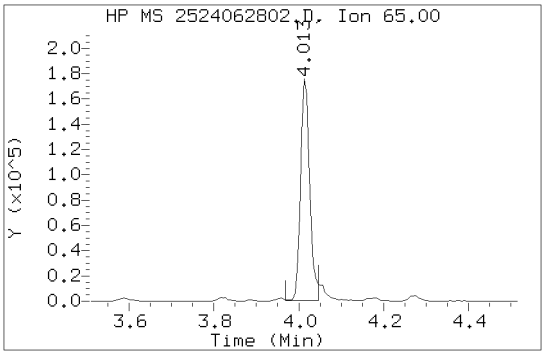
30-Jun-2024
15:00

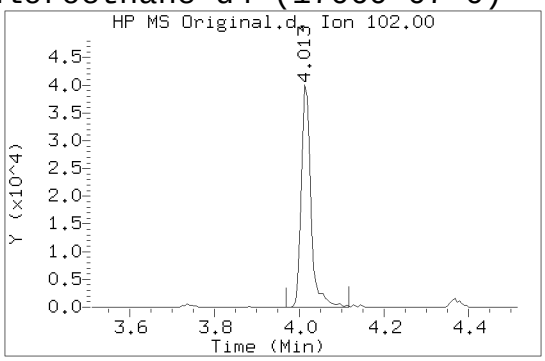


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

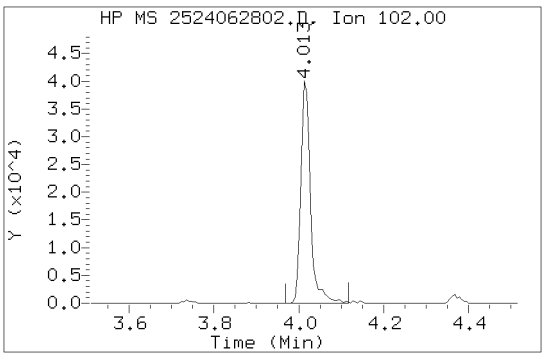
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

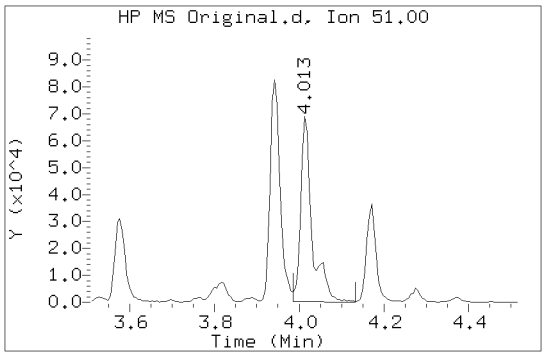
BEFORE
MASS
102
AREA
63884
HEIGHT
40056
28-Jun-2024
10:37



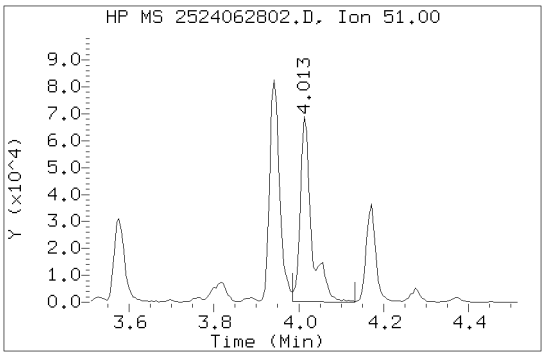
AFTER
MASS
102
AREA
63884
HEIGHT
40056
30-Jun-2024
15:00



BEFORE
MASS
51
AREA
129385
HEIGHT
68722
28-Jun-2024
10:37



AFTER
MASS
51
AREA
129385
HEIGHT
68722
30-Jun-2024
15:00



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:00
Client ID: LCS for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 10:23
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062804.D Page 1
Report Date: 29-Jun-2024 09:39

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Lab Smp Id: 3845975 Client Smp ID: MB for HBN 1236144
Inj Date : 28-JUN-2024 11:24
Operator : TMP Inst ID: ms25.i
Smp Info : 3845975;;1;3;;MB;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524062804.D Page 2
Report Date: 29-Jun-2024 09:39

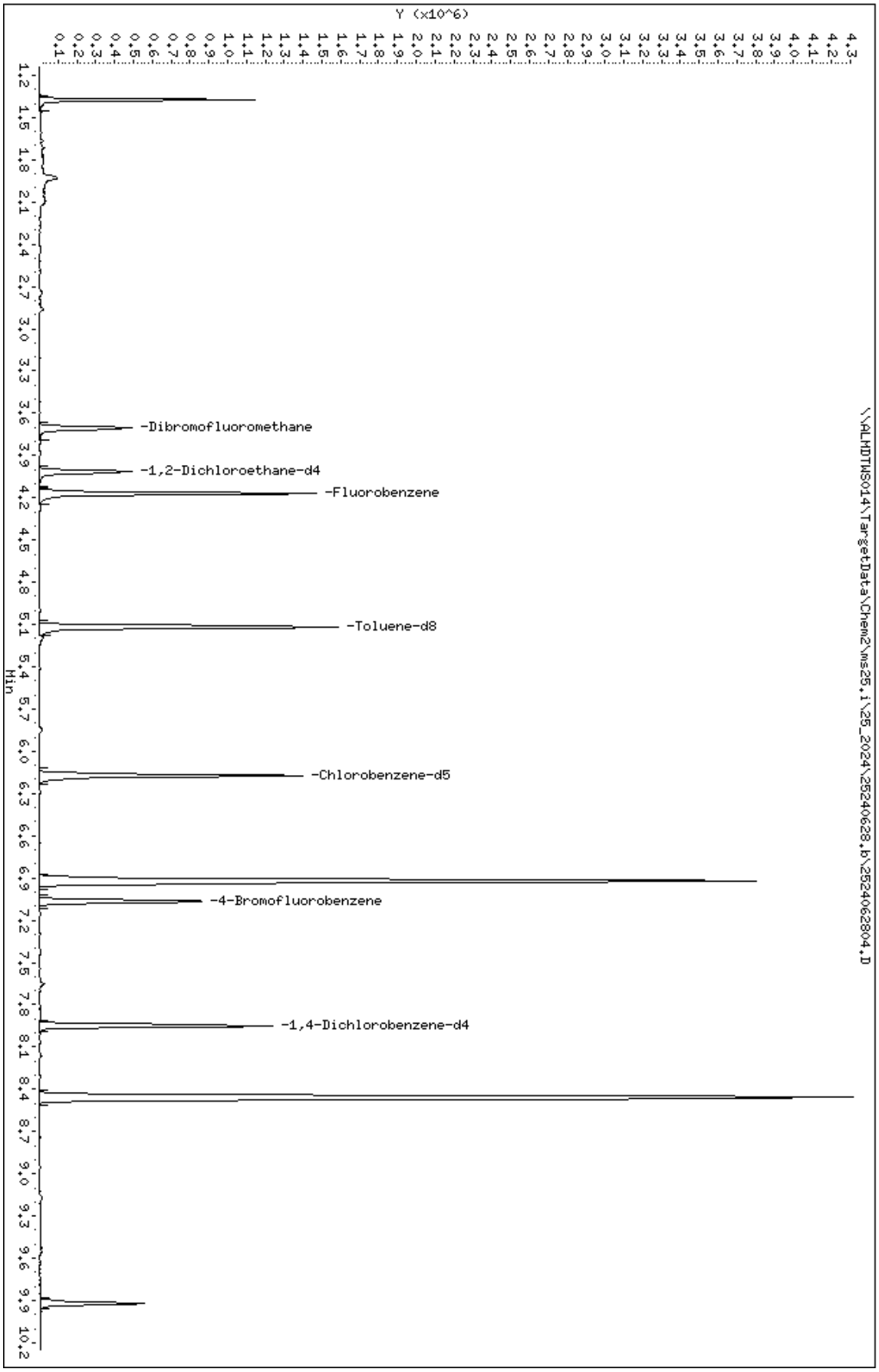
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	234435	27.6114	27.6114	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	274259	30.6424	30.6424	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1076068	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	926112	30.3157	30.3157	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524062804.D Page 3
Report Date: 29-Jun-2024 09:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	385851	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	228407	26.8243	26.8243	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	307789	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.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Date : 28-JUN-2024 11:24
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Sample Info: 3845975;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1
Y (x10^6)
Min
\\ALMDTMS014\TargetData\Chem2\ms25,i\25_2024\25240628,b\25240628004.D
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Inj Date : 28-JUN-2024 11:24
InstruID : ms25.i
LabSampID : 3845975

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/29/2024 09:39
Client ID: MB for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 11:24
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Acrolein
Benzyl Chloride
Bromoform
tert.- Butyl Alcohol
n-Butylbenzene
1-Chlorohexane
3-Chloro-1-propene
1,3-Dichlorobenzene
1,2-Dichloroethane
Ethyl methacrylate
Heptane
Hexachloroethane
Isopropylbenzene
Methacrylonitrile
2-Nitropropane
1,1,1,2-Tetrachloroethane
1,2,3-Trichloropropane
1,3,5-Trimethylbenzene

Data File: 2524062806.D Page 1
Report Date: 30-Jun-2024 15:03

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062806.D
Lab Smp Id: 3366026023 Client Smp ID: CG-041923-962
Inj Date : 28-JUN-2024 12:05
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026023;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	41610	2.30929	2.30929	
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.741	2.741	(0.657)	3762	0.45523	0.455228(a)	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062806.D Page 2
Report Date: 30-Jun-2024 15:03

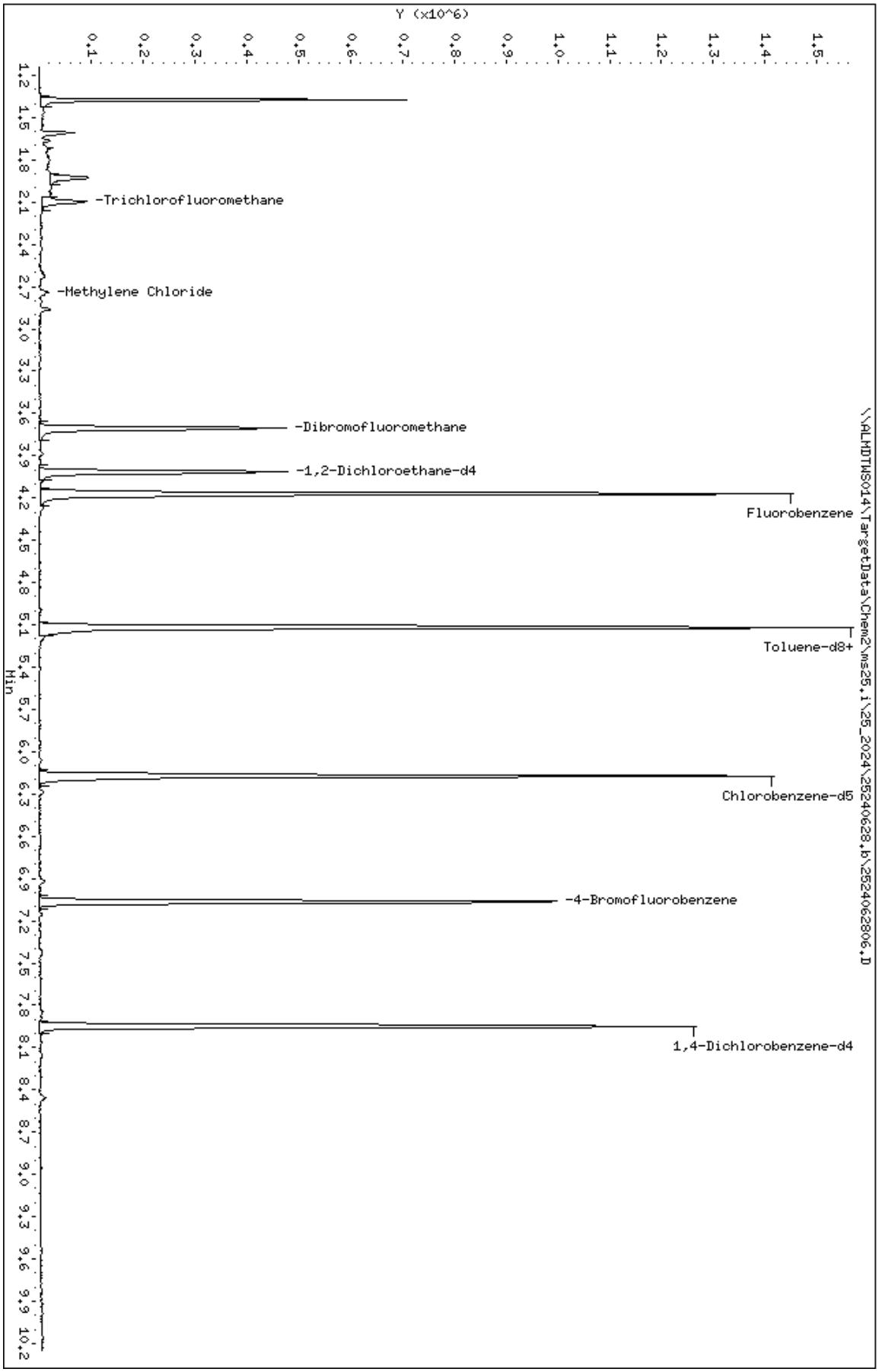
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	225388	27.1620	27.1620	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	260771	29.8117	29.8117	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1051658	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	889291	29.5994	29.5994	
	69 Toluene	92	5.153	5.153	(0.835)	5972	0.31361	0.313612(a)	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062806.D Page 3
Report Date: 30-Jun-2024 15:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	379477	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	255258	29.4858	29.4858	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	312924	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\25240628,b\2524062806,D
Date : 28-JUN-2024 12:05
Client ID: CC-041923-962
Sample Info: 33660260231;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062806.D Page 2

Date : 28-JUN-2024 12:05

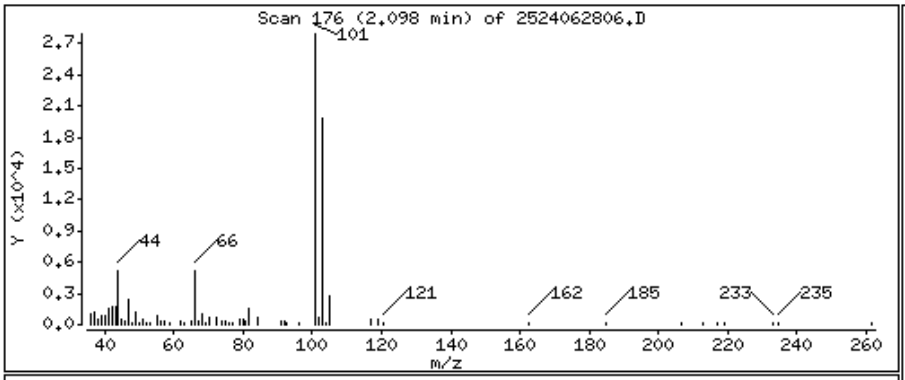
Client ID: CG-041923-962 Instrument: ms25.i

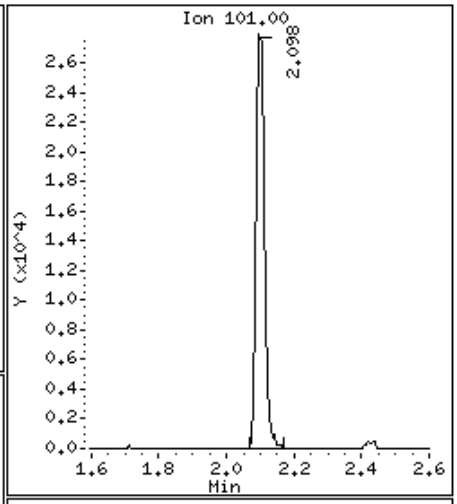
Sample Info: 3366026023;;1;;;;;

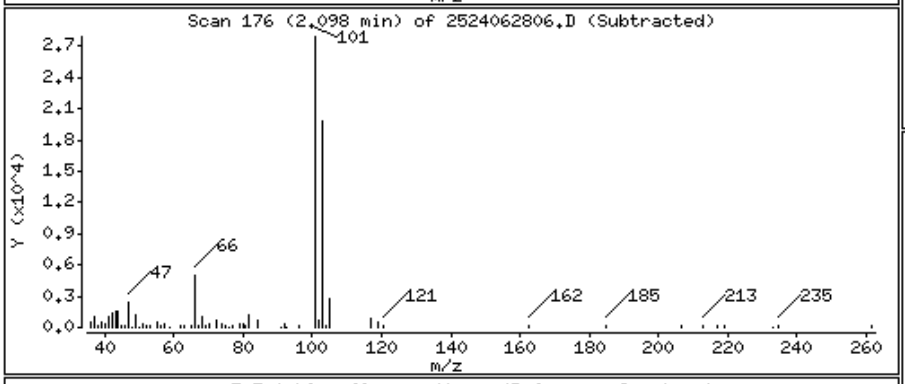
Purge Volume: 5.0 Operator: TMP

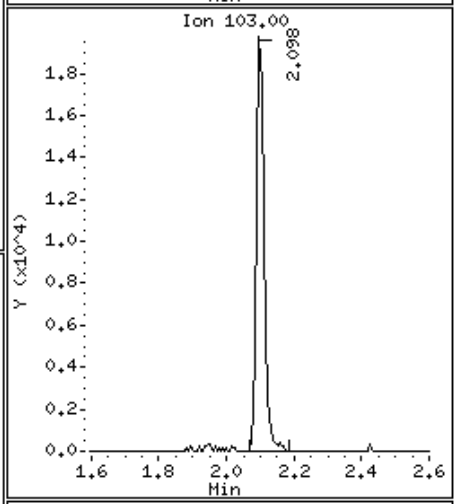
Column phase: DB-VRX Column diameter: 0.25

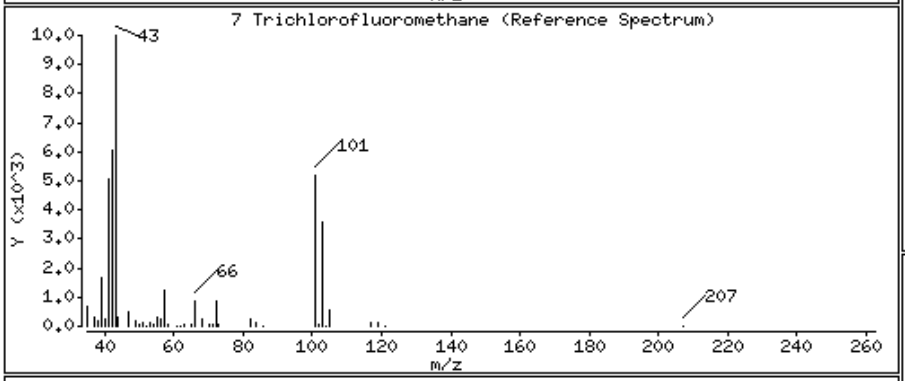
7 Trichlorofluoromethane Concentration: 2.30929 ug/L

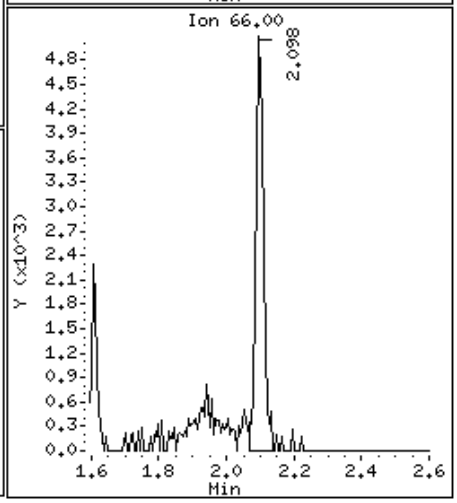


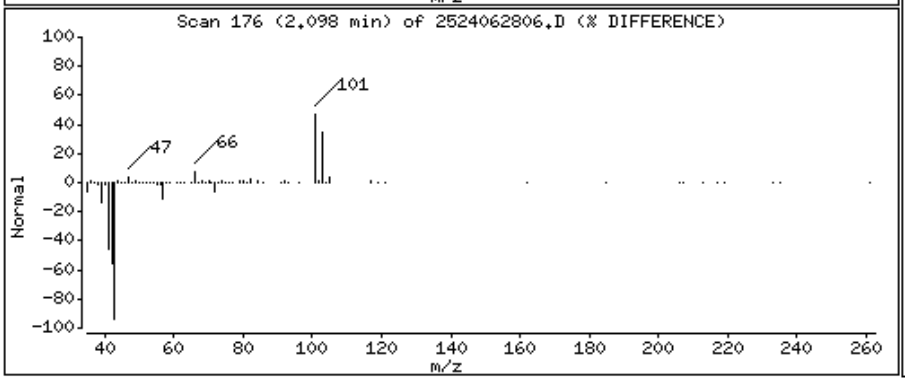












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062806.D Page 3

Date : 28-JUN-2024 12:05

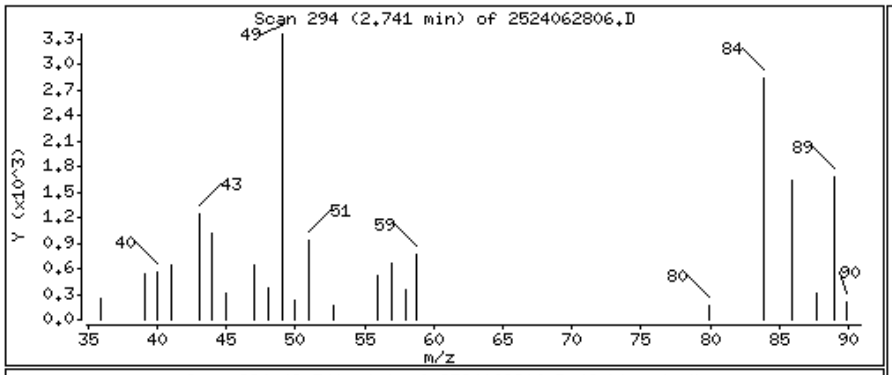
Client ID: CG-041923-962 Instrument: ms25.i

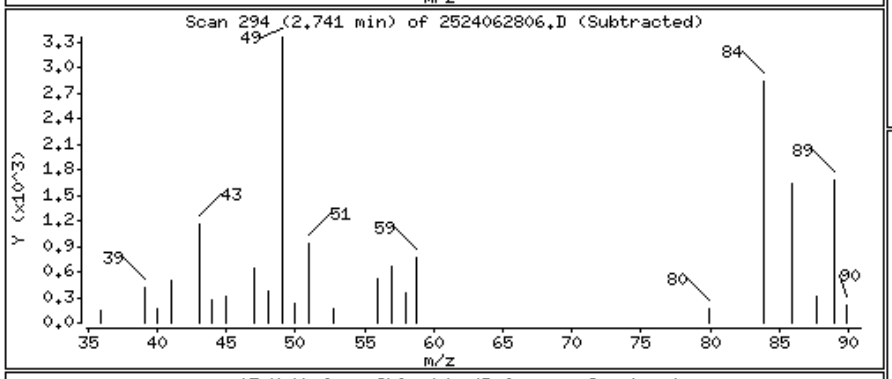
Sample Info: 3366026023;;1;;;;;

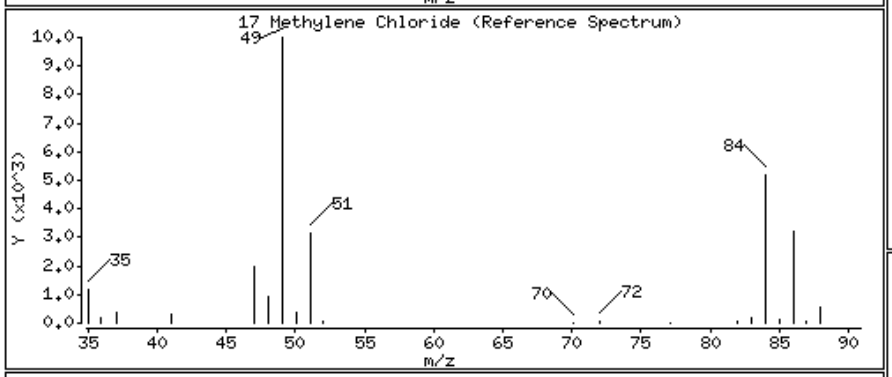
Purge Volume: 5.0 Operator: TMP

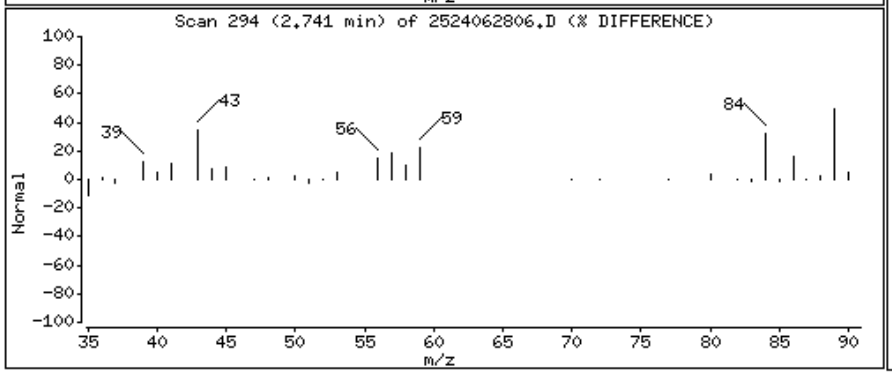
Column phase: DB-VRX Column diameter: 0.25

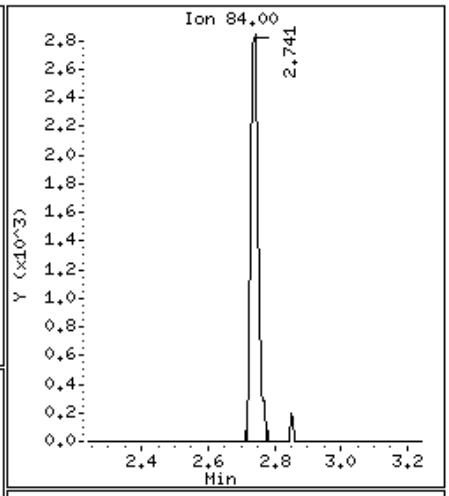
17 Methylene Chloride Concentration: 0.455228 ug/L

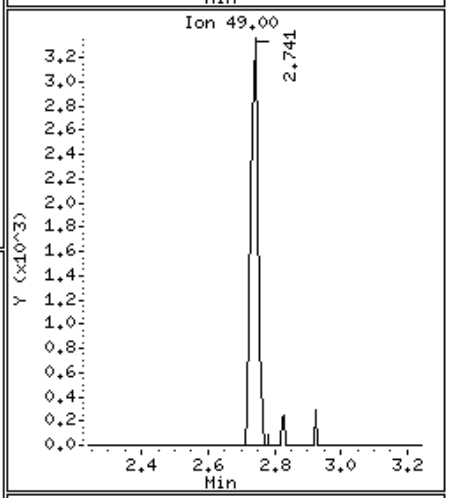


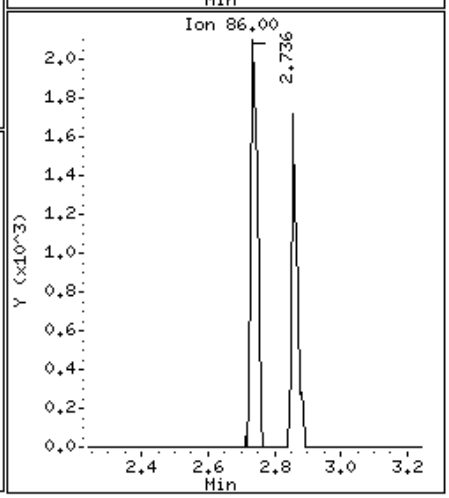












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062806.D Page 4

Date : 28-JUN-2024 12:05

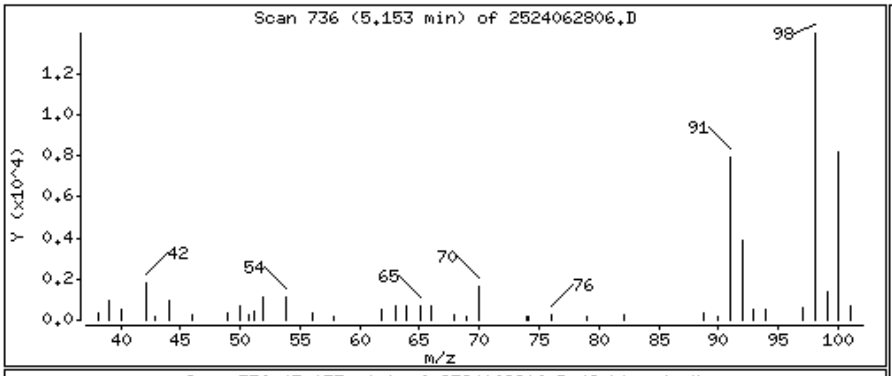
Client ID: CG-041923-962 Instrument: ms25.i

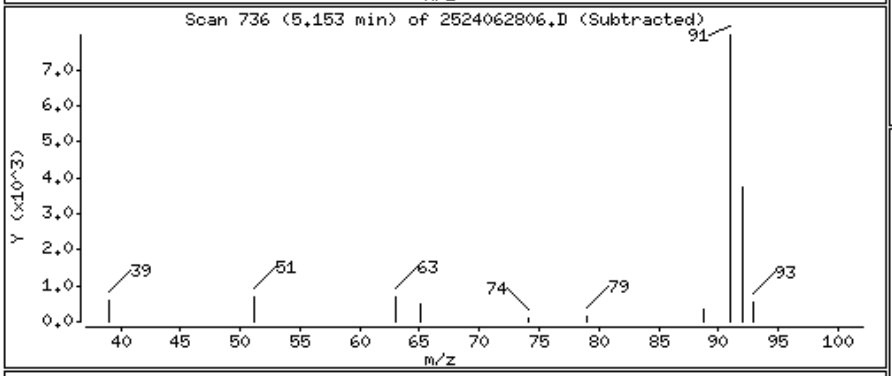
Sample Info: 3366026023;;1;;;;;

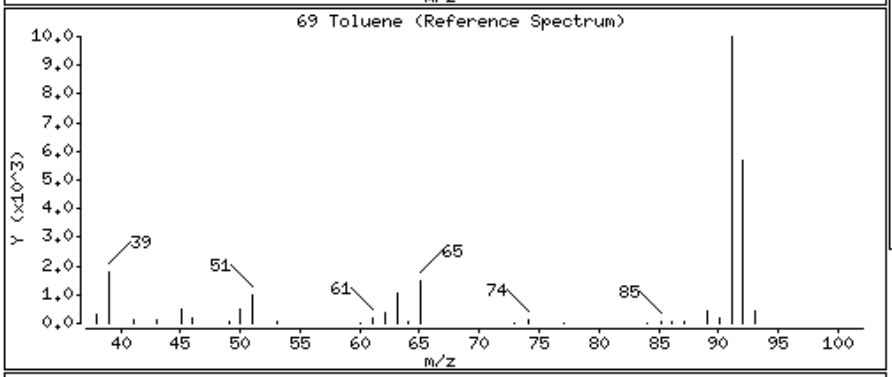
Purge Volume: 5.0 Operator: TMP

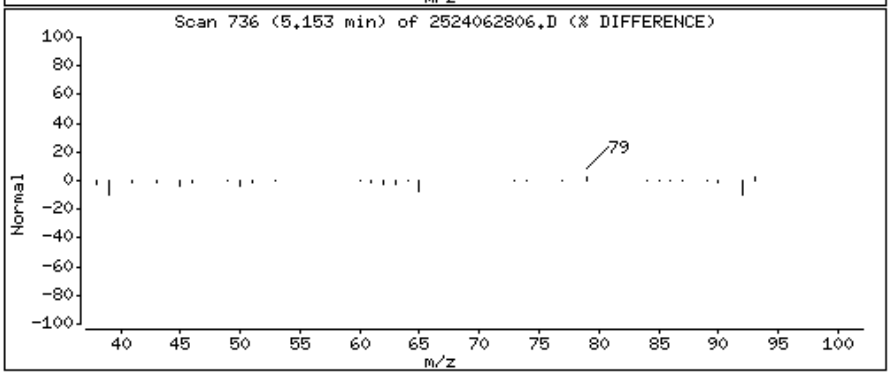
Column phase: DB-VRX Column diameter: 0.25

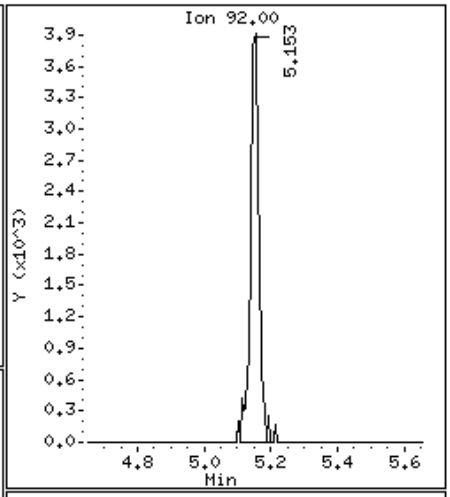
69 Toluene Concentration: 0.313612 ug/L

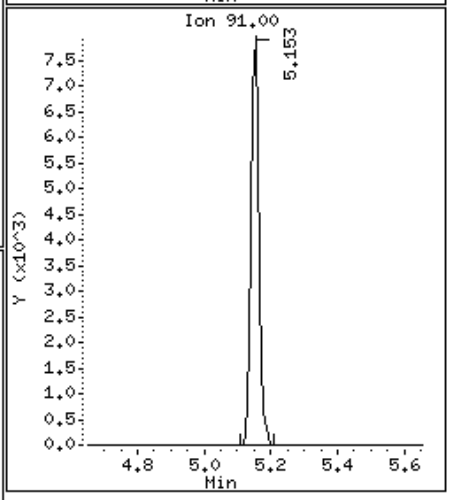












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062806.D
Inj Date : 28-JUN-2024 12:05
InstruID : ms25.i
LabSampID : 3366026023

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:03
Client ID: CG-041923-962
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 12:05
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1-Chlorohexane
1,2-Dichloroethane
Heptane
2-Nitropropane
Chloroethane
1,1-Dichloro-2-propanone
Ethyl methacrylate
Methacrylonitrile
Trichloroethene

Data File: 2524062811.D Page 1
Report Date: 30-Jun-2024 15:05

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062811.D
Lab Smp Id: 3366026001 Client Smp ID: ICT2_062024
Inj Date : 28-JUN-2024 13:27
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026001;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062811.D Page 2
Report Date: 30-Jun-2024 15:05

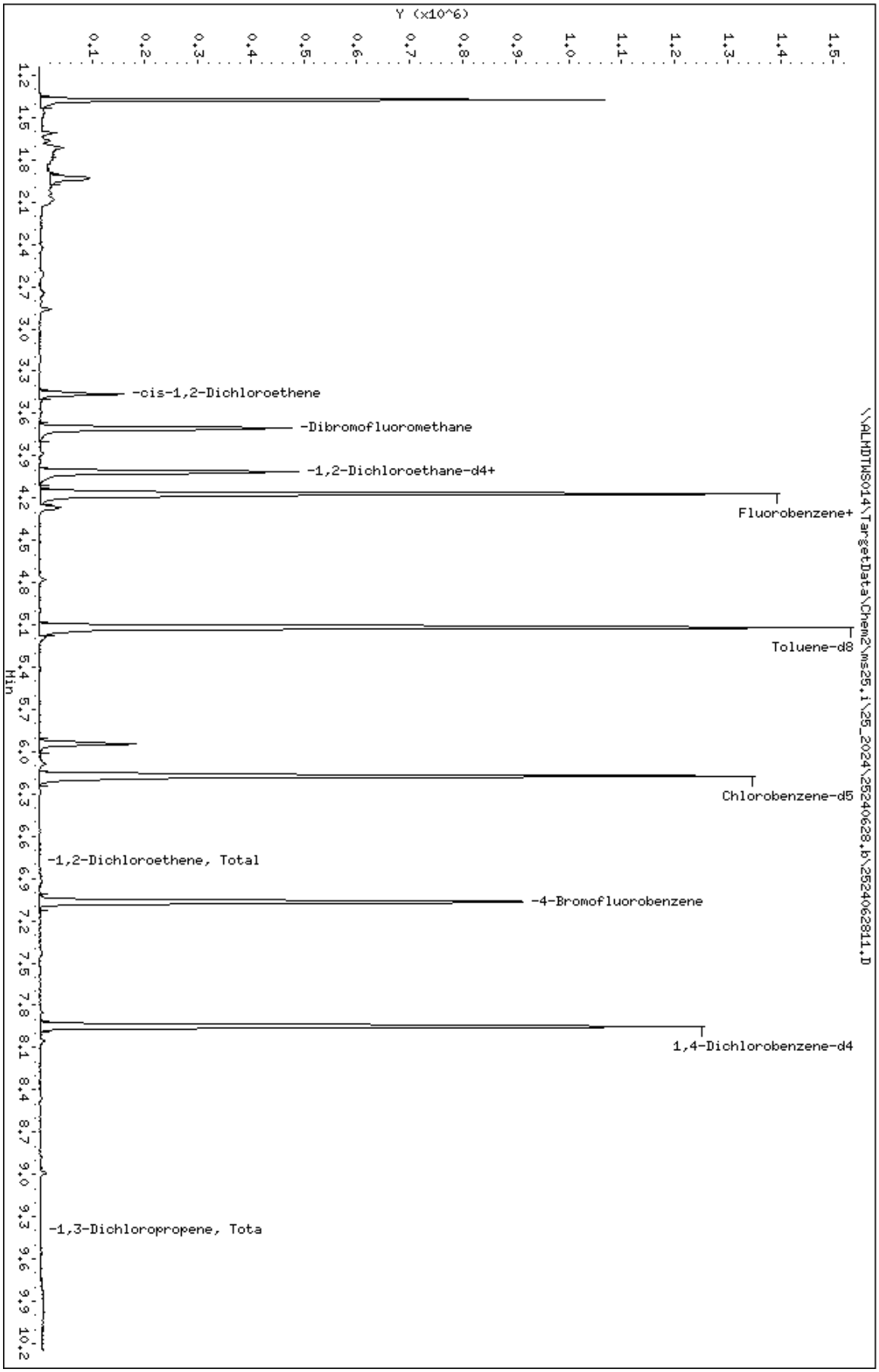
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	66174	6.90467	6.90467	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				66174	6.90467	6.90467	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	230683	29.1437	29.1437	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.017	4.012	(0.963)	268289	32.1536	32.1536	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	5057	0.51135	0.511355(a)	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1003172	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.268	4.269	(1.024)	10763	1.35181	1.35181(H)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	881117	30.7170	30.7170	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062811.D Page 3
Report Date: 30-Jun-2024 15:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	362309	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	235710	27.7877	27.7877	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.951	7.952	(1.000)	306618	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240628,b\2524062811.D
Date : 28-JUN-2024 13:27
Client ID: ICT2_062024
Sample Info: 33660260001;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062811.D Page 2

Date : 28-JUN-2024 13:27

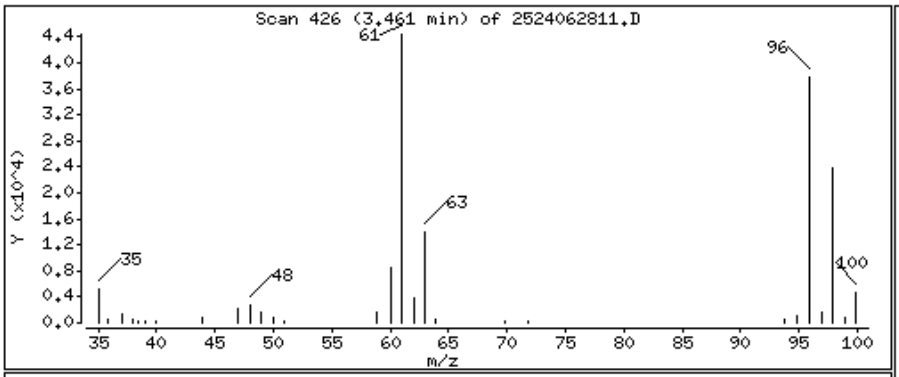
Client ID: ICT2_062024 Instrument: ms25.i

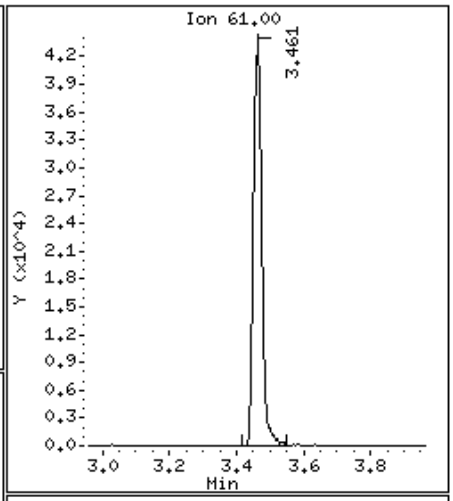
Sample Info: 3366026001;;1;;;;;

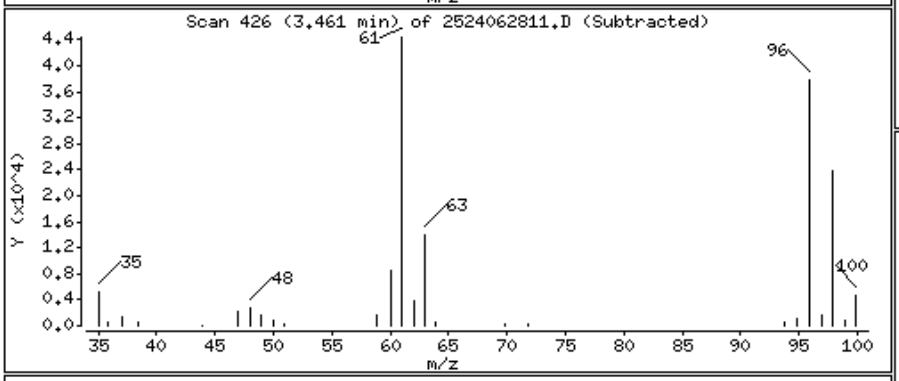
Purge Volume: 5.0 Operator: TMP

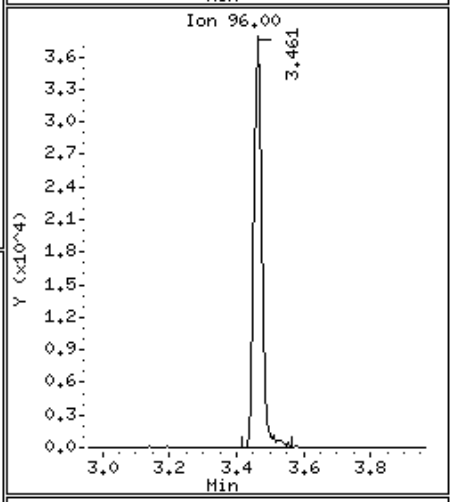
Column phase: DB-VRX Column diameter: 0.25

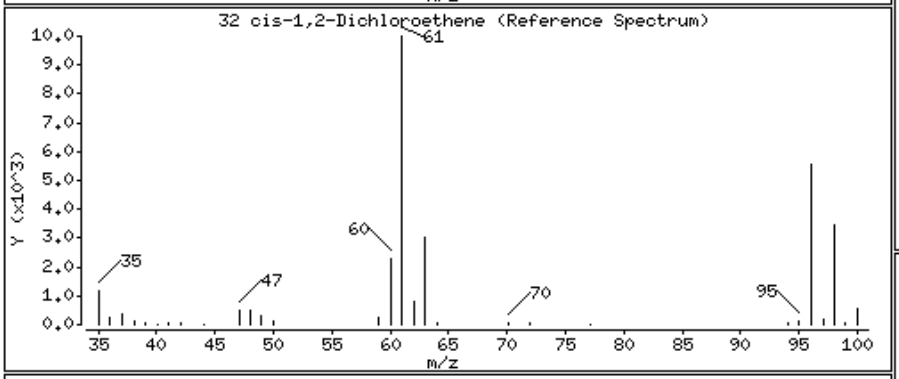
32 cis-1,2-Dichloroethene Concentration: 6.90467 ug/L

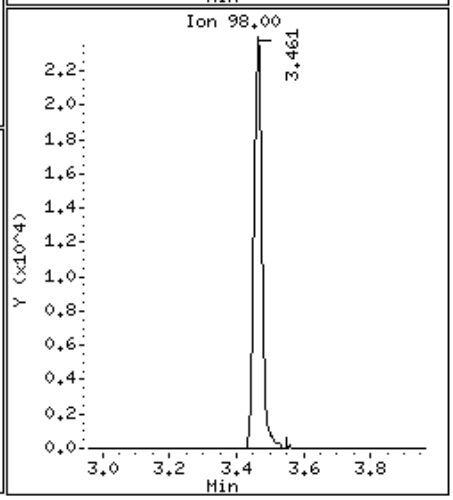


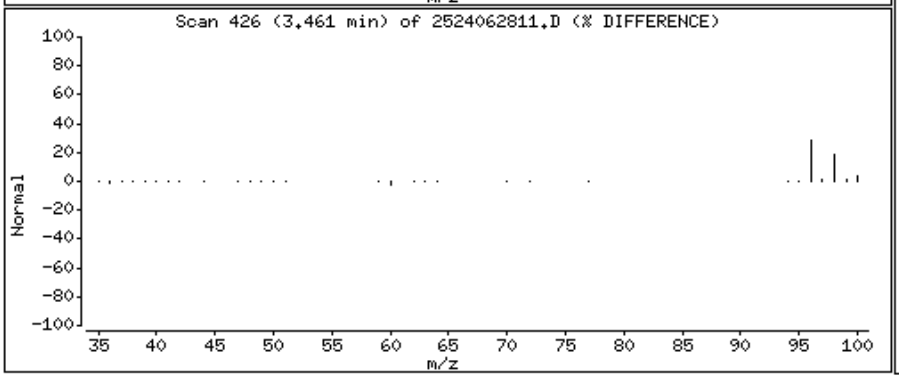












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062811.D Page 3

Date : 28-JUN-2024 13:27

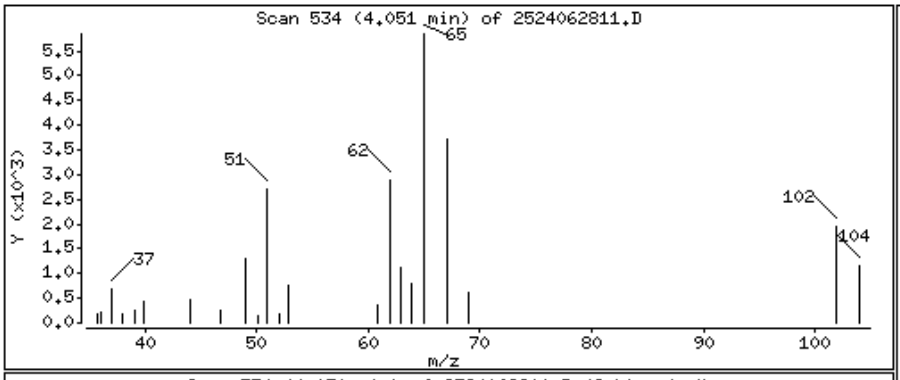
Client ID: ICT2_062024 Instrument: ms25.i

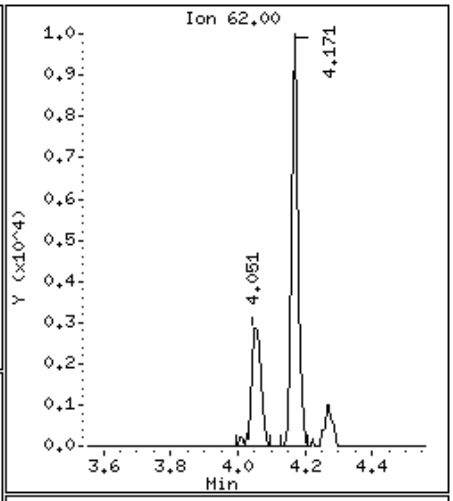
Sample Info: 3366026001;;1;;;;;

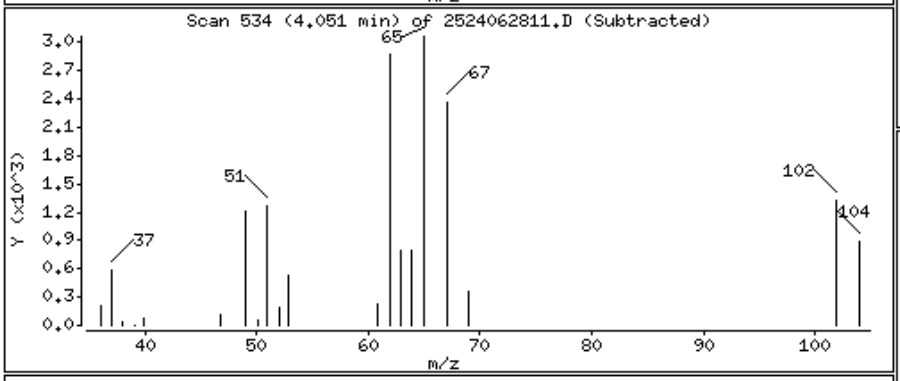
Purge Volume: 5.0 Operator: TMP

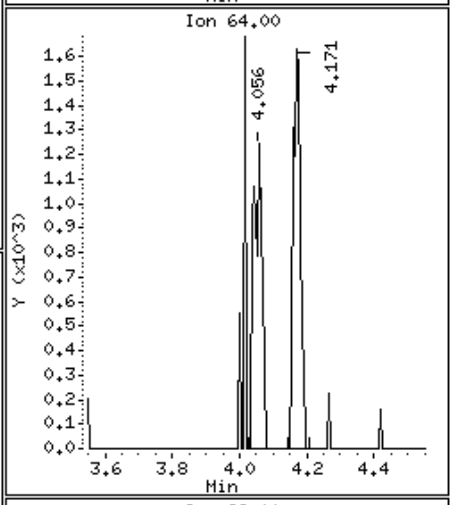
Column phase: DB-VRX Column diameter: 0.25

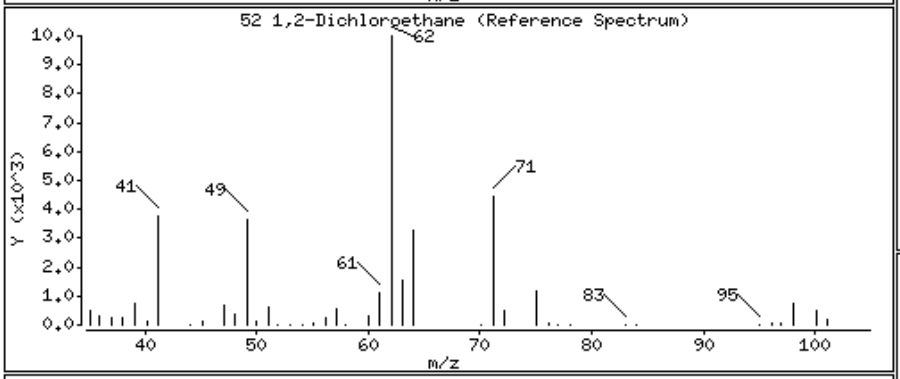
52 1,2-Dichloroethane Concentration: 0.511355 ug/L

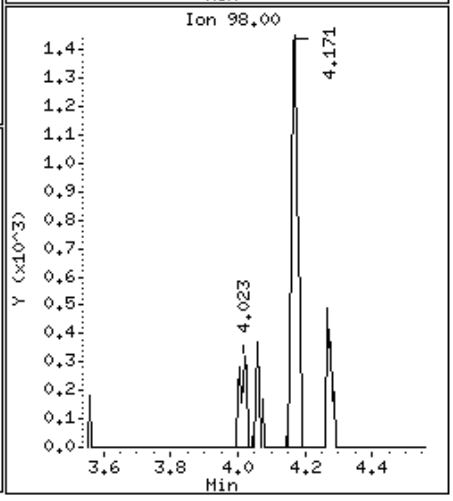


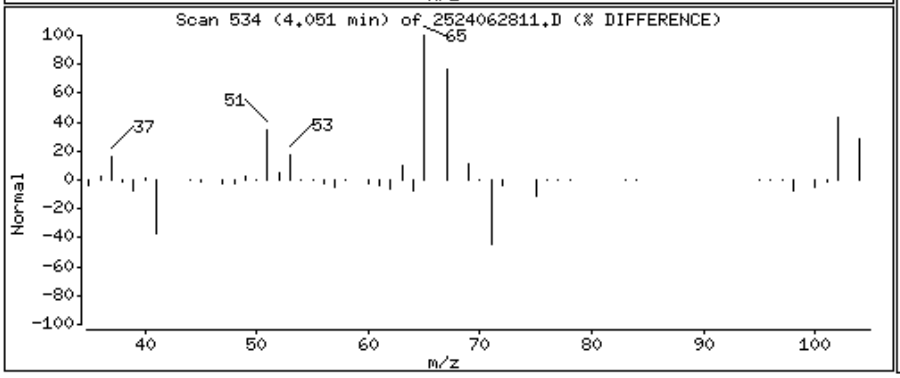












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062811.D Page 4

Date : 28-JUN-2024 13:27

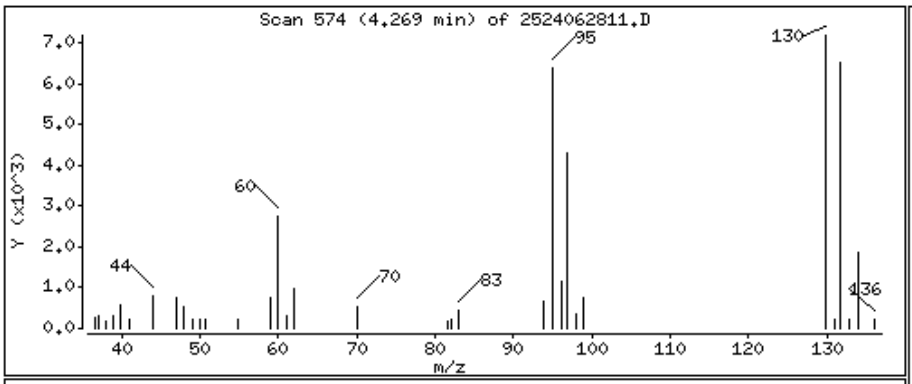
Client ID: ICT2_062024 Instrument: ms25.i

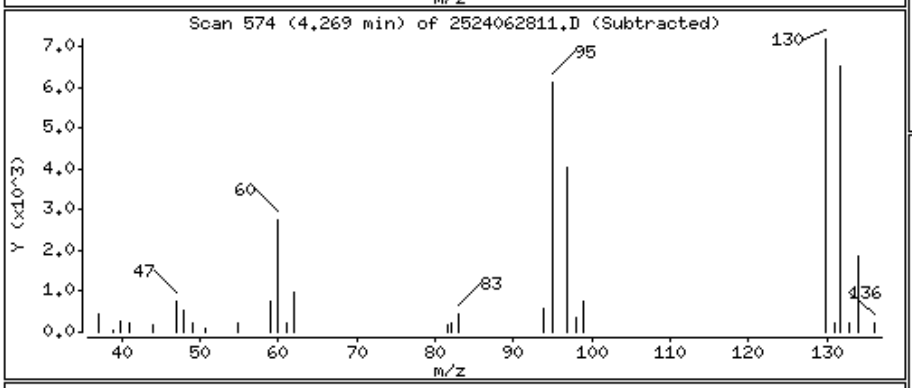
Sample Info: 3366026001;;1;;;;;

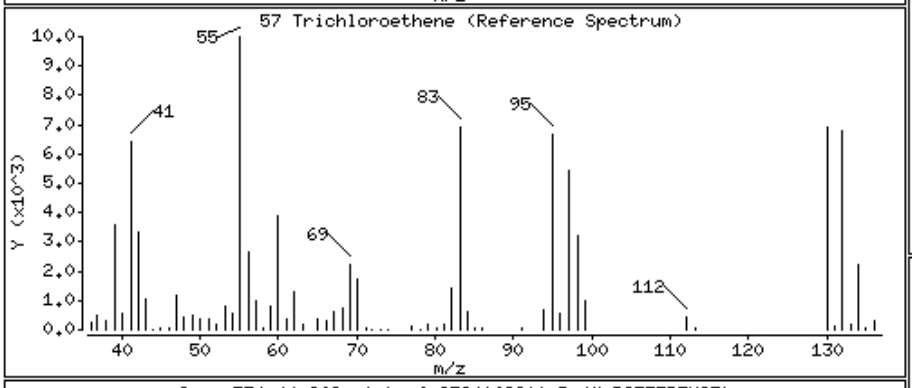
Purge Volume: 5.0 Operator: TMP

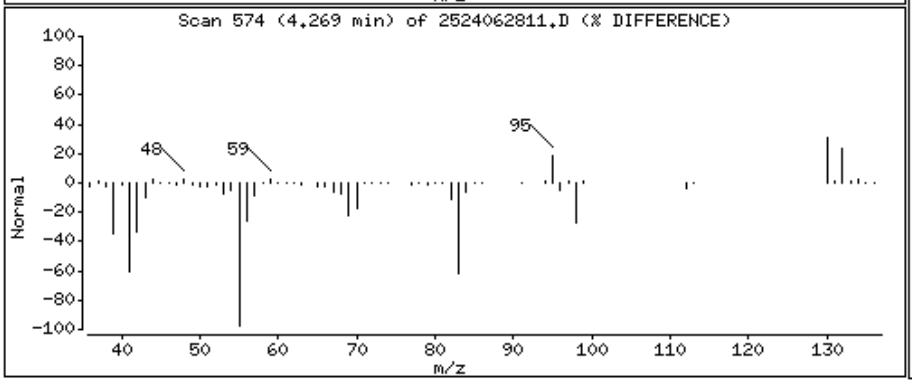
Column phase: DB-VRX Column diameter: 0.25

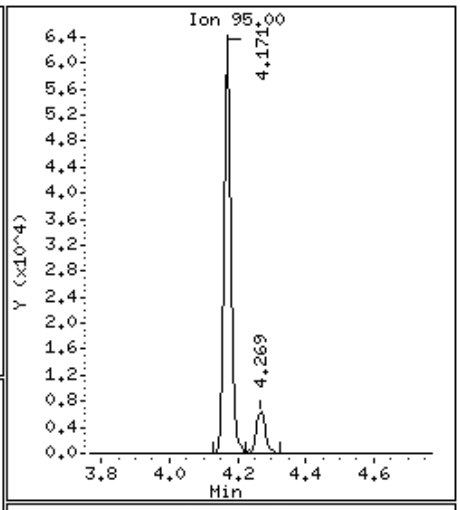
57 Trichloroethene Concentration: 1.35181 ug/L

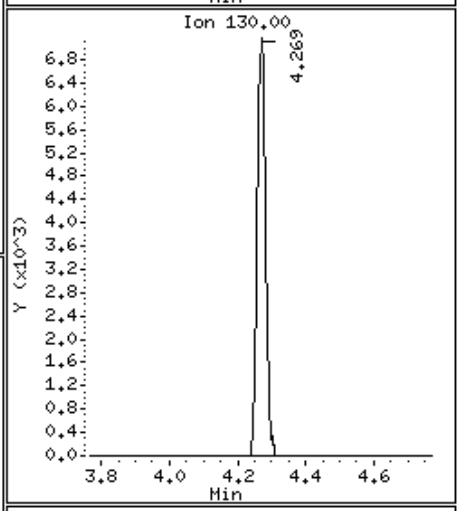


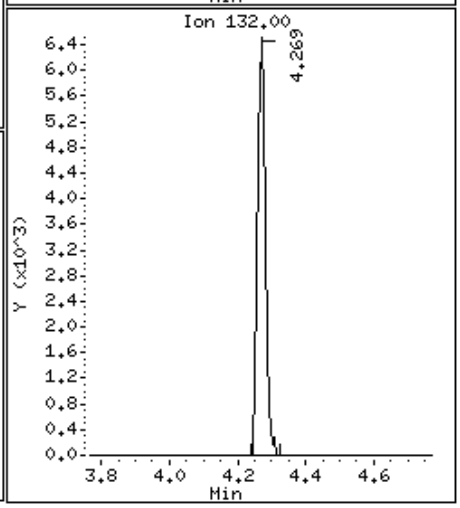












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062811.D
Inj Date : 28-JUN-2024 13:27
InstruID : ms25.i
LabSampID : 3366026001

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:05
Client ID: ICT2_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406281
Inj Date: 28-JUN-2024 13:27
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone	Acetonitrile
Chloroethane	3-Chloro-1-propene
trans-1,3-Dichloropropene	Ethyl methacrylate
Heptane	2-Hexanone
Methacrylonitrile	2-Nitropropane

Data File: 2524062812.D Page 1
Report Date: 30-Jun-2024 15:06

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D
Lab Smp Id: 3366026002 Client Smp ID: ICT4_062024
Inj Date : 28-JUN-2024 13:47
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026002;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	36450	2.94407	2.94407	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	2940577	439.071	439.071(A)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	35849	3.84397	3.84397	
21 Hexane	57	Compound Not Detected.						

Data File: 2524062812.D
Report Date: 30-Jun-2024 15:06

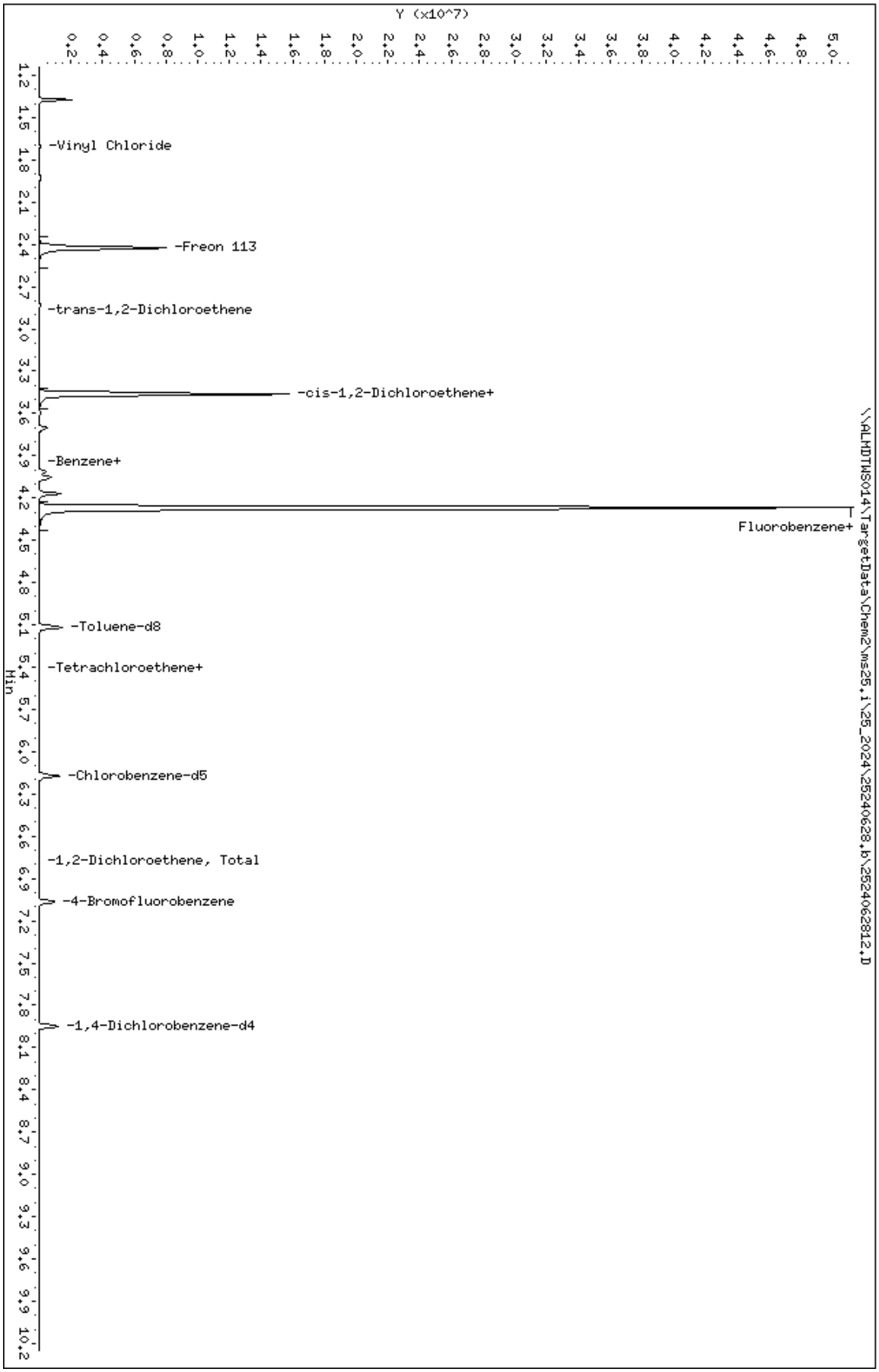
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	6551517	692.833	692.833(A)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				6587366	696.677	696.677	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	26473	3.01820	3.01820	
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	212769	27.2439	27.2439	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	3.941	3.941	(0.945)	18509	0.59631	0.596305(a)	
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	273102	33.1729	33.1729	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	487418	49.9531	49.9531	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	989792	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	12345672	1571.56	1571.56(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	839207	29.6584	29.6584	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	3079	0.47148	0.471476(a)	
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524062812.D Page 3
Report Date: 30-Jun-2024 15:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	1995	0.36205	0.362052(a)	
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	357393	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	249572	30.0965	30.0965	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	299745	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



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Date : 28-JUN-2024 13:47
Client ID: ICT4_062024
Sample Info: 33660260002;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 2

Date : 28-JUN-2024 13:47

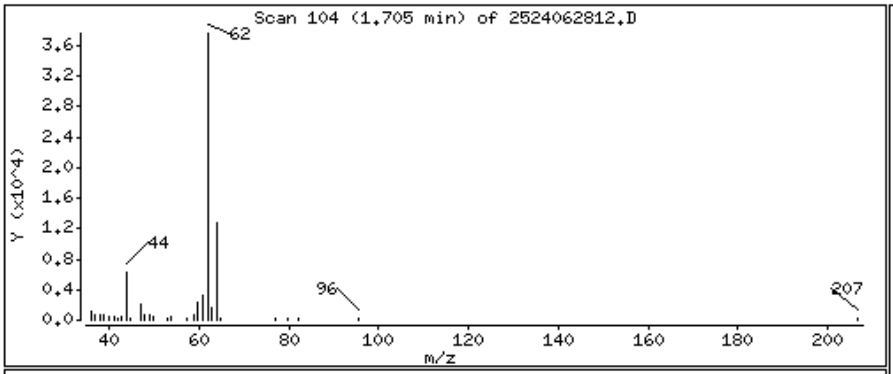
Client ID: ICT4_062024 Instrument: ms25.i

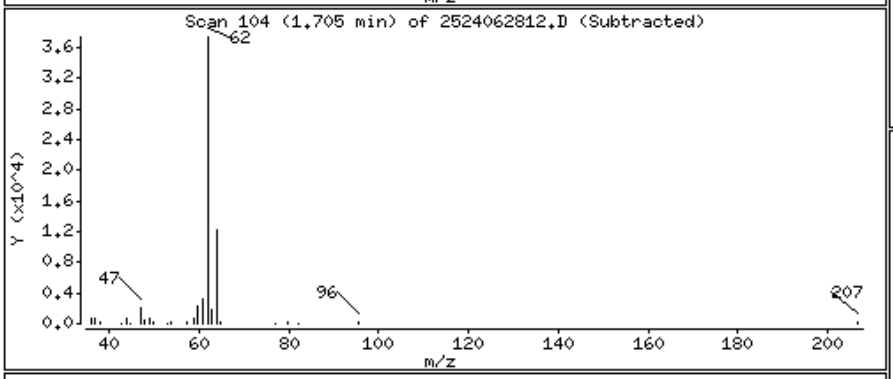
Sample Info: 3366026002;;1;;;;;

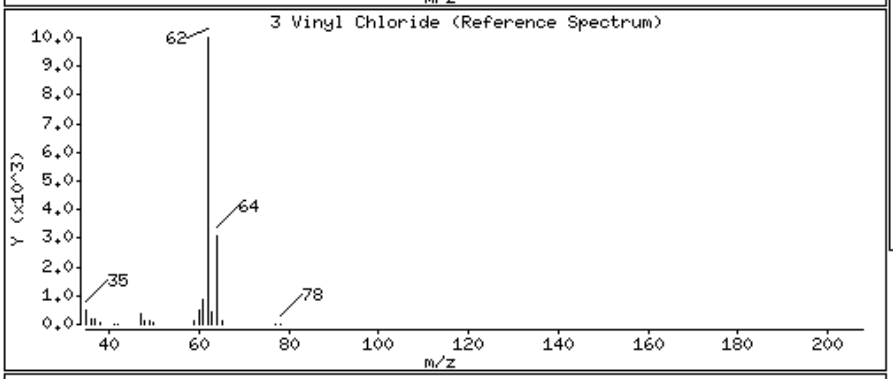
Purge Volume: 5.0 Operator: TMP

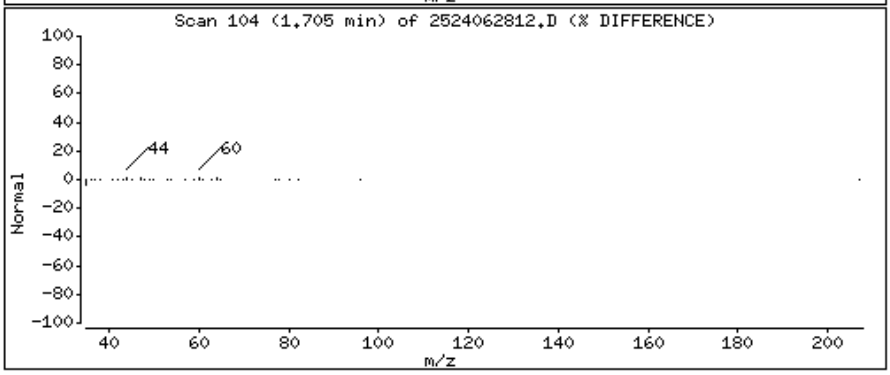
Column phase: DB-VRX Column diameter: 0.25

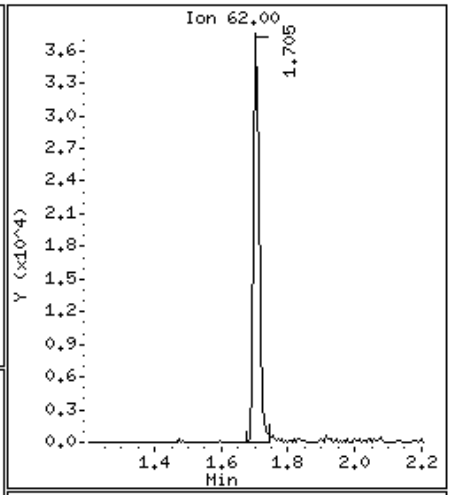
3 Vinyl Chloride Concentration: 2.94407 ug/L

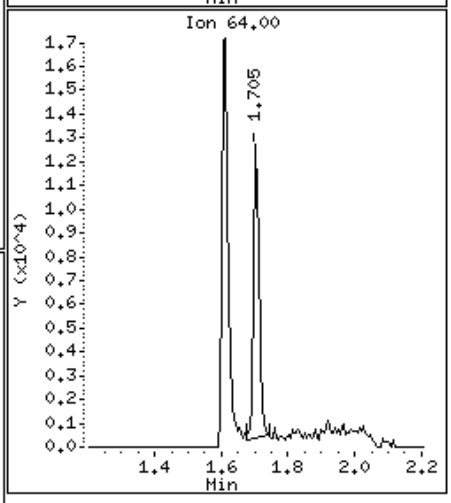












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 3

Date : 28-JUN-2024 13:47

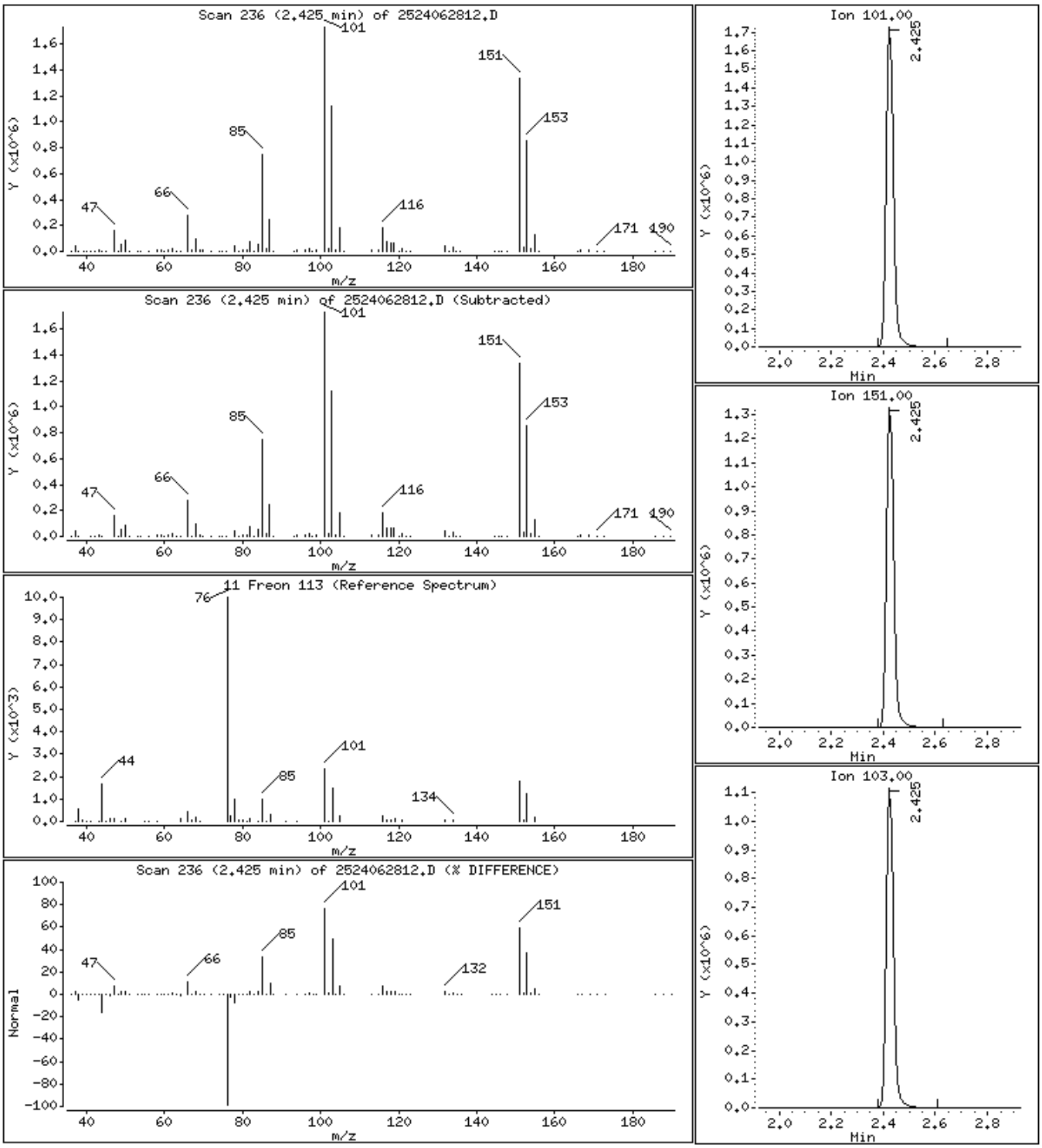
Client ID: ICT4_062024 Instrument: ms25.i

Sample Info: 3366026002;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 439.071 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 4

Date : 28-JUN-2024 13:47

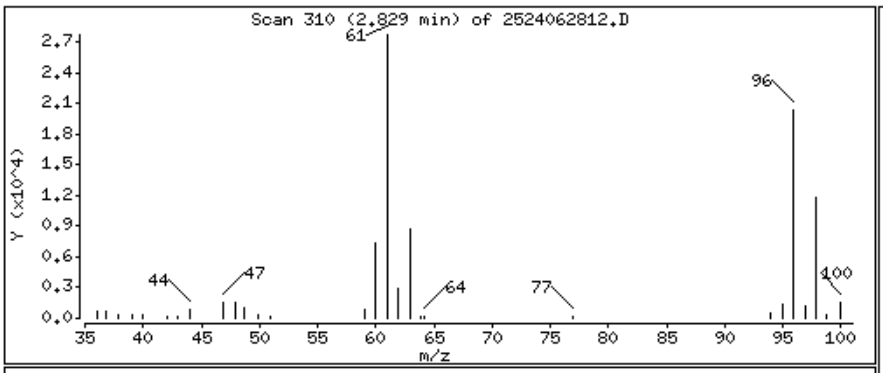
Client ID: ICT4_062024 Instrument: ms25.i

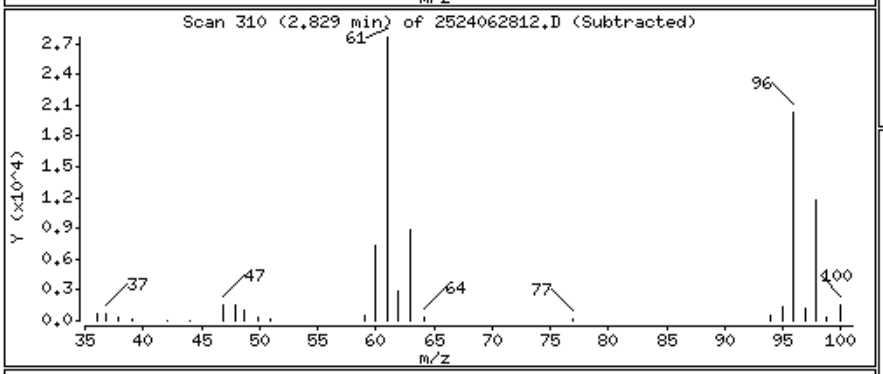
Sample Info: 3366026002;;1;;;;;

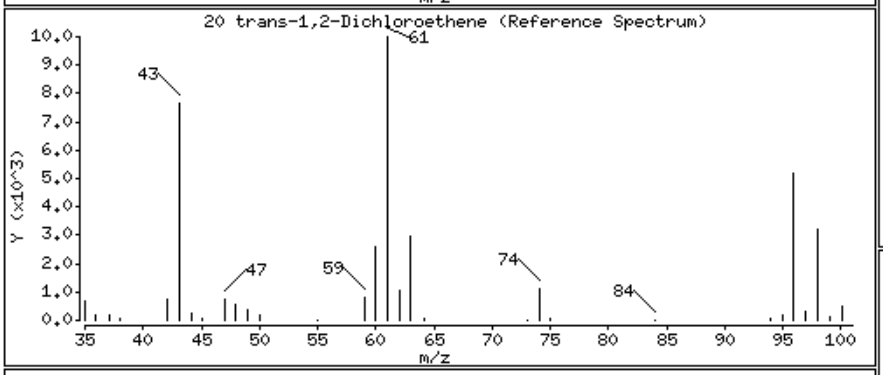
Purge Volume: 5.0 Operator: TMP

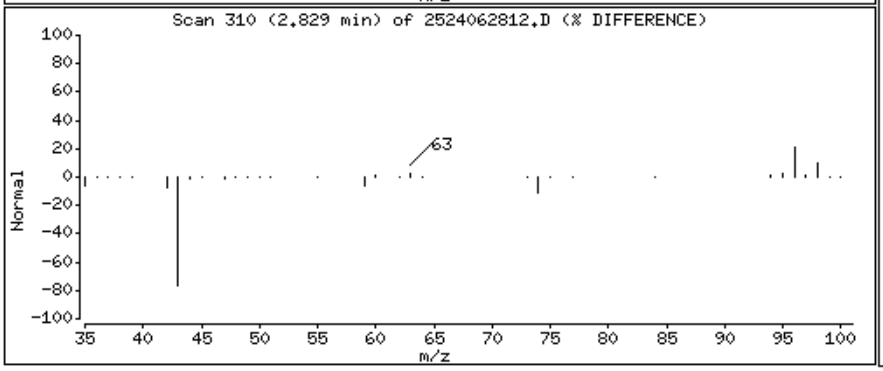
Column phase: DB-VRX Column diameter: 0.25

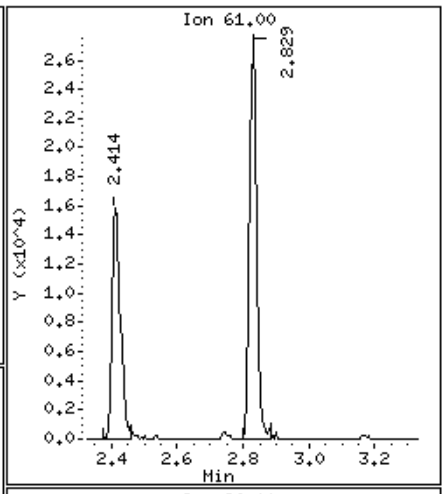
20 trans-1,2-Dichloroethene Concentration: 3.84397 ug/L

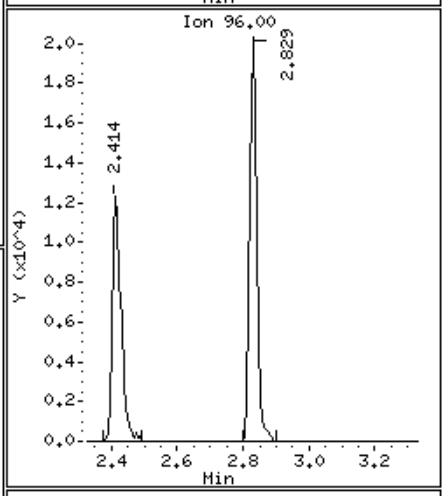


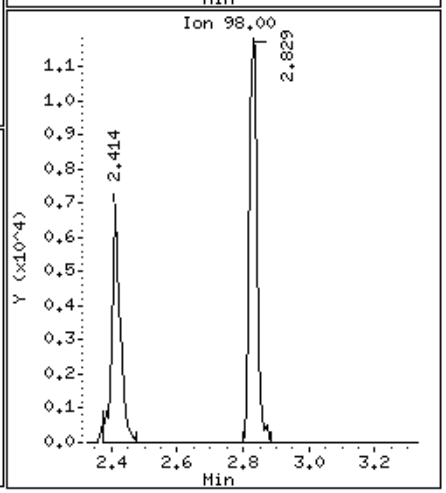












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 5

Date : 28-JUN-2024 13:47

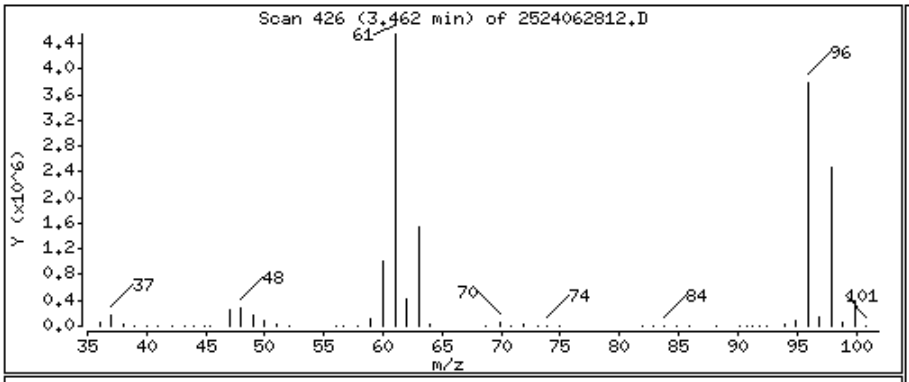
Client ID: ICT4_062024 Instrument: ms25.i

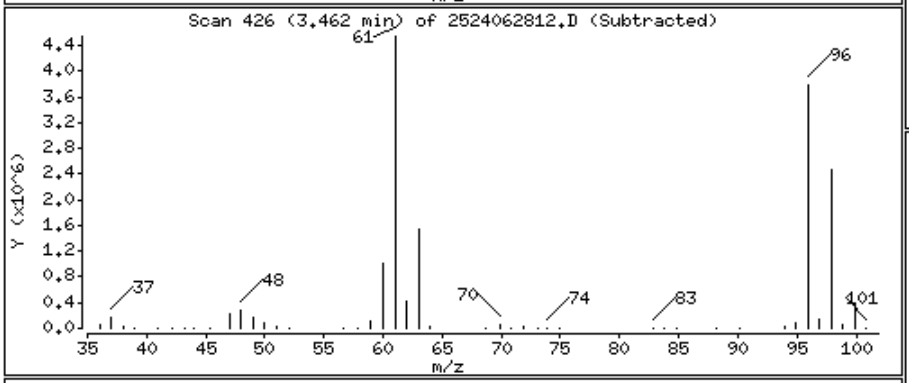
Sample Info: 3366026002;;1;;;;;

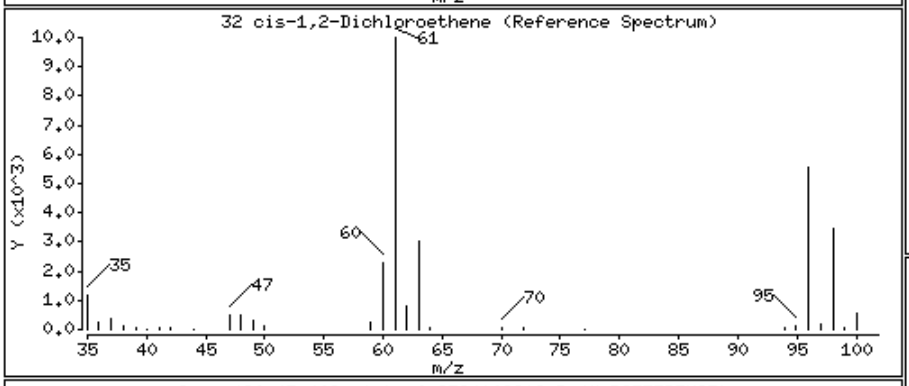
Purge Volume: 5.0 Operator: TMP

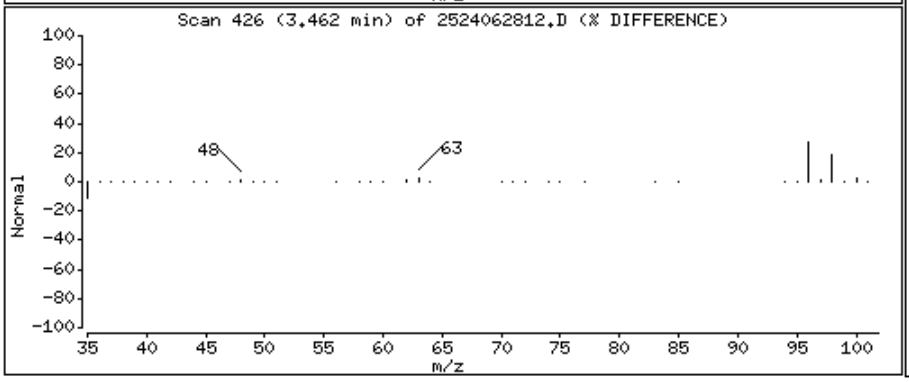
Column phase: DB-VRX Column diameter: 0.25

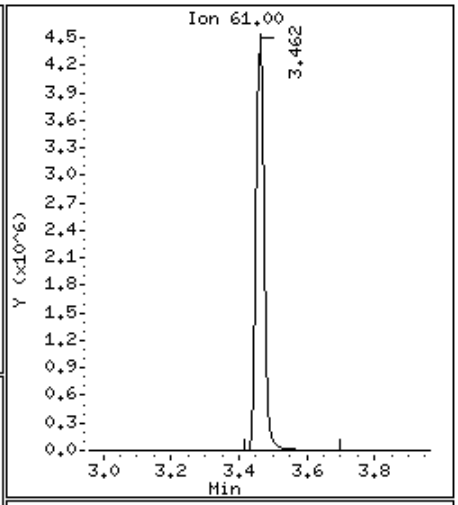
32 cis-1,2-Dichloroethene Concentration: 692.833 ug/L

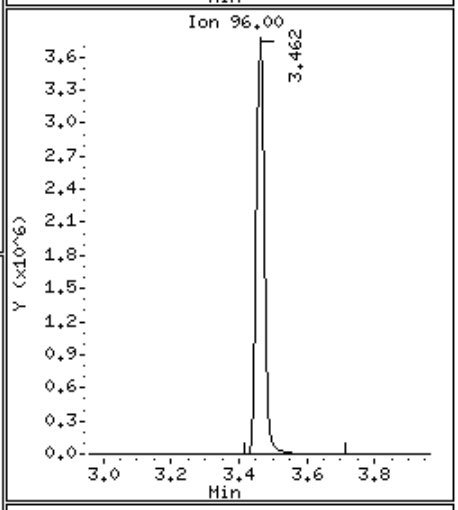


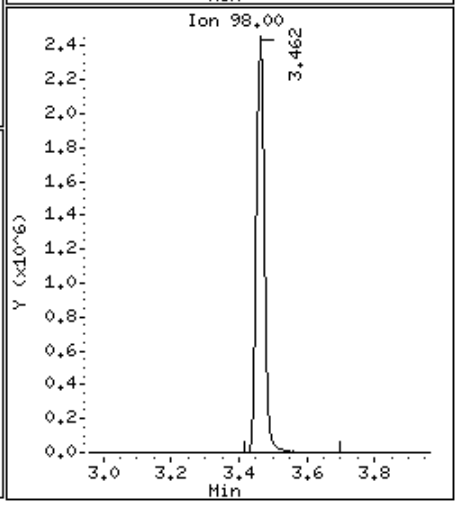












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 6

Date : 28-JUN-2024 13:47

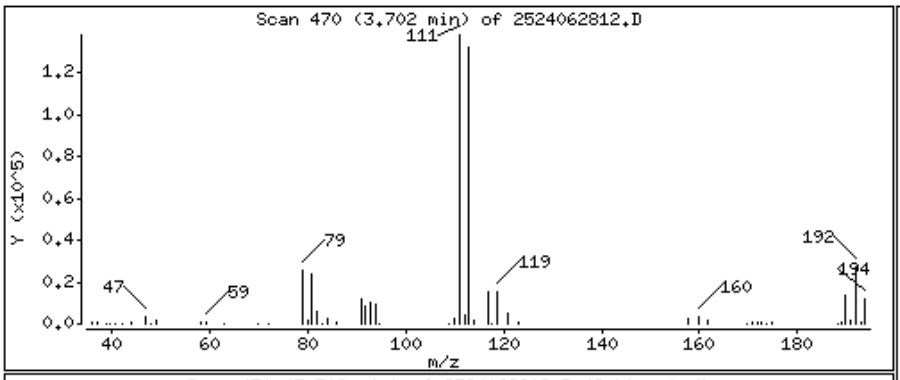
Client ID: ICT4_062024 Instrument: ms25.i

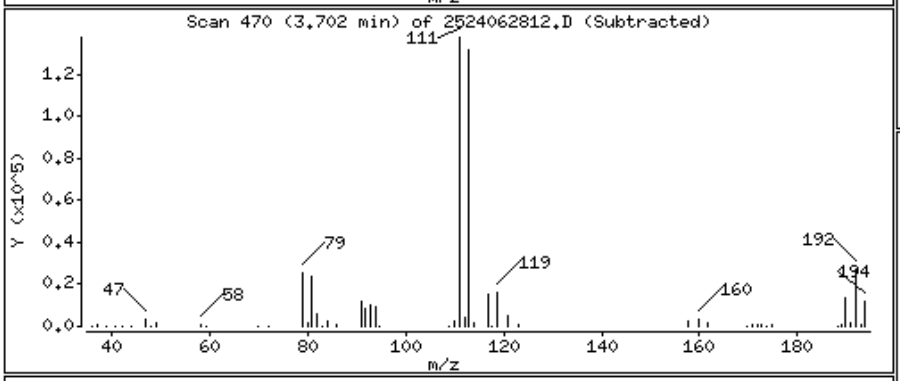
Sample Info: 3366026002;;1;;;;;

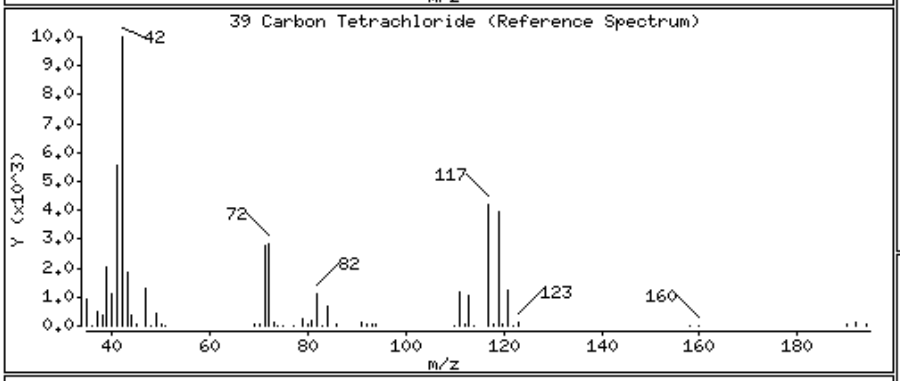
Purge Volume: 5.0 Operator: TMP

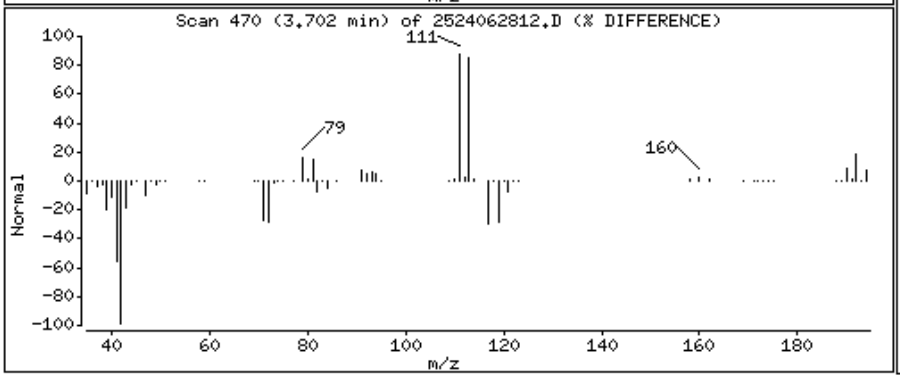
Column phase: DB-VRX Column diameter: 0.25

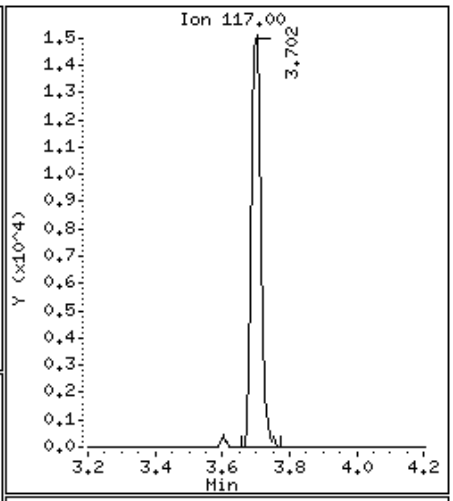
39 Carbon Tetrachloride Concentration: 3.01820 ug/L

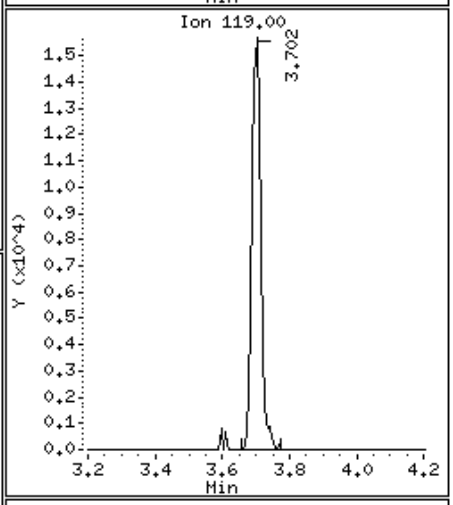


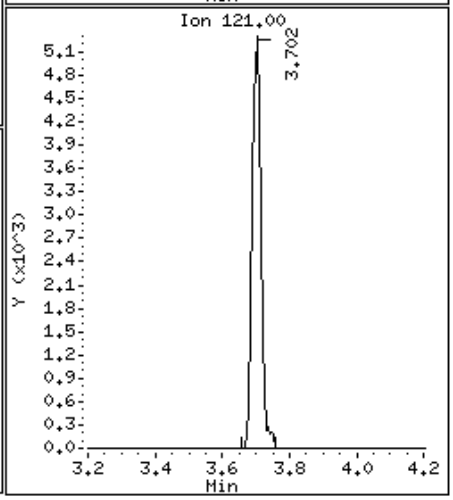












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 7

Date : 28-JUN-2024 13:47

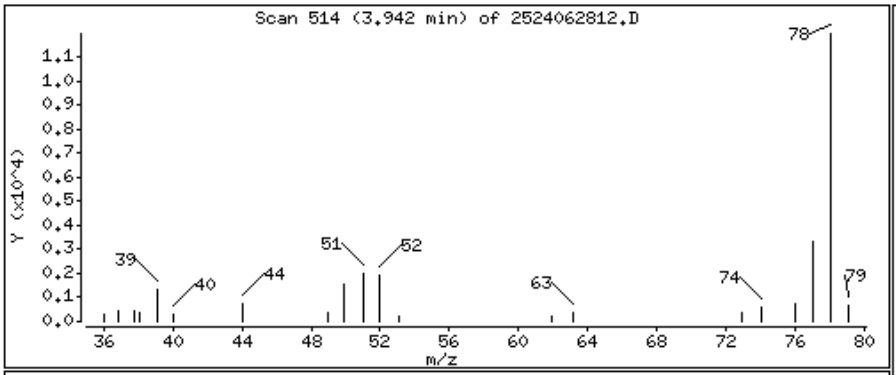
Client ID: ICT4_062024 Instrument: ms25.i

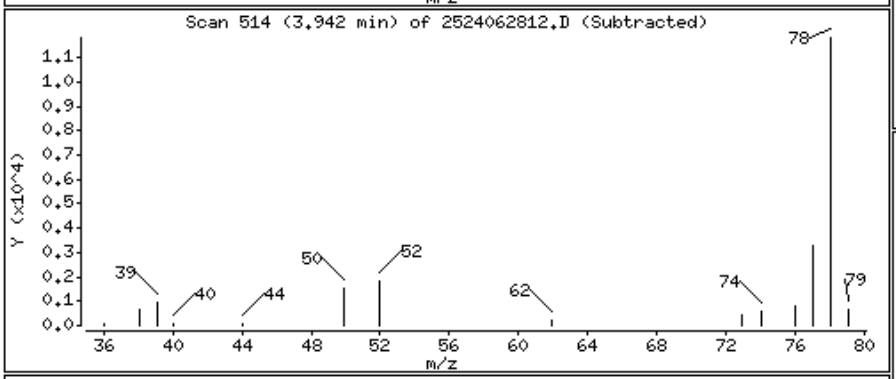
Sample Info: 3366026002;;1;;;;;

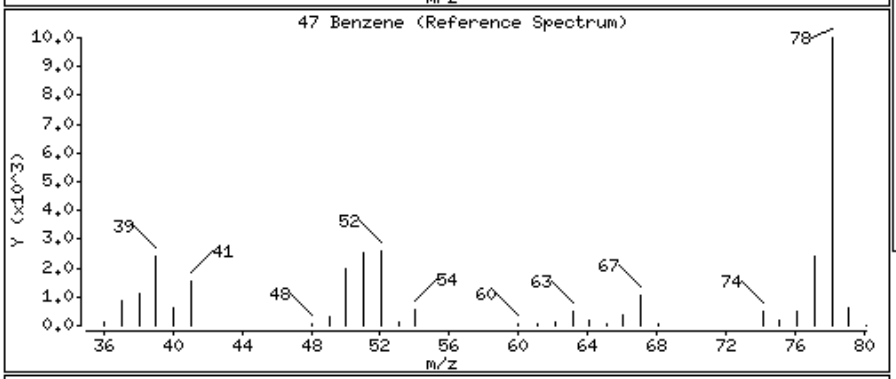
Purge Volume: 5.0 Operator: TMP

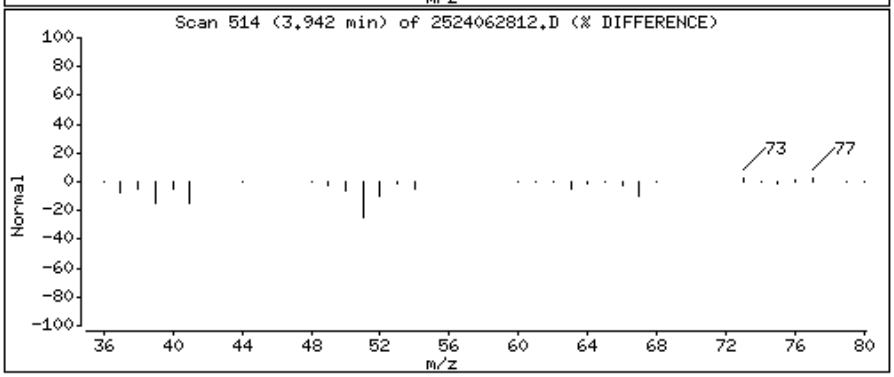
Column phase: DB-VRX Column diameter: 0.25

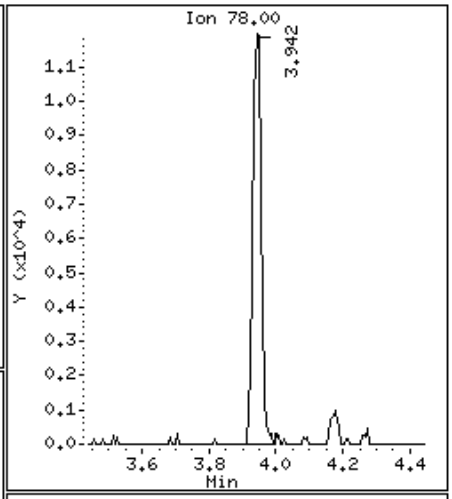
47 Benzene Concentration: 0.596305 ug/L

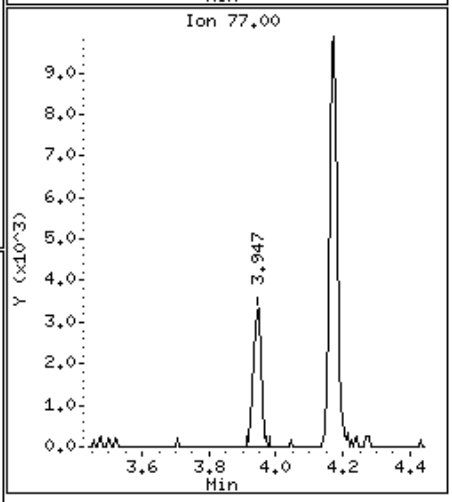












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 8

Date : 28-JUN-2024 13:47

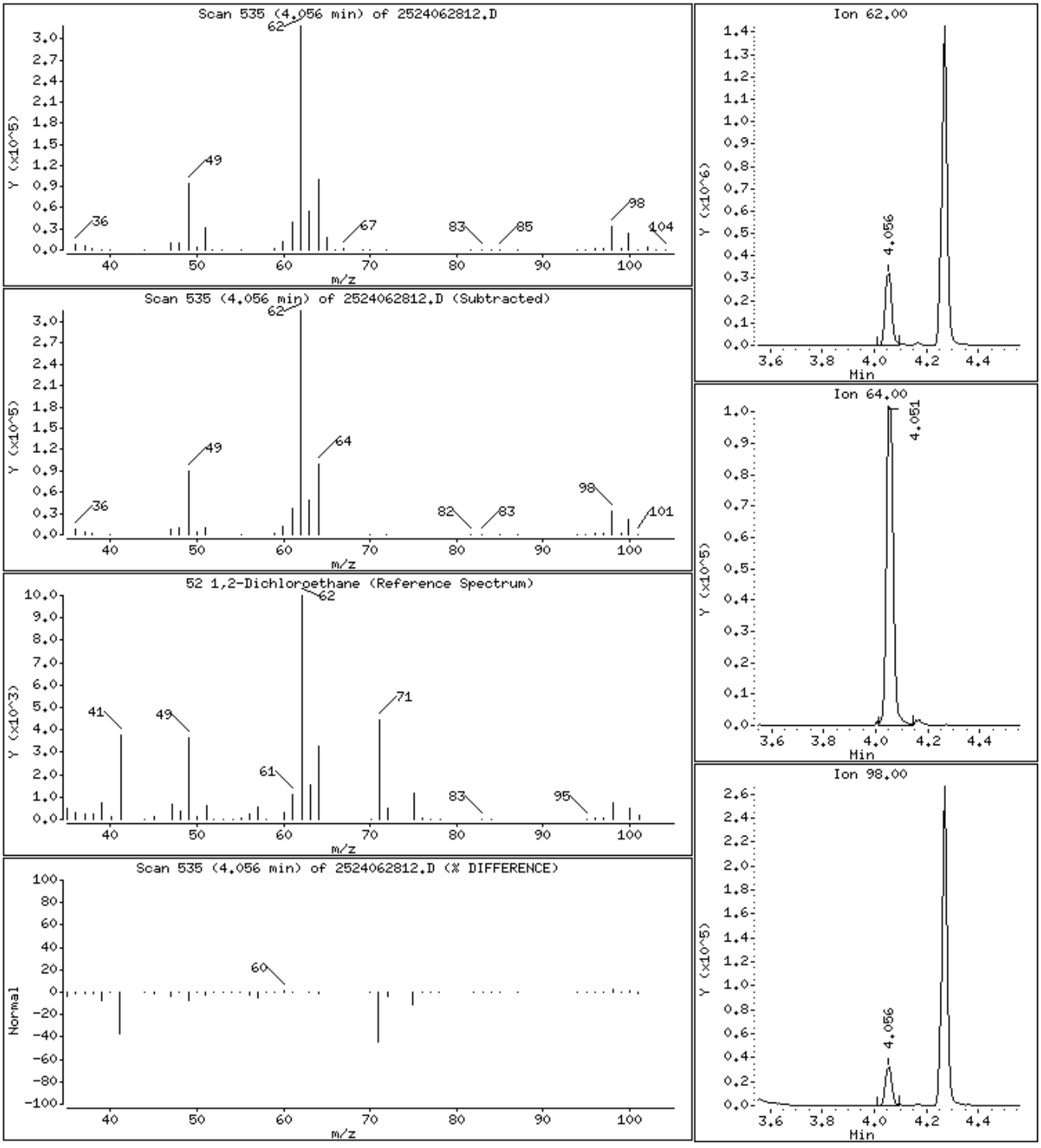
Client ID: ICT4_062024 Instrument: ms25.i

Sample Info: 3366026002;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

52 1,2-Dichloroethane Concentration: 49.9531 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 9

Date : 28-JUN-2024 13:47

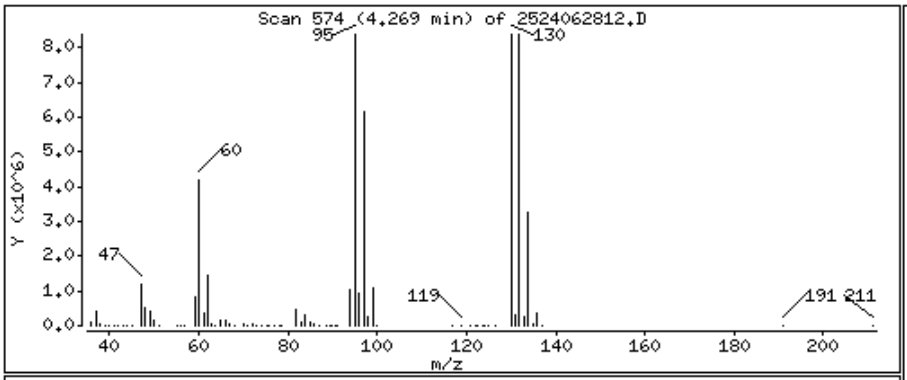
Client ID: ICT4_062024 Instrument: ms25.i

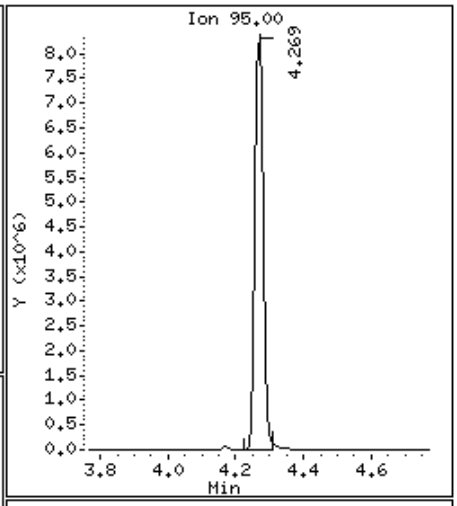
Sample Info: 3366026002;;1;;;;;

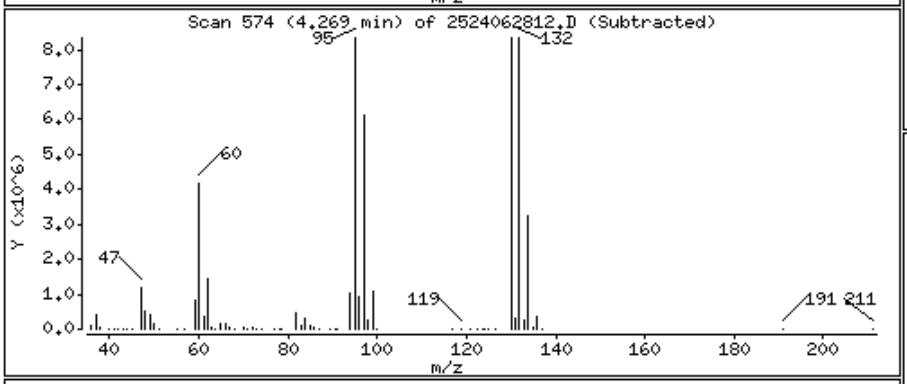
Purge Volume: 5.0 Operator: TMP

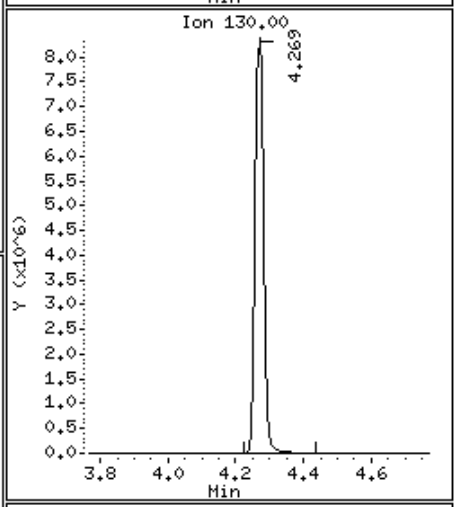
Column phase: DB-VRX Column diameter: 0.25

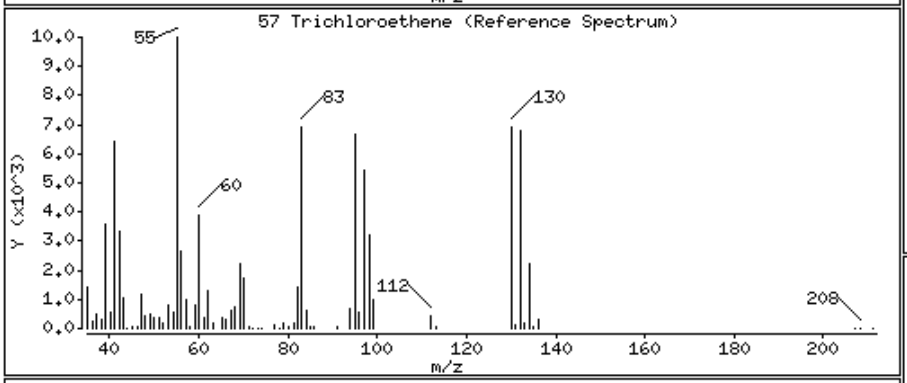
57 Trichloroethene Concentration: 1571.56 ug/L

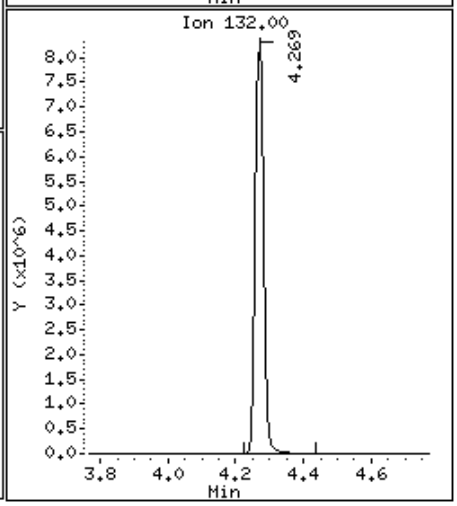


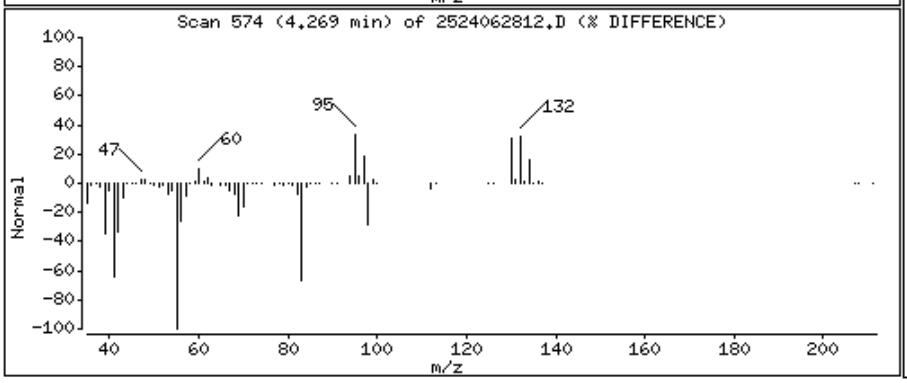












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 10

Date : 28-JUN-2024 13:47

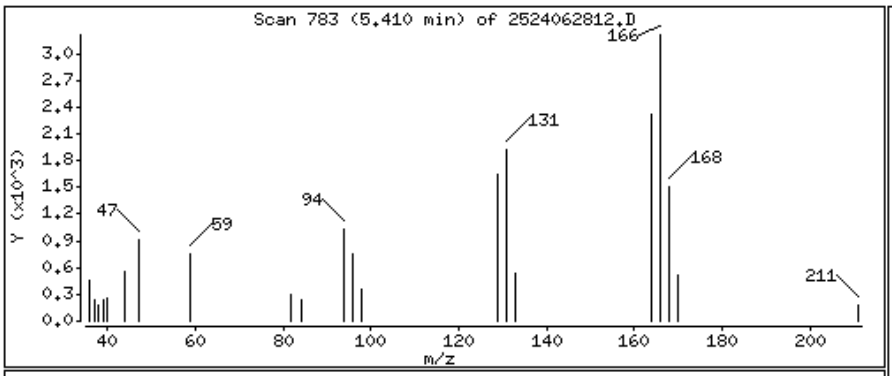
Client ID: ICT4_062024 Instrument: ms25.i

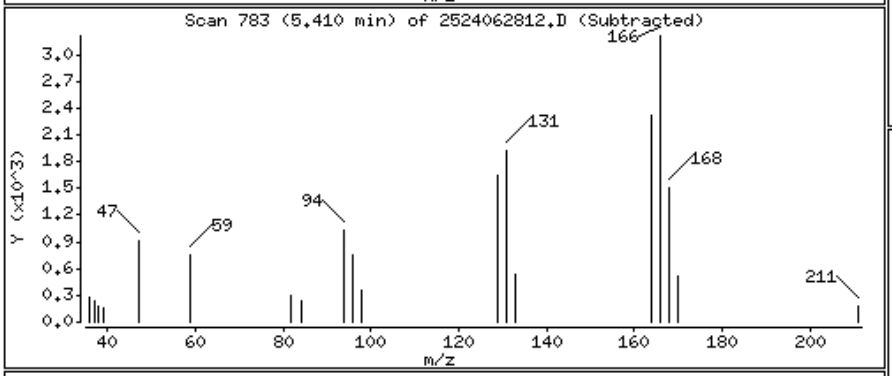
Sample Info: 3366026002;;1;;;;;

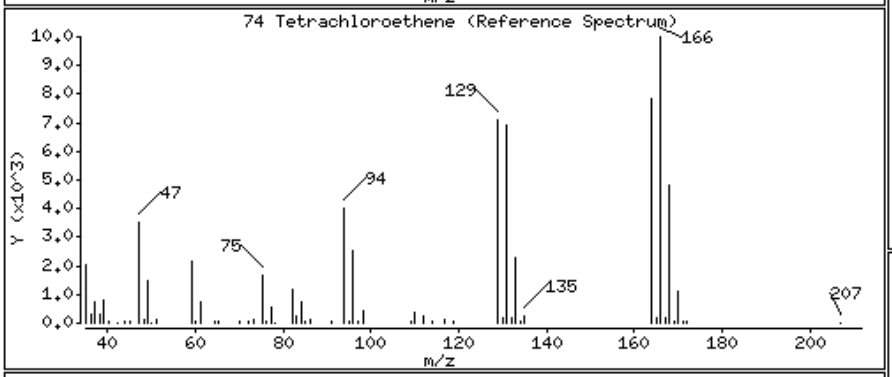
Purge Volume: 5.0 Operator: TMP

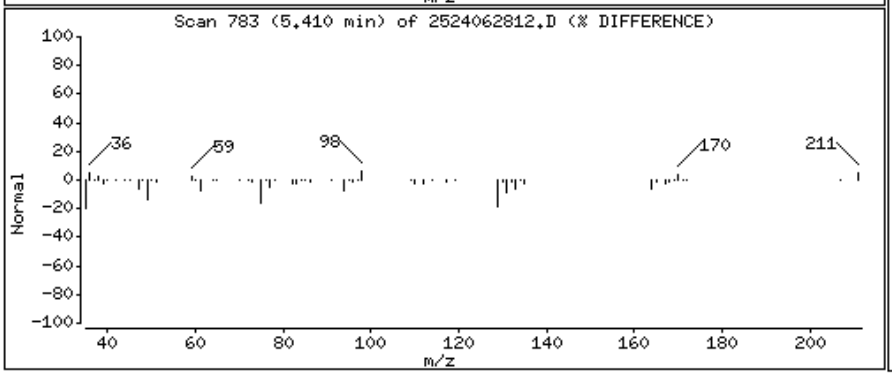
Column phase: DB-VRX Column diameter: 0.25

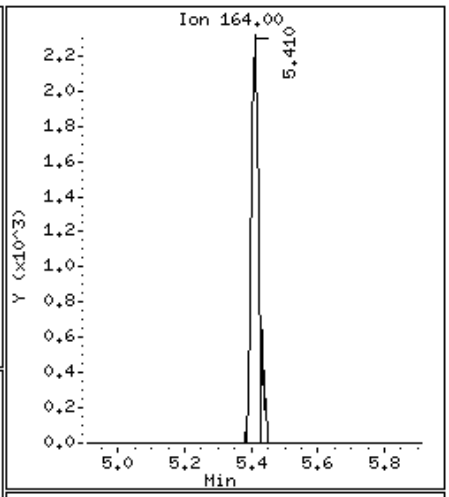
74 Tetrachloroethene Concentration: 0.471476 ug/L

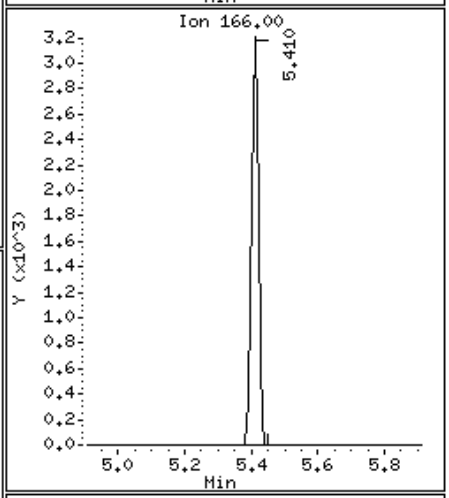


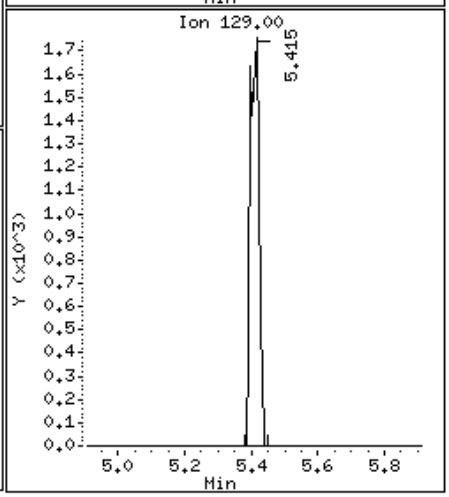












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062812.D Page 11

Date : 28-JUN-2024 13:47

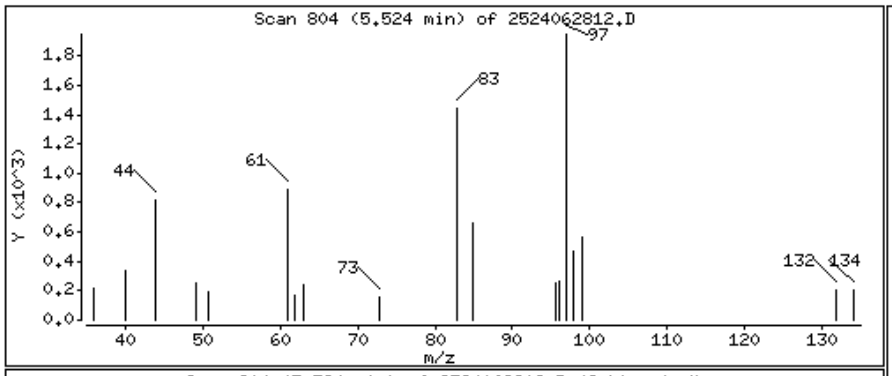
Client ID: ICT4_062024 Instrument: ms25.i

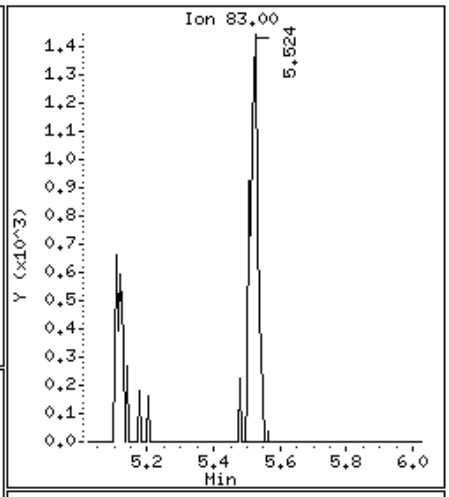
Sample Info: 3366026002;;1;;;;;

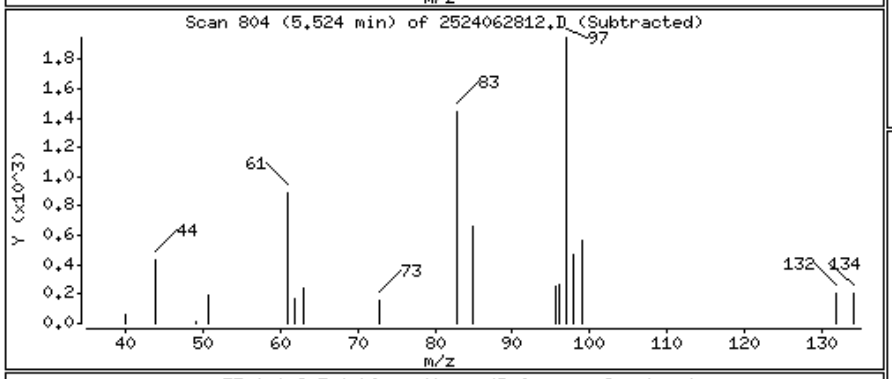
Purge Volume: 5.0 Operator: TMP

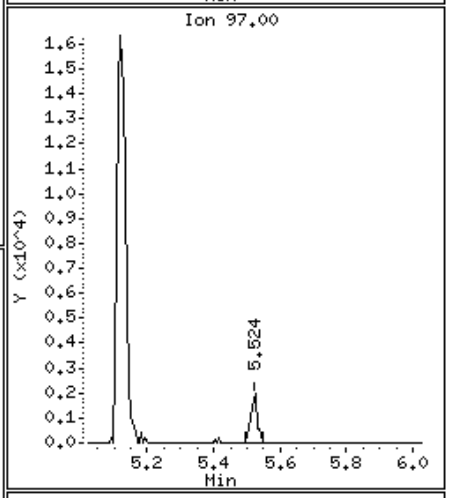
Column phase: DB-VRX Column diameter: 0.25

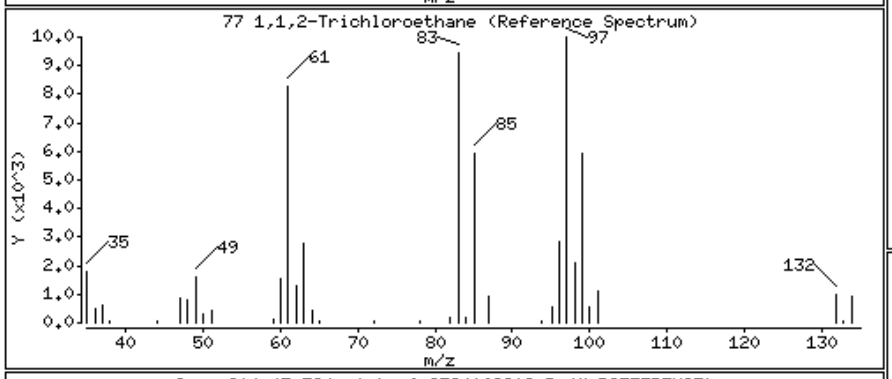
77 1,1,2-Trichloroethane Concentration: 0.362052 ug/L

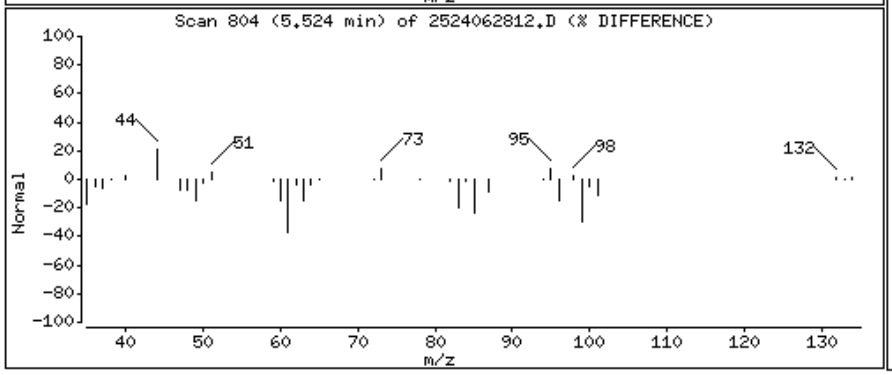


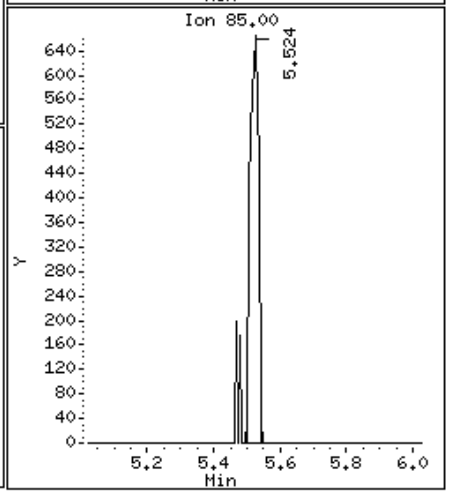












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Inj Date : 28-JUN-2024 13:47
InstruID : ms25.i
LabSampID : 3366026002

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:06
Client ID: ICT4_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406281
Inj Date: 28-JUN-2024 13:47
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
Acetonitrile
Acrolein
tert-amyl methyl Ether
tert-Amyl Alcohol
tert-Amyl Ethylether
Bromodichloromethane
2-Butanone
tert.- Butyl Alcohol
3-Chloro-1-propene
1,1-Dichloroethene
Dichlorofluoromethane
Ethyl Ether
Ethyl methacrylate
Heptane
Isobutyl alcohol
Methacrylonitrile
Methyl acetate
Methyl cyclohexane
Methylene Chloride
2-Nitropropane
1,1,1-Trichloroethane
Trichlorofluoromethane

Data File: 2524062814.D Page 1
Report Date: 30-Jun-2024 15:07

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D
Lab Smp Id: 3366026005 Client Smp ID: ICT11_062024
Inj Date : 28-JUN-2024 14:28
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026005;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	5581	0.46577	0.465770(a)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	6089	0.66074	0.660745(a)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	215252	33.2092	33.2092	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	3755	0.41603	0.416027(a)	
21 Hexane	57	Compound Not Detected.						

Data File: 2524062814.D Page 2
Report Date: 30-Jun-2024 15:07

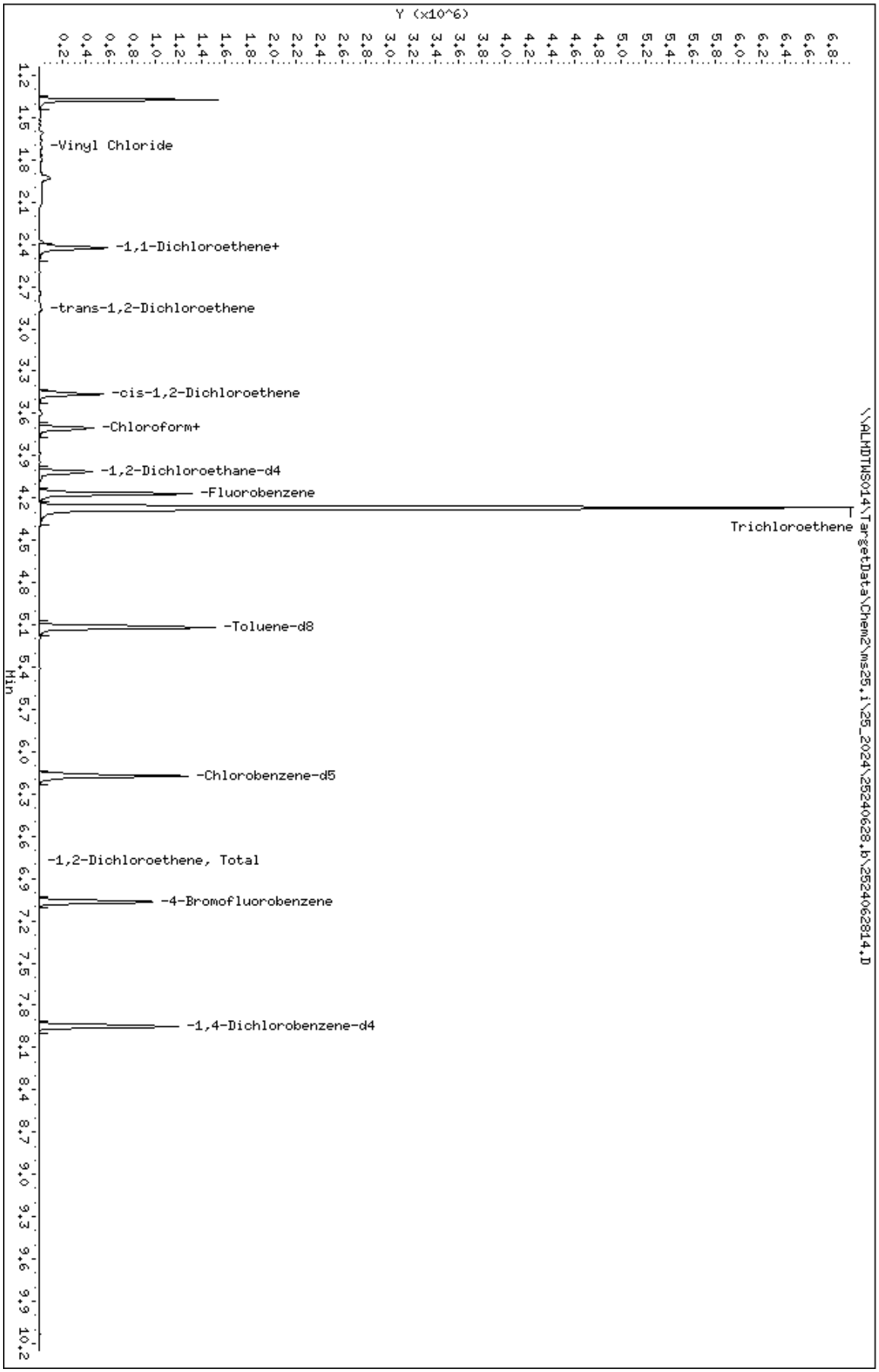
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	234027	25.5718	25.5718	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				237782	25.9878	25.9878	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.597	3.598	(0.863)	14098	1.06202	1.06202	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	3.696	3.701	(0.886)	2591	0.67911	0.679109(aQ)	
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	217998	28.8418	28.8418	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	255704	32.0926	32.0926	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	957933	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	1823894	239.896	239.896(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	864404	31.1504	31.1504	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062814.D Page 3
Report Date: 30-Jun-2024 15:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	350492	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	253773	32.2718	32.2718	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	284246	30.0000		
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



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Date : 28-JUN-2024 14:28
Client ID: ICT11_062024
Sample Info: 33660260005;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 2

Date : 28-JUN-2024 14:28

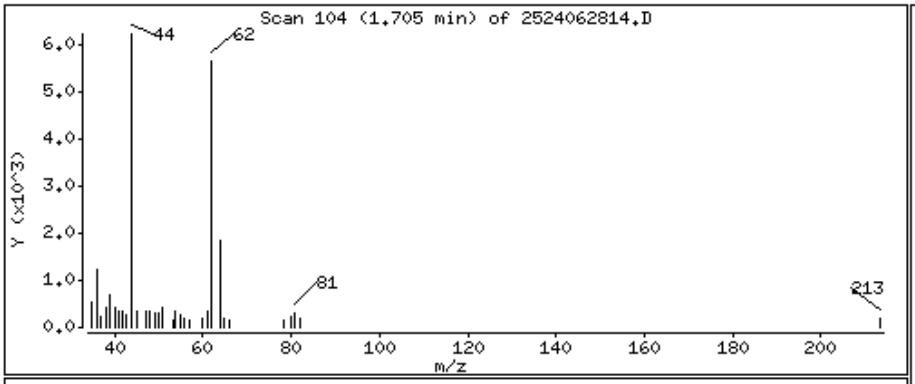
Client ID: ICT11_062024 Instrument: ms25.i

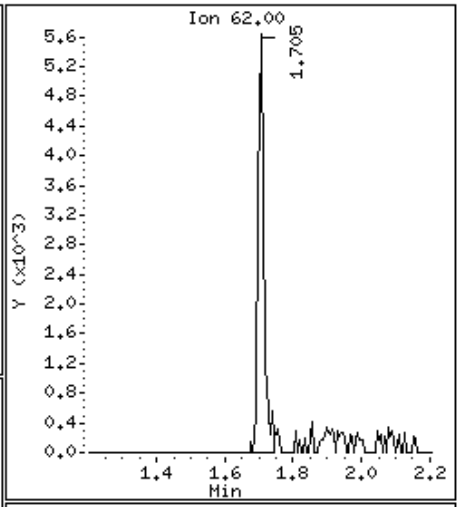
Sample Info: 3366026005;;1;;;;;

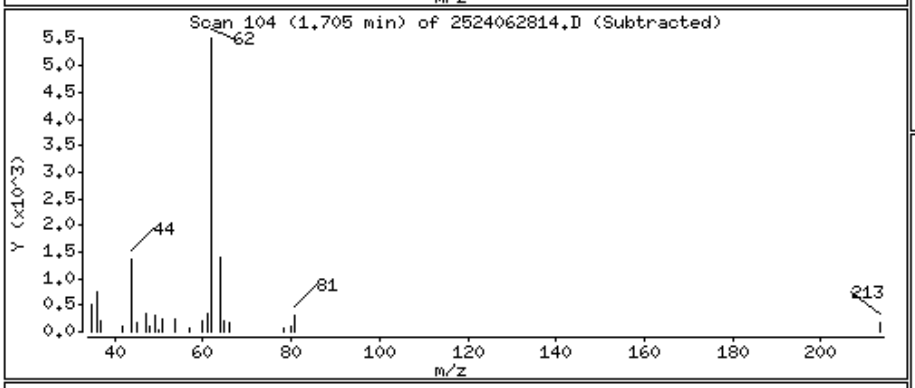
Purge Volume: 5.0 Operator: TMP

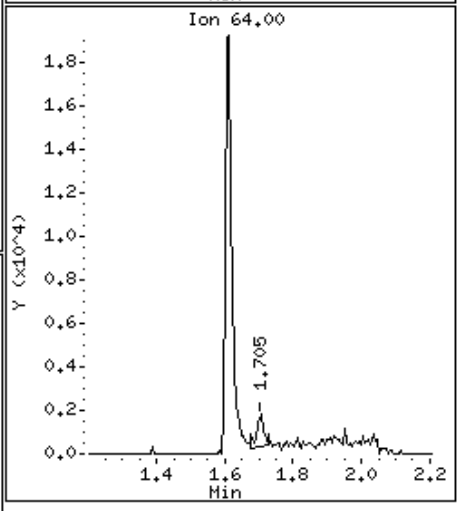
Column phase: DB-VRX Column diameter: 0.25

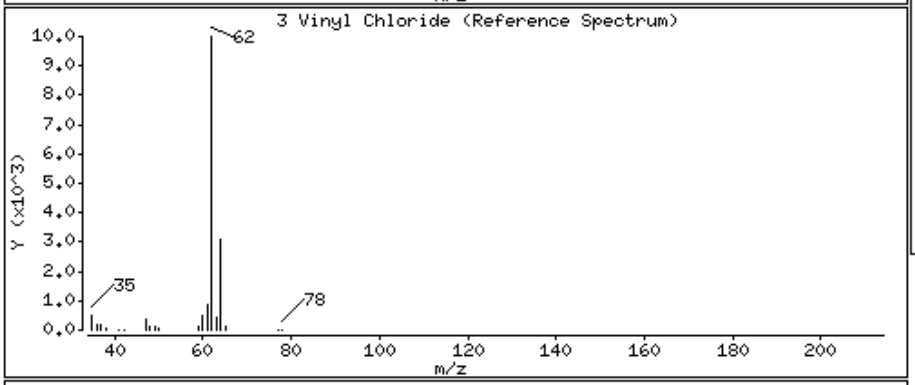
3 Vinyl Chloride Concentration: 0.465770 ug/L

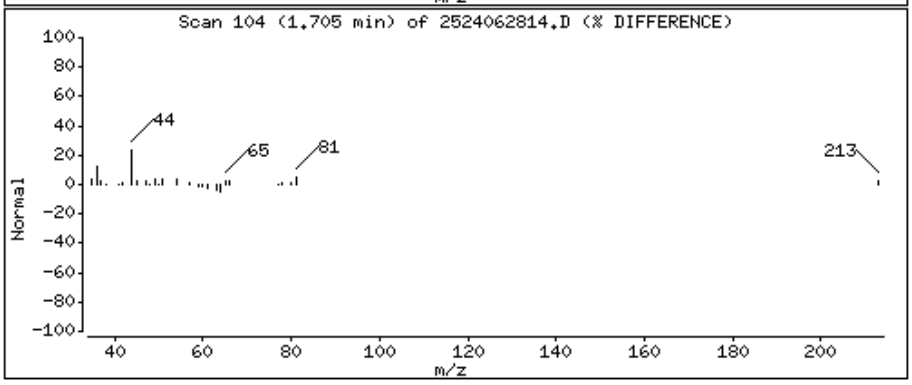












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 3

Date : 28-JUN-2024 14:28

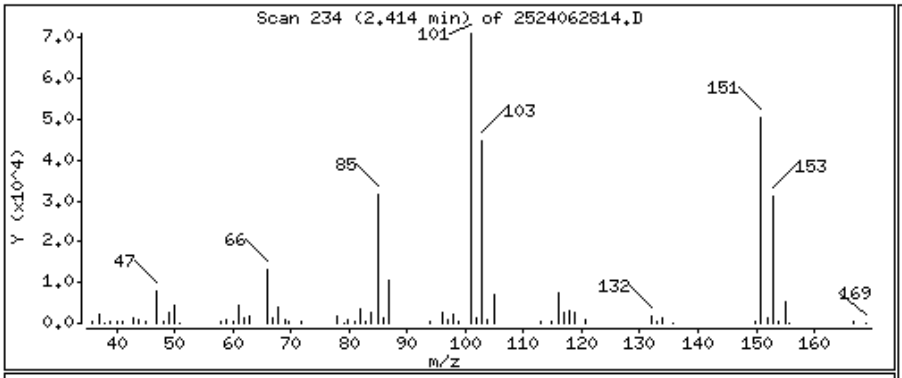
Client ID: ICT11_062024 Instrument: ms25.i

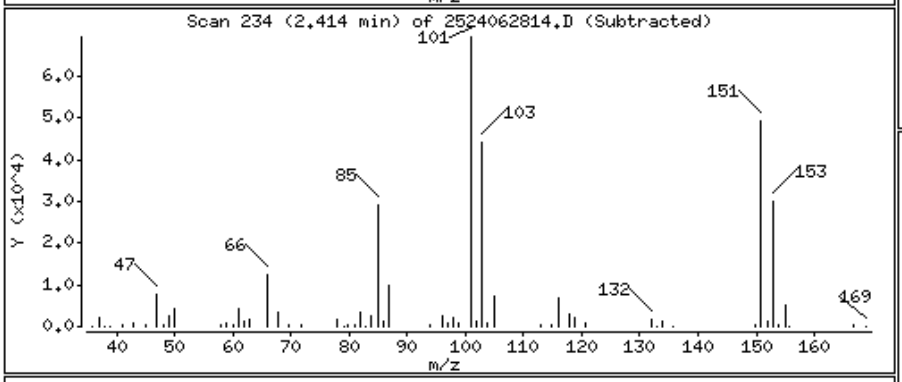
Sample Info: 3366026005;;1;;;;;

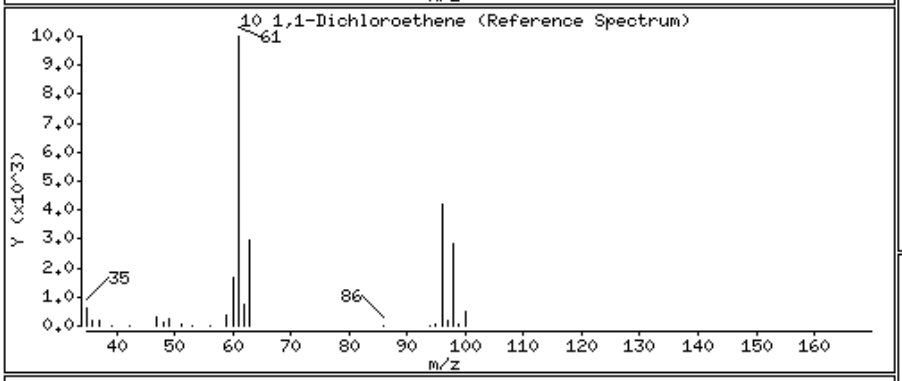
Purge Volume: 5.0 Operator: TMP

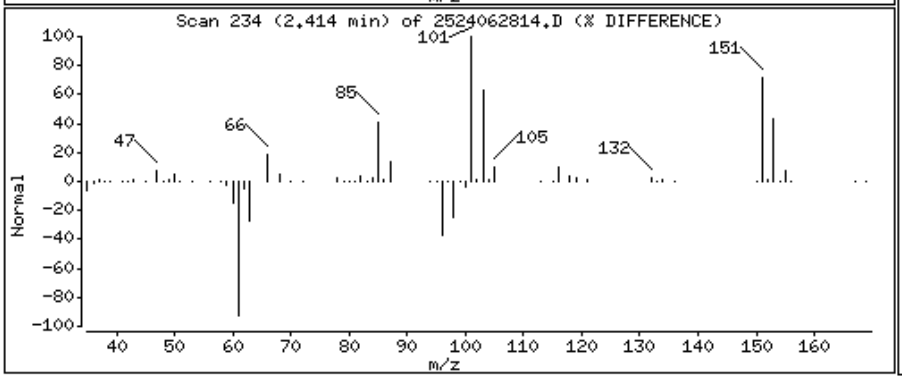
Column phase: DB-VRX Column diameter: 0.25

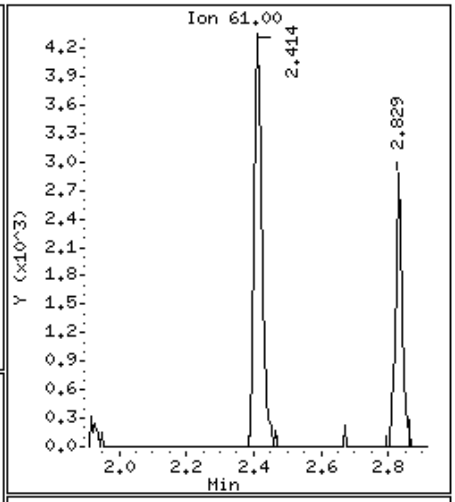
10 1,1-Dichloroethene Concentration: 0.660745 ug/L

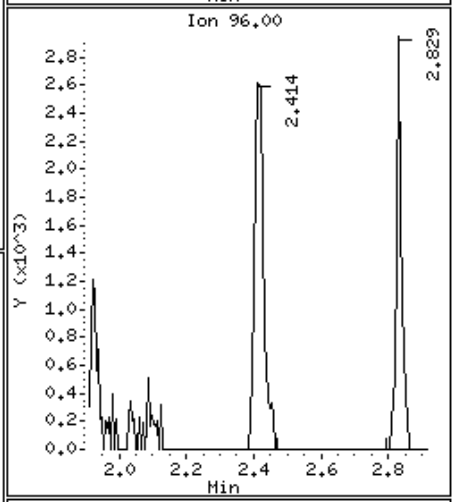


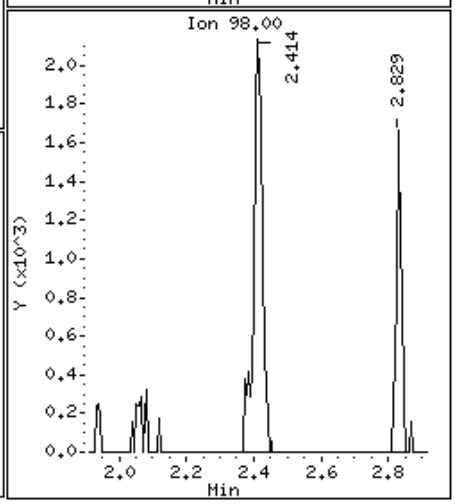












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 4

Date : 28-JUN-2024 14:28

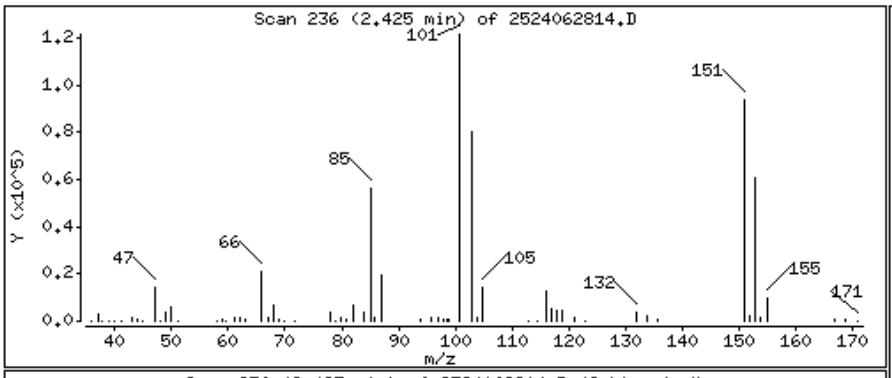
Client ID: ICT11_062024 Instrument: ms25.i

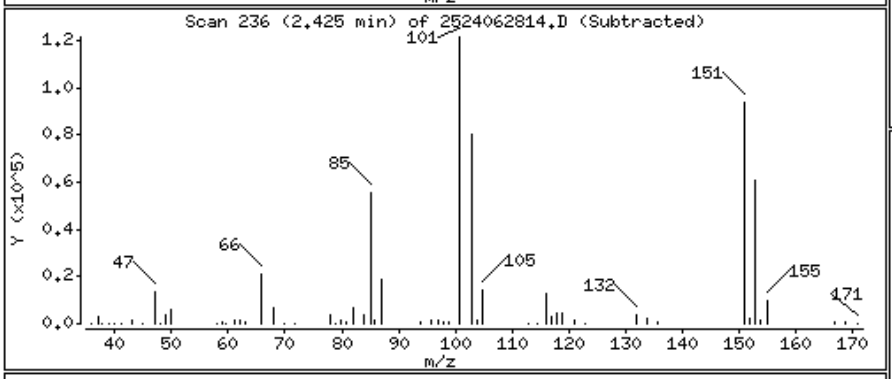
Sample Info: 3366026005;;1;;;;;

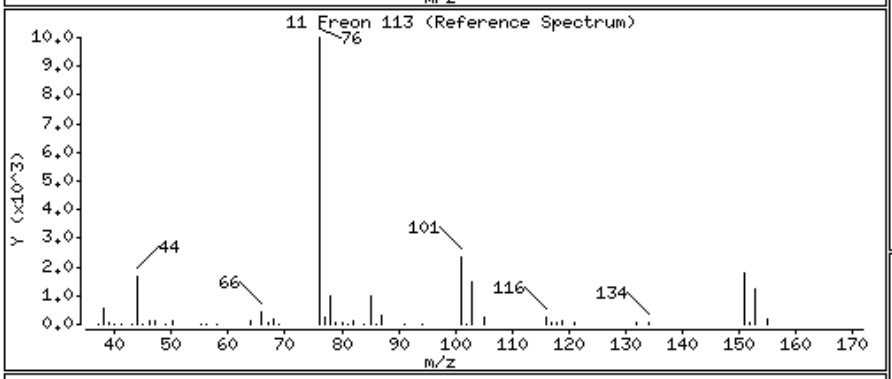
Purge Volume: 5.0 Operator: TMP

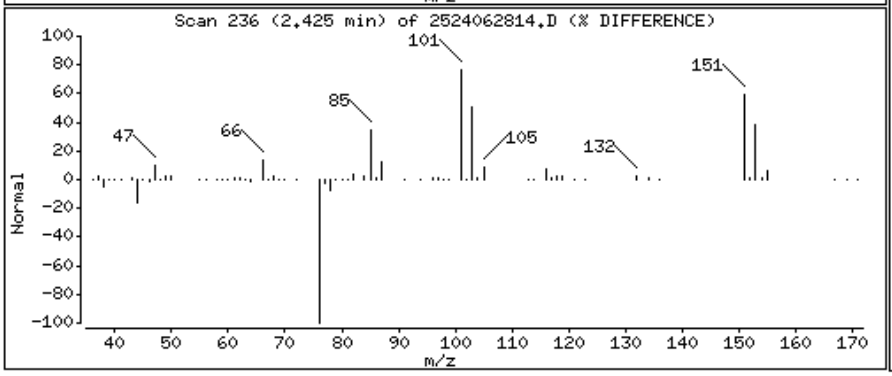
Column phase: DB-VRX Column diameter: 0.25

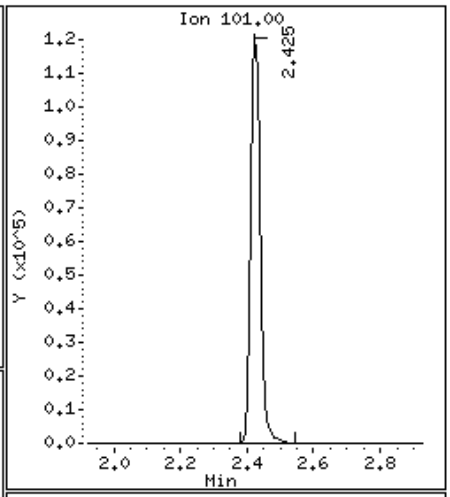
11 Freon 113 Concentration: 33.2092 ug/L

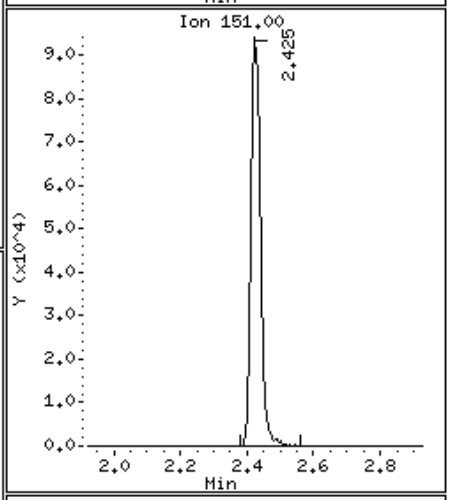


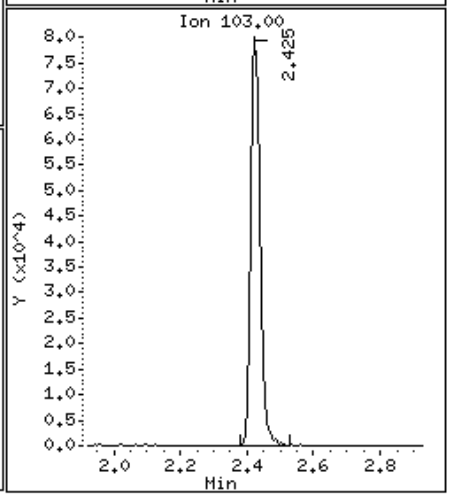












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 5

Date : 28-JUN-2024 14:28

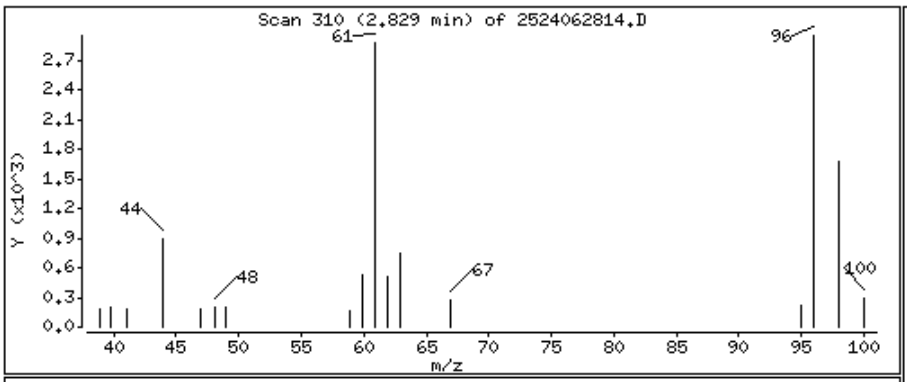
Client ID: ICT11_062024 Instrument: ms25.i

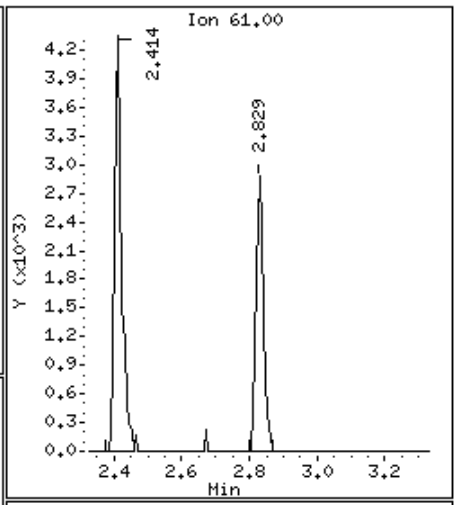
Sample Info: 3366026005;;1;;;;;

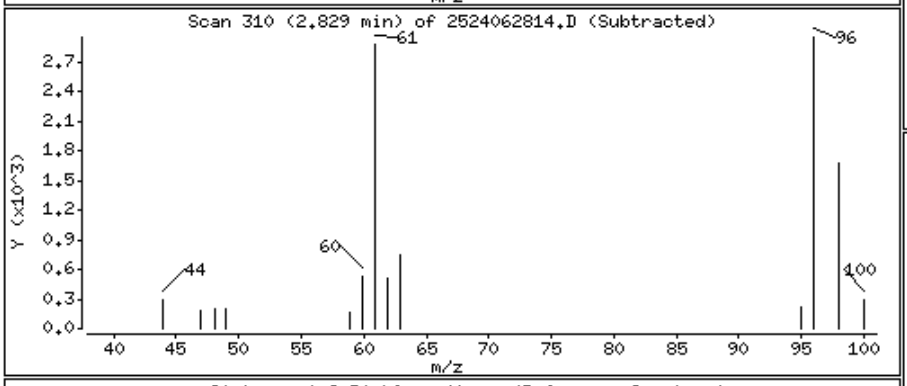
Purge Volume: 5.0 Operator: TMP

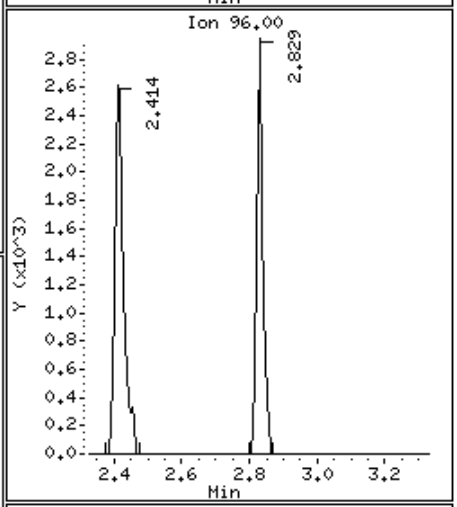
Column phase: DB-VRX Column diameter: 0.25

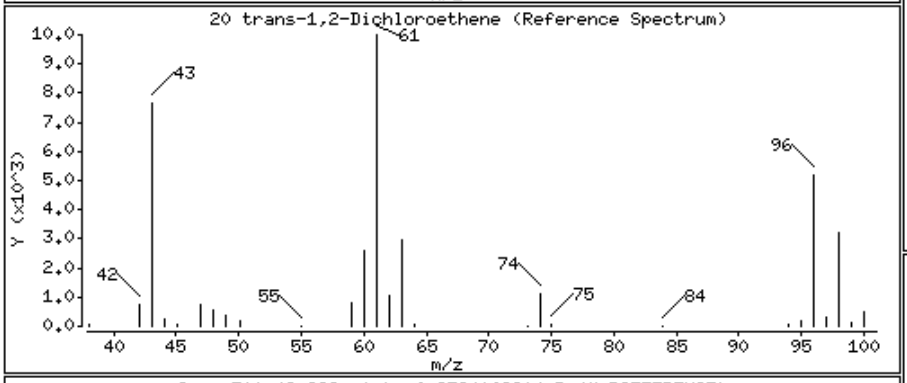
20 trans-1,2-Dichloroethene Concentration: 0.416027 ug/L

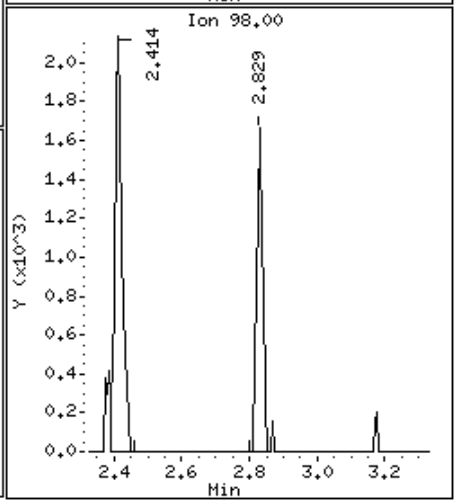


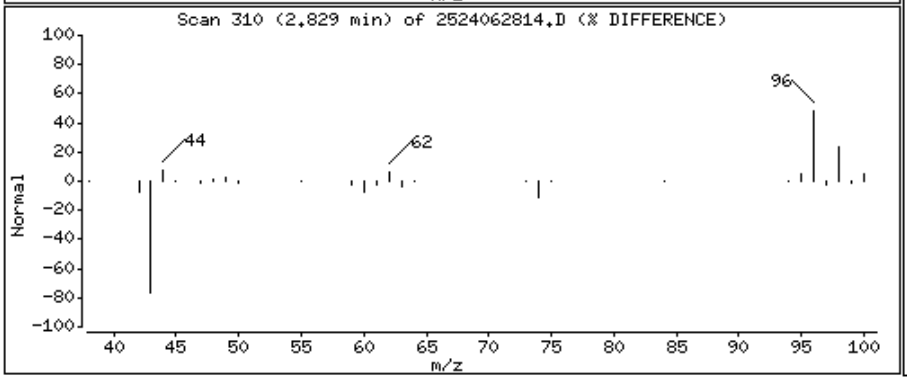












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 6

Date : 28-JUN-2024 14:28

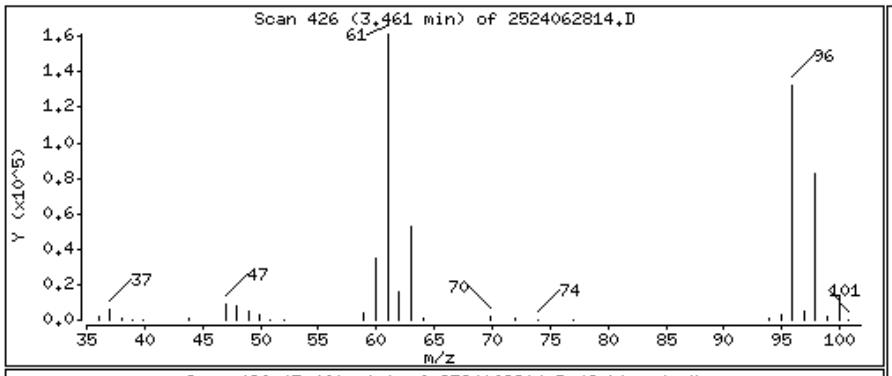
Client ID: ICT11_062024 Instrument: ms25.i

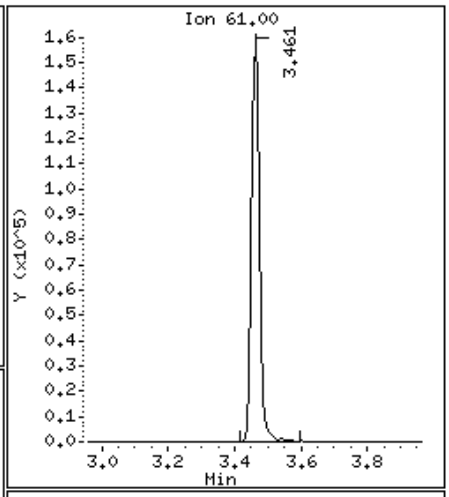
Sample Info: 3366026005;;1;;;;;

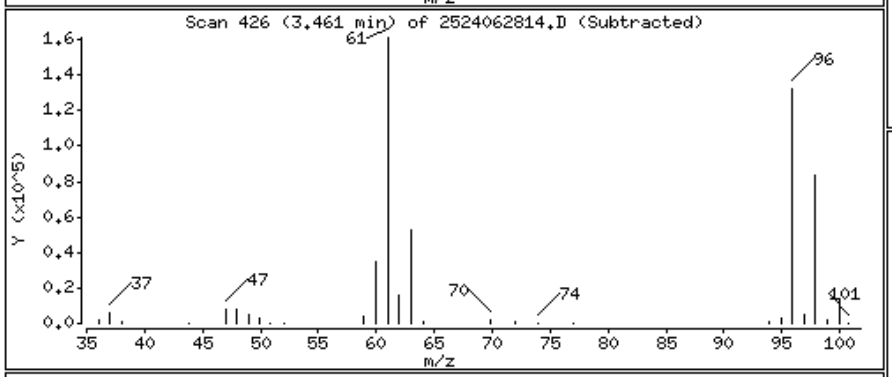
Purge Volume: 5.0 Operator: TMP

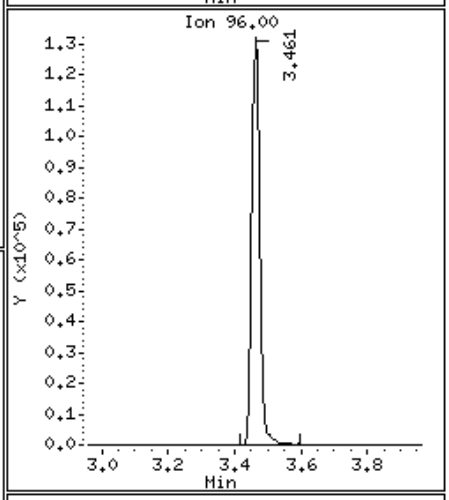
Column phase: DB-VRX Column diameter: 0.25

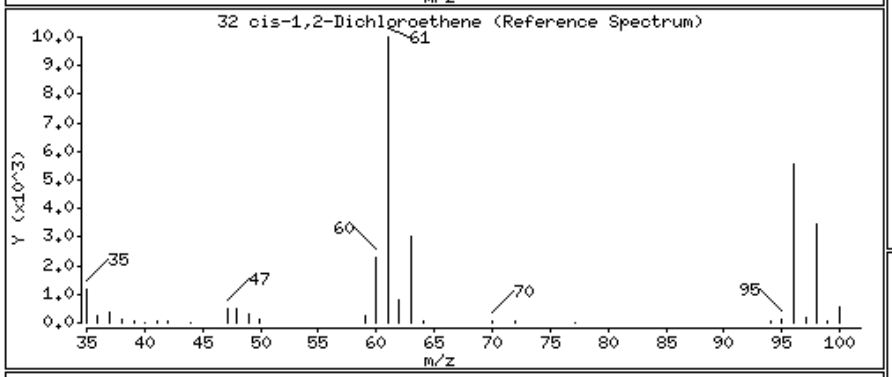
32 cis-1,2-Dichloroethene Concentration: 25.5718 ug/L

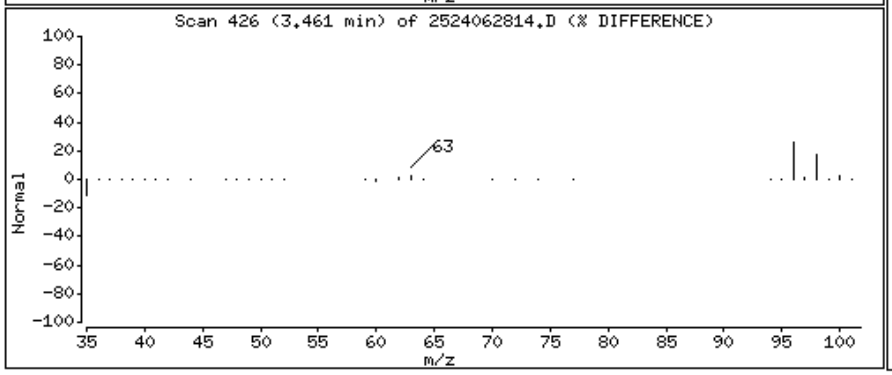


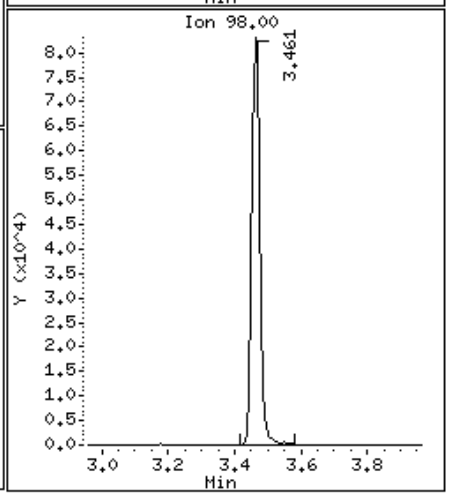












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 7

Date : 28-JUN-2024 14:28

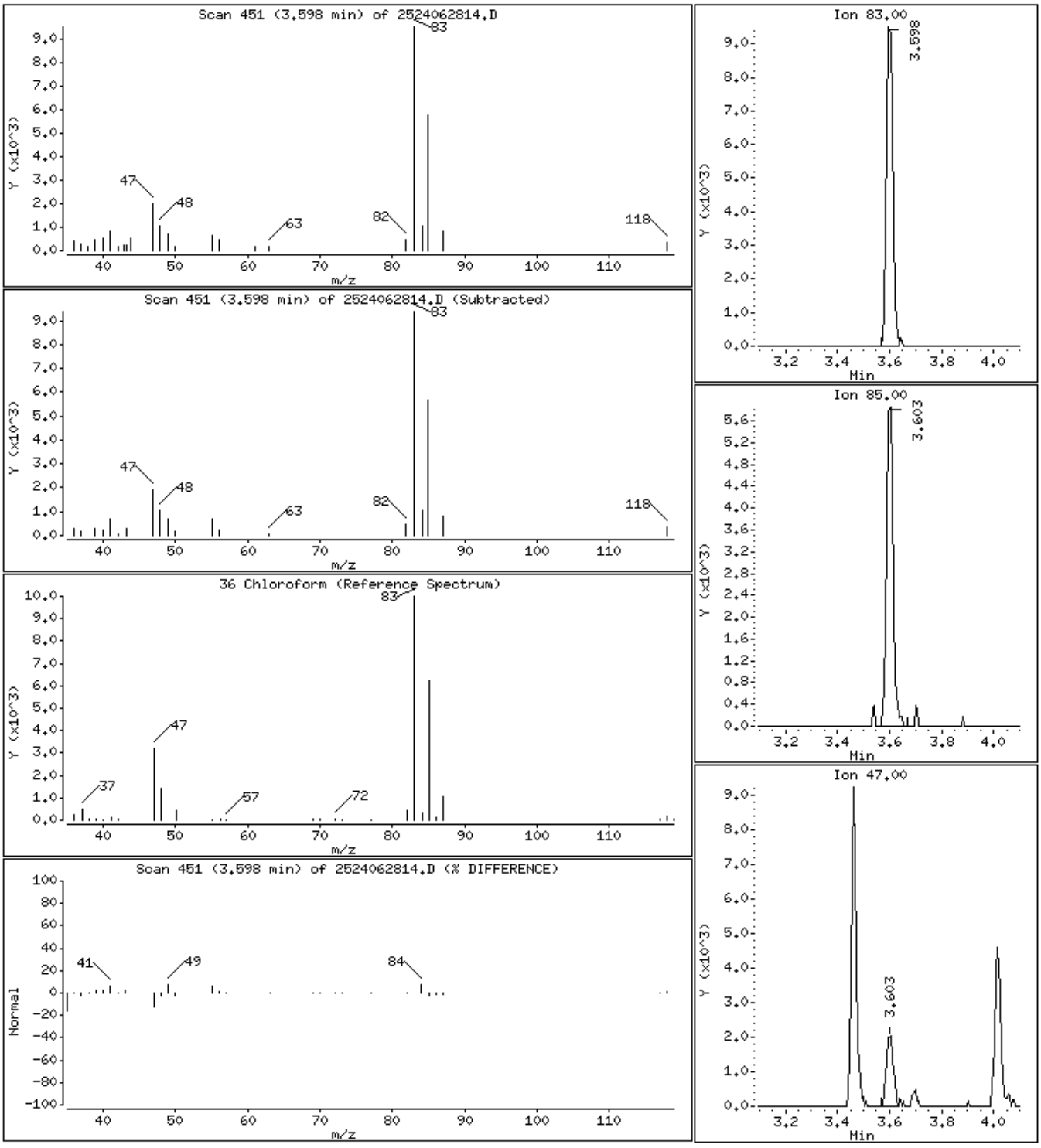
Client ID: ICT11_062024 Instrument: ms25.i

Sample Info: 3366026005;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

36 Chloroform Concentration: 1.06202 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 8

Date : 28-JUN-2024 14:28

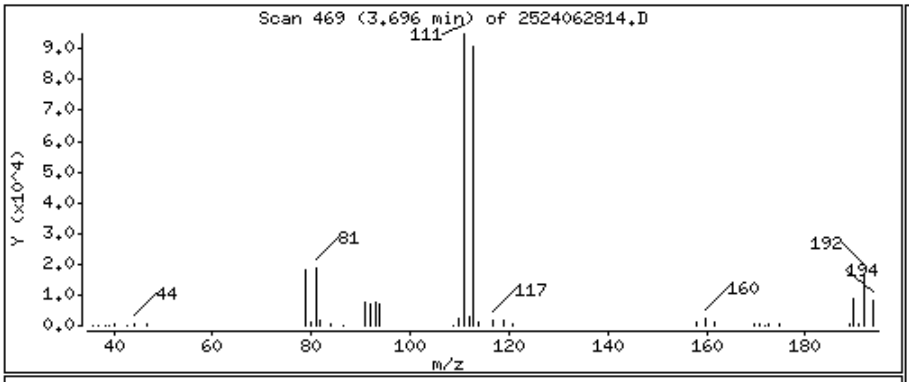
Client ID: ICT11_062024 Instrument: ms25.i

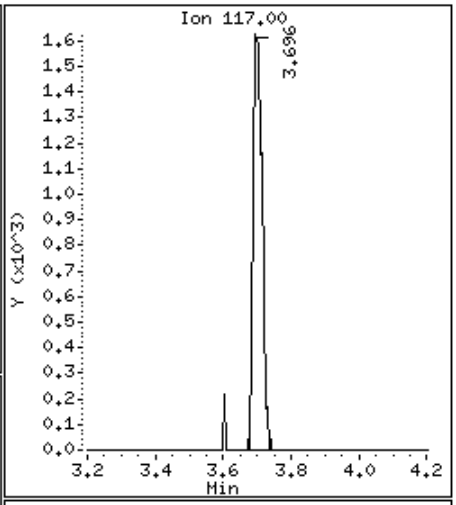
Sample Info: 3366026005;;1;;;;;

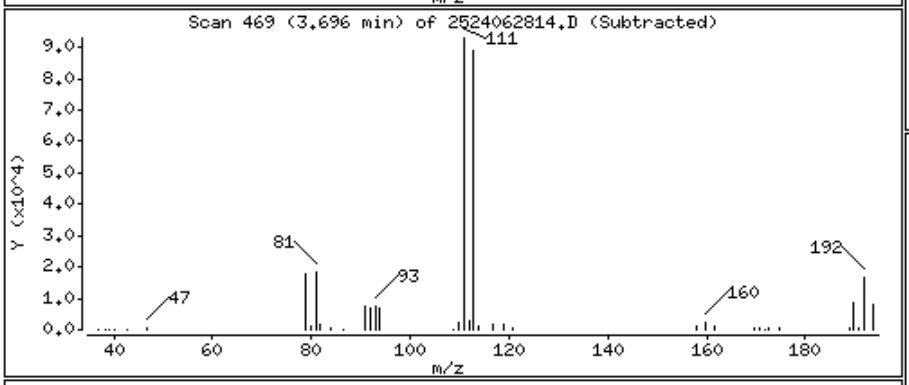
Purge Volume: 5.0 Operator: TMP

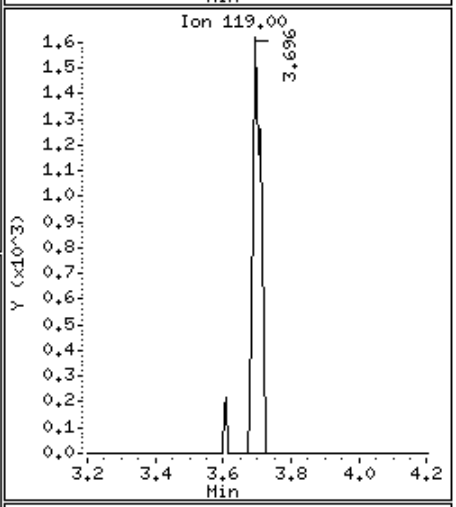
Column phase: DB-VRX Column diameter: 0.25

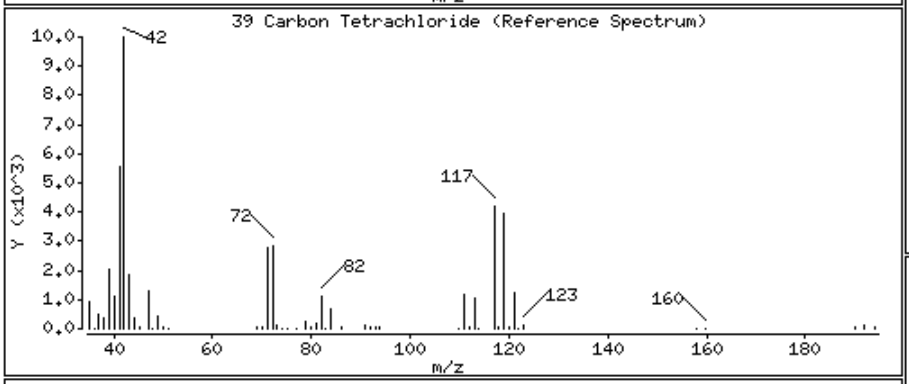
39 Carbon Tetrachloride Concentration: 0.679109 ug/L

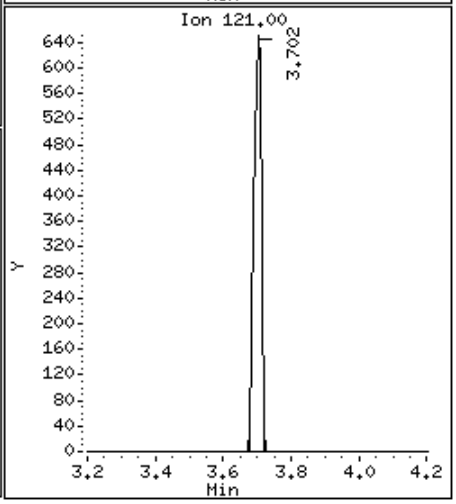


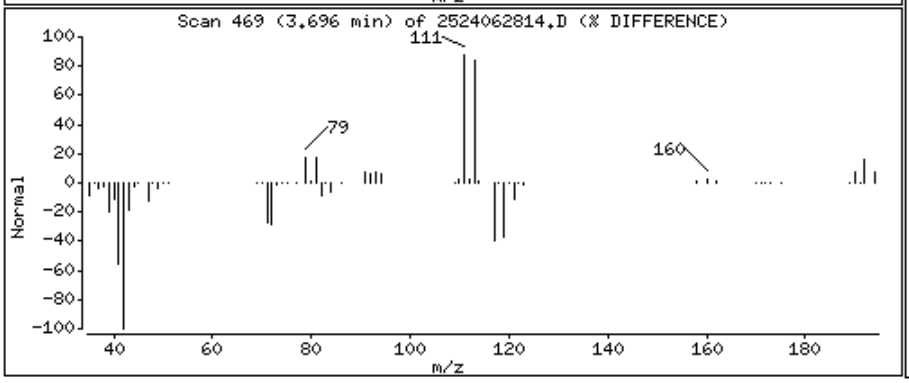












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D Page 9

Date : 28-JUN-2024 14:28

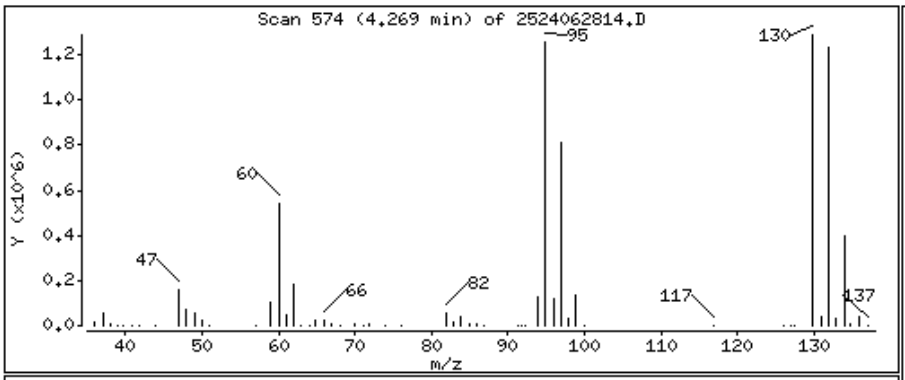
Client ID: ICT11_062024 Instrument: ms25.i

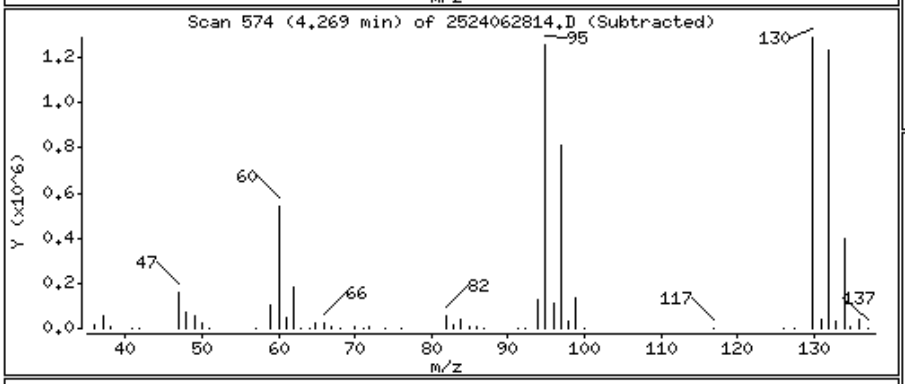
Sample Info: 3366026005;;1;;;;;

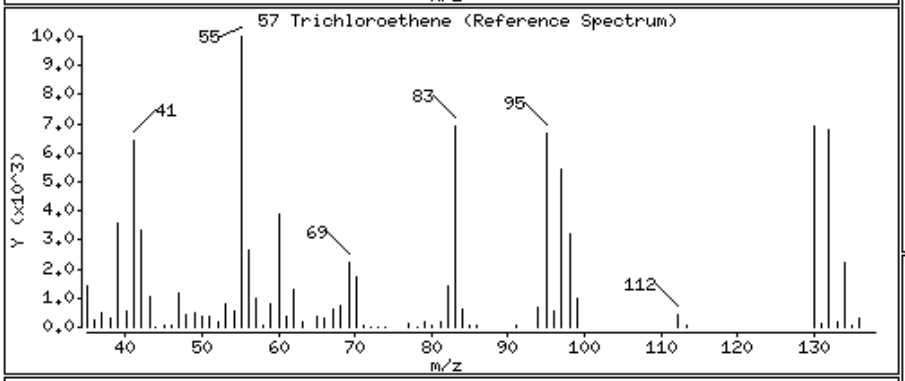
Purge Volume: 5.0 Operator: TMP

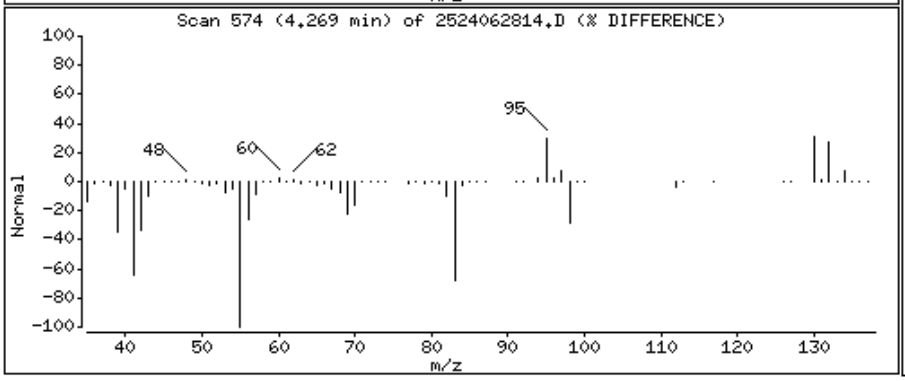
Column phase: DB-VRX Column diameter: 0.25

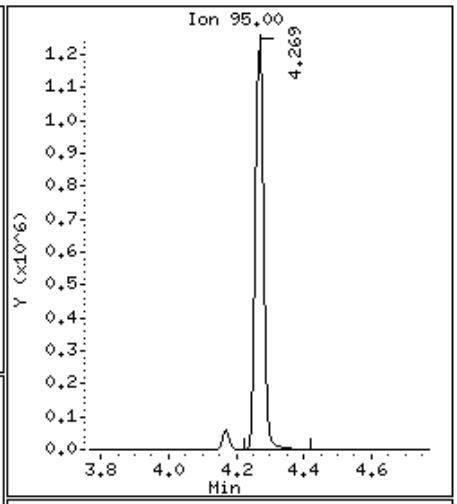
57 Trichloroethene Concentration: 239.896 ug/L

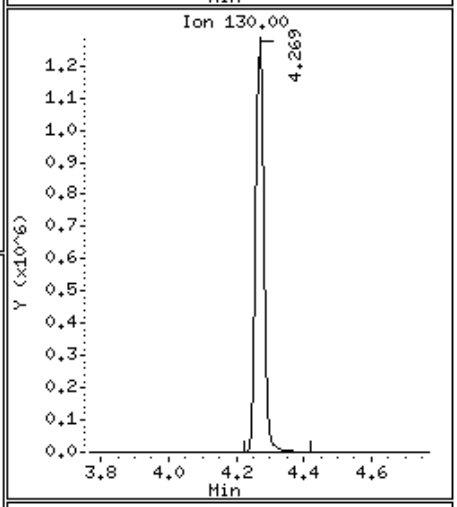


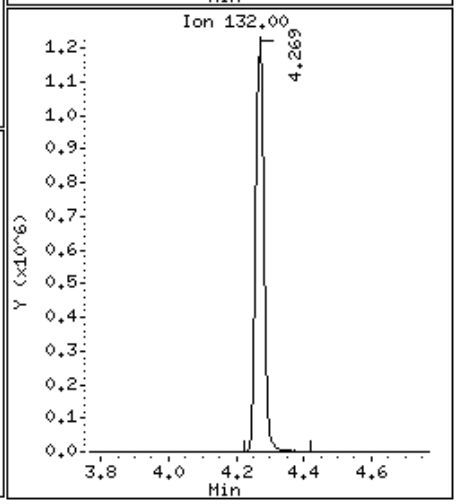












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062814.D
Inj Date : 28-JUN-2024 14:28
InstruID : ms25.i
LabSampID : 3366026005

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:07
Client ID: ICT11_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406281
Inj Date: 28-JUN-2024 14:28
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Acrolein
tert-amyl methyl Ether
tert-Amyl Alcohol
tert-Amyl Ethylether
Bromodichloromethane
3-Chloro-1-propene
1,2-Dichloroethane
Dichlorofluoromethane
Ethyl methacrylate
Heptane
Methacrylonitrile
Methyl cyclohexane
Methylene Chloride
2-Nitropropane
1,1,1-Trichloroethane
Trichlorofluoromethane

Data File: 2524062815.D Page 1
Report Date: 30-Jun-2024 15:08

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D
Lab Smp Id: 3366026006 Client Smp ID: ICT12A_062024
Inj Date : 28-JUN-2024 14:48
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026006;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	4463	0.36365	0.363652(aQ)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	17494	1.85343	1.85343	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.425	2.424	(0.581)	751206	113.154	113.154	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	4709	0.50938	0.509378(a)	
21 Hexane	57	Compound Not Detected.						

Data File: 2524062815.D Page 2
Report Date: 30-Jun-2024 15:08

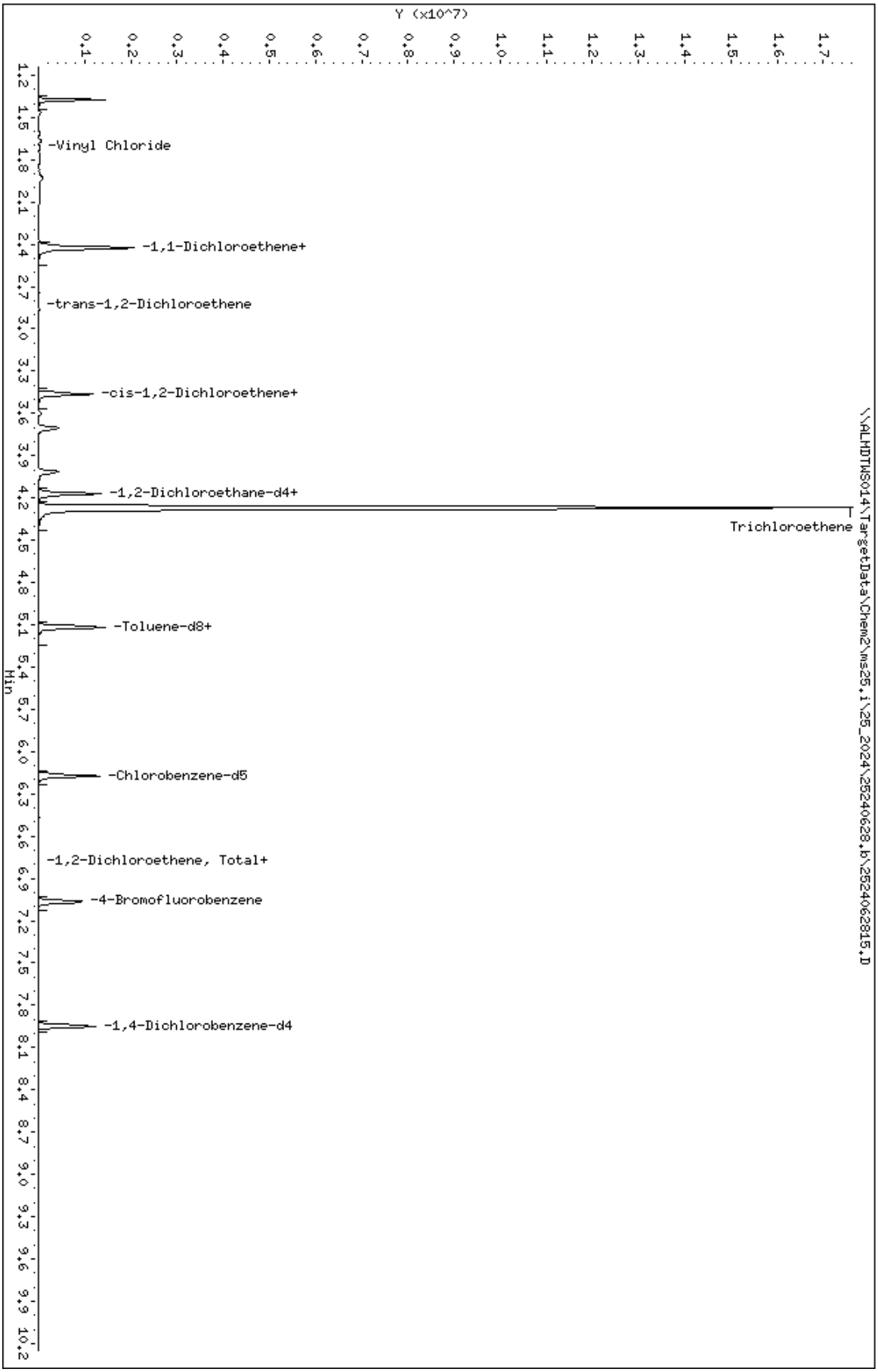
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	503801	53.7470	53.7470	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				508510	54.2563	54.2563	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.598	3.598	(0.863)	38418	2.82560	2.82560	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	3.701	3.696	(0.887)	9465	4.10179	4.10179(a)	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	209640	27.0797	27.0797	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	250624	30.7106	30.7106	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	981151	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	4437064	569.795	569.795(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	829531	29.5120	29.5120	
	69 Toluene	92	5.153	5.153	(0.835)	4661	0.26162	0.261625(a)	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062815.D Page 3
Report Date: 30-Jun-2024 15:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	355025	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	6.648	6.648	(0.836)	6181	0.64048	0.640483(a)	
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	240907	29.0616	29.0616	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	299642	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D
Date : 28-JUN-2024 14:48
Client ID: ICT12A_062024
Sample Info: 33660260006;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 2

Date : 28-JUN-2024 14:48

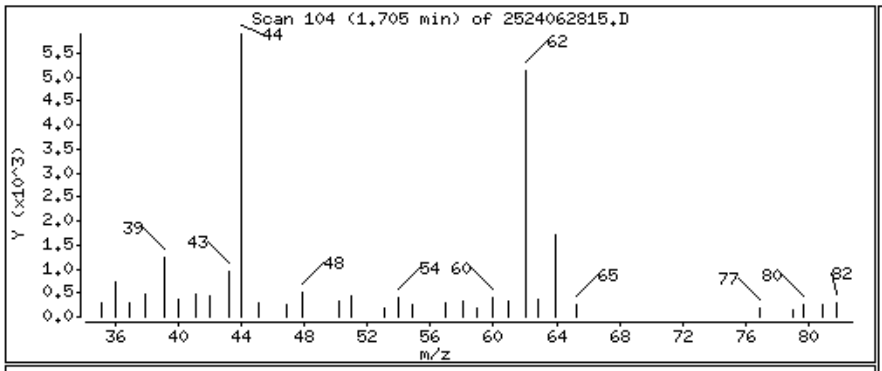
Client ID: ICT12A_062024 Instrument: ms25.i

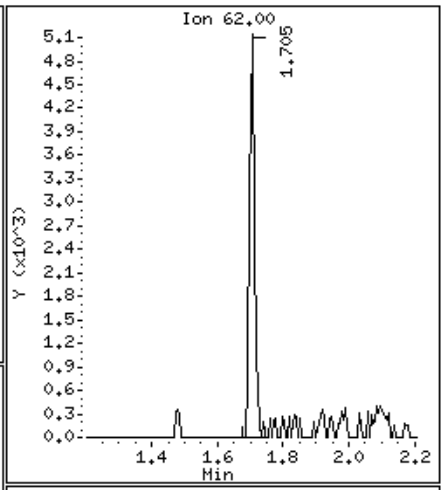
Sample Info: 3366026006;;1;;;;;

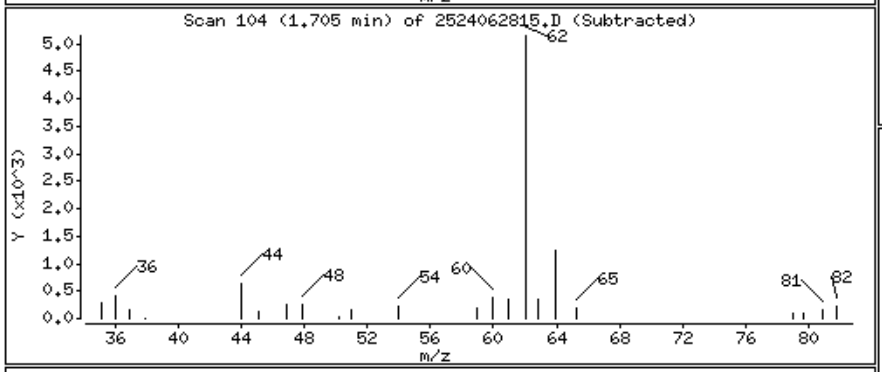
Purge Volume: 5.0 Operator: TMP

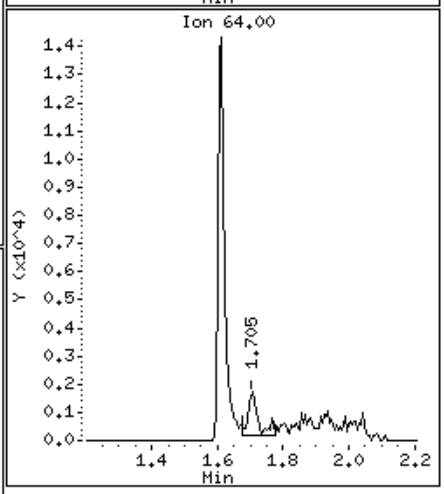
Column phase: DB-VRX Column diameter: 0.25

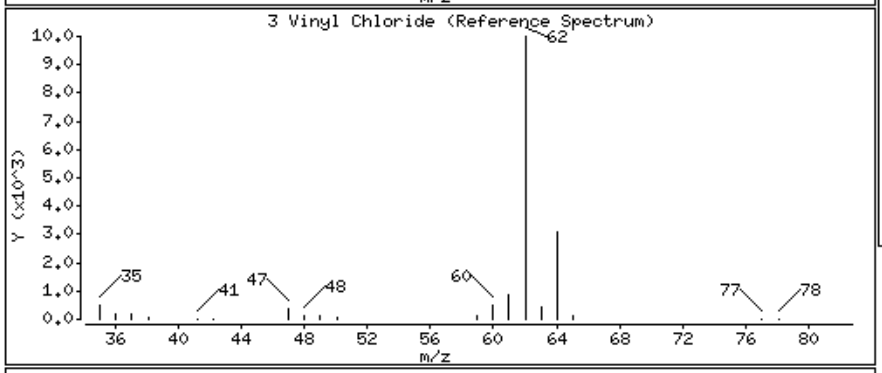
3 Vinyl Chloride Concentration: 0.363652 ug/L

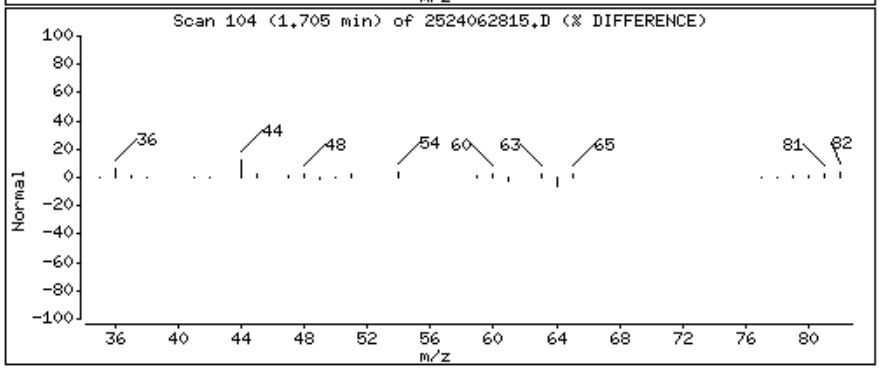












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 3

Date : 28-JUN-2024 14:48

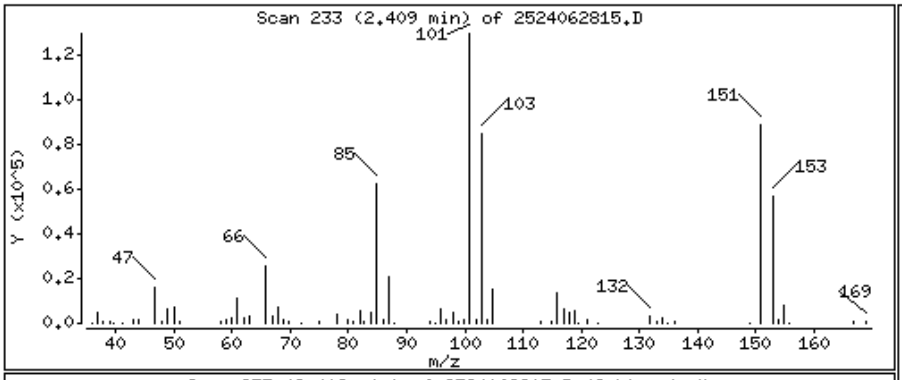
Client ID: ICT12A_062024 Instrument: ms25.i

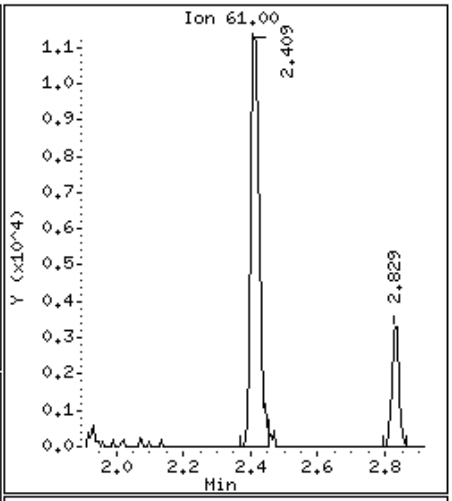
Sample Info: 3366026006;;1;;;;;

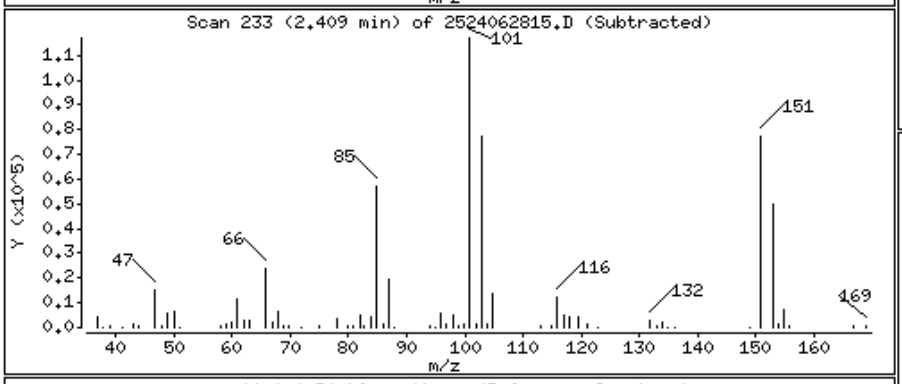
Purge Volume: 5.0 Operator: TMP

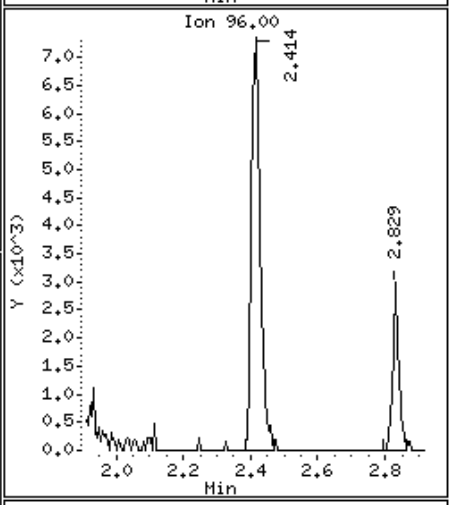
Column phase: DB-VRX Column diameter: 0.25

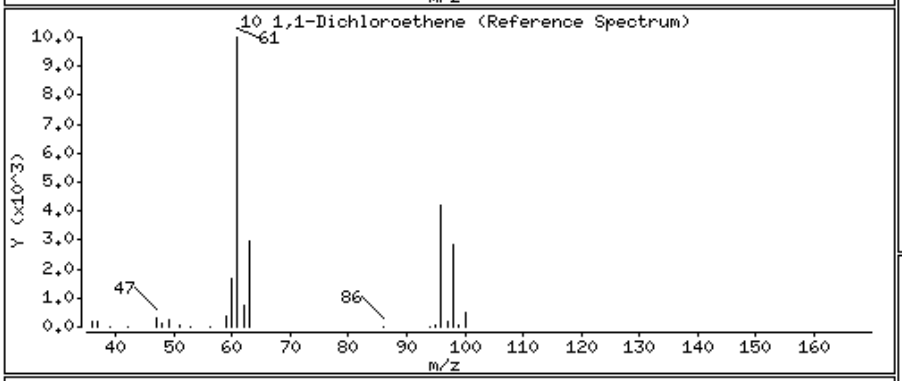
10 1,1-Dichloroethene Concentration: 1.85343 ug/L

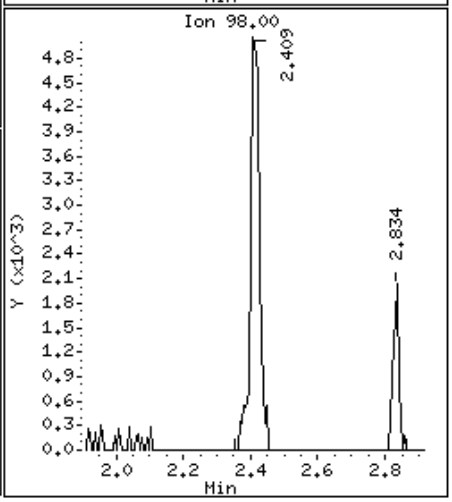


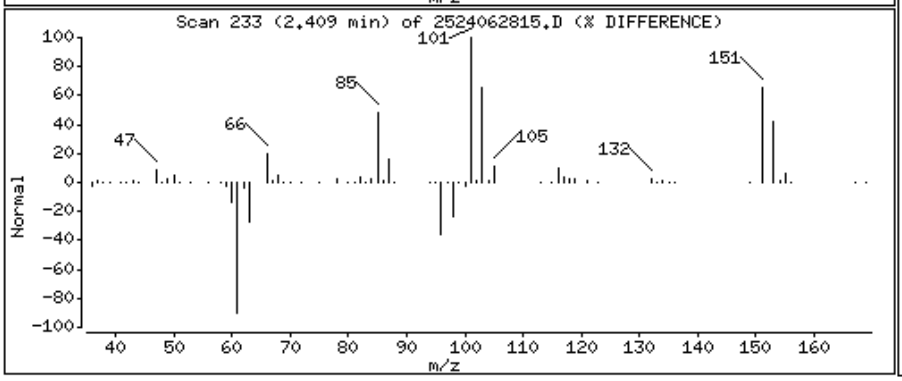












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 4

Date : 28-JUN-2024 14:48

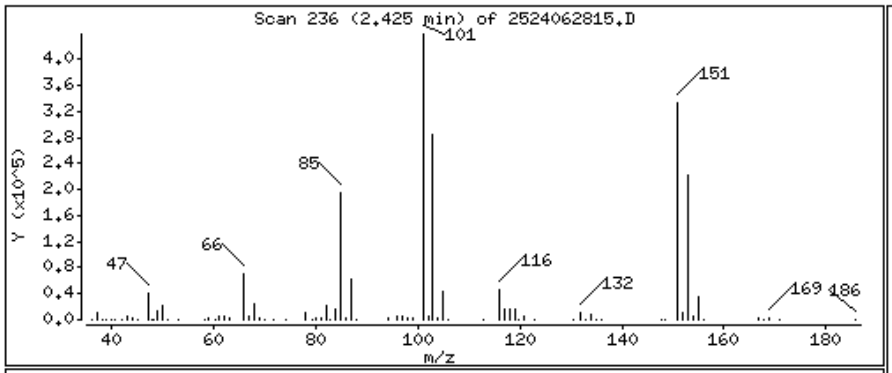
Client ID: ICT12A_062024 Instrument: ms25.i

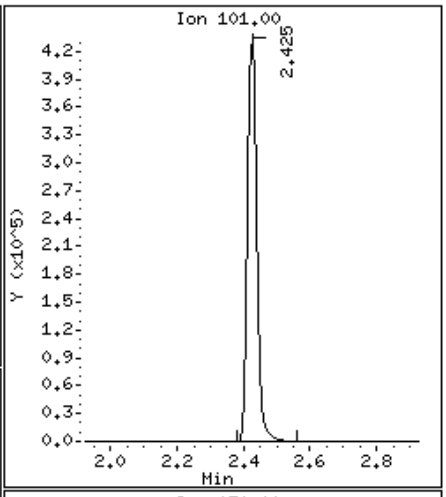
Sample Info: 3366026006;;1;;;;;

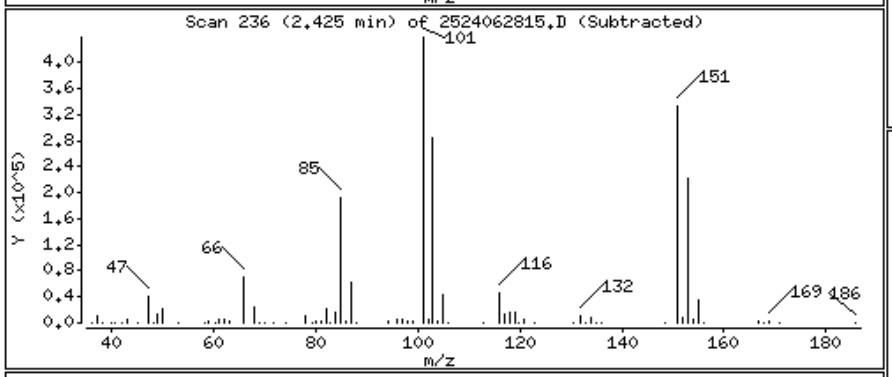
Purge Volume: 5.0 Operator: TMP

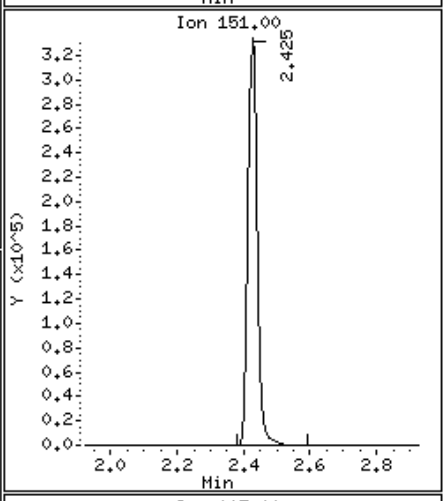
Column phase: DB-VRX Column diameter: 0.25

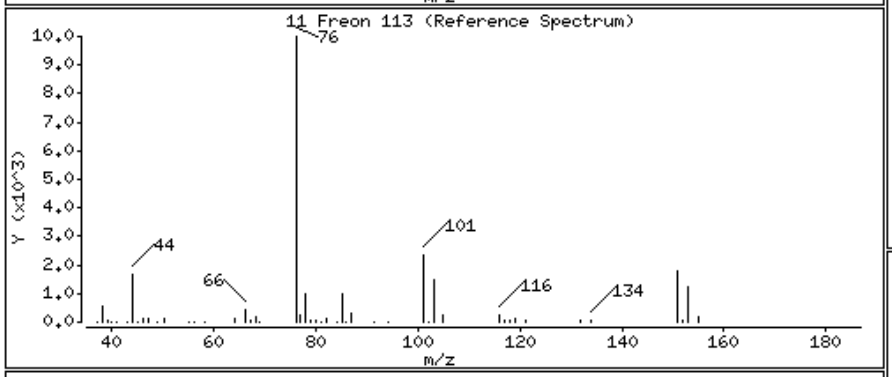
11 Freon 113 Concentration: 113.154 ug/L

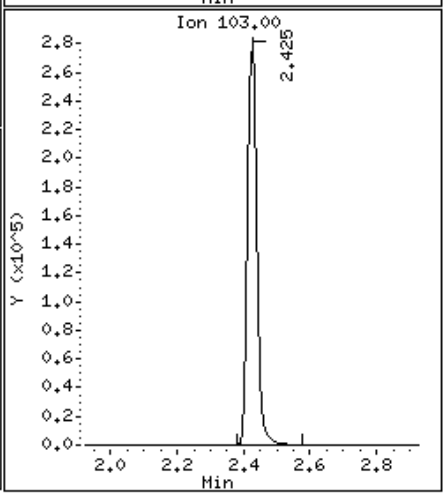


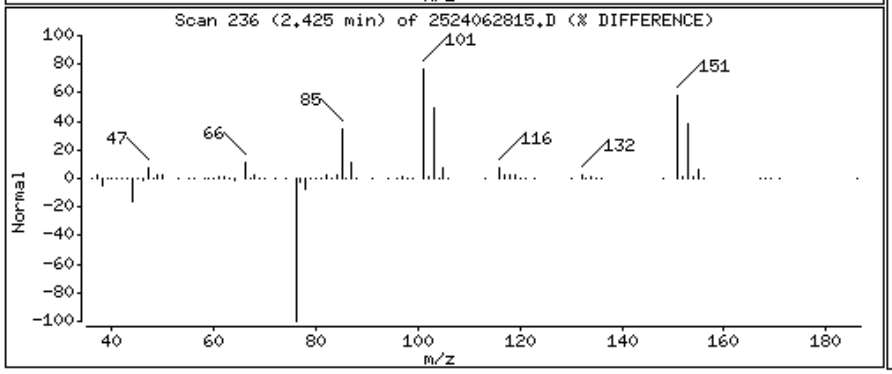












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 5

Date : 28-JUN-2024 14:48

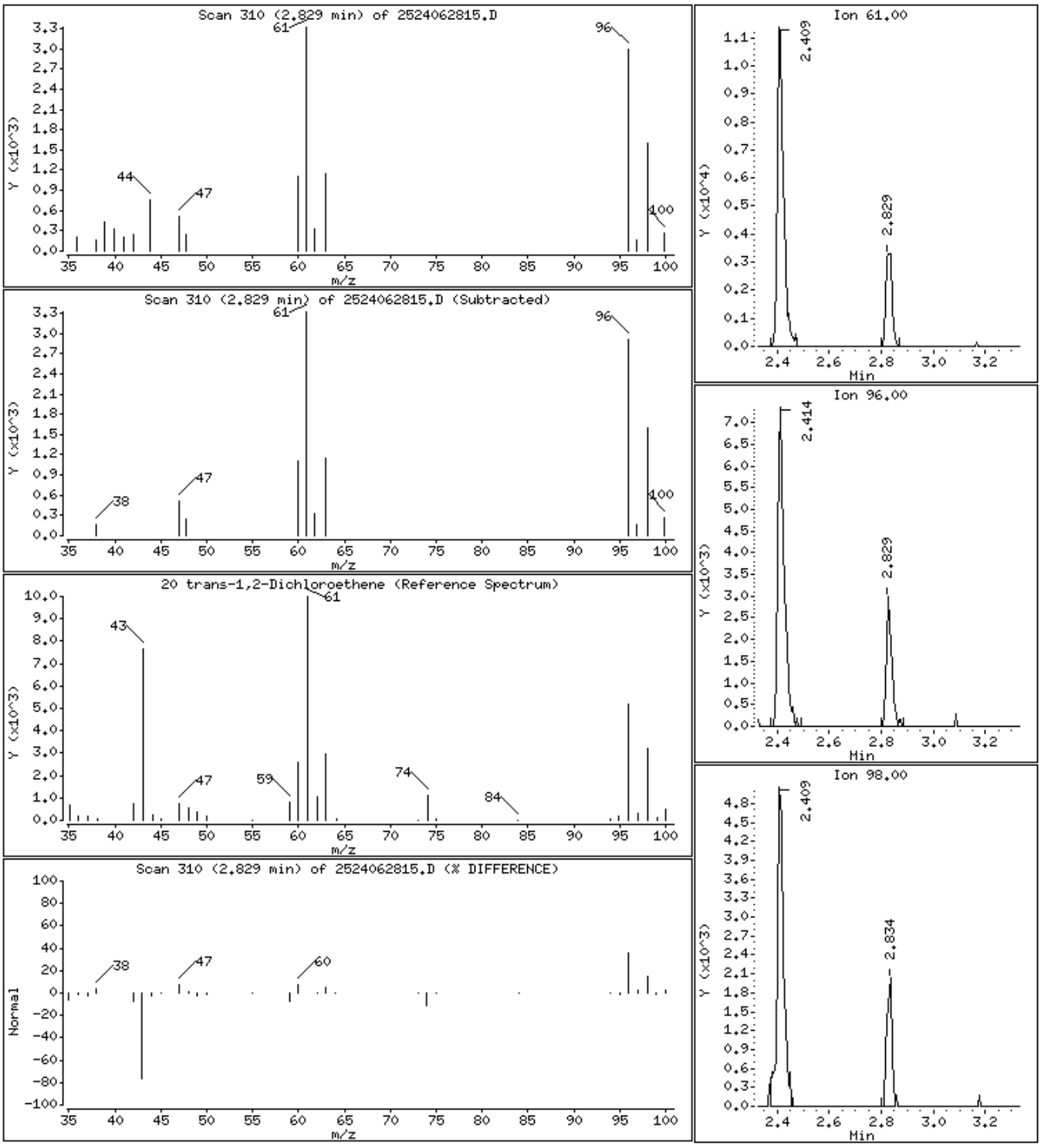
Client ID: ICT12A_062024 Instrument: ms25.i

Sample Info: 3366026006;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

20 trans-1,2-Dichloroethene Concentration: 0.509378 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 6

Date : 28-JUN-2024 14:48

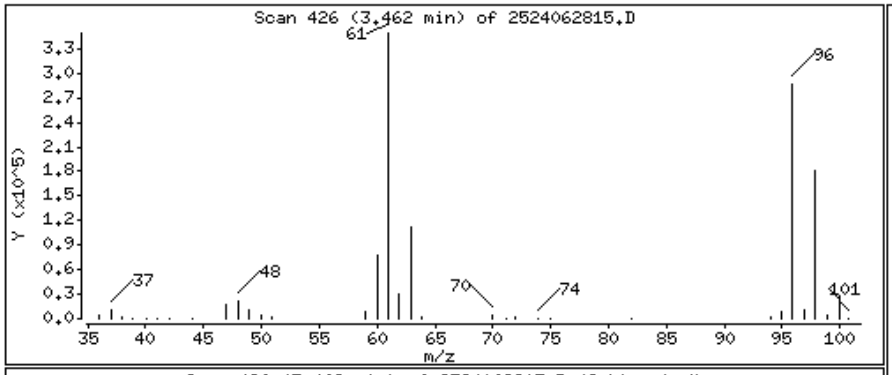
Client ID: ICT12A_062024 Instrument: ms25.i

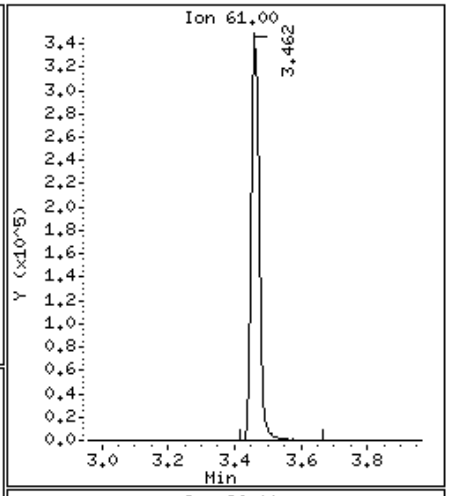
Sample Info: 3366026006;;1;;;;;

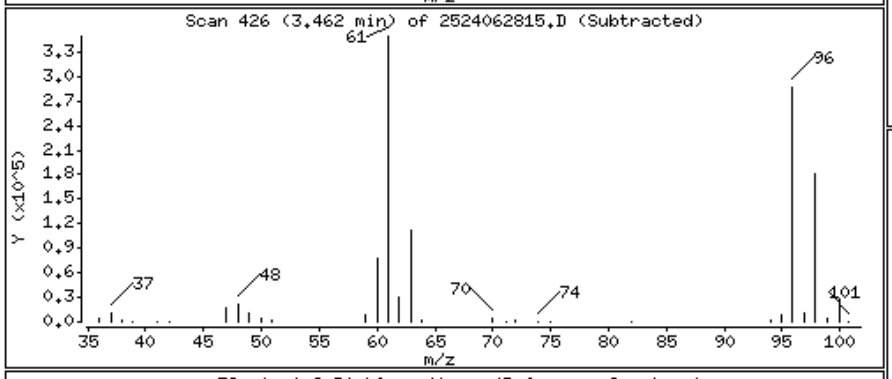
Purge Volume: 5.0 Operator: TMP

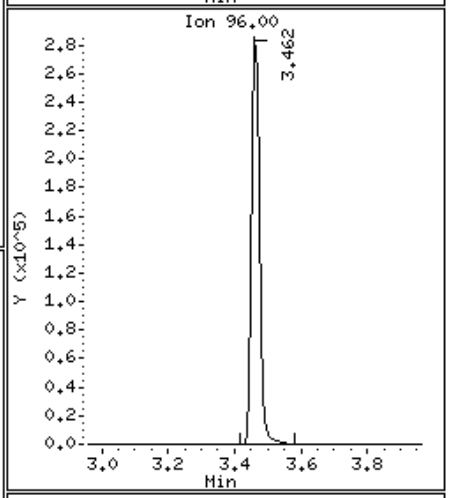
Column phase: DB-VRX Column diameter: 0.25

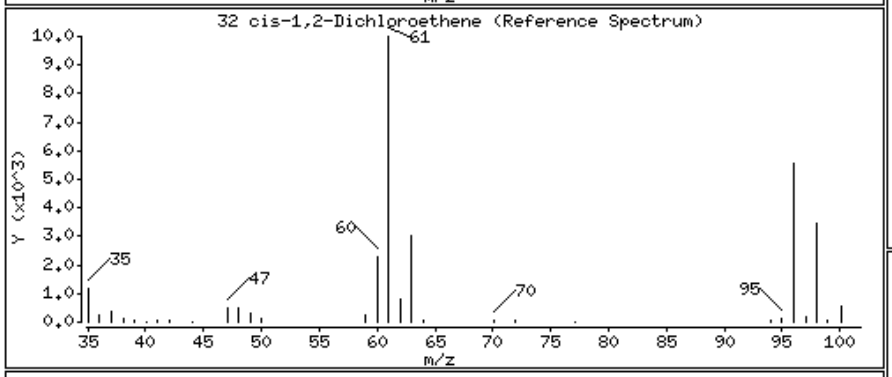
32 cis-1,2-Dichloroethene Concentration: 53.7470 ug/L

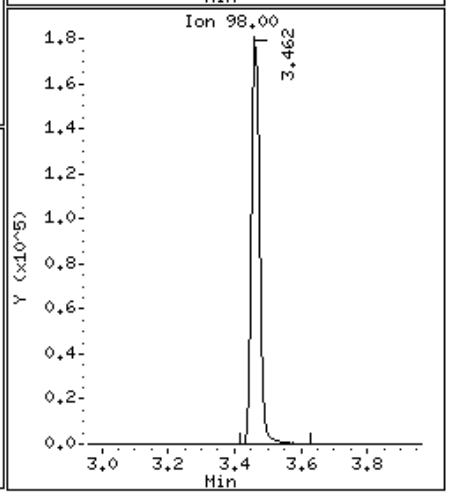


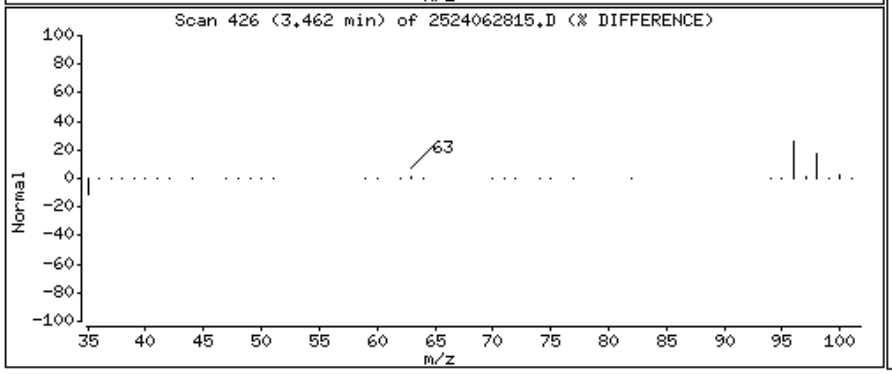












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 7

Date : 28-JUN-2024 14:48

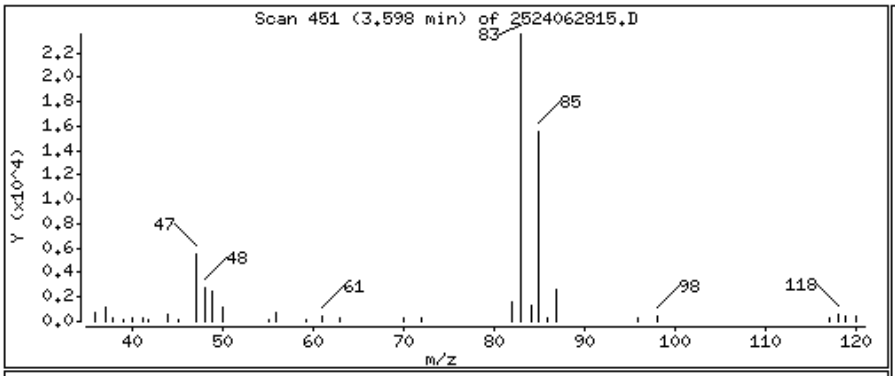
Client ID: ICT12A_062024 Instrument: ms25.i

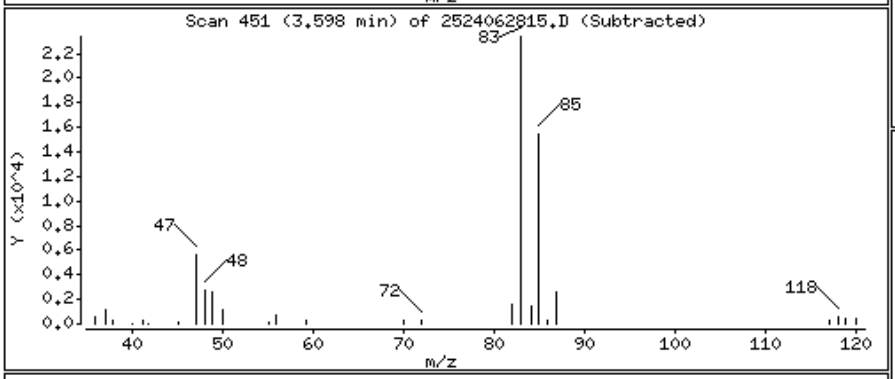
Sample Info: 3366026006;;1;;;;;

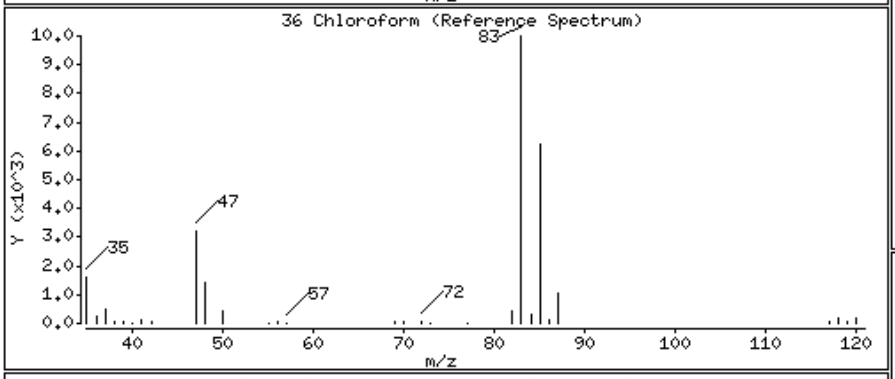
Purge Volume: 5.0 Operator: TMP

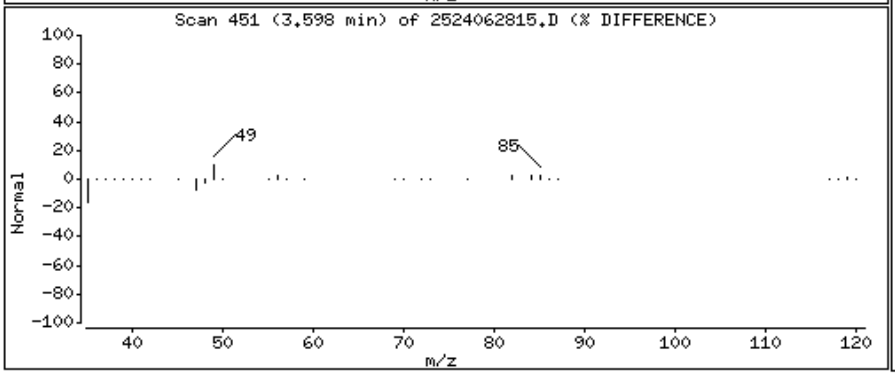
Column phase: DB-VRX Column diameter: 0.25

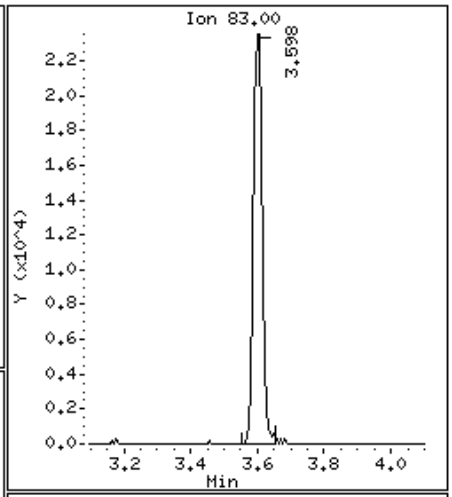
36 Chloroform Concentration: 2.82560 ug/L

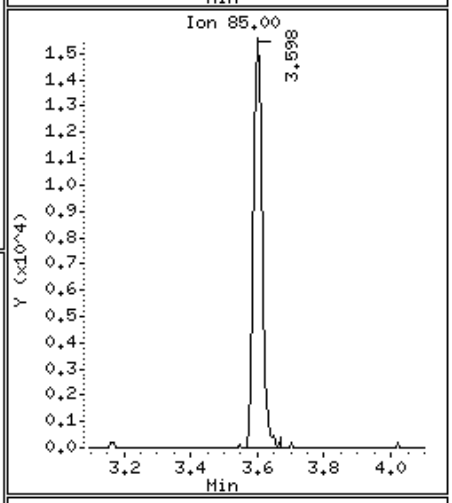


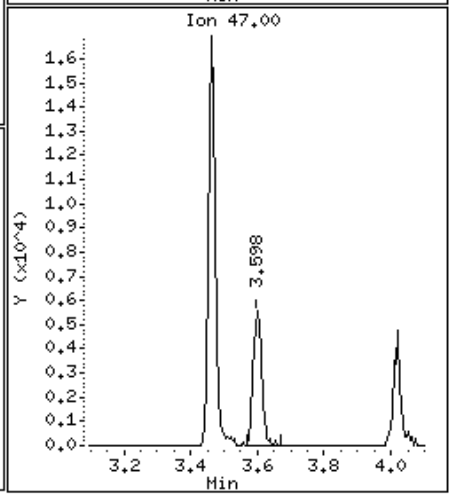












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 8

Date : 28-JUN-2024 14:48

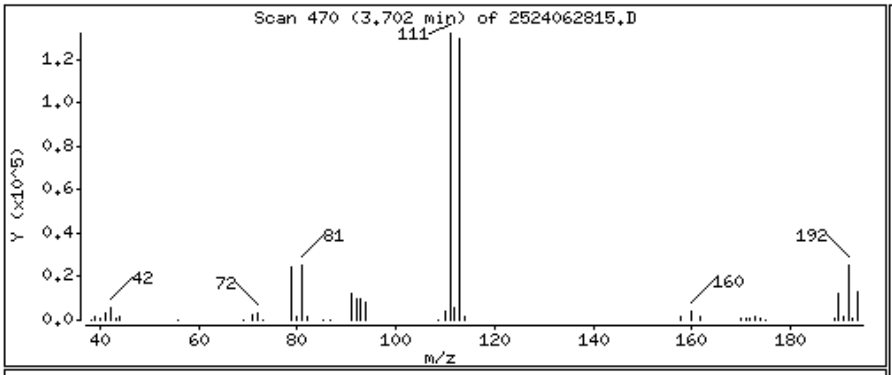
Client ID: ICT12A_062024 Instrument: ms25.i

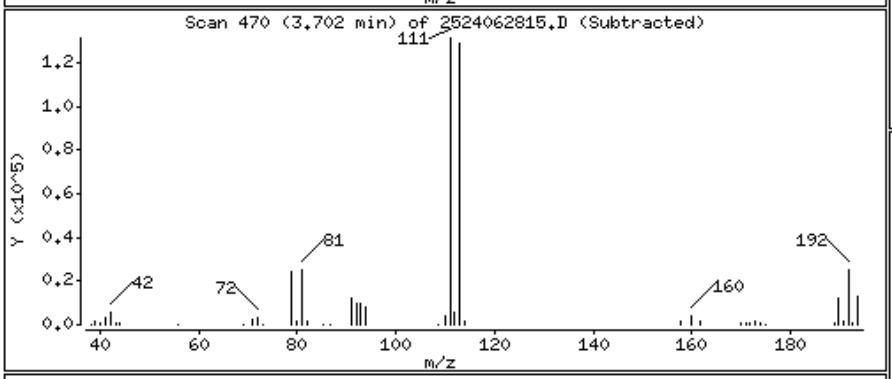
Sample Info: 3366026006;;1;;;;;

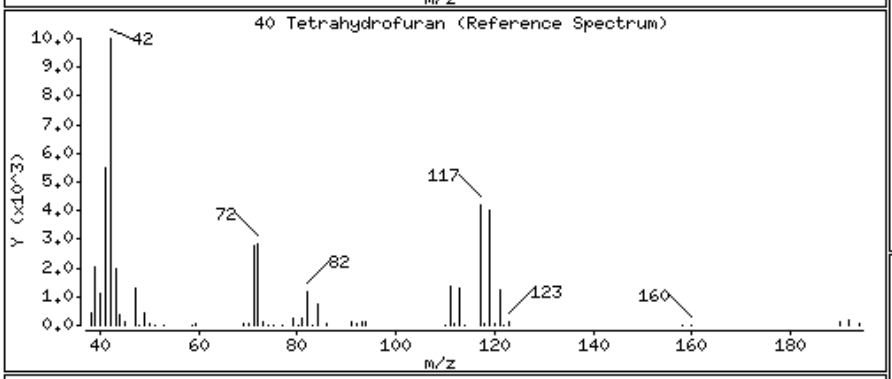
Purge Volume: 5.0 Operator: TMP

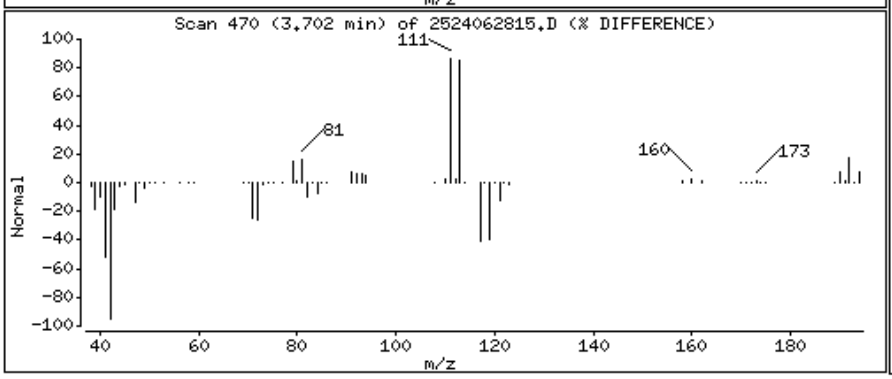
Column phase: DB-VRX Column diameter: 0.25

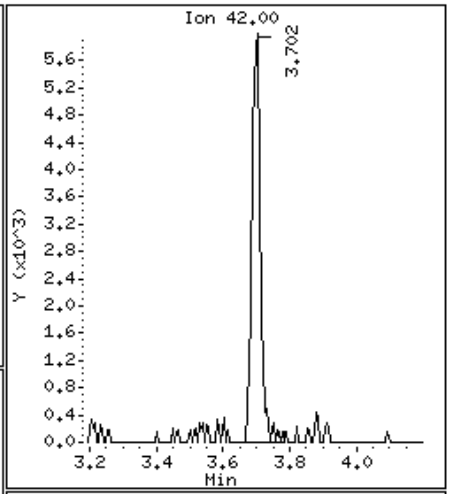
40 Tetrahydrofuran Concentration: 4.10179 ug/L

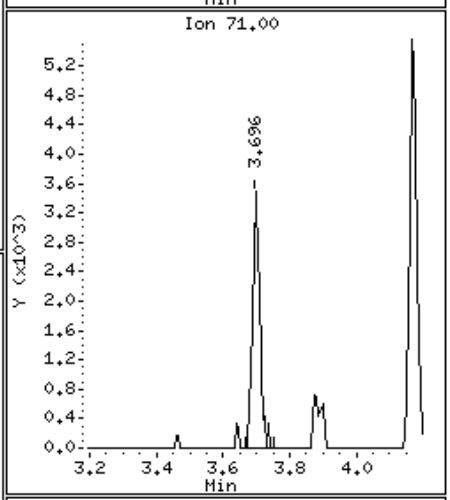


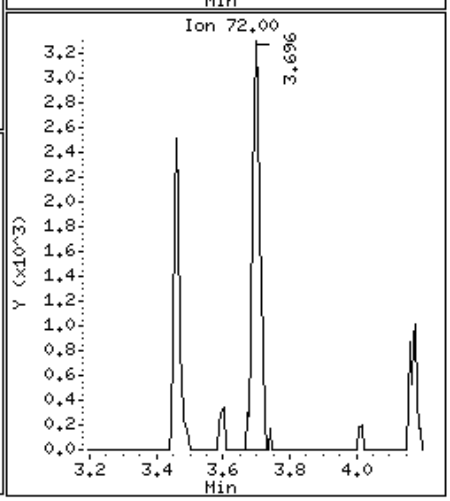












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 9

Date : 28-JUN-2024 14:48

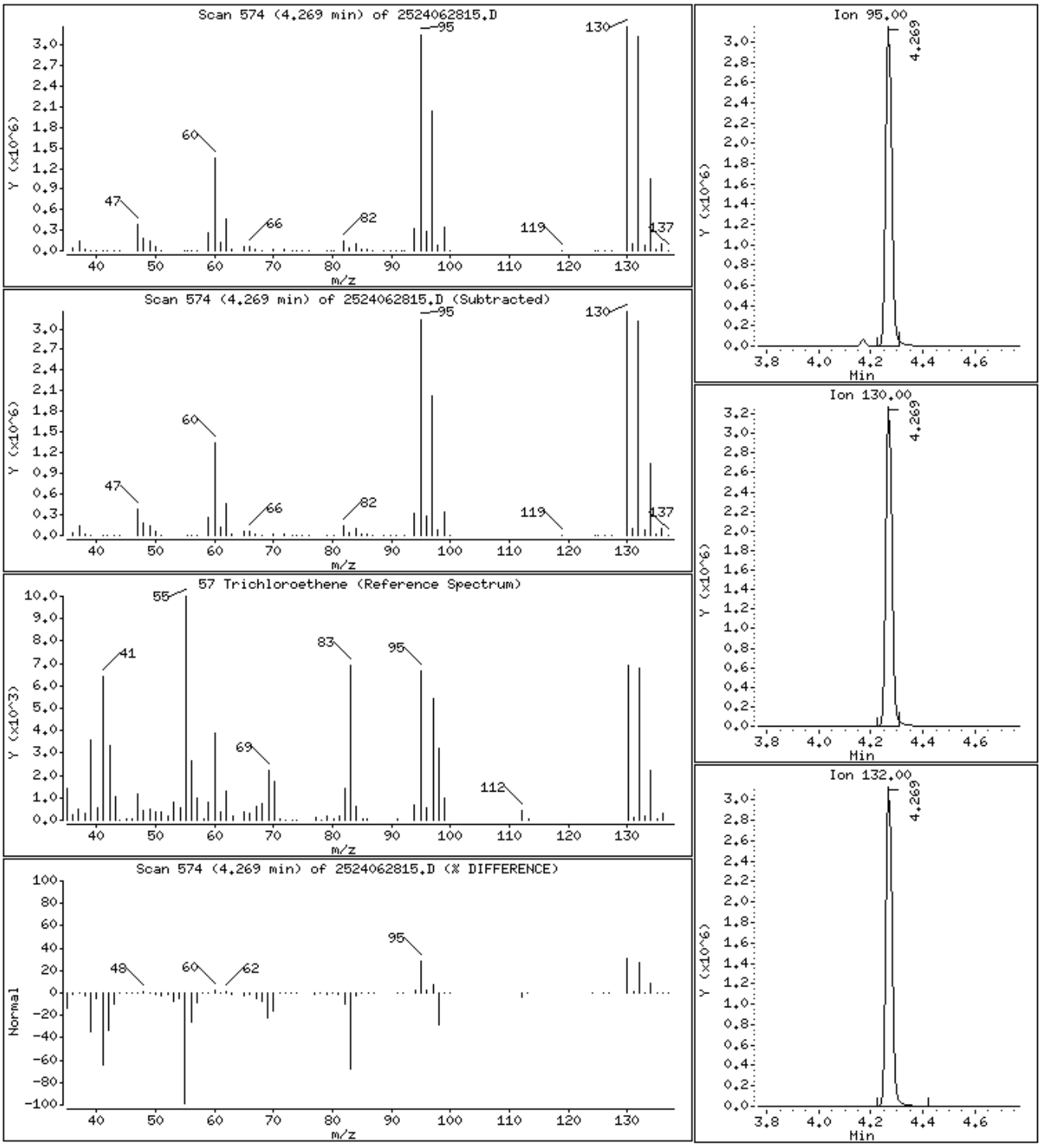
Client ID: ICT12A_062024 Instrument: ms25.i

Sample Info: 3366026006;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 569.795 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 10

Date : 28-JUN-2024 14:48

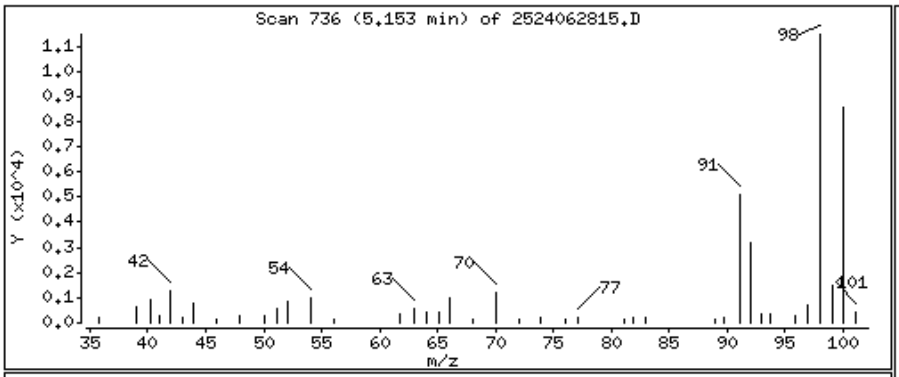
Client ID: ICT12A_062024 Instrument: ms25.i

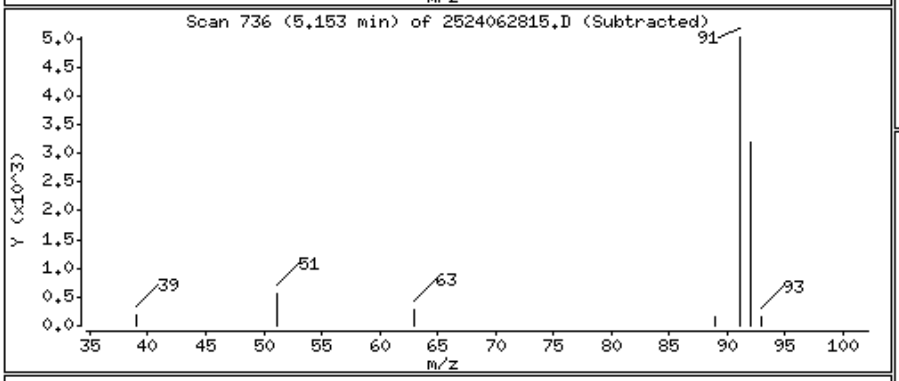
Sample Info: 3366026006;;1;;;;;

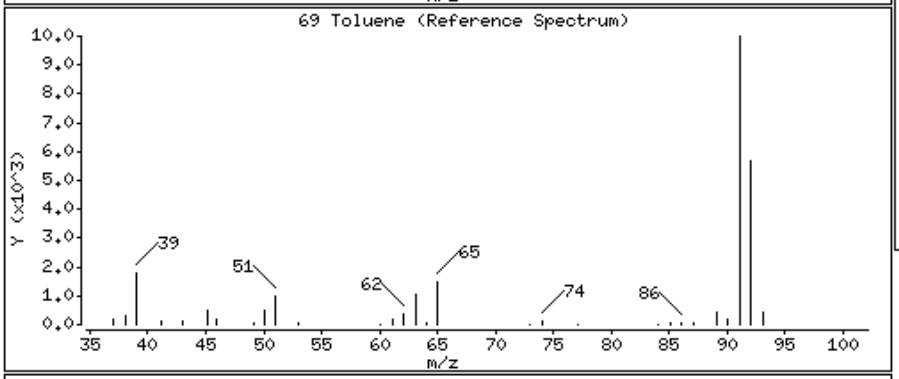
Purge Volume: 5.0 Operator: TMP

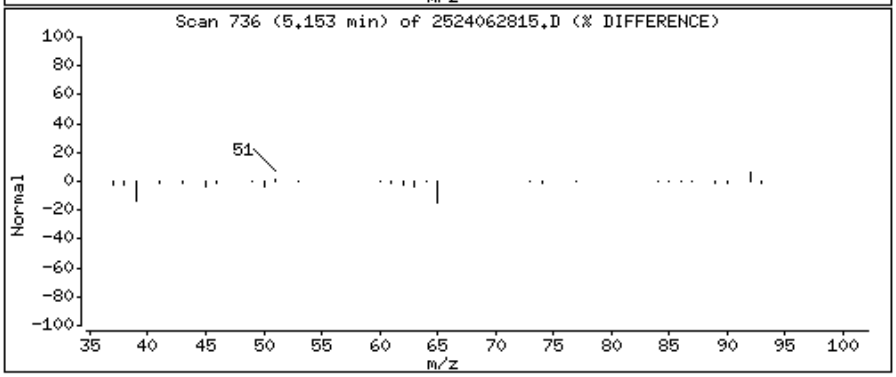
Column phase: DB-VRX Column diameter: 0.25

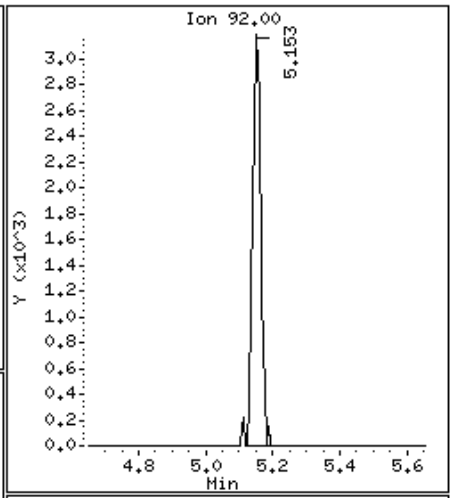
69 Toluene Concentration: 0.261625 ug/L

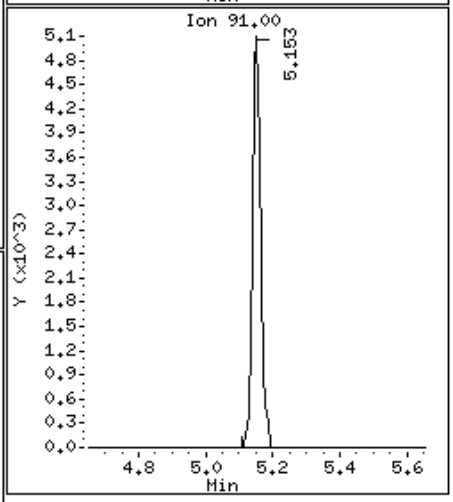












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D Page 11

Date : 28-JUN-2024 14:48

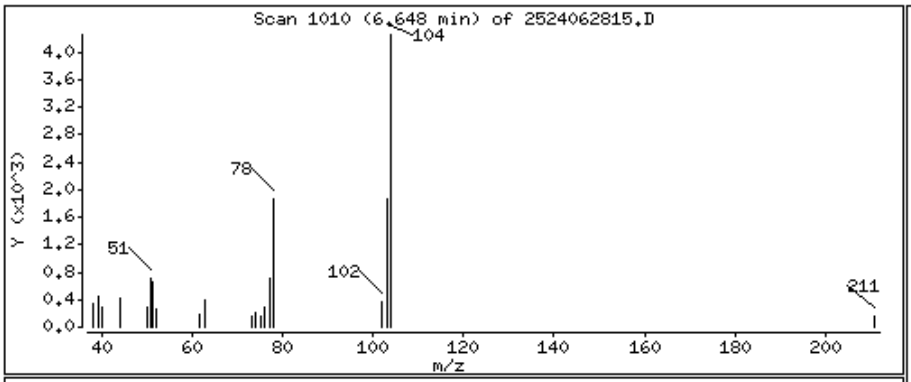
Client ID: ICT12A_062024 Instrument: ms25.i

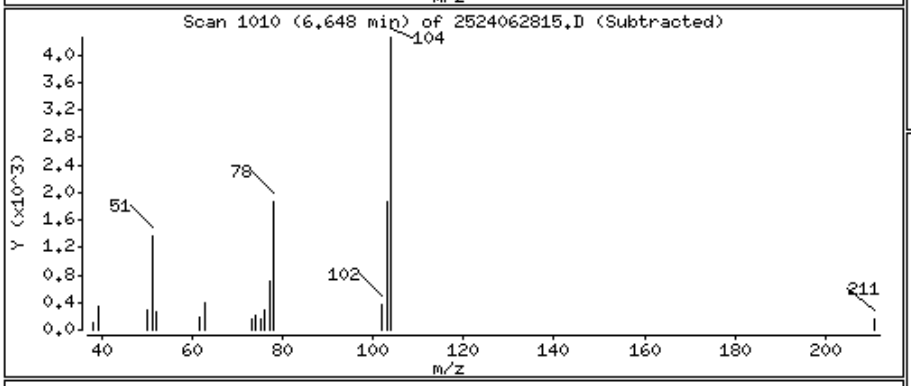
Sample Info: 3366026006;;1;;;;;

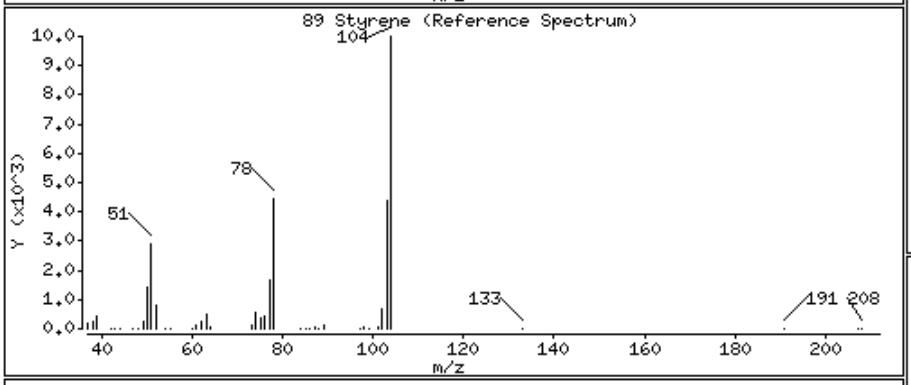
Purge Volume: 5.0 Operator: TMP

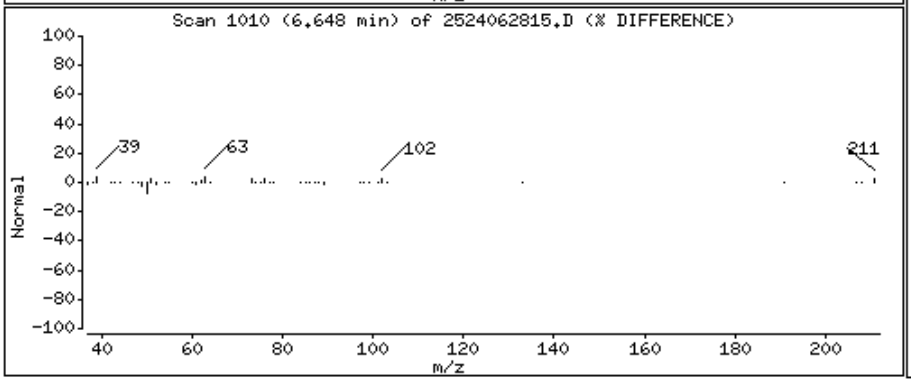
Column phase: DB-VRX Column diameter: 0.25

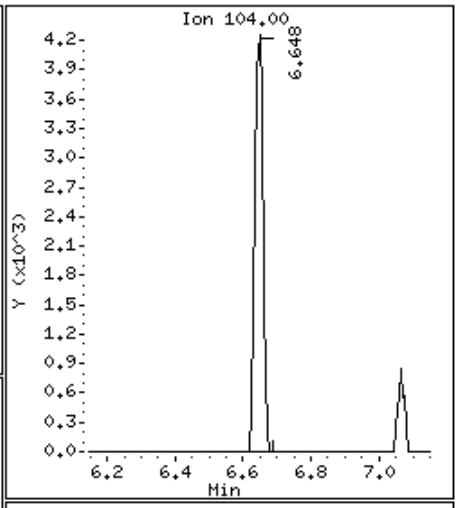
89 Styrene Concentration: 0.640483 ug/L

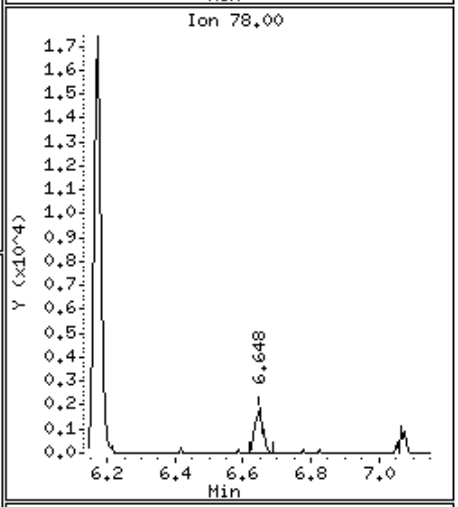


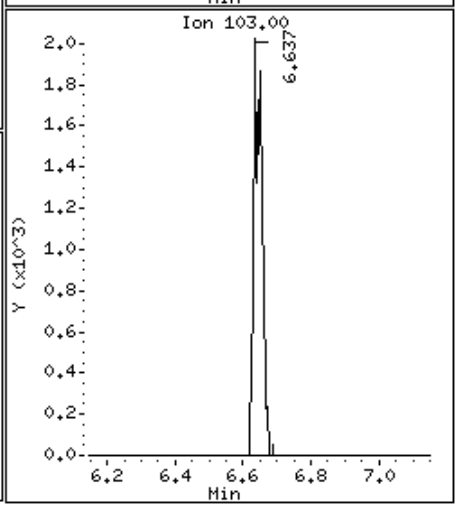












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062815.D
Inj Date : 28-JUN-2024 14:48
InstruID : ms25.i
LabSampID : 3366026006

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:08
Client ID: ICT12A_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406281
Inj Date: 28-JUN-2024 14:48
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
tert-Amyl Alcohol
Bromodichloromethane
1-Chlorohexane
Dichlorofluoromethane
Heptane
Methyl cyclohexane
2-Nitropropane
1,1,1-Trichloroethane
tert-amyl methyl Ether
tert-Amyl Ethylether
2-Butanone
1,1-Dichloro-2-propanone
Ethyl methacrylate
Methacrylonitrile
Methylene Chloride
Pentane
Trichlorofluoromethane

Data File: 2524062816.D Page 1
Report Date: 30-Jun-2024 15:10

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D
Lab Smp Id: 3366026007 Client Smp ID: ICT12B_062024
Inj Date : 28-JUN-2024 15:09
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026007;;1;;;;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	1.644	1.644	(0.394)	3947	0.33483	0.334829(a)	
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	4873785	794.171	794.171(A)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	6834	0.79969	0.799693(aH)	
21 Hexane	57	Compound Not Detected.						

Data File: 2524062816.D Page 2
Report Date: 30-Jun-2024 15:10

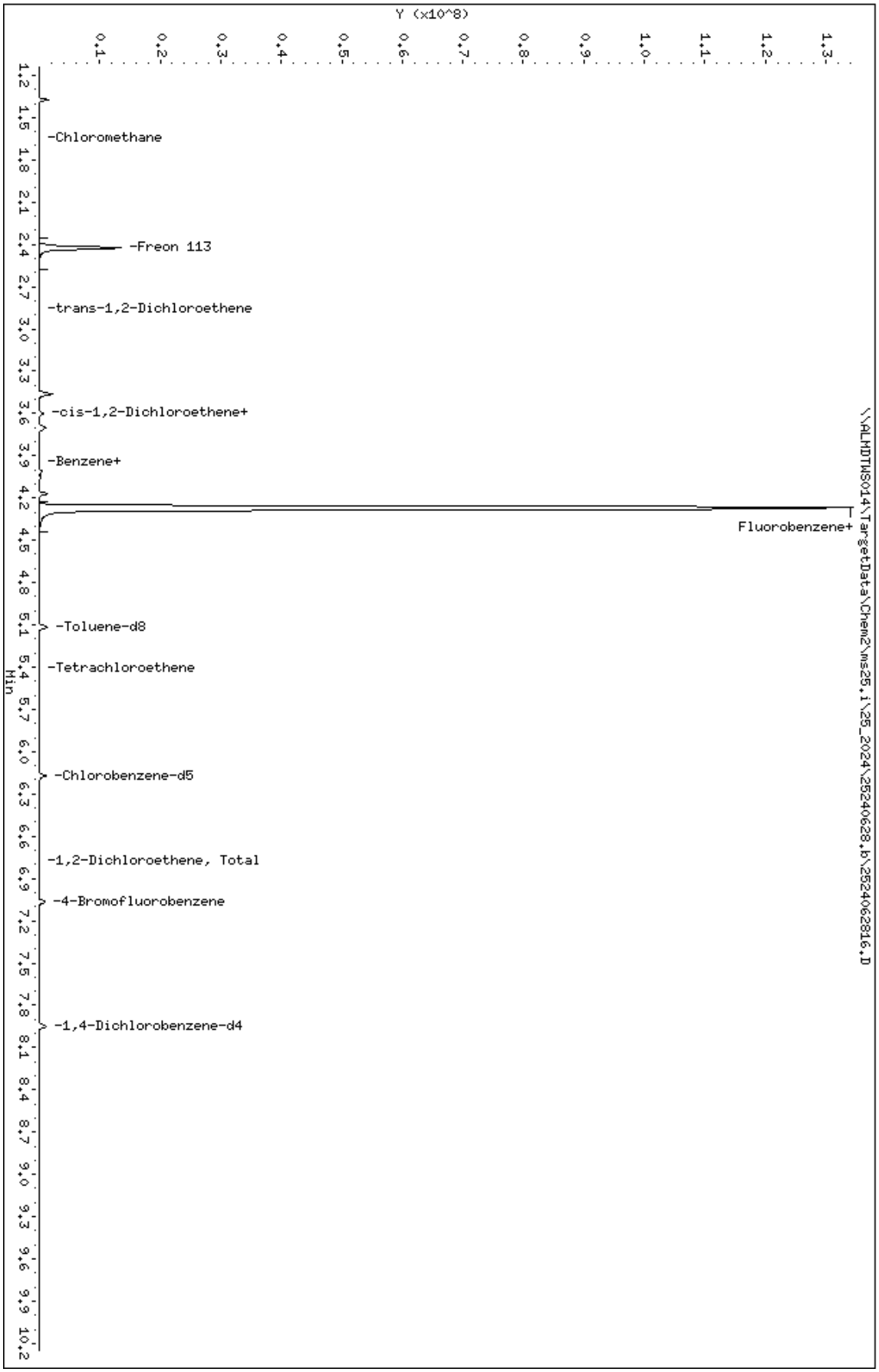
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	907246	104.703	104.703	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				914080	105.502	105.502	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.597	3.598	(0.863)	444667	35.3791	35.3791	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	315314	34.2407	34.2407	
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	218692	30.5590	30.5590	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	3.941	3.941	(0.945)	32797	1.15310	1.15310	
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	258911	34.3205	34.3205	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	906982	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.258	4.269	(1.021)	21759466	3022.79	3022.79(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	810879	31.0275	31.0275	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	14323	2.37463	2.37463	
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524062816.D Page 3
Report Date: 30-Jun-2024 15:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	330091	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	227604	29.3694	29.3694	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	280129	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.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0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Chloromethane
-Freon 113
-trans-1,2-Dichloroethene
-cis-1,2-Dichloroethene+
-Benzene+
Fluorobenzene+
-Toluene-d8
-Tetrachloroethene
-Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D
Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D
Date : 28-JUN-2024 15:09
Client ID: ICT12B_062024
Sample Info: 33660260073;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: THP
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 2

Date : 28-JUN-2024 15:09

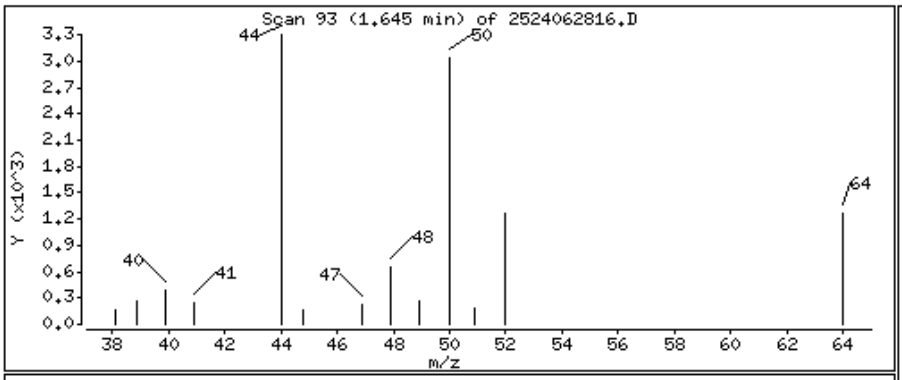
Client ID: ICT12B_062024 Instrument: ms25.i

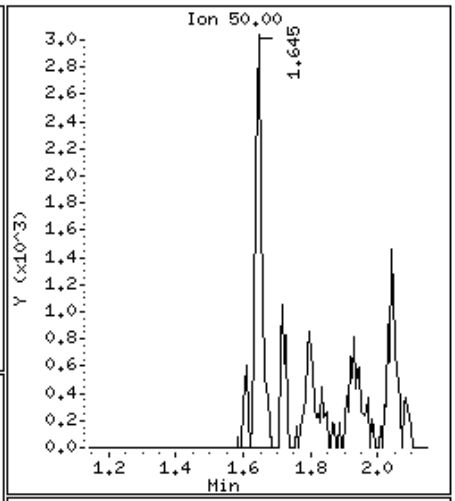
Sample Info: 3366026007;;1;;;;;

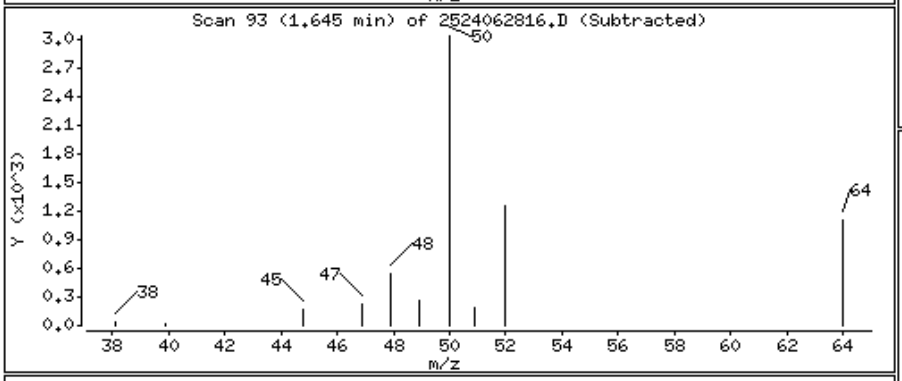
Purge Volume: 5.0 Operator: TMP

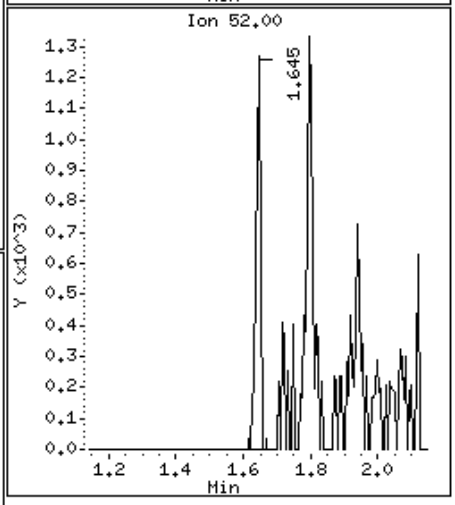
Column phase: DB-VRX Column diameter: 0.25

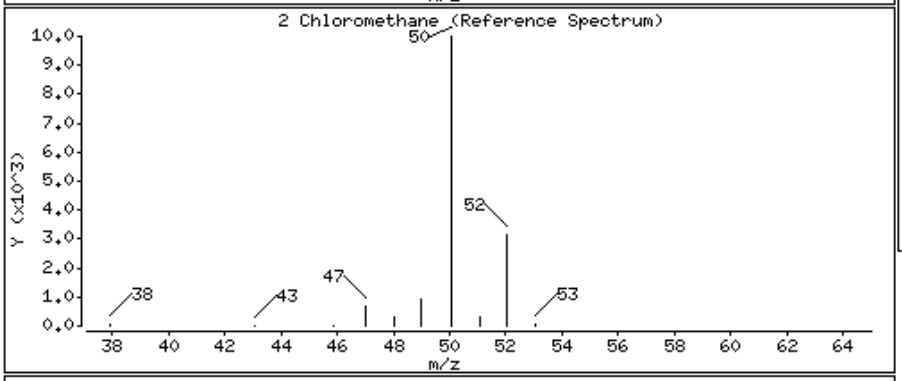
2 Chloromethane Concentration: 0.334829 ug/L

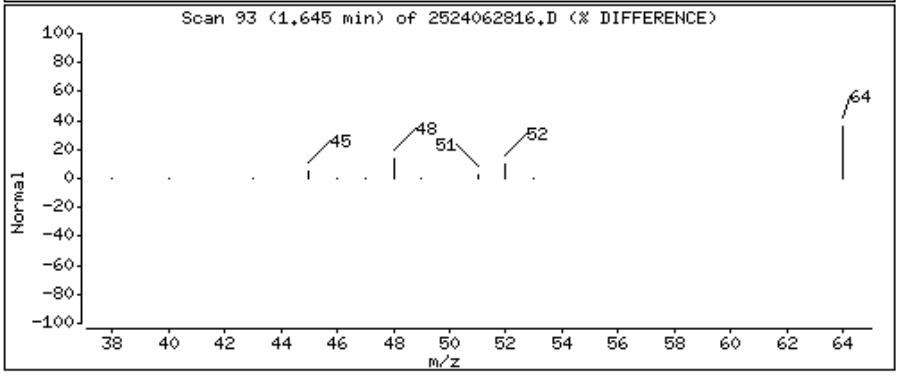












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 3

Date : 28-JUN-2024 15:09

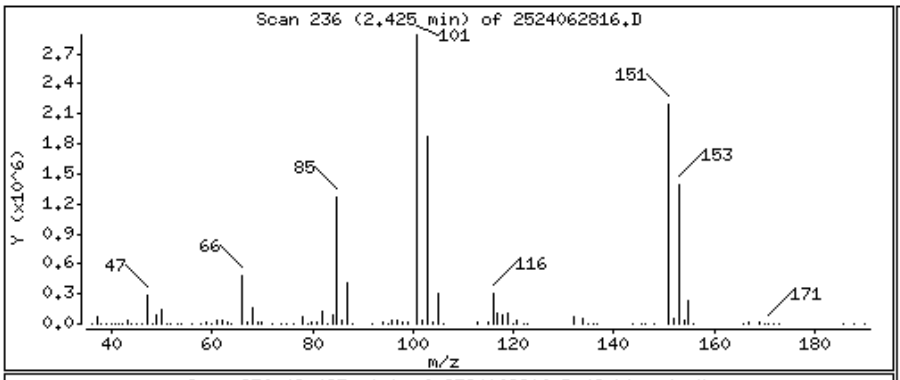
Client ID: ICT12B_062024 Instrument: ms25.i

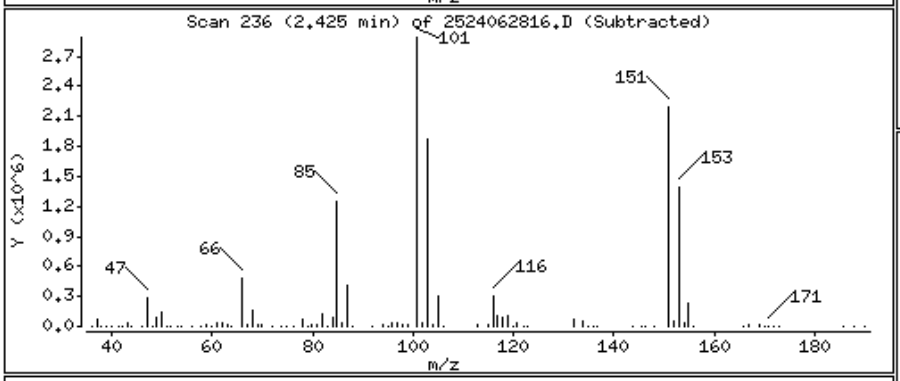
Sample Info: 3366026007;;1;;;;;

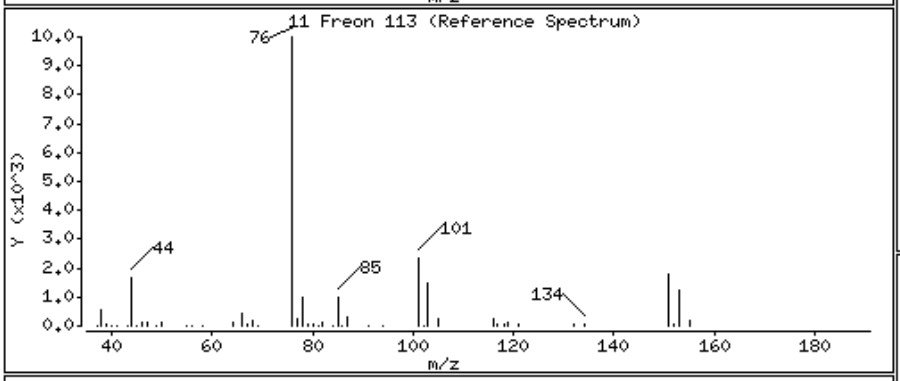
Purge Volume: 5.0 Operator: TMP

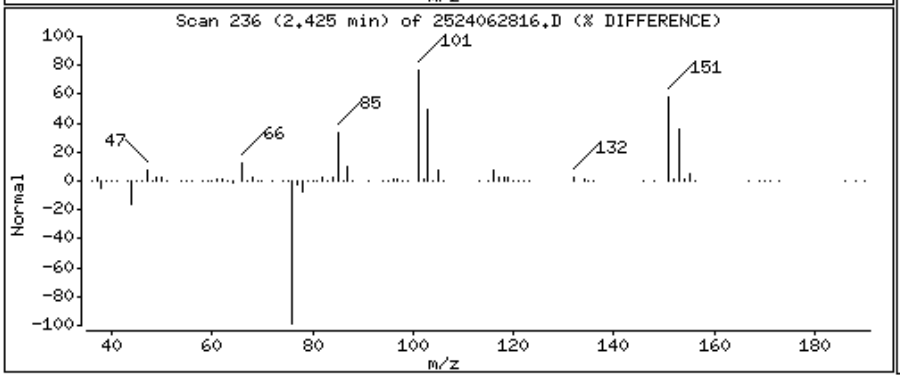
Column phase: DB-VRX Column diameter: 0.25

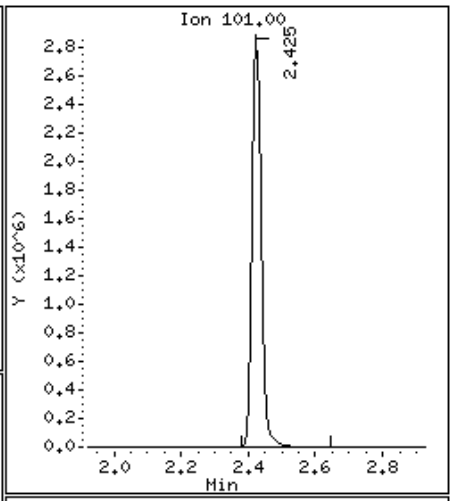
11 Freon 113 Concentration: 794.171 ug/L

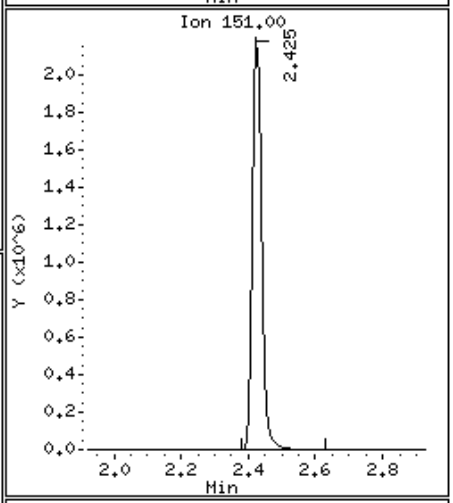


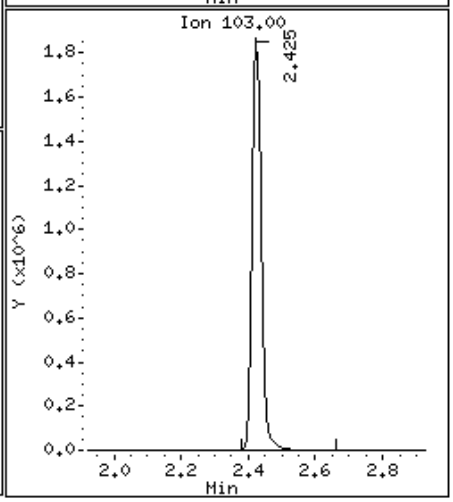












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 4

Date : 28-JUN-2024 15:09

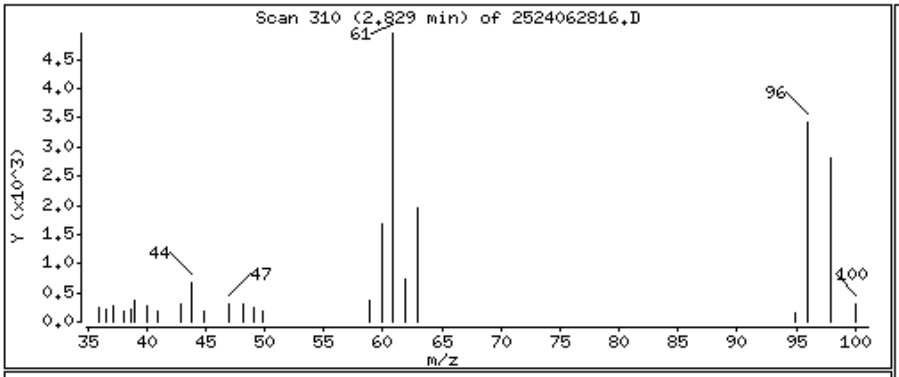
Client ID: ICT12B_062024 Instrument: ms25.i

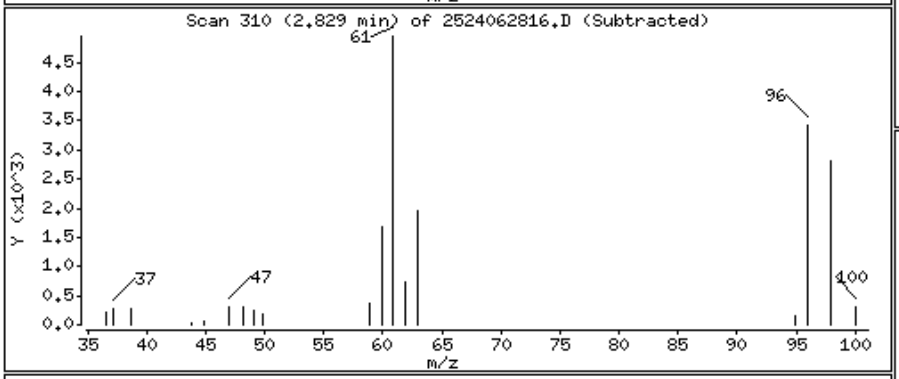
Sample Info: 3366026007;;1;;;;;

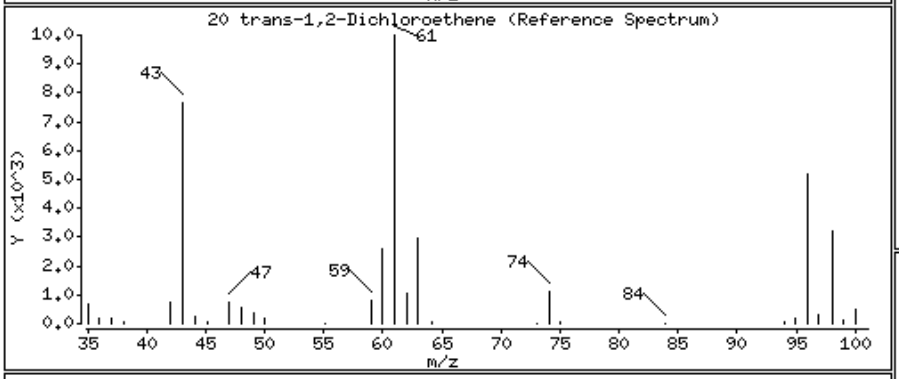
Purge Volume: 5.0 Operator: TMP

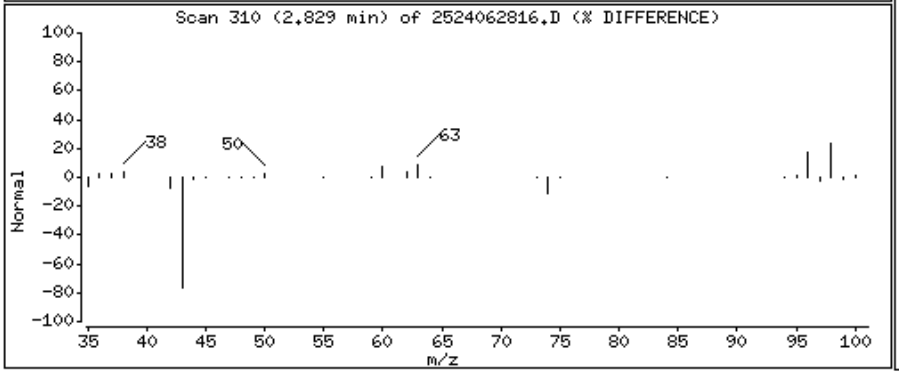
Column phase: DB-VRX Column diameter: 0.25

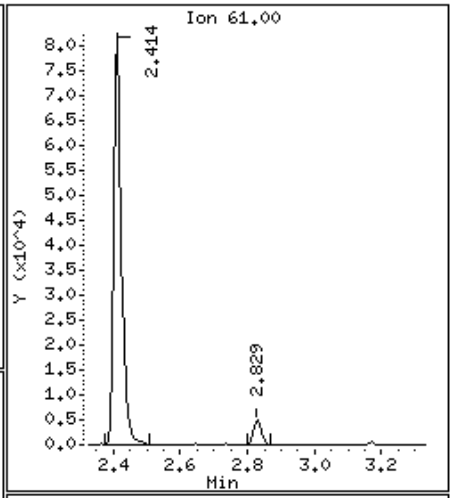
20 trans-1,2-Dichloroethene Concentration: 0.799693 ug/L

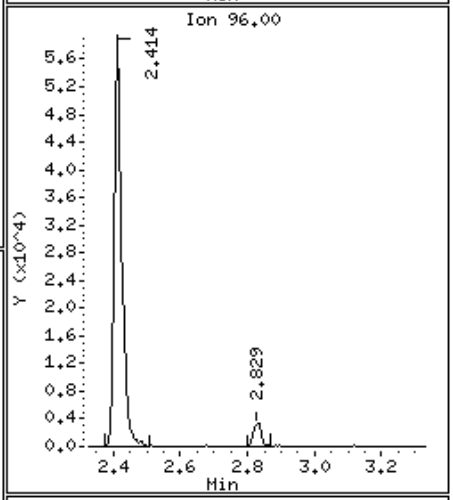


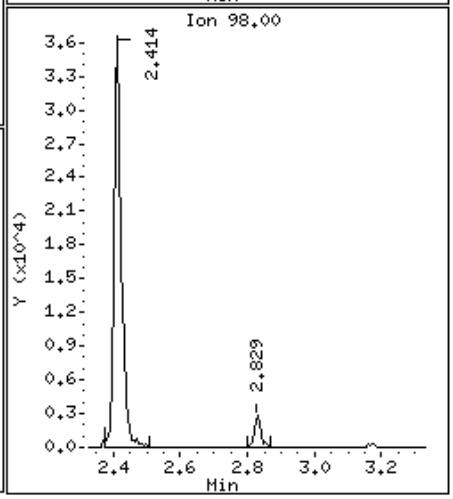












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 5

Date : 28-JUN-2024 15:09

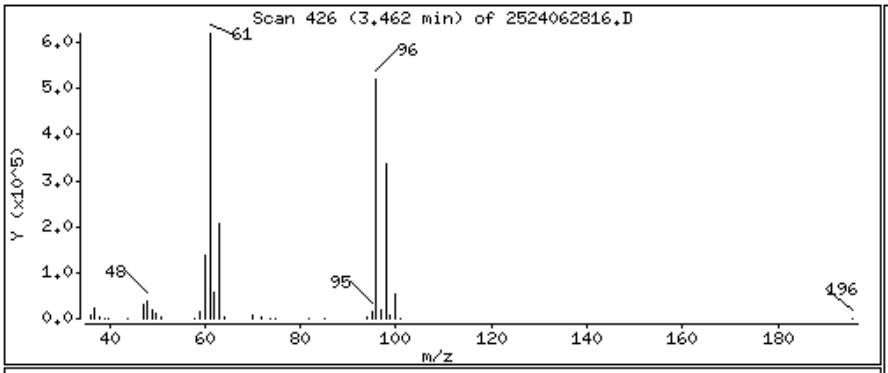
Client ID: ICT12B_062024 Instrument: ms25.i

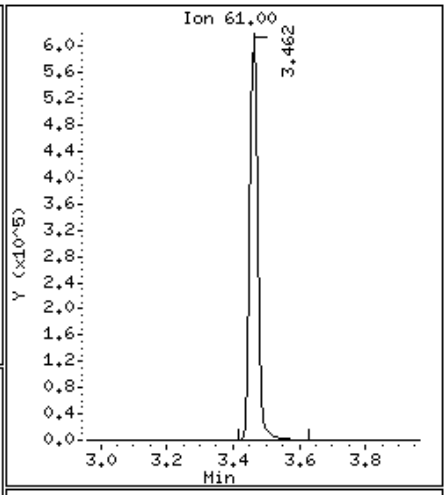
Sample Info: 3366026007;;1;;;;;

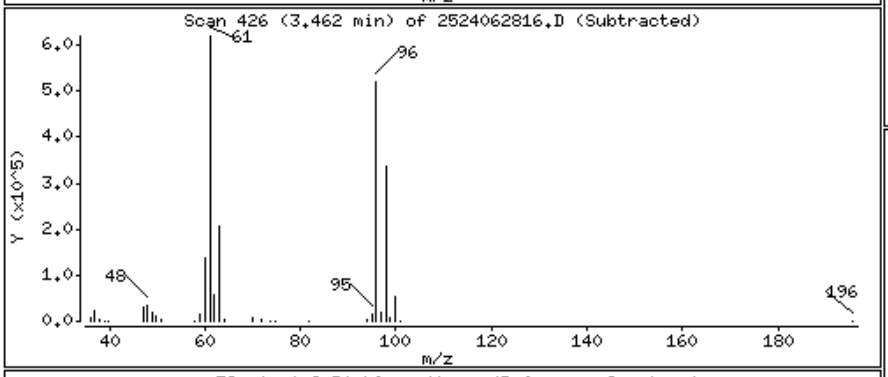
Purge Volume: 5.0 Operator: TMP

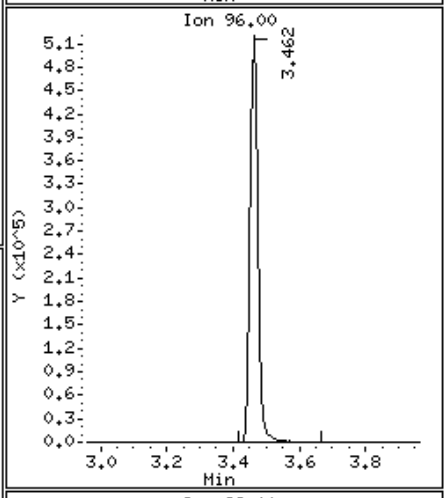
Column phase: DB-VRX Column diameter: 0.25

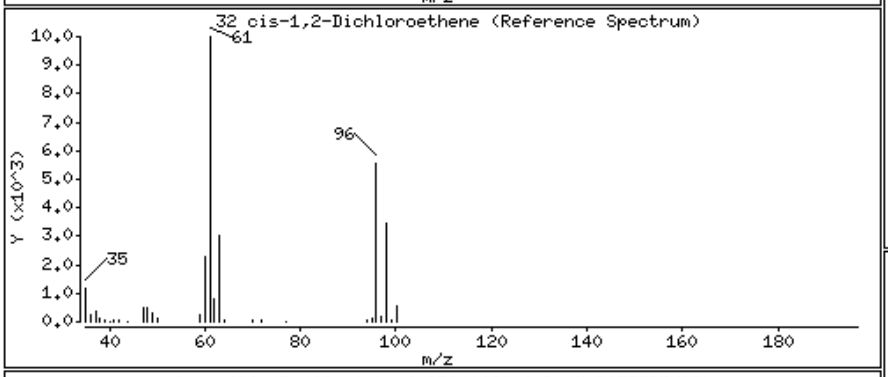
32 cis-1,2-Dichloroethene Concentration: 104.703 ug/L

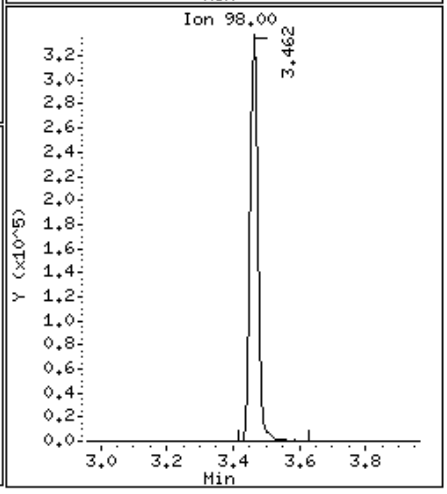


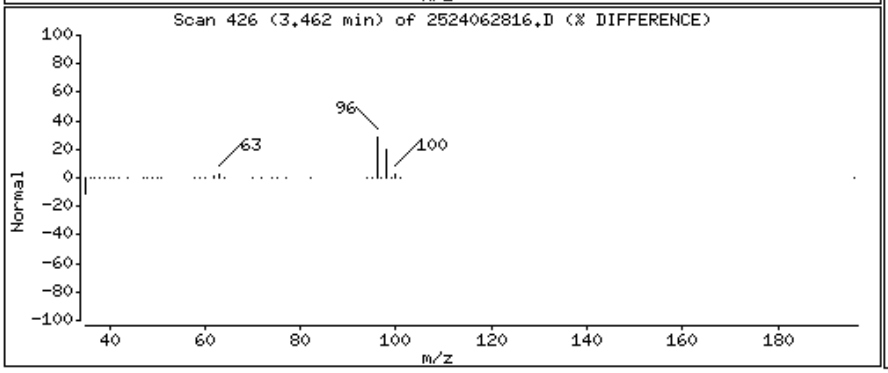












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 6

Date : 28-JUN-2024 15:09

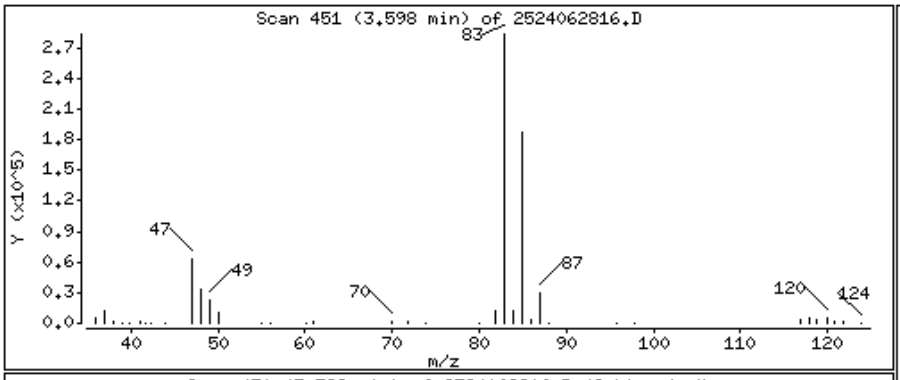
Client ID: ICT12B_062024 Instrument: ms25.i

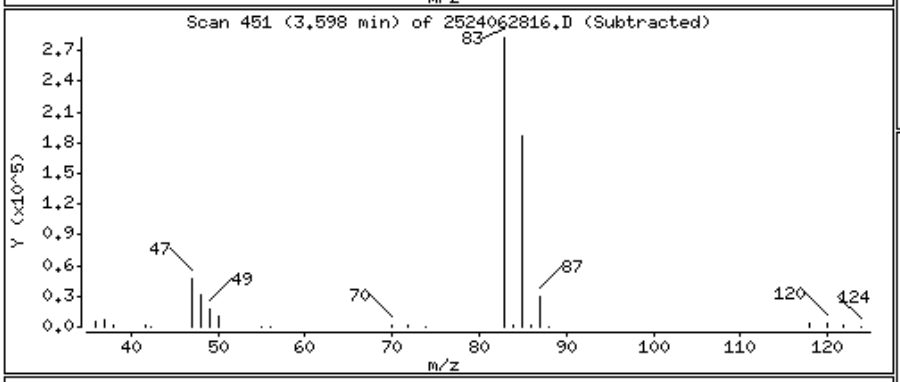
Sample Info: 3366026007;;1;;;;;

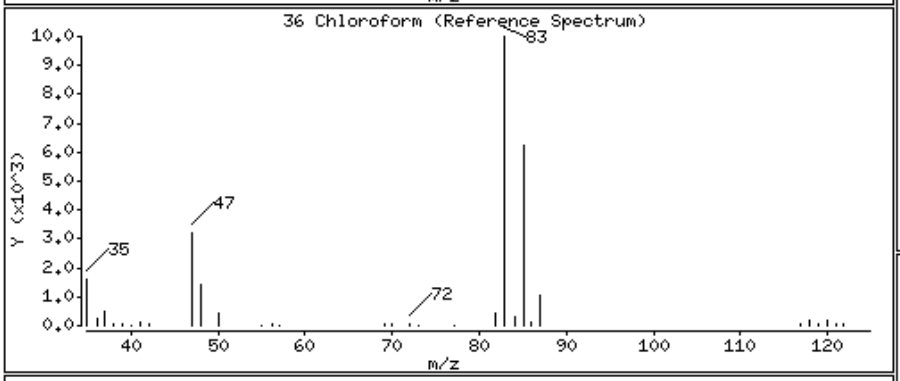
Purge Volume: 5.0 Operator: TMP

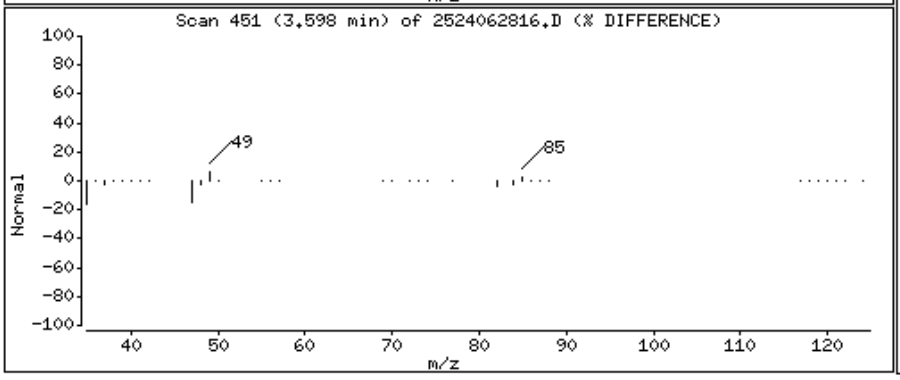
Column phase: DB-VRX Column diameter: 0.25

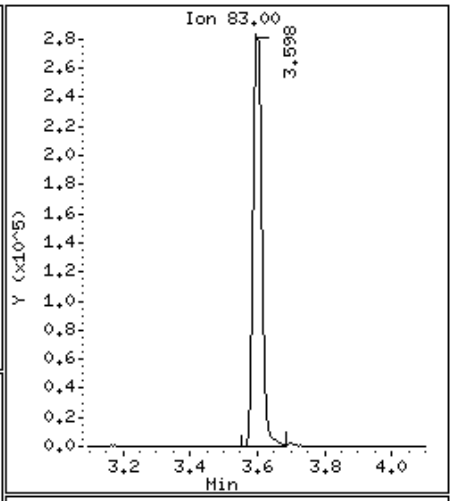
36 Chloroform Concentration: 35.3791 ug/L

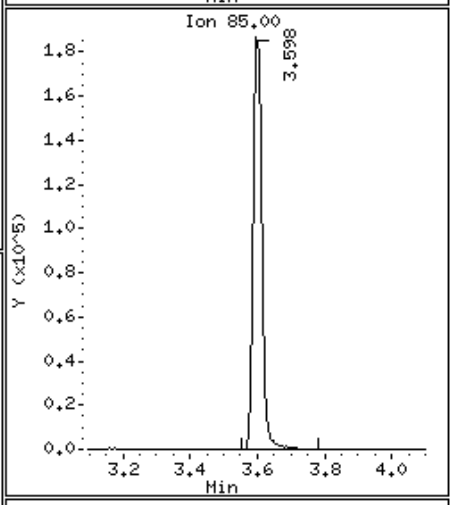


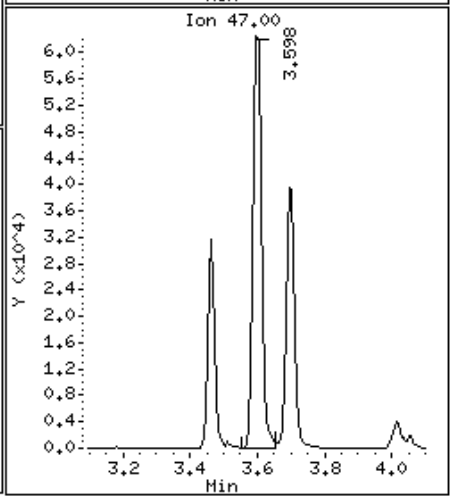












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 7

Date : 28-JUN-2024 15:09

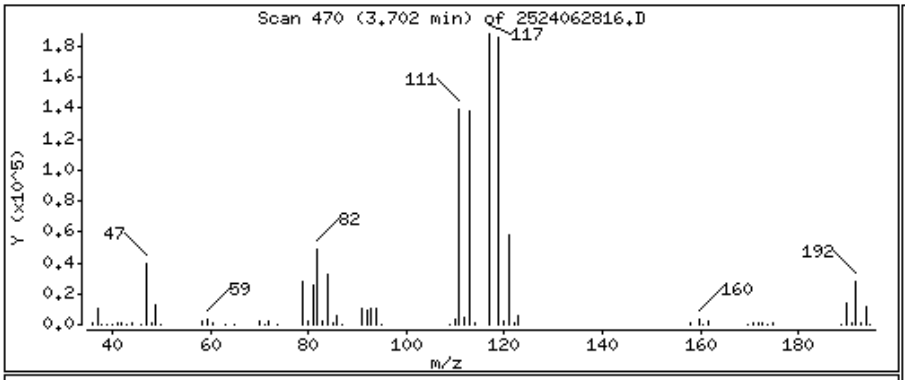
Client ID: ICT12B_062024 Instrument: ms25.i

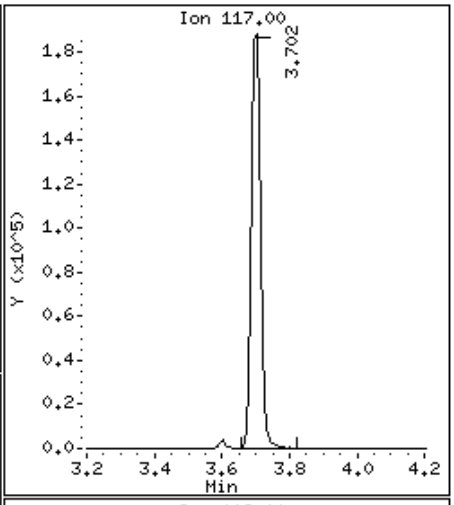
Sample Info: 3366026007;;1;;;;;

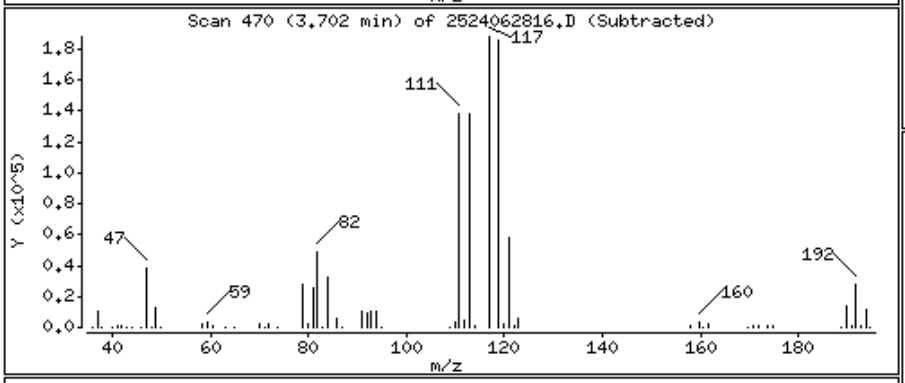
Purge Volume: 5.0 Operator: TMP

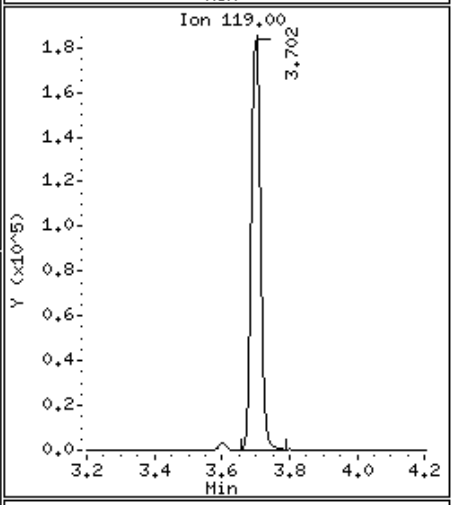
Column phase: DB-VRX Column diameter: 0.25

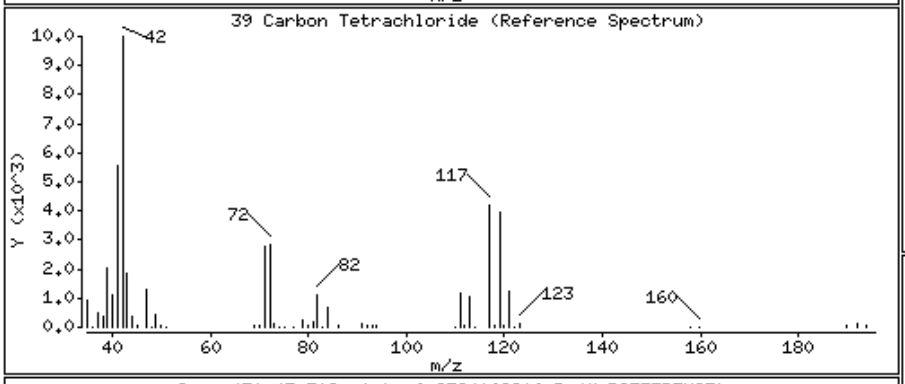
39 Carbon Tetrachloride Concentration: 34.2407 ug/L

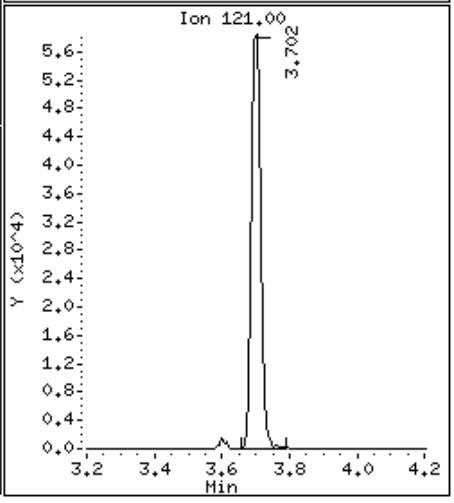


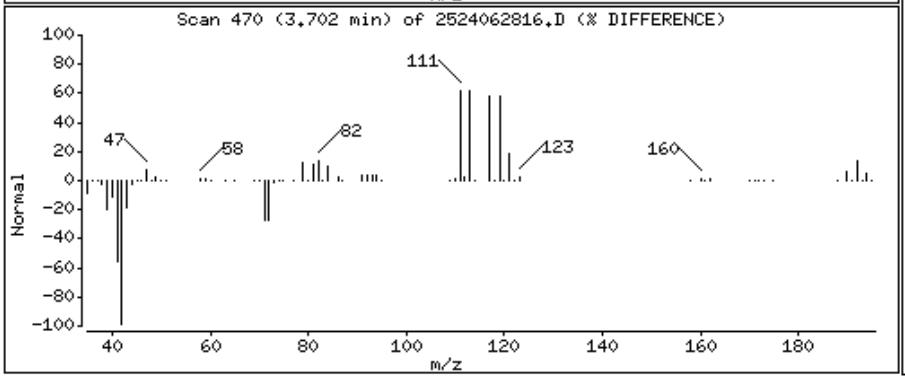












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 8

Date : 28-JUN-2024 15:09

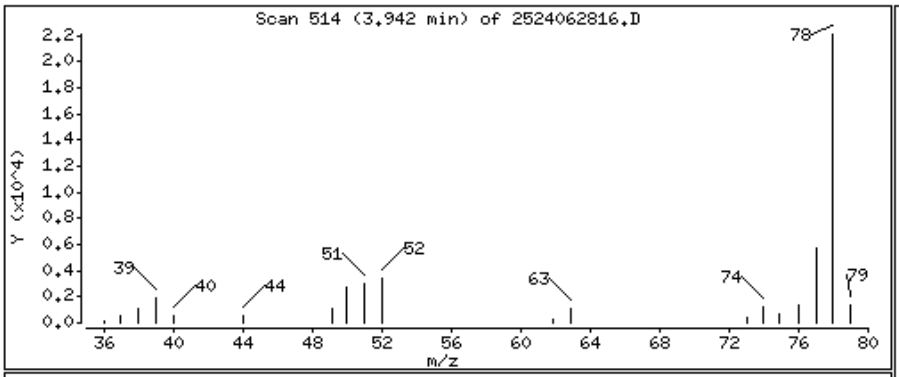
Client ID: ICT12B_062024 Instrument: ms25.i

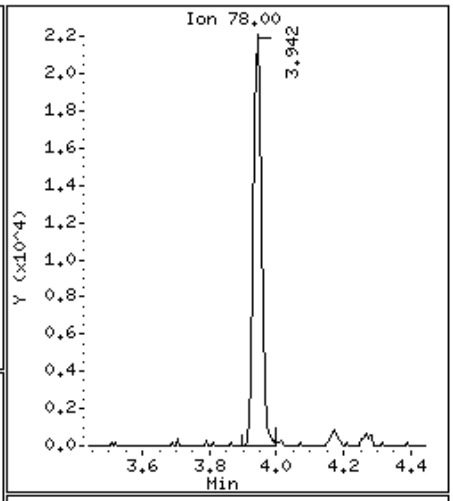
Sample Info: 3366026007;;1;;;;;

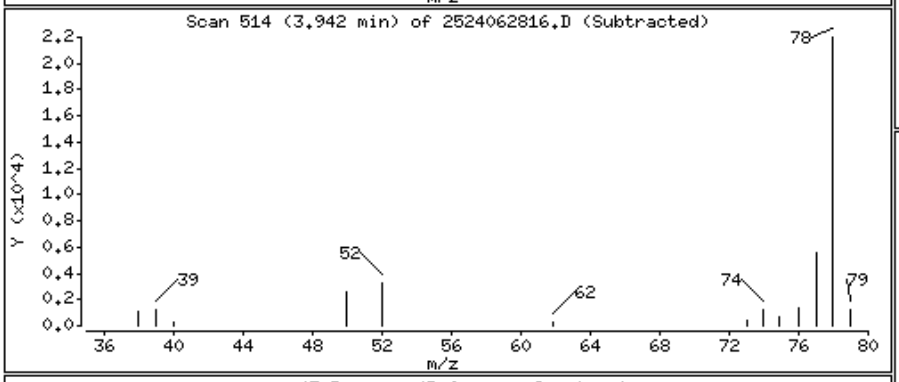
Purge Volume: 5.0 Operator: TMP

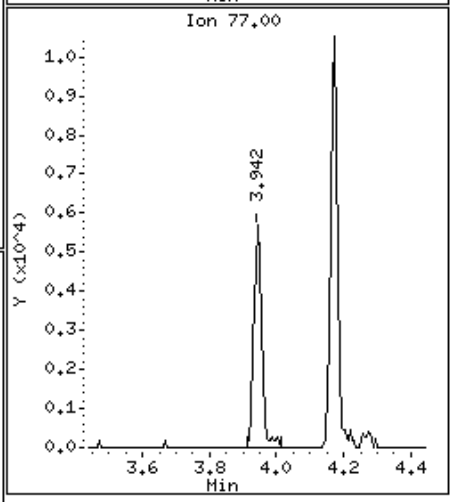
Column phase: DB-VRX Column diameter: 0.25

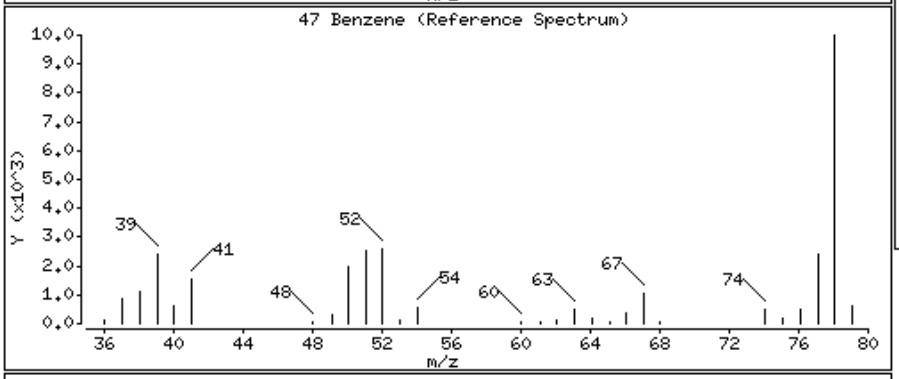
47 Benzene Concentration: 1.15310 ug/L

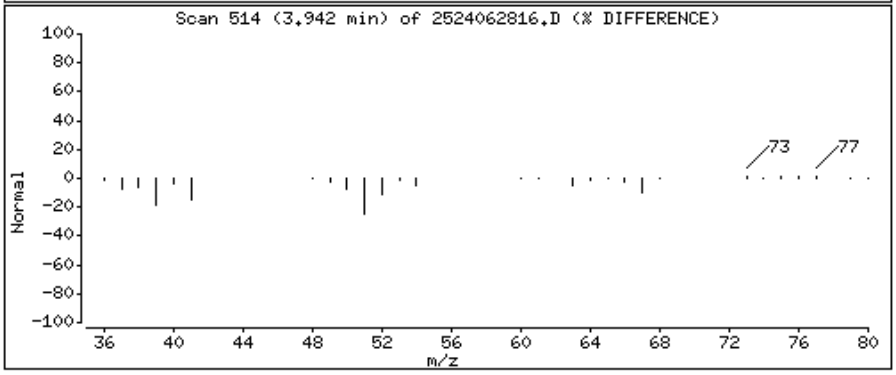












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 9

Date : 28-JUN-2024 15:09

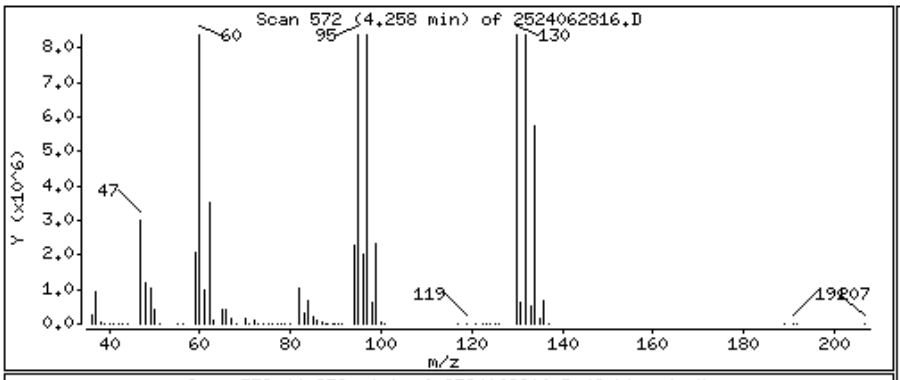
Client ID: ICT12B_062024 Instrument: ms25.i

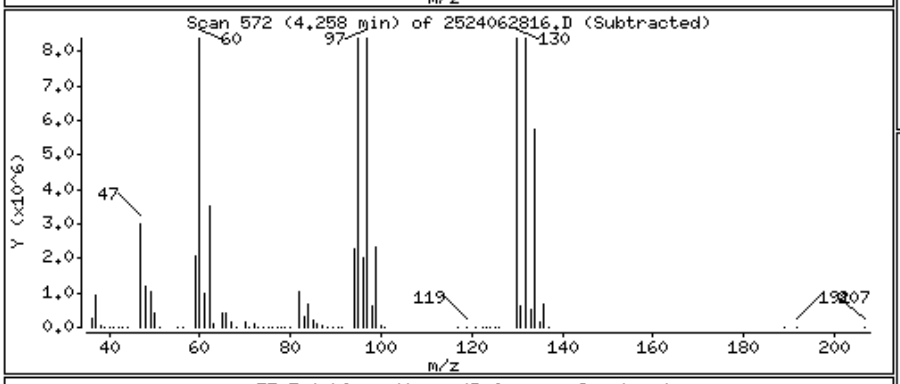
Sample Info: 3366026007;;1;;;;;

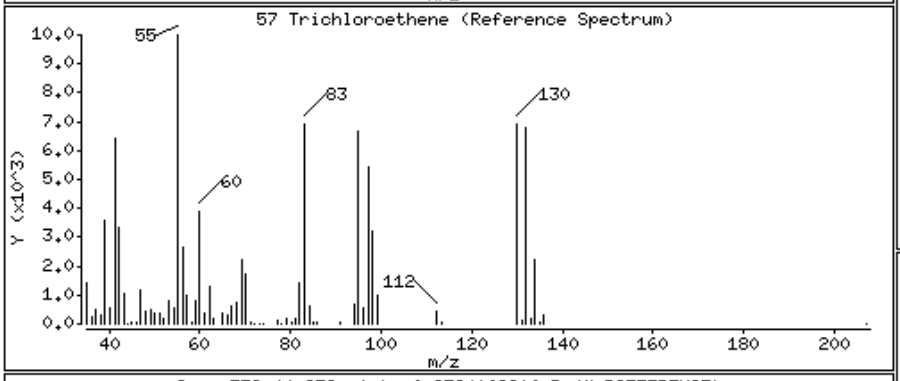
Purge Volume: 5.0 Operator: TMP

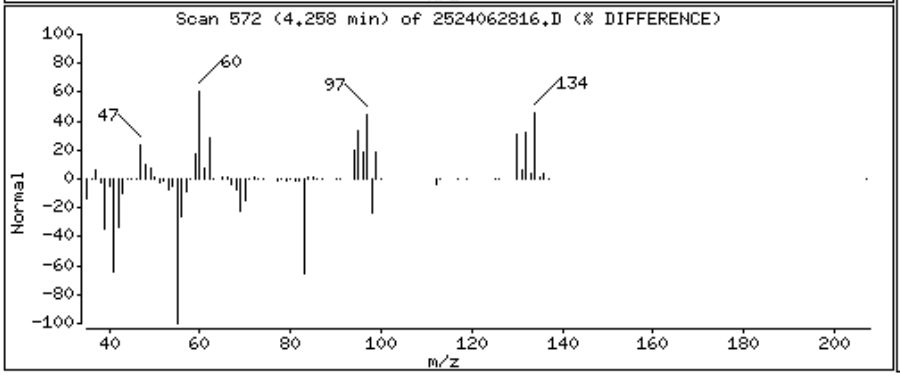
Column phase: DB-VRX Column diameter: 0.25

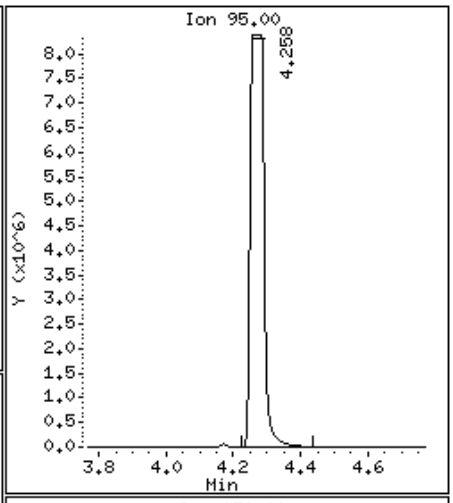
57 Trichloroethene Concentration: 3022.79 ug/L

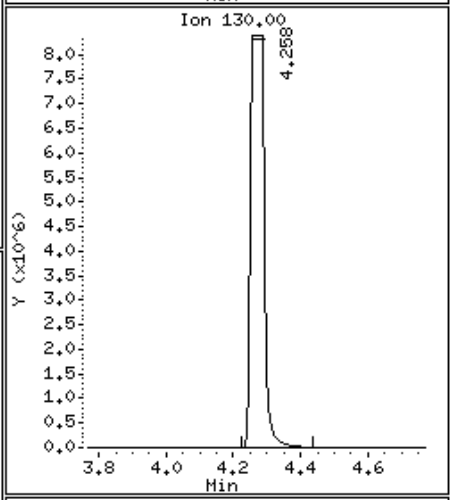


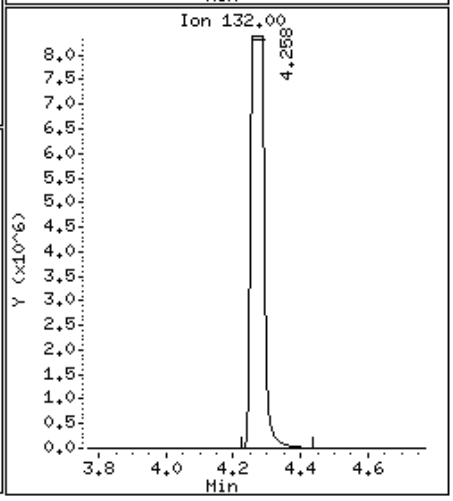












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062816.D Page 10

Date : 28-JUN-2024 15:09

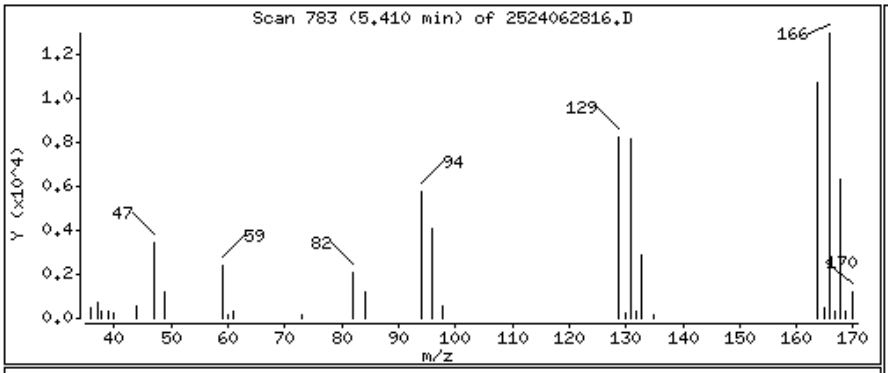
Client ID: ICT12B_062024 Instrument: ms25.i

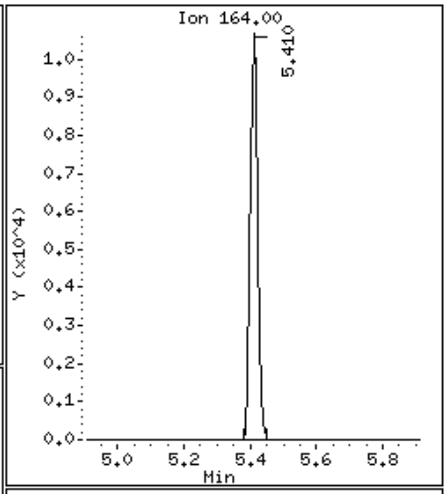
Sample Info: 3366026007;;1;;;;;

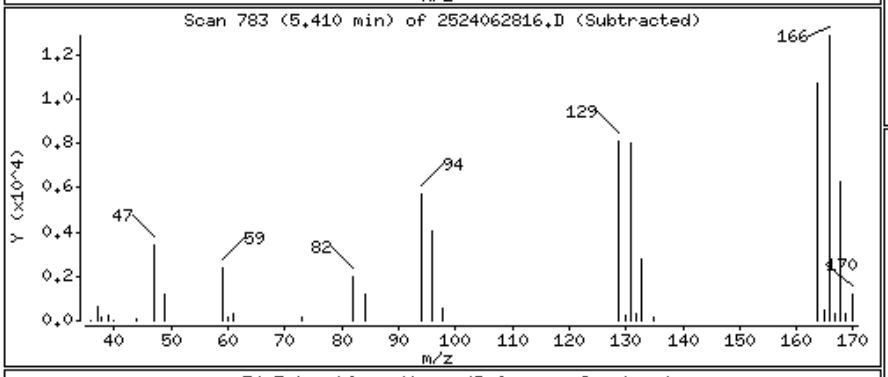
Purge Volume: 5.0 Operator: TMP

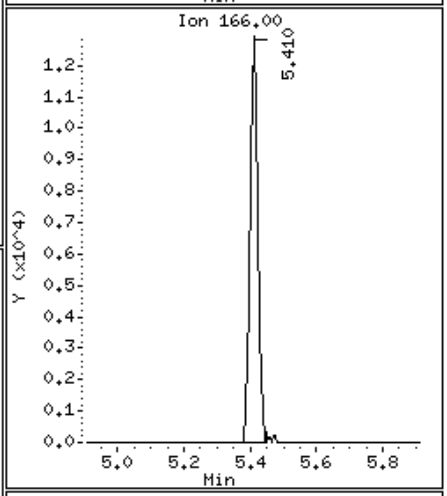
Column phase: DB-VRX Column diameter: 0.25

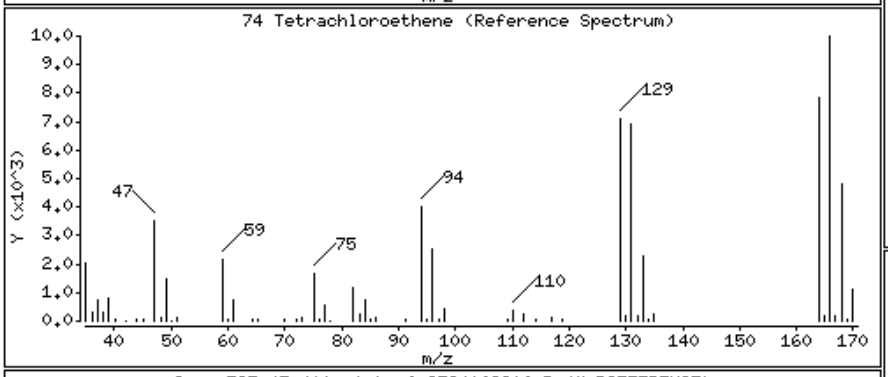
74 Tetrachloroethene Concentration: 2.37463 ug/L

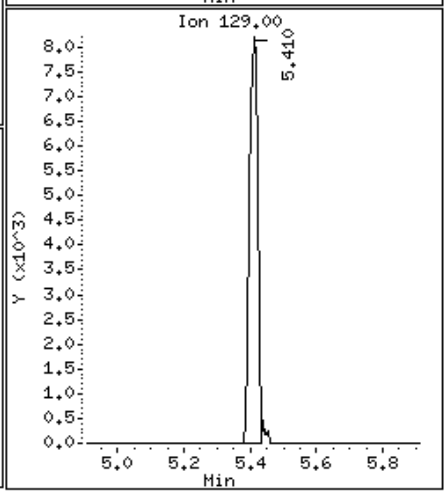


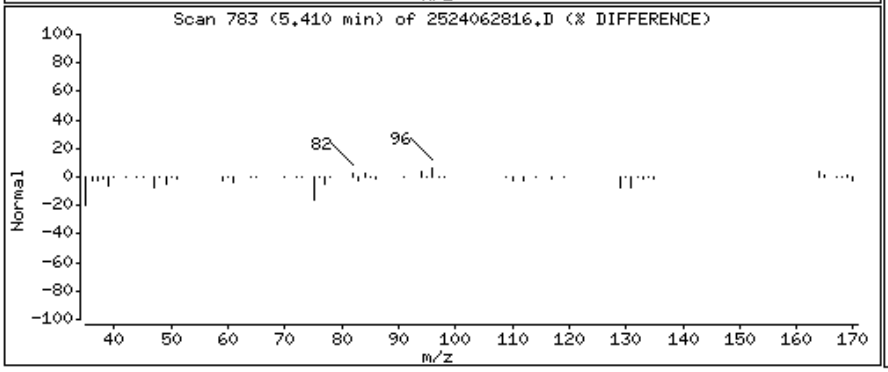












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NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

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Inj Date: 28-JUN-2024 15:09
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
Acetonitrile
Acrolein
tert-amyl methyl Ether
tert-Amyl Alcohol
tert-Amyl Ethylether
Bromodichloromethane
tert.- Butyl Alcohol
1-Chlorobutane
3-Chloro-1-propene
1,2-Dichloroethane
1,1-Dichloroethene
Dichlorofluoromethane
Ethyl Ether
Ethyl methacrylate
Heptane
Isobutyl alcohol
Methacrylonitrile
Methyl acetate
Methyl cyclohexane
Methylene Chloride
2-Nitropropane
1,1,1-Trichloroethane
Trichlorofluoromethane
Vinyl acetate

Data File: 2524062829.D Page 1
Report Date: 30-Jun-2024 15:02

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

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Operator : TMP Inst ID: ms25.i
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Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	476524	45.7071	45.7071	
2	Chloromethane	50	1.644	1.644	(0.394)	456530	50.1424	50.1424	
3	Vinyl Chloride	62	1.704	1.704	(0.409)	557838	47.3313	47.3313	
4	Bromomethane	94	1.922	1.922	(0.461)	324391	57.5689	57.5689	
5	Chloroethane	64	2.004	2.004	(0.481)	378630	47.5455	47.5455	
6	Pentane	41	2.092	2.092	(0.502)	284874	38.5449	38.5449	
7	Trichlorofluoromethane	101	2.097	2.097	(0.503)	739868	45.8306	45.8306	
8	Dichlorofluoromethane	67	2.124	2.124	(0.509)	740524	49.5748	49.5748	
9	Ethyl Ether	74	2.277	2.277	(0.546)	227654	50.1174	50.1174	
10	1,1-Dichloroethene	61	2.414	2.414	(0.579)	433428	47.8173	47.8173	
12	Carbon Disulfide	76	2.446	2.446	(0.587)	921041	47.1041	47.1041	
11	Freon 113	101	2.424	2.424	(0.581)	289522	45.4123	45.4123	
13	Iodomethane	127	2.512	2.506	(0.602)	159468	45.4279	45.4279	
14	Acrolein	56	2.599	2.599	(0.623)	336100	229.881	229.881	
16	3-Chloro-1-propene	41	2.681	2.681	(0.643)	369383	46.7782	46.7782	
15	Isopropyl Alcohol	45	2.654	2.654	(0.636)	118651	248.249	248.249	
17	Methylene Chloride	84	2.741	2.741	(0.657)	362333	48.9370	48.9370	
18	Acetone	58	2.752	2.752	(0.660)	193216	235.539	235.539	
19	Methyl acetate	74	2.812	2.817	(0.674)	78558	46.5922	46.5922	
20	trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	438926	49.4406	49.4406	
21	Hexane	57	2.866	2.866	(0.687)	628444	42.5120	42.5120	

Data File: 2524062829.D
Report Date: 30-Jun-2024 15:02

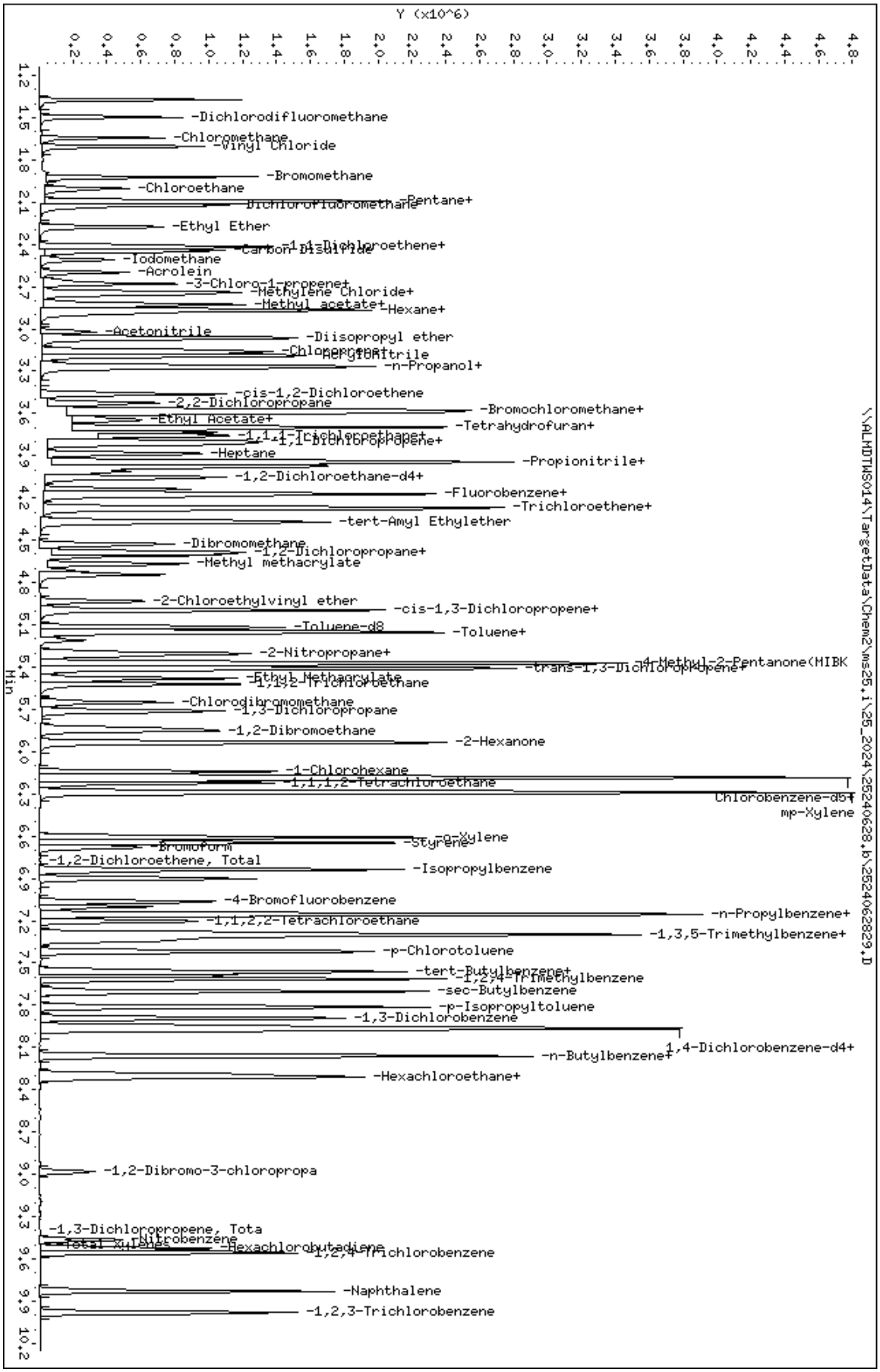
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1071642	47.0650	47.0650	
	23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	206316	251.940	251.940	
	24 Acetonitrile	41	3.019	3.019	(0.724)	249065	271.520	271.520	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1049010	53.2408	53.2408	
	26 Chloroprene	53	3.156	3.156	(0.757)	526396	52.6964	52.6964	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	629854	52.0754	52.0754	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	839842	266.618	266.618	
	30 n-Propanol	41	3.265	3.265	(0.783)	196020	504.987	504.987	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1118143	53.4320	53.4320	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	89926	43.6073	43.6073(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	461210	51.2360	51.2360	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	381332	39.5579	39.5579	
M	100 1,2-Dichloroethene, Total	61				900136	100.677	100.677	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	200996	51.7777	51.7777	
	35 Cyclohexane	84	3.587	3.592	(0.860)	508413	47.0711	47.0711	
	36 Chloroform	83	3.598	3.598	(0.863)	670981	51.3886	51.3886	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	375369	47.9422	47.9422	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	377885	52.1320	52.1320	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	425710	44.3751	44.3751(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	578215	260.929	260.929	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	209520	28.1823	28.1823	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	516738	50.8452	50.8452	
	43 2-Butanone	72	3.761	3.761	(0.902)	265334	247.684	247.684(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	469934	48.8839	48.8839	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	301187	48.7194	48.7194	
	46 Heptane	71	3.887	3.887	(0.932)	215873	38.6515	38.6515	
	48 Propionitrile	54	3.941	3.941	(0.945)	329429	276.176	276.176	
	47 Benzene	78	3.941	3.941	(0.945)	1446292	48.9476	48.9476	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	188826	52.8076	52.8076	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1074915	53.2128	53.2128	
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	260324	33.2171	33.2171	
	54 Isobutyl alcohol	42	3.990	3.985	(0.957)	121962	669.056	669.056(Q)	
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	463933	49.9465	49.9465	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	153589	244.452	244.452	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	942225	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	821093	44.8583	44.8583	
	57 Trichloroethene	95	4.269	4.269	(1.024)	355017	47.4738	47.4738	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	550069	44.3755	44.3755	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	836182	47.5019	47.5019	
	60 Dibromomethane	93	4.525	4.525	(1.085)	244768	51.7755	51.7755	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	372299	52.3518	52.3518	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	450237	45.5497	45.5497	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	302498	53.7466	53.7466	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	238328	45.8236	45.8236	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	567120	43.9005	43.9005	
	67 Octane	85	5.000	5.000	(0.810)	180194	38.3388	38.3388	
$	68 Toluene-d8	98	5.114	5.120	(0.829)	835520	27.6150	27.6150	
	69 Toluene	92	5.153	5.153	(0.835)	858364	44.7604	44.7604	
	70 Chloroacetonitrile	75	5.207	5.213	(0.844)	118069	246.977	246.977	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	472406	224.832	224.832	
	72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	44432	218.793	218.793(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	1896985	250.489	250.489	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	520501	43.5154	43.5154	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	331283	47.4416	47.4416	

Data File: 2524062829.D
Report Date: 30-Jun-2024 15:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	537352	46.5111	46.5111	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	288637	48.9880	48.9880	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	362794	43.4851	43.4851	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	587376	50.4563	50.4563	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	356010	45.4159	45.4159	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1274042	245.242	245.242	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	469930	46.5805	46.5805	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	382152	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	497347	43.5094	43.5094	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	928765	47.5253	47.5253	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	325454	44.1445	44.1445	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1182450	87.0549	87.0549	
M	120 1,3-Dichloropropene, Total	75				1087621	87.4159	87.4159	
	88 o-Xylene	106	6.610	6.610	(1.071)	577425	44.4001	44.4001	
	89 Styrene	104	6.648	6.648	(0.836)	932750	48.8613	48.8613	
	90 Bromoform	173	6.680	6.680	(0.840)	239570	44.4634	44.4634	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1301392	48.9014	48.9014	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	262926	29.4423	29.4423	
M	121 TOTAL XYLENES	106				1759875	131.455	131.455	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	396133	50.7584	50.7584	
	93 Bromobenzene	156	7.155	7.155	(0.900)	389157	50.9900	50.9900	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	417109	54.9865	54.9865	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1118950	51.5170	51.5170	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1080859	52.6401	52.6401	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	129851	53.0742	53.0742	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	110229	47.3695	47.3695	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	978055	52.5878	52.5878	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	274430	52.8285	52.8285	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	225745	43.3149	43.3149(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1122954	48.8222	48.8222	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1424919	53.0807	53.0807	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	318897	51.8753	51.8753	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	659391	51.2832	51.2832	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	322801	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	682826	50.9482	50.9482	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	281265	48.9601	48.9601(Q)	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	97200	30.4434	30.4434(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	209993	45.6209	45.6209	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	641643	52.3882	52.3882	
	114 1,2-Dibromo-3-chloropropane	75	8.978	8.983	(1.129)	67946	46.8626	46.8626	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	212100	451.116	451.116	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	173297	42.8044	42.8044	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	406711	50.1434	50.1434	
	118 Naphthalene	128	9.829	9.829	(1.236)	1109774	46.5708	46.5708	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	406481	44.6345	44.6345	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Operator: THP
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Inj Date : 28-JUN-2024 19:34
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LabSampID : 1801

2-Butanone (78-93-3)

Reason Code: MP

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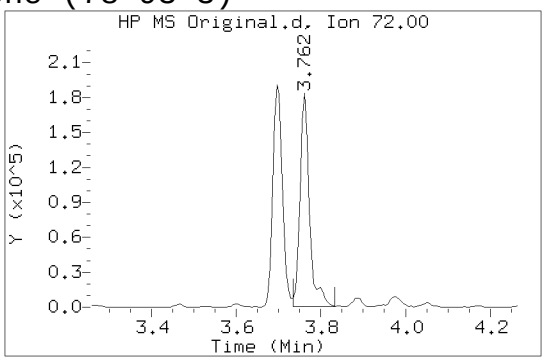
29-Jun-2024
10:34



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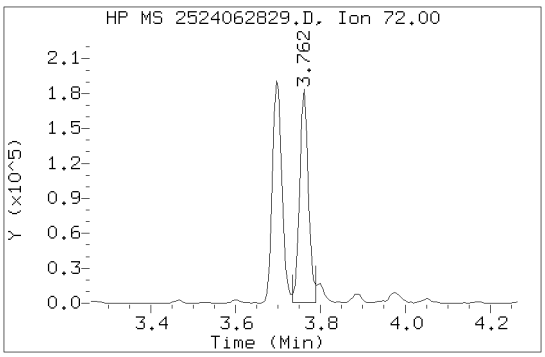

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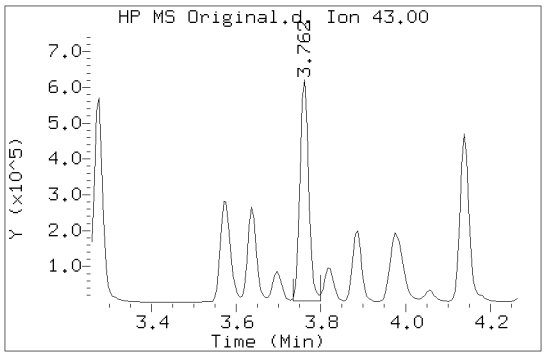

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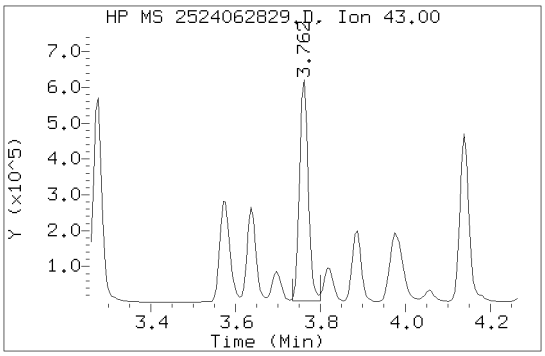

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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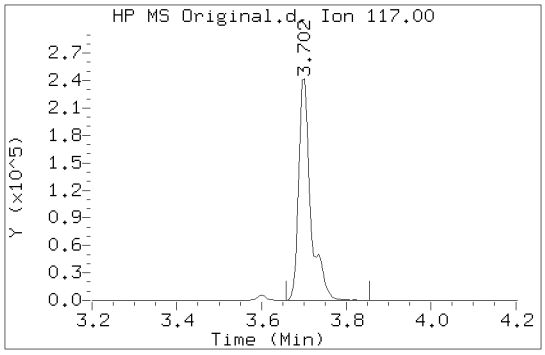

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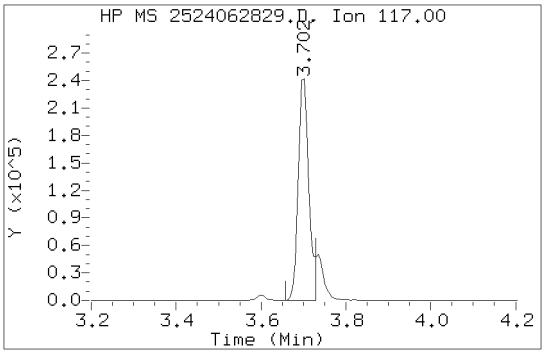

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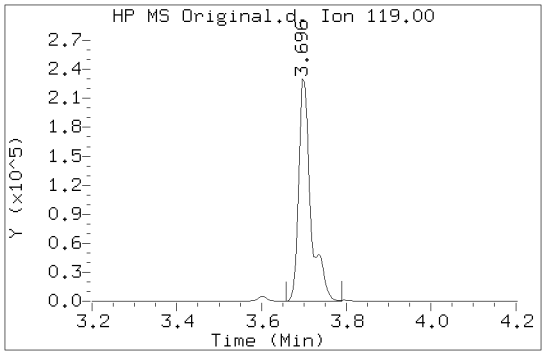
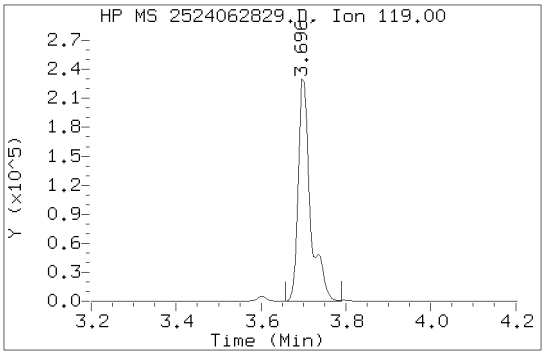


AFTER
MASS
119
AREA
460857
HEIGHT
230080
30-Jun-2024
15:02



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Inj Date : 28-JUN-2024 19:34
InstruID : ms25.i
LabSampID : 1801

Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE

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148990
HEIGHT
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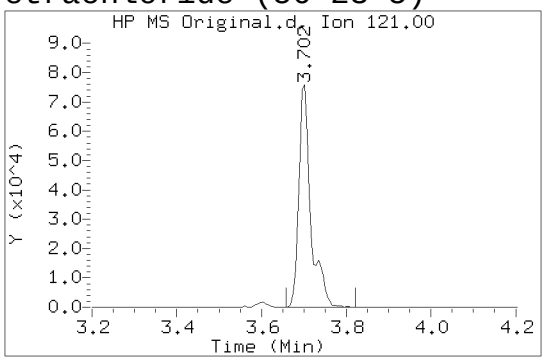
29-Jun-2024
10:34



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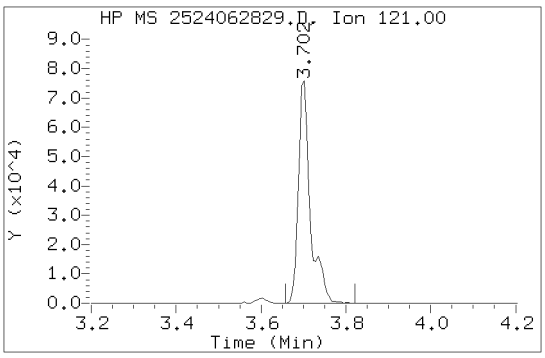
30-Jun-2024
15:02



Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE

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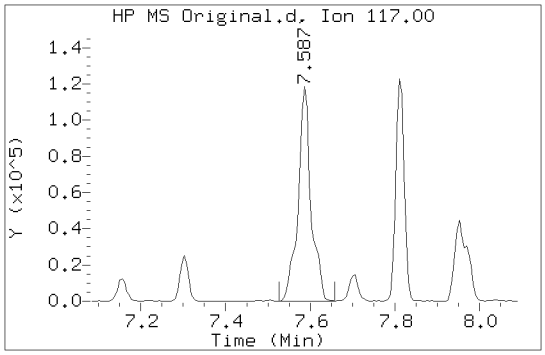
29-Jun-2024
10:34



AFTER

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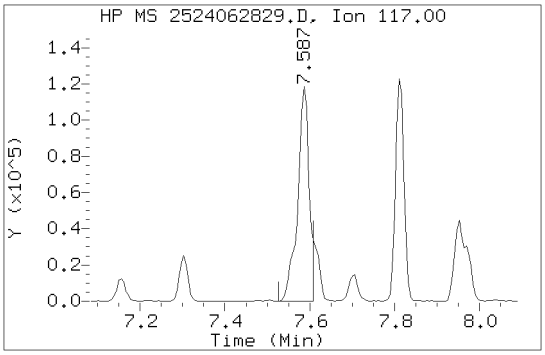

BEFORE

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AREA
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HEIGHT
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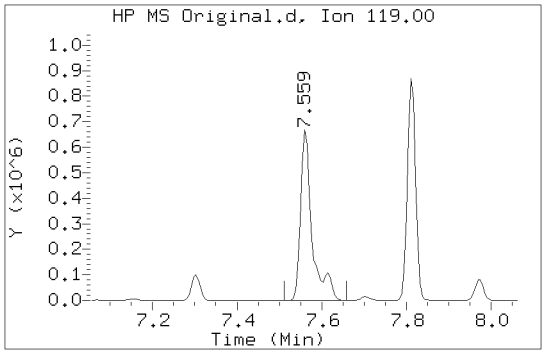
29-Jun-2024
10:34



AFTER

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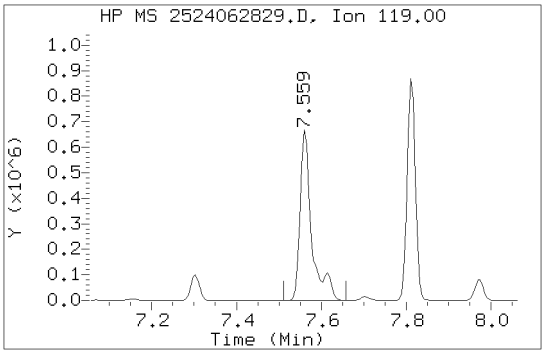
30-Jun-2024
15:02



BEFORE

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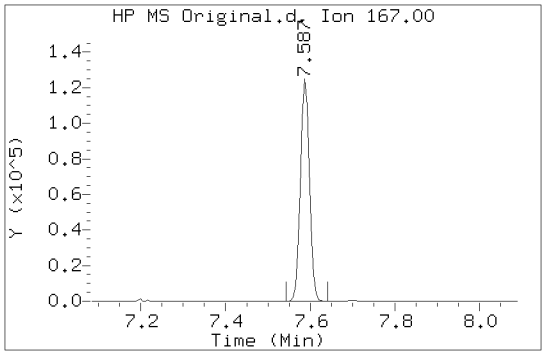
29-Jun-2024
10:34



AFTER

MASS
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AREA
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HEIGHT
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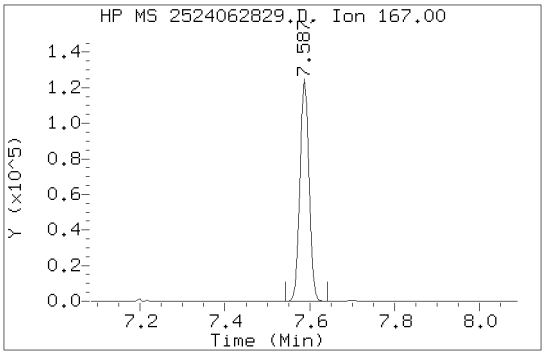
30-Jun-2024
15:02



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:02
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406282
Inj Date: 28-JUN-2024 19:34
Operator: TMP

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 25240701

Volatiles by EPA 8260D

Workorder

3366026

Client

ALS Houston

Project

AHH130|HS24061330

07/10/2024

www.alsglobal.com

Data File: 2524070100.D Page 1
Report Date: 01-Jul-2024 18:36

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070100.D
Lab Smp Id: 1000
Inj Date : 01-JUL-2024 08:32
Operator : TMP Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms 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: ALMDTW7060

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	1.000	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		
7.057	8.129	(0.000)	95	84720			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	14263			15.00- 40.00	16.84
7.057	8.129	(0.000)	75	39352			30.00- 60.00	46.45
7.057	8.129	(0.000)	96	6190			5.00- 9.00	7.31
7.057	8.129	(0.000)	173	919			0.00- 2.00	1.19
7.057	8.129	(0.000)	174	77184			50.00- 0.00	91.10
7.057	8.129	(0.000)	175	6668			5.00- 9.00	8.64
7.057	8.129	(0.000)	176	74088			95.00- 101.00	95.99
7.057	8.129	(0.000)	177	4914			5.00- 9.00	6.63

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.84
75	30.00 - 60.00% of mass 95	46.45
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	1.08 (1.19)
174	Greater than 50.00% of mass 95	91.10
175	5.00 - 9.00% of mass 174	7.87 (8.64)
176	95.00 - 101.00% of mass 174	87.45 (95.99)
177	5.00 - 9.00% of mass 176	5.80 (6.63)

Data File: 2524070100.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	567	62.00	3738	88.00	3493	137.00	239
37.00	2984	63.00	2652	91.00	479	141.00	897
38.00	3366	64.00	294	92.00	2391	142.00	133
39.00	1360	67.00	212	93.00	3823	143.00	939
43.00	58	68.00	8056	94.00	10484	146.00	158
44.00	312	69.00	7814	95.00	84720	148.00	185
45.00	893	70.00	723	96.00	6190	155.00	75
47.00	1014	72.00	424	104.00	464	157.00	82
48.00	460	73.00	3731	105.00	61	159.00	171
49.00	3132	74.00	13524	106.00	374	172.00	375
50.00	14263	75.00	39352	107.00	132	173.00	919
51.00	4094	76.00	3431	115.00	286	174.00	77184
52.00	236	77.00	469	116.00	118	175.00	6668
55.00	307	78.00	486	117.00	638	176.00	74088
56.00	1086	79.00	2701	118.00	284	177.00	4914
57.00	2251	80.00	567	119.00	722	178.00	189
58.00	50	81.00	2625	128.00	459	207.00	62
59.00	63	82.00	600	129.00	160	211.00	145
60.00	1003	83.00	115	130.00	374		
61.00	3794	87.00	4168	135.00	161		

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070100.D

Date : 01-JUL-2024 08:32

Client ID:

Instrument: ms25.i

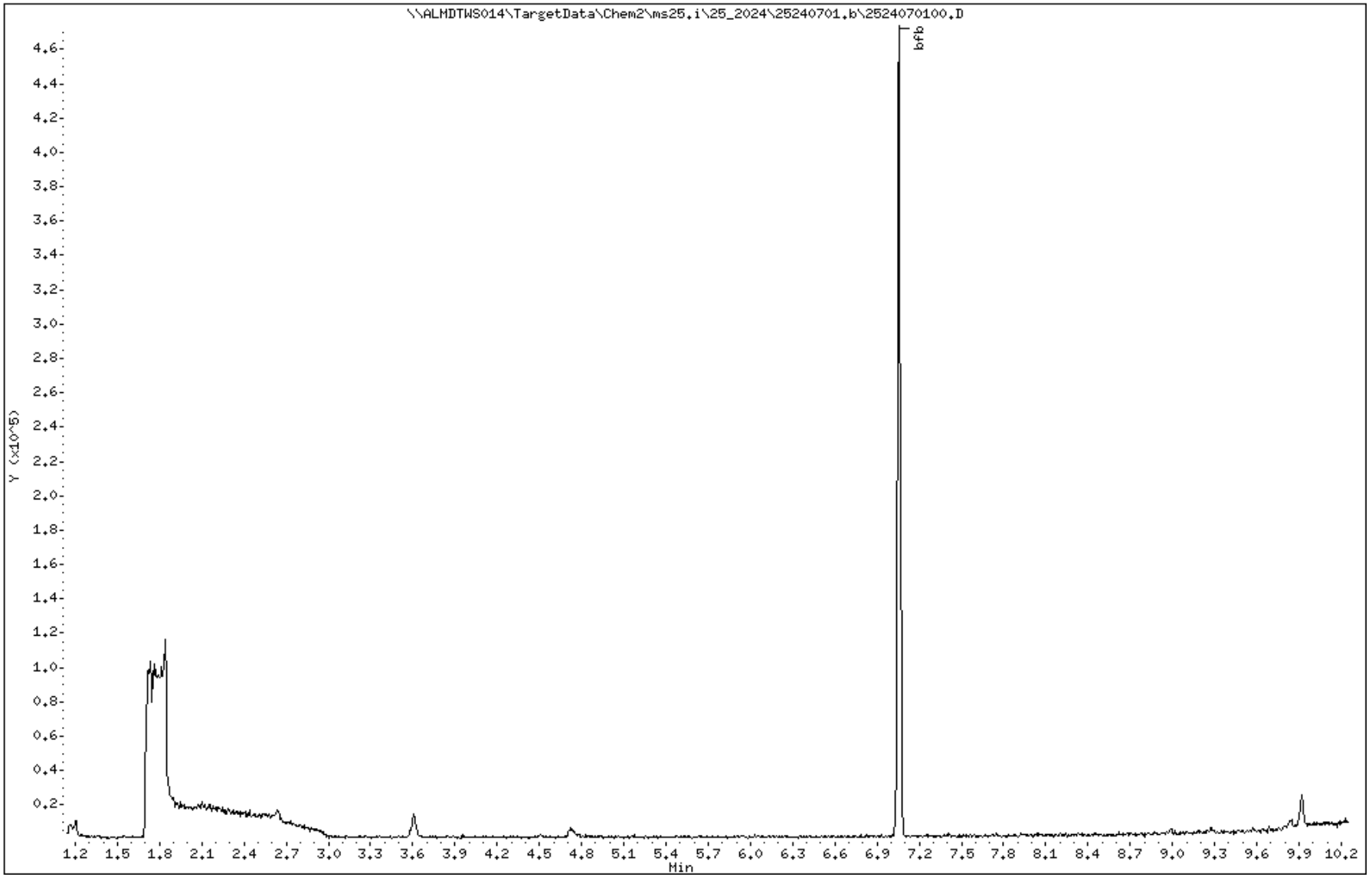
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: TMP

Column phase: DB624

Column diameter: 0.53



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Inj Date : 01-JUL-2024 08:32
InstruID : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524070101.D Page 1
Report Date: 02-Jul-2024 13:09

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070101.D
Lab Smp Id: 1800
Inj Date : 01-JUL-2024 09:22
Operator : TMP Inst ID: ms25.i
Smp Info : 1800;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	530498	50.0000	43.2758	
2	Chloromethane	50	1.644	1.644	(0.394)	486905	50.0000	45.4715	
3	Vinyl Chloride	62	1.704	1.704	(0.409)	622999	50.0000	44.9562	
4	Bromomethane	94	1.922	1.922	(0.461)	342260	50.0000	51.6129	
5	Chloroethane	64	2.004	2.004	(0.481)	426132	50.0000	45.4962	
6	Pentane	41	2.091	2.091	(0.502)	289216	50.0000	33.1367	
7	Trichlorofluoromethane	101	2.097	2.097	(0.503)	873940	50.0000	46.0411	
8	Dichlorofluoromethane	67	2.124	2.124	(0.509)	845787	50.0000	48.1554	
9	Ethyl Ether	74	2.277	2.277	(0.546)	270898	50.0000	50.7203	
10	1,1-Dichloroethene	61	2.413	2.413	(0.579)	498868	50.0000	46.8076	
12	Carbon Disulfide	76	2.446	2.446	(0.587)	1047558	50.0000	45.5639	
11	Freon 113	101	2.424	2.424	(0.581)	343421	50.0000	45.8122	
13	Iodomethane	127	2.506	2.506	(0.601)	200914	50.0000	48.6402	
14	Acrolein	56	2.599	2.599	(0.623)	414850	250.000	241.317	
16	3-Chloro-1-propene	41	2.681	2.681	(0.643)	417175	50.0000	44.9380	
15	Isopropyl Alcohol	45	2.648	2.648	(0.635)	131113	250.000	233.114	
17	Methylene Chloride	84	2.741	2.741	(0.657)	443473	50.0000	50.9401	
18	Acetone	58	2.752	2.752	(0.660)	230935	250.000	239.426	
19	Methyl acetate	74	2.812	2.812	(0.674)	96765	50.0000	48.8295	
20	trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	512374	50.0000	49.0842	
21	Hexane	57	2.866	2.866	(0.687)	763700	50.0000	43.9469	
22	Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1297117	50.0000	48.4428	

Data File: 2524070101.D
Report Date: 02-Jul-2024 13:09

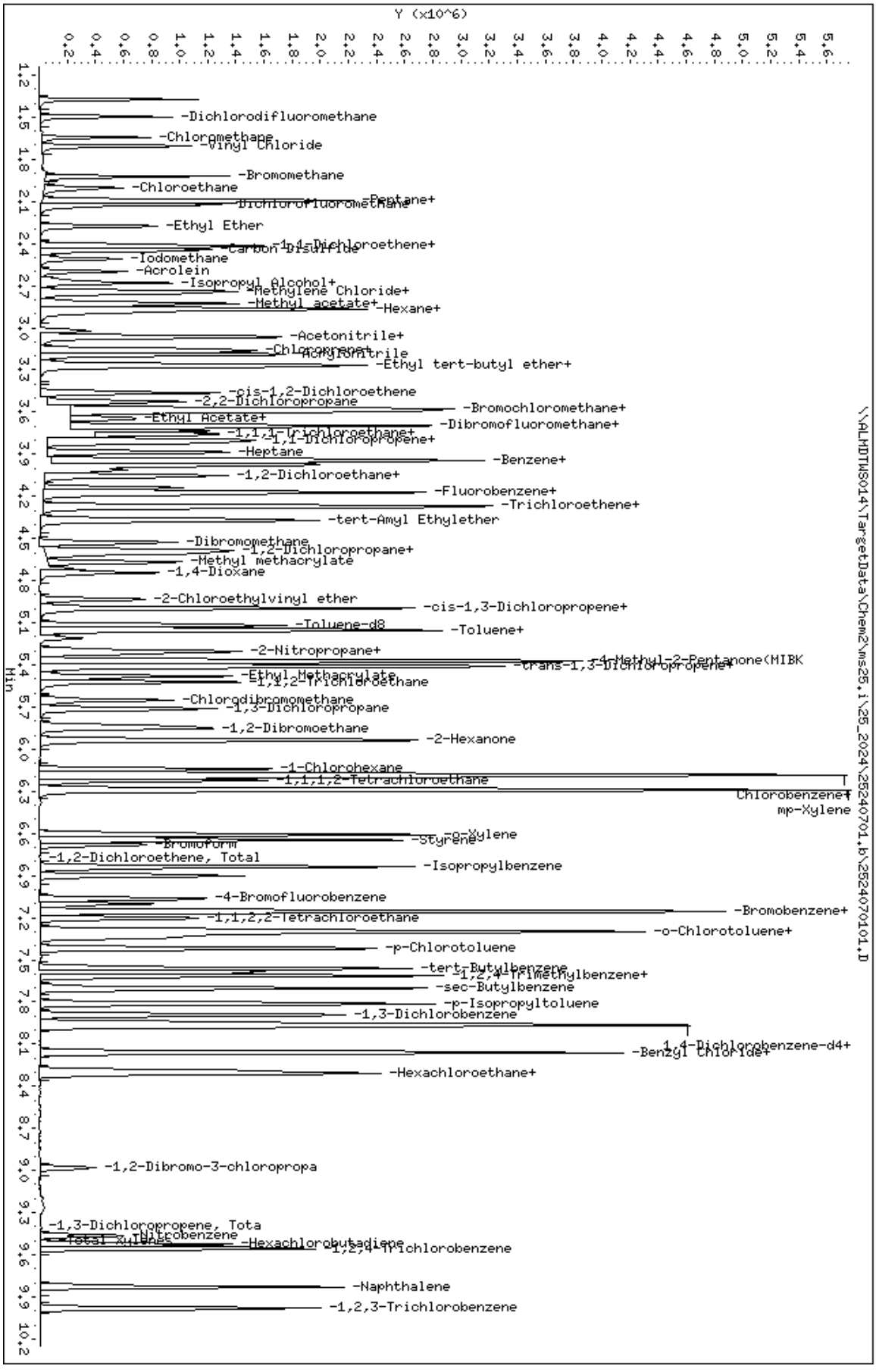
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	244084	250.000	253.493	
24 Acetonitrile	41	3.019	3.019	(0.724)	274070	250.000	254.105	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	1176758	50.0000	50.7943	
26 Chloroprene	53	3.155	3.155	(0.757)	594387	50.0000	50.6058	
27 1,1-Dichloroethane	63	3.166	3.166	(0.759)	712581	50.0000	50.1060	
28 Acrylonitrile	53	3.188	3.188	(0.765)	941085	250.000	254.087	
30 n-Propanol	41	3.265	3.265	(0.783)	211976	500.000	464.439	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1299236	50.0000	52.8026	
31 Vinyl acetate	86	3.275	3.275	(0.785)	118016	50.0000	48.6274	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	532782	50.0000	50.3371	
33 2,2-Dichloropropane	77	3.526	3.526	(0.846)	572690	50.0000	50.5257	
M 100 1,2-Dichloroethene, Total	61				1045156	100.000	99.4214	
34 Bromochloromethane	128	3.576	3.576	(0.857)	253971	50.0000	55.6420	
35 Cyclohexane	84	3.586	3.586	(0.860)	591178	50.0000	46.5498	
36 Chloroform	83	3.597	3.597	(0.863)	794398	50.0000	51.7437	
37 Ethyl acetate	43	3.636	3.636	(0.872)	429867	50.0000	46.6912	
38 Methyl acrylate	55	3.652	3.652	(0.876)	435632	50.0000	51.1125	
39 Carbon Tetrachloride	117	3.696	3.696	(0.886)	509082	50.0000	45.1240(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	635175	250.000	243.775	
$ 41 Dibromofluoromethane	113	3.707	3.707	(0.889)	265889	30.0000	30.4168	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	610648	50.0000	51.1015	
43 2-Butanone	72	3.761	3.761	(0.902)	323702	250.000	256.988(M)	MP
44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	558714	50.0000	49.4289	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	321476	50.0000	44.2260	
46 Heptane	71	3.887	3.887	(0.932)	305105	50.0000	46.4601	
48 Propionitrile	54	3.941	3.941	(0.945)	357367	250.000	254.801	
47 Benzene	78	3.941	3.941	(0.945)	1700318	50.0000	48.9404	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	220321	50.0000	52.4027	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1257656	50.0000	52.9501	
$ 51 1,2-Dichloroethane-d4	65	4.018	4.018	(0.963)	272036	30.0000	29.5214(M)	MP
54 Isobutyl alcohol	42	3.985	3.985	(0.956)	115736	500.000	540.744(M)	MP
52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	549135	50.0000	50.2796	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	192096	250.000	260.025	
* 55 Fluorobenzene	96	4.170	4.170	(1.000)	1107878	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	960154	50.0000	44.6040	
57 Trichloroethene	95	4.269	4.269	(1.024)	423193	50.0000	48.1289	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	672671	50.0000	50.1523	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	984311	50.0000	47.5557	
60 Dibromomethane	93	4.525	4.525	(1.085)	294156	50.0000	52.9188	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	428377	50.0000	51.2305	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	551352	50.0000	47.4253	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	343242	50.0000	51.8670	
65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	283323	50.0000	46.3255	
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	707043	50.0000	50.5400	
67 Octane	85	4.994	4.994	(0.809)	265215	50.0000	52.1506	
$ 68 Toluene-d8	98	5.120	5.120	(0.829)	1010369	30.0000	30.8625	
69 Toluene	92	5.152	5.152	(0.835)	1034882	50.0000	49.8742	
70 Chloroacetonitrile	75	5.213	5.213	(0.844)	136958	250.000	264.771	
71 2-Nitropropane	41	5.300	5.300	(0.859)	552052	250.000	242.671	
72 1,1-Dichloro-2-propanone	63	5.311	5.311	(0.860)	53257	250.000	242.161	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2094971	250.000	255.641	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	641081	50.0000	49.4922	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	395796	50.0000	52.3835	
76 Ethyl methacrylate	69	5.480	5.480	(0.888)	636520	50.0000	50.8882	

Data File: 2524070101.D Page 3
Report Date: 02-Jul-2024 13:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	344351	50.0000	54.0134	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	453621	50.0000	50.1927	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	696458	50.0000	55.2913	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	434718	50.0000	51.2225	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1416034	250.000	251.881	
	82 1-Chlorohexane	91	6.140	6.140	(0.995)	591342	50.0000	54.1717	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	413498	30.0000	(M)	MP
	85 Ethylbenzene	106	6.189	6.189	(1.003)	612229	50.0000	49.5179	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	1136310	50.0000	53.7376	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	399917	50.0000	50.0894	
	87 mp-Xylene	106	6.287	6.287	(1.019)	1472462	100.000	100.308	
M	120 1,3-Dichloropropene, Total	75				1348124	100.000	100.032	
	88 o-Xylene	106	6.609	6.609	(1.071)	707512	50.0000	50.2788	
	89 Styrene	104	6.648	6.648	(0.836)	1128682	50.0000	48.1234	
	90 Bromoform	173	6.680	6.680	(0.840)	304330	50.0000	45.9563	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1597220	50.0000	48.8454	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	319856	30.0000	29.1499	
M	121 TOTAL XYLENES	106				2179974	150.000	150.587	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	495154	50.0000	51.6359	
	93 Bromobenzene	156	7.155	7.155	(0.900)	494423	50.0000	52.7234	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	502585	50.0000	53.9214	
	97 1,3,5-Trimethylbenzene	105	7.302	7.302	(0.918)	1392772	50.0000	52.1873	
	96 o-Chlorotoluene	91	7.291	7.291	(0.917)	1322501	50.0000	52.4190	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	159175	50.0000	52.9491	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	137265	50.0000	48.0035	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1207145	50.0000	52.8234	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	342137	50.0000	53.6021	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	309034	50.0000	48.2248(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.613	(0.957)	1398555	50.0000	49.4878	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1787307	50.0000	54.1865	
	106 p-Isopropyltoluene	134	7.810	7.810	(0.982)	403922	50.0000	53.4752	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	838480	50.0000	53.0726	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	396634	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	859735	50.0000	52.2070	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	362034	50.0000	51.2886	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	185752	50.0000	47.0877	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	257873	50.0000	45.5945	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	802708	50.0000	53.3387	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	80565	50.0000	45.2369	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	261481	500.000	452.467	
	116 Hexachlorobutadiene	225	9.523	9.523	(1.198)	236285	50.0000	47.4708	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	545628	50.0000	54.7482	
	118 Naphthalene	128	9.829	9.829	(1.236)	1382927	50.0000	47.2260	
	119 1,2,3-Trichlorobenzene	180	9.981	9.981	(1.255)	528930	50.0000	47.2514	

QC Flag Legend

M - Compound response manually integrated.



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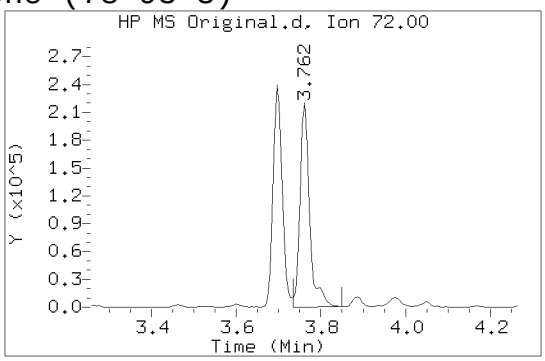
Client ID:
Sample Info: 1800;;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25_i
Operator: TMP
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070101.D
Inj Date : 01-JUL-2024 09:22
InstruID : ms25.i
LabSampID : 1800

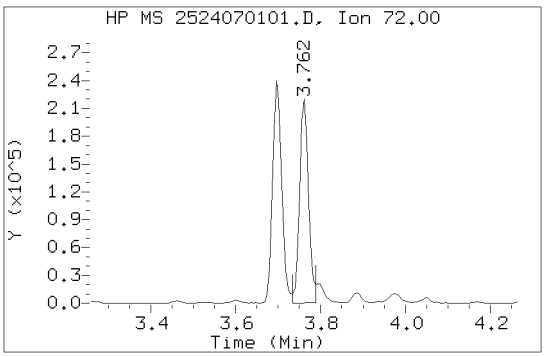
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
348517
HEIGHT
220224
01-Jul-2024
09:38



AFTER
MASS
72
AREA
323702
HEIGHT
220224
02-Jul-2024
13:09



BEFORE
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43
AREA
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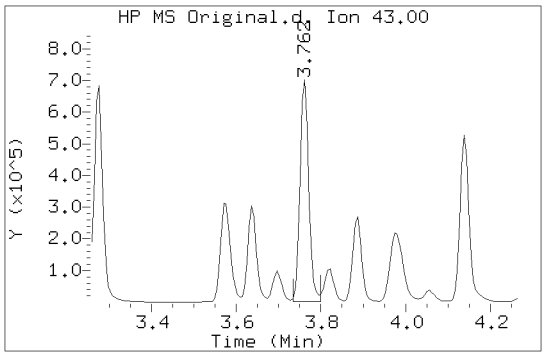
HEIGHT
698790
01-Jul-2024
09:38



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02-Jul-2024
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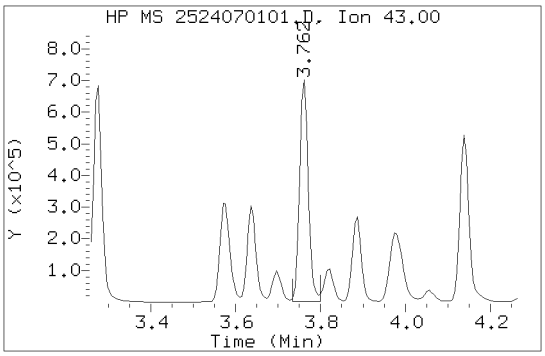

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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HEIGHT
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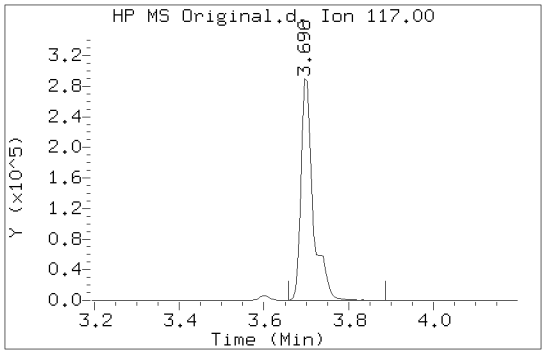
01-Jul-2024
09:38



AFTER
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AREA
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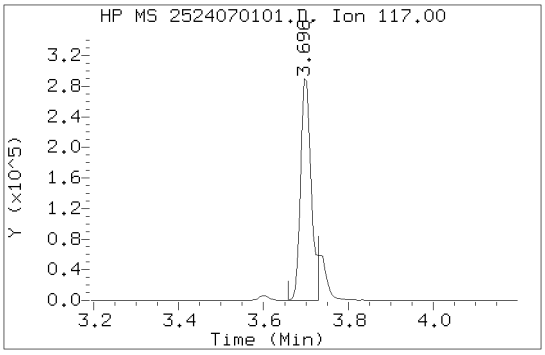
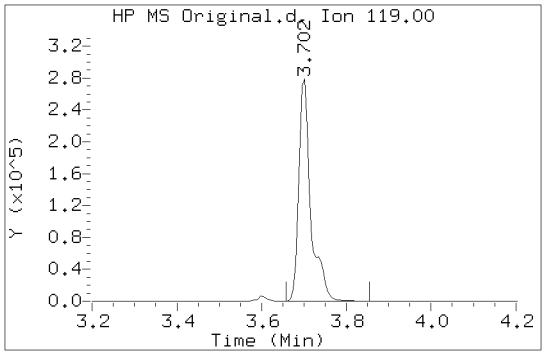
289792
02-Jul-2024
13:09



BEFORE
MASS
119
AREA
551302
HEIGHT
278912
01-Jul-2024
09:38



AFTER
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AREA
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HEIGHT
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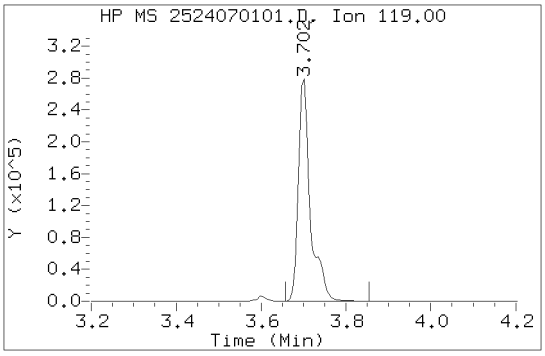
02-Jul-2024
13:09



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Inj Date : 01-JUL-2024 09:22
InstruID : ms25.i
LabSampID : 1800

Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE

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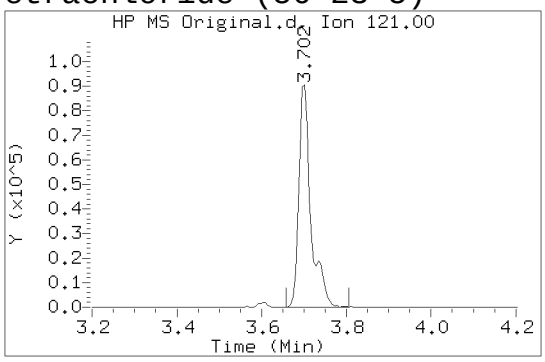
HEIGHT
90560
01-Jul-2024
09:38



AFTER

MASS
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AREA
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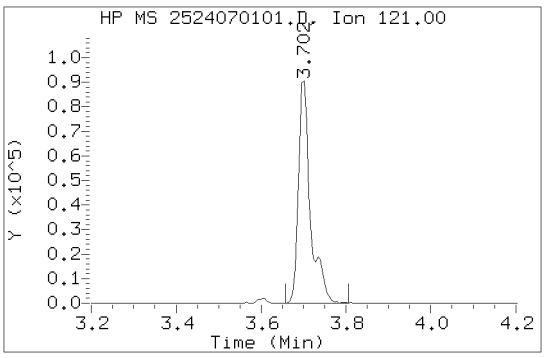
HEIGHT
90560
02-Jul-2024
13:09



Chlorobenzene-d5 (3114-55-4)

Reason Code: MP

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HEIGHT
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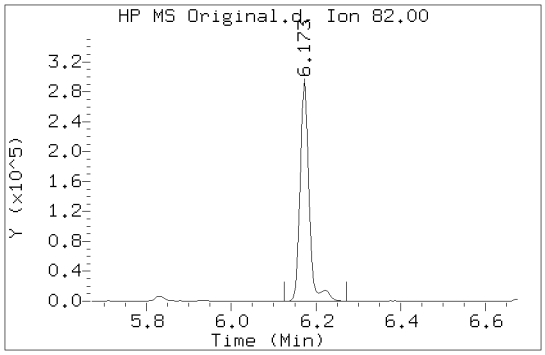
01-Jul-2024
09:38



AFTER

MASS
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AREA
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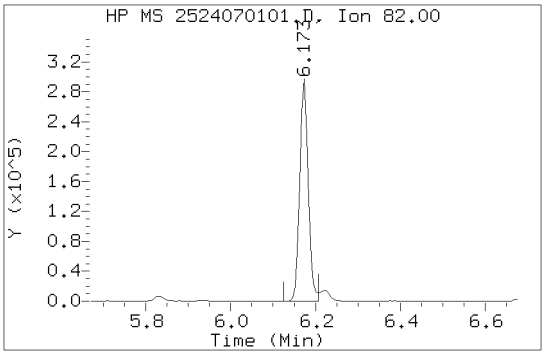
297280
02-Jul-2024
13:09



BEFORE

MASS
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AREA
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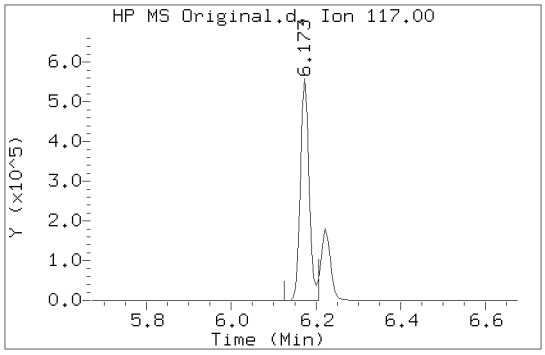
HEIGHT
558464
01-Jul-2024
09:38



AFTER

MASS
117
AREA
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HEIGHT
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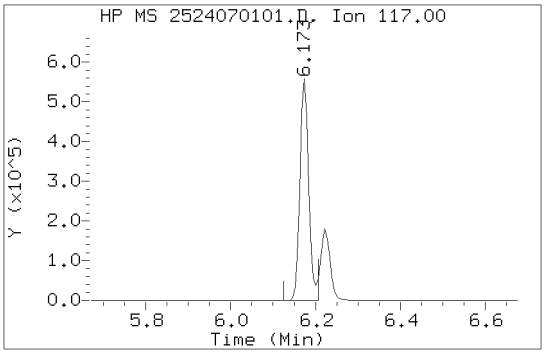
02-Jul-2024
13:09



BEFORE

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HEIGHT
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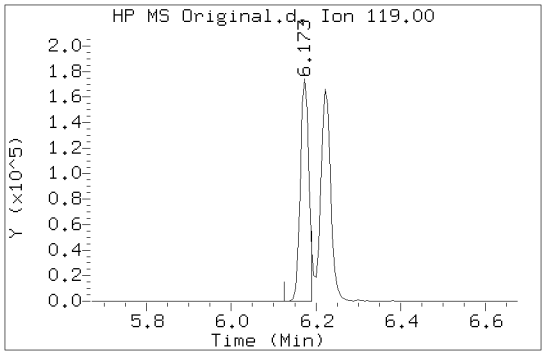
01-Jul-2024
09:38



AFTER

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HEIGHT
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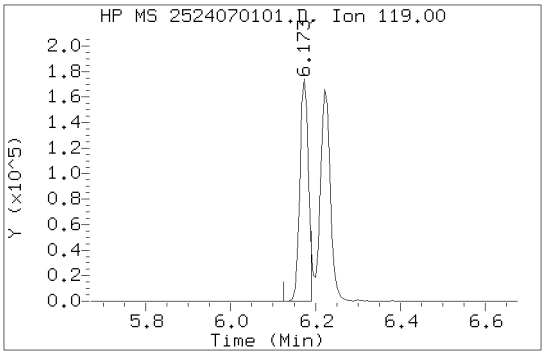
02-Jul-2024
13:09



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Inj Date : 01-JUL-2024 09:22
InstruID : ms25.i
LabSampID : 1800

Isobutyl alcohol (78-83-1)

Reason Code: MP

BEFORE
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AREA
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HEIGHT
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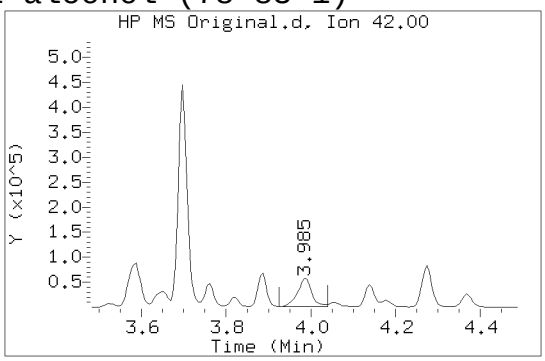
01-Jul-2024
09:38



AFTER
MASS
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AREA
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HEIGHT
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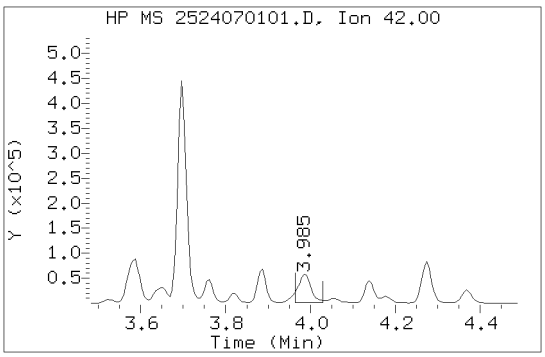
02-Jul-2024
13:09



BEFORE
MASS
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AREA
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HEIGHT
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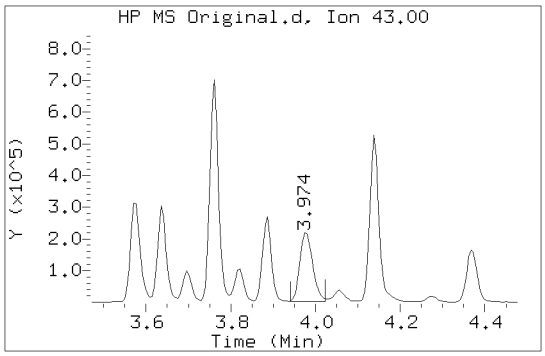
01-Jul-2024
09:38



AFTER
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02-Jul-2024
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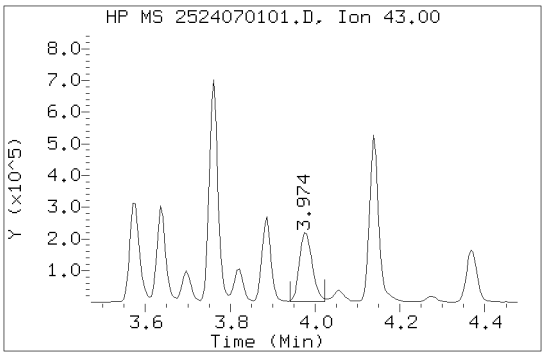

Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
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AREA
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HEIGHT
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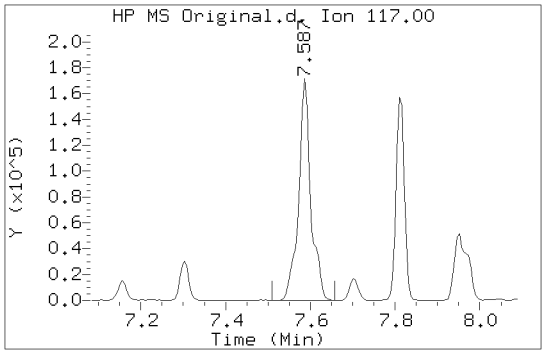
01-Jul-2024
09:38



AFTER
MASS
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AREA
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HEIGHT
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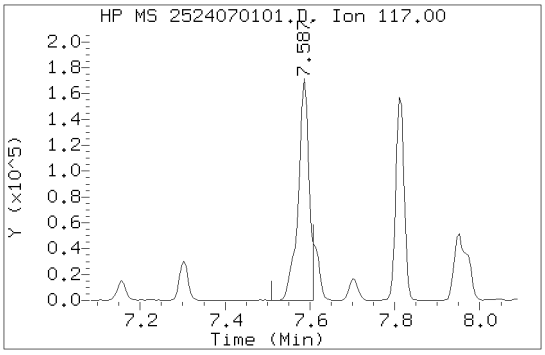
02-Jul-2024
13:09



BEFORE
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57
AREA
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HEIGHT
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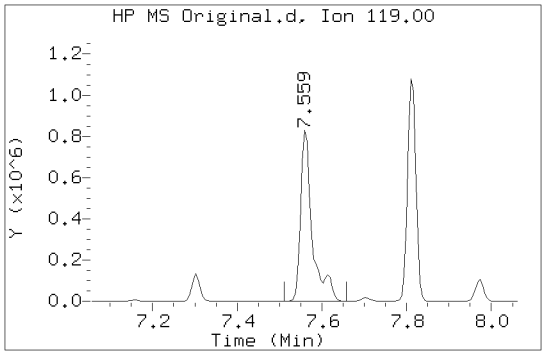
01-Jul-2024
09:38



AFTER
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AREA
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HEIGHT
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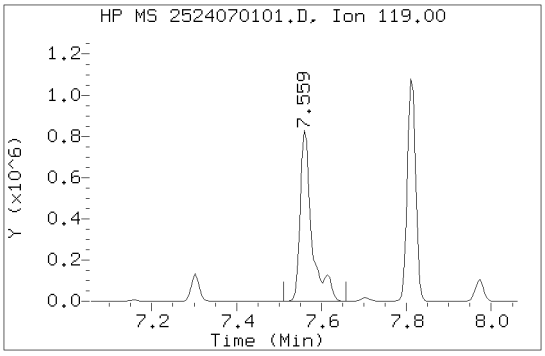
02-Jul-2024
13:09



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Inj Date : 01-JUL-2024 09:22
InstruID : ms25.i
LabSampID : 1800

Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE

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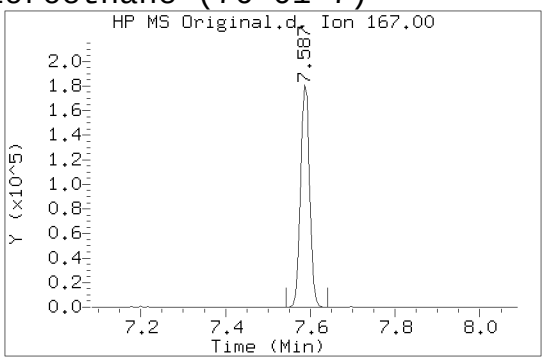
HEIGHT
286597
01-Jul-2024
09:38



AFTER

MASS
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AREA
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HEIGHT
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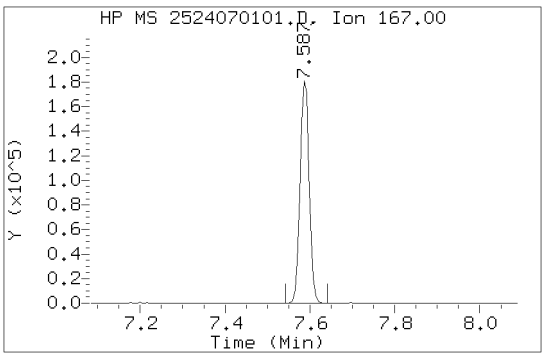
02-Jul-2024
13:09



1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE

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HEIGHT
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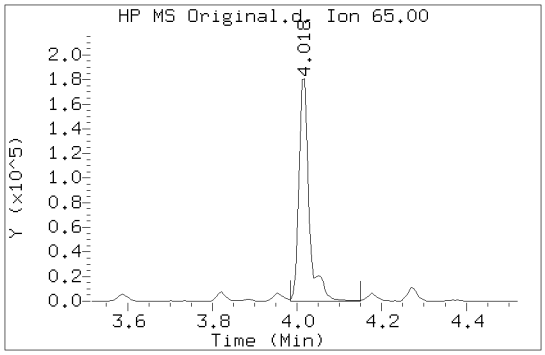
01-Jul-2024
09:38



AFTER

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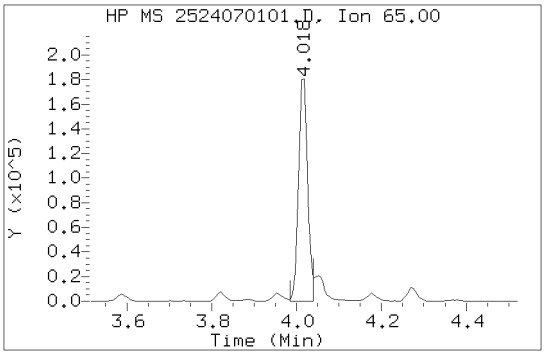
02-Jul-2024
13:09



BEFORE

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01-Jul-2024
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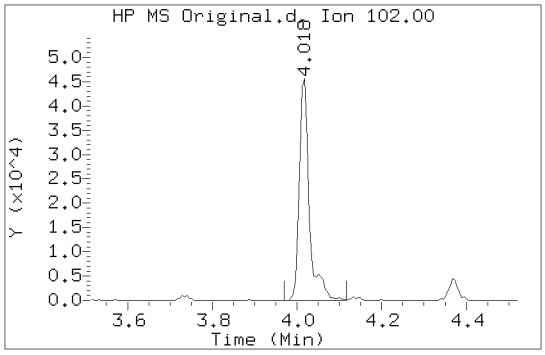

AFTER

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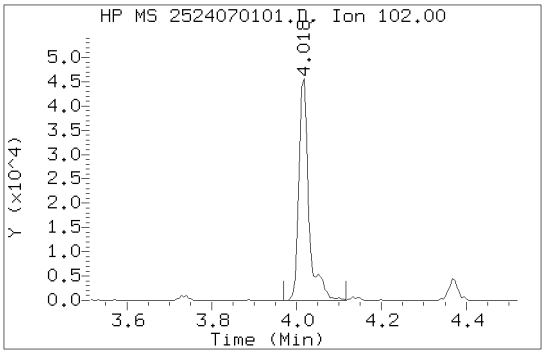
02-Jul-2024
13:09



UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:09
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407010
Inj Date: 01-JUL-2024 09:22
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524070102.D Page 1
Report Date: 02-Jul-2024 13:10

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070102.D
Lab Smp Id: 3846766 Client Smp ID: LCS for HBN 1238630
Inj Date : 01-JUL-2024 09:53
Operator : TMP Inst ID: ms25.i
Smp Info : 3846766;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	241356	19.4851	19.4851	
2 Chloromethane	50	1.644	1.644	(0.394)	206389	19.0073	19.0073	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	263215	18.7973	18.7973	
4 Bromomethane	94	1.922	1.922	(0.461)	132309	19.4742	19.4742	
5 Chloroethane	64	1.999	2.004	(0.479)	182590	19.1153	19.1153	
6 Pentane	41	2.086	2.091	(0.500)	166036	18.3695	18.3695	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	366669	19.1170	19.1170	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	369976	20.8468	20.8468	
9 Ethyl Ether	74	2.277	2.277	(0.546)	105266	19.5050	19.5050	
10 1,1-Dichloroethene	61	2.408	2.413	(0.577)	221912	20.6060	20.6060	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	482816	20.7829	20.7829	
11 Freon 113	101	2.424	2.424	(0.581)	165929	21.9058	21.9058	
13 Iodomethane	127	2.506	2.506	(0.601)	77012	18.7687	18.7687	
14 Acrolein	56	2.599	2.599	(0.623)	244252	140.611	140.611	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	183644	19.6758	19.6758	
15 Isopropyl Alcohol	45	2.654	2.648	(0.636)	47229	81.0577	81.0577	
17 Methylene Chloride	84	2.741	2.741	(0.657)	177880	20.2210	20.2210	
18 Acetone	58	2.752	2.752	(0.660)	98026	100.579	100.579	
19 Methyl acetate	74	2.812	2.812	(0.674)	38138	18.7884	18.7884	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	211061	20.0099	20.0099	
21 Hexane	57	2.861	2.866	(0.686)	337051	19.0295	19.0295	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	511859	19.0592	19.0592	

Data File: 2524070102.D
Report Date: 02-Jul-2024 13:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	90695	93.2164	93.2164	
	24 Acetonitrile	41	3.019	3.019	(0.724)	103022	94.5288	94.5288	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	463286	19.7906	19.7906	
	26 Chloroprene	53	3.156	3.155	(0.757)	249169	20.9946	20.9946	
	27 1,1-Dichloroethane	63	3.166	3.166	(0.759)	291465	20.2826	20.2826	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	350154	93.5612	93.5612	
	30 n-Propanol	41	3.265	3.265	(0.783)	83122	180.236	180.236(a)	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	519516	20.8953	20.8953	
	31 Vinyl acetate	86	3.276	3.275	(0.785)	41206	17.0531	17.0531(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	219092	20.4856	20.4856	
	33 2,2-Dichloropropane	77	3.527	3.526	(0.846)	241995	21.1291	21.1291	
M	100 1,2-Dichloroethene, Total	61				430153	40.4955	40.4955	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	100716	21.8373	21.8373	
	35 Cyclohexane	84	3.587	3.586	(0.860)	267359	20.8342	20.8342	
	36 Chloroform	83	3.597	3.597	(0.863)	321906	20.7506	20.7506	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	155714	16.6833	16.6833	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	167205	19.4151	19.4151	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	204296	18.1718	18.1718(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	227420	86.3789	86.3789	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	259804	29.4132	29.4132	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	261521	21.6587	21.6587	
	43 2-Butanone	72	3.761	3.761	(0.902)	124482	97.8041	97.8041(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	228658	20.0198	20.0198	
	45 1-Chlorobutane	41	3.816	3.821	(0.915)	142044	19.3390	19.3390	
	46 Heptane	71	3.887	3.887	(0.932)	138655	20.8953	20.8953	
	48 Propionitrile	54	3.941	3.941	(0.945)	133447	94.1625	94.1625	
	47 Benzene	78	3.941	3.941	(0.945)	689306	19.6351	19.6351	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	85529	20.1323	20.1323	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	495449	20.6437	20.6437	
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	265129	28.4741	28.4741(M)	MP
	54 Isobutyl alcohol	42	3.990	3.985	(0.957)	37707	177.075	177.075(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	214520	19.4385	19.4385	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	65695	88.0058	88.0058	
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	1119462	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	418157	18.3659	18.3659	
	57 Trichloroethene	95	4.269	4.269	(1.024)	178330	20.0712	20.0712	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	289074	20.9773	20.9773	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	373087	18.0023	18.0023	
	60 Dibromomethane	93	4.525	4.525	(1.085)	116478	20.7376	20.7376	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	170258	20.1508	20.1508	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	216500	18.6314	18.6314	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	125579	18.7798	18.7798	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	103264	16.9465	16.9465	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	264412	18.5750	18.5750	
	67 Octane	85	5.000	4.994	(0.810)	115158	22.0398	22.0398	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	999681	29.7211	29.7211	
	69 Toluene	92	5.153	5.152	(0.835)	417049	19.5625	19.5625	
	70 Chloroacetonitrile	75	5.213	5.213	(0.844)	47008	88.4519	88.4519	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	185433	80.5956	80.5956	
	72 1,1-Dichloro-2-propanone	63	5.316	5.311	(0.861)	18789	84.4263	84.4263(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	758989	90.7983	90.7983	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	248664	18.8695	18.8695	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	161055	20.7467	20.7467	
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	229459	18.0601	18.0601	

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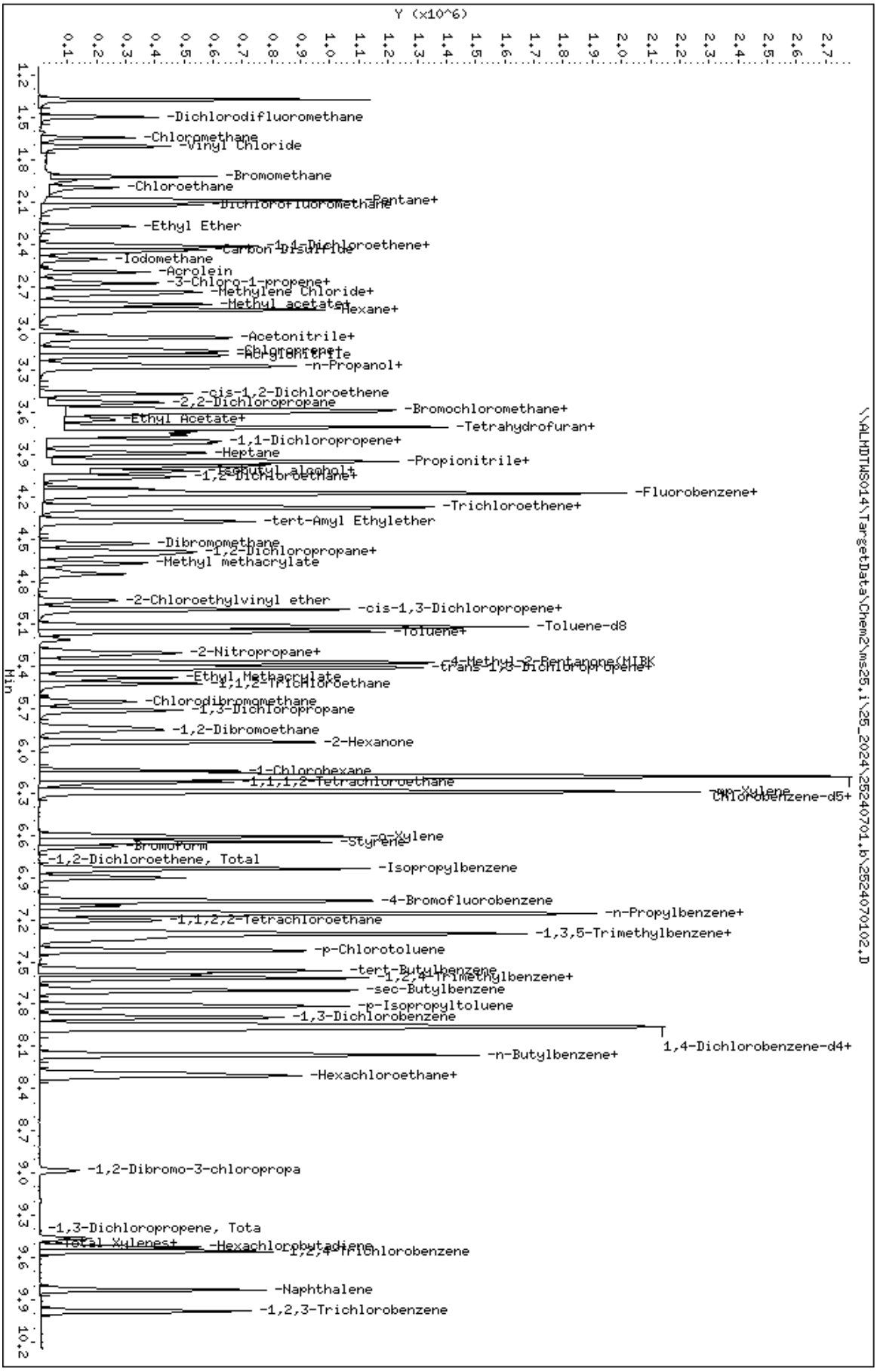
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	133922	20.4458	20.4458	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	166115	18.1271	18.1271	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	270533	20.9042	20.9042	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	164948	19.0647	19.0647	
	81 2-Hexanone	43	5.933	5.933	(0.961)	513668	89.6495	89.6495	
	82 1-Chlorohexane	91	6.146	6.140	(0.996)	223981	19.9709	19.9709	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	424836	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	250002	19.6000	19.6000	
	84 Chlorobenzene	112	6.189	6.184	(1.003)	450692	20.7450	20.7450	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	158849	19.5598	19.5598	
	87 mp-Xylene	106	6.288	6.287	(1.019)	595228	38.9857	38.9857	
M	120 1,3-Dichloropropene, Total	75				513076	37.4445	37.4445	
	88 o-Xylene	106	6.609	6.609	(1.071)	281956	19.5022	19.5022	
	89 Styrene	104	6.648	6.648	(0.836)	435249	19.5563	19.5563	
	90 Bromoform	173	6.680	6.680	(0.840)	107551	17.1890	17.1890	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	709420	22.7314	22.7314	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	314064	29.8918	29.8918	
M	121 TOTAL XYLENES	106				877184	58.4879	58.4879	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	199512	21.7286	21.7286	
	93 Bromobenzene	156	7.155	7.155	(0.900)	190672	21.2345	21.2345	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	186355	20.8806	20.8806	
	97 1,3,5-Trimethylbenzene	105	7.302	7.302	(0.918)	541327	21.1834	21.1834	
	96 o-Chlorotoluene	91	7.292	7.291	(0.917)	518176	21.4497	21.4497	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	58742	20.4072	20.4072	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	48365	17.8477	17.8477	
	101 p-Chlorotoluene	91	7.422	7.417	(0.933)	477630	21.8278	21.8278	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	138057	22.5887	22.5887	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	113863	18.7362	18.7362(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.613	(0.957)	546946	20.1221	20.1221	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	708235	22.4244	22.4244	
	106 p-Isopropyltoluene	134	7.810	7.810	(0.982)	156540	21.6437	21.6437	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	328235	21.6977	21.6977	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	379786	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	336776	21.3578	21.3578	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	143382	21.2137	21.2137(Q)	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	65197	17.5579	17.5579(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	96065	17.9764	17.9764	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	305653	21.2112	21.2112	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	27822	16.5797	16.5797	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	75474	147.545	147.545	
	116 Hexachlorobutadiene	225	9.529	9.523	(1.198)	99552	21.0286	21.0286	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	214451	22.4725	22.4725	
	118 Naphthalene	128	9.829	9.829	(1.236)	497882	17.9564	17.9564	
	119 1,2,3-Trichlorobenzene	180	9.982	9.981	(1.255)	192436	18.1348	18.1348	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Carbon Disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-Isobutyl alcohol+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
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-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-m,p-Xylene
Chlorobenzene-d5+
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes+
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Page 1

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2-Butanone (78-93-3)

Reason Code: MP

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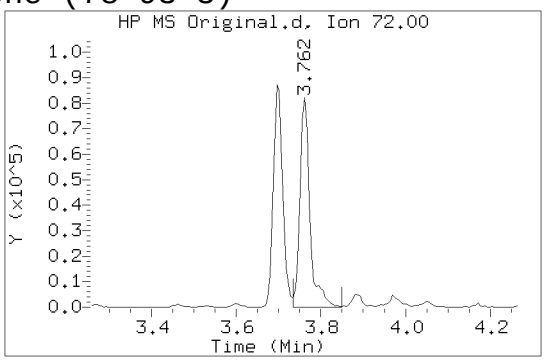

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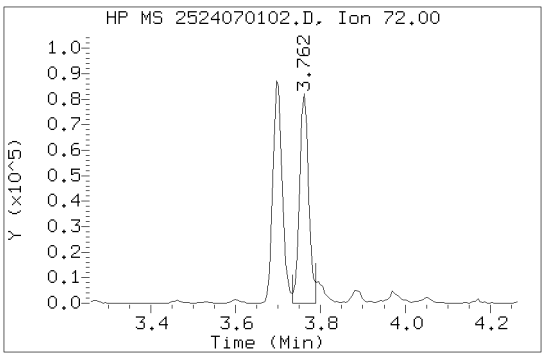

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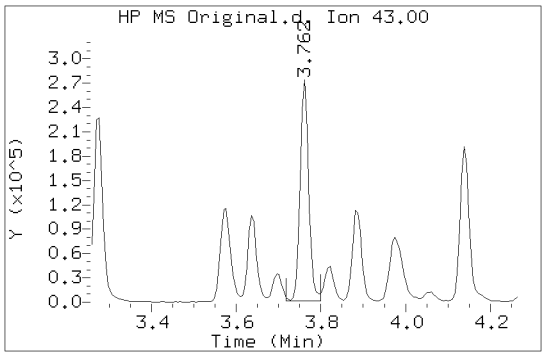

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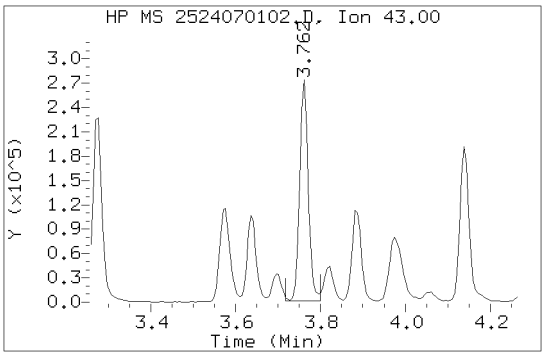

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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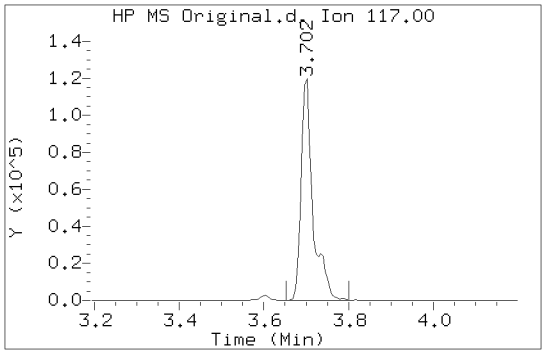

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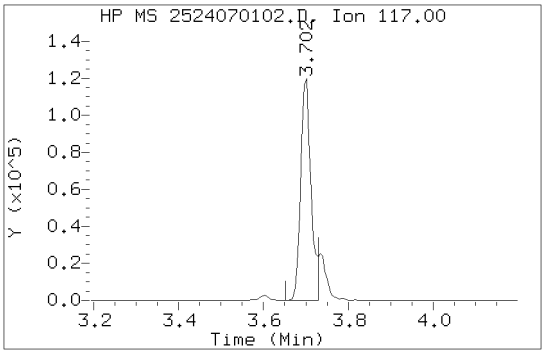

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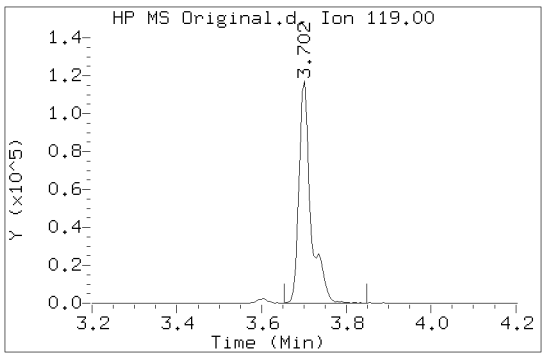

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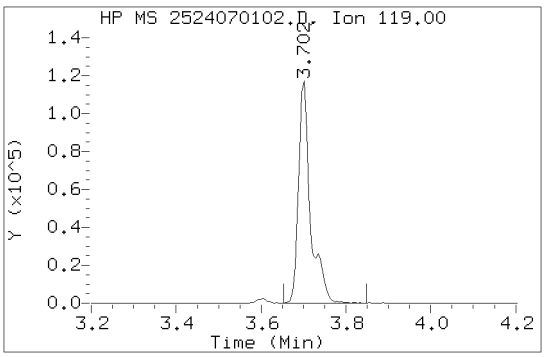

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Carbon Tetrachloride (56-23-5)

Reason Code: MP

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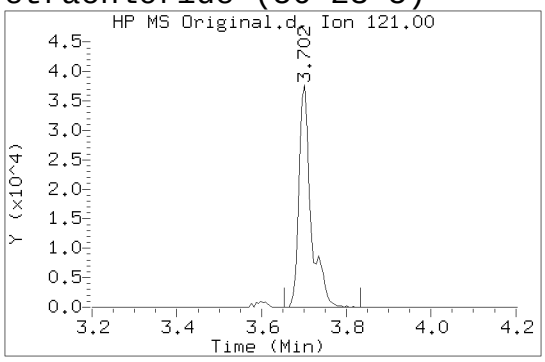

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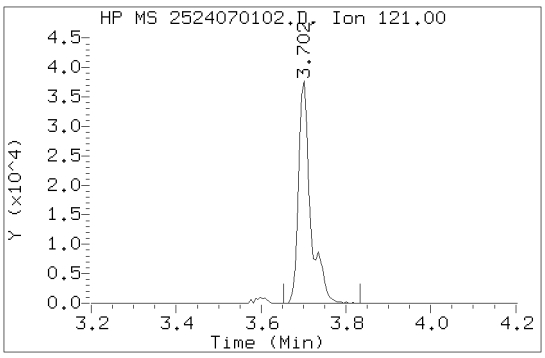

Isobutyl alcohol (78-83-1)

Reason Code: MP

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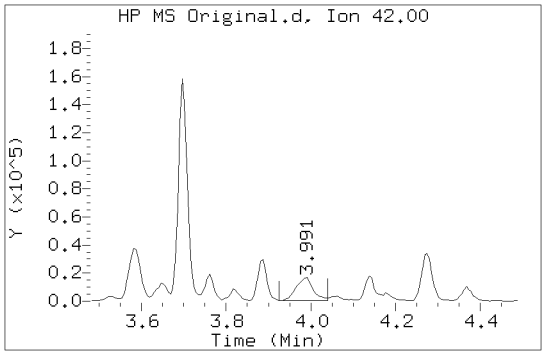
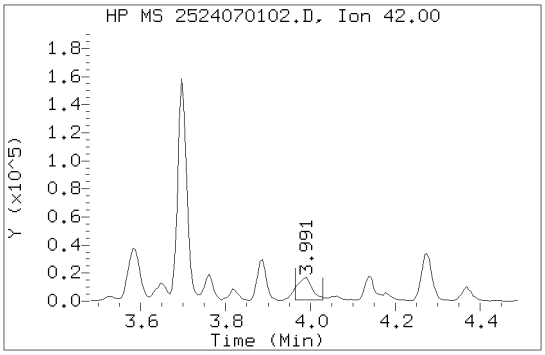
01-Jul-2024
10:08



AFTER

MASS
42
AREA
37707
HEIGHT
16026
02-Jul-2024
13:10



BEFORE

MASS
142
AREA
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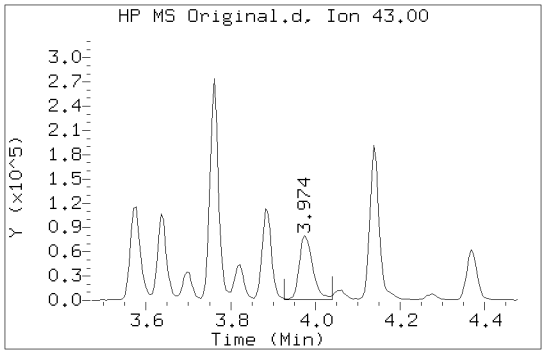
HEIGHT
130728
01-Jul-2024
10:08



AFTER

MASS
43
AREA
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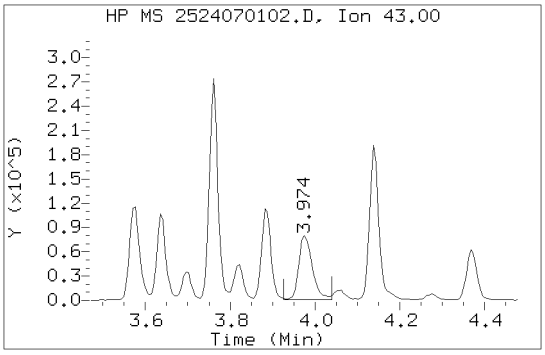
HEIGHT
78789
02-Jul-2024
13:10

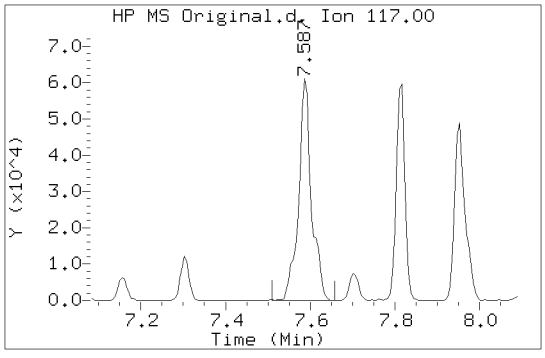


Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE

MASS
85
AREA
115158
HEIGHT
80600
01-Jul-2024
10:08



AFTER

MASS
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AREA
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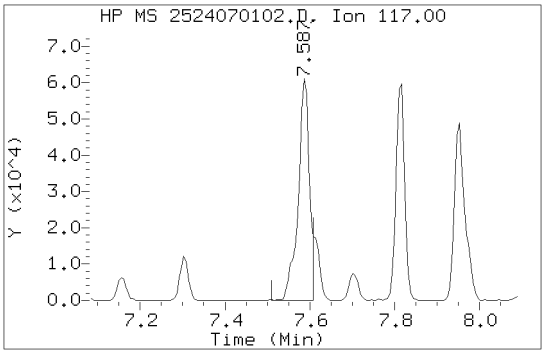
HEIGHT
61088
02-Jul-2024
13:10



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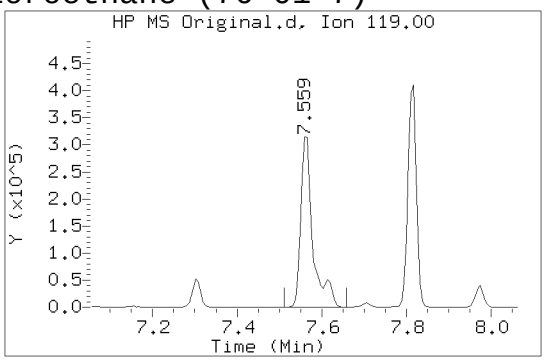
Inj Date : 01-JUL-2024 09:53
InstruID : ms25.i
LabSampID : 3846766

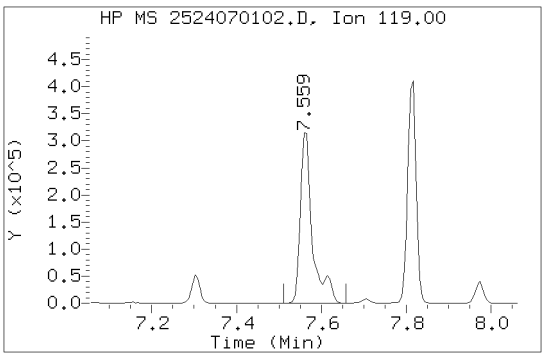
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
57
AREA
85384
HEIGHT
59643
01-Jul-2024
10:08



AFTER
MASS
119
AREA
625783
HEIGHT
314816
02-Jul-2024
13:10



BEFORE
MASS
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AREA
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HEIGHT
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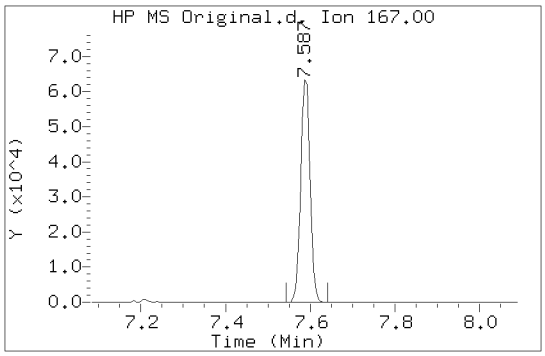
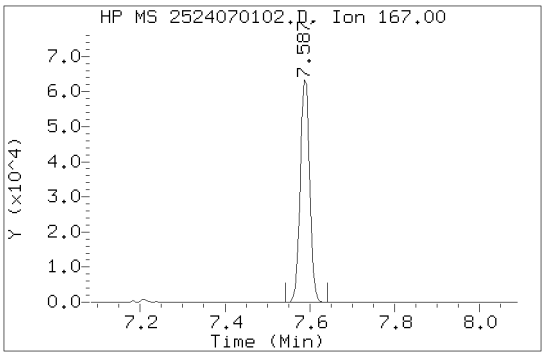
01-Jul-2024
10:08



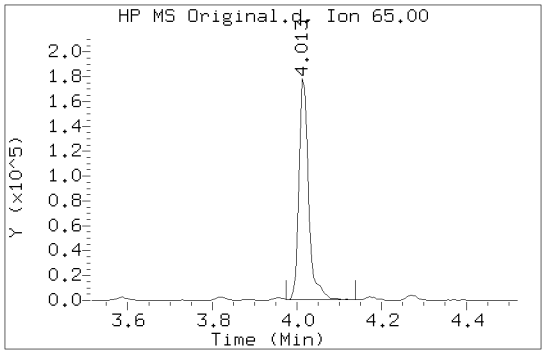
AFTER
MASS
167
AREA
98102
HEIGHT
63320
02-Jul-2024
13:10



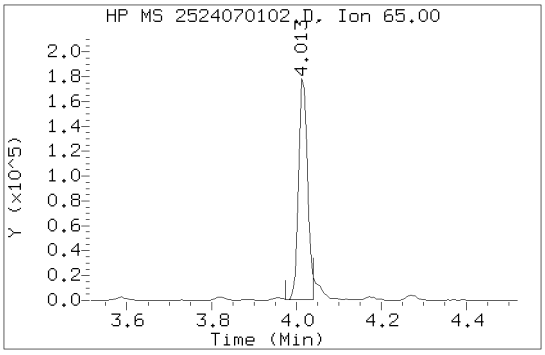
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

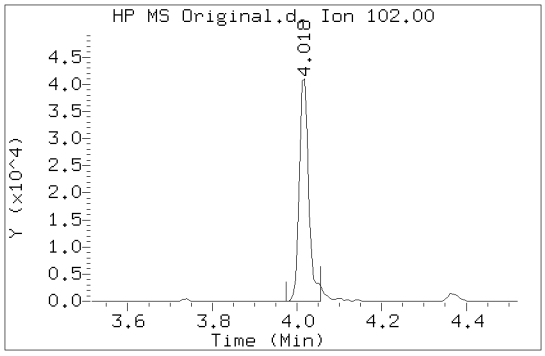
BEFORE
MASS
113
AREA
259804
HEIGHT
164608
01-Jul-2024
10:08



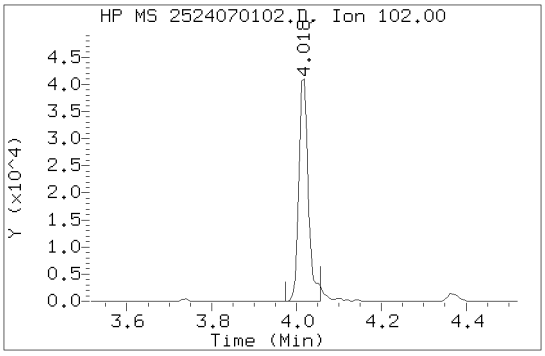
AFTER
MASS
65
AREA
265129
HEIGHT
177959
02-Jul-2024
13:10



BEFORE
MASS
111
AREA
263145
HEIGHT
164672
01-Jul-2024
10:08



AFTER
MASS
102
AREA
64472
HEIGHT
41016
02-Jul-2024
13:10



UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:10
Client ID: LCS for HBN 1238630
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407010
Inj Date: 01-JUL-2024 09:53
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524070105.D Page 1
Report Date: 02-Jul-2024 13:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070105.D
Lab Smp Id: 3846765 Client Smp ID: MB for HBN 1238630
Inj Date : 01-JUL-2024 11:15
Operator : TMP Inst ID: ms25.i
Smp Info : 3846765;;1;3;;MB;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070105.D
Report Date: 02-Jul-2024 13:11

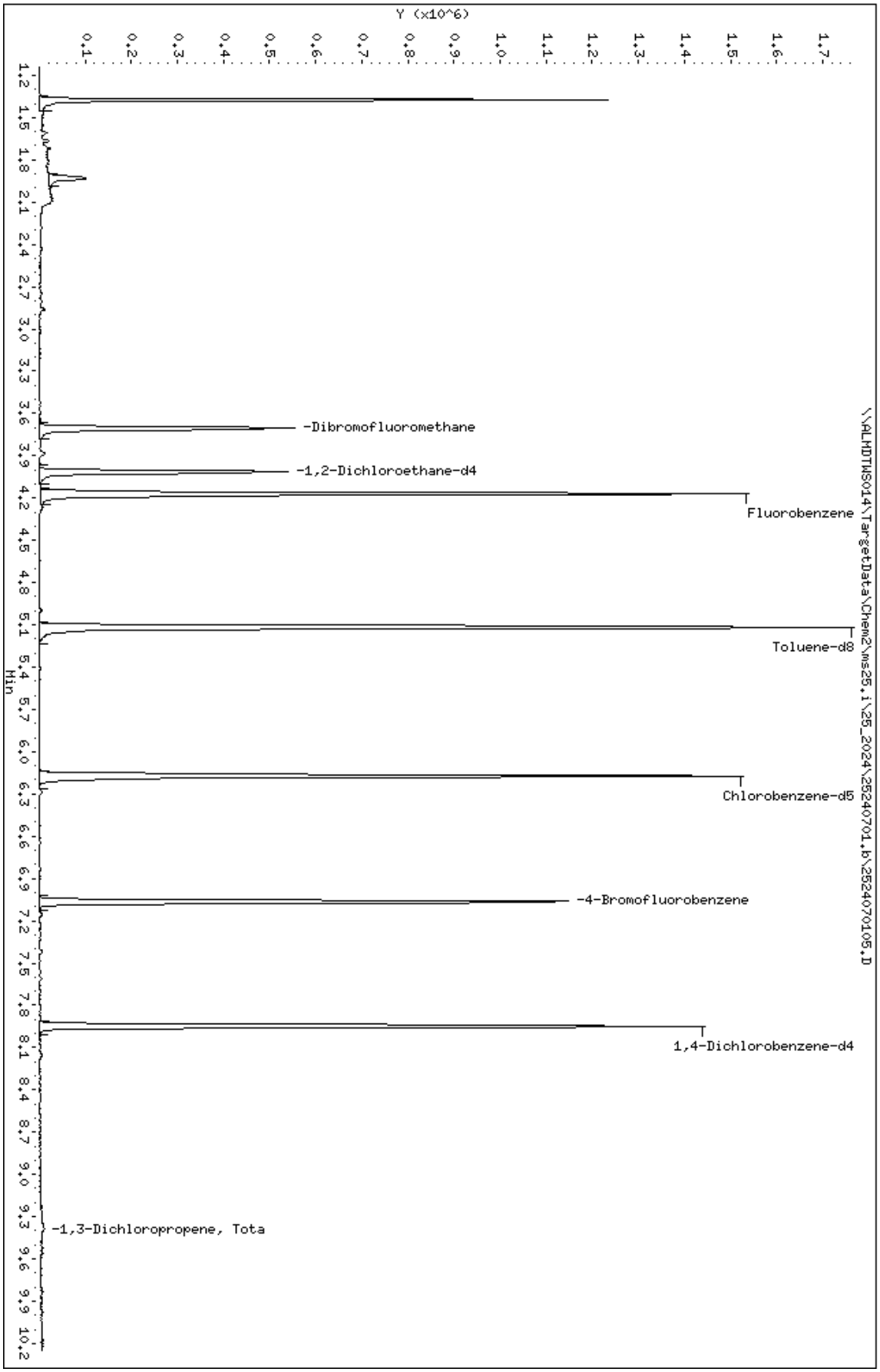
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	265154	29.8914	29.8914	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	291443	31.1673	31.1673	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	1124234	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.114	5.120	(0.829)	1041955	32.1126	32.1126	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070105.D Page 3
Report Date: 02-Jul-2024 13:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	409825	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	300589	30.9393	30.9393	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	351184	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.



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Date : 01-JUL-2024 11:15
Client ID: MB for HBN 1238630
Sample Info: 3846765;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070105.D
Inj Date : 01-JUL-2024 11:15
InstruID : ms25.i
LabSampID : 3846765

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:11
Client ID: MB for HBN 1238630
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/2524070105
Inj Date: 01-JUL-2024 11:15
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Ethyl methacrylate
2-Hexanone
2-Nitropropane
1-Chlorohexane
trans-1,3-Dichloropropene
Heptane
Methacrylonitrile

Data File: 2524070106.D Page 1
Report Date: 02-Jul-2024 13:14

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070106.D
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Inj Date : 01-JUL-2024 11:35
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026003;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						RT
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						RT
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	1726285	229.389	229.389(A)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						IBDL
18 Acetone	58	Compound Not Detected.						RT
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						RT
21 Hexane	57	Compound Not Detected.						

Data File: 2524070106.D
Report Date: 02-Jul-2024 13:14

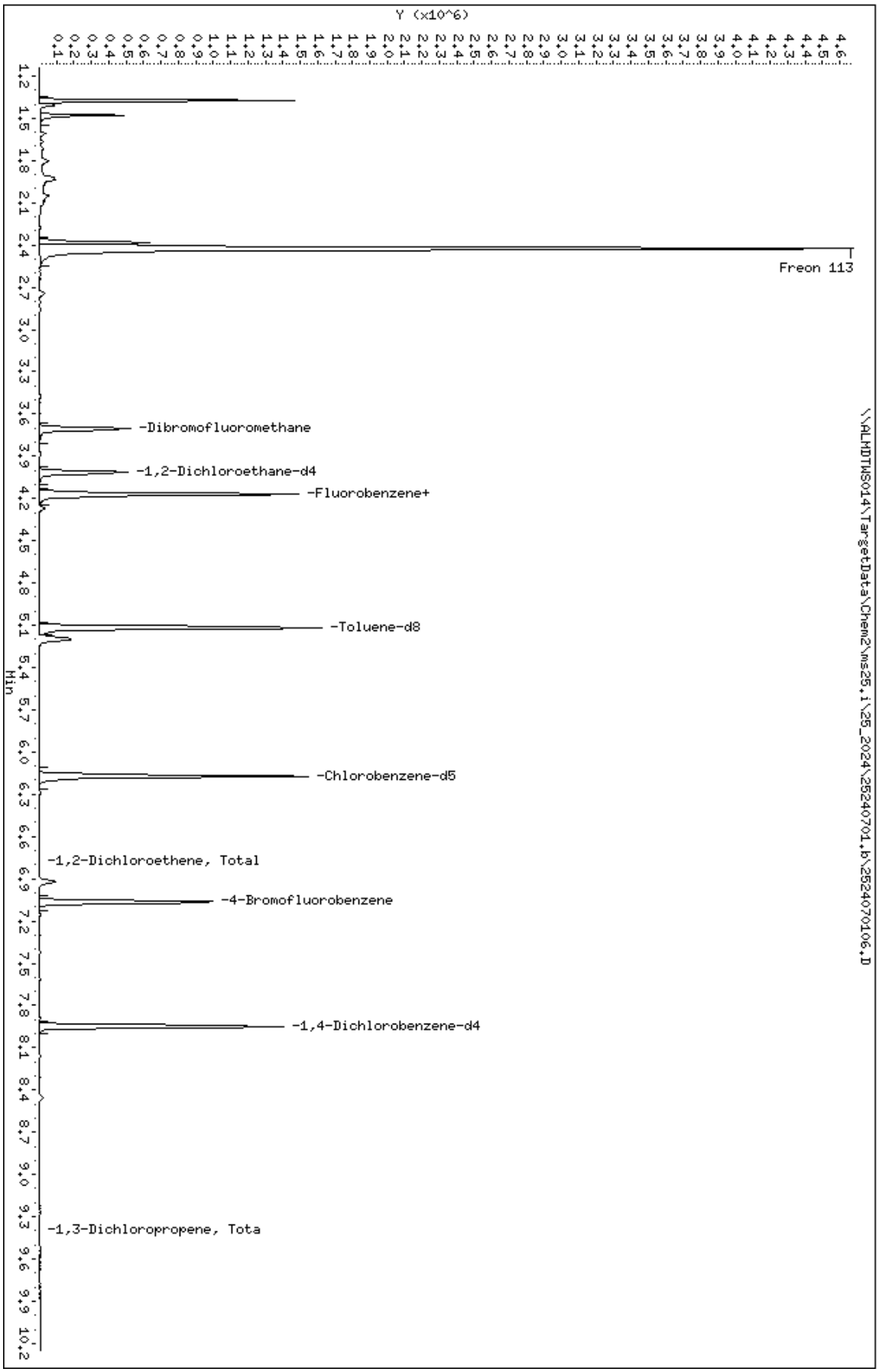
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						RT
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	241948	27.5703	27.5703	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	272483	29.4548	29.4548	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	1112207	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	7559	0.85632	0.856323(aQ)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						RT
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	956132	29.6946	29.6946	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						RT
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						RT
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070106.D Page 3
Report Date: 02-Jul-2024 13:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	406691	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	266218	27.2971	27.2971		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	352528	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



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Client ID: ICT7_062024
Sample Info: 336602600 3;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070106.D Page 2

Date : 01-JUL-2024 11:35

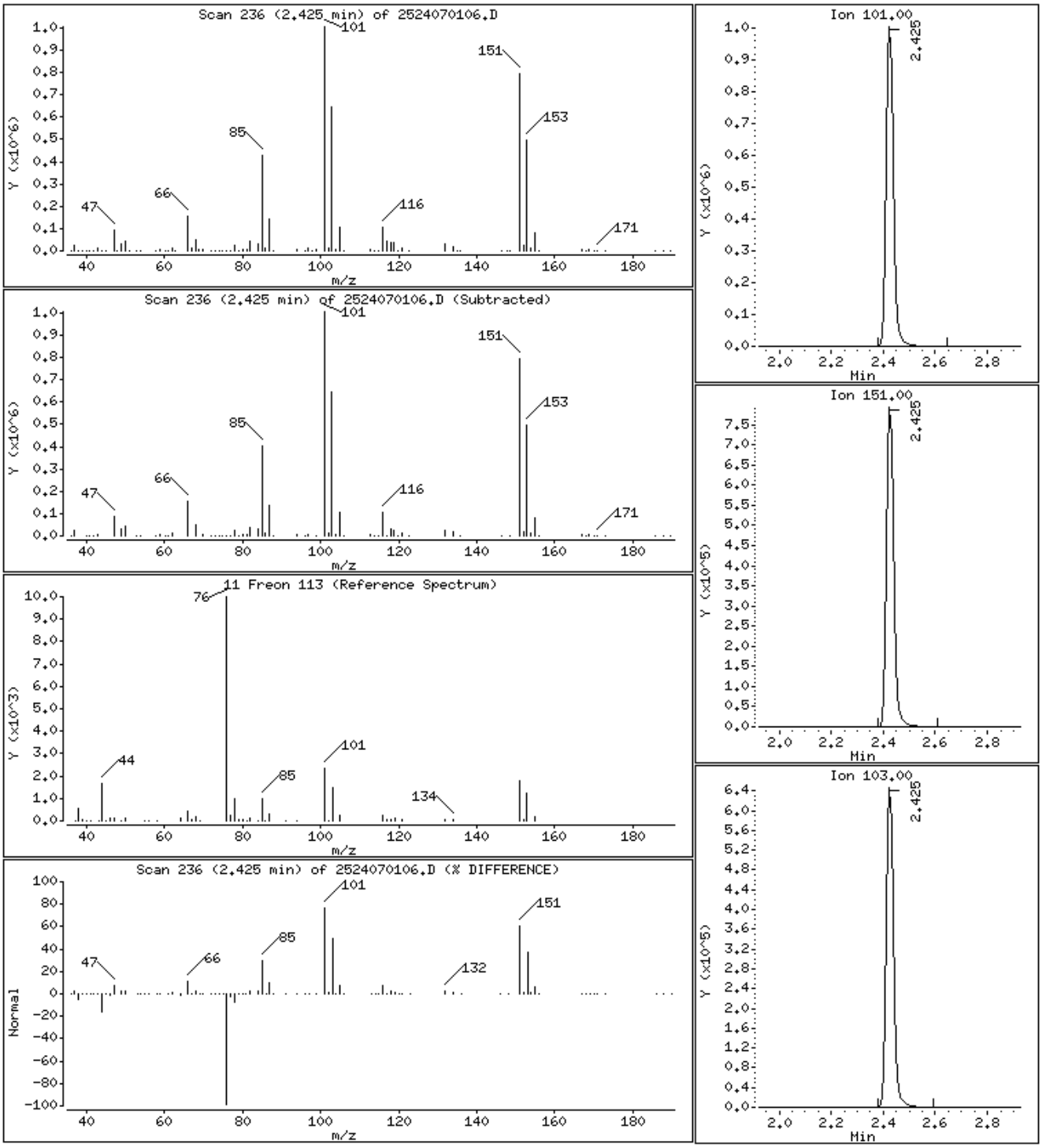
Client ID: ICT7_062024 Instrument: ms25.i

Sample Info: 3366026003;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 229.389 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070106.D Page 3

Date : 01-JUL-2024 11:35

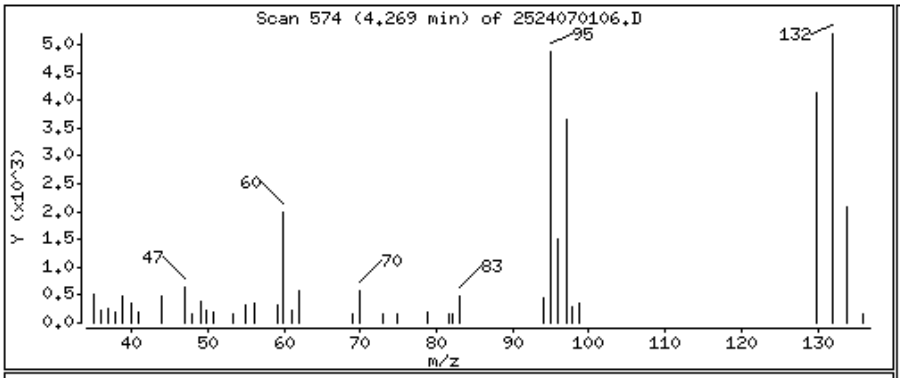
Client ID: ICT7_062024 Instrument: ms25.i

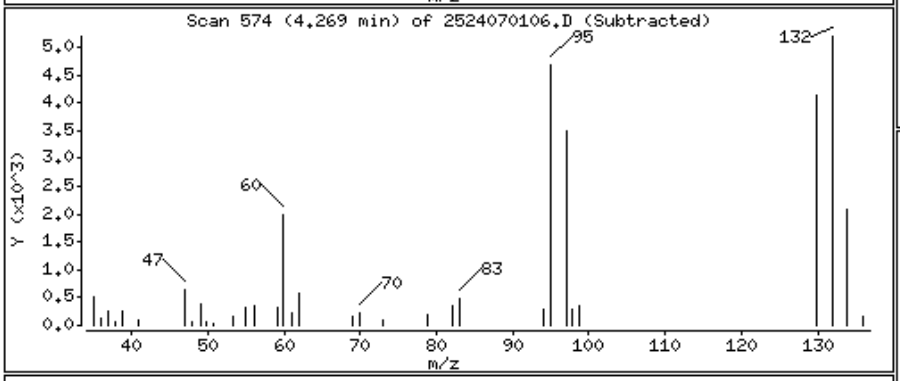
Sample Info: 3366026003;;1;;;;;

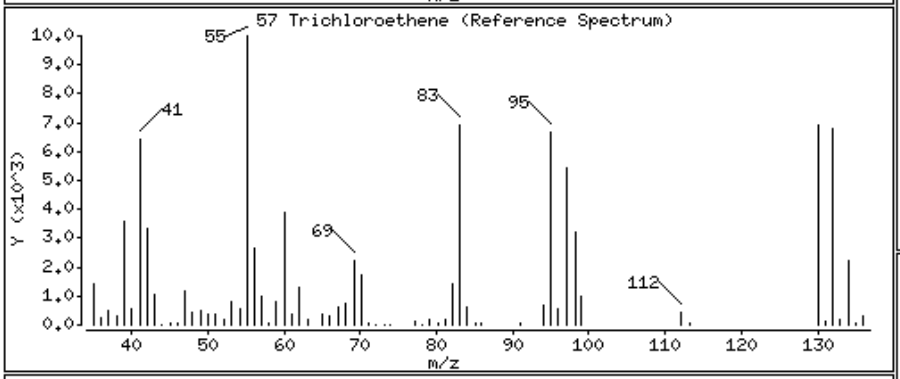
Purge Volume: 5.0 Operator: TMP

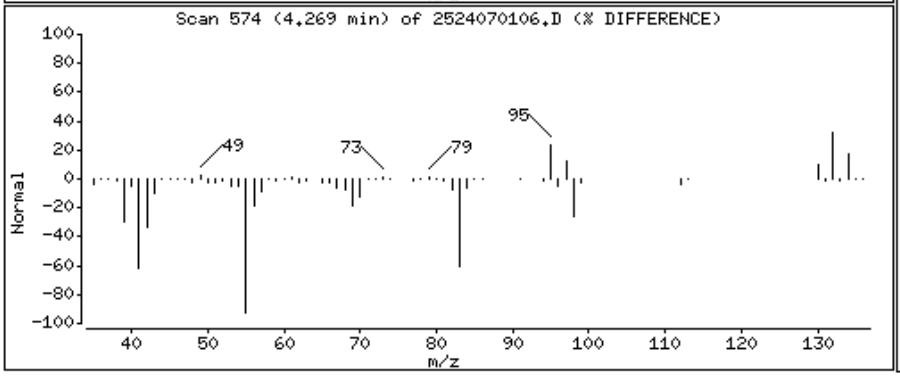
Column phase: DB-VRX Column diameter: 0.25

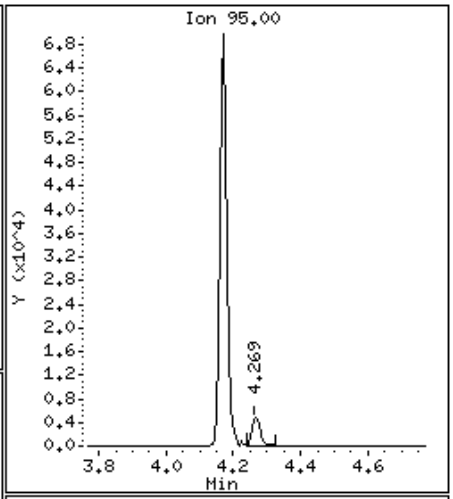
57 Trichloroethene Concentration: 0.856323 ug/L

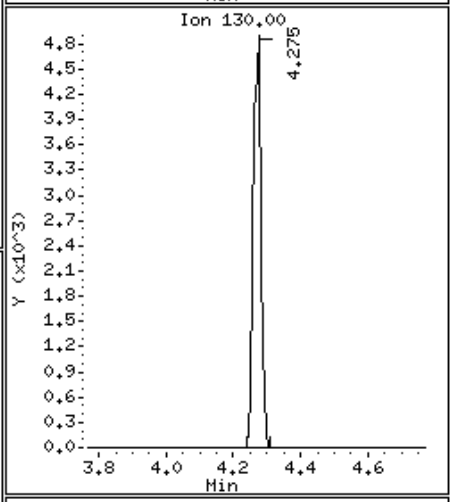


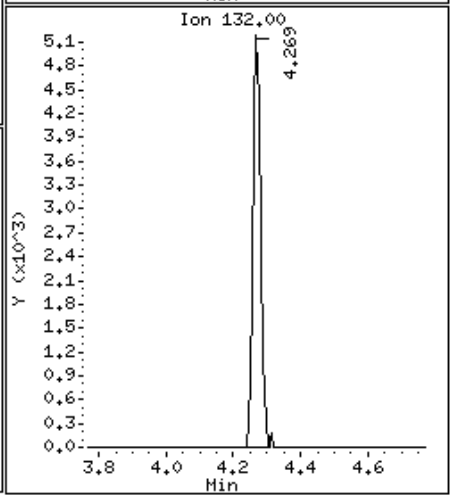












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Inj Date : 01-JUL-2024 11:35
InstruID : ms25.i
LabSampID : 3366026003

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:14
Client ID: ICT7_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/2524070100
Inj Date: 01-JUL-2024 11:35
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone	Acetonitrile
tert.- Butyl Alcohol	1-Chlorohexane
1,1-Dichloro-2-propanone	Dichlorodifluoromethane
1,2-Dichloroethane	1,1-Dichloroethene
trans-1,2-Dichloroethene	Dichlorofluoromethane
cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
Ethyl methacrylate	Heptane
Methacrylonitrile	Methylene Chloride
2-Nitropropane	Trichlorofluoromethane

Data File: 2524070111.D Page 1
Report Date: 02-Jul-2024 13:17

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070111.D
Lab Smp Id: 3366026002 Client Smp ID: ICT4_062024
Inj Date : 01-JUL-2024 13:17
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026002;;1;;;;;20
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 11
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	196690	28.4999	569.997	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						RT
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						RT
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070111.D
Report Date: 02-Jul-2024 13:17

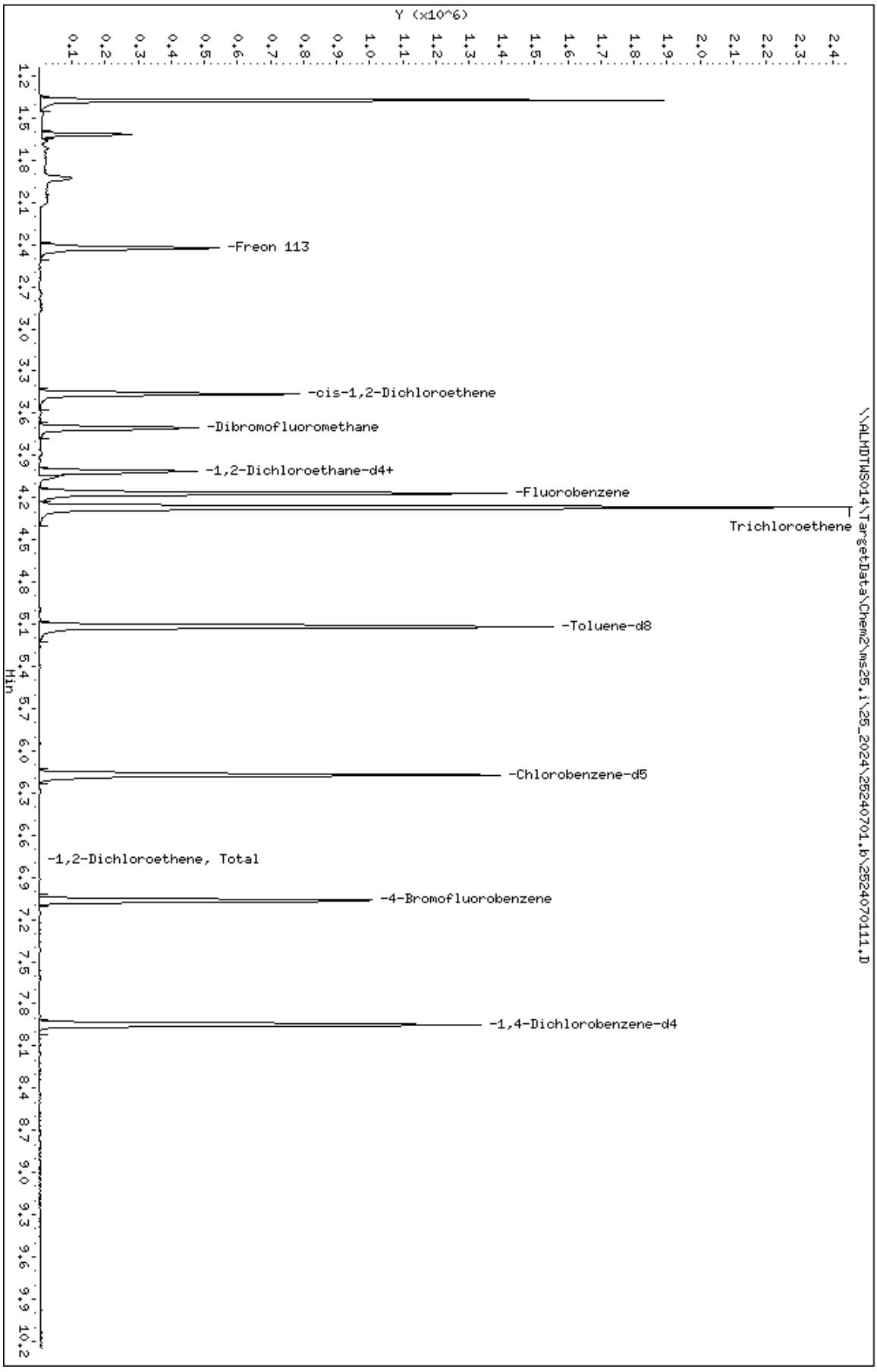
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	330835	33.9513	679.026	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				330835	33.9513	679.026	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	224970	27.9540	559.080	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						RT
	43 2-Butanone	72	Compound Not Detected.						RT
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	250970	29.5827	591.654	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	28566	2.84098	56.8196	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	1019967	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	630035	77.8283	1556.57	
	58 Methyl cyclohexane	83	Compound Not Detected.						SPC
	59 tert-Amyl Ethylether	59	Compound Not Detected.						RT
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	905746	30.0553	601.106	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070111.D Page 3
Report Date: 02-Jul-2024 13:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	380636	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	267551	29.3168	586.336		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	329885	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

Q - Qualifier signal failed the ratio test.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Sample Info: 33660260002;;1;;;;;20
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1
Y (x10^6)
Min
-Freon 113
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-1,2-Dichloroethane-d4+
-Fluorobenzene
Trichloroethene
-Toluene-d8
-Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
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Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070111.D Page 2

Date : 01-JUL-2024 13:17

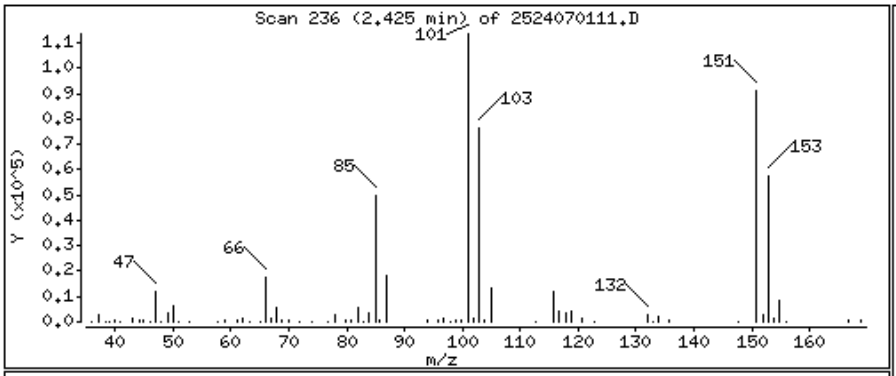
Client ID: ICT4_062024 Instrument: ms25.i

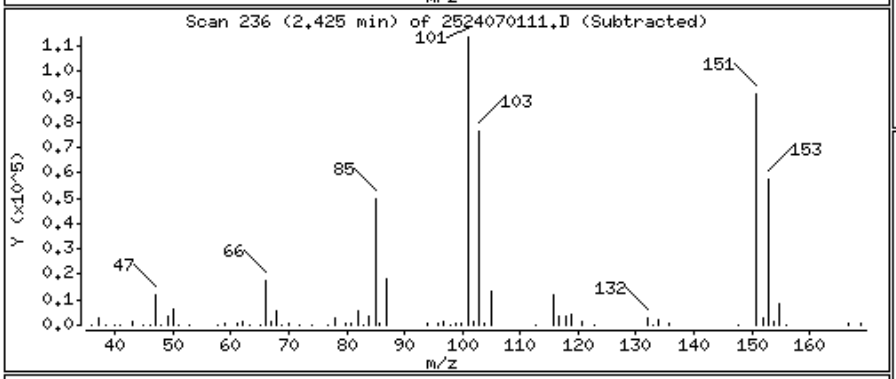
Sample Info: 3366026002;;1;;;;;20

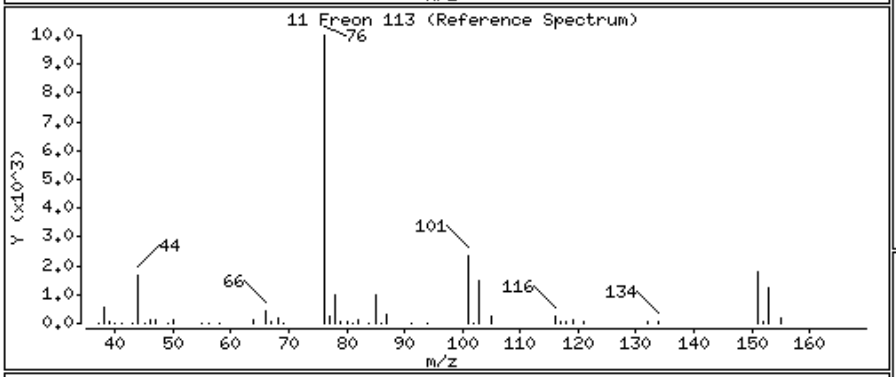
Purge Volume: 5.0 Operator: TMP

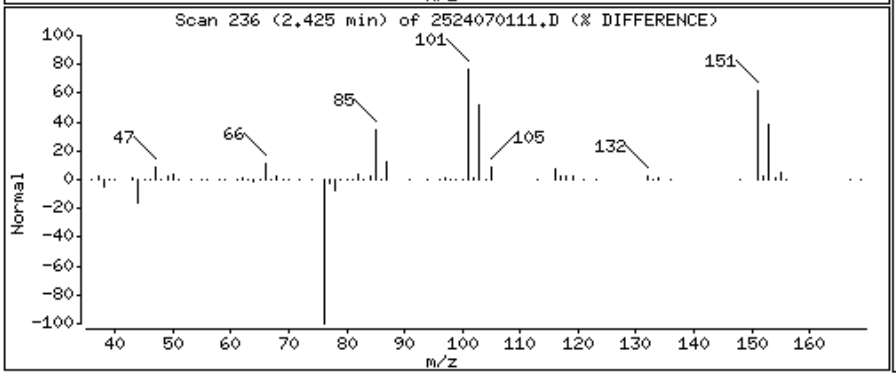
Column phase: DB-VRX Column diameter: 0.25

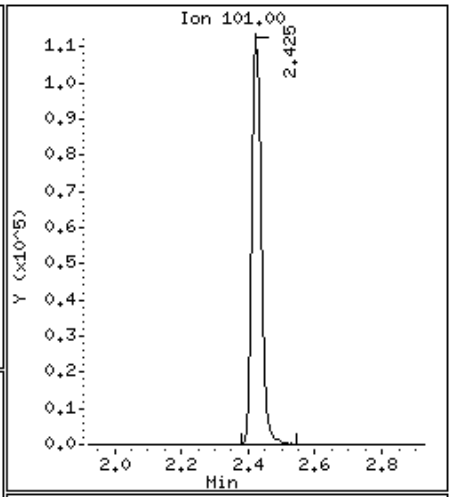
11 Freon 113 Concentration: 569.997 ug/L

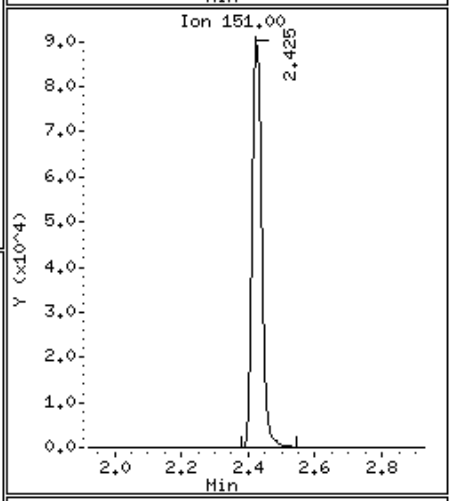


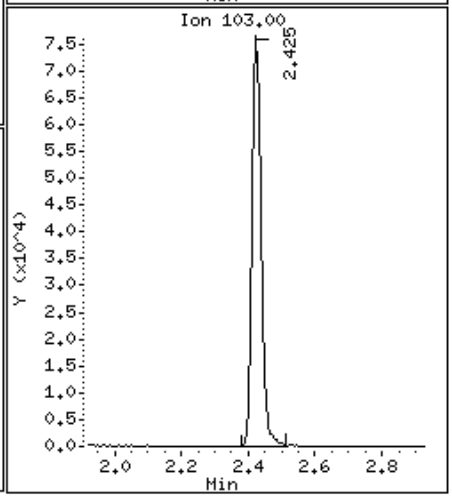












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070111.D Page 3

Date : 01-JUL-2024 13:17

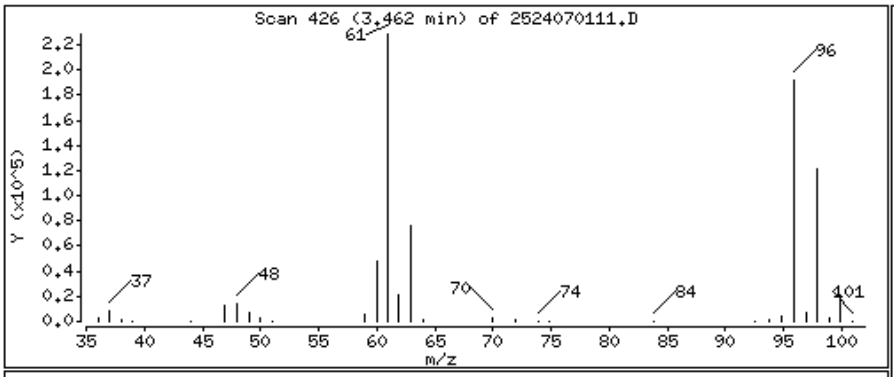
Client ID: ICT4_062024 Instrument: ms25.i

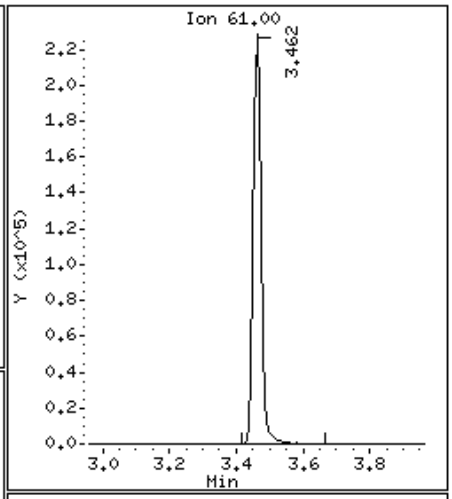
Sample Info: 3366026002;;1;;;;;20

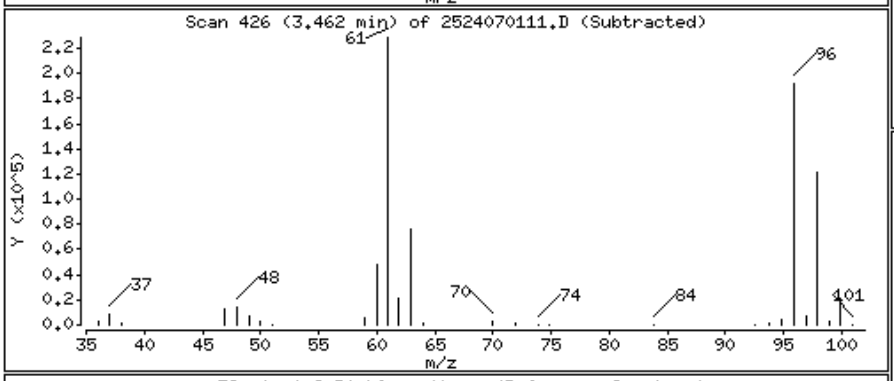
Purge Volume: 5.0 Operator: TMP

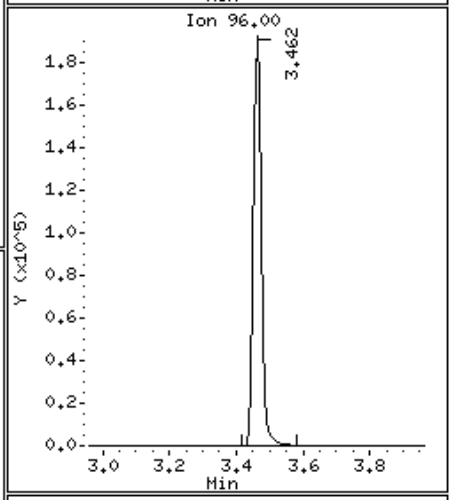
Column phase: DB-VRX Column diameter: 0.25

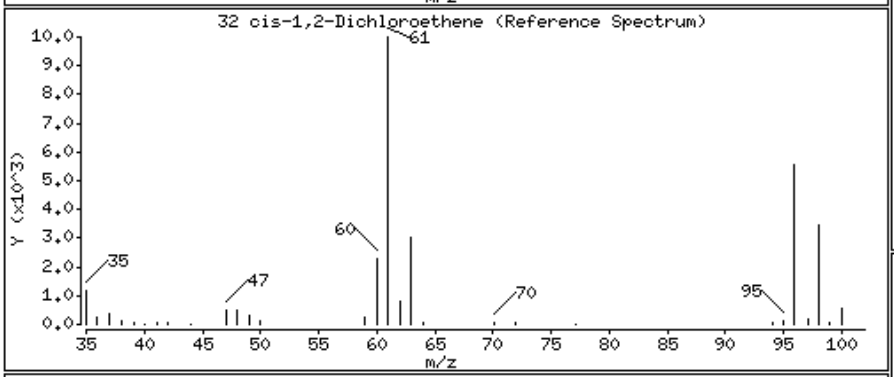
32 cis-1,2-Dichloroethene Concentration: 679.026 ug/L

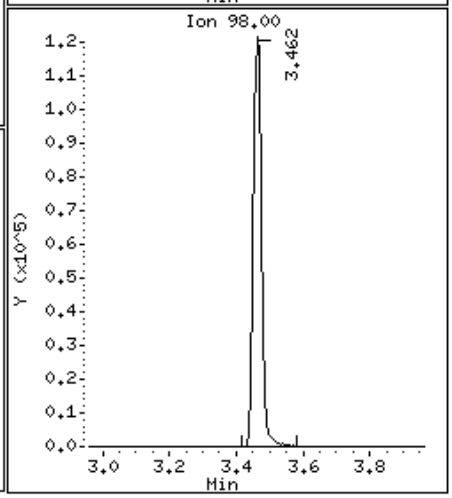


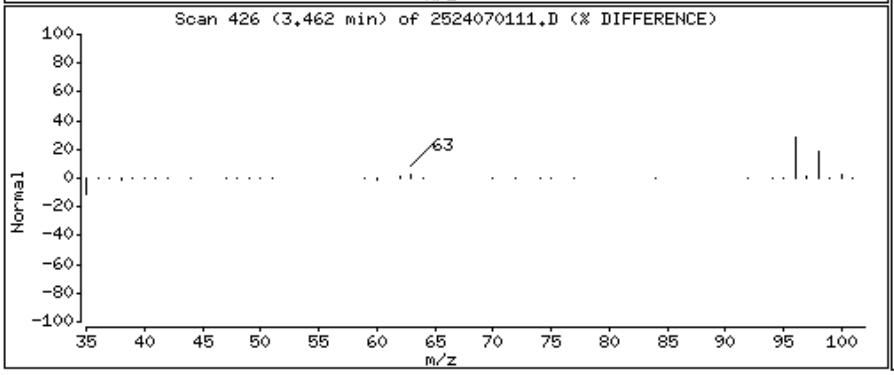












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070111.D Page 4

Date : 01-JUL-2024 13:17

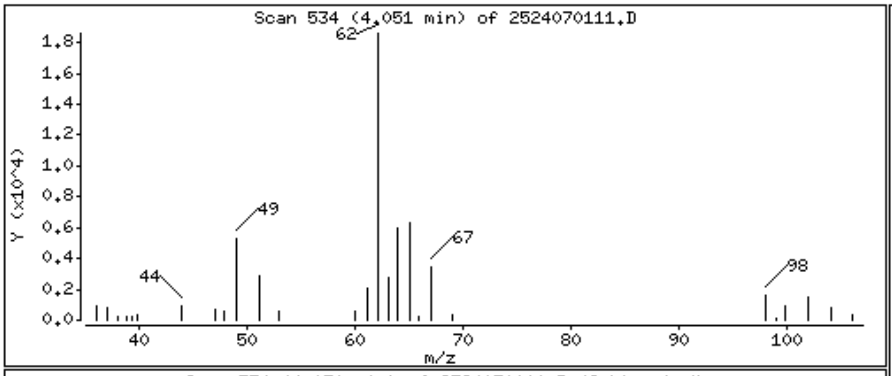
Client ID: ICT4_062024 Instrument: ms25.i

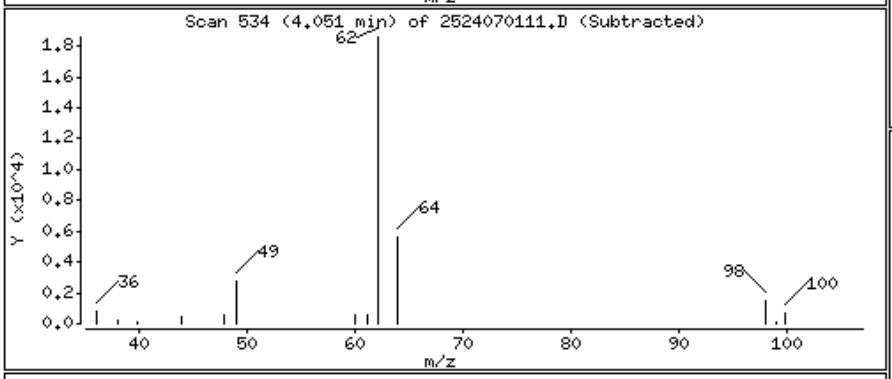
Sample Info: 3366026002;;1;;;;;20

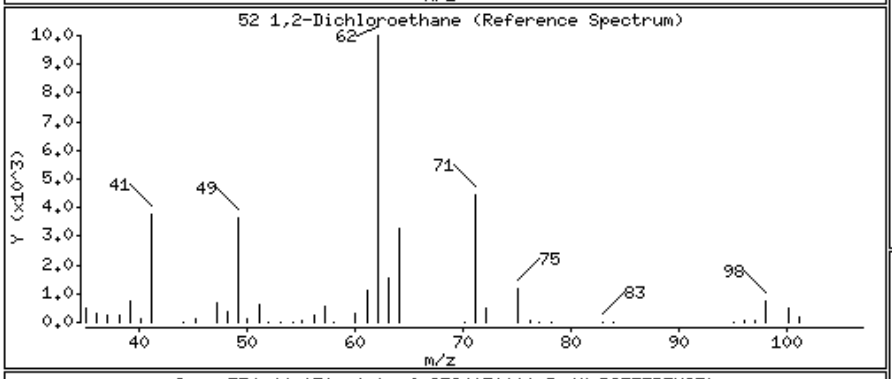
Purge Volume: 5.0 Operator: TMP

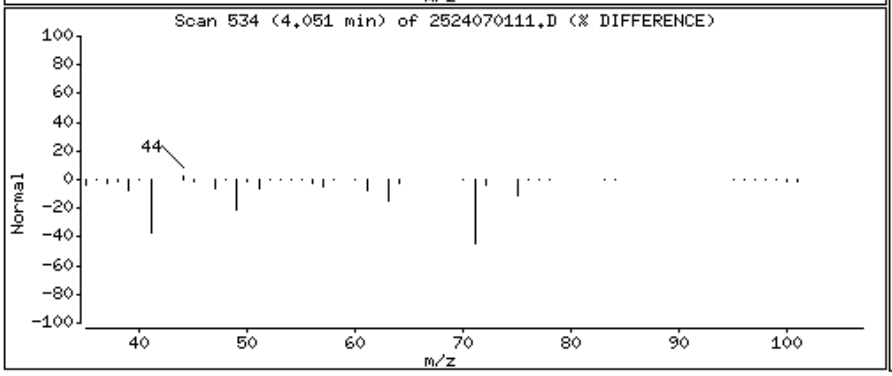
Column phase: DB-VRX Column diameter: 0.25

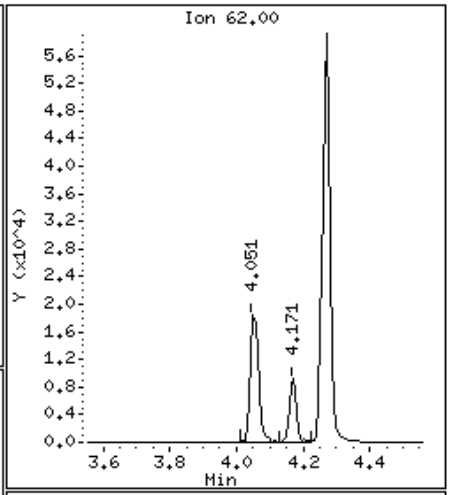
52 1,2-Dichloroethane Concentration: 56.8196 ug/L

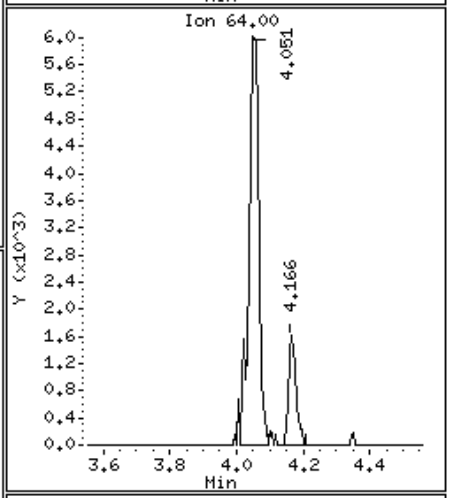


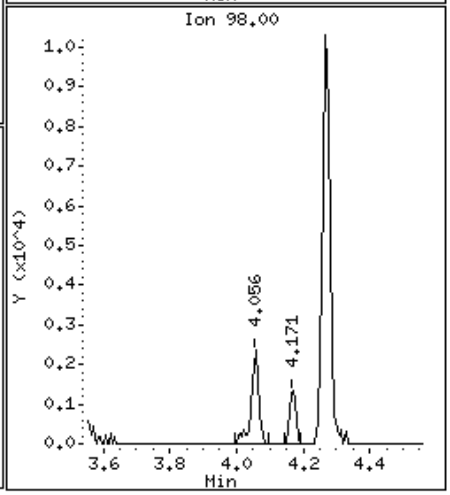












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070111.D Page 5

Date : 01-JUL-2024 13:17

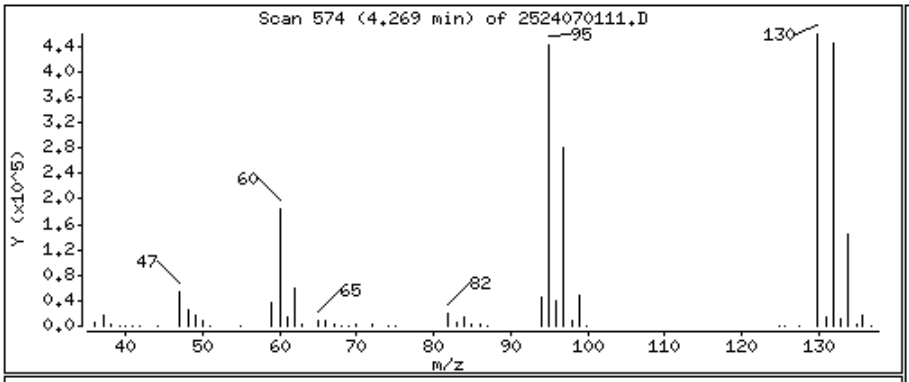
Client ID: ICT4_062024 Instrument: ms25.i

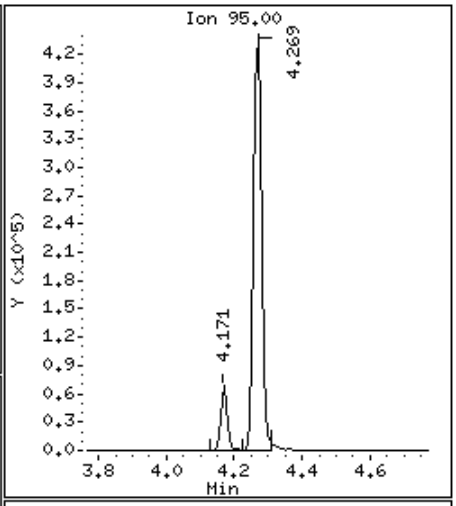
Sample Info: 3366026002;;1;;;;;20

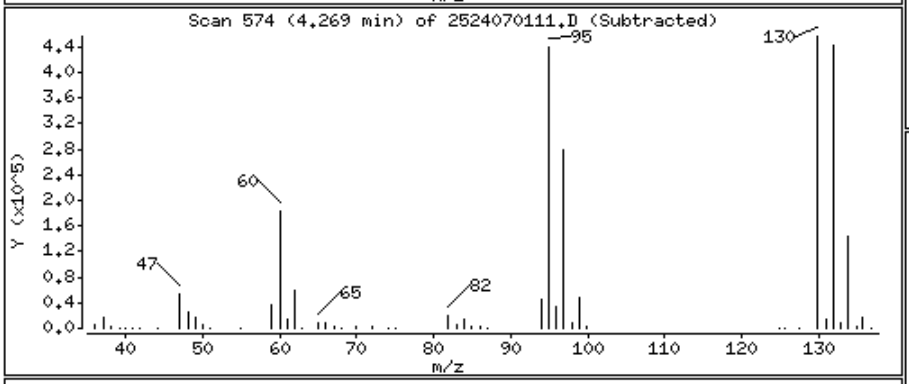
Purge Volume: 5.0 Operator: TMP

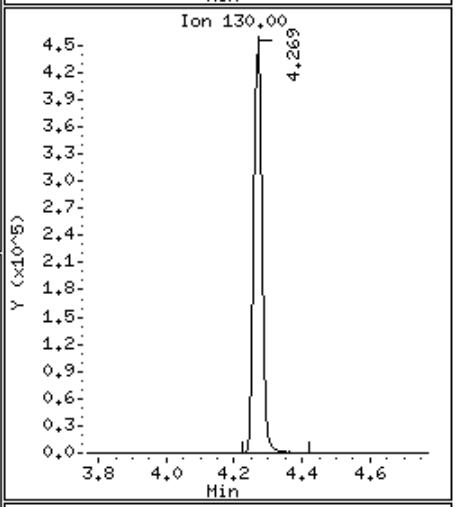
Column phase: DB-VRX Column diameter: 0.25

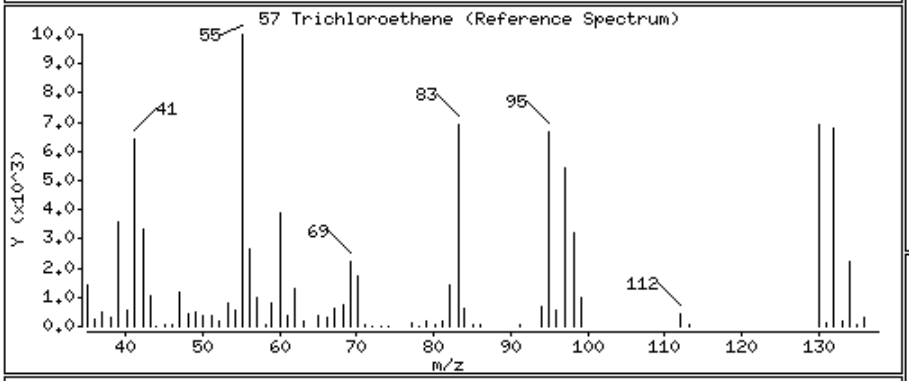
57 Trichloroethene Concentration: 1556.57 ug/L

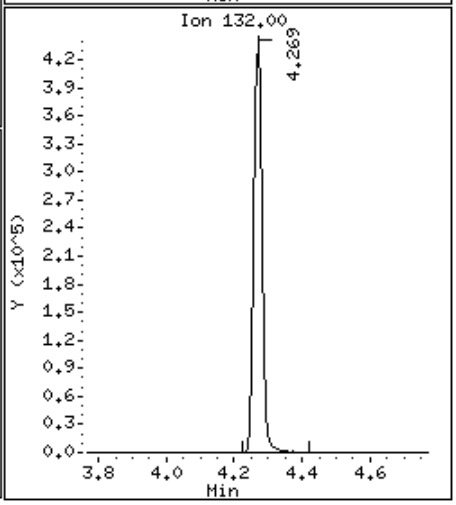


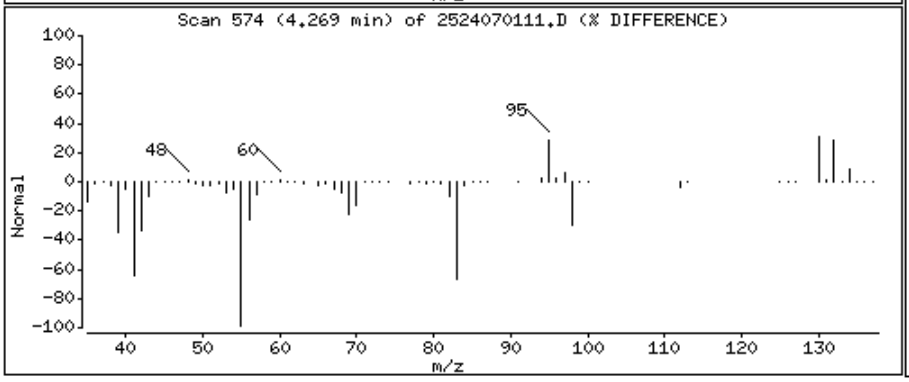












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070111.D
Inj Date : 01-JUL-2024 13:17
InstruID : ms25.i
LabSampID : 3366026002

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:17
Client ID: ICT4_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407011
Inj Date: 01-JUL-2024 13:17
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
tert-Amyl Ethylether
2-Butanone
3-Chloro-1-propene
Methacrylonitrile
Methylene Chloride
1,1,1-Trichloroethane
tert-Amyl Alcohol
Bromodichloromethane
1-Chlorohexane
Ethyl methacrylate
Methyl cyclohexane
2-Nitropropane
Trichlorofluoromethane

Data File: 2524070112.D Page 1
Report Date: 02-Jul-2024 13:17

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070112.D
Lab Smp Id: 3366026005 Client Smp ID: ICT11_062024
Inj Date : 01-JUL-2024 13:37
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026005;;1;;;;;5
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 12
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	59489	8.43319	42.1659	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070112.D
Report Date: 02-Jul-2024 13:17

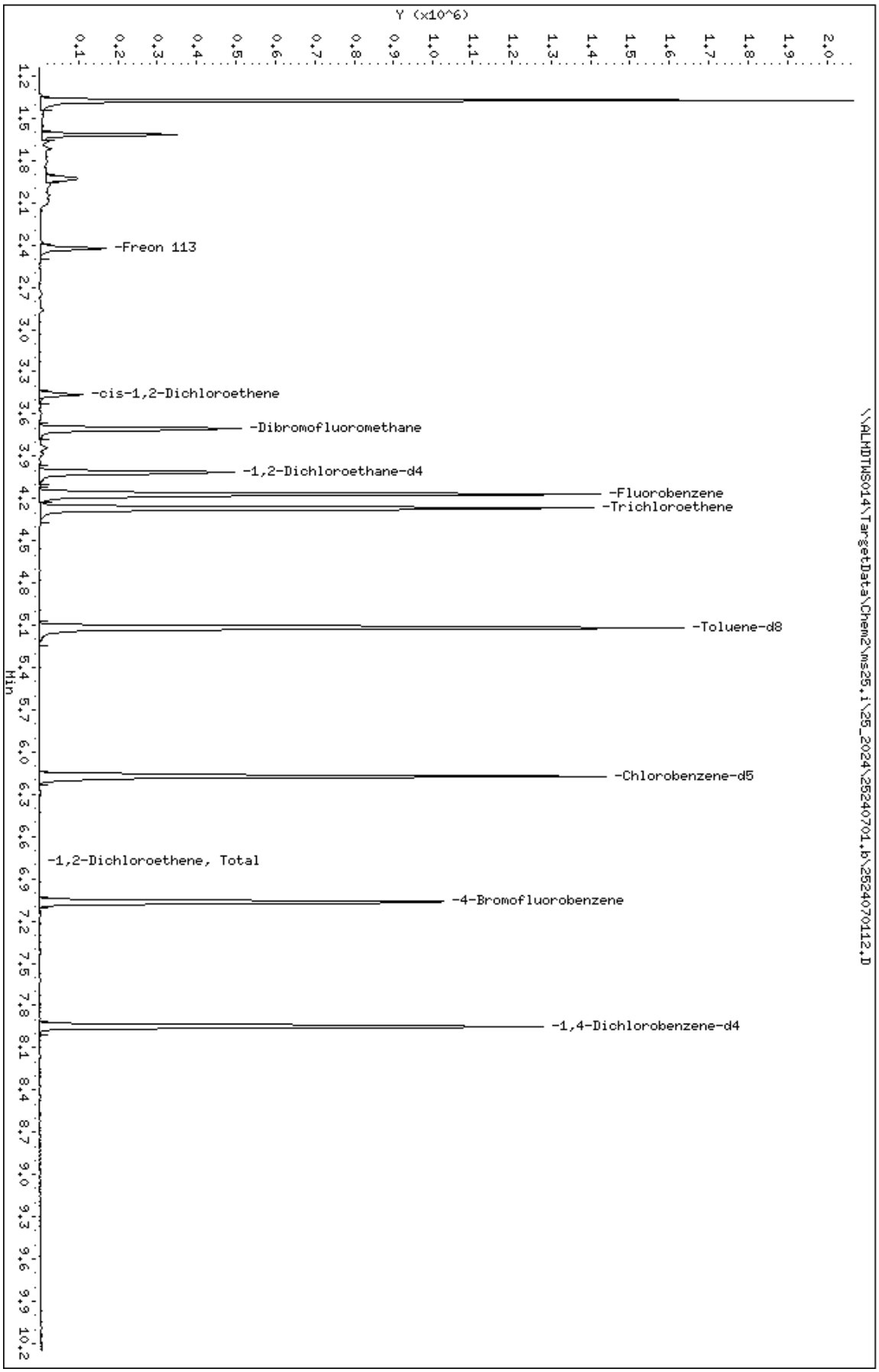
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	48623	4.88181	24.4091	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				48623	4.88181	24.4091	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	244610	29.7364	148.682	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						RT
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	272542	31.4300	157.150	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	1042537	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	360607	43.5815	217.907	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						RT
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	959373	32.1364	160.682	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070112.D Page 3
Report Date: 02-Jul-2024 13:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							RT
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	377064	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	272202	30.6236	153.118		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	321298	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

Q - Qualifier signal failed the ratio test.



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Date : 01-JUL-2024 13:37
Client ID: ICT11_062024
Sample Info: 33660260005;;1;;;;;5
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: TMP
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070112.D Page 2

Date : 01-JUL-2024 13:37

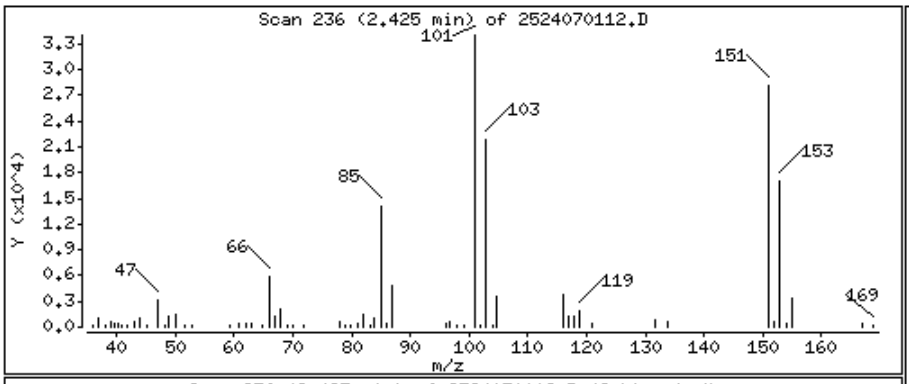
Client ID: ICT11_062024 Instrument: ms25.i

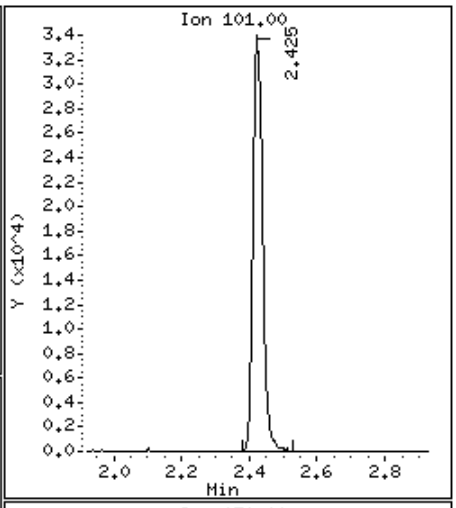
Sample Info: 3366026005;;1;;;;;5

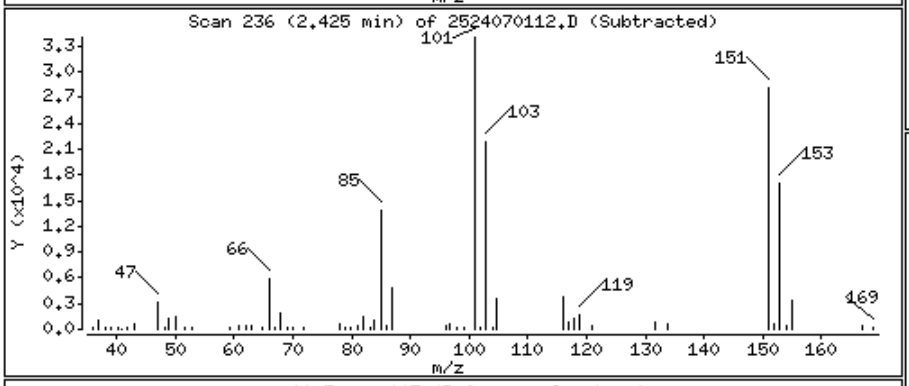
Purge Volume: 5.0 Operator: TMP

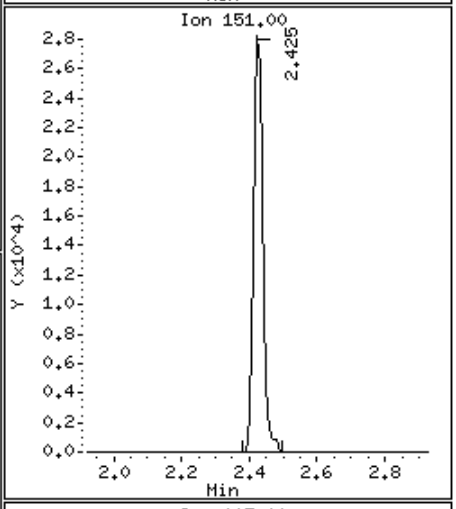
Column phase: DB-VRX Column diameter: 0.25

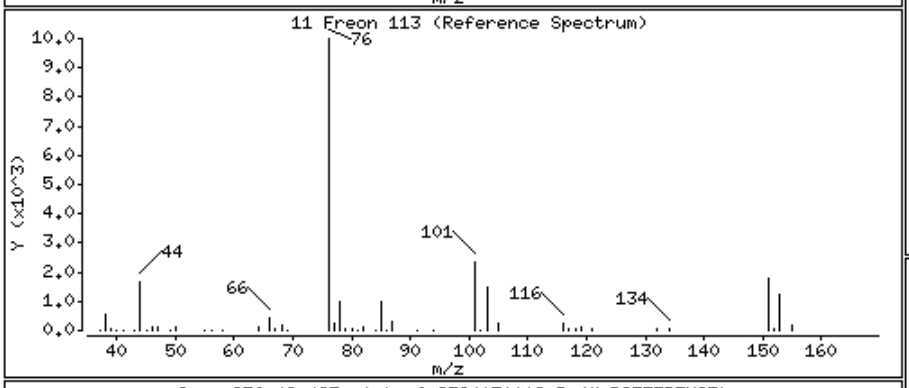
11 Freon 113 Concentration: 42.1659 ug/L

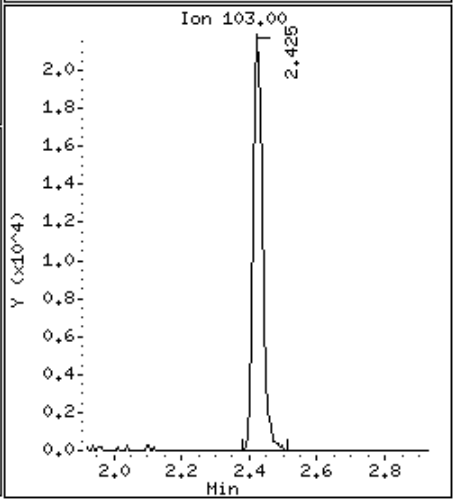


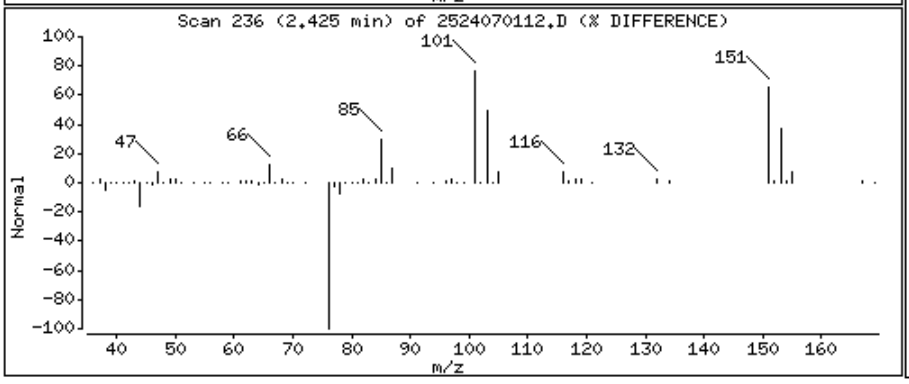












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070112.D Page 3

Date : 01-JUL-2024 13:37

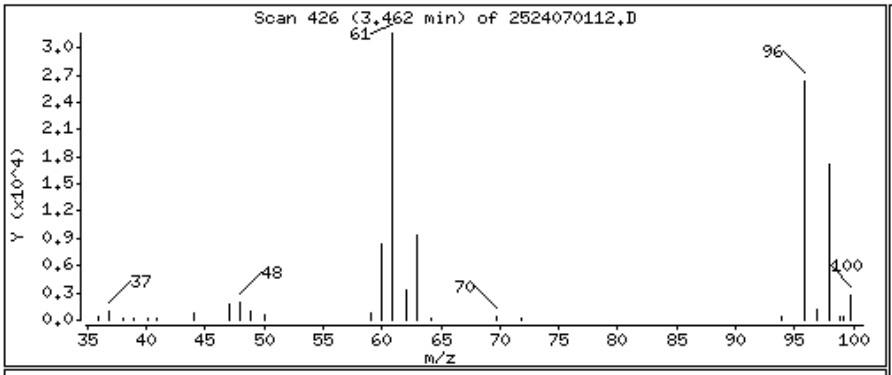
Client ID: ICT11_062024 Instrument: ms25.i

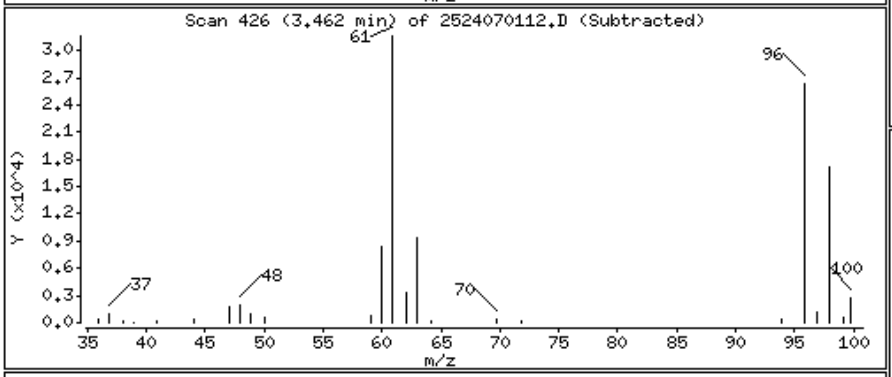
Sample Info: 3366026005;;1;;;;;5

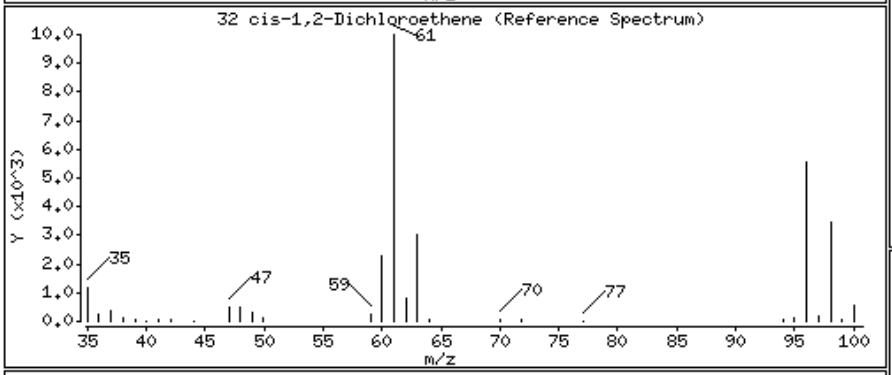
Purge Volume: 5.0 Operator: TMP

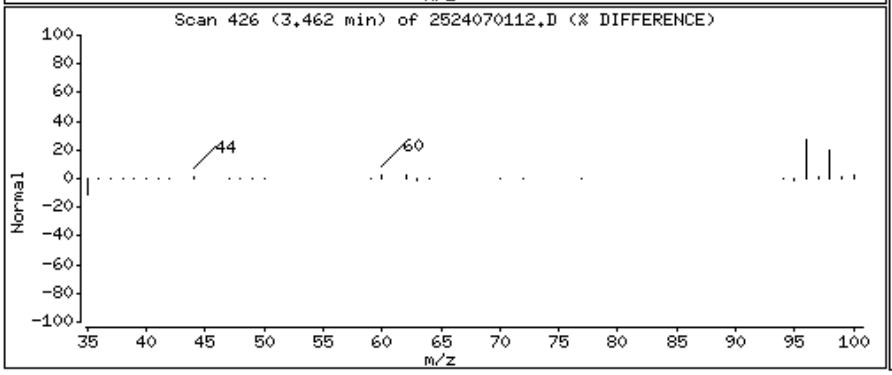
Column phase: DB-VRX Column diameter: 0.25

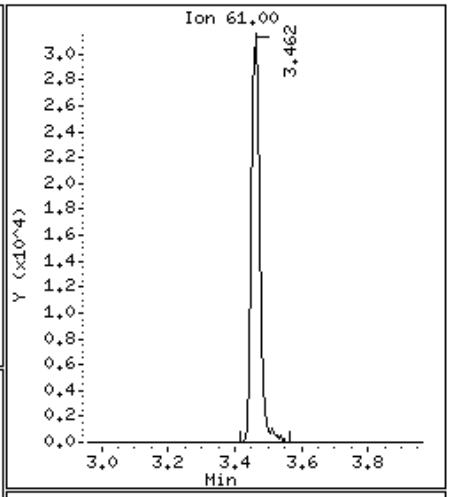
32 cis-1,2-Dichloroethene Concentration: 24.4091 ug/L

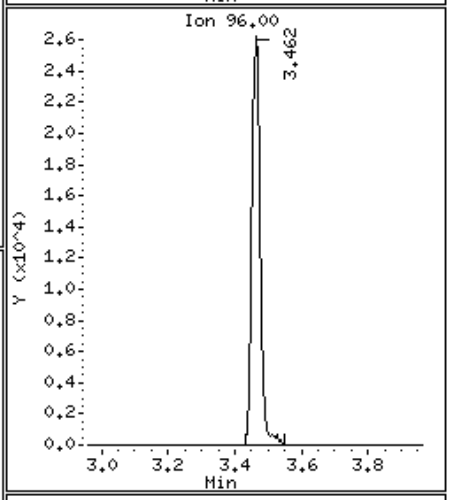


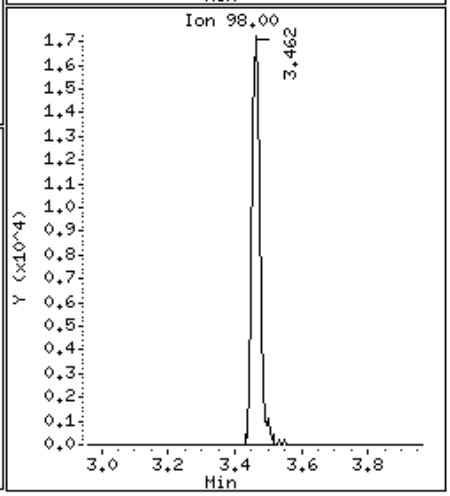












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070112.D Page 4

Date : 01-JUL-2024 13:37

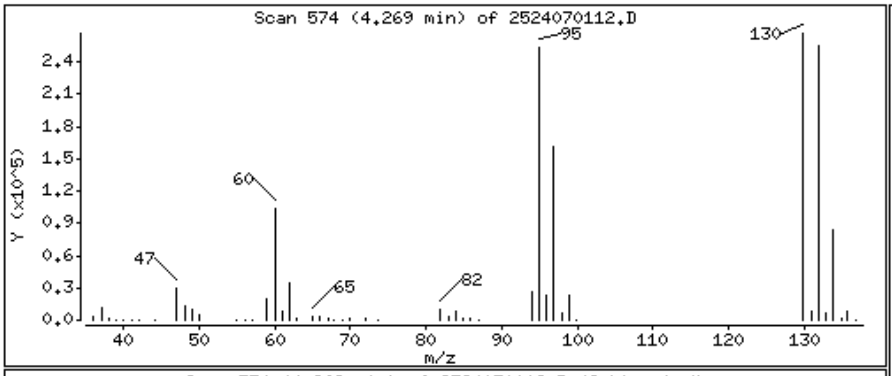
Client ID: ICT11_062024 Instrument: ms25.i

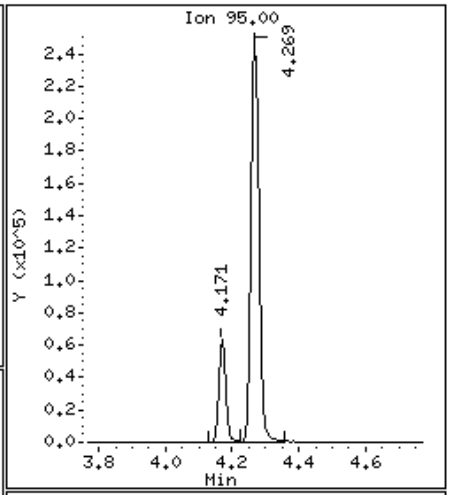
Sample Info: 3366026005;;1;;;;;5

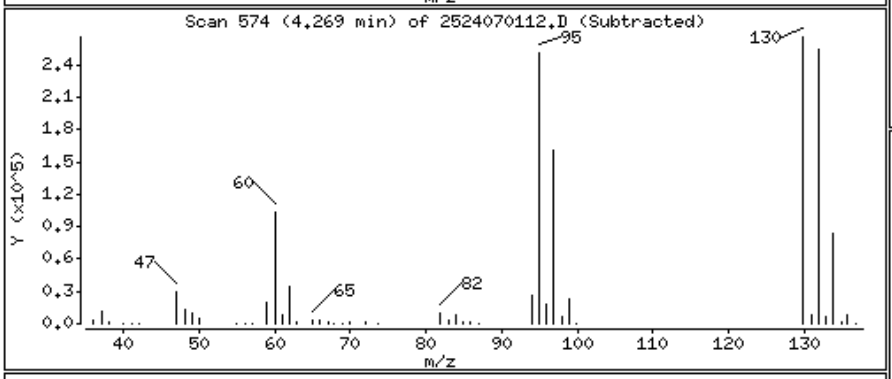
Purge Volume: 5.0 Operator: TMP

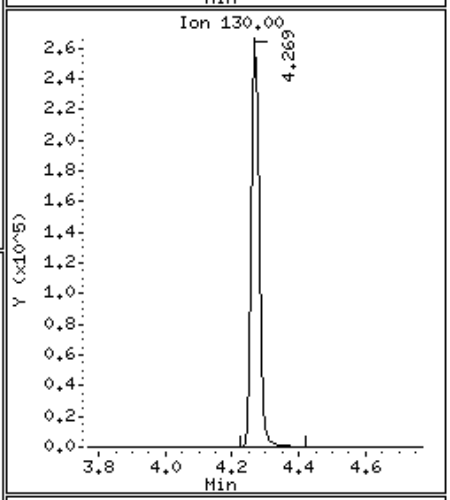
Column phase: DB-VRX Column diameter: 0.25

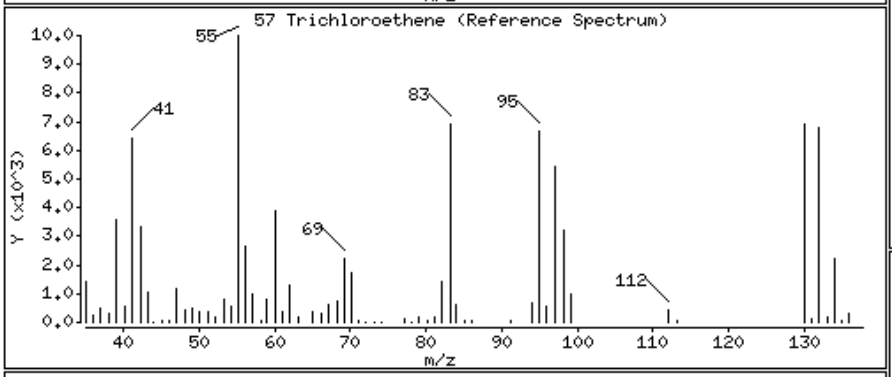
57 Trichloroethene Concentration: 217.907 ug/L

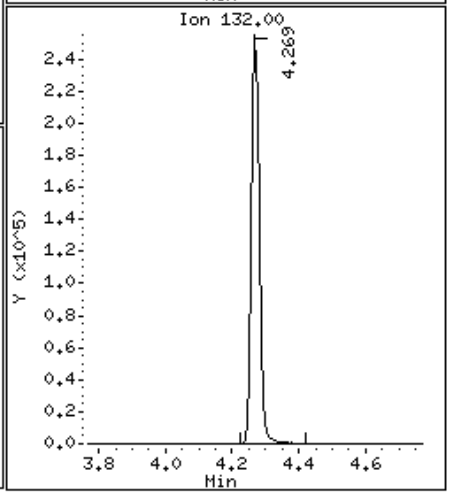


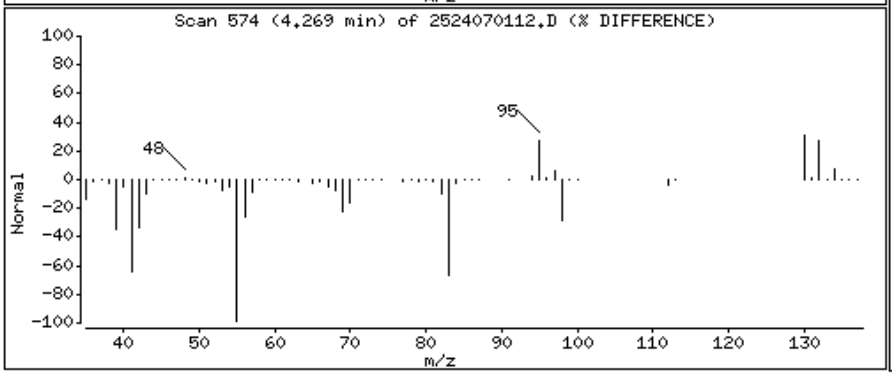












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070112.D
Inj Date : 01-JUL-2024 13:37
InstruID : ms25.i
LabSampID : 3366026005

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:17
Client ID: ICT11_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/2524070112
Inj Date: 01-JUL-2024 13:37
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
tert-Amyl Alcohol
Bromodichloromethane
1-Chlorohexane
Ethyl methacrylate
2-Hexanone
2-Nitropropane
tert-amyl methyl Ether
tert-Amyl Ethylether
Chloroethane
1,2-Dichloroethane
Heptane
Methacrylonitrile
Trichlorofluoromethane

Data File: 2524070113.D Page 1
Report Date: 02-Jul-2024 13:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070113.D
Lab Smp Id: 3366026006 Client Smp ID: ICT12A_062024
Inj Date : 01-JUL-2024 13:58
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026006;;1;;;;;10
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 13
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						RT
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	72079	10.2229	102.229	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070113.D
Report Date: 02-Jul-2024 13:18

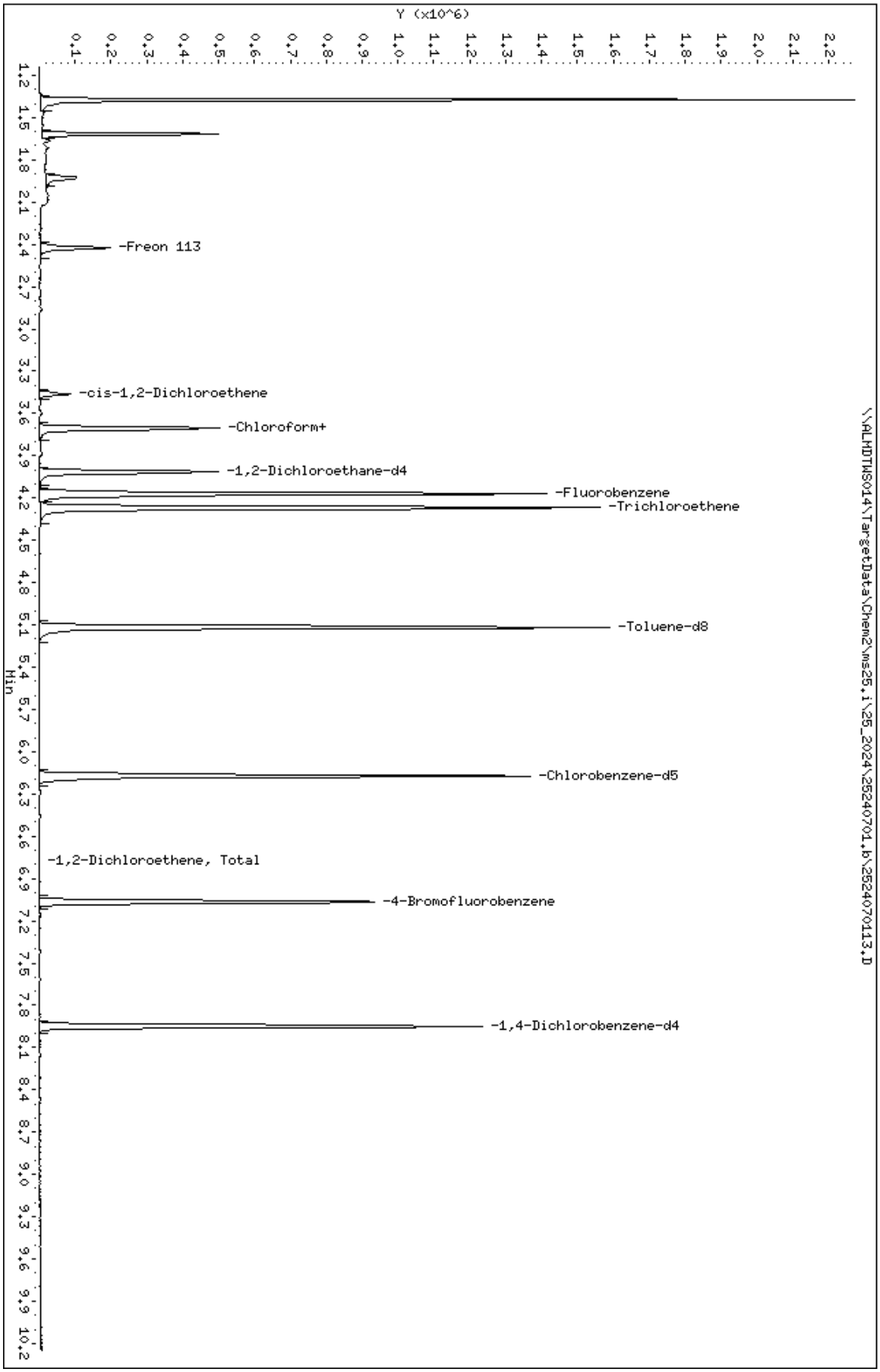
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	36702	3.68672	36.8672	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				36702	3.68672	36.8672	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.597	3.597	(0.863)	4032	0.27922	2.79223(a)	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	243971	29.6731	296.731	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	264264	30.4902	304.902	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	1042030	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	410555	49.6421	496.421	
	58 Methyl cyclohexane	83	Compound Not Detected.						SPC
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	916260	30.9757	309.757	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070113.D Page 3
Report Date: 02-Jul-2024 13:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	373613	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	245911	29.1172	291.172		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	305282	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



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Date : 01-JUL-2024 13:58
Client ID: ICT12A_062024
Sample Info: 336602600611111110
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: TMP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070113.D Page 2

Date : 01-JUL-2024 13:58

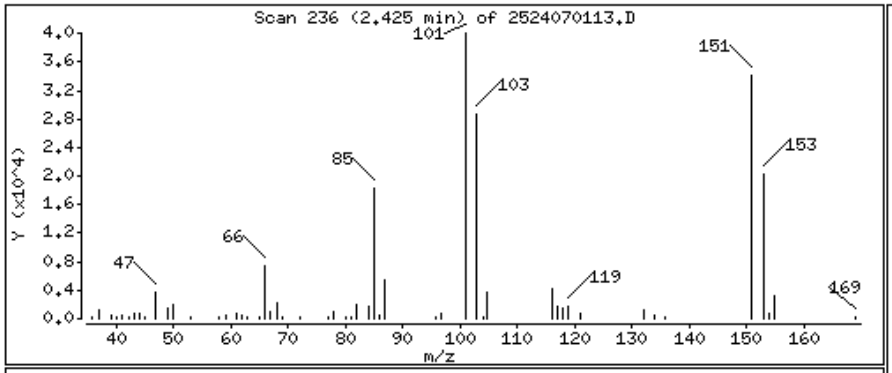
Client ID: ICT12A_062024 Instrument: ms25.i

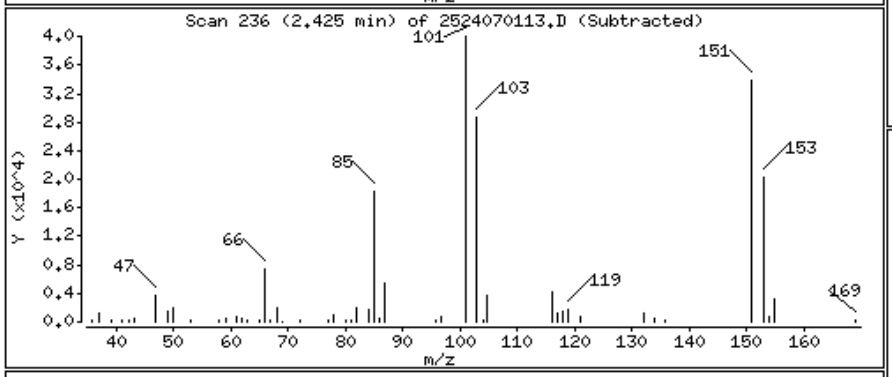
Sample Info: 3366026006;;1;;;;;10

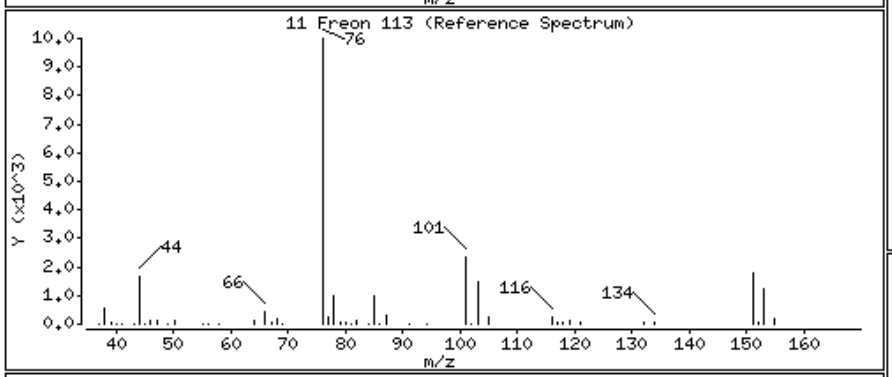
Purge Volume: 5.0 Operator: TMP

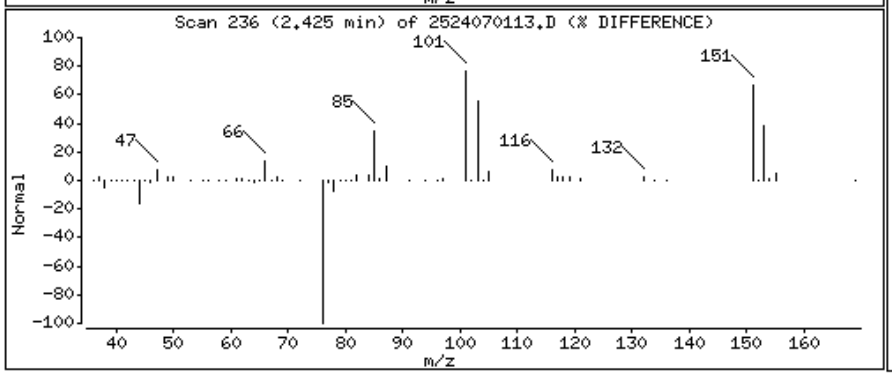
Column phase: DB-VRX Column diameter: 0.25

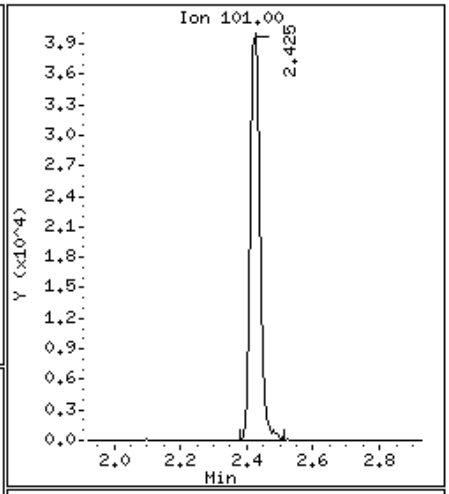
11 Freon 113 Concentration: 102.229 ug/L

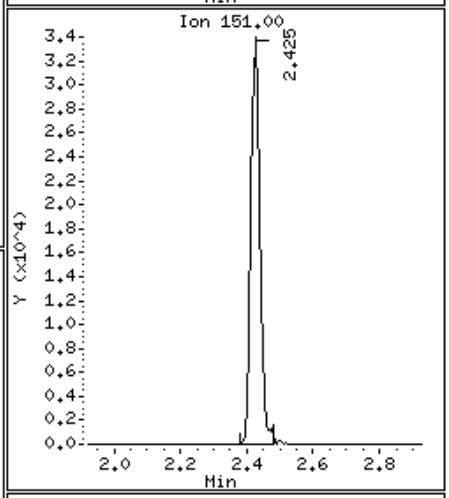


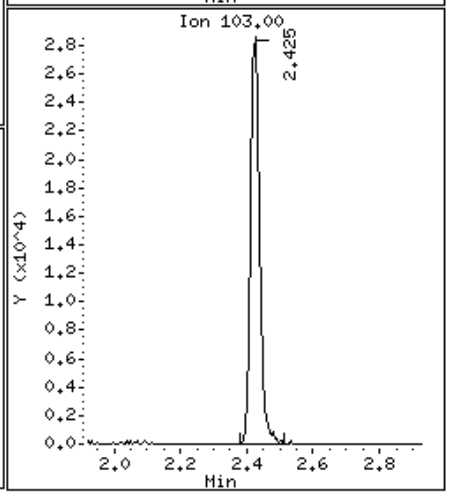












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070113.D Page 3

Date : 01-JUL-2024 13:58

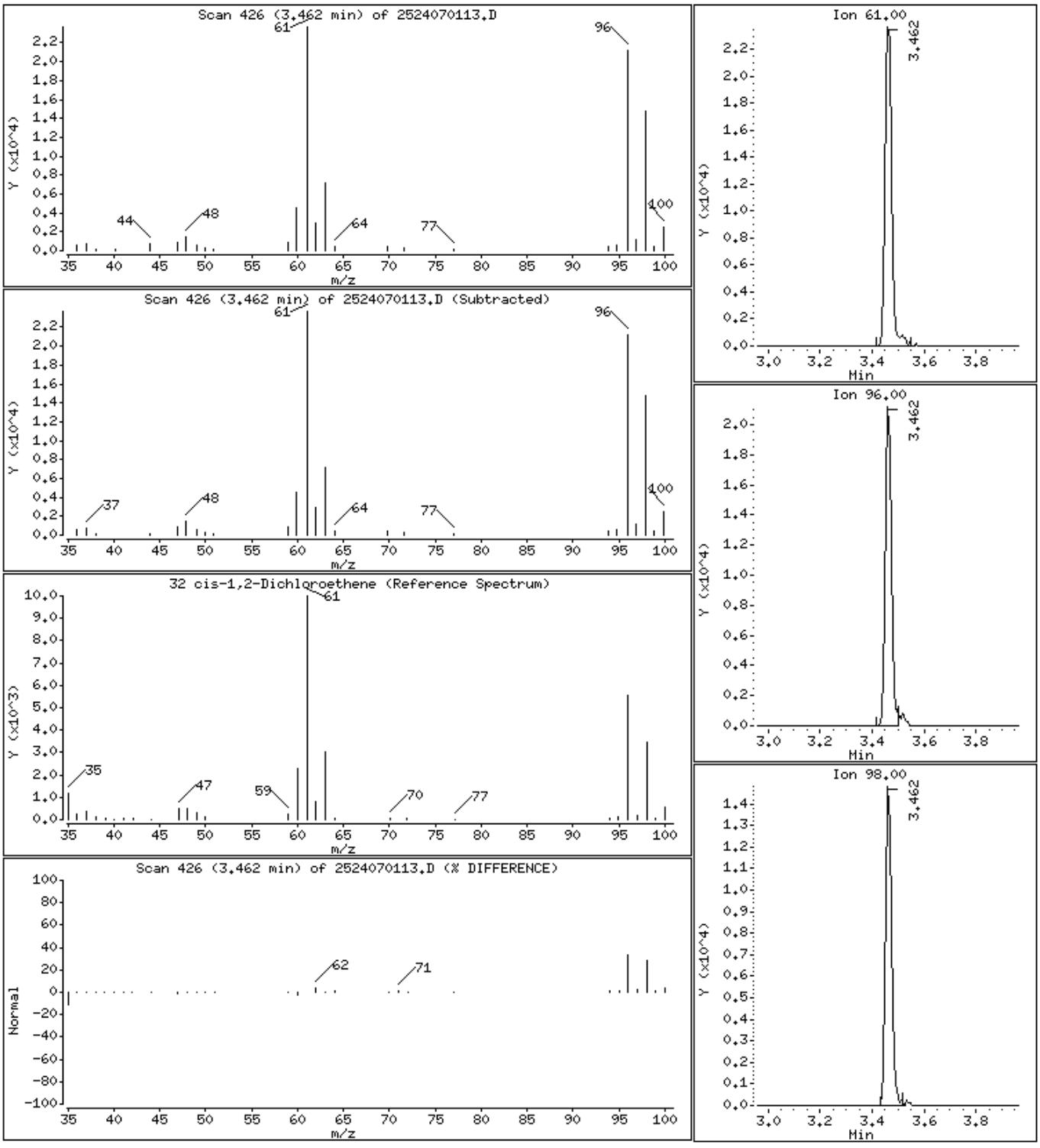
Client ID: ICT12A_062024 Instrument: ms25.i

Sample Info: 3366026006;;1;;;;;10

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

32 cis-1,2-Dichloroethene Concentration: 36.8672 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070113.D Page 4

Date : 01-JUL-2024 13:58

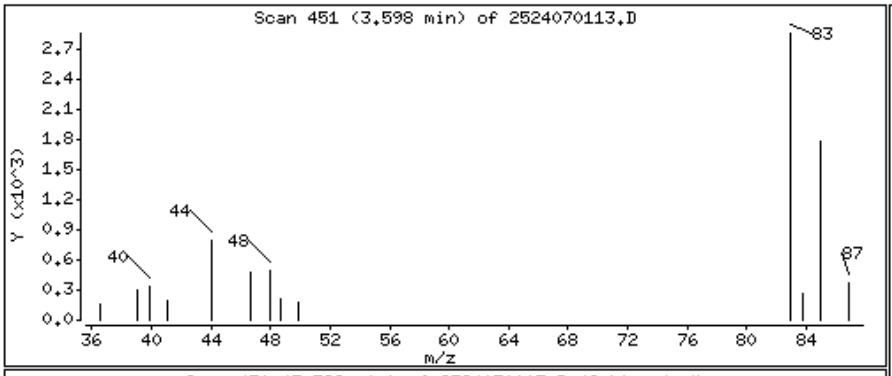
Client ID: ICT12A_062024 Instrument: ms25.i

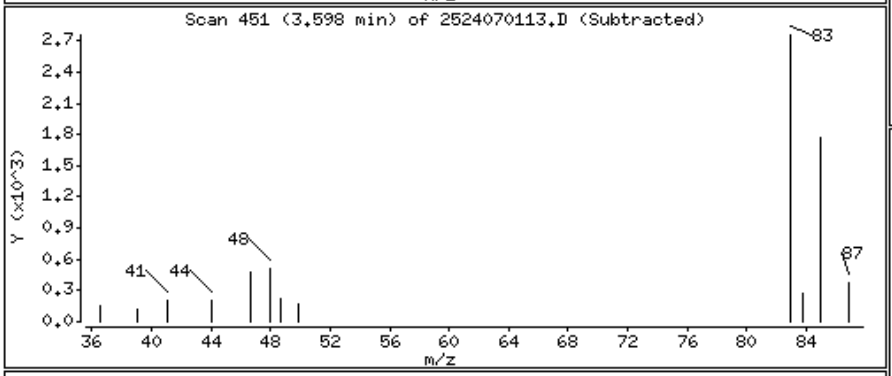
Sample Info: 3366026006;;1;;;;;10

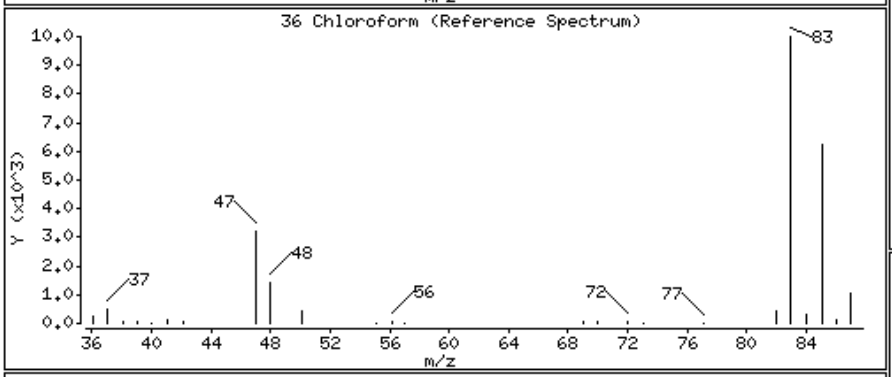
Purge Volume: 5.0 Operator: TMP

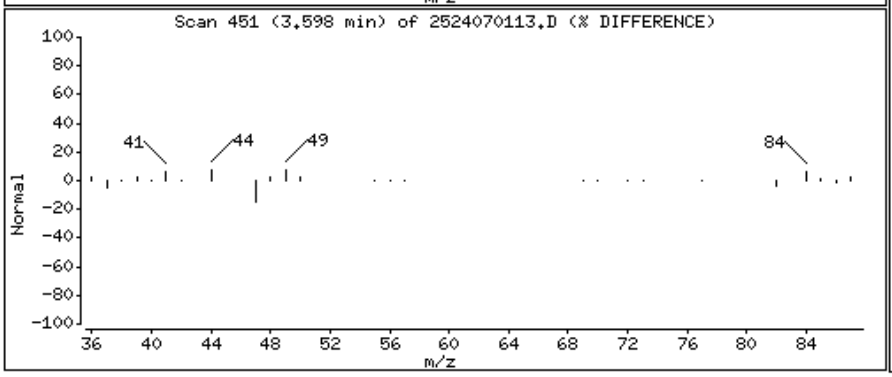
Column phase: DB-VRX Column diameter: 0.25

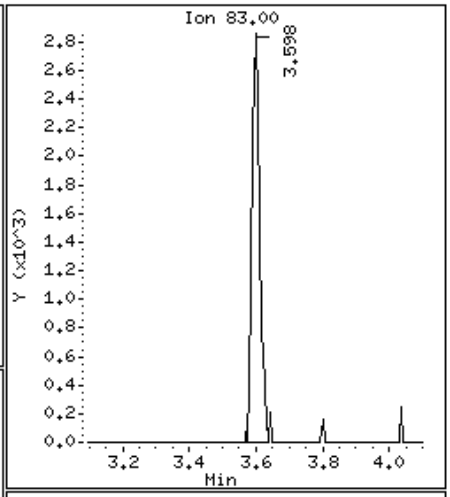
36 Chloroform Concentration: 2.79223 ug/L

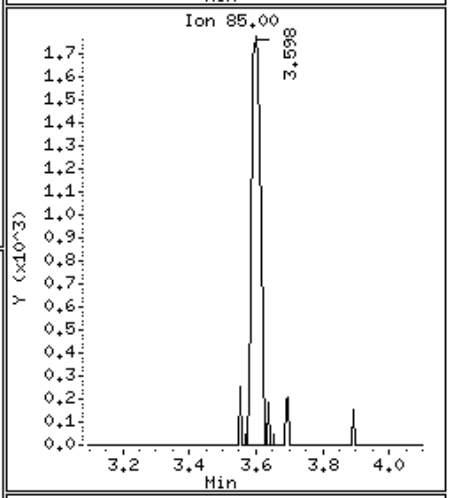


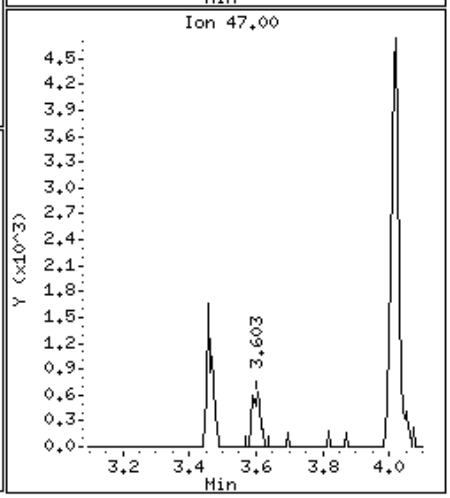












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070113.D Page 5

Date : 01-JUL-2024 13:58

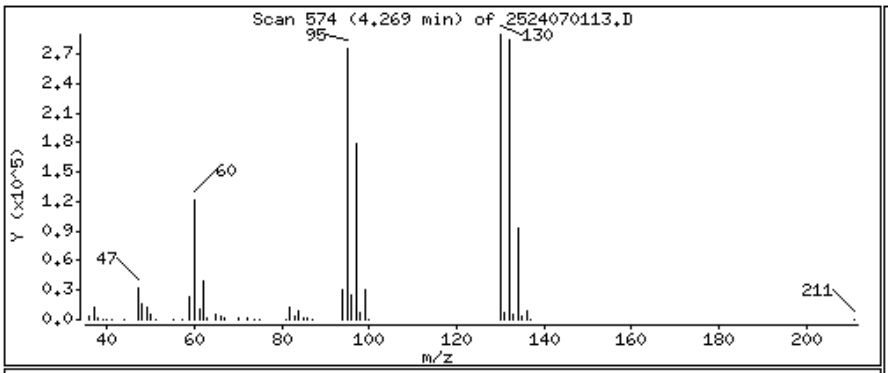
Client ID: ICT12A_062024 Instrument: ms25.i

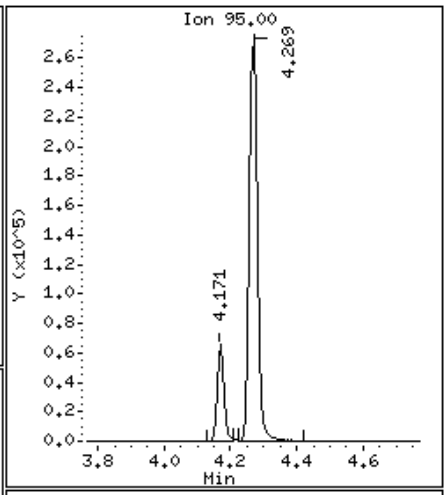
Sample Info: 3366026006;;1;;;;;10

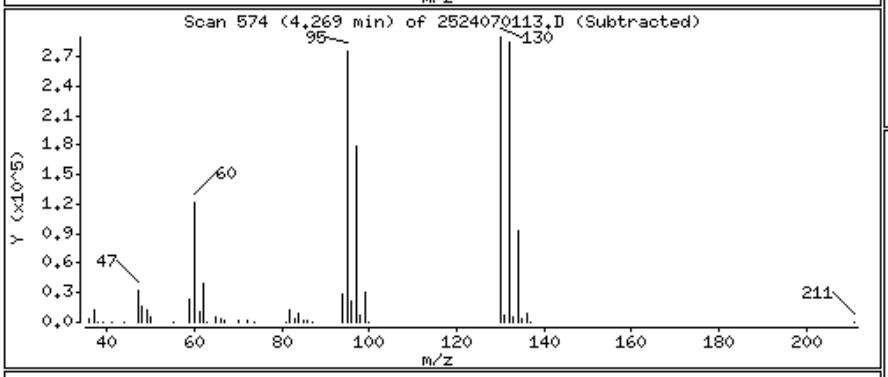
Purge Volume: 5.0 Operator: TMP

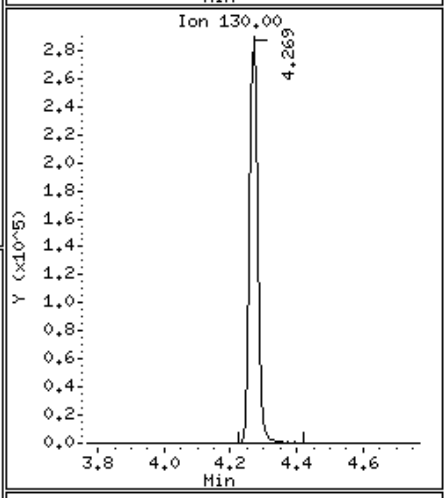
Column phase: DB-VRX Column diameter: 0.25

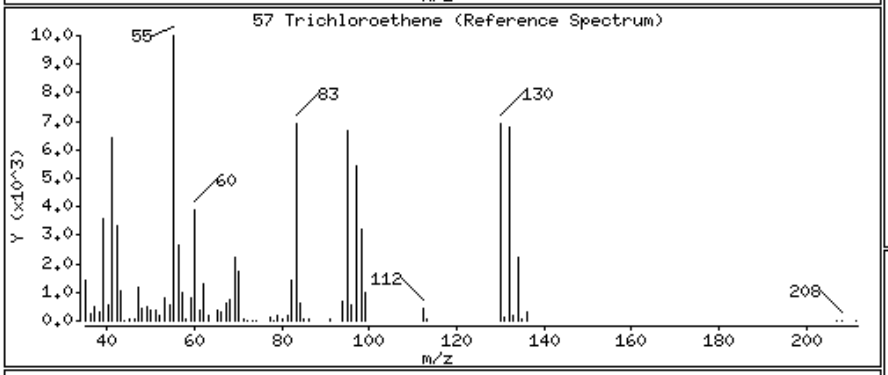
57 Trichloroethene Concentration: 496.421 ug/L

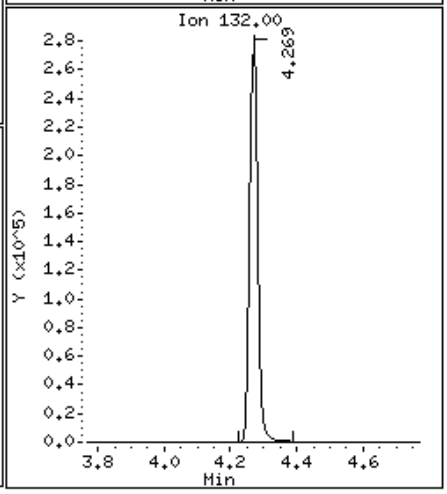


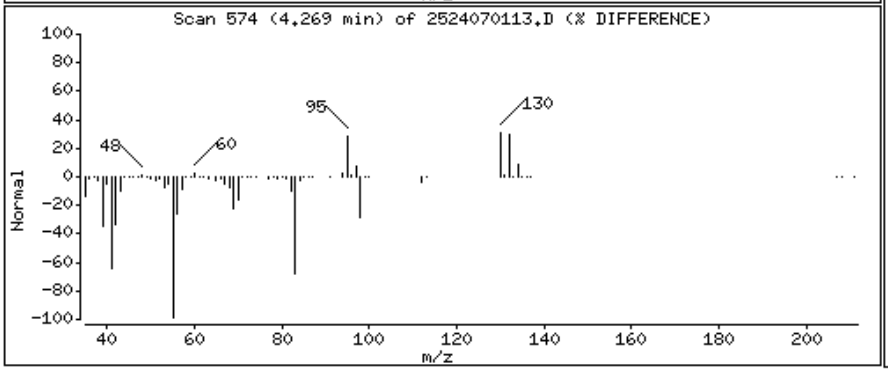












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070113.D
Inj Date : 01-JUL-2024 13:58
InstruID : ms25.i
LabSampID : 3366026006

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:18
Client ID: ICT12A_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407011
Inj Date: 01-JUL-2024 13:58
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	tert-Amyl Alcohol
Bromodichloromethane	Chloroethane
1-Chlorohexane	1,2-Dichloroethane
Ethyl methacrylate	Heptane
Methyl cyclohexane	2-Nitropropane
Trichlorofluoromethane	Vinyl Chloride

Data File: 2524070114.D Page 1
Report Date: 02-Jul-2024 13:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070114.D
Lab Smp Id: 3366026007 Client Smp ID: ICT12B_062024
Inj Date : 01-JUL-2024 14:18
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026007;;1;;;;;100
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 14
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	47513	6.98311	698.311	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						RT
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070114.D Page 2
Report Date: 02-Jul-2024 13:18

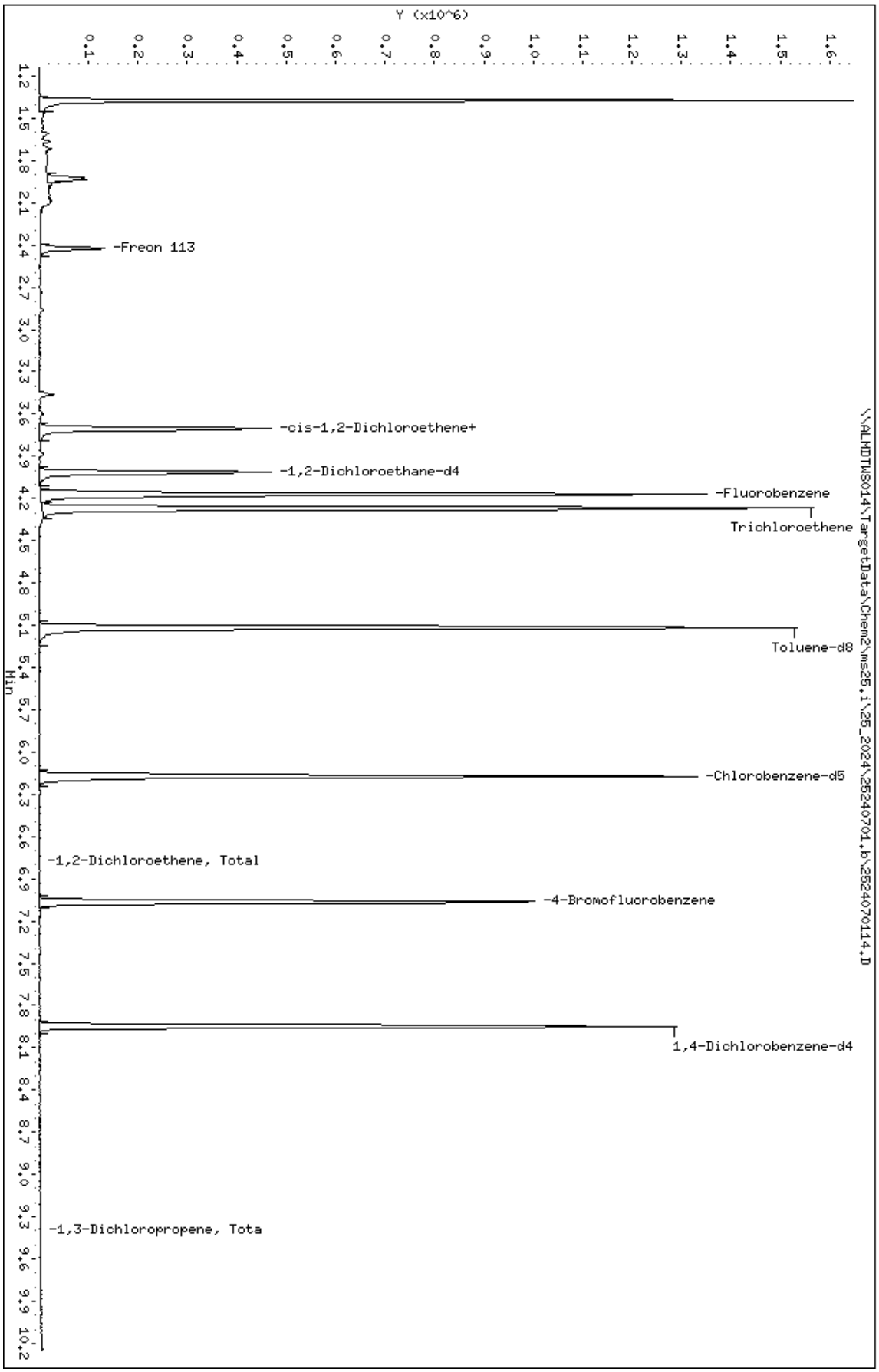
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	12124	1.26202	126.202	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				12124	1.26202	126.202(a)	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.598	3.597	(0.863)	4011	0.28784	28.7842(a)	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	220912	27.8429	2784.29	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						RT
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	251149	30.0278	3002.78	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	1005565	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	422221	52.9040	5290.40	
	58 Methyl cyclohexane	83	Compound Not Detected.						SPC
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.114	5.120	(0.829)	883385	30.4114	3041.14	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						RT
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070114.D Page 3
Report Date: 02-Jul-2024 13:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	366892	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	260007	29.7969	2979.69		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	315418	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.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Date : 01-JUL-2024 14:18
Client ID: ICT12B_062024
Sample Info: 336602600?;;1;;;;;100
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1
Y (x10^6)
Min
\\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\2524070i,b\2524070114.D
-Freon 113
-cis-1,2-Dichloroethene+
-1,2-Dichloroethane-d4
-Fluorobenzene
Trichloroethene
Toluene-d8
-Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
-1,3-Dichloropropene, Tota

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070114.D Page 2

Date : 01-JUL-2024 14:18

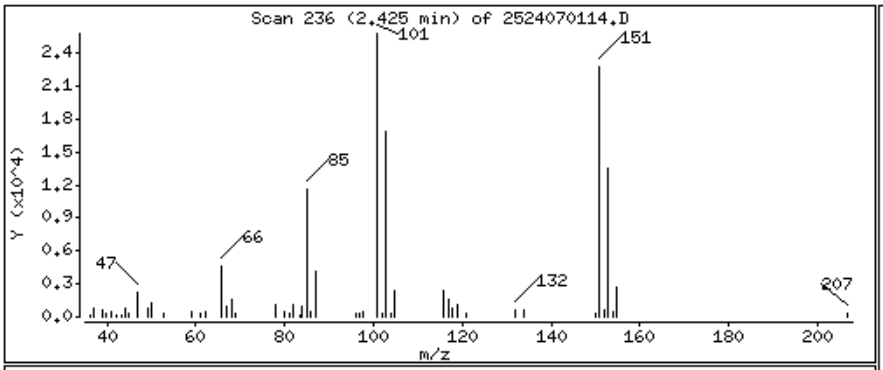
Client ID: ICT12B_062024 Instrument: ms25.i

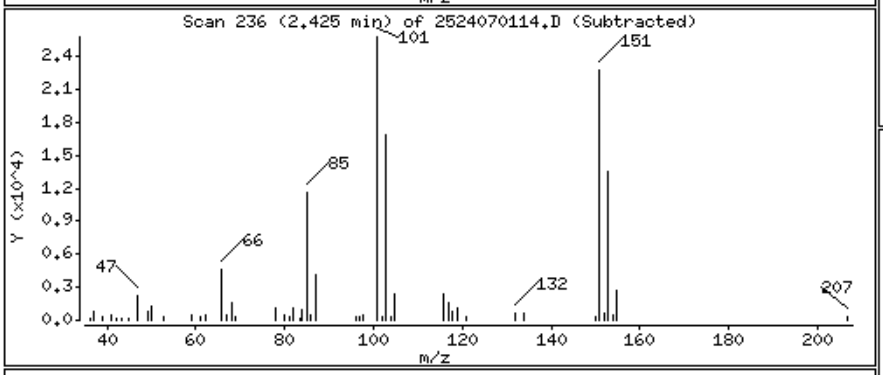
Sample Info: 3366026007;;1;;;;;100

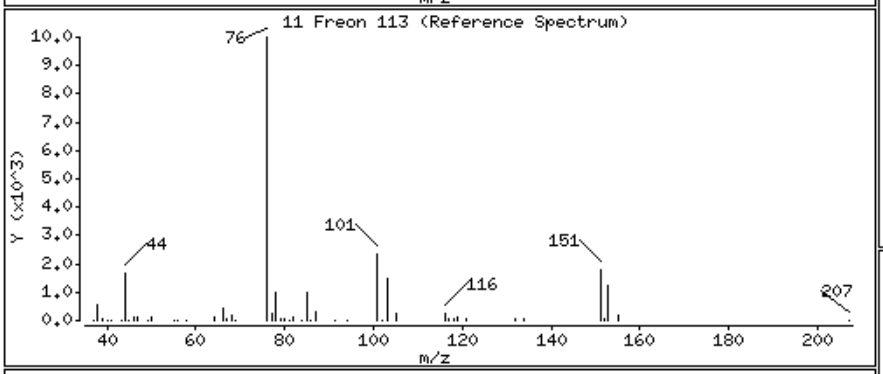
Purge Volume: 5.0 Operator: TMP

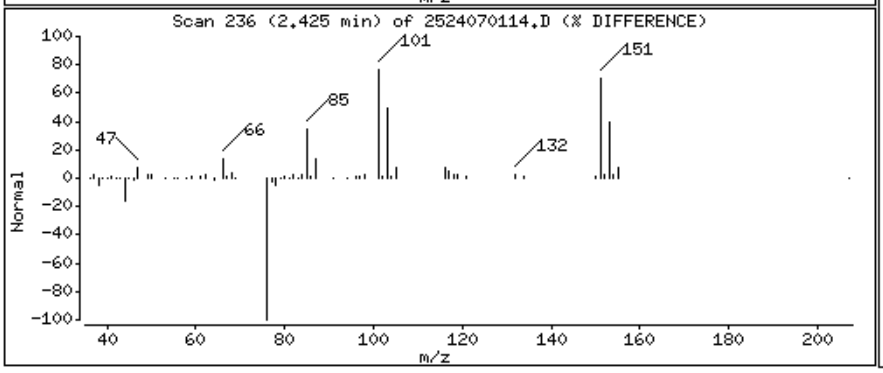
Column phase: DB-VRX Column diameter: 0.25

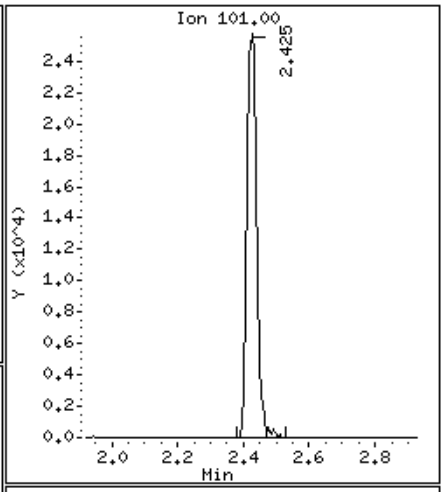
11 Freon 113 Concentration: 698.311 ug/L

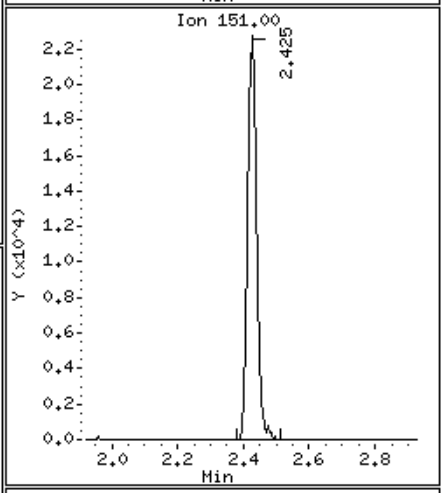


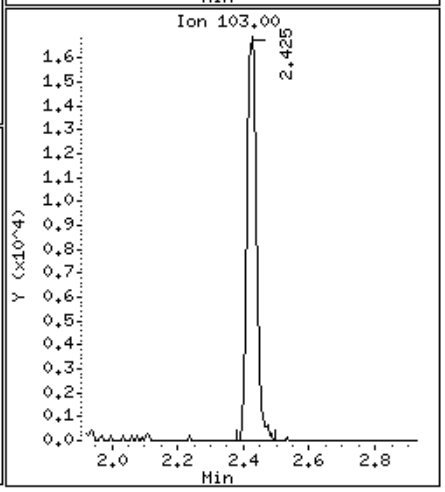












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070114.D Page 3

Date : 01-JUL-2024 14:18

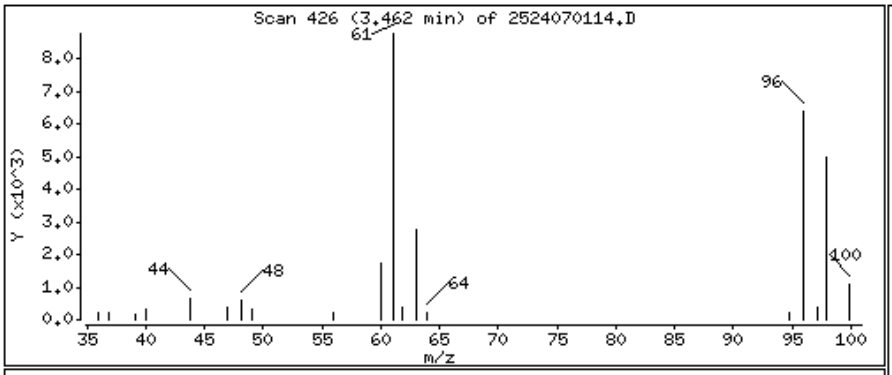
Client ID: ICT12B_062024 Instrument: ms25.i

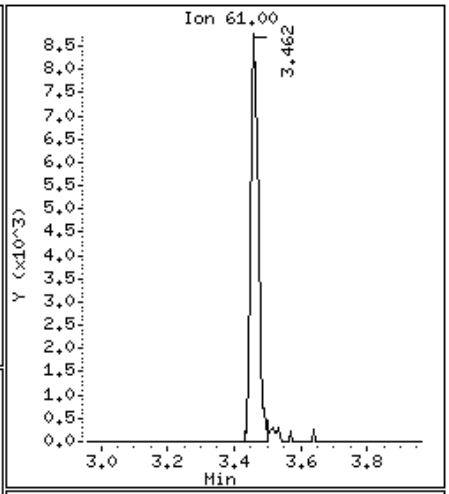
Sample Info: 3366026007;;1;;;;;100

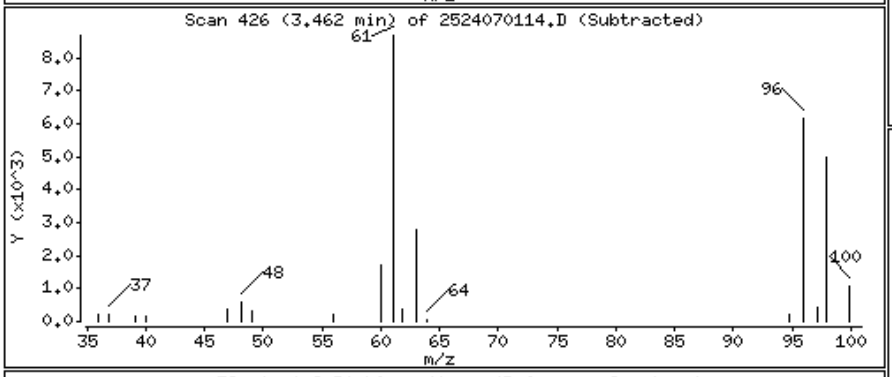
Purge Volume: 5.0 Operator: TMP

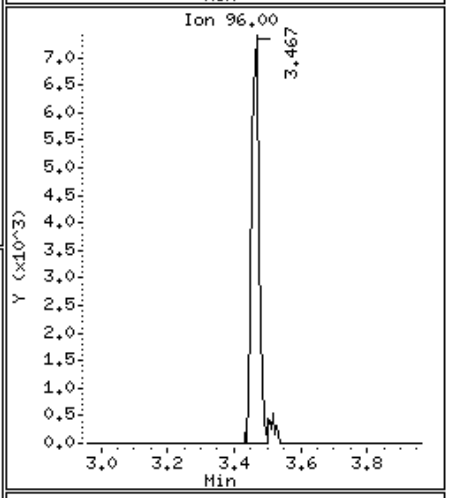
Column phase: DB-VRX Column diameter: 0.25

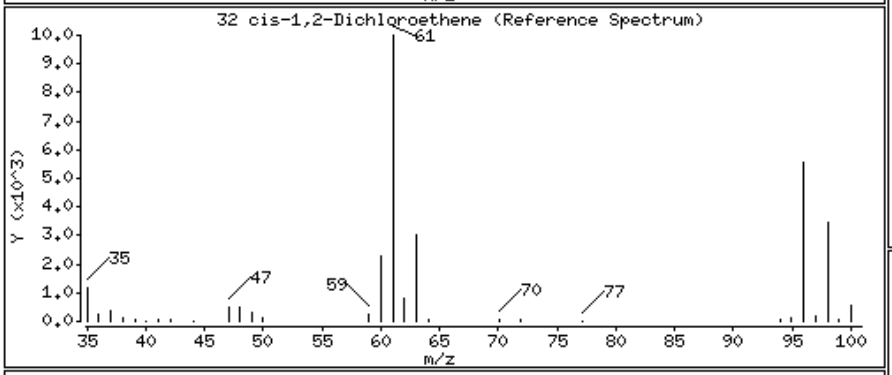
32 cis-1,2-Dichloroethene Concentration: 126.202 ug/L

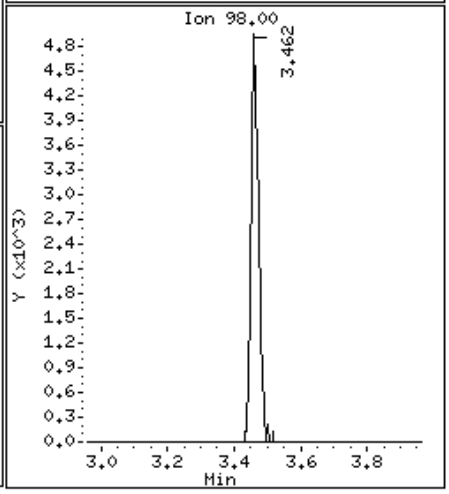


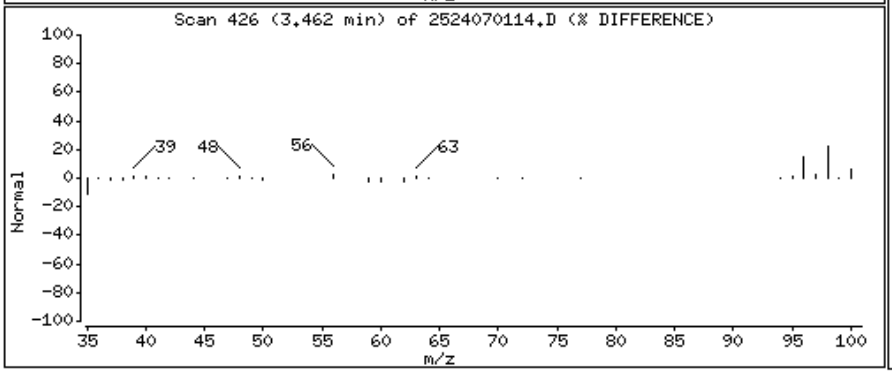












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070114.D Page 4

Date : 01-JUL-2024 14:18

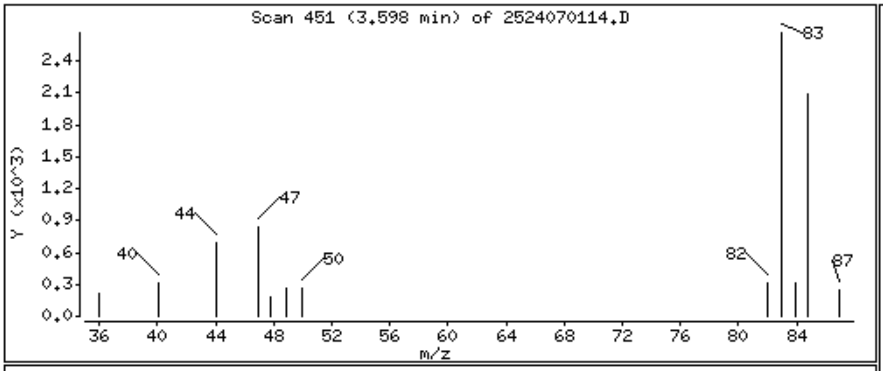
Client ID: ICT12B_062024 Instrument: ms25.i

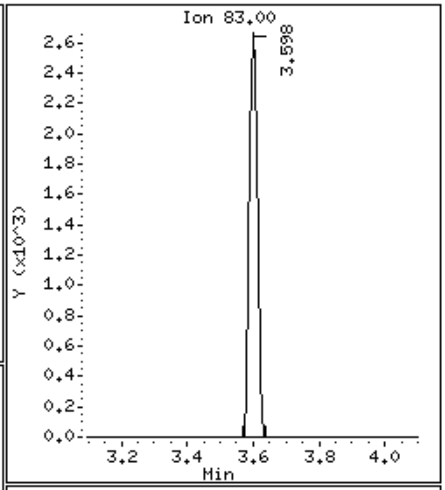
Sample Info: 3366026007;;1;;;;;100

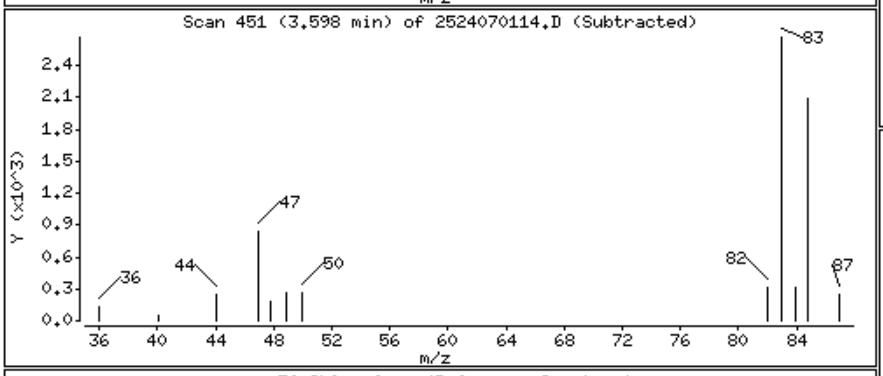
Purge Volume: 5.0 Operator: TMP

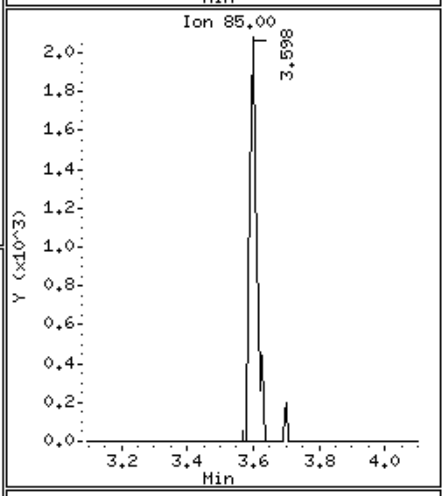
Column phase: DB-VRX Column diameter: 0.25

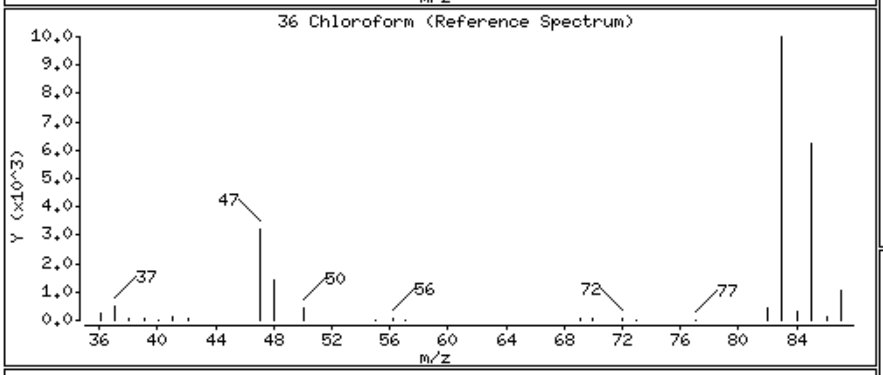
36 Chloroform Concentration: 28.7842 ug/L

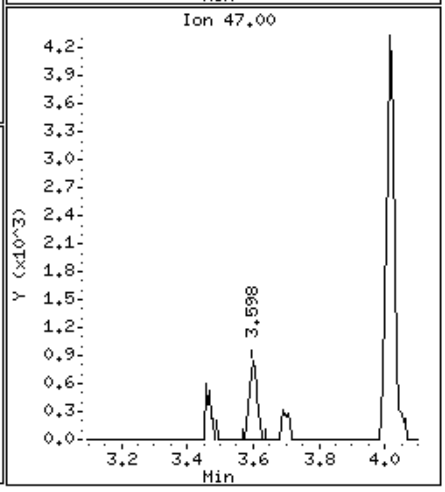


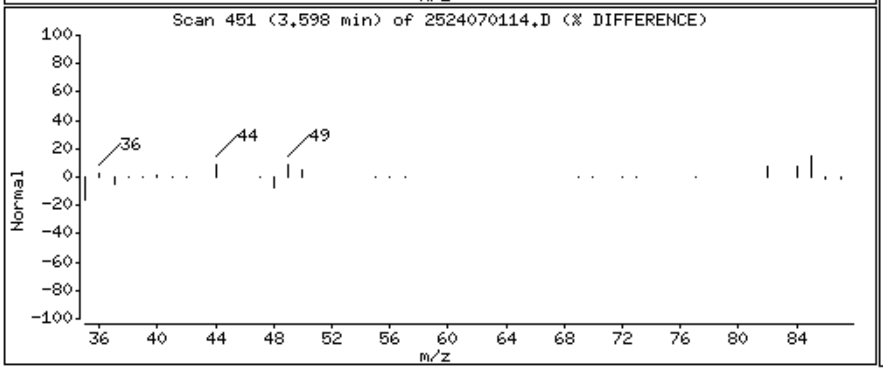












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070114.D Page 5

Date : 01-JUL-2024 14:18

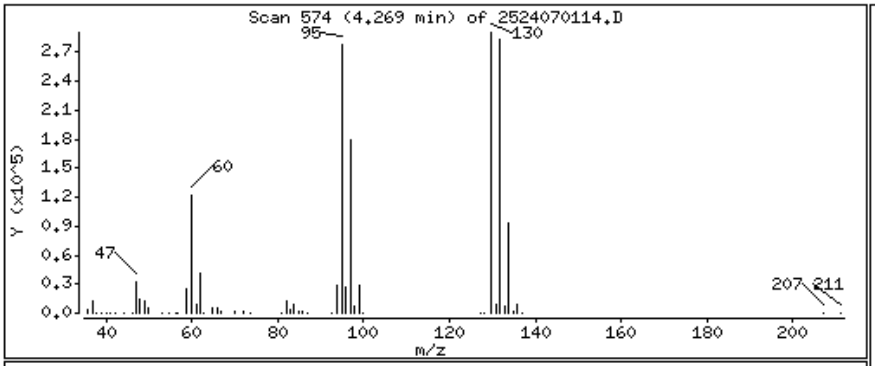
Client ID: ICT12B_062024 Instrument: ms25.i

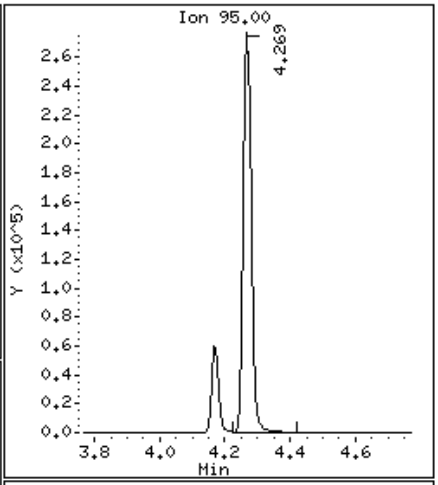
Sample Info: 3366026007;;1;;;;;100

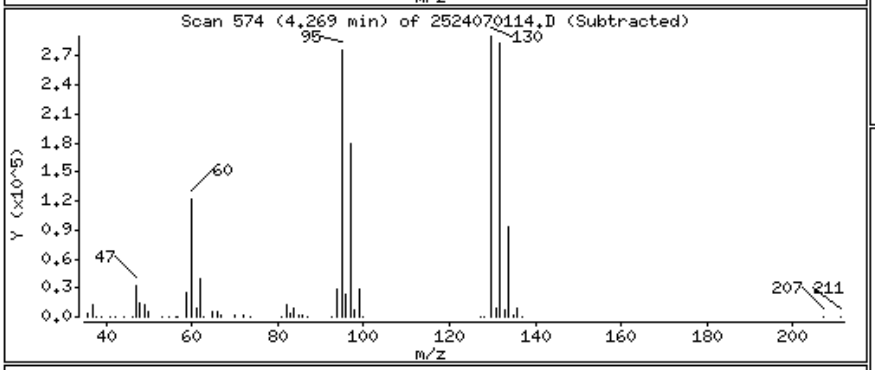
Purge Volume: 5.0 Operator: THP

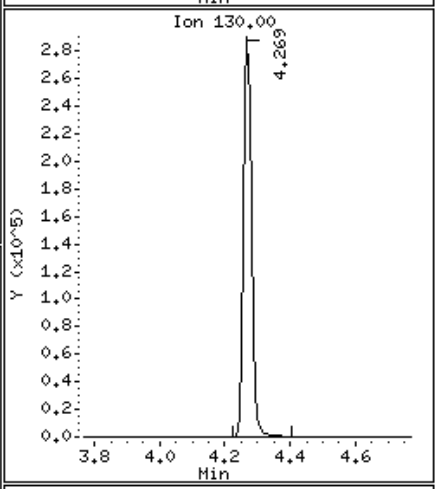
Column phase: DB-VRX Column diameter: 0.25

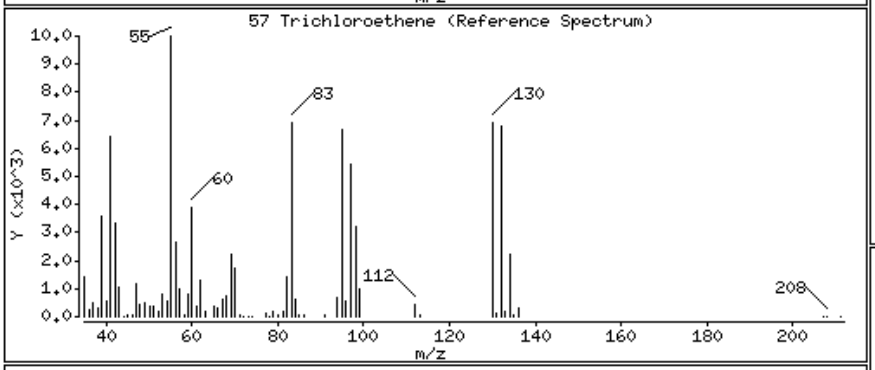
57 Trichloroethene Concentration: 5290.40 ug/L

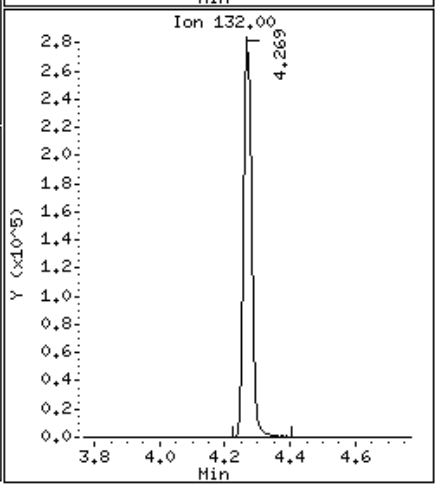


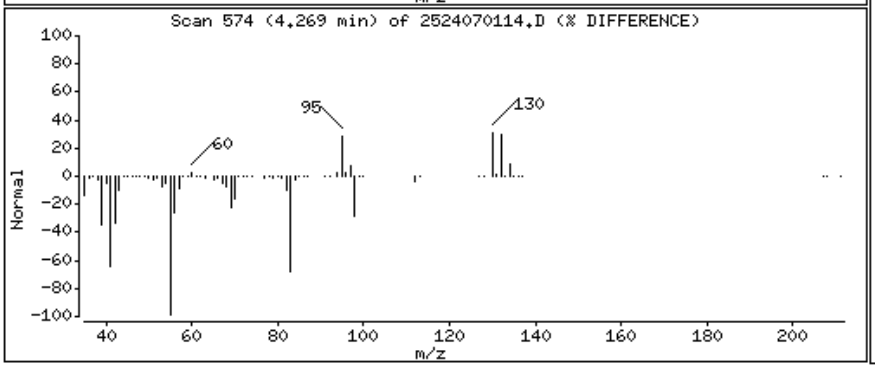












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070114.D
Inj Date : 01-JUL-2024 14:18
InstruID : ms25.i
LabSampID : 3366026007

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:18
Client ID: ICT12B_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407011
Inj Date: 01-JUL-2024 14:18
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Bromodichloromethane
1-Chlorohexane
1,2-Dichloroethane
Ethyl methacrylate
Methyl cyclohexane
Trichlorofluoromethane
tert-amyl methyl Ether
Chloroethane
3-Chloro-1-propene
trans-1,3-Dichloropropene
Heptane
2-Nitropropane

Data File: 2524070115.D Page 1
Report Date: 02-Jul-2024 13:19

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070115.D
Lab Smp Id: 3366026008 Client Smp ID: ICT12C_062024
Inj Date : 01-JUL-2024 14:39
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026008;;1;;;;;20
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 15
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	37226	5.52281	110.456	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						RT
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070115.D Page 2
Report Date: 02-Jul-2024 13:19

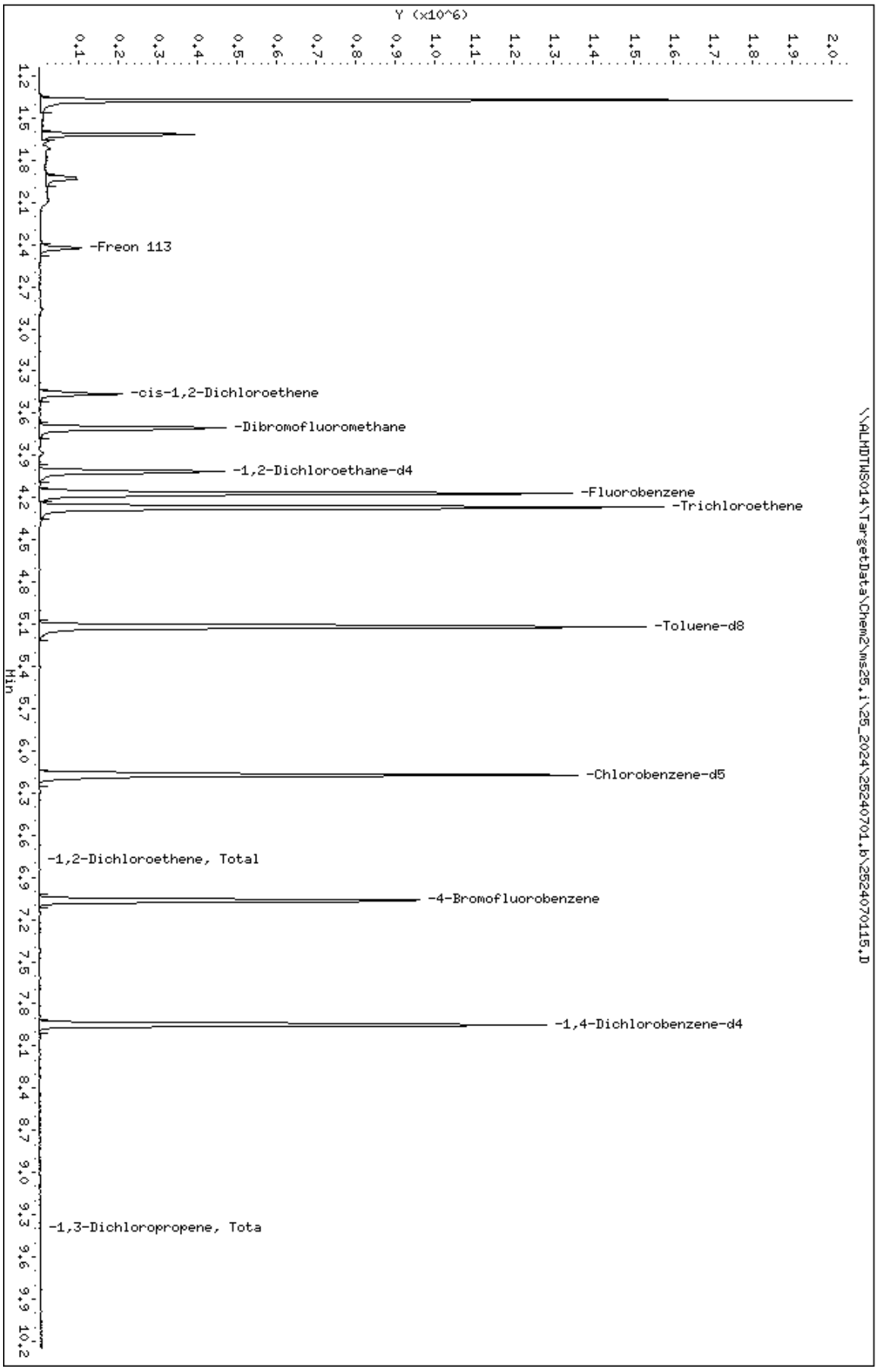
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	86986	9.14003	182.801	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				86986	9.14003	182.801	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	223309	28.4105	568.210	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						RT
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.018	(0.963)	248322	29.9699	599.397	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	996168	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	408891	51.7171	1034.34	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	881989	30.6010	612.021	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						RT
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070115.D Page 3
Report Date: 02-Jul-2024 13:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	364042	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	250530	29.2785	585.569		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	309303	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

Q - Qualifier signal failed the ratio test.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Date : 01-JUL-2024 14:39
Client ID: ICT12C_062024
Sample Info: 33660260008;;1;;;;;20
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: THP
Column diameter: 0.25
Page 1
\\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25240701l5.D
Y (x10^6)
Min
-Freon 113
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Trichloroethene
-Toluene-d8
-Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
-1,3-Dichloropropene, Tota

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070115.D Page 2

Date : 01-JUL-2024 14:39

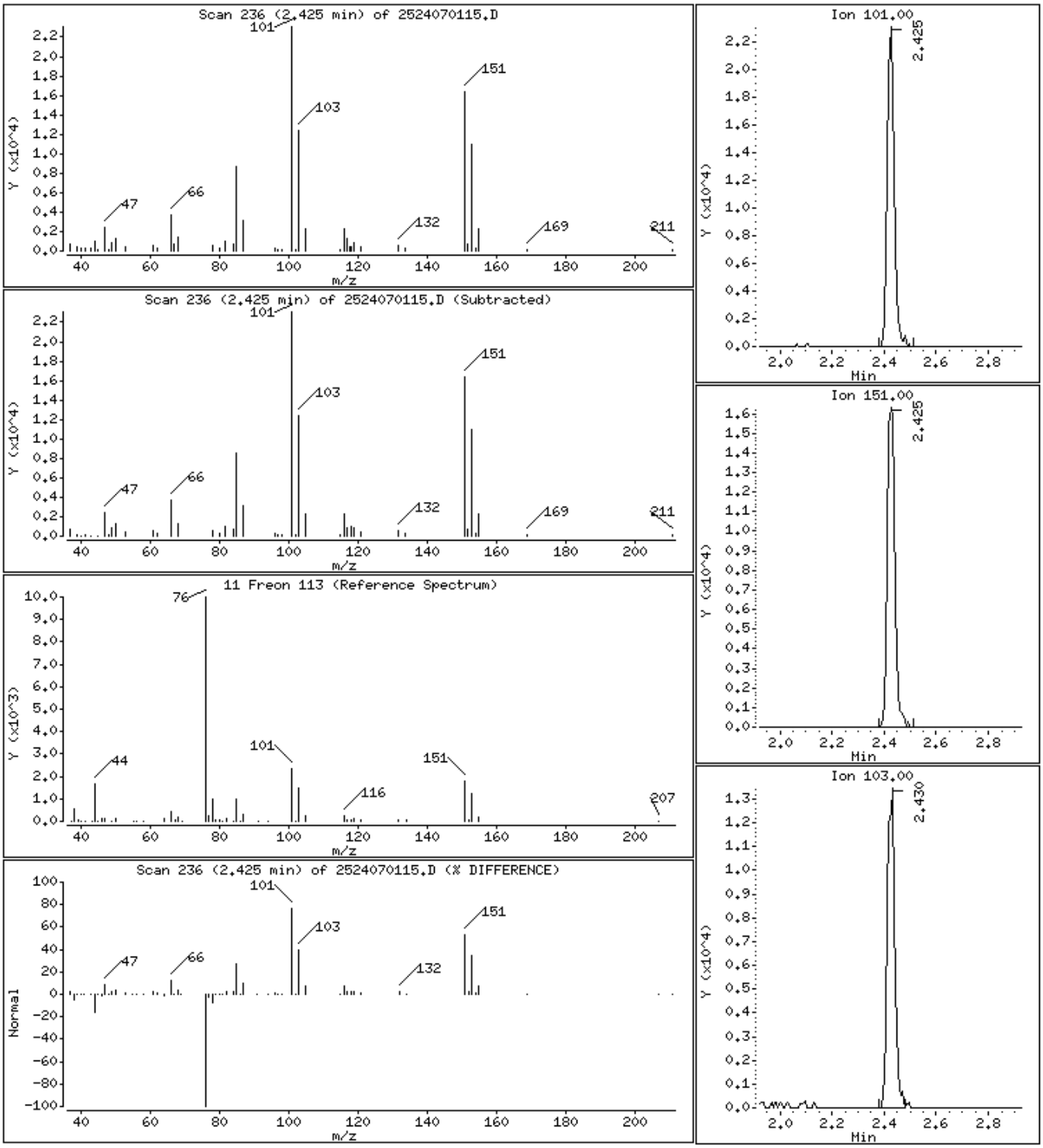
Client ID: ICT12C_062024 Instrument: ms25.i

Sample Info: 3366026008;;1;;;;;20

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 110.456 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070115.D Page 3

Date : 01-JUL-2024 14:39

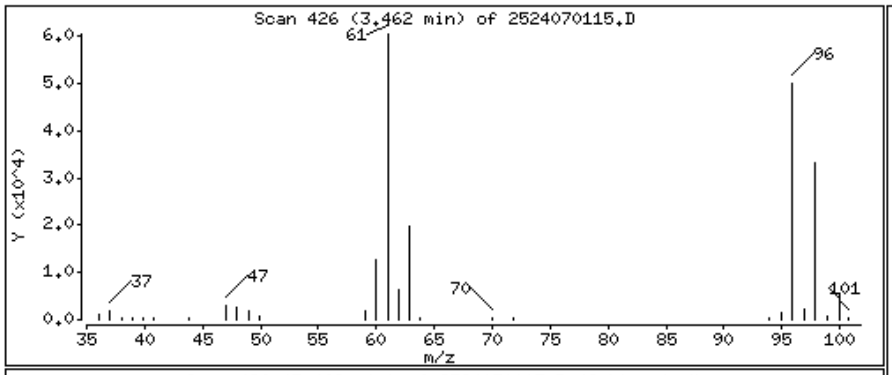
Client ID: ICT12C_062024 Instrument: ms25.i

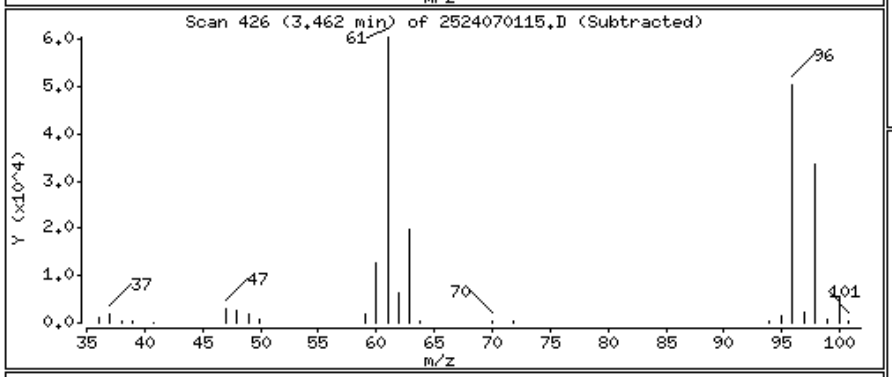
Sample Info: 3366026008;;1;;;;;20

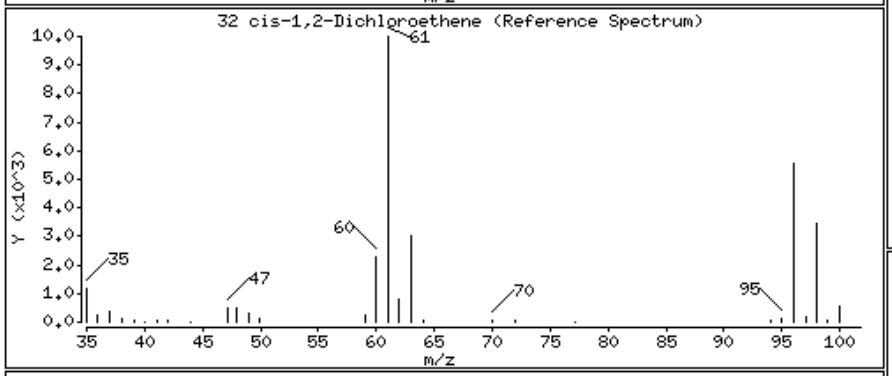
Purge Volume: 5.0 Operator: TMP

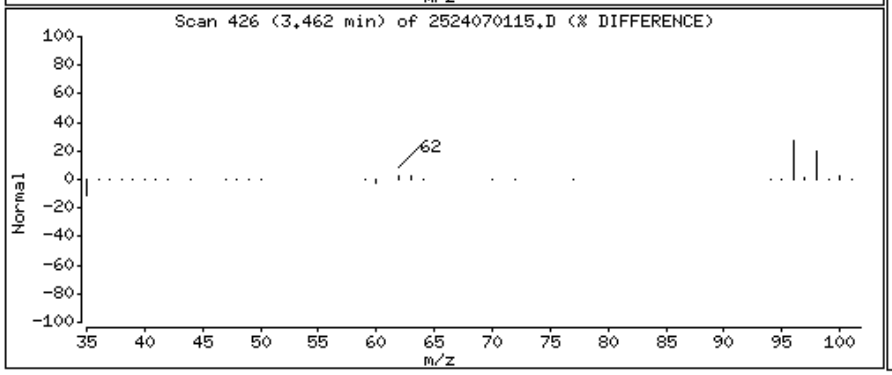
Column phase: DB-VRX Column diameter: 0.25

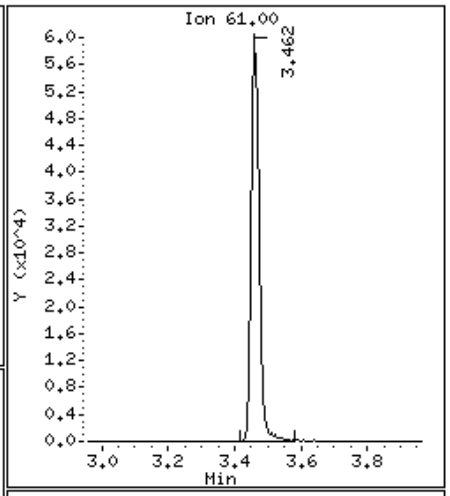
32 cis-1,2-Dichloroethene Concentration: 182.801 ug/L

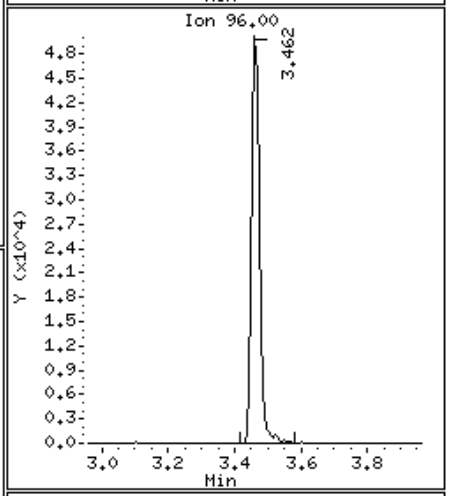


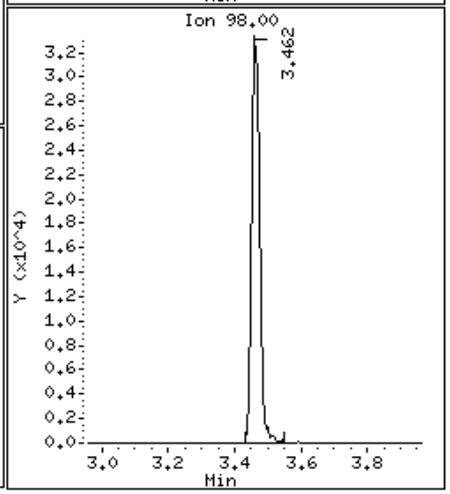












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070115.D Page 4

Date : 01-JUL-2024 14:39

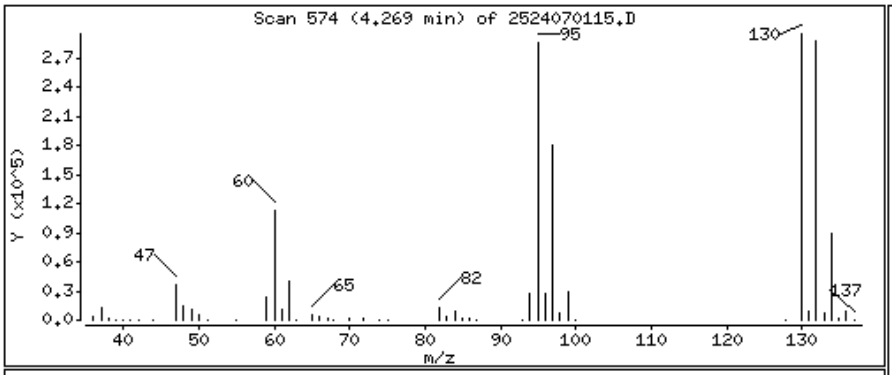
Client ID: ICT12C_062024 Instrument: ms25.i

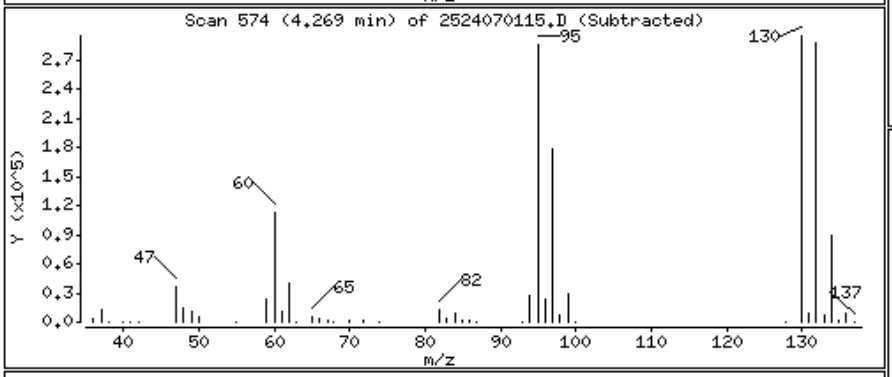
Sample Info: 3366026008;;1;;;;;20

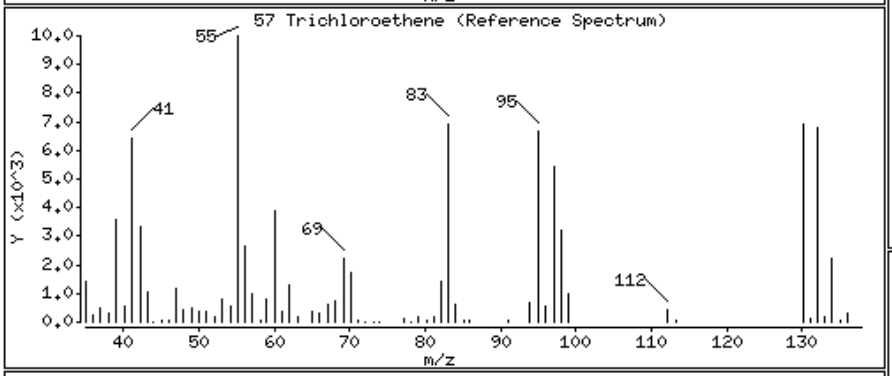
Purge Volume: 5.0 Operator: TMP

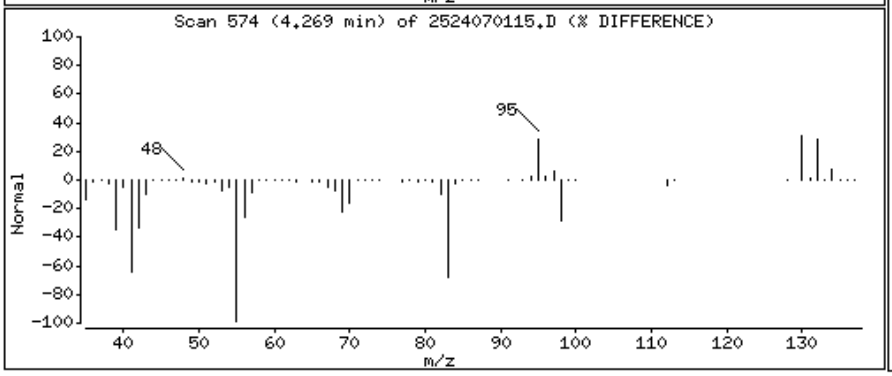
Column phase: DB-VRX Column diameter: 0.25

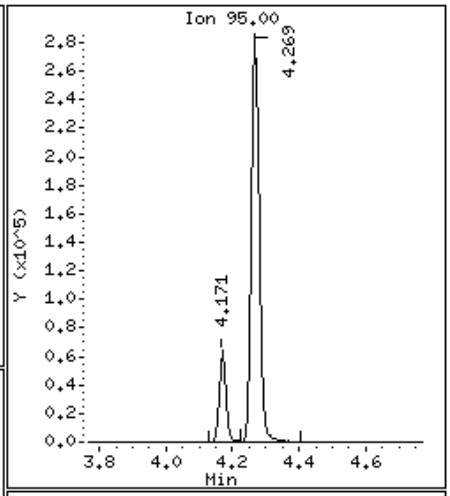
57 Trichloroethene Concentration: 1034.34 ug/L

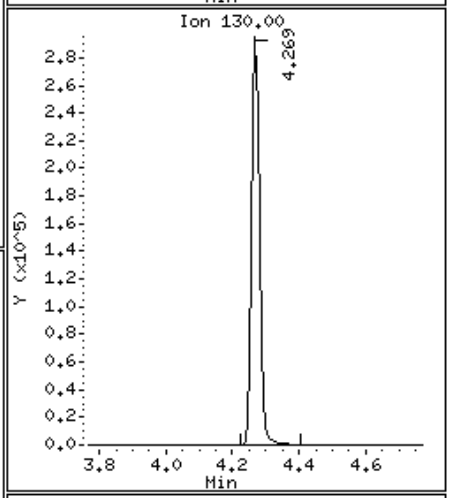


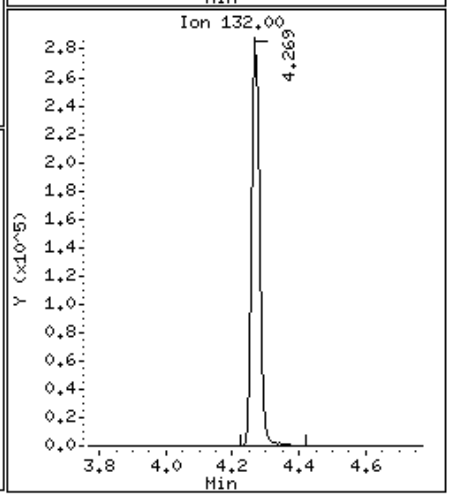












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070115.D
Inj Date : 01-JUL-2024 14:39
InstruID : ms25.i
LabSampID : 3366026008

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:19
Client ID: ICT12C_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/2524070115
Inj Date: 01-JUL-2024 14:39
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	Bromodichloromethane
Chloroethane	1-Chlorohexane
3-Chloro-1-propene	1,2-Dichloroethane
trans-1,3-Dichloropropene	Ethyl methacrylate
Heptane	2-Nitropropane
1,1,1-Trichloroethane	Trichlorofluoromethane

Data File: 2524070116.D Page 1
Report Date: 02-Jul-2024 13:21

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D
Lab Smp Id: 3366026009 Client Smp ID: ICT12D_062024
Inj Date : 01-JUL-2024 14:59
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026009;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						RT
2 Chloromethane	50	Compound Not Detected.						RT
3 Vinyl Chloride	62	1.704	1.704	(0.400)	6098645	527.555	527.555(A)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						RT
10 1,1-Dichloroethene	61	2.413	2.413	(0.566)	2148519	241.659	241.659(A)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.413	2.424	(0.566)	22648426	3621.80	3621.80(AQ)	
13 Iodomethane	127	Compound Not Detected.						RT
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.735	2.741	(0.642)	13871496	1910.06	1910.06(A)	
18 Acetone	58	Compound Not Detected.						SPC
19 Methyl acetate	74	Compound Not Detected.						RT
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.663)	163078	18.7276	18.7276	
21 Hexane	57	Compound Not Detected.						

Data File: 2524070116.D
Report Date: 02-Jul-2024 13:21

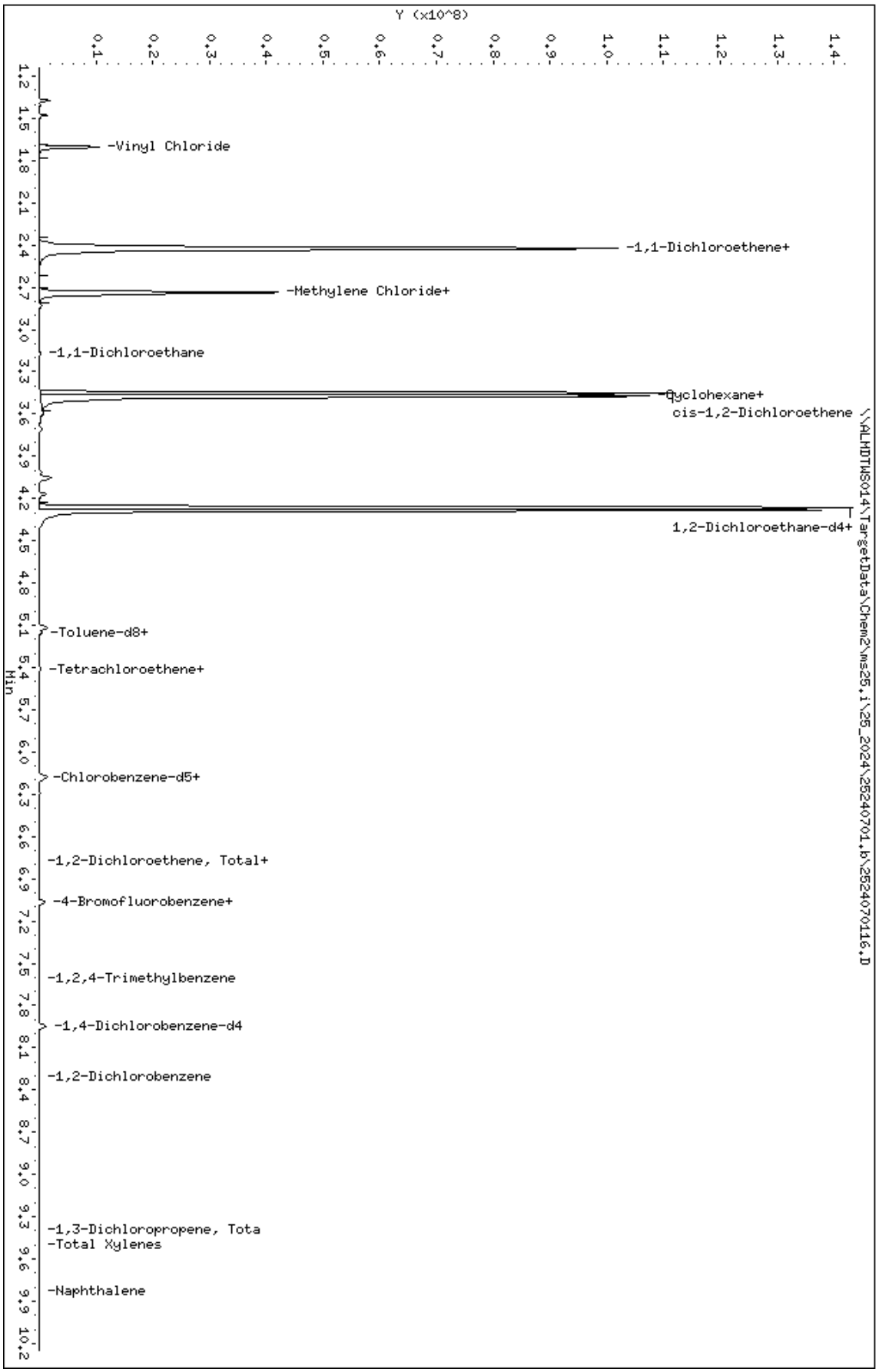
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	3.172	3.166	(0.744)	262699	22.1435	22.1435(M)	H
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						RT
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.445	3.461	(0.808)	31977171	3621.69	3621.69(AQ)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				32140249	3640.42	3640.42	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	3.592	3.586	(0.843)	52631	4.96791	4.96791	
	36 Chloroform	83	3.603	3.597	(0.845)	191740	14.9715	14.9715(M)	H
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						RT
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.869)	206199	28.2769	28.2769	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						IBDL
	43 2-Butanone	72	Compound Not Detected.						RT
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						RT
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.018	(0.942)	225107	29.2841	29.2841	
	54 Isobutyl alcohol	42	Compound Not Detected.						RT
	52 1,2-Dichloroethane	62	4.056	4.056	(0.951)	1443066	158.391	158.391	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	924187	30.0000	(M)	H
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.258	4.269	(0.999)	26095111	3557.61	3557.61(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						RT
	59 tert-Amyl Ethylether	59	Compound Not Detected.						RT
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						RT
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	851390	30.3091	30.3091	
	69 Toluene	92	5.153	5.152	(0.835)	146050	8.20314	8.20314	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						RT
	73 4-Methyl-2-Pentanone(MIBK)	43	5.376	5.371	(0.871)	10468	2.49253	2.49253(a)	
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						SPC
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	72947	11.2518	11.2518	
	76 Ethyl methacrylate	69	Compound Not Detected.						RT

Data File: 2524070116.D Page 3
Report Date: 02-Jul-2024 13:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	15674	2.86532	2.86532	
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						RT
	81 2-Hexanone	43	Compound Not Detected.						RT
	82 1-Chlorohexane	91	Compound Not Detected.						RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	354797	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	128880	12.0473	12.0473	
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						RT
	87 mp-Xylene	106	6.288	6.287	(1.019)	39180	2.34276	2.34276	
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	6.609	6.609	(1.071)	21207	1.75640	1.75640	
	89 Styrene	104	6.642	6.648	(0.835)	8856	0.77574	0.775735(aQ)	
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	6.833	6.839	(0.859)	5579	0.35622	0.356220(a)	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	261499	30.6060	30.6060	
M	121 TOTAL XYLENES	106				60387	4.09916	4.09916	
	94 n-Propylbenzene	120	Compound Not Detected.						RT
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	7.297	7.302	(0.918)	8366	0.40258	0.402584(a)	
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	7.613	7.613	(0.957)	24191	0.95036	0.950359(a)	
	105 sec-Butylbenzene	105	Compound Not Detected.						RT
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						RT
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	308842	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						RT
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	6199	0.52901	0.529005(a)	
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	9.829	9.829	(1.236)	14018	0.93087	0.930870(a)	
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Date : 01-JUL-2024 14:59
Client ID: ICT12D_062024
Sample Info: 336602600911;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 2

Date : 01-JUL-2024 14:59

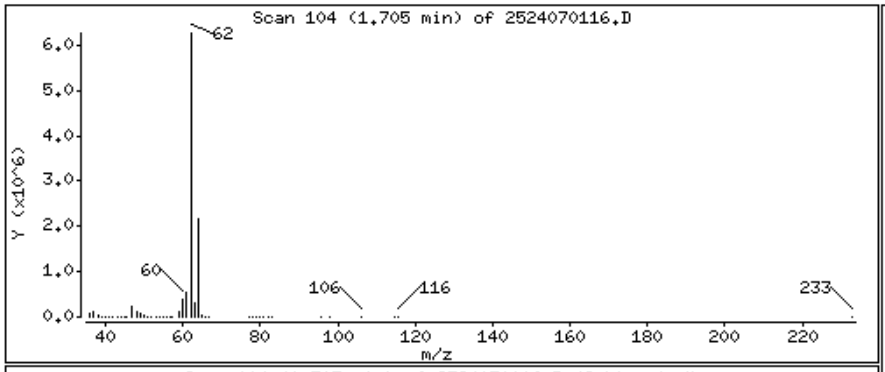
Client ID: ICT12D_062024 Instrument: ms25.i

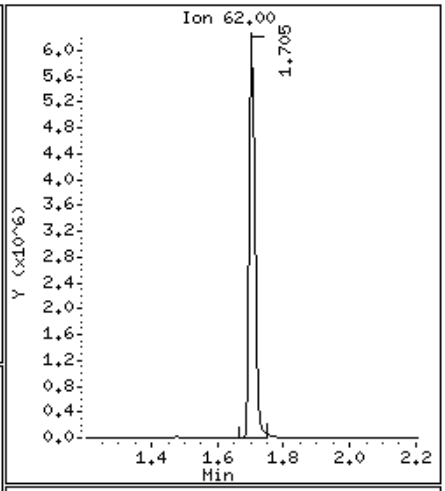
Sample Info: 3366026009;;1;;;;;

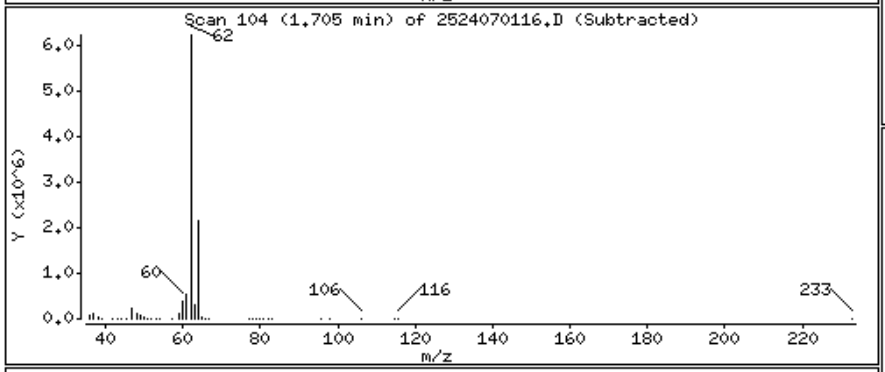
Purge Volume: 5.0 Operator: TMP

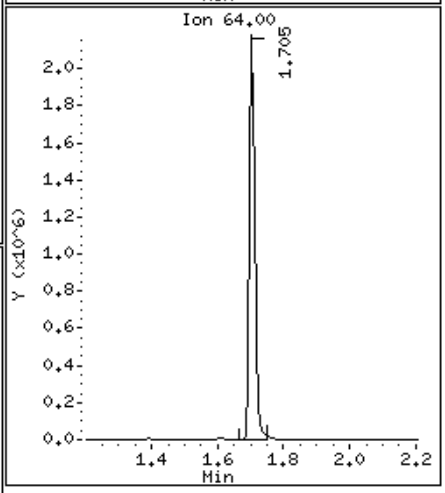
Column phase: DB-VRX Column diameter: 0.25

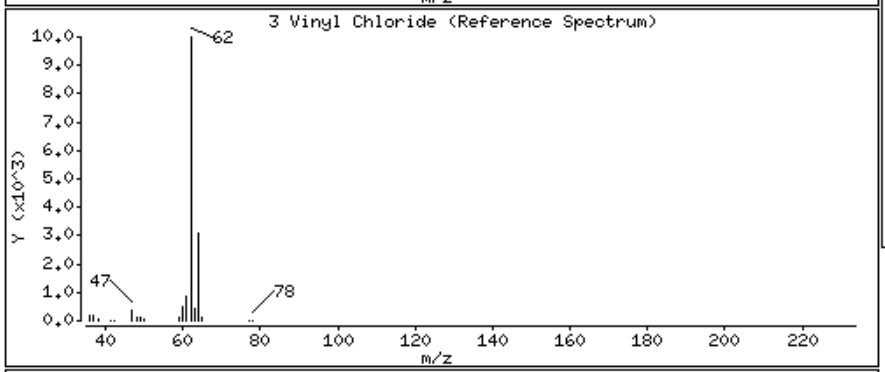
3 Vinyl Chloride Concentration: 527.555 ug/L

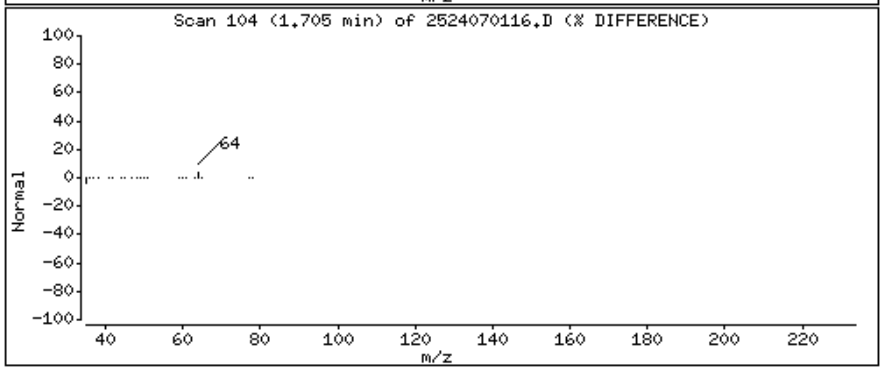












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 3

Date : 01-JUL-2024 14:59

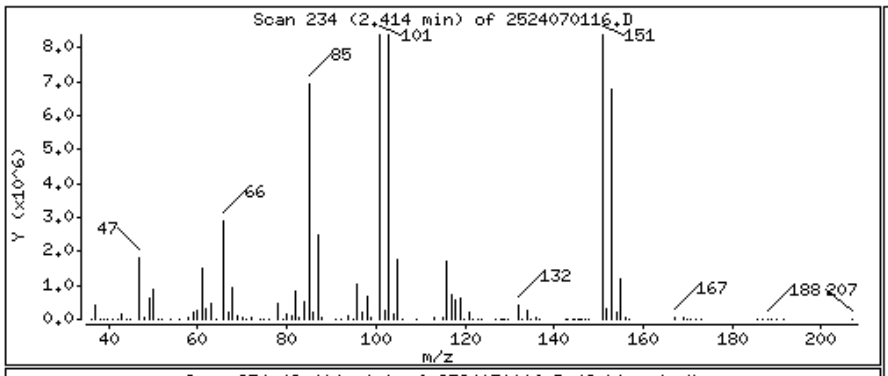
Client ID: ICT12D_062024 Instrument: ms25.i

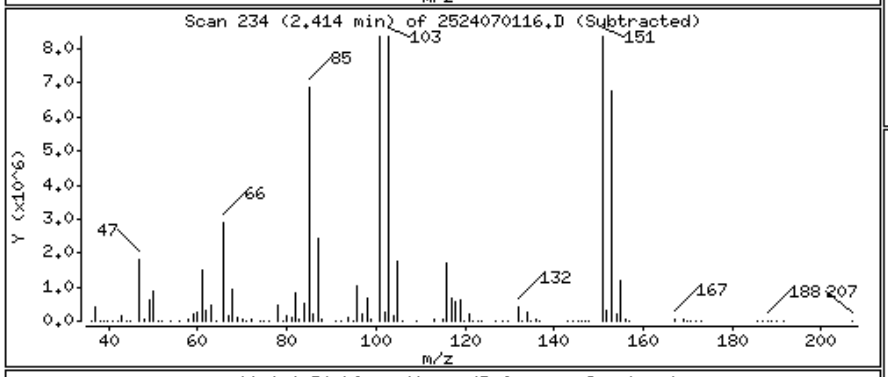
Sample Info: 3366026009;;1;;;;;

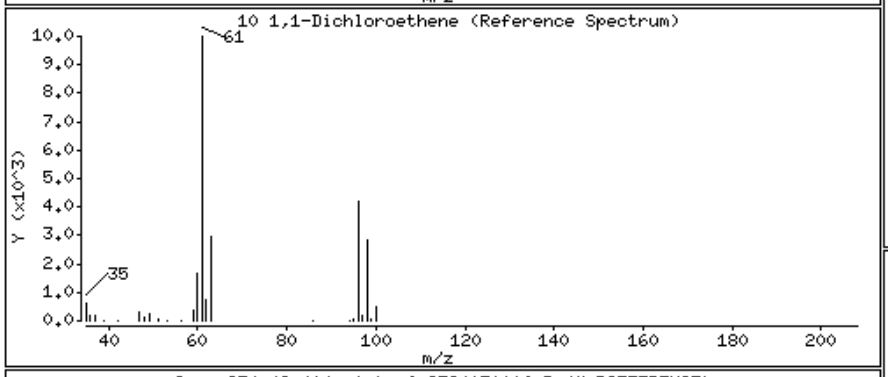
Purge Volume: 5.0 Operator: TMP

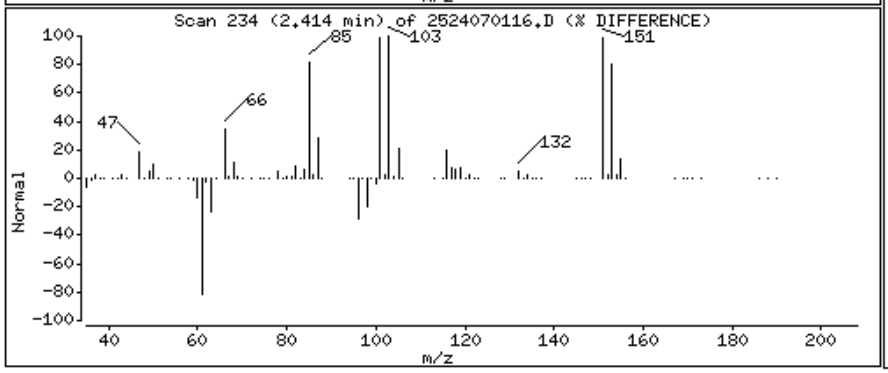
Column phase: DB-VRX Column diameter: 0.25

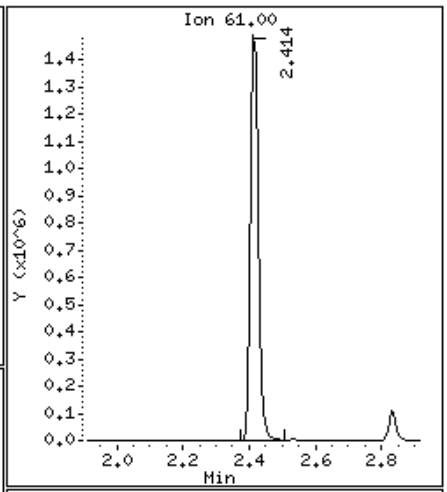
10 1,1-Dichloroethene Concentration: 241.659 ug/L

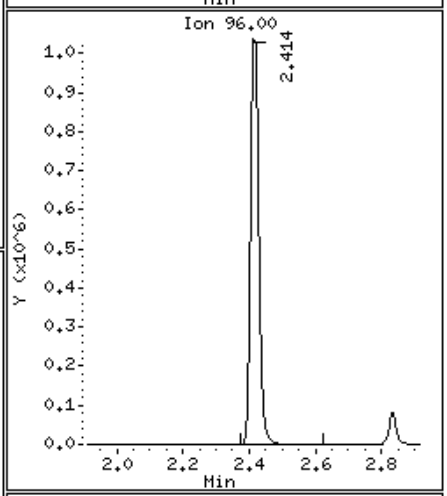


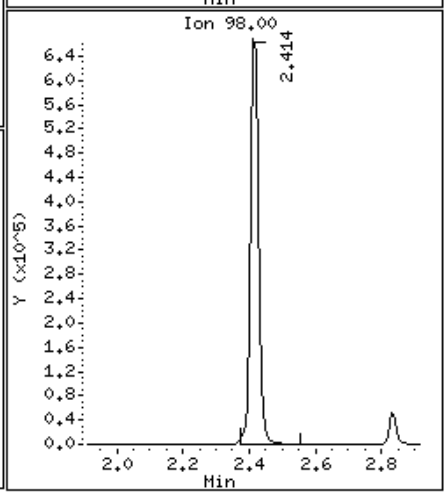












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 4

Date : 01-JUL-2024 14:59

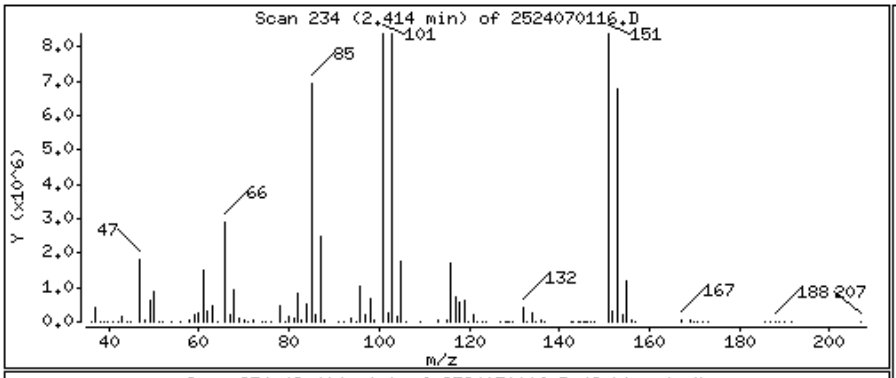
Client ID: ICT12D_062024 Instrument: ms25.i

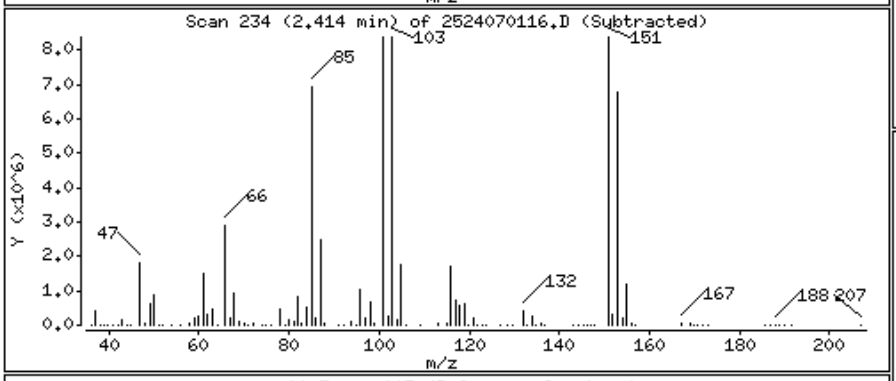
Sample Info: 3366026009;;1;;;;;

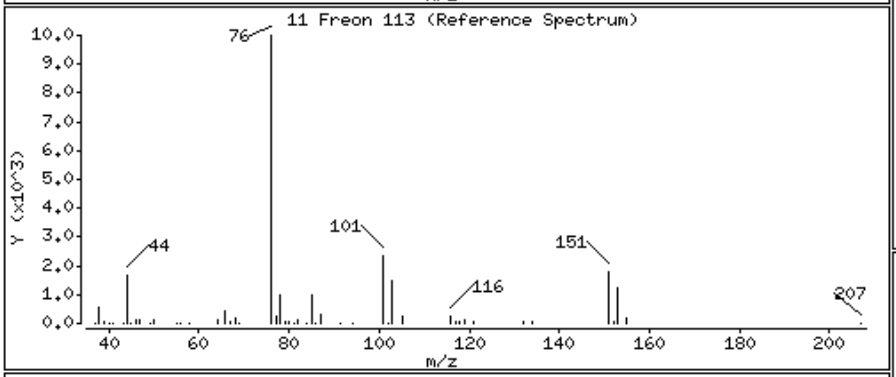
Purge Volume: 5.0 Operator: TMP

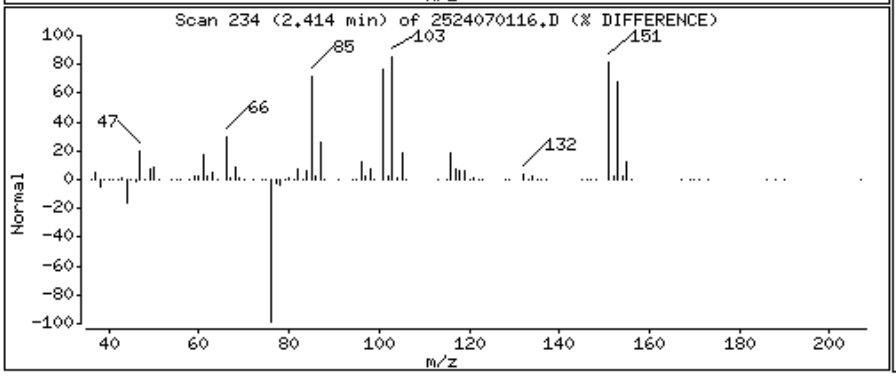
Column phase: DB-VRX Column diameter: 0.25

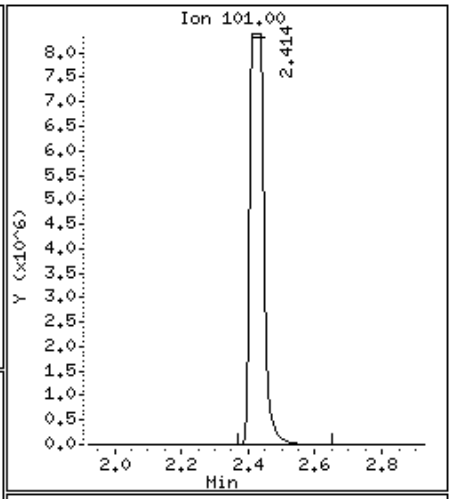
11 Freon 113 Concentration: 3621.80 ug/L

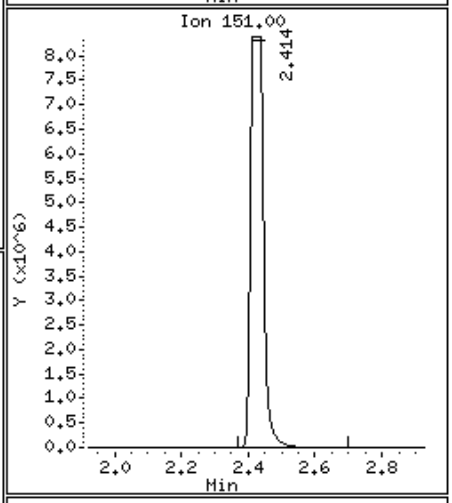


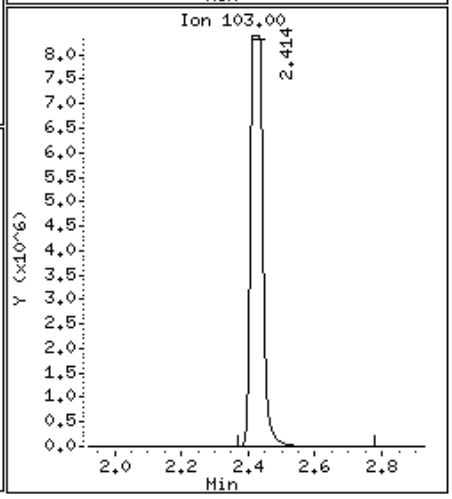












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 5

Date : 01-JUL-2024 14:59

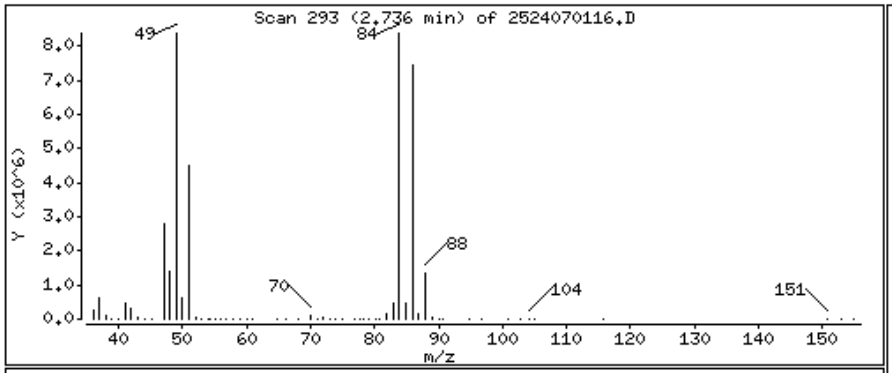
Client ID: ICT12D_062024 Instrument: ms25.i

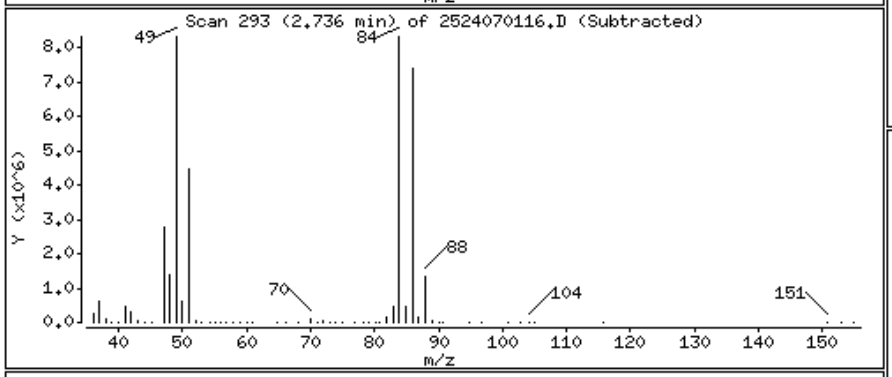
Sample Info: 3366026009;;1;;;;;

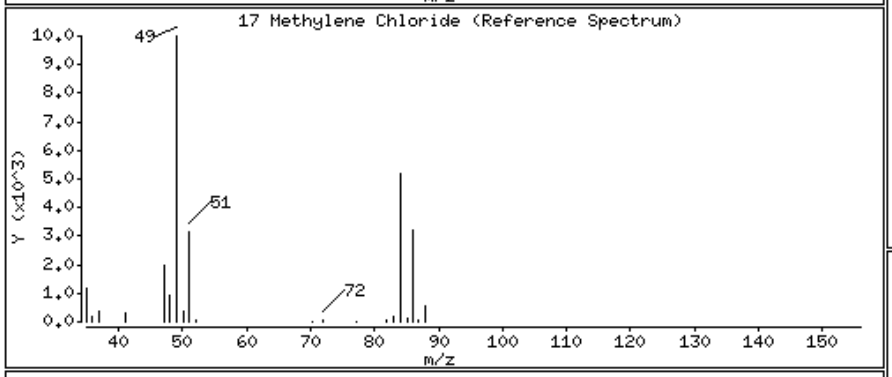
Purge Volume: 5.0 Operator: TMP

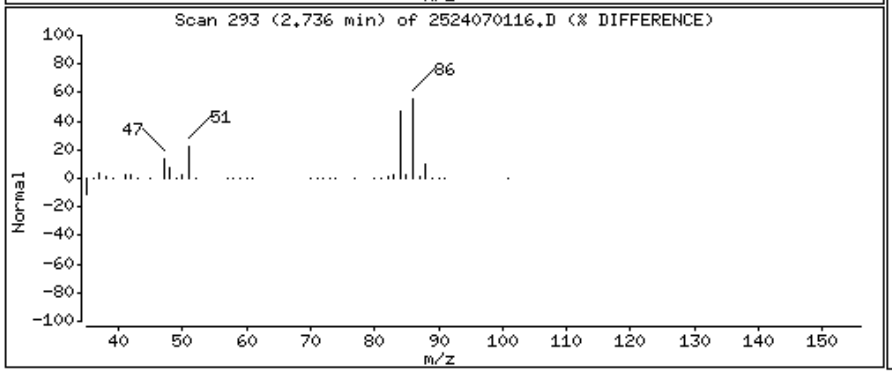
Column phase: DB-VRX Column diameter: 0.25

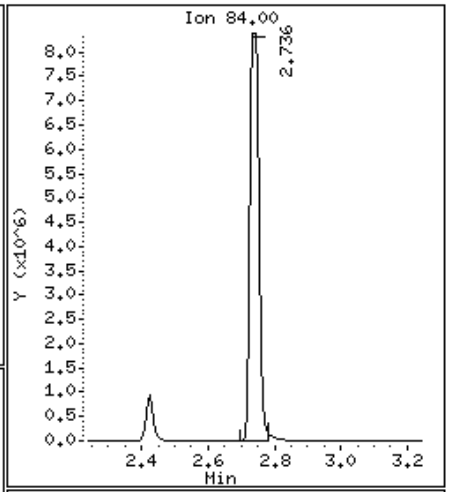
17 Methylene Chloride Concentration: 1910.06 ug/L

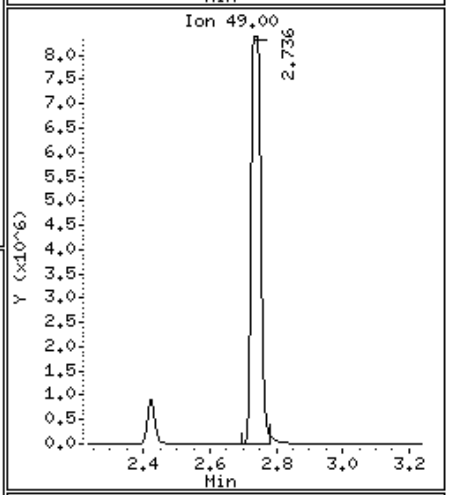


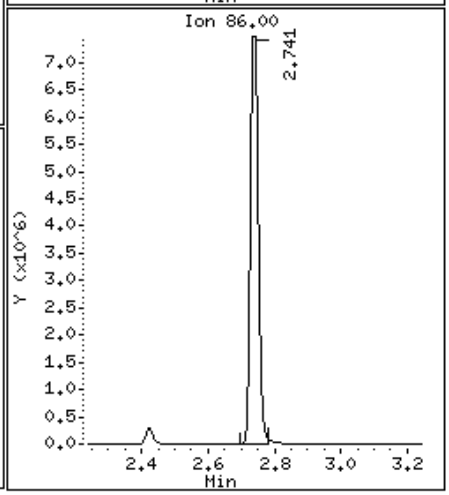












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 6

Date : 01-JUL-2024 14:59

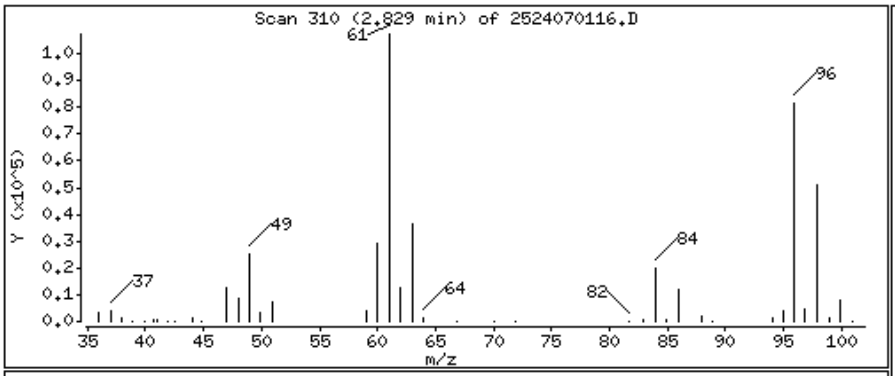
Client ID: ICT12D_062024 Instrument: ms25.i

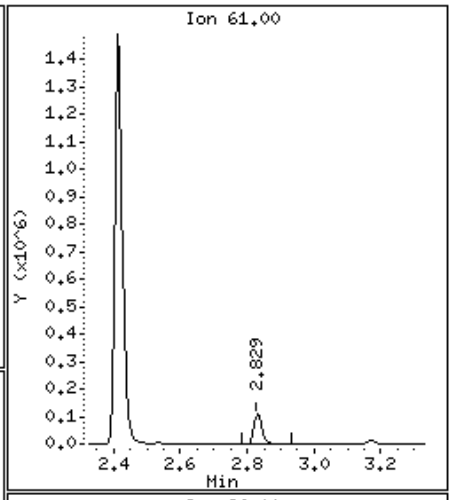
Sample Info: 3366026009;;1;;;;;

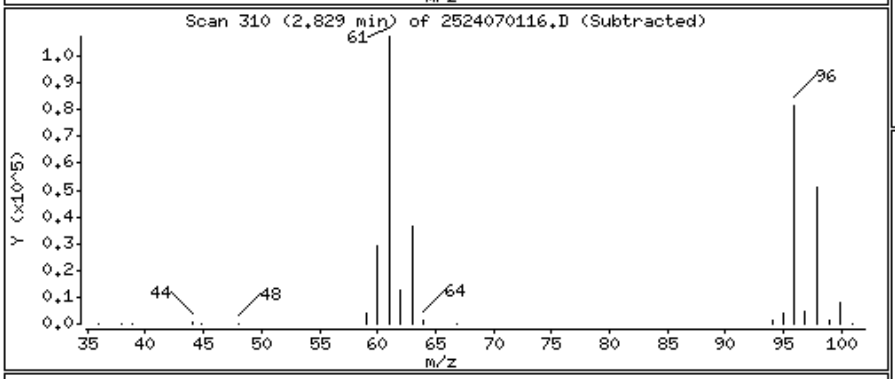
Purge Volume: 5.0 Operator: TMP

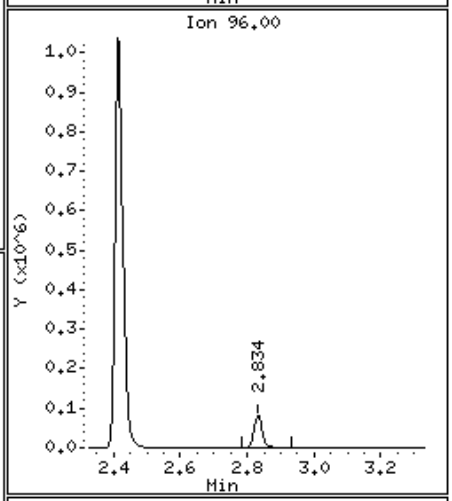
Column phase: DB-VRX Column diameter: 0.25

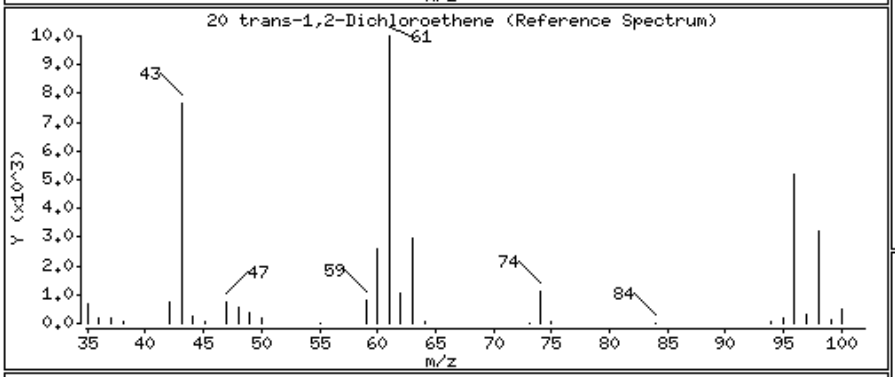
20 trans-1,2-Dichloroethene Concentration: 18.7276 ug/L

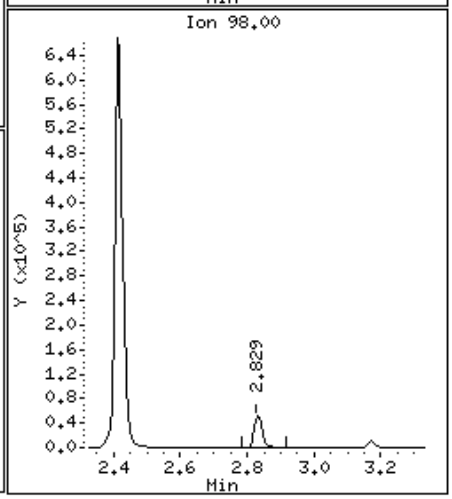


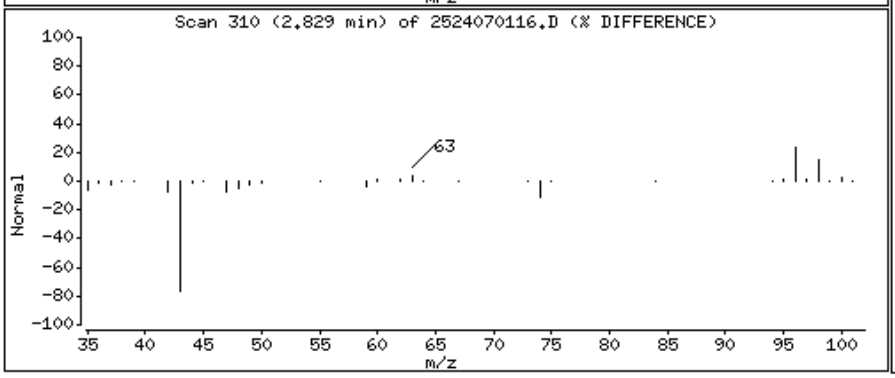












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 7

Date : 01-JUL-2024 14:59

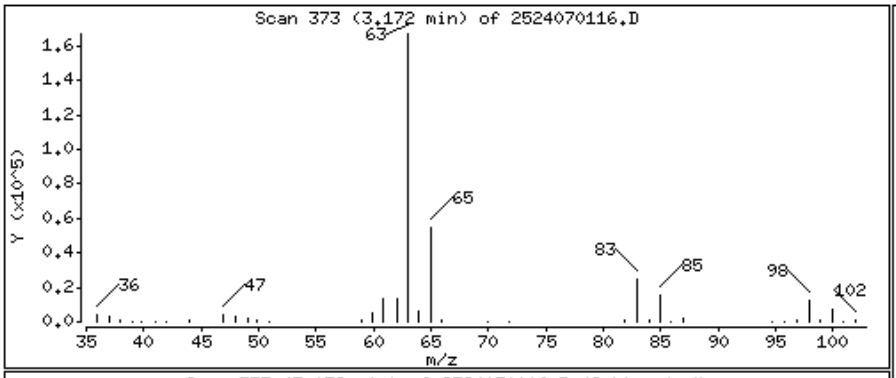
Client ID: ICT12D_062024 Instrument: ms25.i

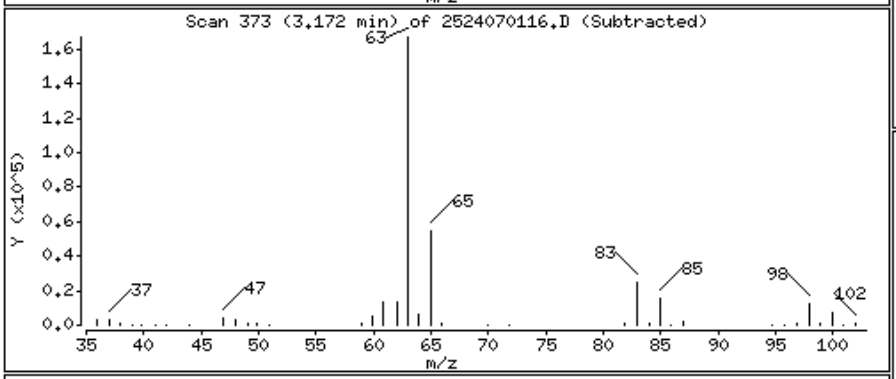
Sample Info: 3366026009;;1;;;;;

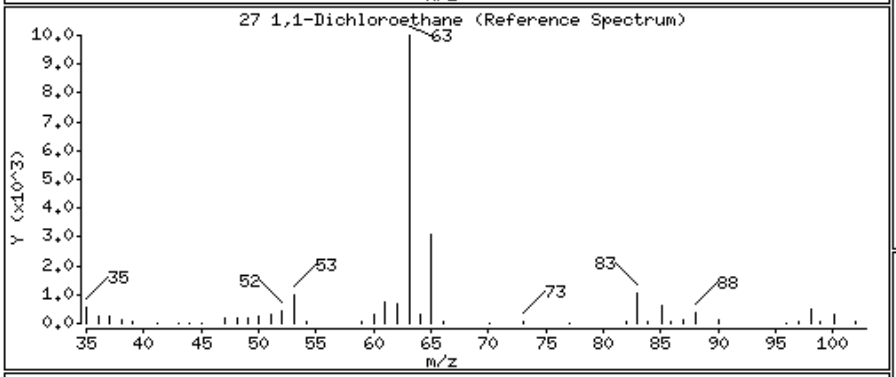
Purge Volume: 5.0 Operator: TMP

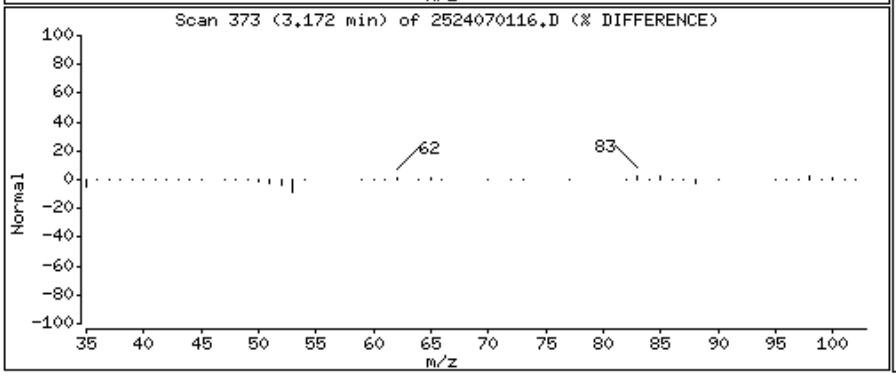
Column phase: DB-VRX Column diameter: 0.25

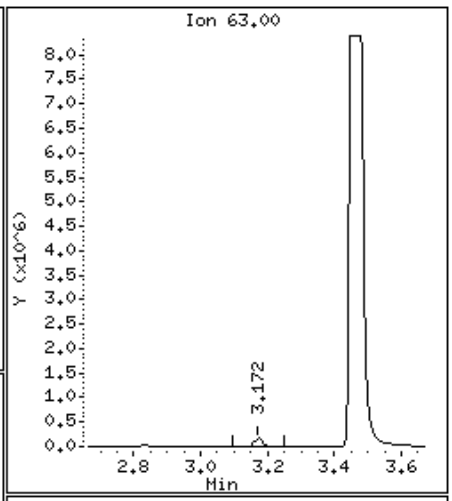
27 1,1-Dichloroethane Concentration: 22.1435 ug/L

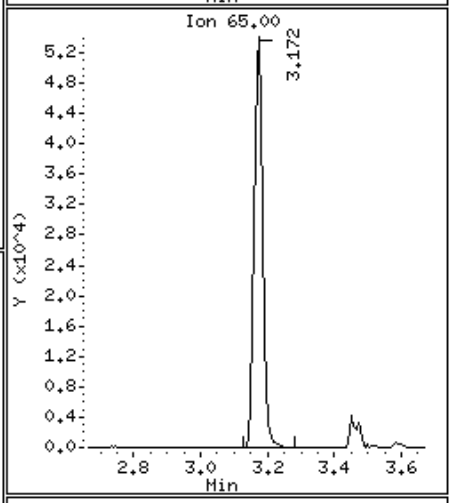


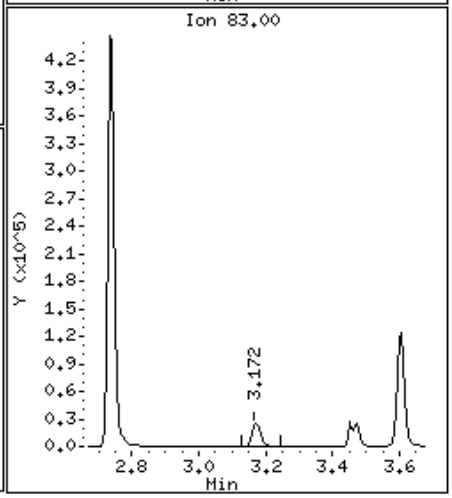












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 8

Date : 01-JUL-2024 14:59

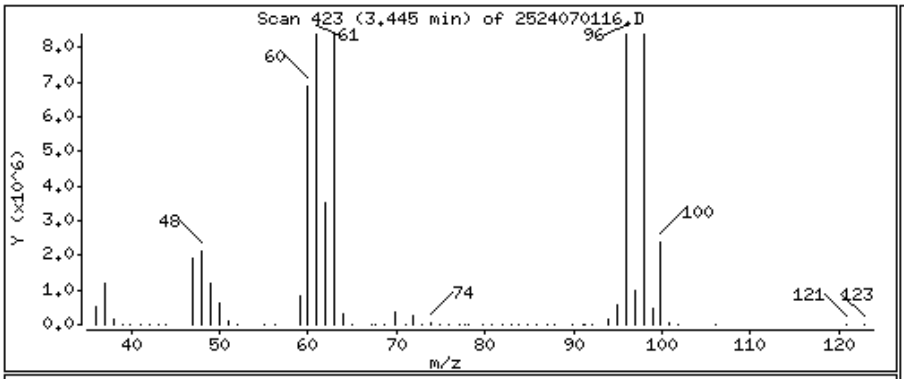
Client ID: ICT12D_062024 Instrument: ms25.i

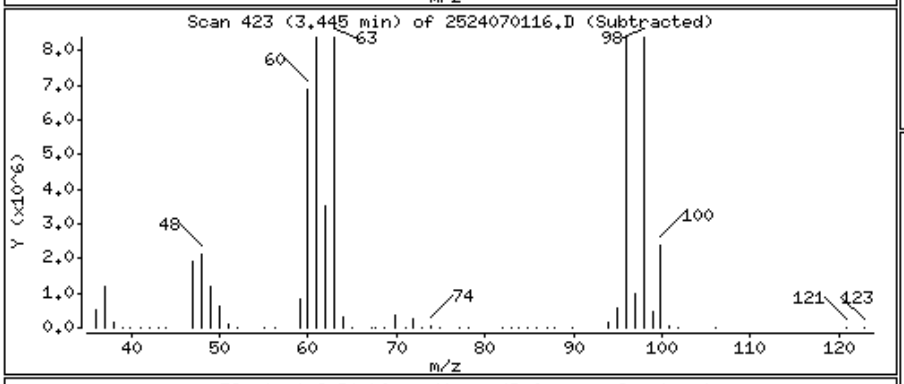
Sample Info: 3366026009;;1;;;;;

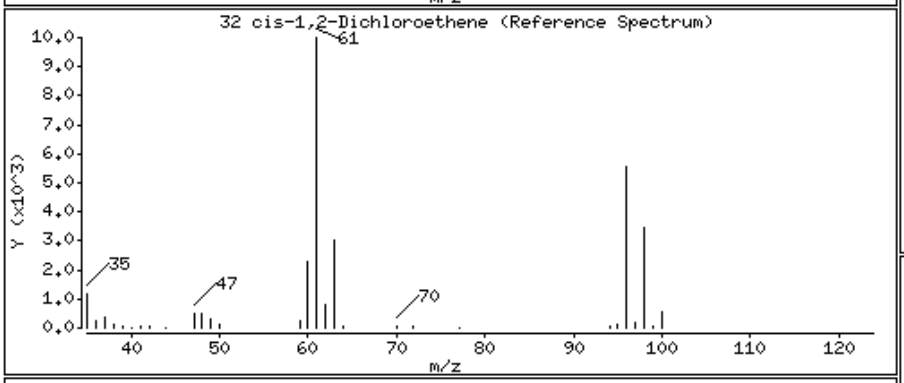
Purge Volume: 5.0 Operator: TMP

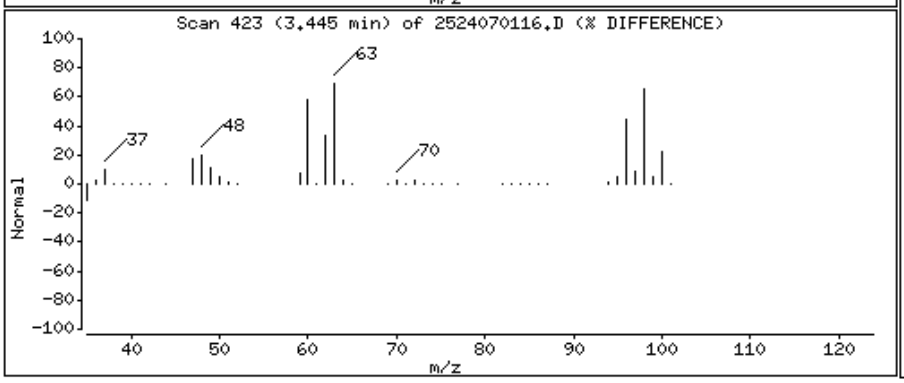
Column phase: DB-VRX Column diameter: 0.25

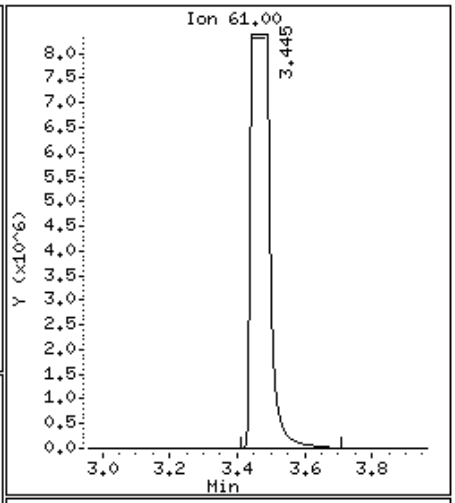
32 cis-1,2-Dichloroethene Concentration: 3621.69 ug/L

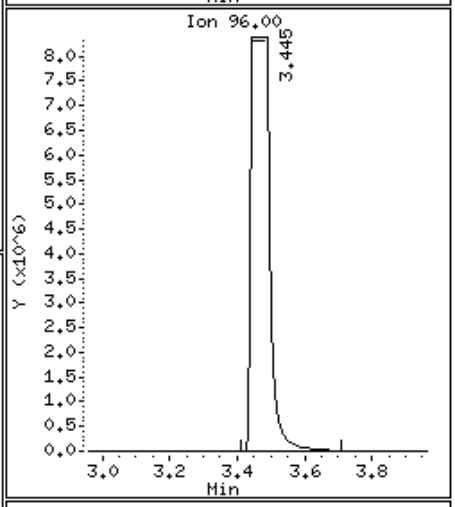


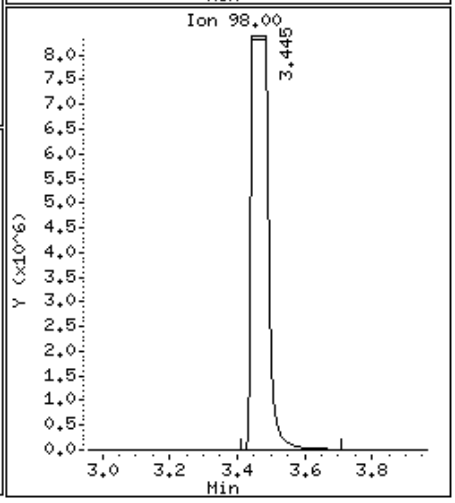












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 9

Date : 01-JUL-2024 14:59

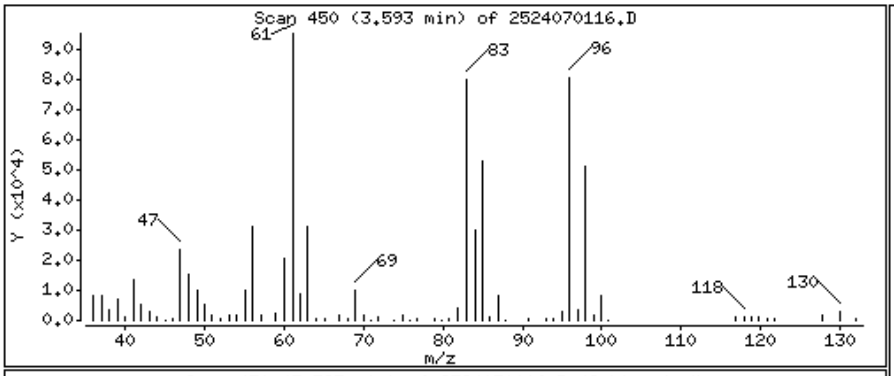
Client ID: ICT12D_062024 Instrument: ms25.i

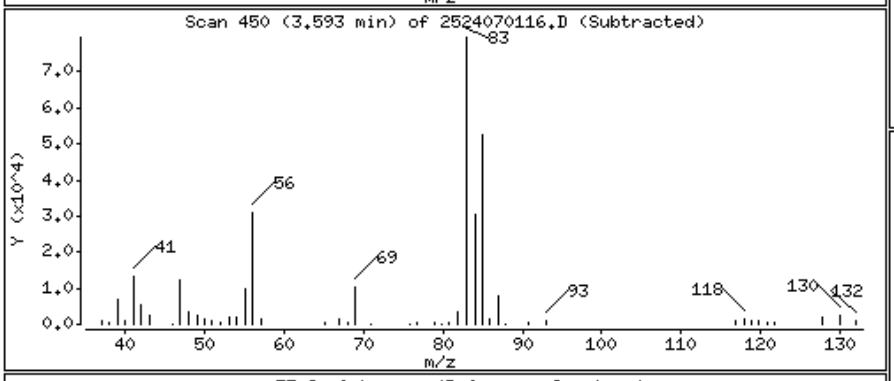
Sample Info: 3366026009;;1;;;;;

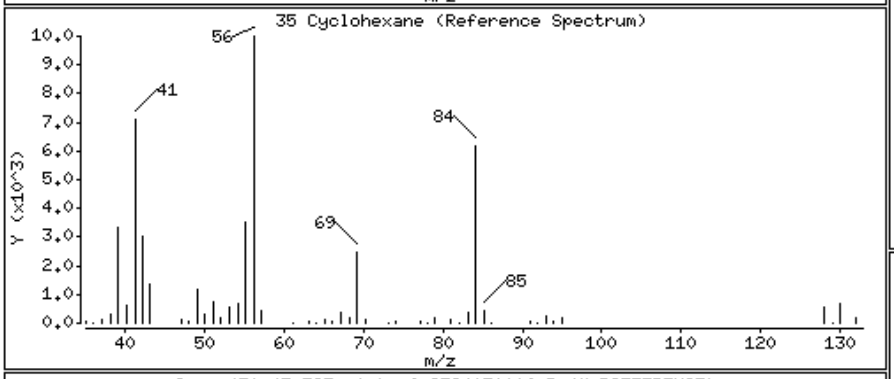
Purge Volume: 5.0 Operator: TMP

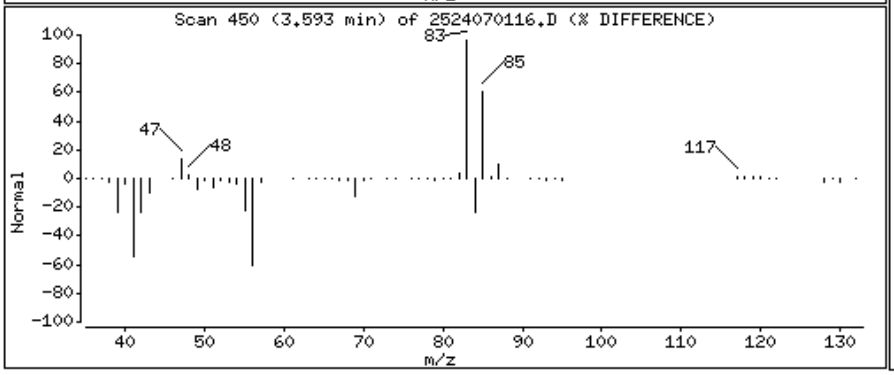
Column phase: DB-VRX Column diameter: 0.25

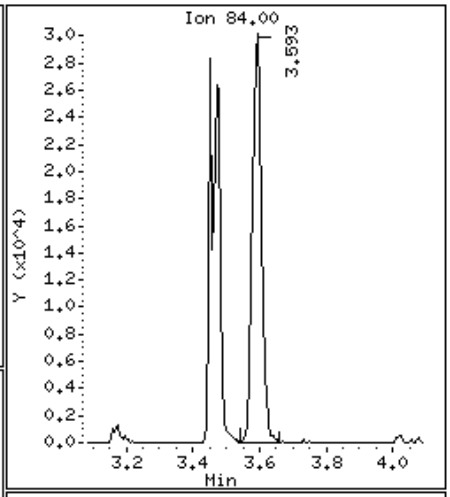
35 Cyclohexane Concentration: 4.96791 ug/L

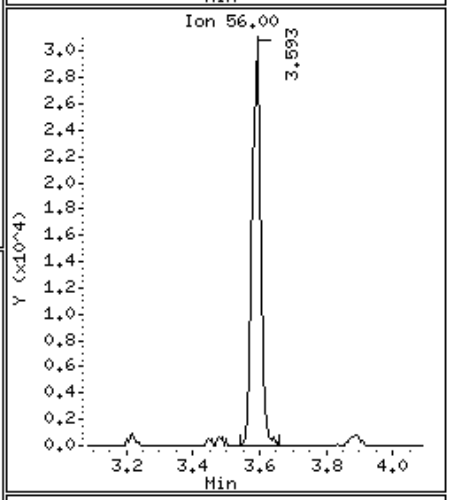


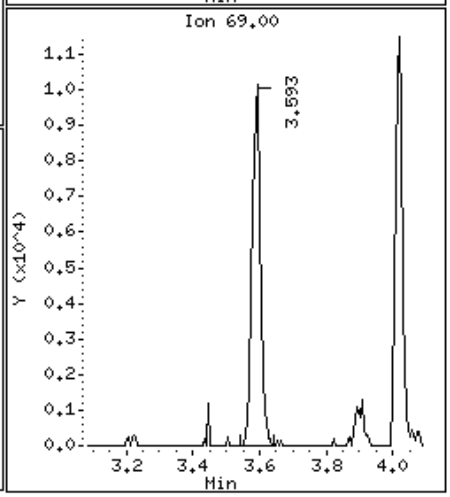












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 10

Date : 01-JUL-2024 14:59

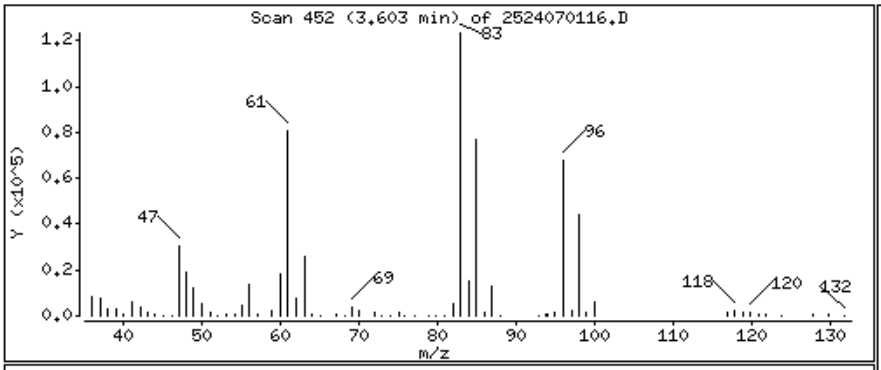
Client ID: ICT12D_062024 Instrument: ms25.i

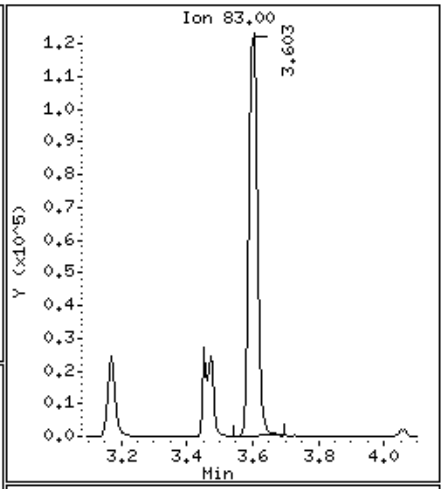
Sample Info: 3366026009;;1;;;;;

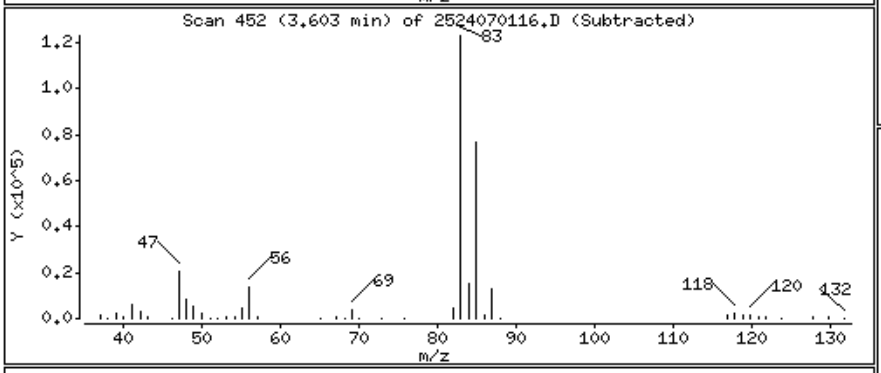
Purge Volume: 5.0 Operator: TMP

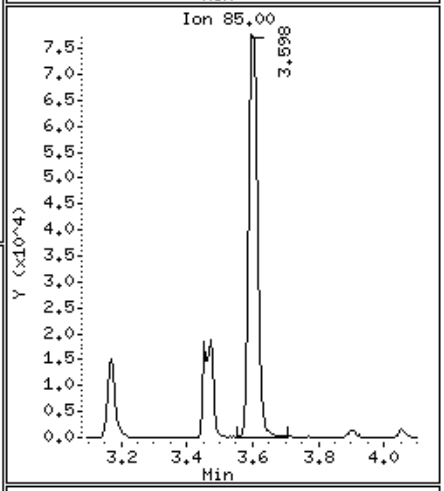
Column phase: DB-VRX Column diameter: 0.25

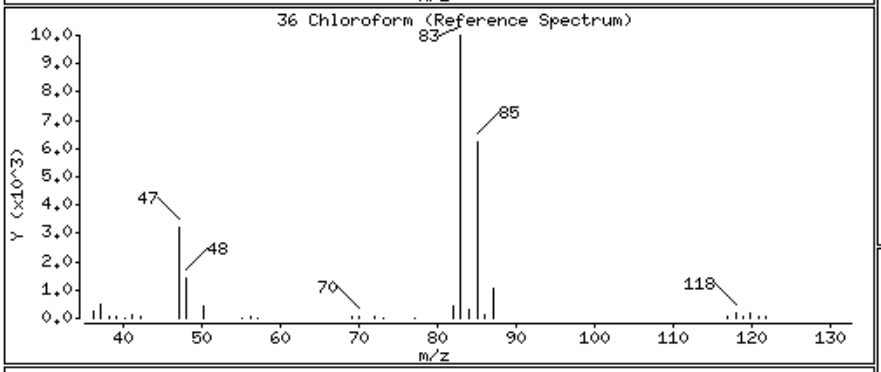
36 Chloroform Concentration: 14.9715 ug/L

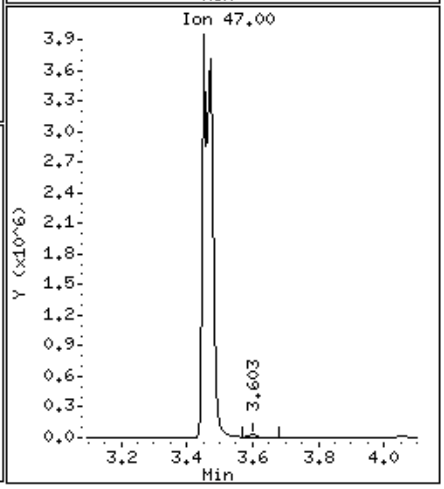


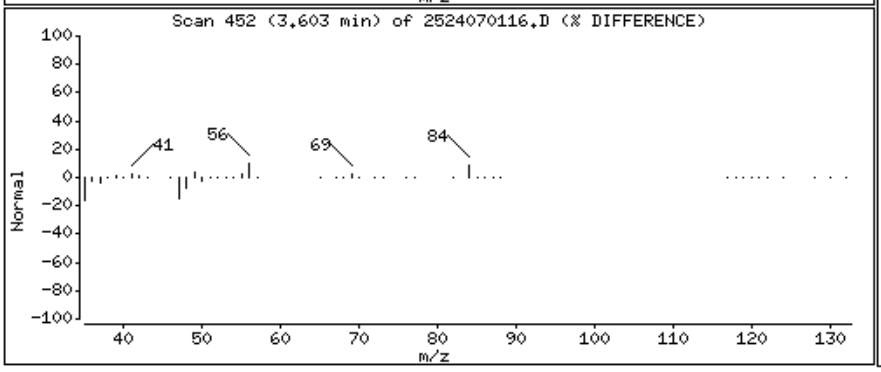












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 11

Date : 01-JUL-2024 14:59

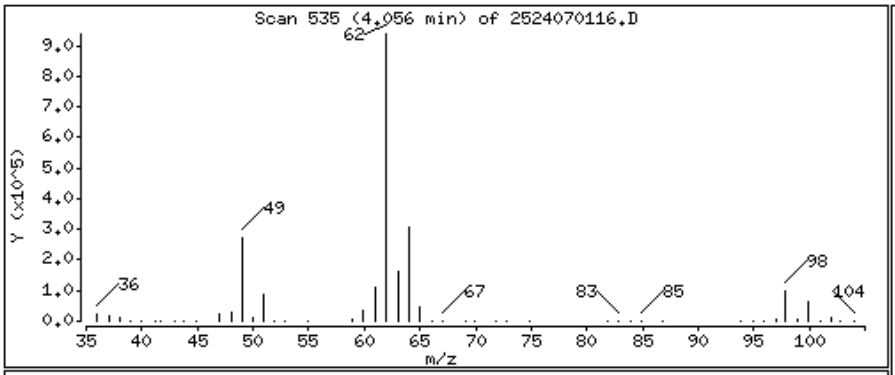
Client ID: ICT12D_062024 Instrument: ms25.i

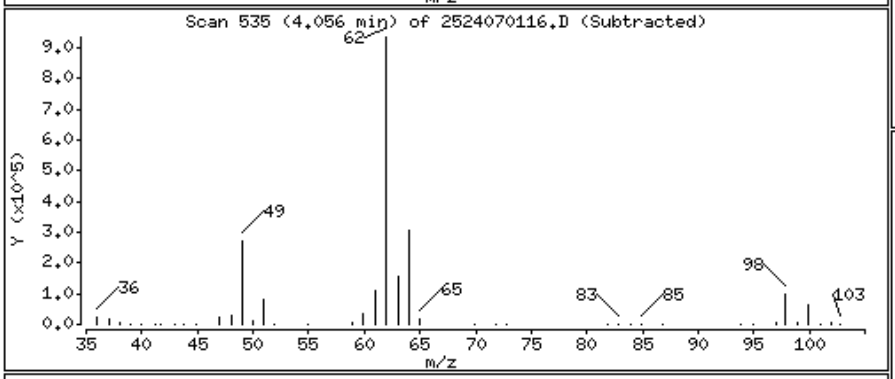
Sample Info: 3366026009;;1;;;;;

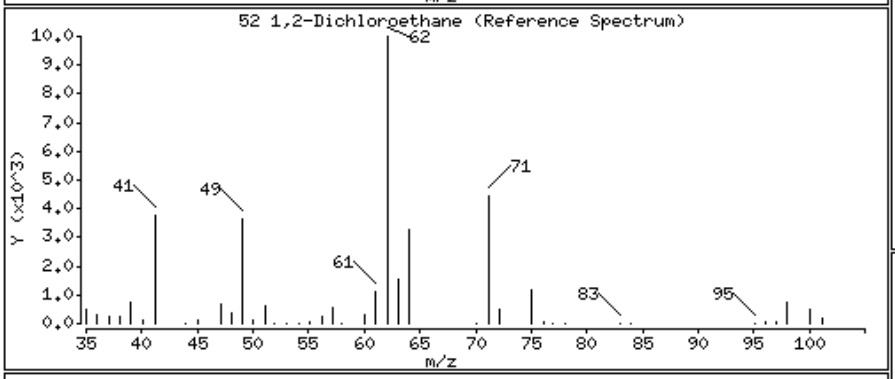
Purge Volume: 5.0 Operator: TMP

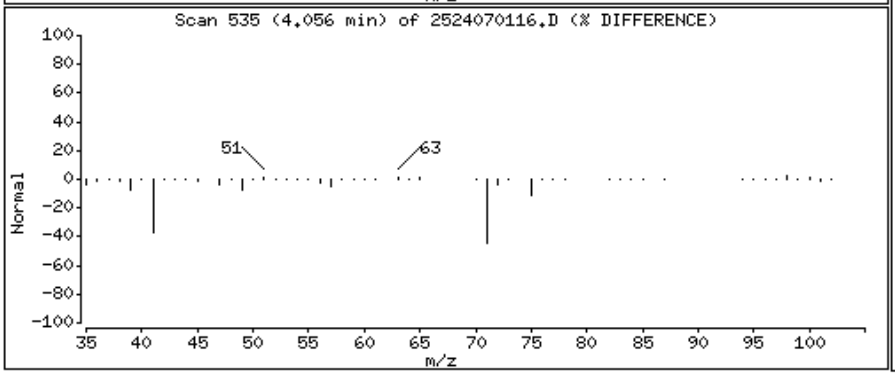
Column phase: DB-VRX Column diameter: 0.25

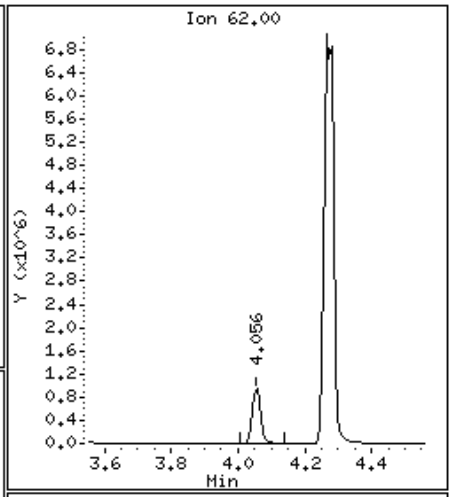
52 1,2-Dichloroethane Concentration: 158.391 ug/L

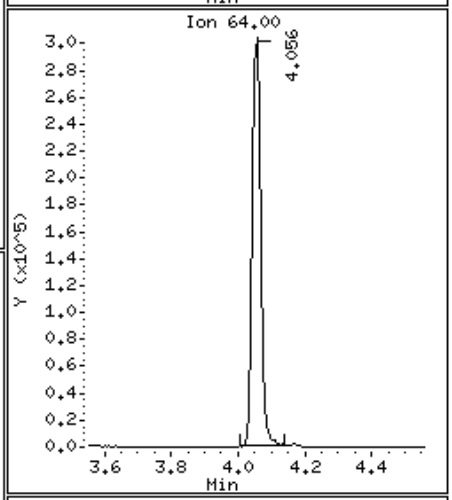


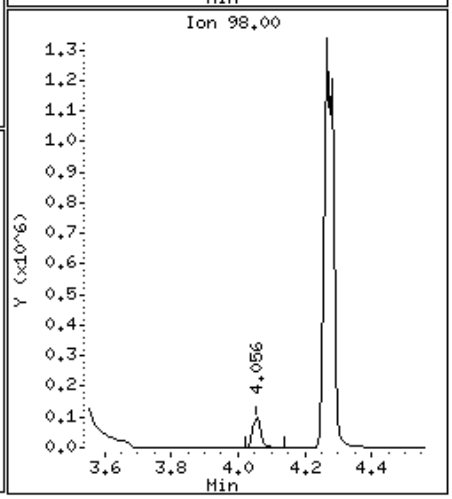












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 12

Date : 01-JUL-2024 14:59

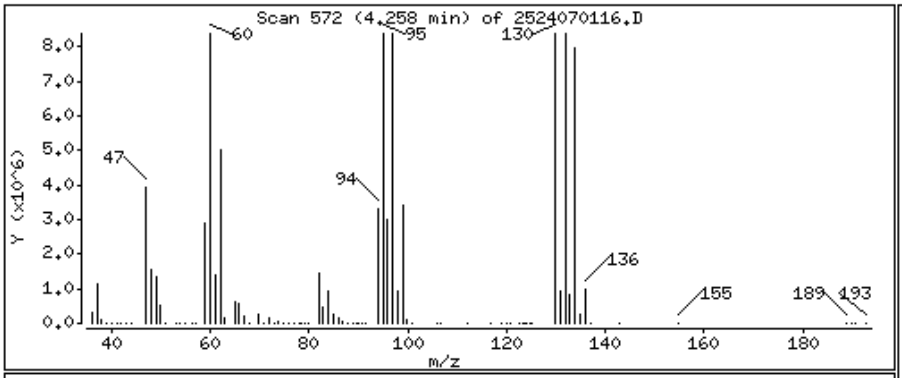
Client ID: ICT12D_062024 Instrument: ms25.i

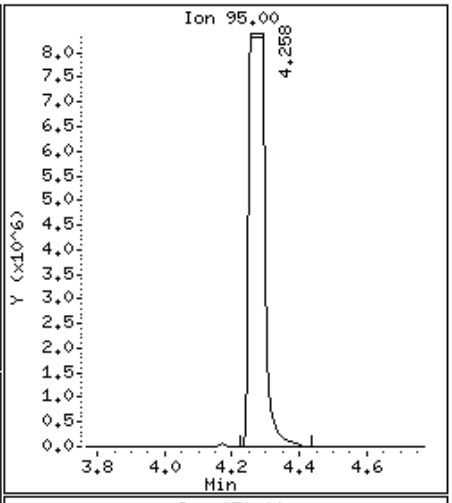
Sample Info: 3366026009;;1;;;;;

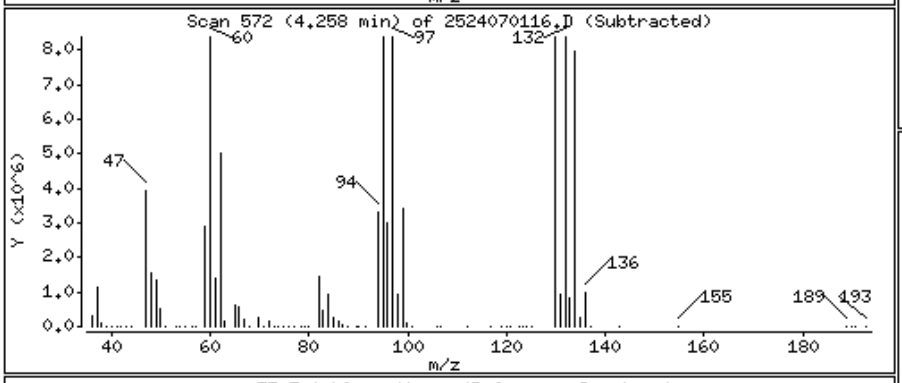
Purge Volume: 5.0 Operator: TMP

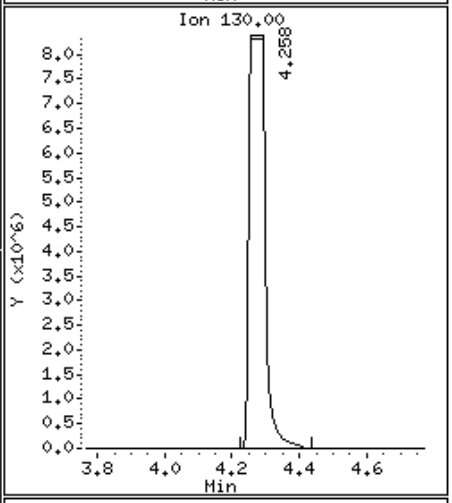
Column phase: DB-VRX Column diameter: 0.25

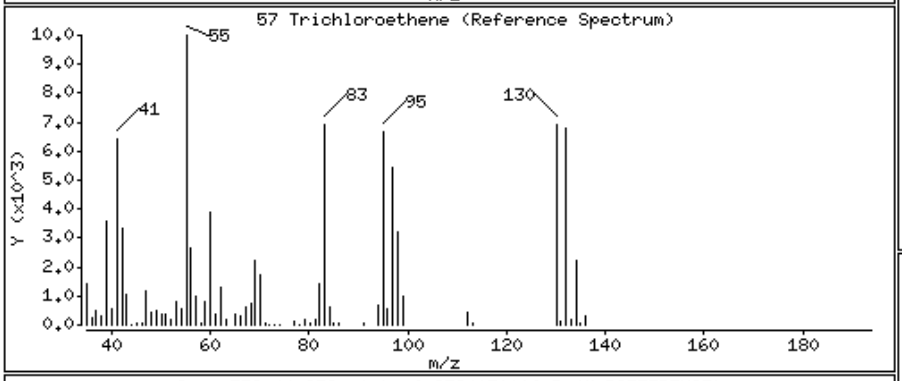
57 Trichloroethene Concentration: 3557.61 ug/L

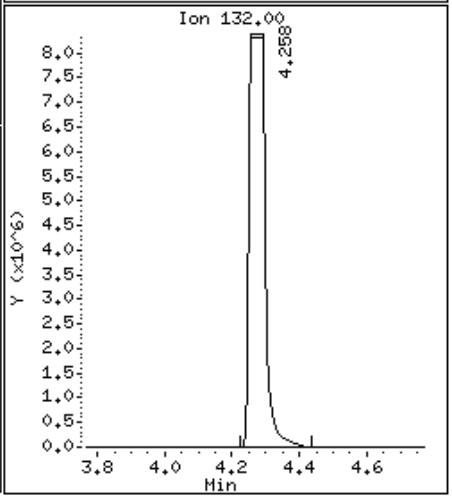


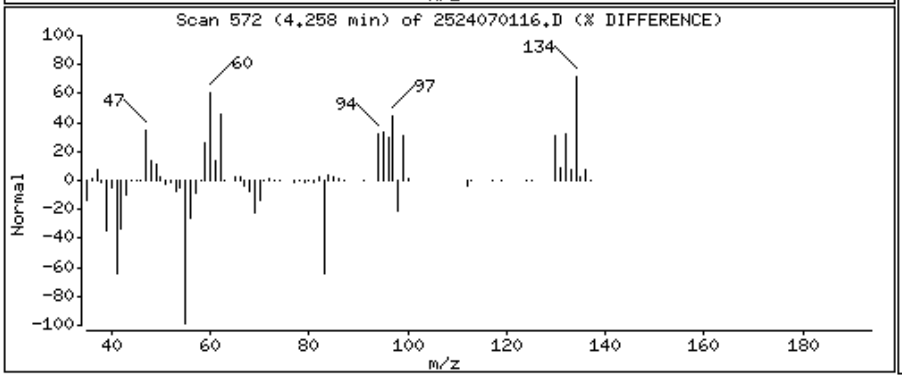












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 13

Date : 01-JUL-2024 14:59

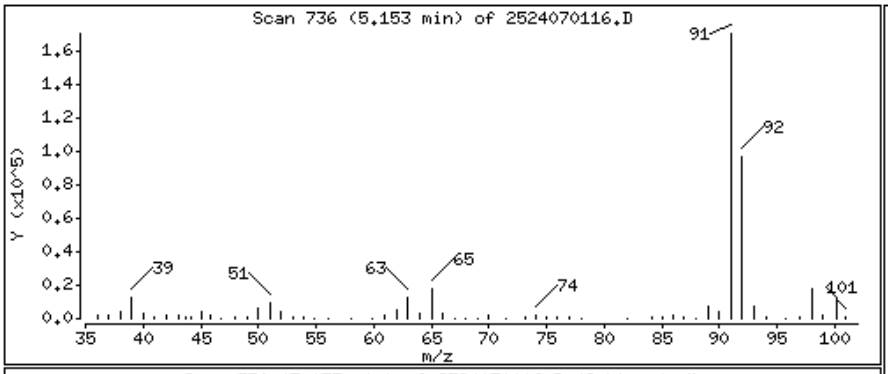
Client ID: ICT12D_062024 Instrument: ms25.i

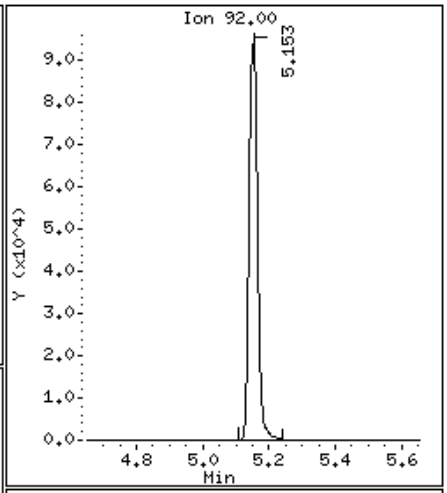
Sample Info: 3366026009;;1;;;;;

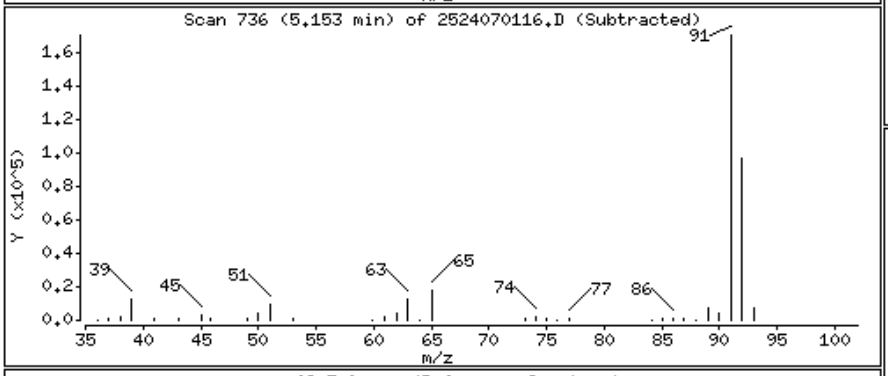
Purge Volume: 5.0 Operator: TMP

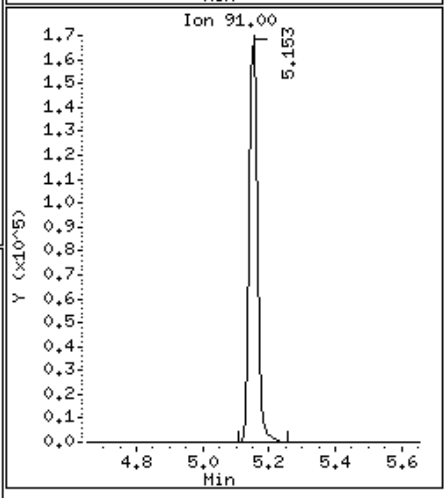
Column phase: DB-VRX Column diameter: 0.25

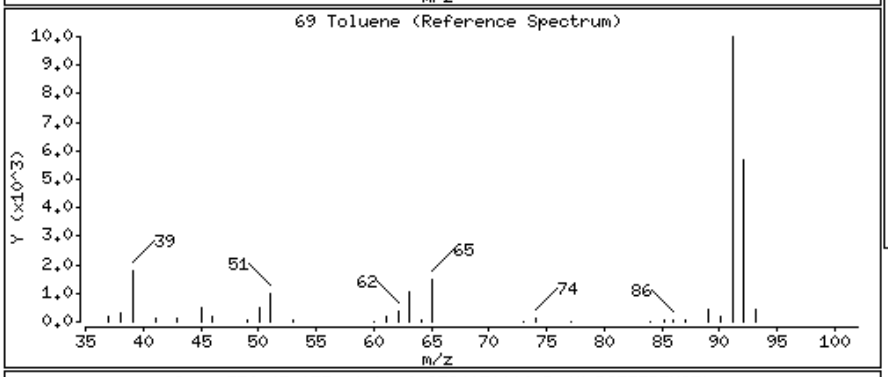
69 Toluene Concentration: 8.20314 ug/L

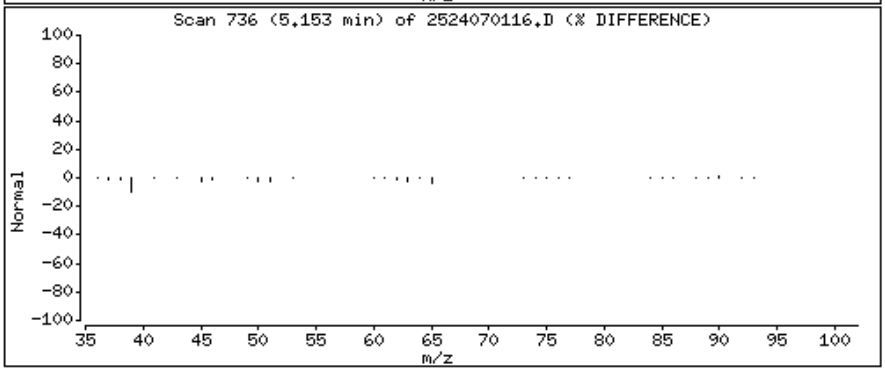












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 14

Date : 01-JUL-2024 14:59

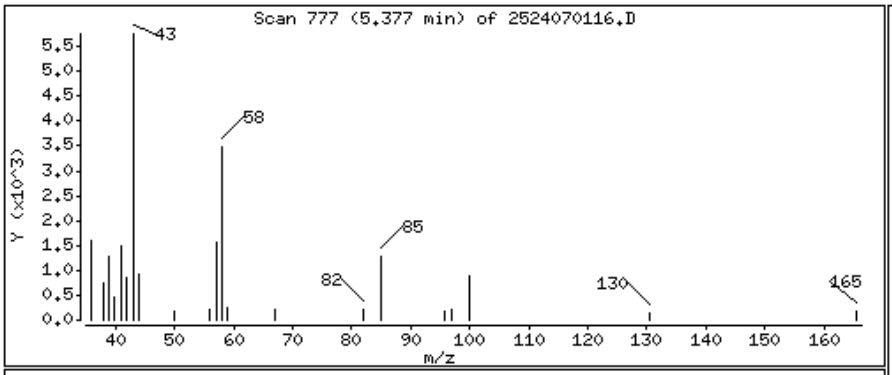
Client ID: ICT12D_062024 Instrument: ms25.i

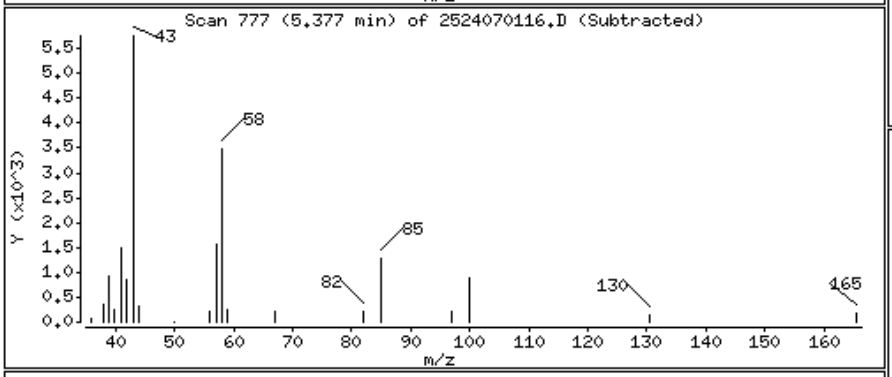
Sample Info: 3366026009;;1;;;;;

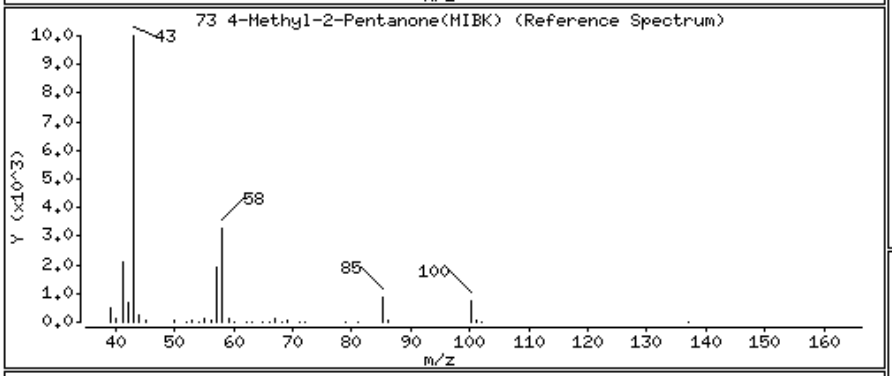
Purge Volume: 5.0 Operator: TMP

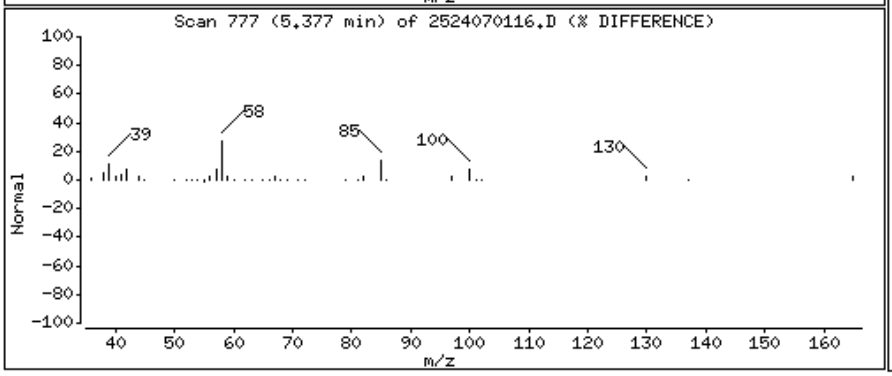
Column phase: DB-VRX Column diameter: 0.25

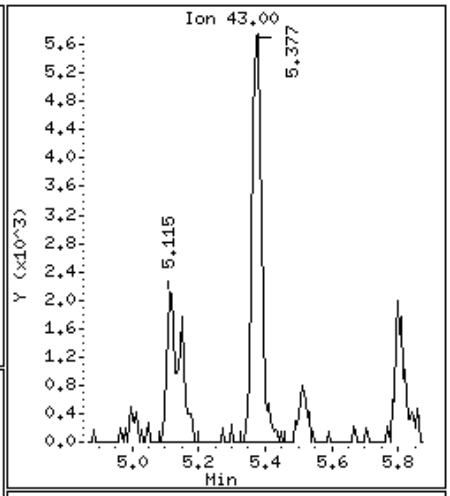
73 4-Methyl-2-Pentanone(MIBK) Concentration: 2.49253 ug/L

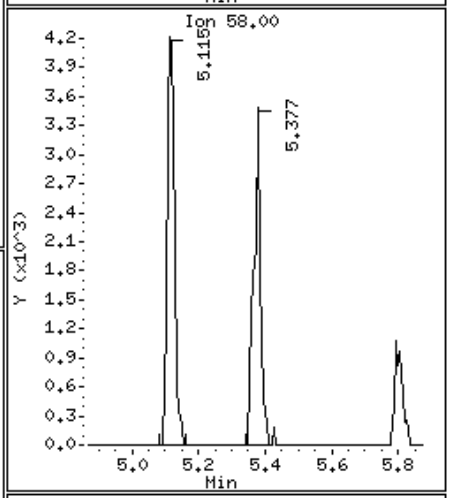


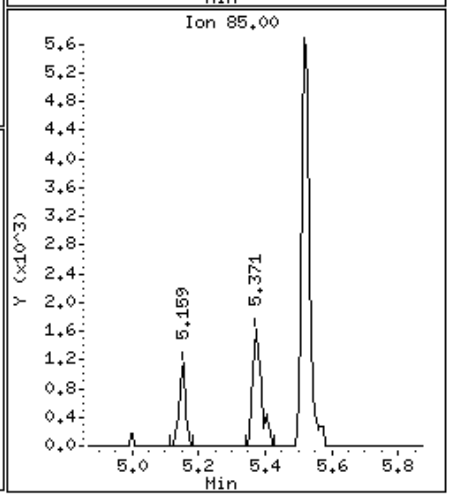












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 15

Date : 01-JUL-2024 14:59

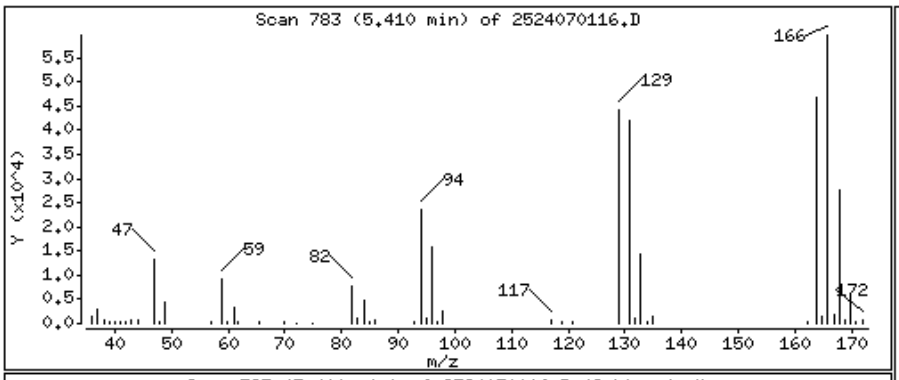
Client ID: ICT12D_062024 Instrument: ms25.i

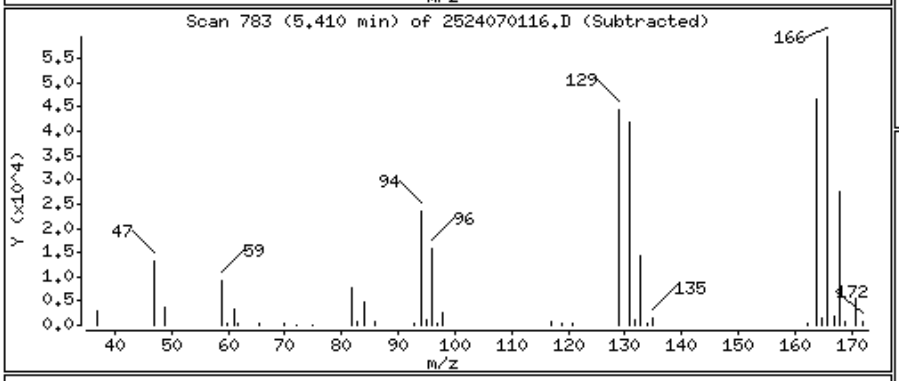
Sample Info: 3366026009;;1;;;;;

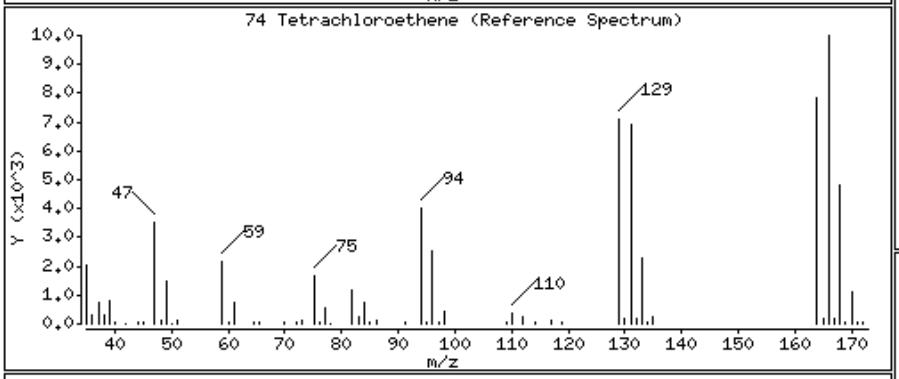
Purge Volume: 5.0 Operator: TMP

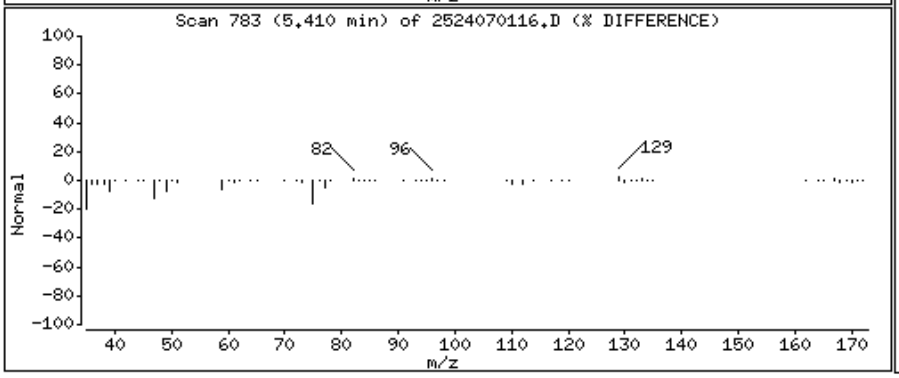
Column phase: DB-VRX Column diameter: 0.25

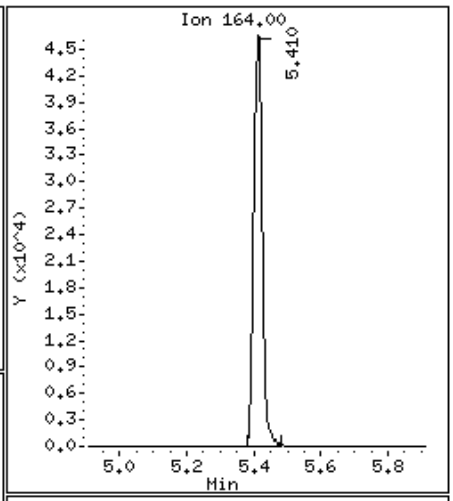
74 Tetrachloroethene Concentration: 11.2518 ug/L

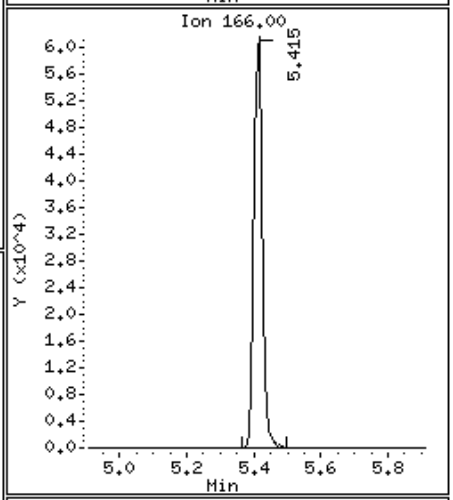


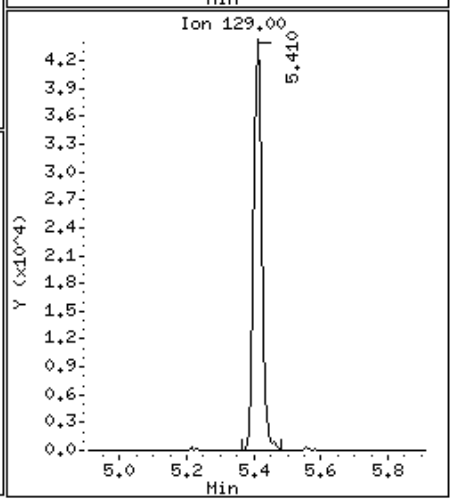












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 16

Date : 01-JUL-2024 14:59

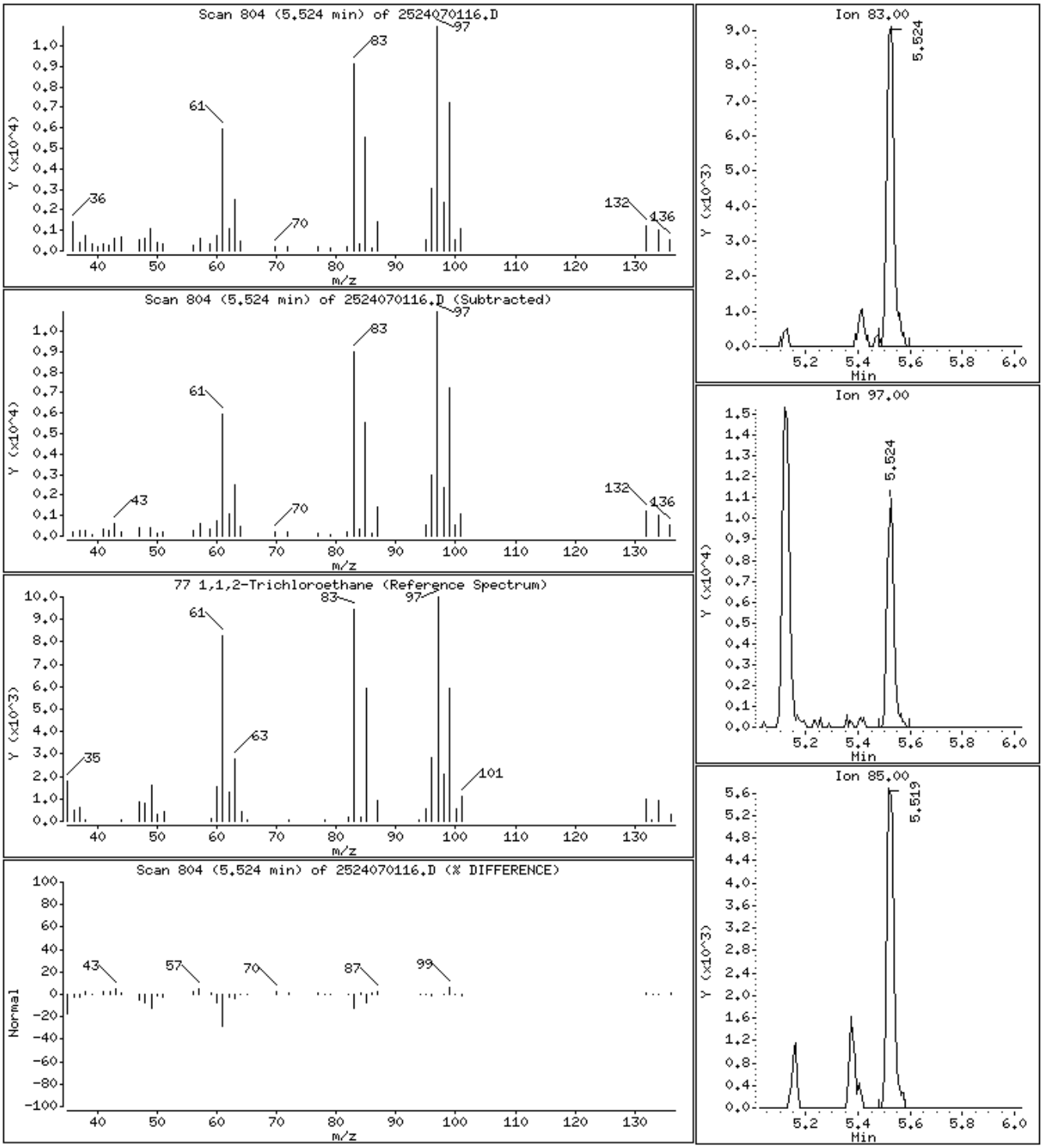
Client ID: ICT12D_062024 Instrument: ms25.i

Sample Info: 3366026009;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

77 1,1,2-Trichloroethane Concentration: 2.86532 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 17

Date : 01-JUL-2024 14:59

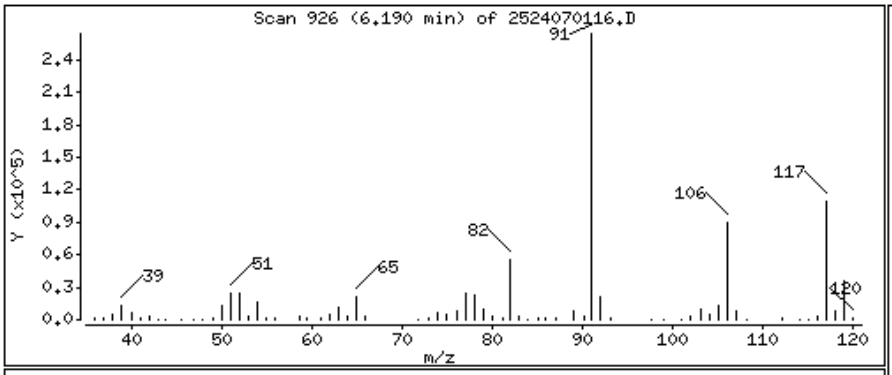
Client ID: ICT12D_062024 Instrument: ms25.i

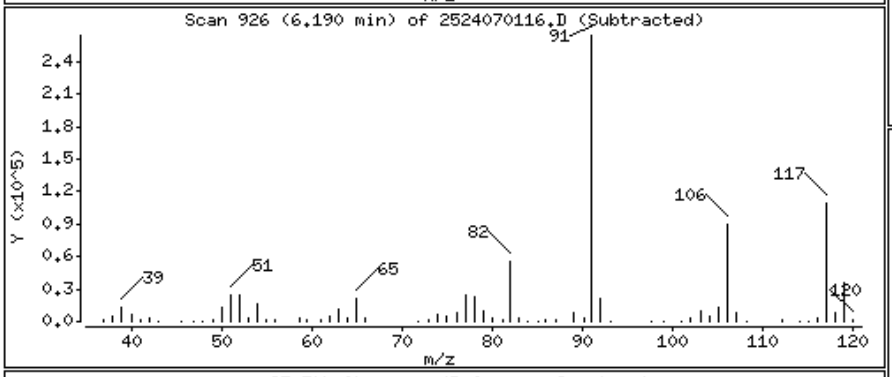
Sample Info: 3366026009;;1;;;;;

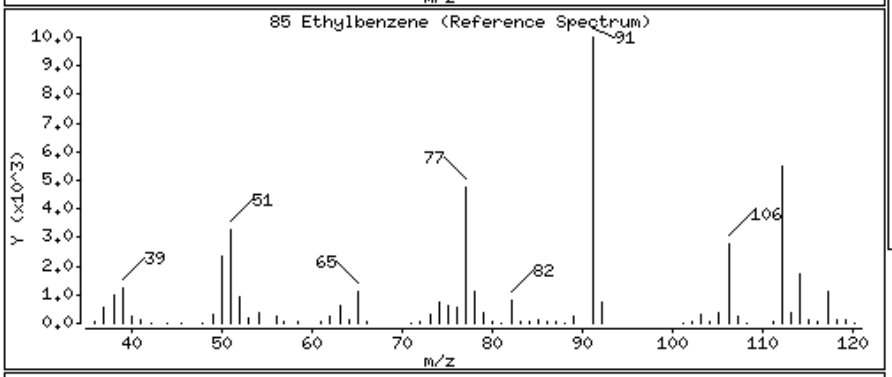
Purge Volume: 5.0 Operator: TMP

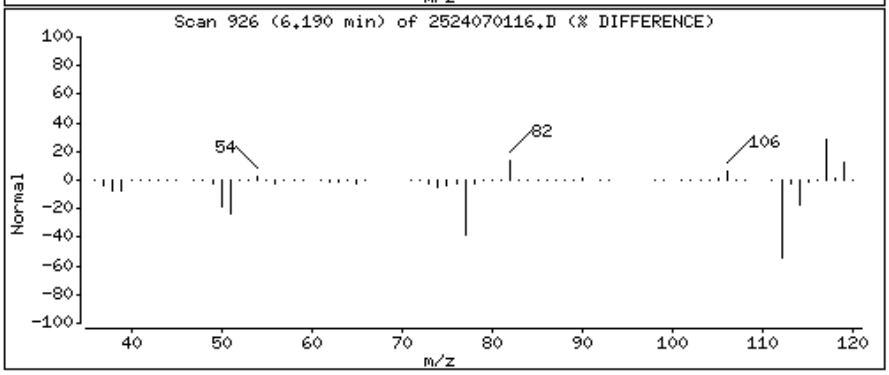
Column phase: DB-VRX Column diameter: 0.25

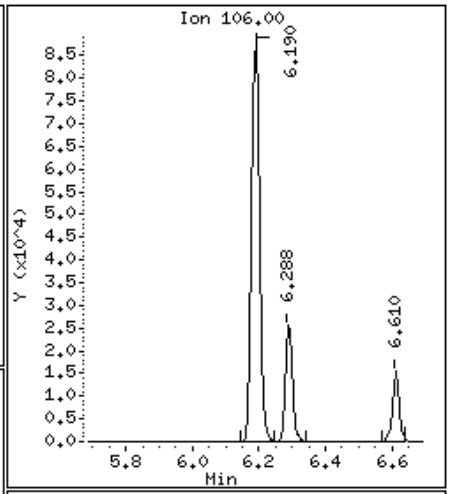
85 Ethylbenzene Concentration: 12.0473 ug/L

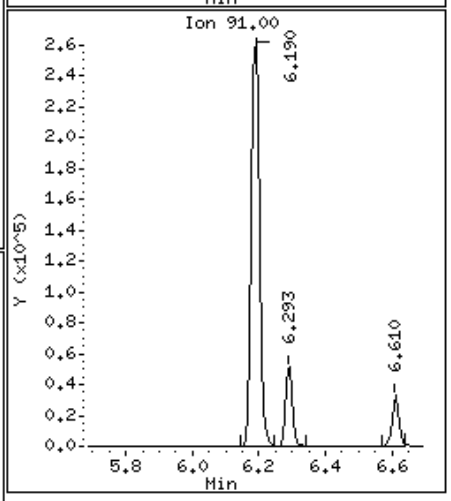












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 18

Date : 01-JUL-2024 14:59

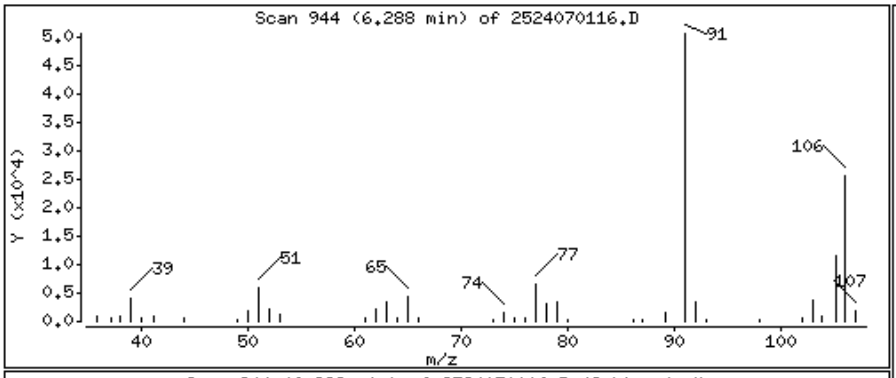
Client ID: ICT12D_062024 Instrument: ms25.i

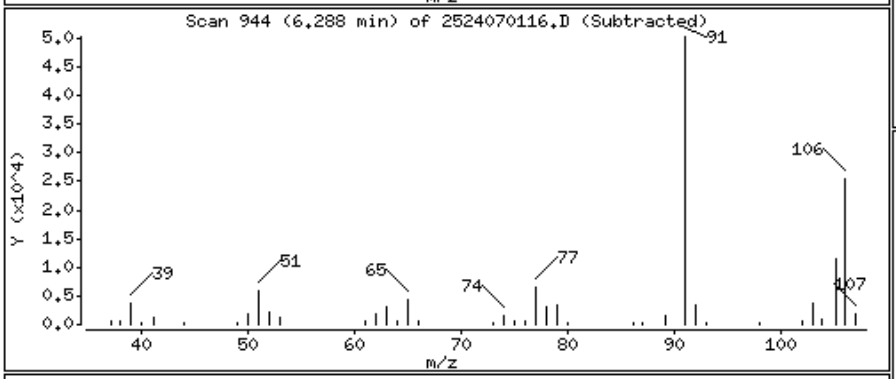
Sample Info: 3366026009;;1;;;;;

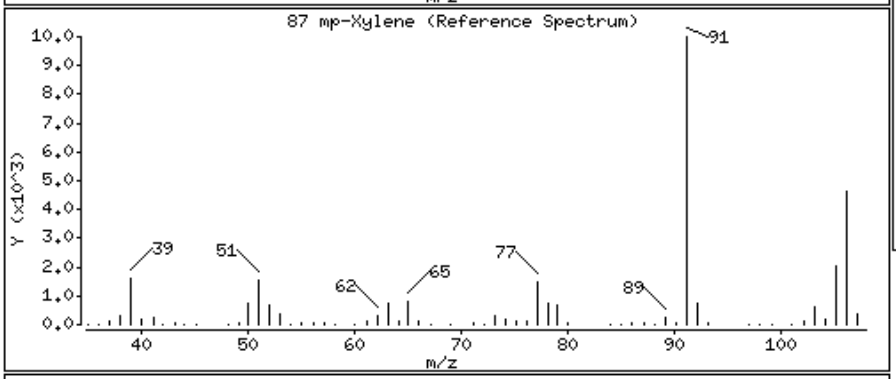
Purge Volume: 5.0 Operator: TMP

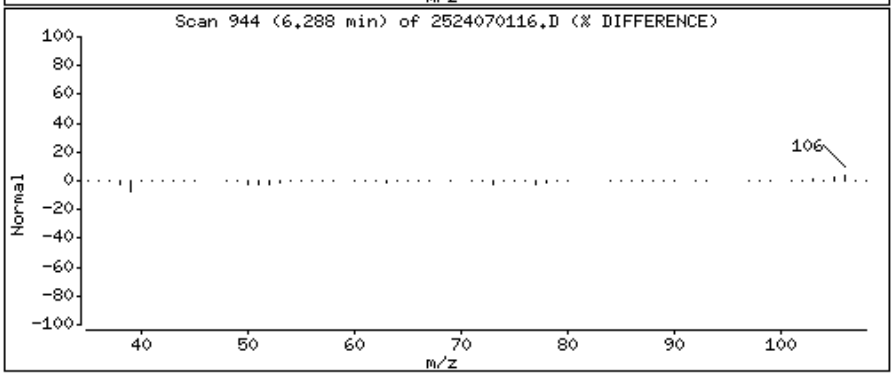
Column phase: DB-VRX Column diameter: 0.25

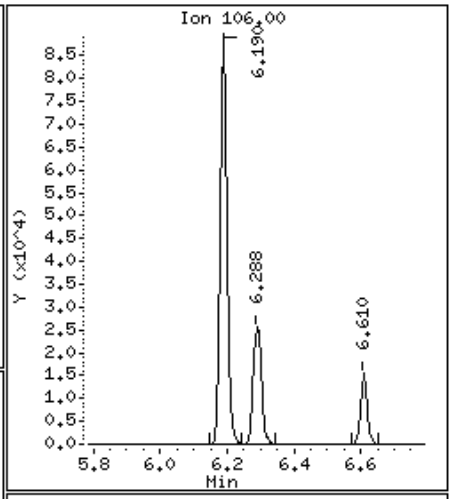
87 mp-Xylene Concentration: 2.34276 ug/L

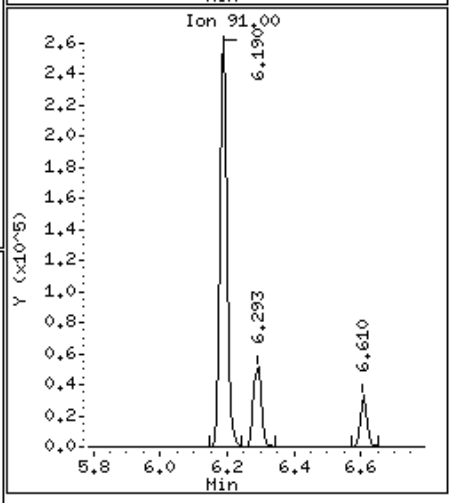












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 19

Date : 01-JUL-2024 14:59

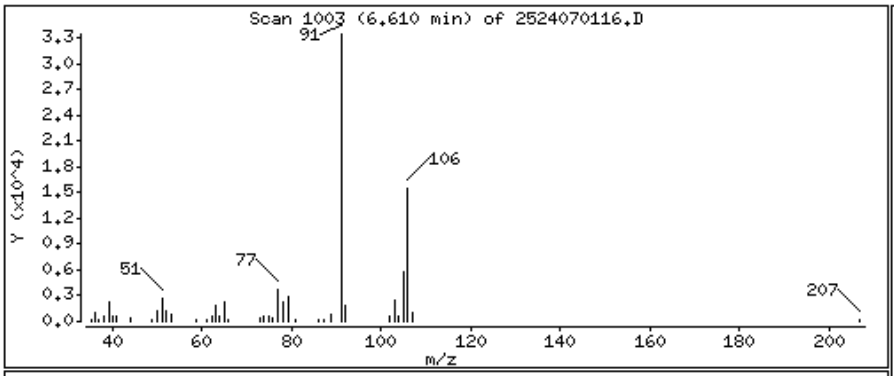
Client ID: ICT12D_062024 Instrument: ms25.i

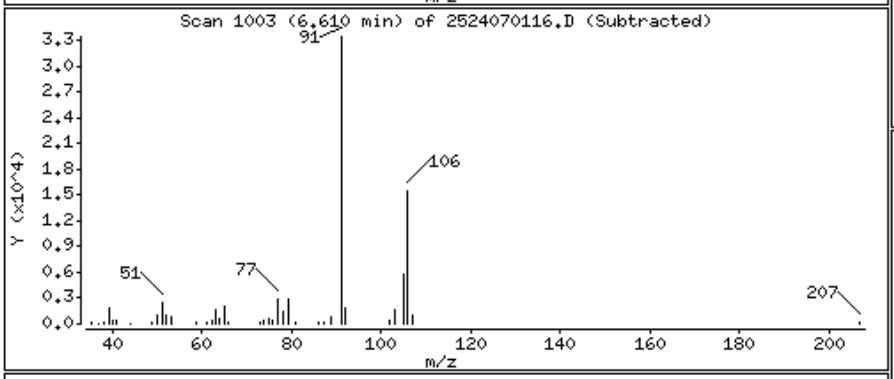
Sample Info: 3366026009;;1;;;;;

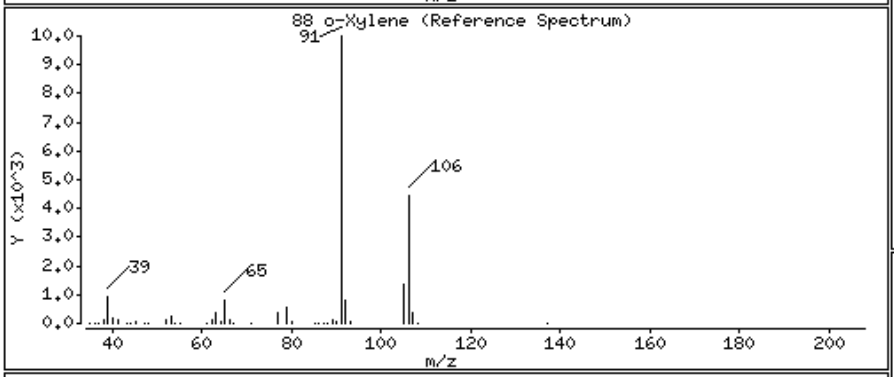
Purge Volume: 5.0 Operator: TMP

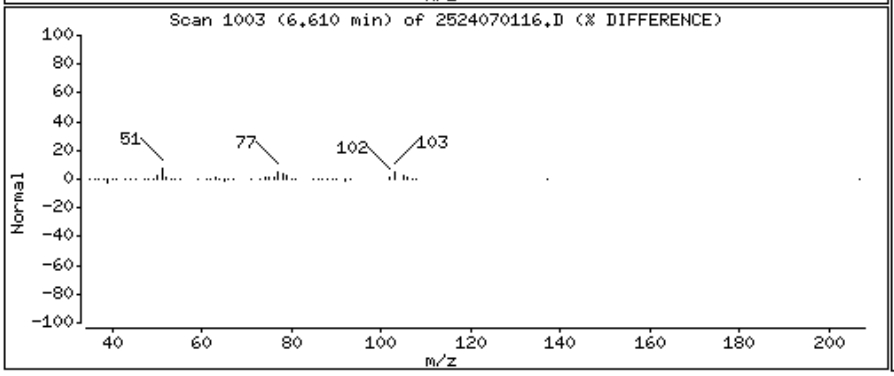
Column phase: DB-VRX Column diameter: 0.25

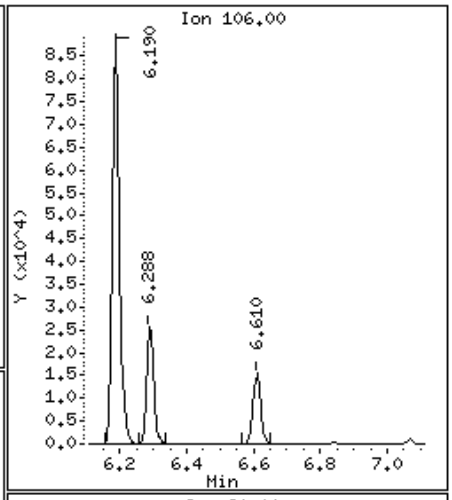
88 o-Xylene Concentration: 1.75640 ug/L

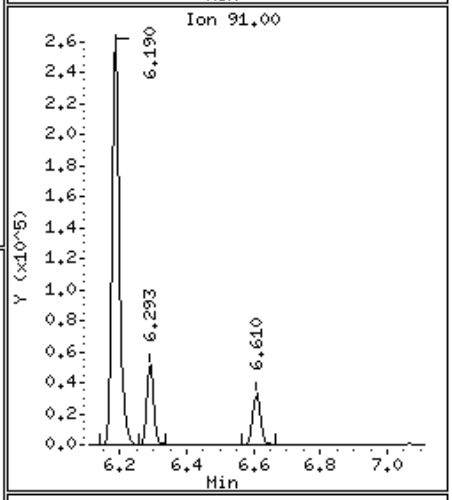


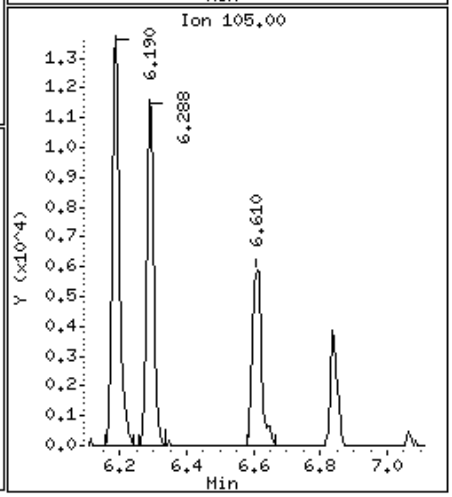












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 20

Date : 01-JUL-2024 14:59

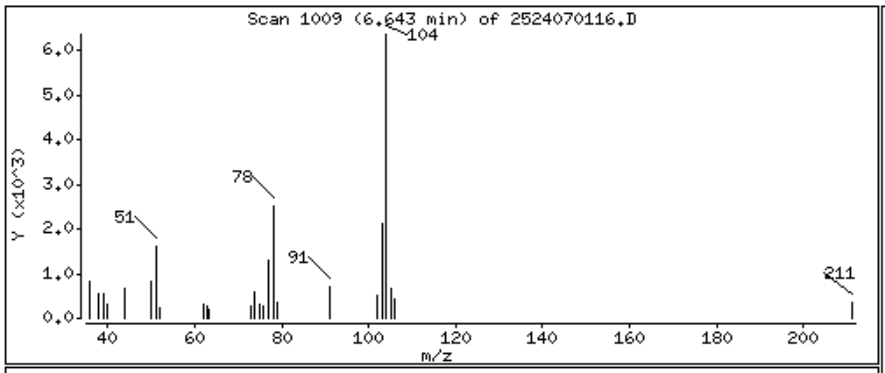
Client ID: ICT12D_062024 Instrument: ms25.i

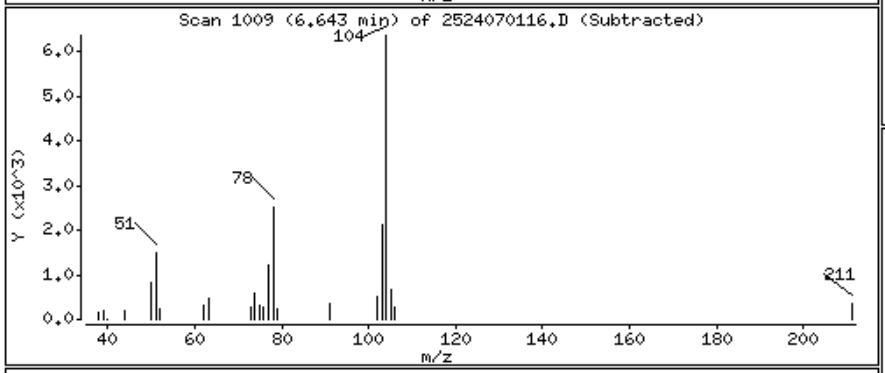
Sample Info: 3366026009;;1;;;;;

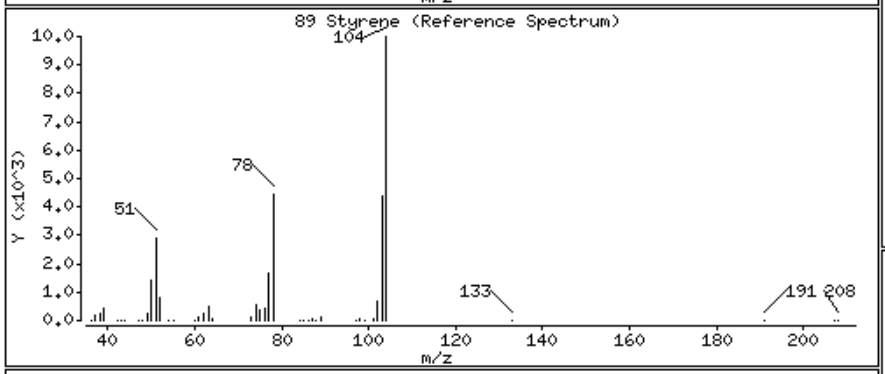
Purge Volume: 5.0 Operator: TMP

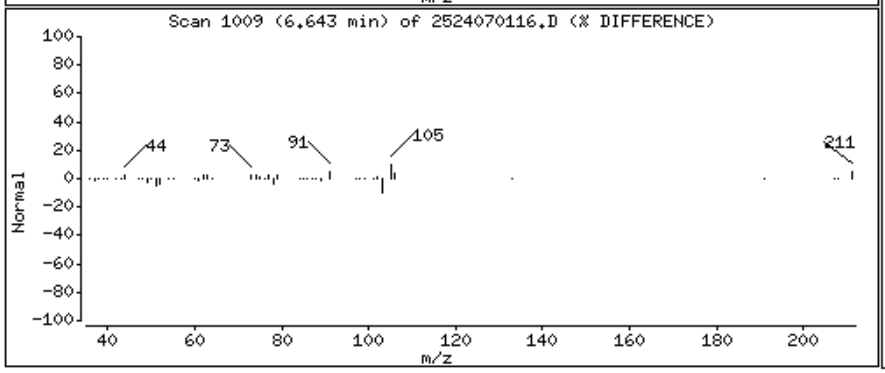
Column phase: DB-VRX Column diameter: 0.25

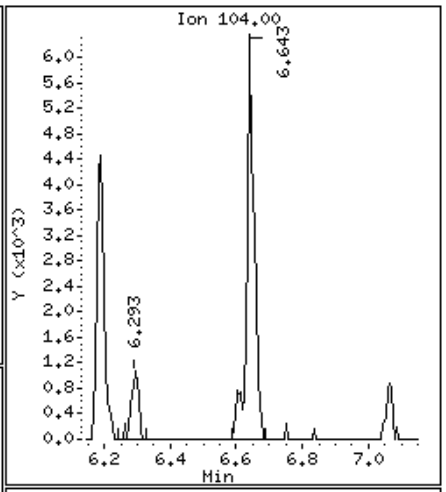
89 Styrene Concentration: 0.775735 ug/L

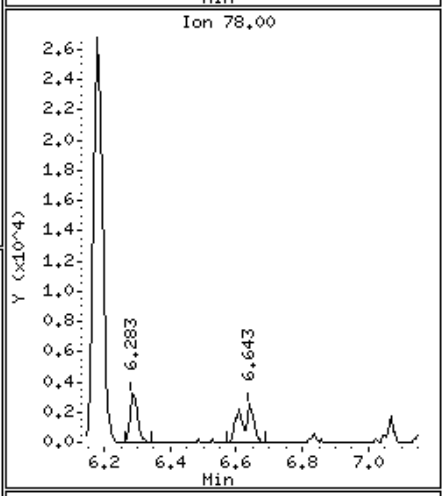


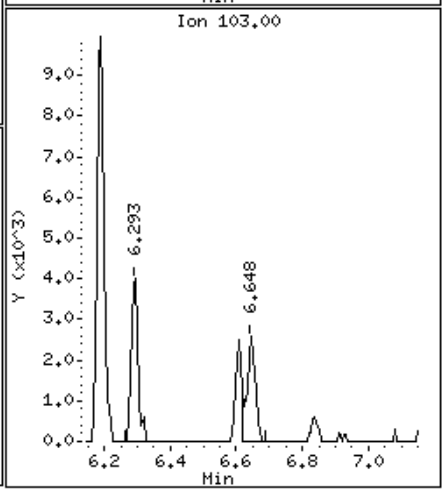












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 21

Date : 01-JUL-2024 14:59

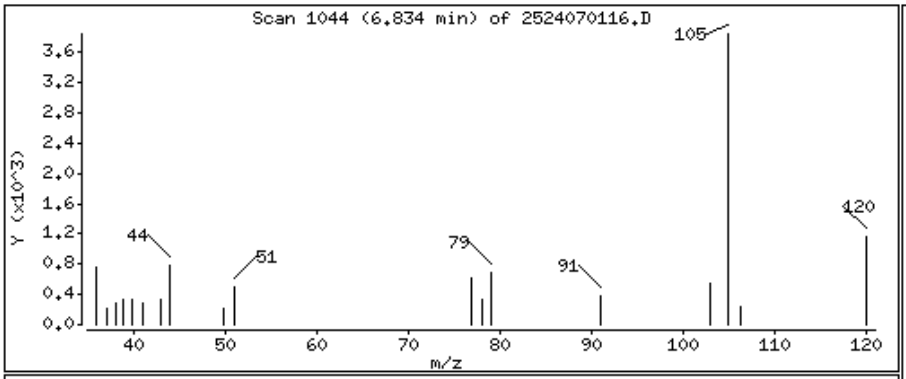
Client ID: ICT12D_062024 Instrument: ms25.i

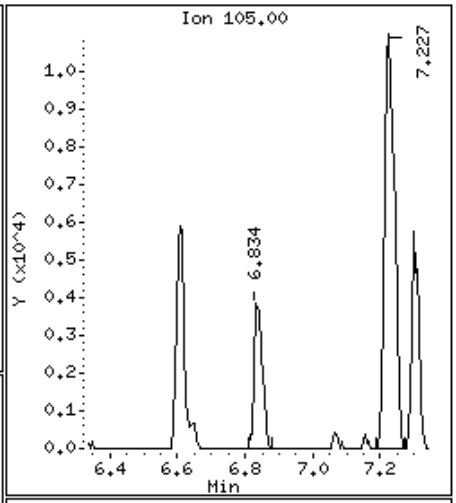
Sample Info: 3366026009;;1;;;;;

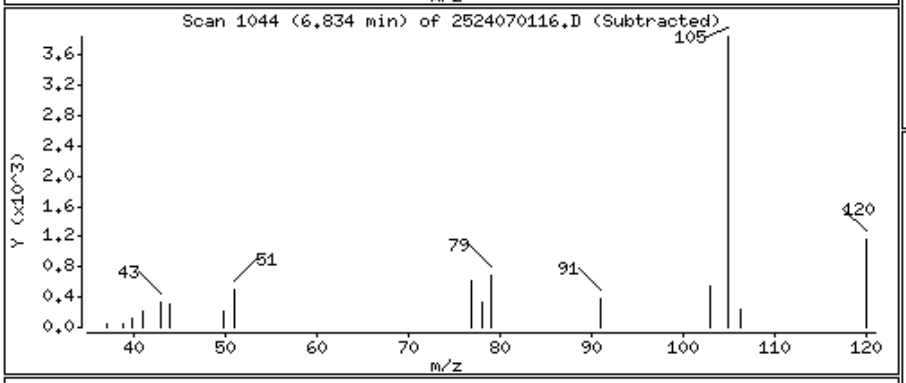
Purge Volume: 5.0 Operator: TMP

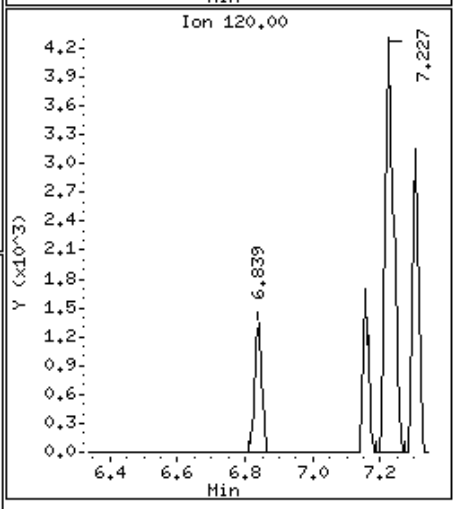
Column phase: DB-VRX Column diameter: 0.25

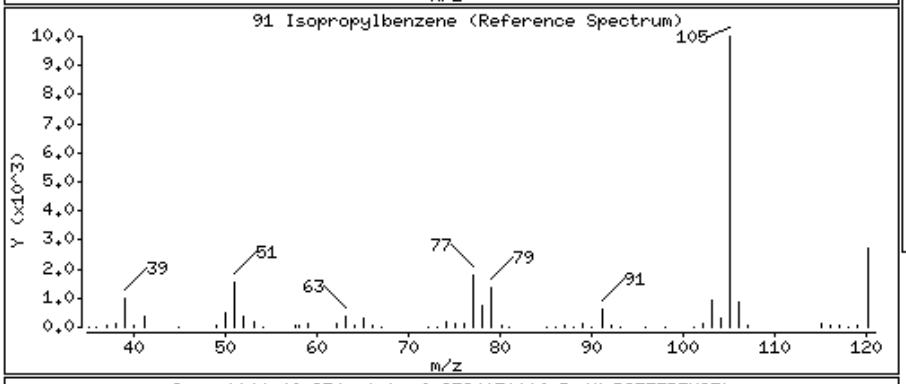
91 Isopropylbenzene Concentration: 0.356220 ug/L

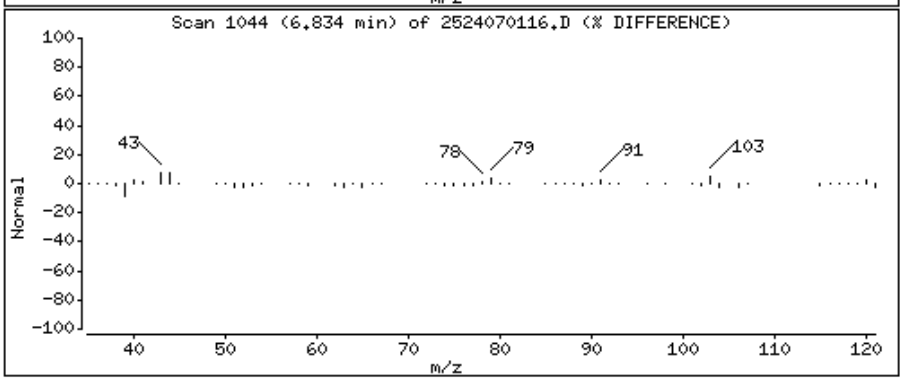












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 22

Date : 01-JUL-2024 14:59

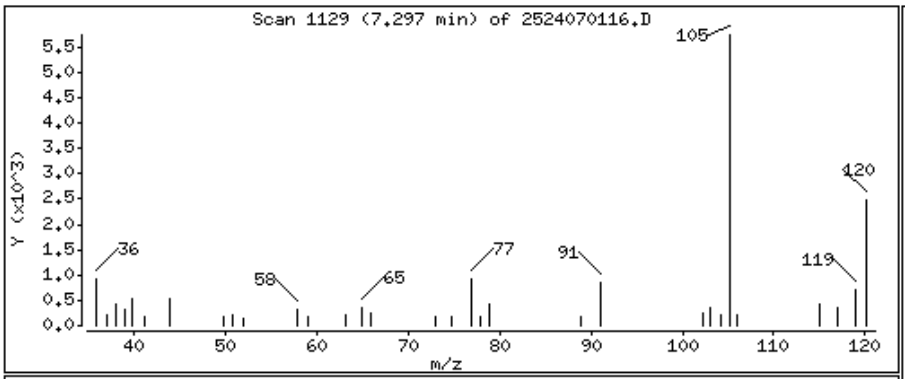
Client ID: ICT12D_062024 Instrument: ms25.i

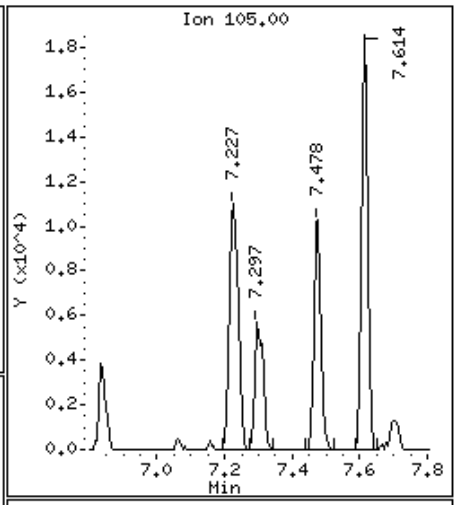
Sample Info: 3366026009;;1;;;;;

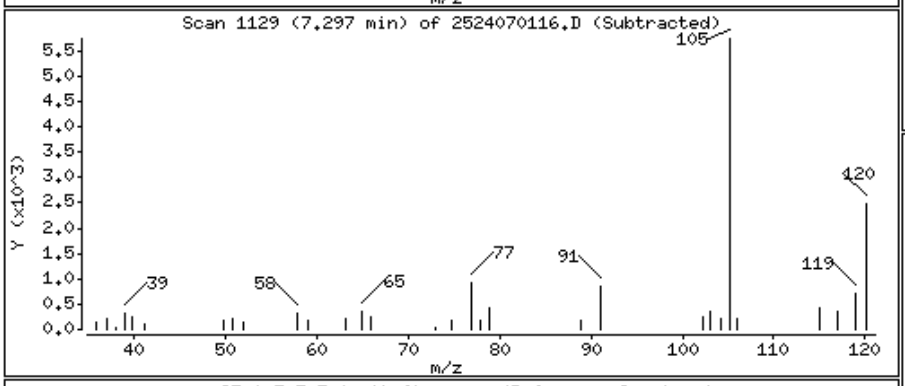
Purge Volume: 5.0 Operator: TMP

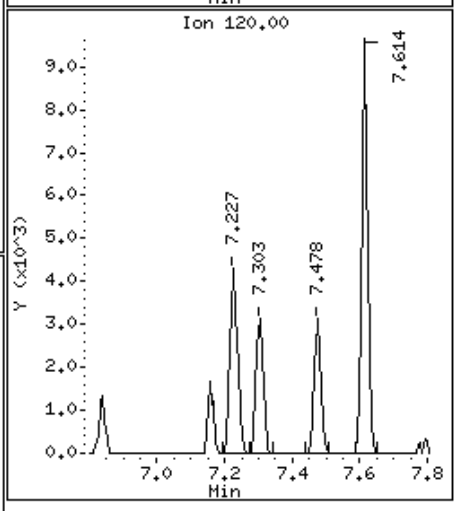
Column phase: DB-VRX Column diameter: 0.25

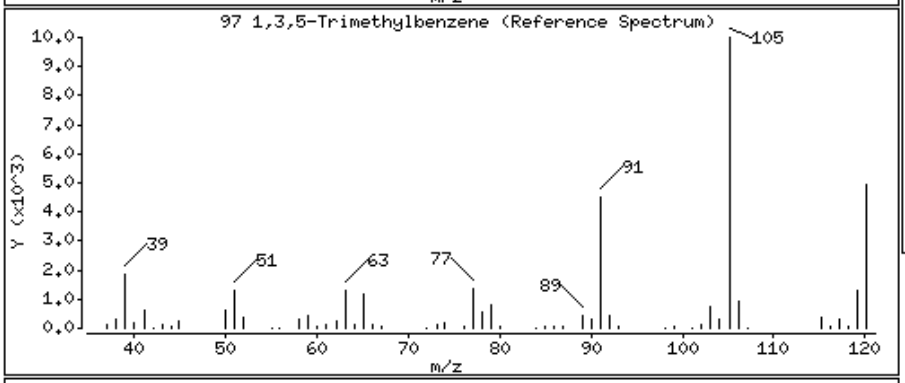
97 1,3,5-Trimethylbenzene Concentration: 0.402584 ug/L

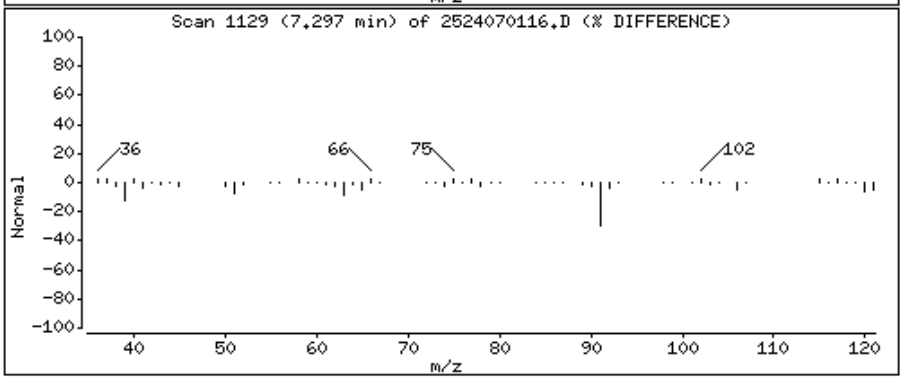












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 23

Date : 01-JUL-2024 14:59

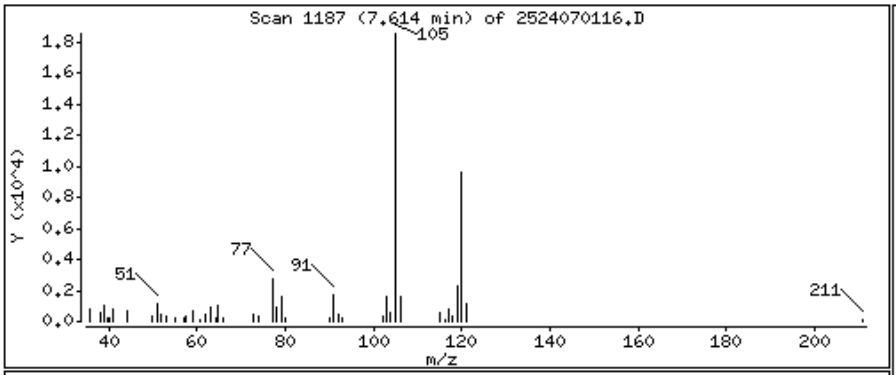
Client ID: ICT12D_062024 Instrument: ms25.i

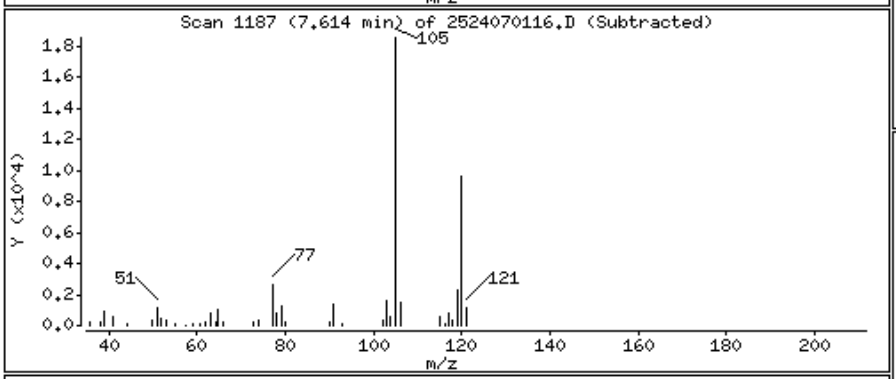
Sample Info: 3366026009;;1;;;;;

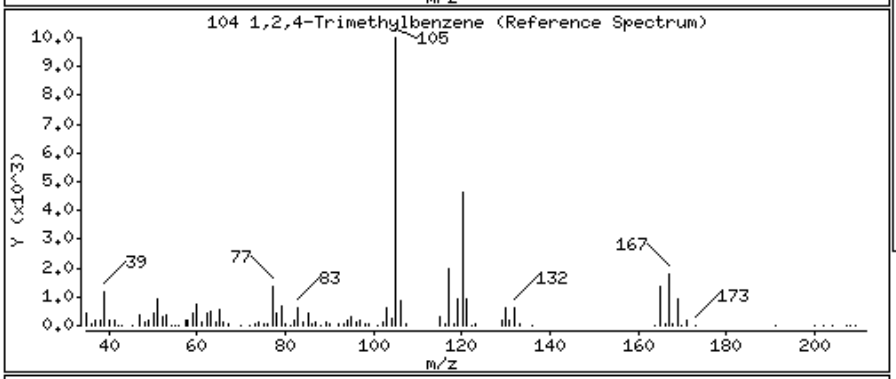
Purge Volume: 5.0 Operator: TMP

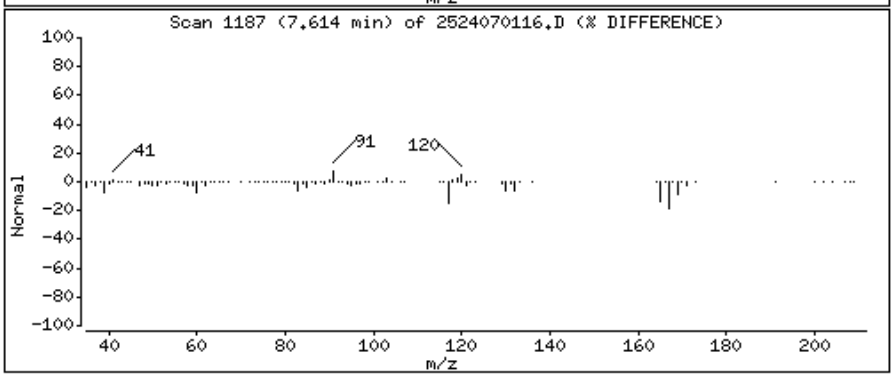
Column phase: DB-VRX Column diameter: 0.25

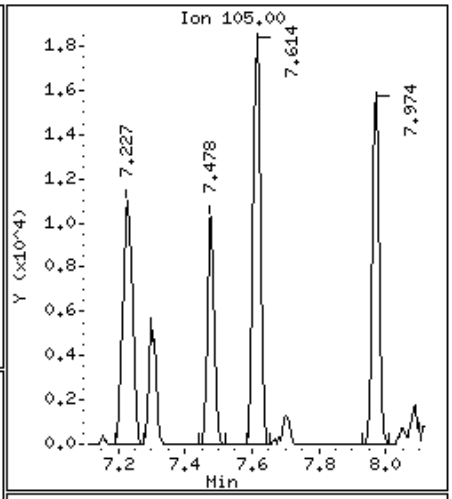
104 1,2,4-Trimethylbenzene Concentration: 0.950359 ug/L

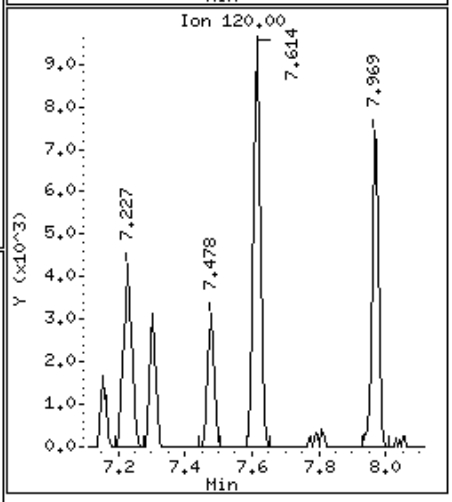












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 24

Date : 01-JUL-2024 14:59

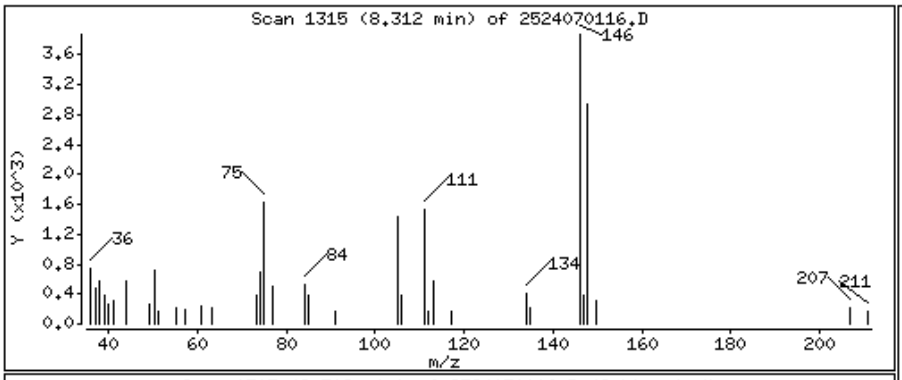
Client ID: ICT12D_062024 Instrument: ms25.i

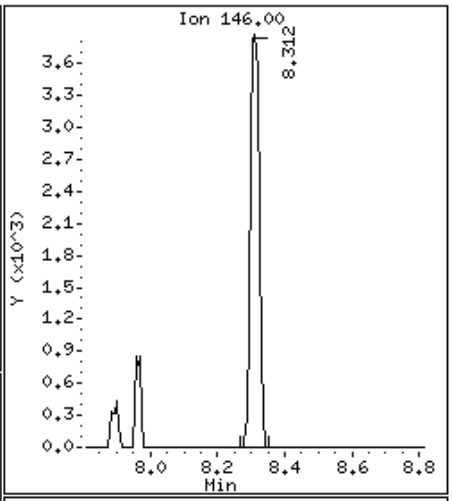
Sample Info: 3366026009;;1;;;;;

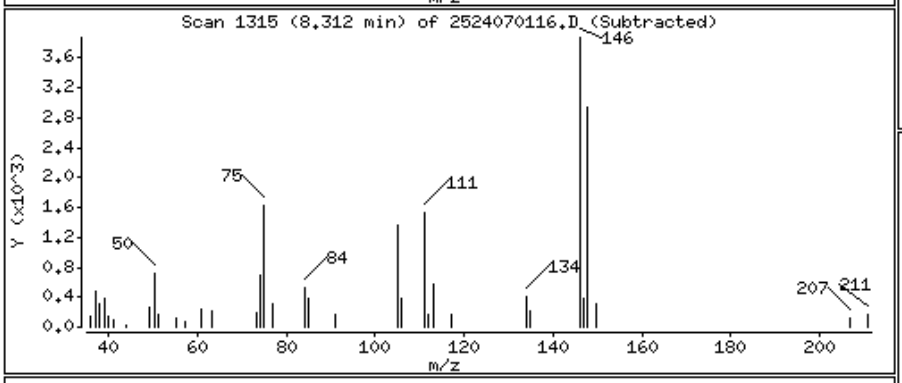
Purge Volume: 5.0 Operator: TMP

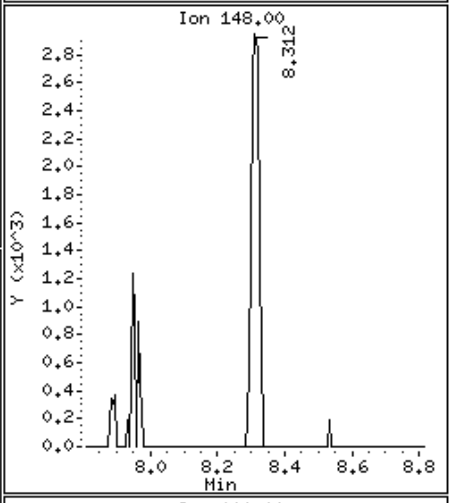
Column phase: DB-VRX Column diameter: 0.25

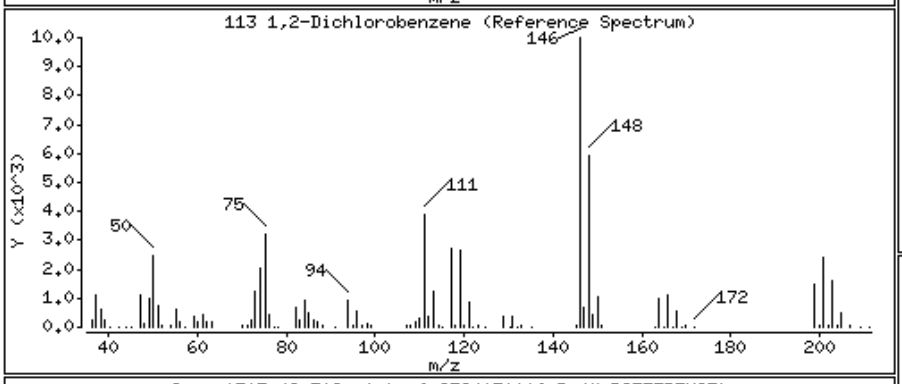
113 1,2-Dichlorobenzene Concentration: 0.529005 ug/L

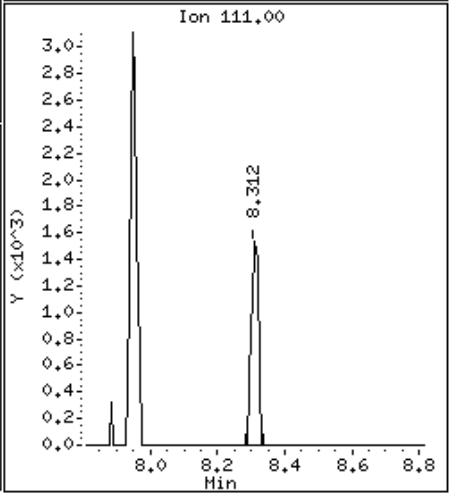


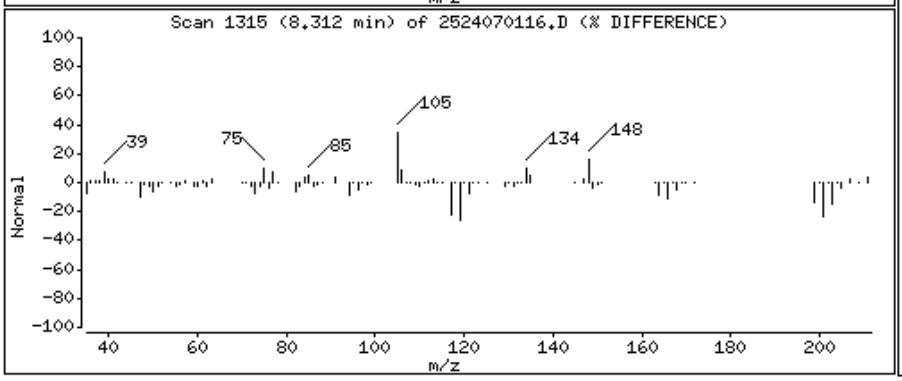












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070116.D Page 25

Date : 01-JUL-2024 14:59

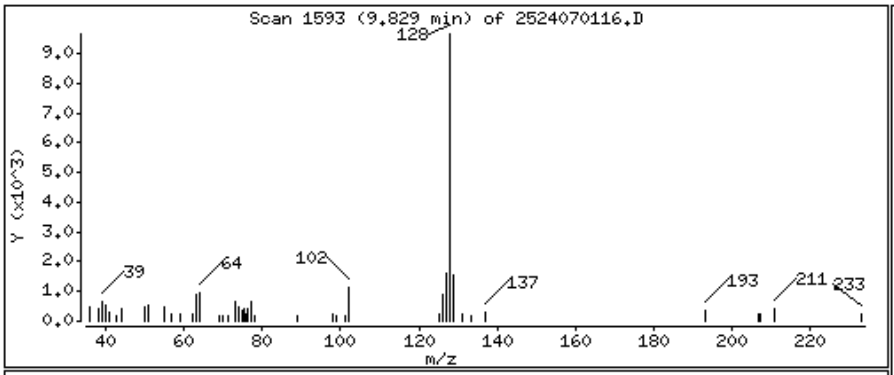
Client ID: ICT12D_062024 Instrument: ms25.i

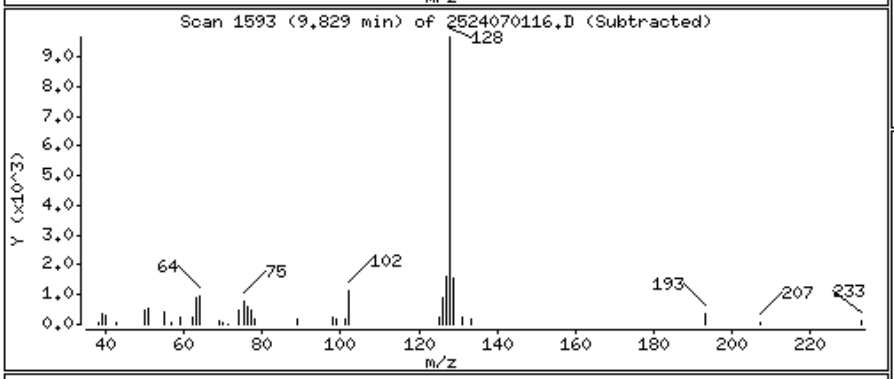
Sample Info: 3366026009;;1;;;;;

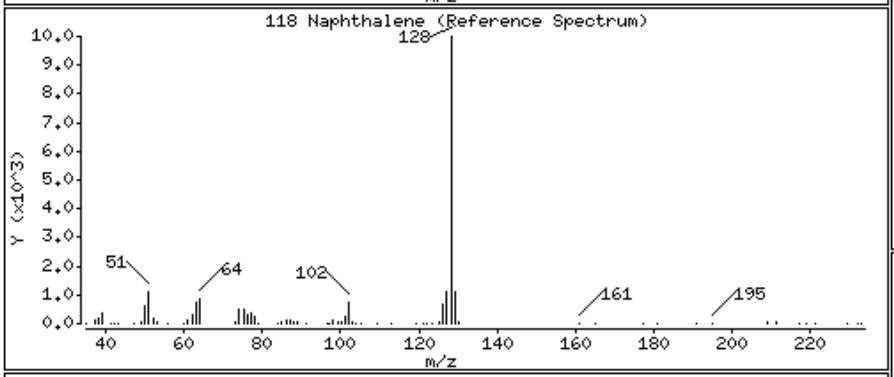
Purge Volume: 5.0 Operator: TMP

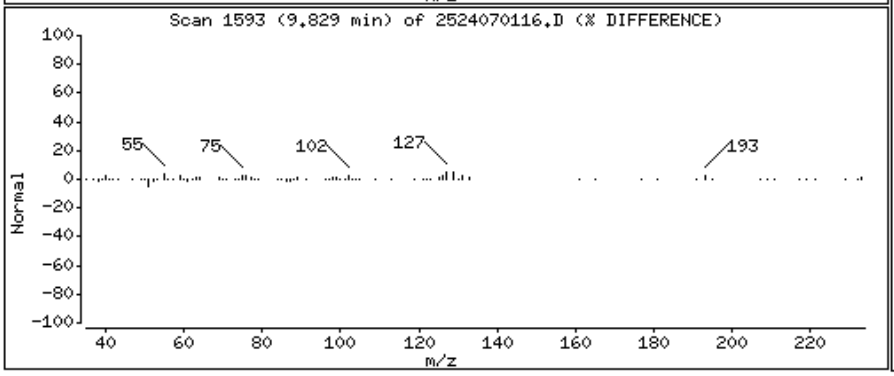
Column phase: DB-VRX Column diameter: 0.25

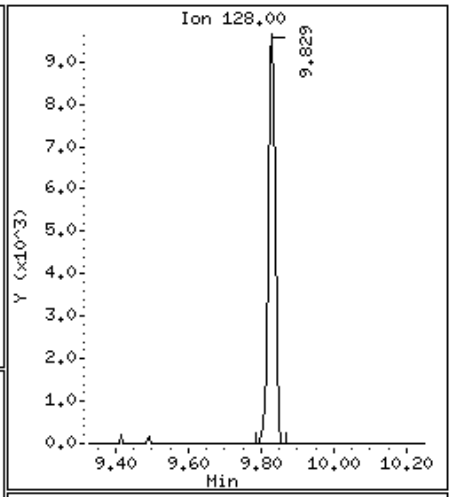
118 Naphthalene Concentration: 0.930870 ug/L

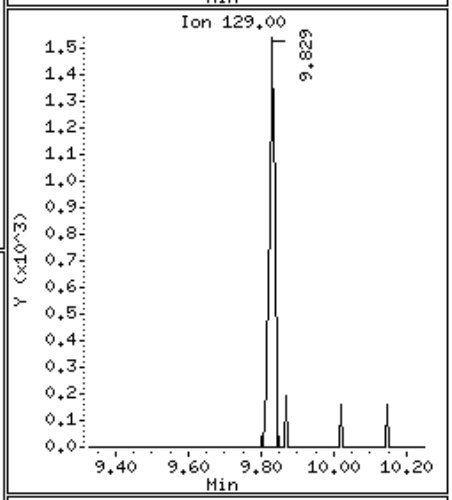


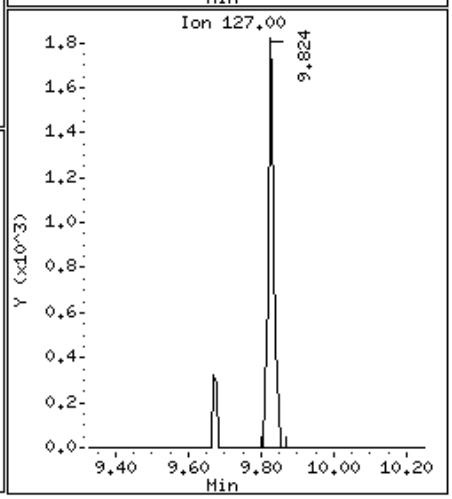












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Inj Date : 01-JUL-2024 14:59
InstruID : ms25.i
LabSampID : 3366026009

Chloroform (67-66-3)

Reason Code: H

BEFORE
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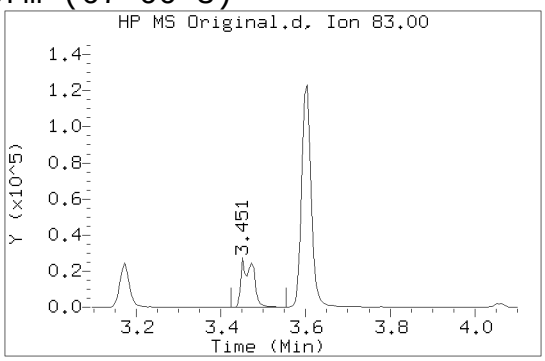
HEIGHT
27344
01-Jul-2024
18:59



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02-Jul-2024
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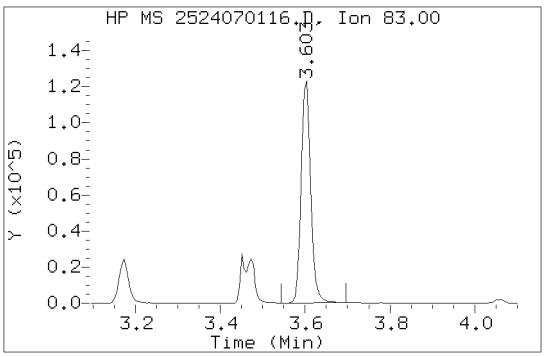

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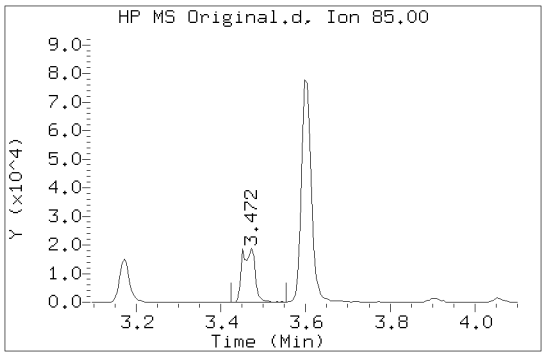

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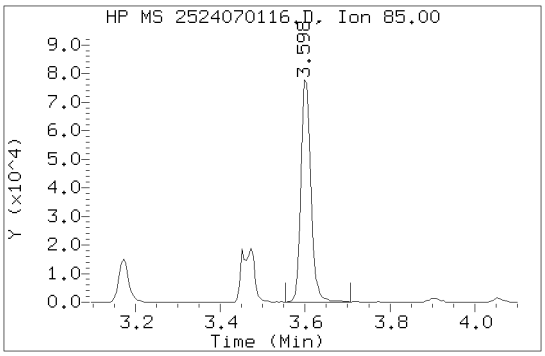

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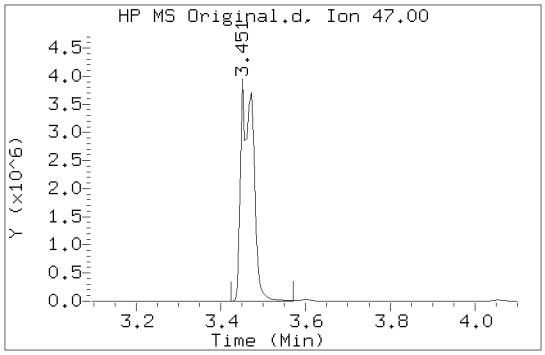

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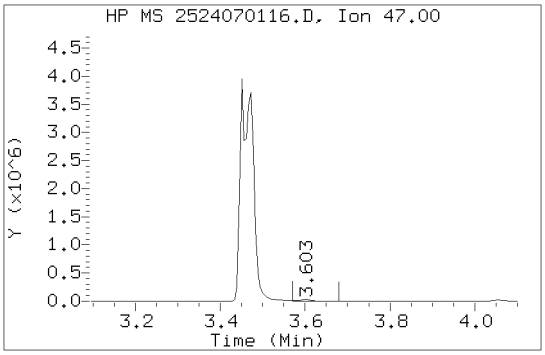

1,1-Dichloroethane (75-34-3)

Reason Code: H

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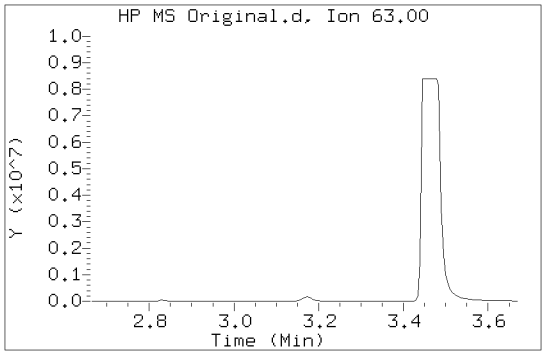

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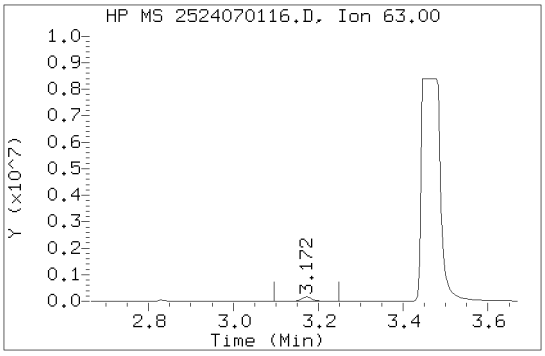

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Inj Date : 01-JUL-2024 14:59
InstruID : ms25.i
LabSampID : 3366026009

1,1-Dichloroethane (75-34-3)

Reason Code: H

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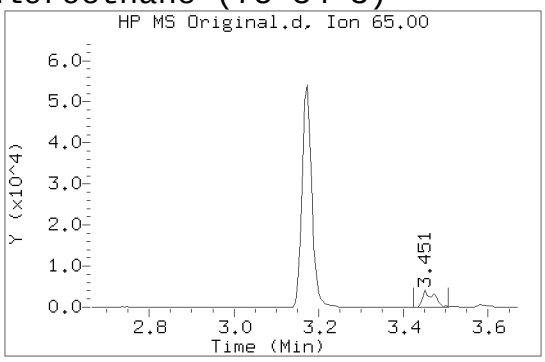

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HEIGHT
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02-Jul-2024
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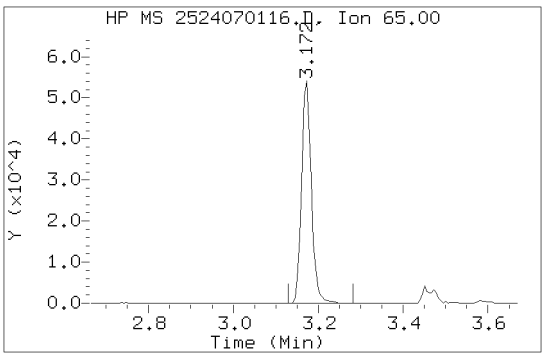

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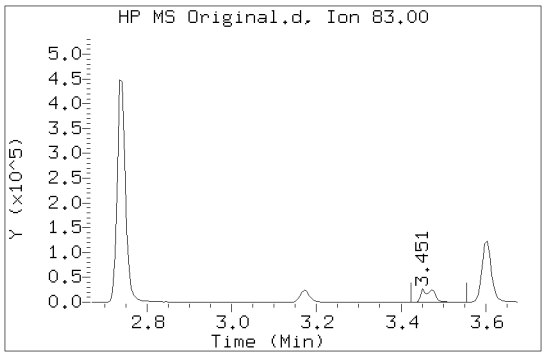

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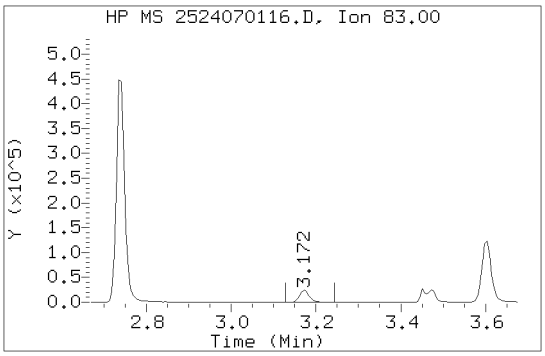

Fluorobenzene (462-06-6)

Reason Code: H

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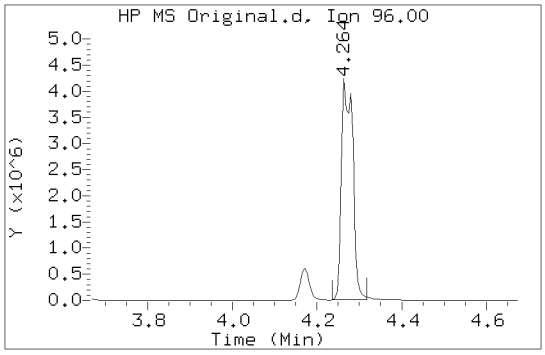

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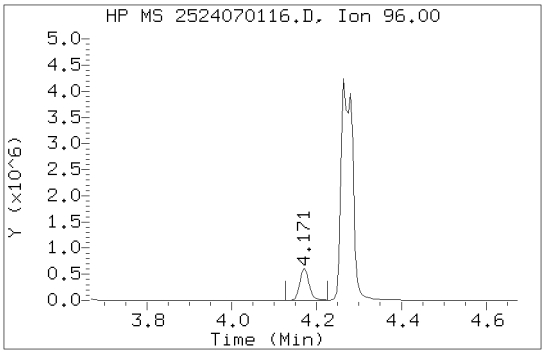

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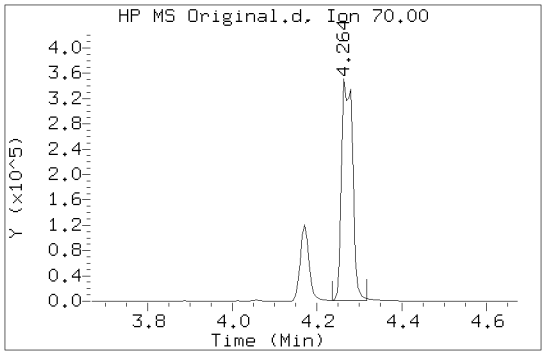

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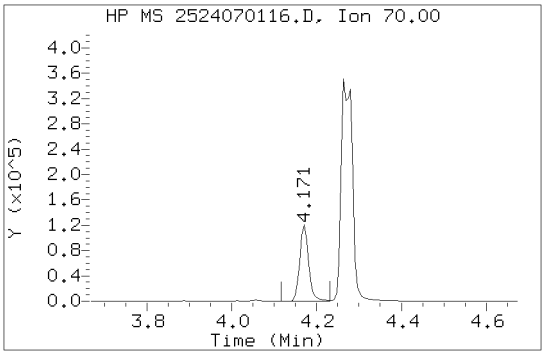

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:21
Client ID: ICT12D_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407011
Inj Date: 01-JUL-2024 14:59
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone	Acetonitrile
tert-Amyl Alcohol	tert-Amyl Ethylether
Bromodichloromethane	2-Butanone
sec-Butylbenzene	Carbon Tetrachloride
1-Chlorobutane	1-Chlorohexane
Chloromethane	1,1-Dichloro-2-propanone
1,2-Dibromoethane	1,3-Dichlorobenzene
1,4-Dichlorobenzene	Dichlorodifluoromethane
Dichlorofluoromethane	cis-1,3-Dichloropropene
trans-1,3-Dichloropropene	Ethyl Ether
Ethyl methacrylate	Ethyl tert-butyl ether
2-Hexanone	Iodomethane
Isobutyl alcohol	Methacrylonitrile
Methyl acetate	Methyl cyclohexane
2-Nitropropane	n-Propylbenzene
1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane

Data File: 2524070117.D Page 1
Report Date: 02-Jul-2024 13:22

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D
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Inj Date : 01-JUL-2024 15:19
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026010;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.400)	4727909	386.889	386.889(A)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						RT
10 1,1-Dichloroethene	61	2.413	2.413	(0.566)	2041131	217.178	217.178(A)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.413	2.424	(0.566)	22425616	3392.45	3392.45(AQ)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.741	2.741	(0.643)	11721660	1526.85	1526.85(A)	
18 Acetone	58	2.752	2.752	(0.660)	10617	12.4824	12.4824(QM)	H
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.663)	163619	17.7747	17.7747	
21 Hexane	57	Compound Not Detected.						

Data File: 2524070117.D
Report Date: 02-Jul-2024 13:22

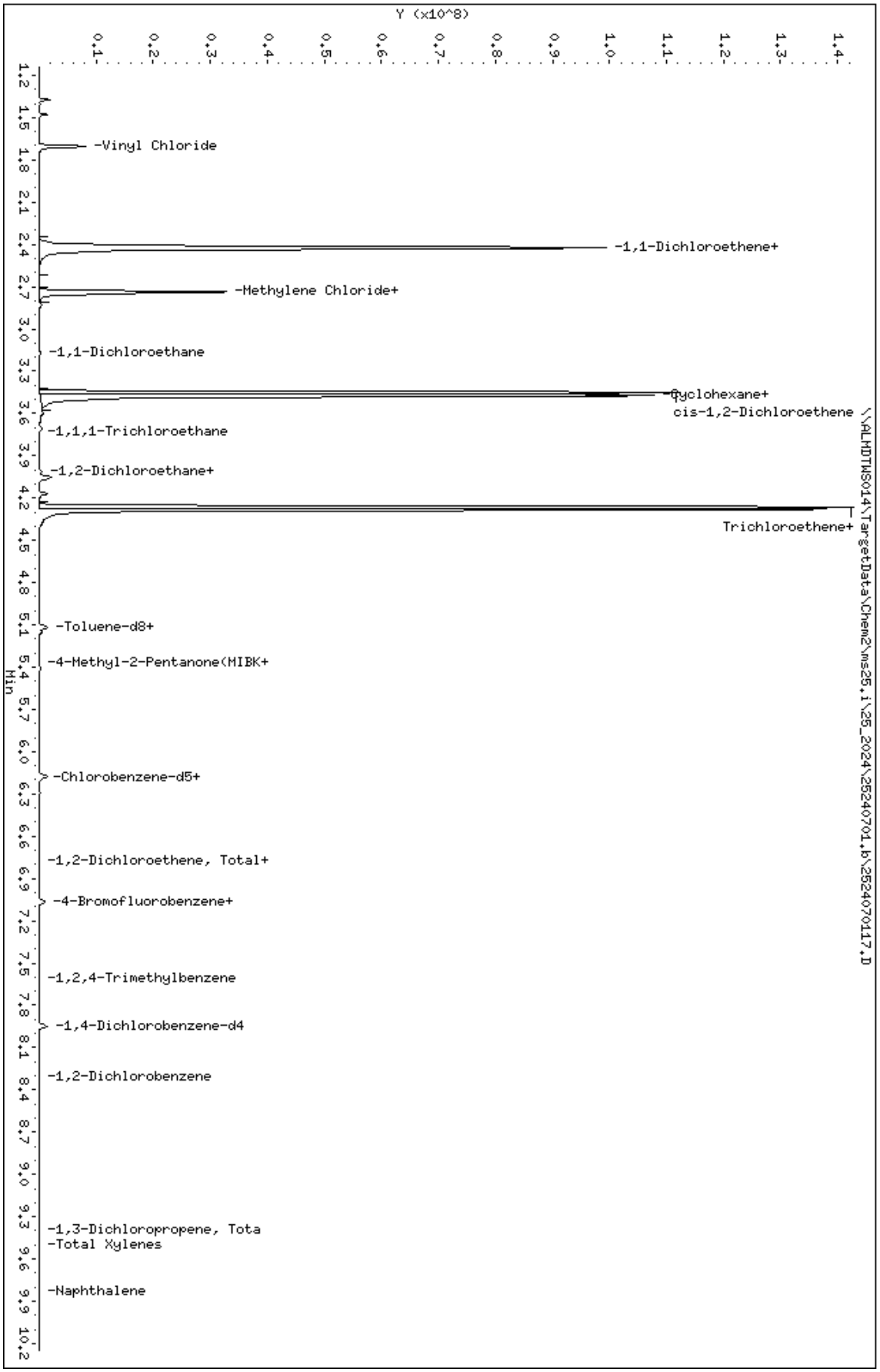
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	3.172	3.166	(0.761)	243381	19.4069	19.4069(M)	H
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						RT
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.445	3.461	(0.808)	31829524	3410.23	3410.23(AQ)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				31993143	3428.01	3428.01	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	3.592	3.586	(0.843)	50050	4.46909	4.46909	
	36 Chloroform	83	3.603	3.597	(0.864)	194389	14.3584	14.3584(M)	H
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						RT
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.869)	210824	27.3494	27.3494	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	12016	1.14029	1.14029(QM)	H
	43 2-Butanone	72	Compound Not Detected.						RT
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						RT
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	238852	29.3937	29.3937(M)	MP
	54 Isobutyl alcohol	42	Compound Not Detected.						RT
	52 1,2-Dichloroethane	62	4.056	4.056	(0.951)	1373748	142.638	142.638	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	976961	30.0000	(M)	H
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.258	4.269	(0.999)	24970269	3220.37	3220.37(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						RT
	59 tert-Amyl Ethylether	59	Compound Not Detected.						RT
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						RT
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	869106	29.2773	29.2773	
	69 Toluene	92	5.152	5.152	(0.835)	134481	7.14748	7.14748	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						RT
	73 4-Methyl-2-Pentanone(MIBK)	43	5.376	5.371	(0.871)	8872	2.19892	2.19892(a)	
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						RT
	74 Tetrachloroethene	164	5.414	5.409	(0.877)	64923	9.47607	9.47607	
	76 Ethyl methacrylate	69	Compound Not Detected.						RT

Data File: 2524070117.D Page 3
Report Date: 02-Jul-2024 13:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	14231	2.46174	2.46174	
78	Chlorodibromomethane	129	Compound Not Detected.						
79	1,3-Dichloropropane	76	Compound Not Detected.						
80	1,2-Dibromoethane	107	Compound Not Detected.						
81	2-Hexanone	43	Compound Not Detected.						RT
82	1-Chlorohexane	91	Compound Not Detected.						RT
* 83	Chlorobenzene-d5	82	6.173	6.173	(1.000)	374944	30.0000		
85	Ethylbenzene	106	6.189	6.189	(1.003)	114279	10.0868	10.0868	
84	Chlorobenzene	112	Compound Not Detected.						
86	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						RT
87	mp-Xylene	106	6.287	6.287	(1.019)	38868	2.15067	2.15067	
M 120	1,3-Dichloropropene, Total	75	Compound Not Detected.						
88	o-Xylene	106	6.609	6.609	(1.071)	22040	1.72731	1.72731	
89	Styrene	104	6.647	6.648	(0.836)	7077	0.65747	0.657472(a)	
90	Bromoform	173	Compound Not Detected.						
91	Isopropylbenzene	105	6.838	6.839	(0.860)	6176	0.36613	0.366132(a)	
$ 92	4-Bromofluorobenzene	174	7.068	7.068	(0.889)	267902	29.6095	29.6095	
M 121	TOTAL XYLENES	106				60908	3.87798	3.87798	
94	n-Propylbenzene	120	Compound Not Detected.						RT
93	Bromobenzene	156	Compound Not Detected.						
95	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
97	1,3,5-Trimethylbenzene	105	7.302	7.302	(0.918)	8988	0.40843	0.408432(a)	
96	o-Chlorotoluene	91	Compound Not Detected.						
98	1,2,3-Trichloropropane	110	Compound Not Detected.						
99	trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
101	p-Chlorotoluene	91	Compound Not Detected.						
102	tert-Butylbenzene	134	Compound Not Detected.						
103	Pentachloroethane	117	Compound Not Detected.						
104	1,2,4-Trimethylbenzene	105	7.613	7.613	(0.957)	26600	0.99265	0.992654(a)	
105	sec-Butylbenzene	105	Compound Not Detected.						RT
106	p-Isopropyltoluene	134	Compound Not Detected.						
107	1,3-Dichlorobenzene	146	Compound Not Detected.						RT
* 108	1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	327053	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	Compound Not Detected.						RT
111	n-Butylbenzene	134	Compound Not Detected.						
110	Benzyl Chloride	126	Compound Not Detected.						
112	Hexachloroethane	117	Compound Not Detected.						
113	1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	5744	0.46288	0.462883(a)	
114	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
115	Nitrobenzene	77	Compound Not Detected.						
116	Hexachlorobutadiene	225	Compound Not Detected.						
117	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
118	Naphthalene	128	9.829	9.829	(1.236)	13901	0.89206	0.892057(a)	
119	1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 2

Date : 01-JUL-2024 15:19

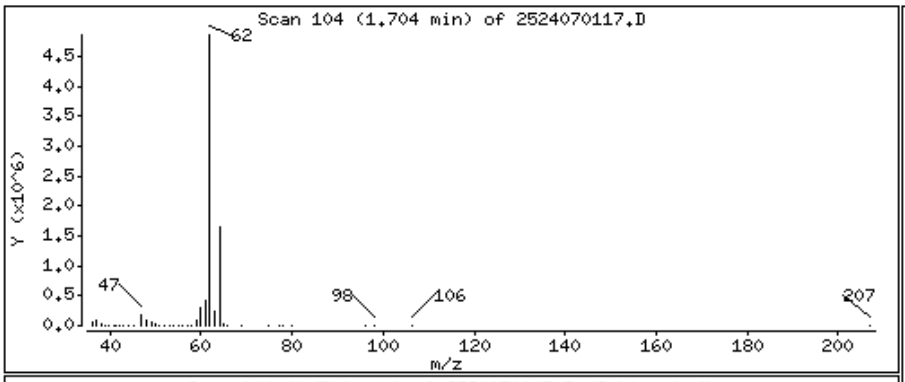
Client ID: ICT12D_062024_a Instrument: ms25.i

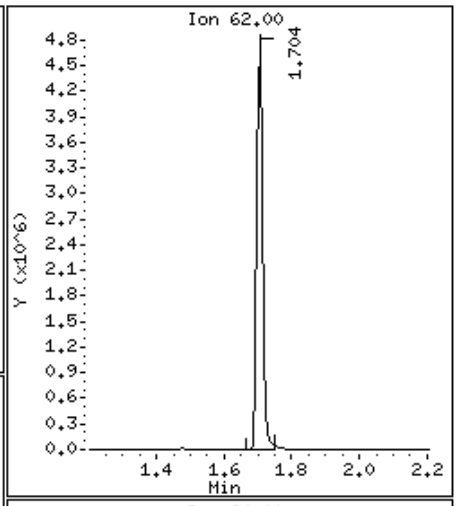
Sample Info: 3366026010;;1;;;;;

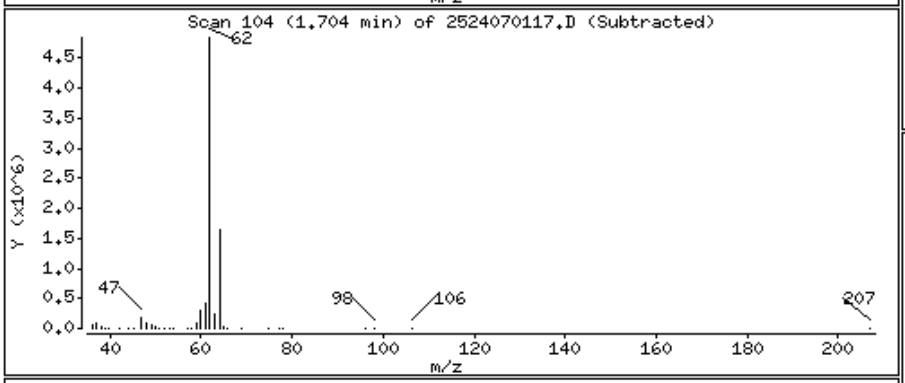
Purge Volume: 5.0 Operator: TMP

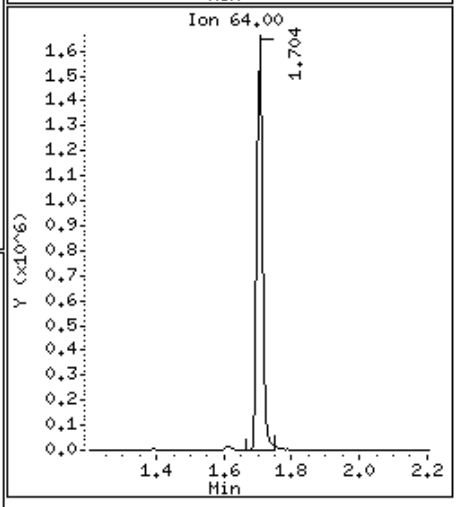
Column phase: DB-VRX Column diameter: 0.25

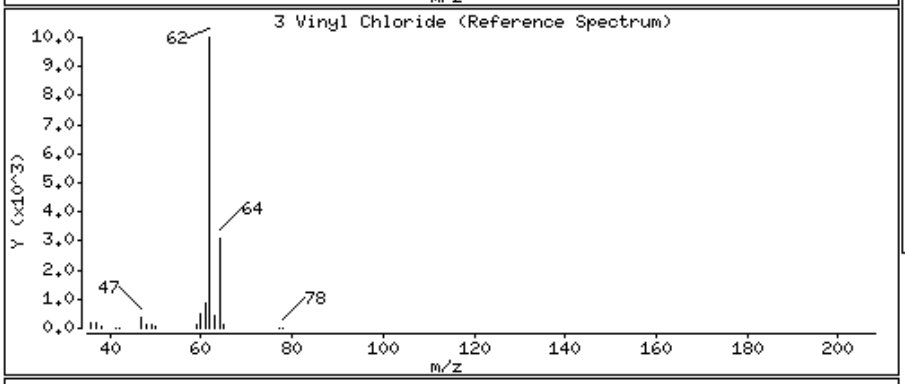
3 Vinyl Chloride Concentration: 386.889 ug/L

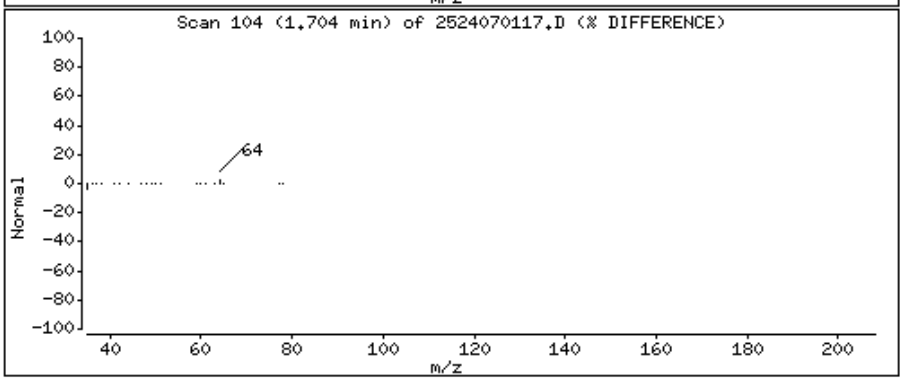












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 3

Date : 01-JUL-2024 15:19

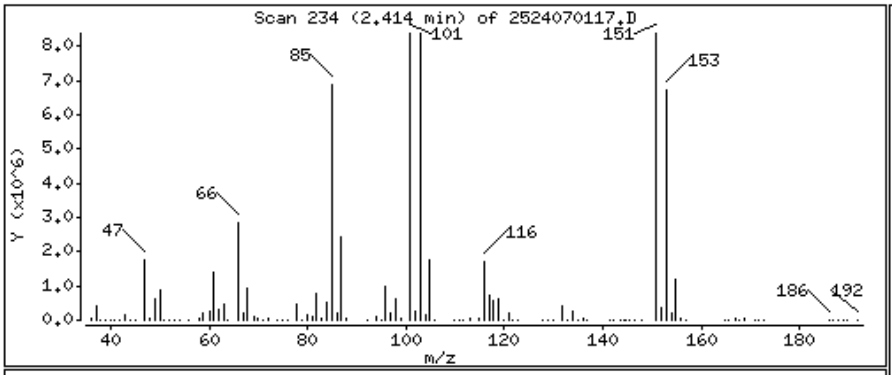
Client ID: ICT12D_062024_a Instrument: ms25.i

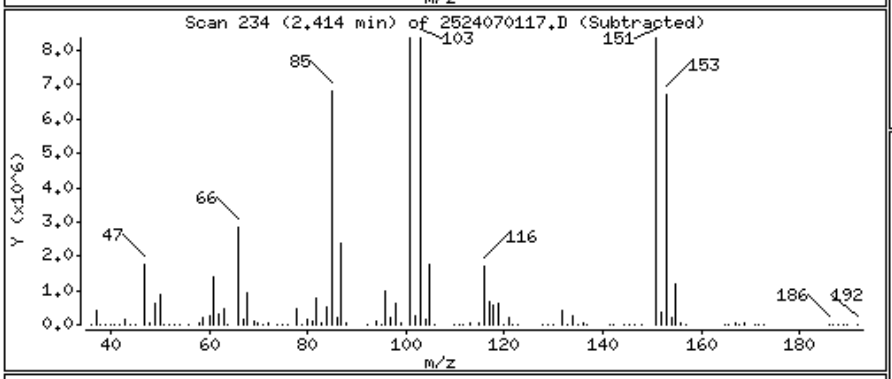
Sample Info: 3366026010;;1;;;;;

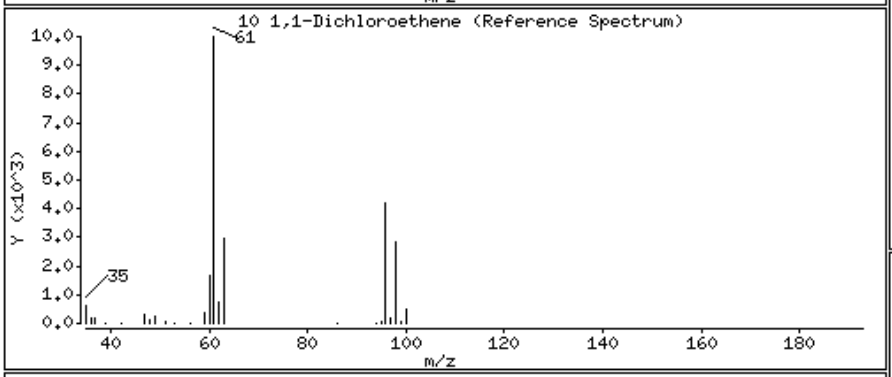
Purge Volume: 5.0 Operator: TMP

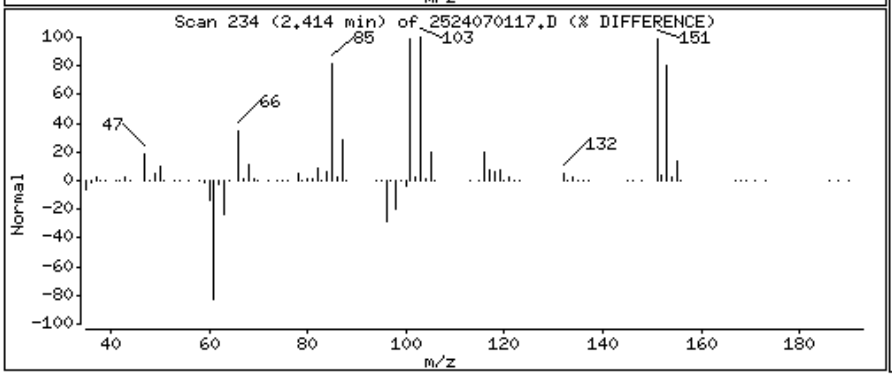
Column phase: DB-VRX Column diameter: 0.25

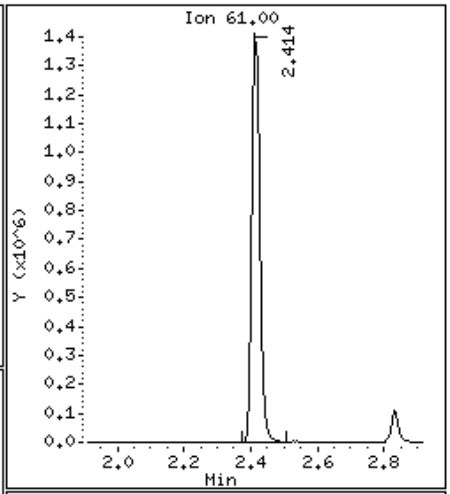
10 1,1-Dichloroethene Concentration: 217.178 ug/L

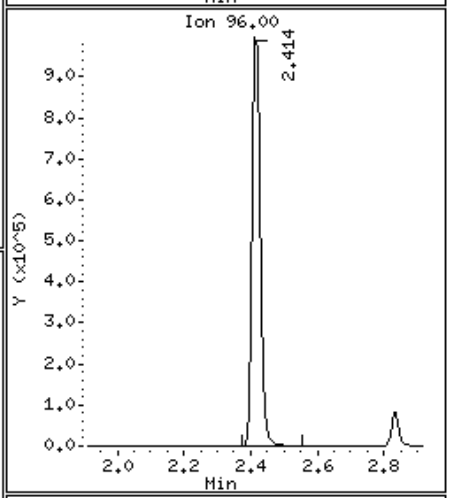


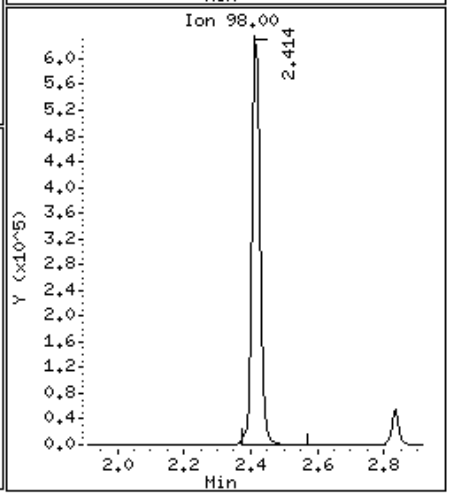












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 4

Date : 01-JUL-2024 15:19

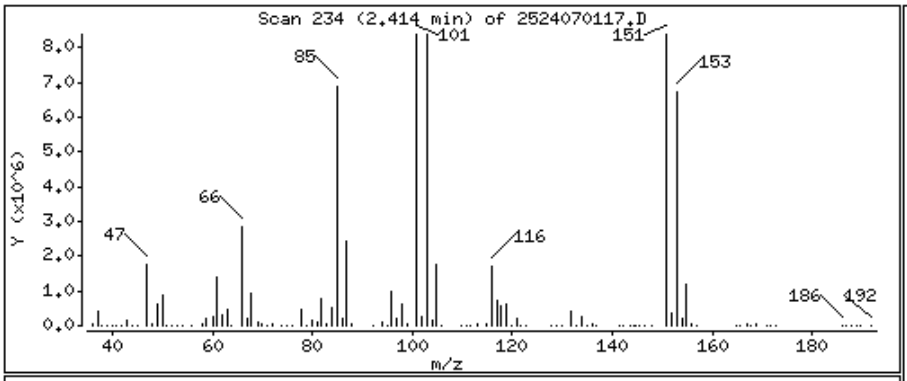
Client ID: ICT12D_062024_a Instrument: ms25.i

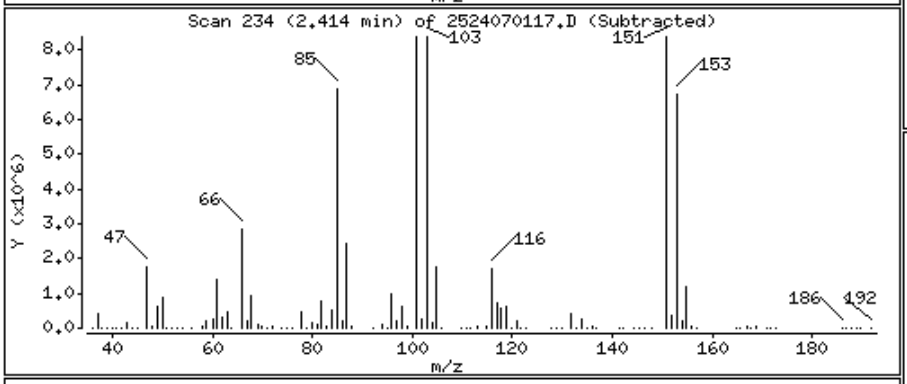
Sample Info: 3366026010;;1;;;;;

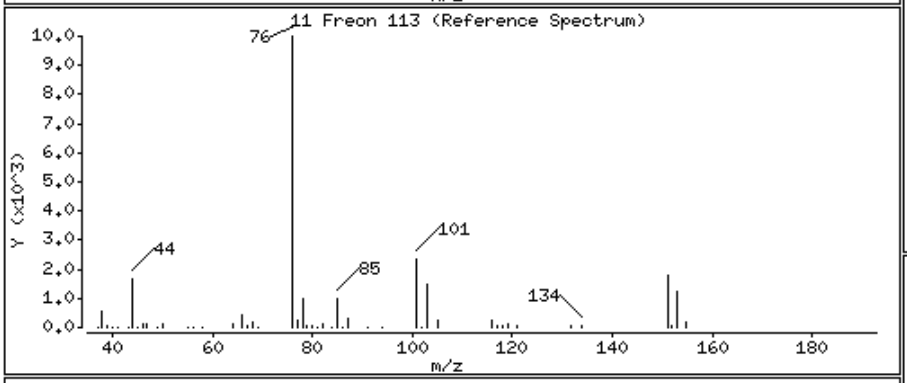
Purge Volume: 5.0 Operator: TMP

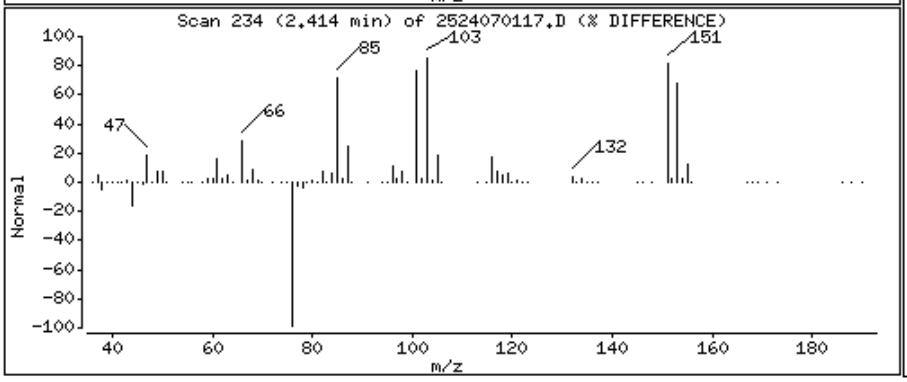
Column phase: DB-VRX Column diameter: 0.25

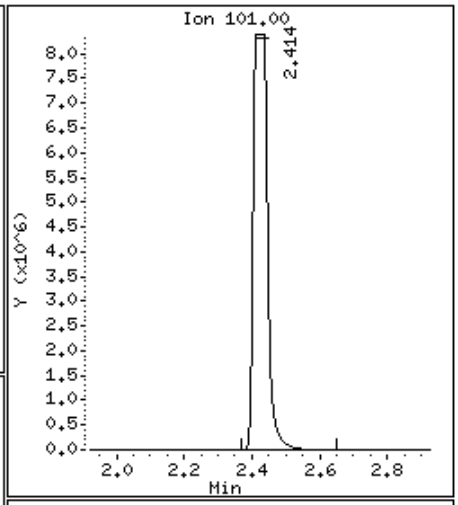
11 Freon 113 Concentration: 3392.45 ug/L

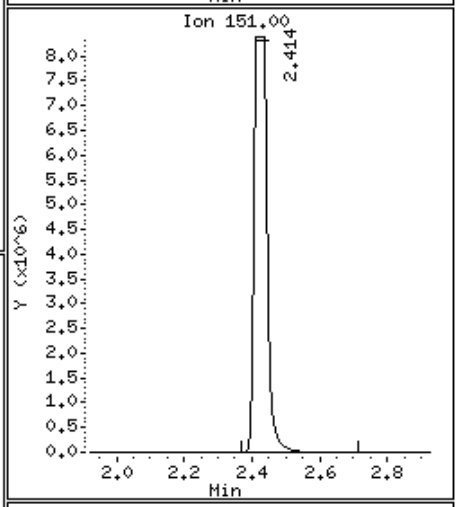


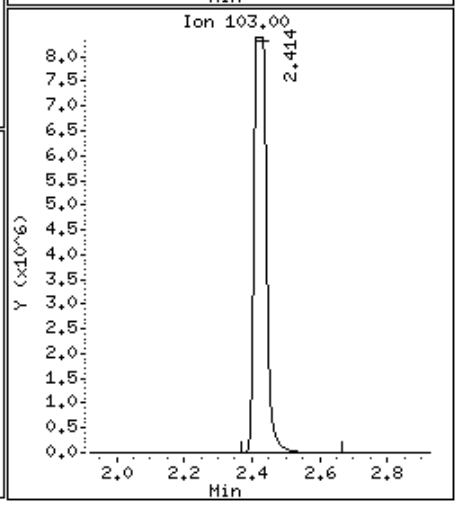












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 5

Date : 01-JUL-2024 15:19

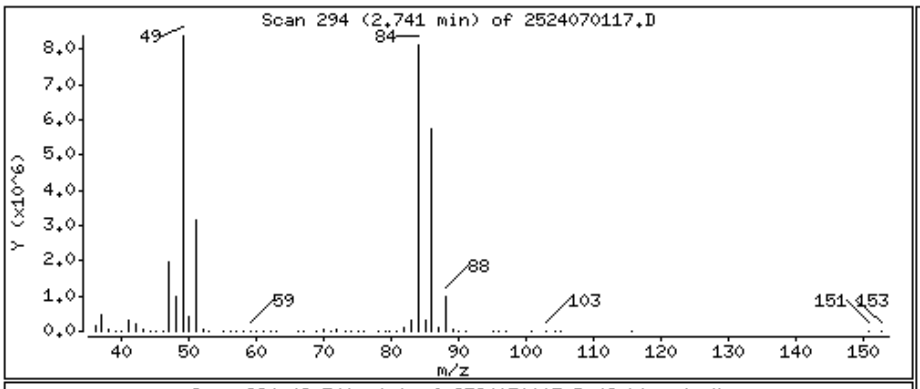
Client ID: ICT12D_062024_a Instrument: ms25.i

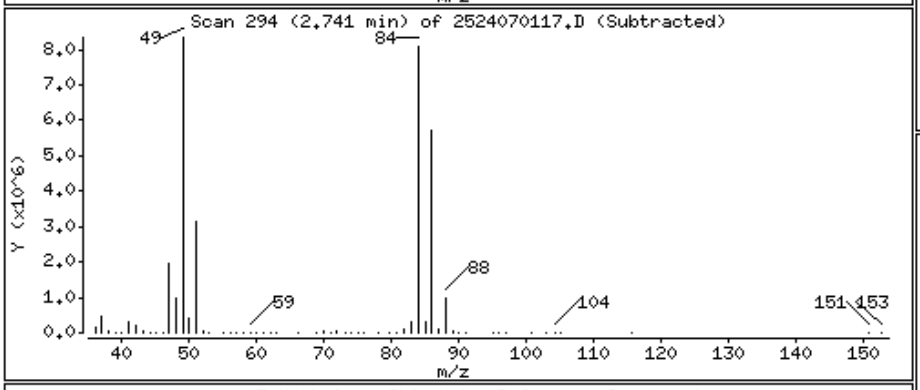
Sample Info: 3366026010;;1;;;;;

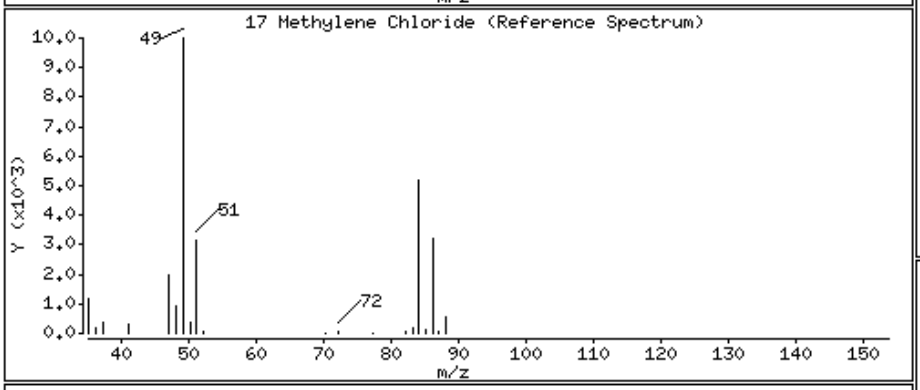
Purge Volume: 5.0 Operator: TMP

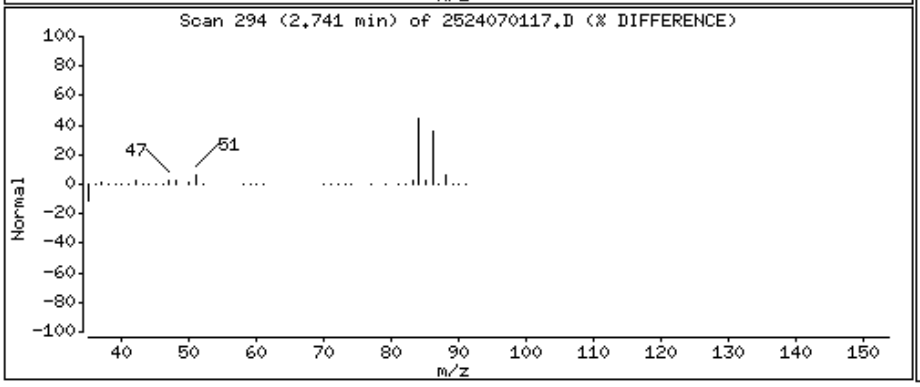
Column phase: DB-VRX Column diameter: 0.25

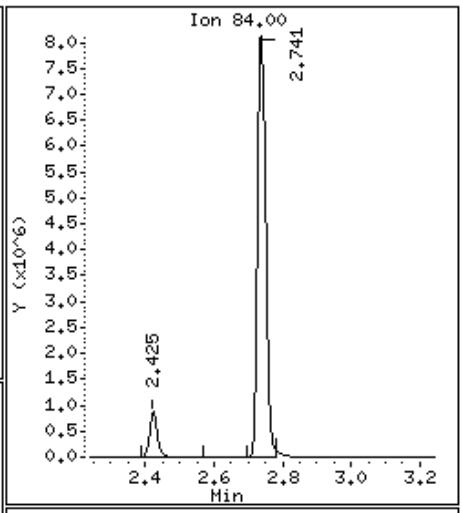
17 Methylene Chloride Concentration: 1526.85 ug/L

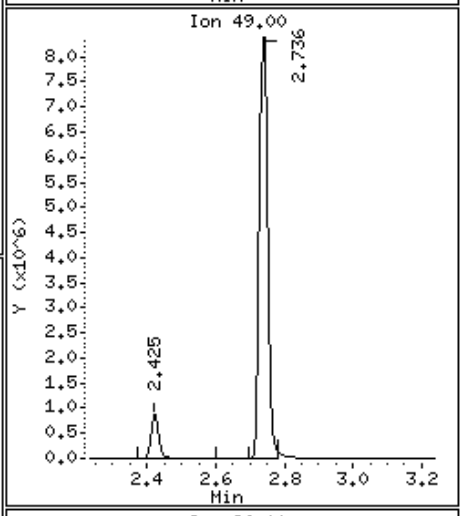


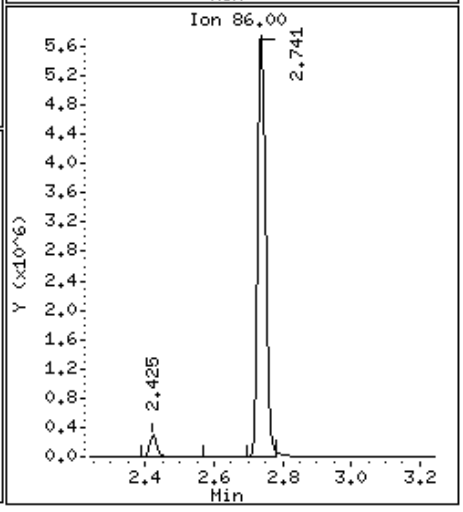












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 6

Date : 01-JUL-2024 15:19

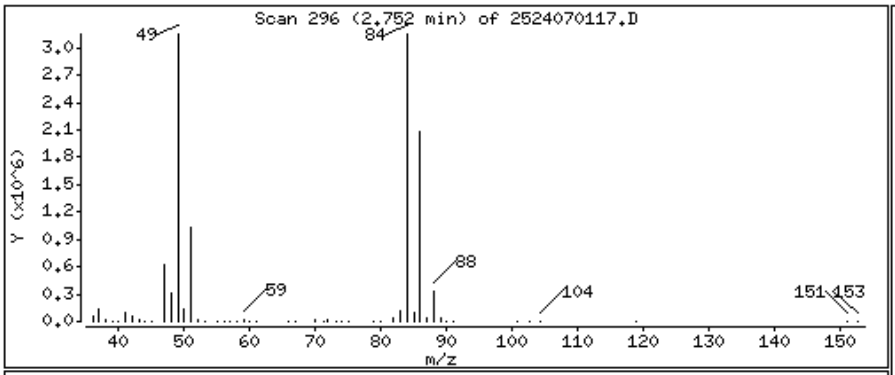
Client ID: ICT12D_062024_a Instrument: ms25.i

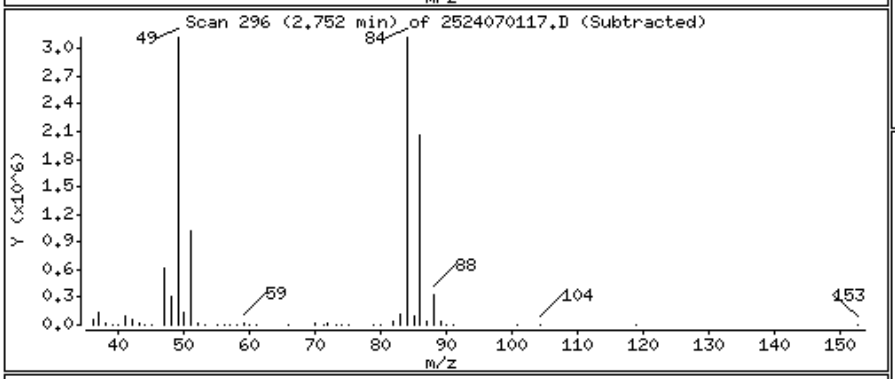
Sample Info: 3366026010;;1;;;;;

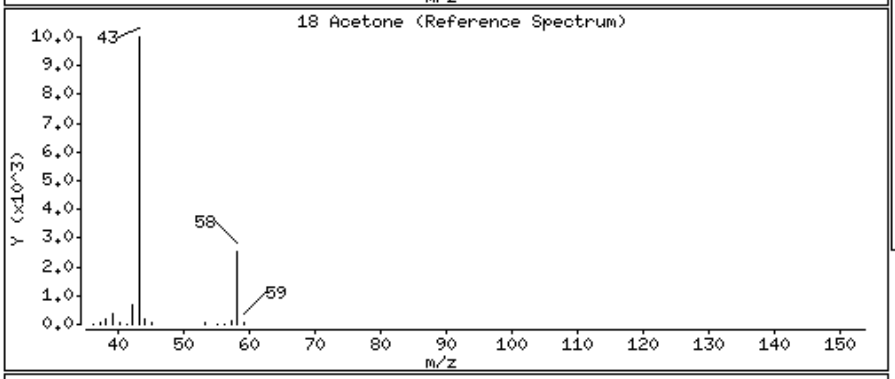
Purge Volume: 5.0 Operator: TMP

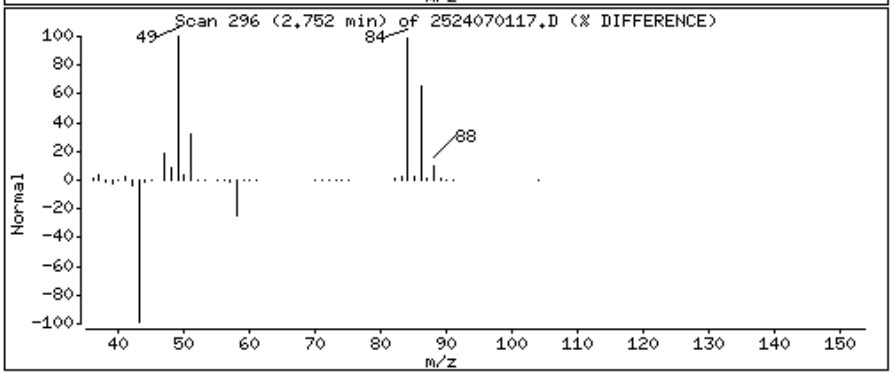
Column phase: DB-VRX Column diameter: 0.25

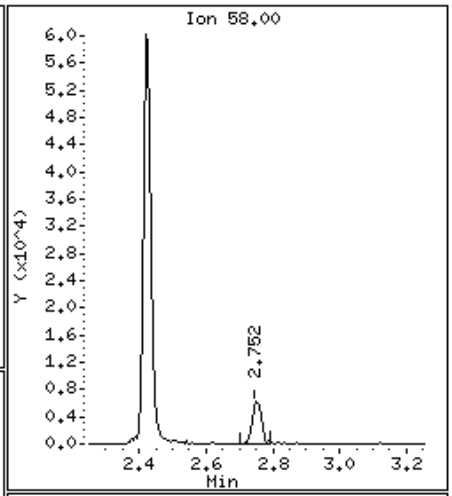
18 Acetone Concentration: 12.4824 ug/L

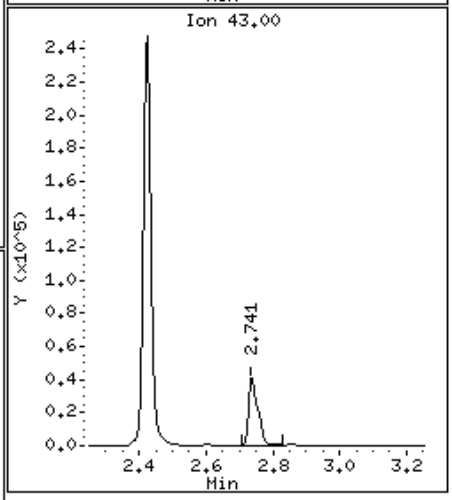












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 7

Date : 01-JUL-2024 15:19

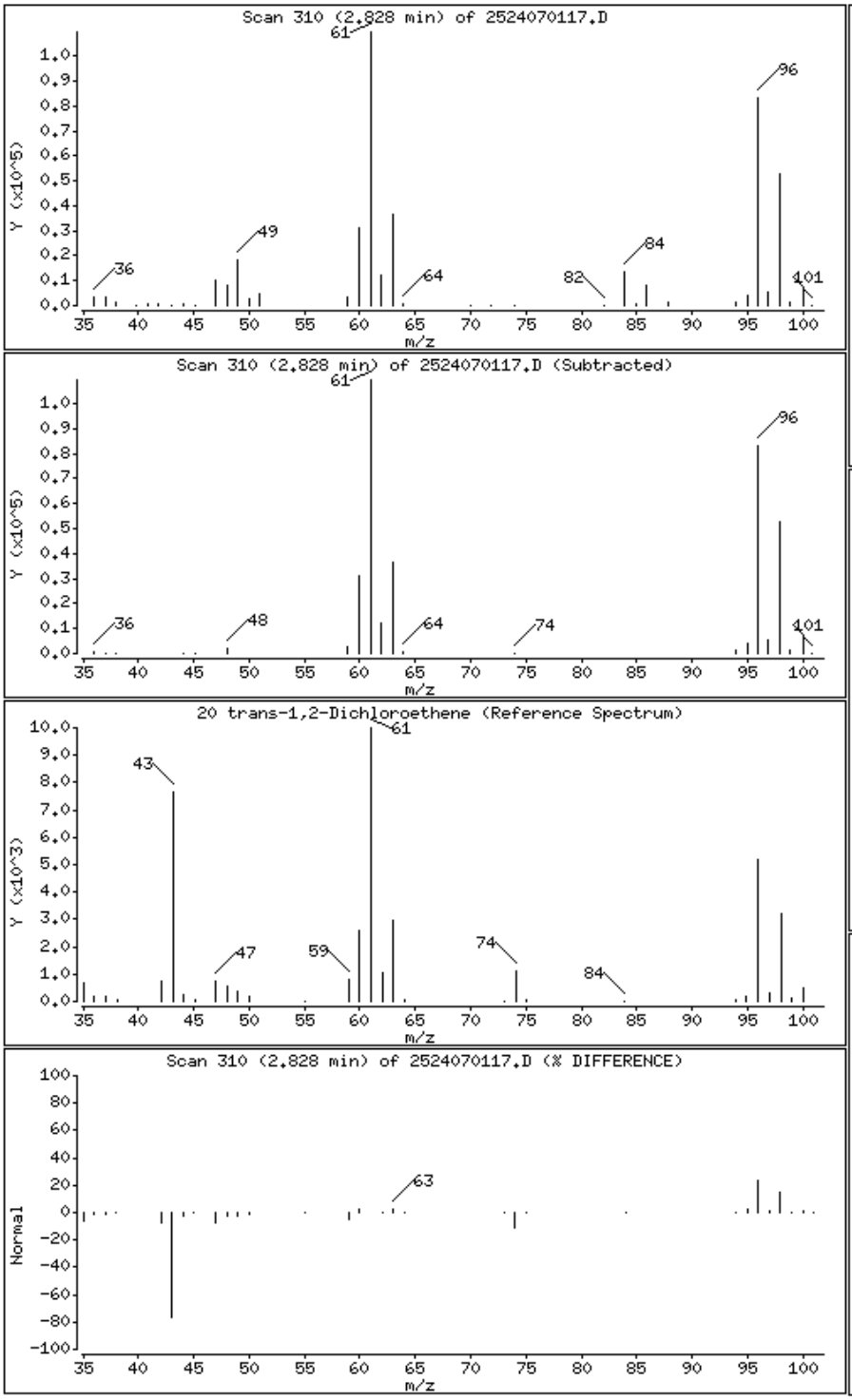
Client ID: ICT12D_062024_a Instrument: ms25.i

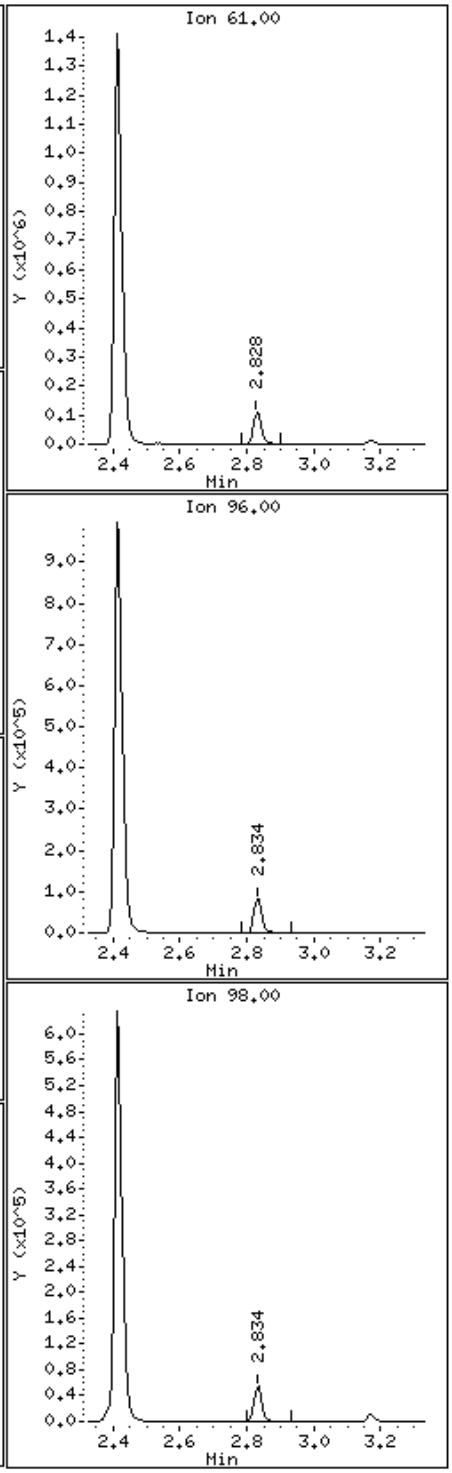
Sample Info: 3366026010;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

20 trans-1,2-Dichloroethene Concentration: 17.7747 ug/L





Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 8

Date : 01-JUL-2024 15:19

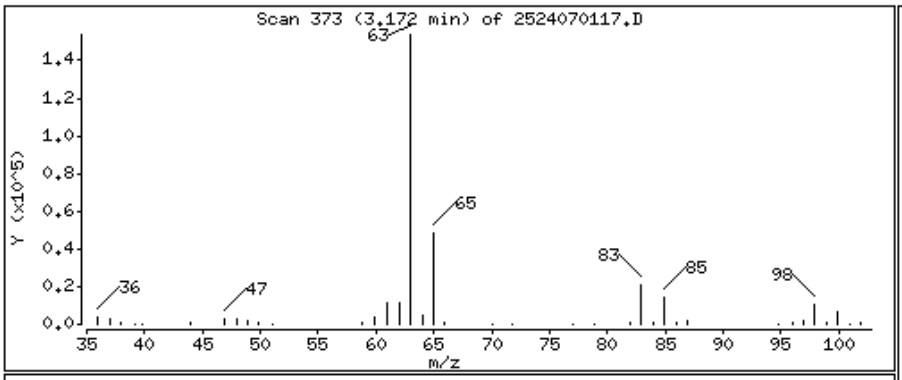
Client ID: ICT12D_062024_a Instrument: ms25.i

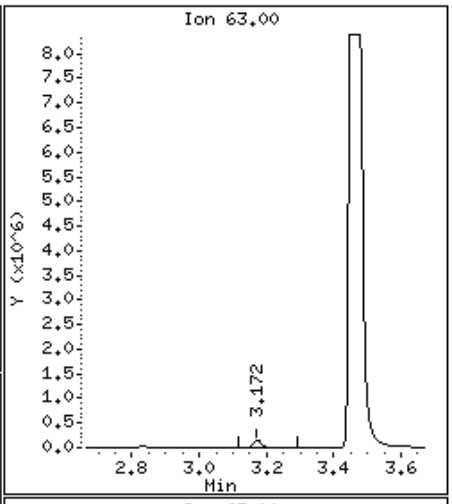
Sample Info: 3366026010;;1;;;;;

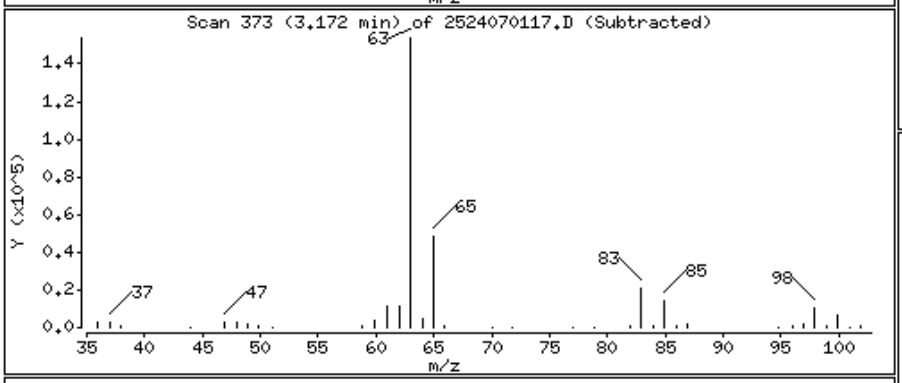
Purge Volume: 5.0 Operator: TMP

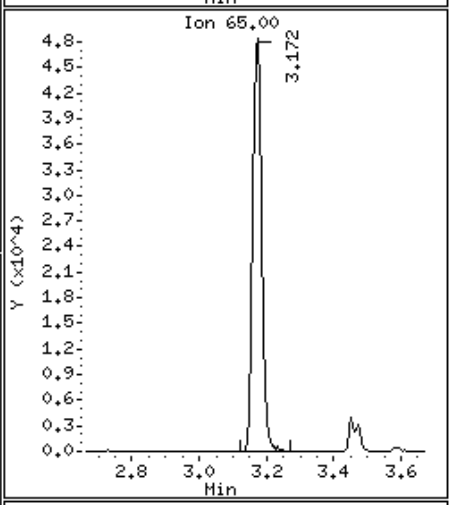
Column phase: DB-VRX Column diameter: 0.25

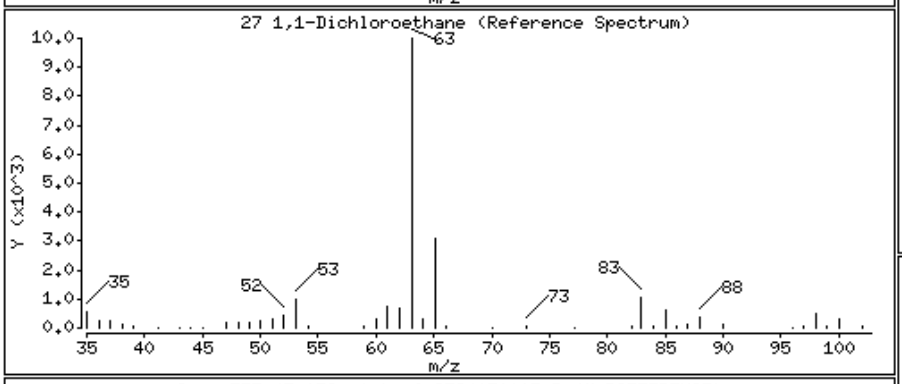
27 1,1-Dichloroethane Concentration: 19.4069 ug/L

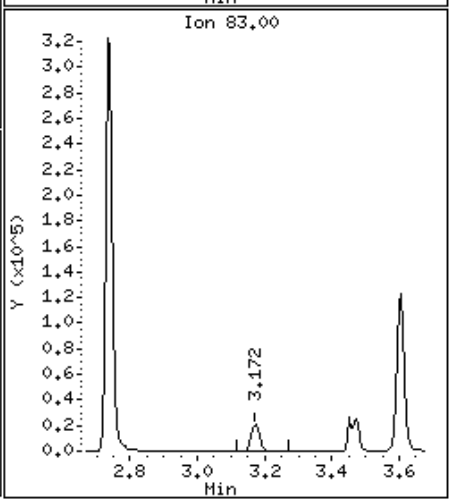


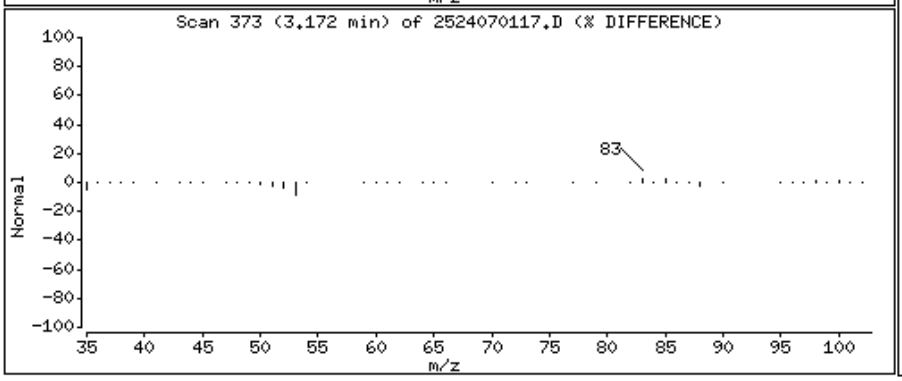












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 9

Date : 01-JUL-2024 15:19

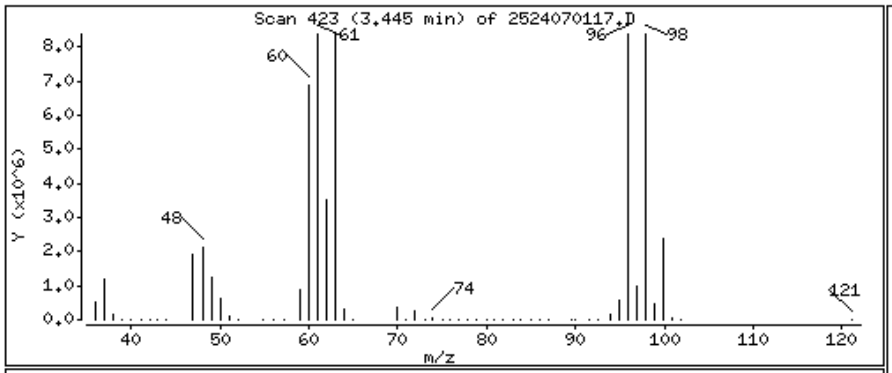
Client ID: ICT12D_062024_a Instrument: ms25.i

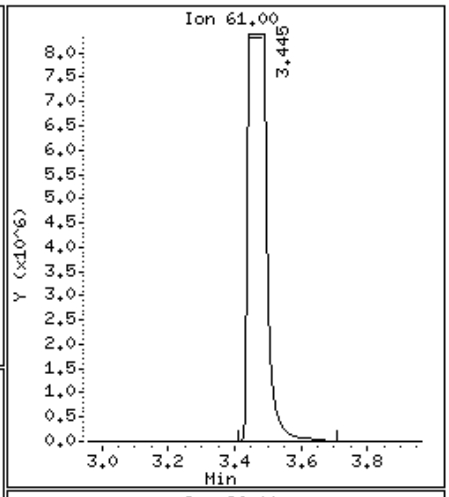
Sample Info: 3366026010;;1;;;;;

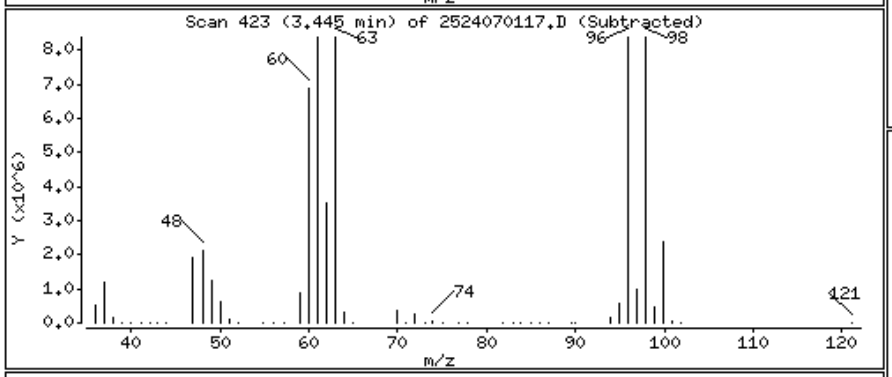
Purge Volume: 5.0 Operator: TMP

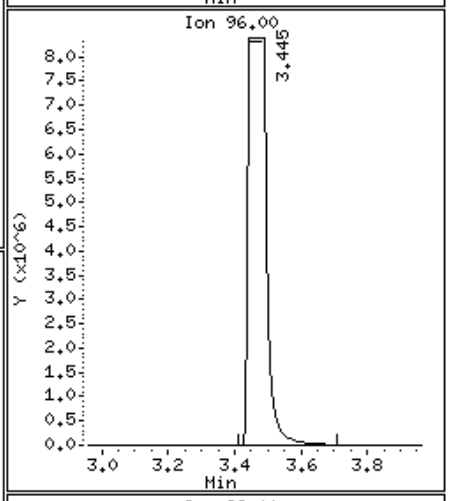
Column phase: DB-VRX Column diameter: 0.25

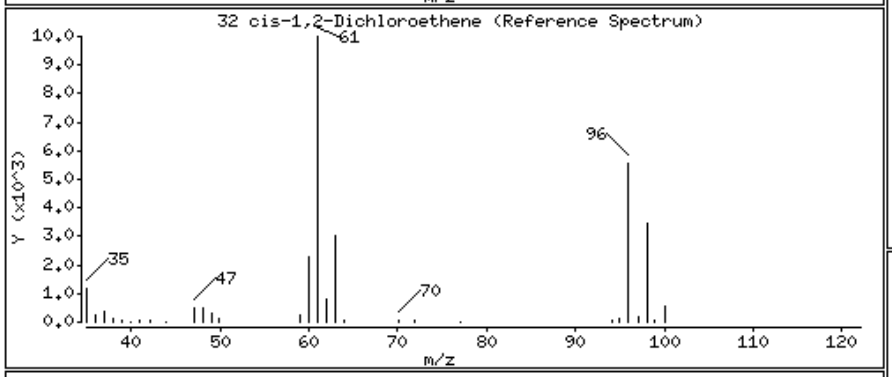
32 cis-1,2-Dichloroethene Concentration: 3410.23 ug/L

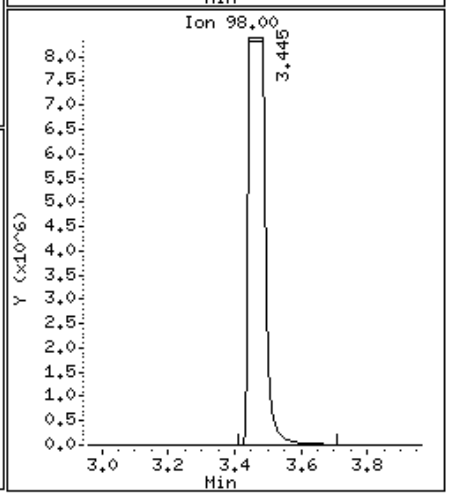


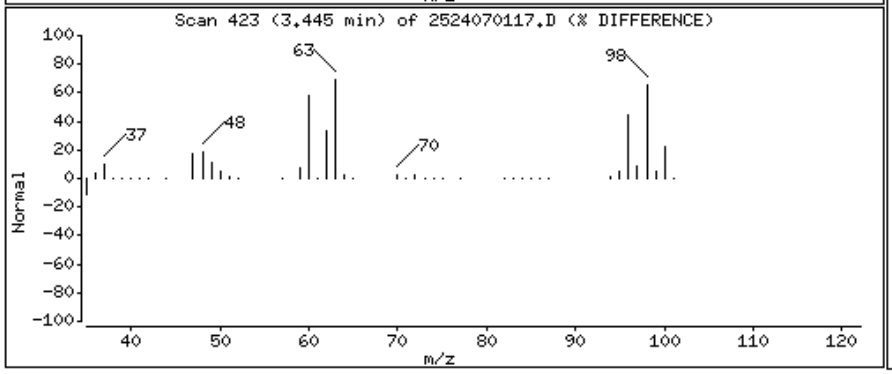












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 10

Date : 01-JUL-2024 15:19

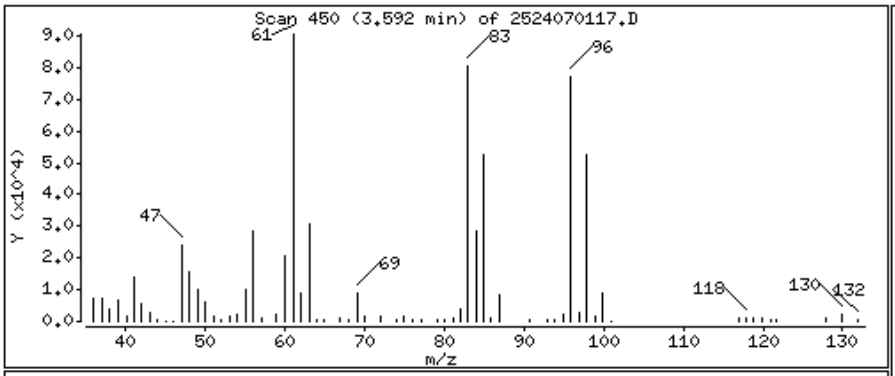
Client ID: ICT12D_062024_a Instrument: ms25.i

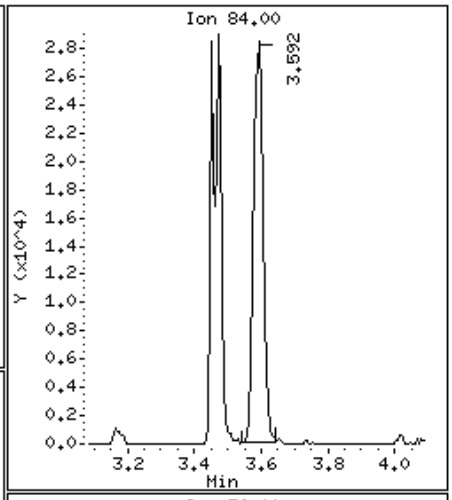
Sample Info: 3366026010;;1;;;;;

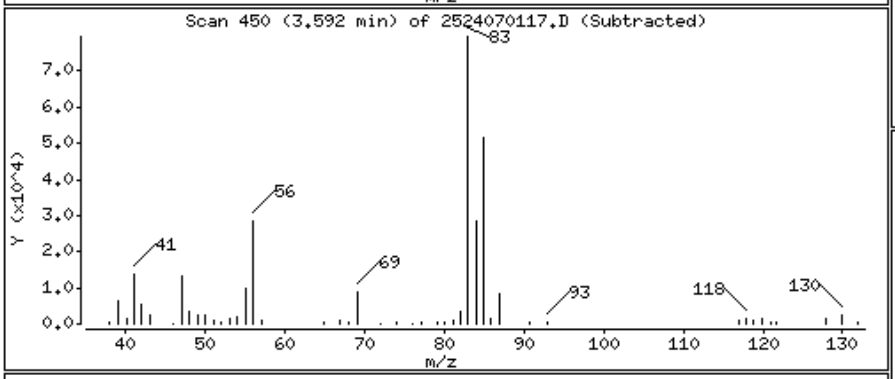
Purge Volume: 5.0 Operator: TMP

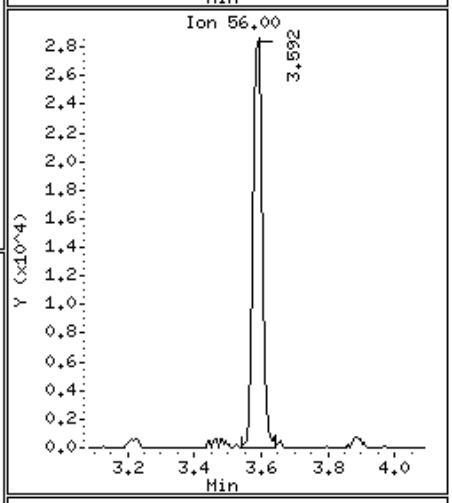
Column phase: DB-VRX Column diameter: 0.25

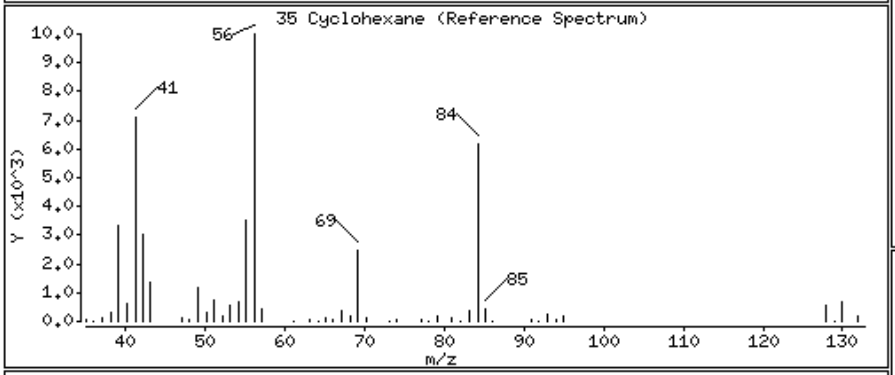
35 Cyclohexane Concentration: 4.46909 ug/L

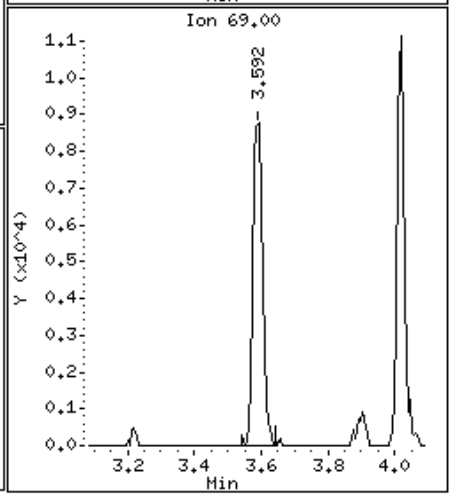


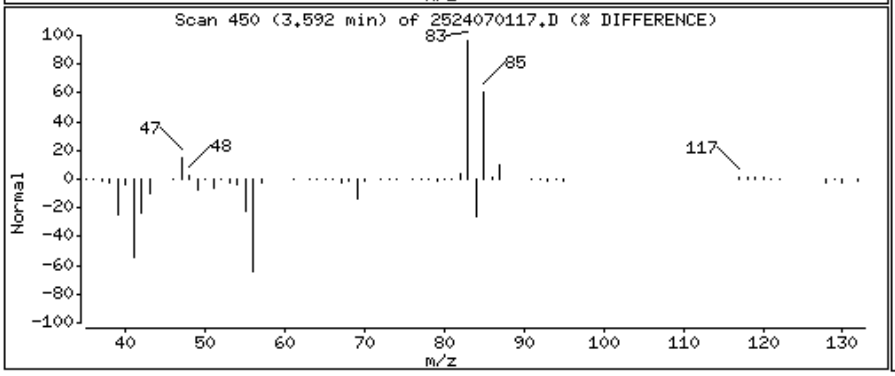












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 11

Date : 01-JUL-2024 15:19

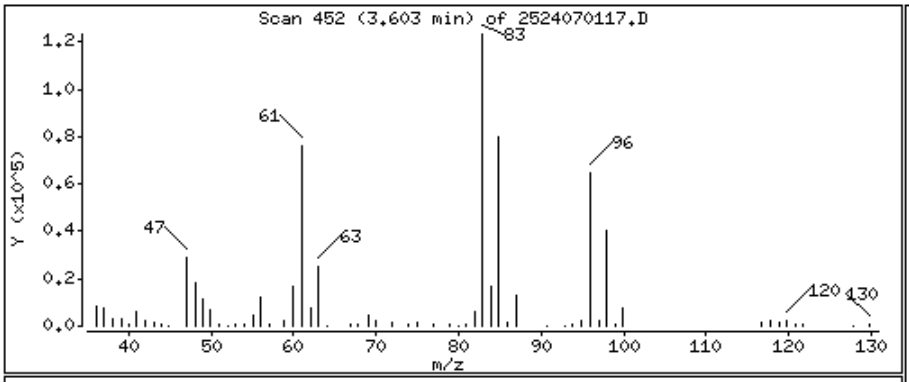
Client ID: ICT12D_062024_a Instrument: ms25.i

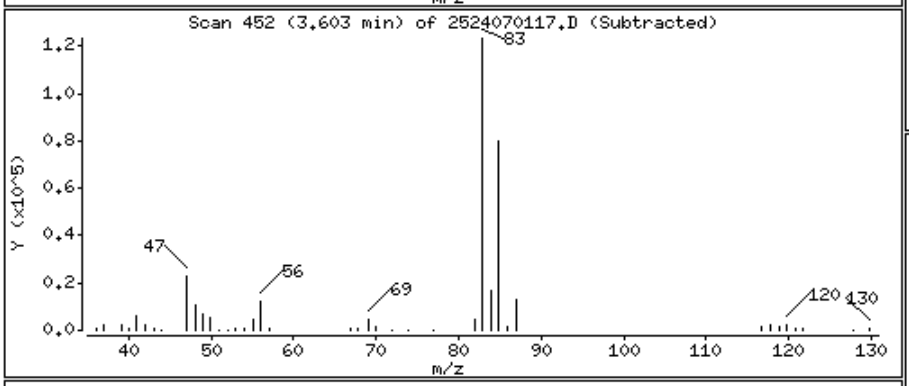
Sample Info: 3366026010;;1;;;;;

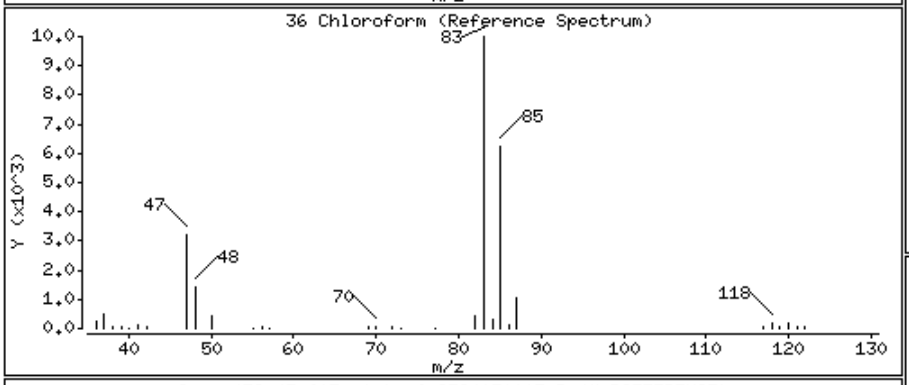
Purge Volume: 5.0 Operator: TMP

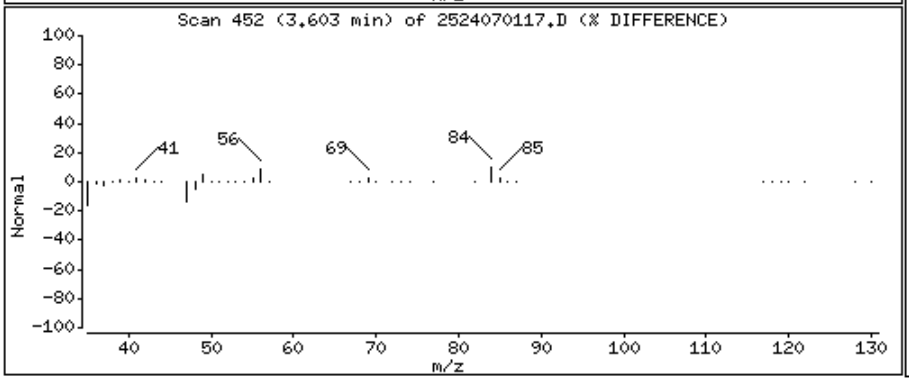
Column phase: DB-VRX Column diameter: 0.25

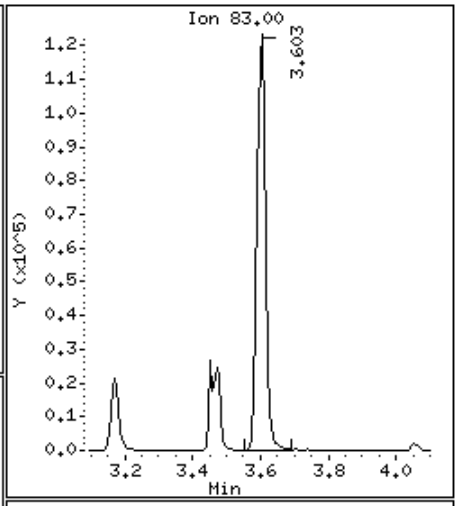
36 Chloroform Concentration: 14.3584 ug/L

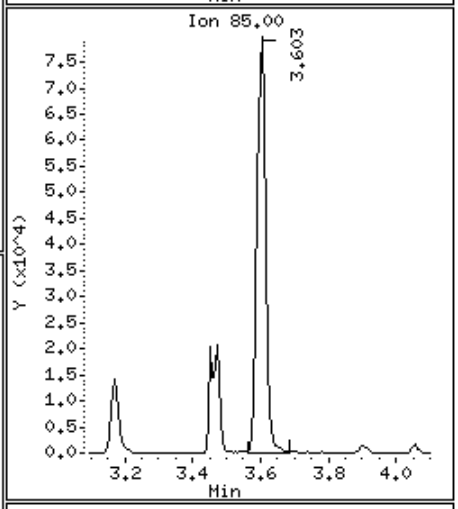


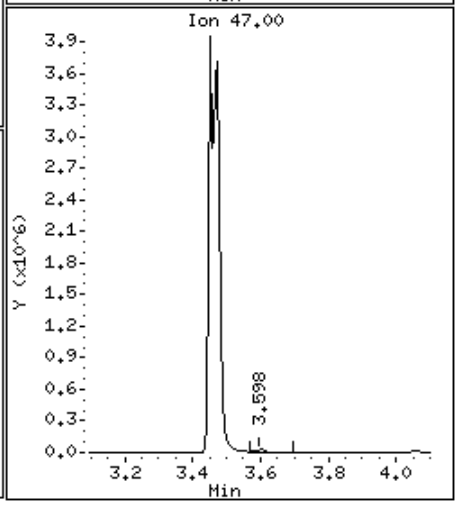












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 12

Date : 01-JUL-2024 15:19

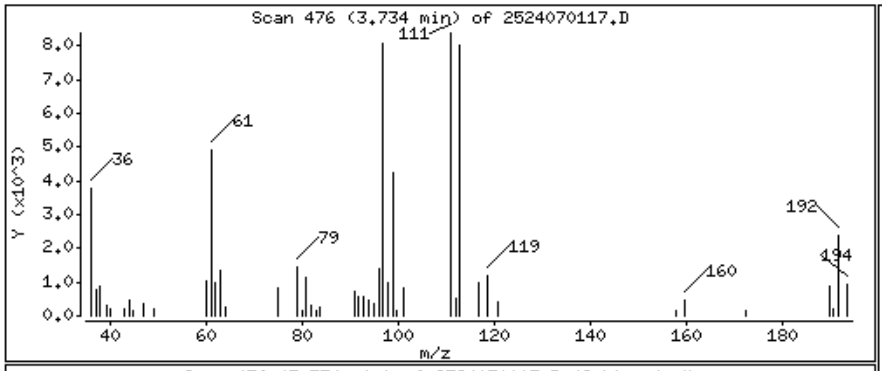
Client ID: ICT12D_062024_a Instrument: ms25.i

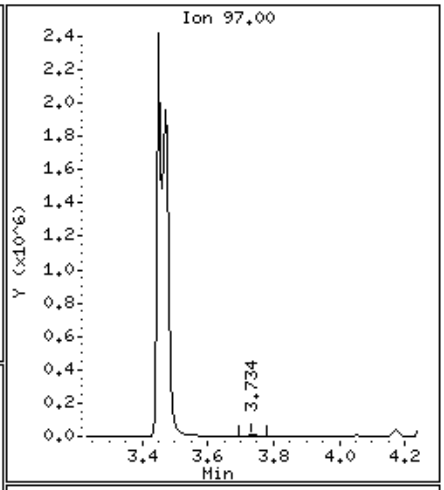
Sample Info: 3366026010;;1;;;;;

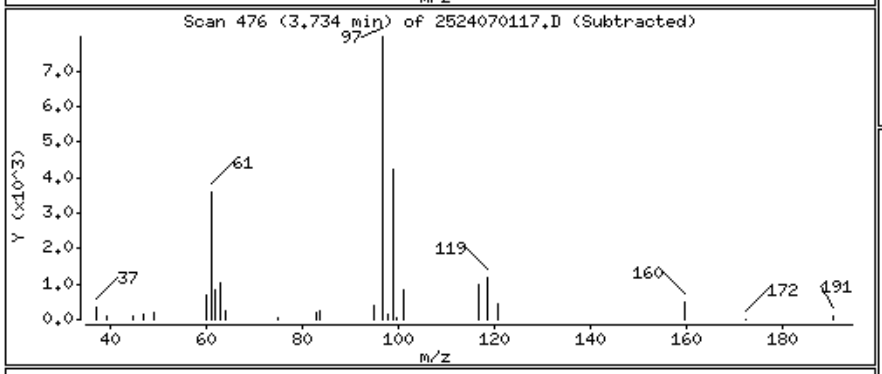
Purge Volume: 5.0 Operator: TMP

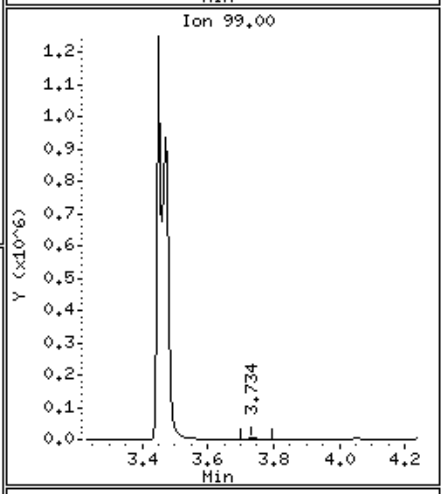
Column phase: DB-VRX Column diameter: 0.25

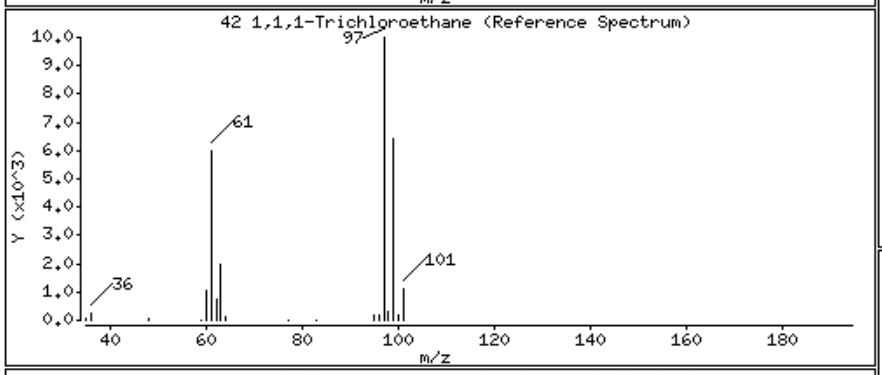
42 1,1,1-Trichloroethane Concentration: 1.14029 ug/L

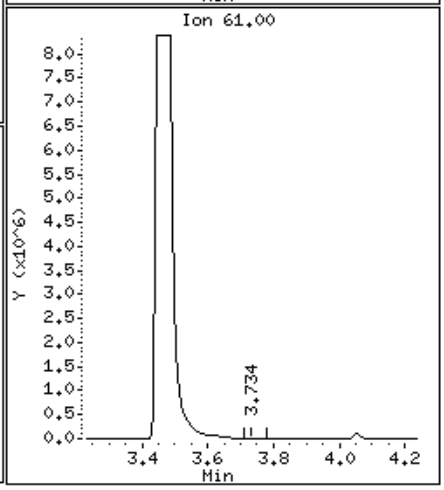


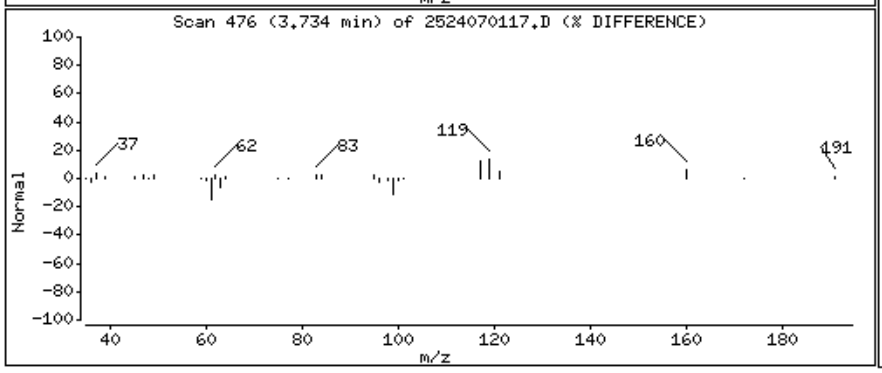












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 13

Date : 01-JUL-2024 15:19

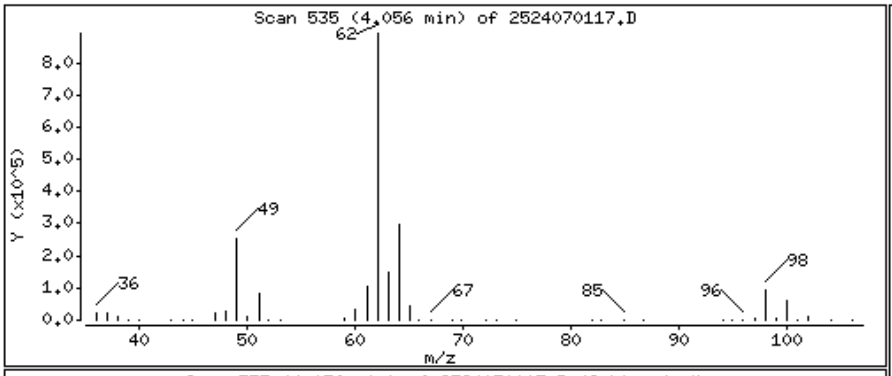
Client ID: ICT12D_062024_a Instrument: ms25.i

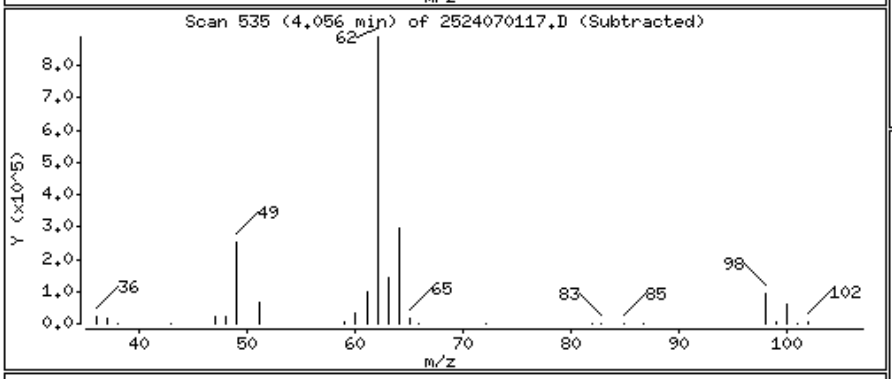
Sample Info: 3366026010;;1;;;;;

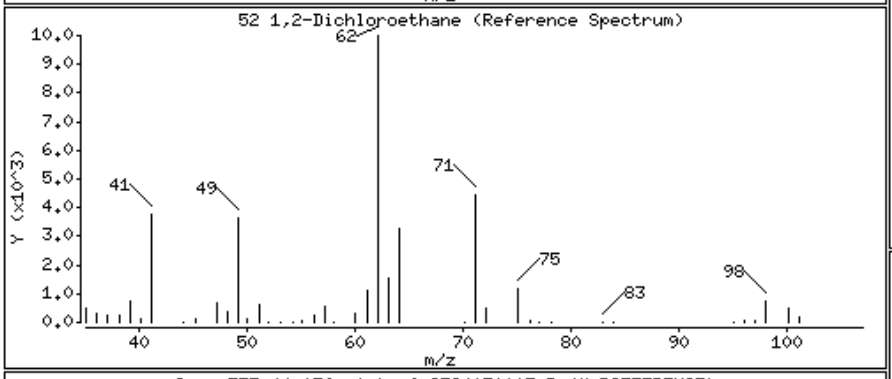
Purge Volume: 5.0 Operator: TMP

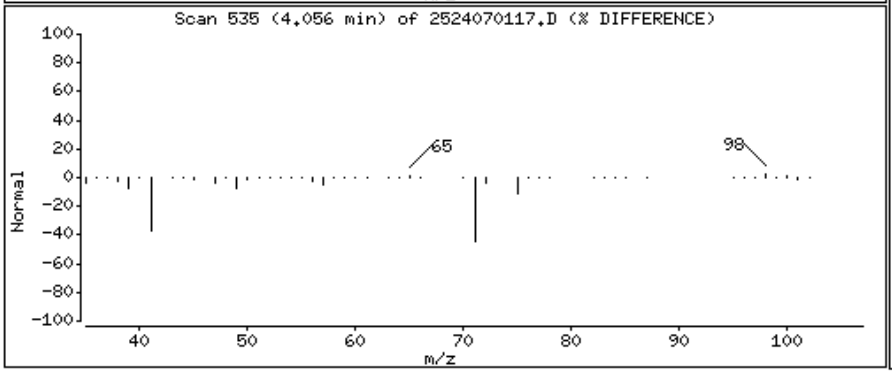
Column phase: DB-VRX Column diameter: 0.25

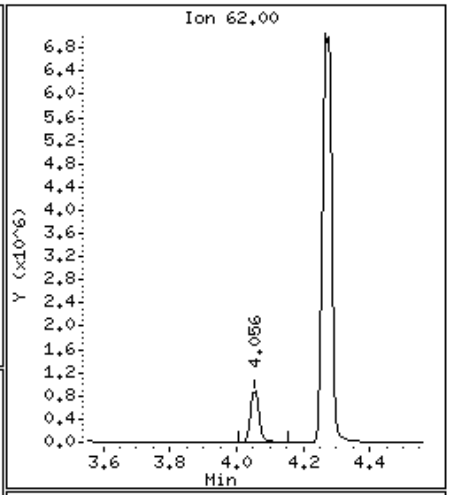
52 1,2-Dichloroethane Concentration: 142.638 ug/L

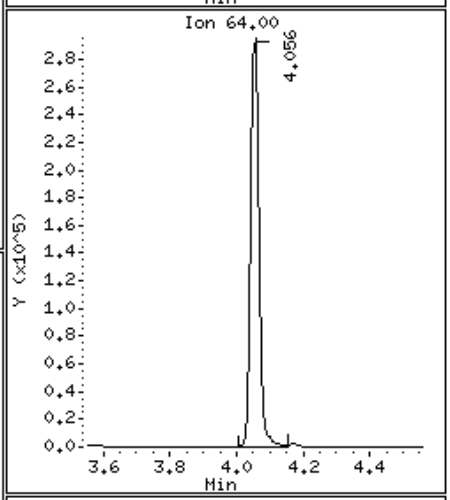


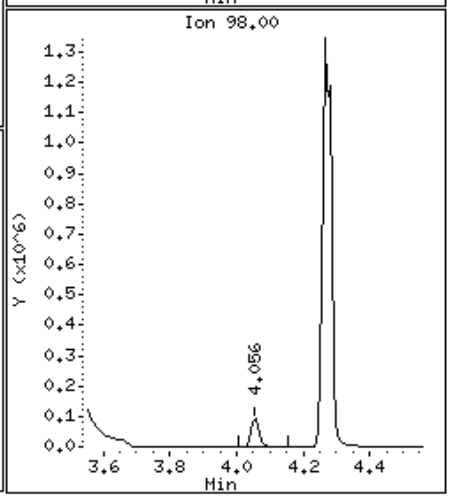












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 14

Date : 01-JUL-2024 15:19

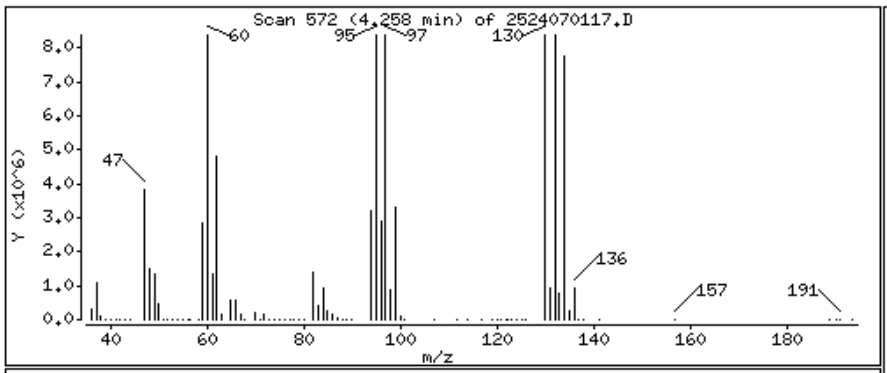
Client ID: ICT12D_062024_a Instrument: ms25.i

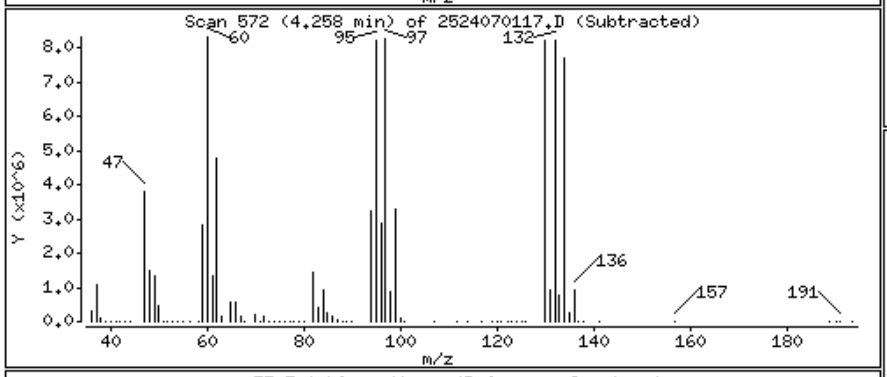
Sample Info: 3366026010;;1;;;;;

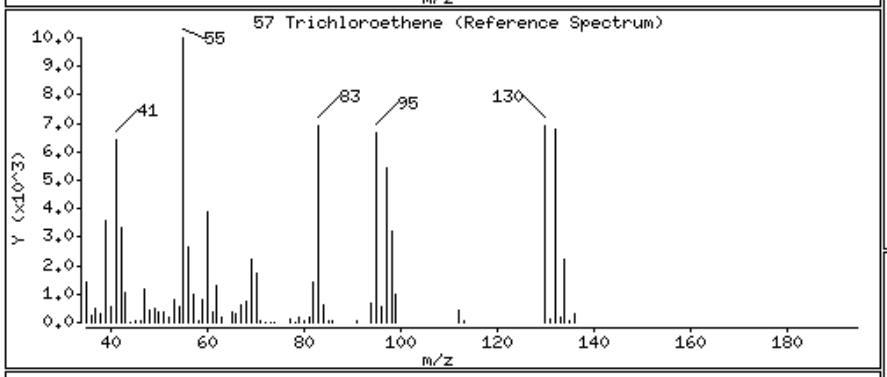
Purge Volume: 5.0 Operator: TMP

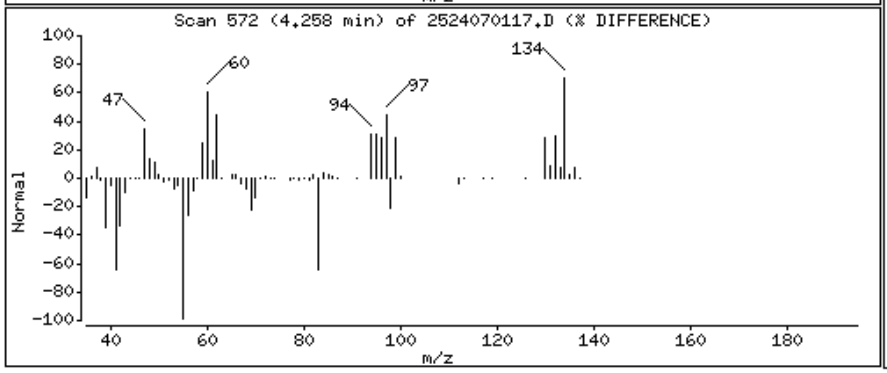
Column phase: DB-VRX Column diameter: 0.25

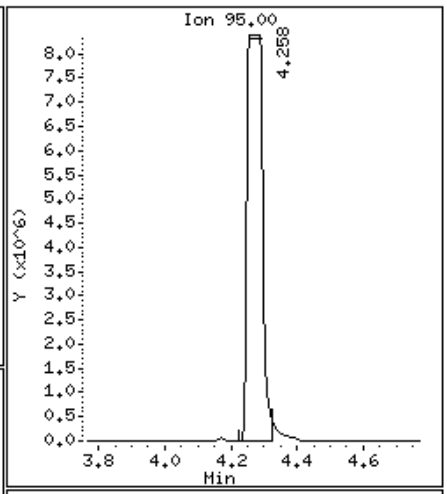
57 Trichloroethene Concentration: 3220.37 ug/L

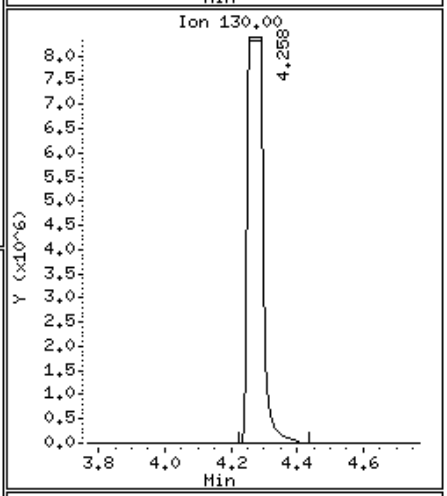


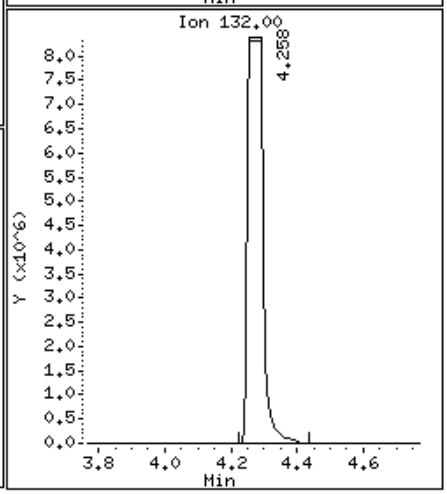












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 15

Date : 01-JUL-2024 15:19

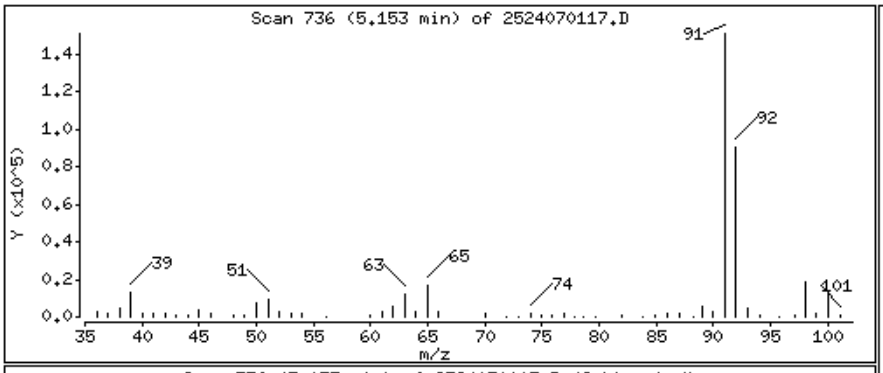
Client ID: ICT12D_062024_a Instrument: ms25.i

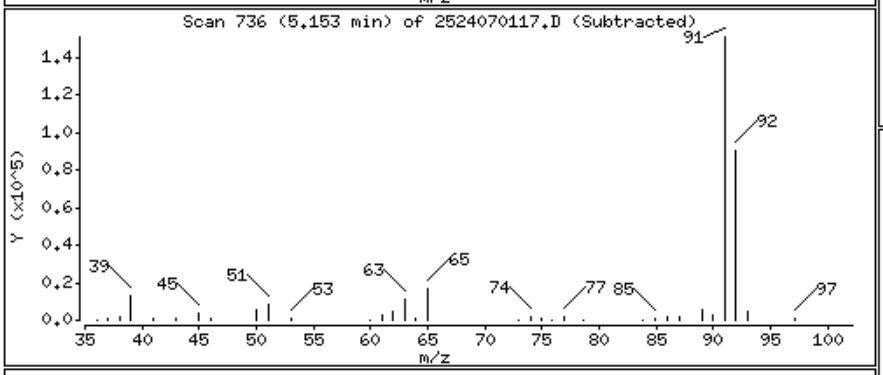
Sample Info: 3366026010;;1;;;;;

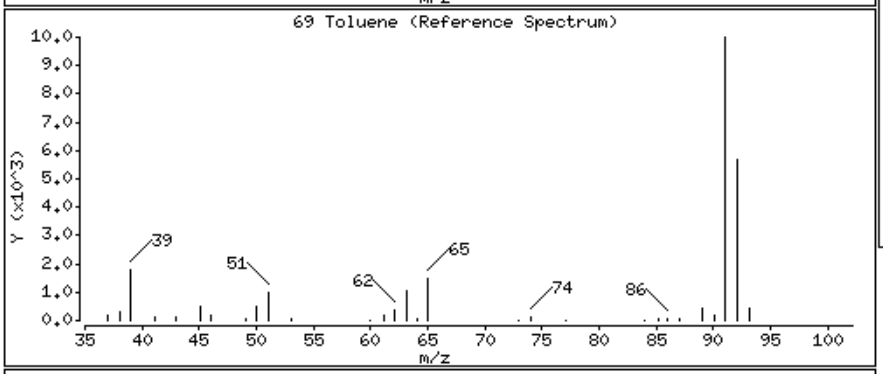
Purge Volume: 5.0 Operator: TMP

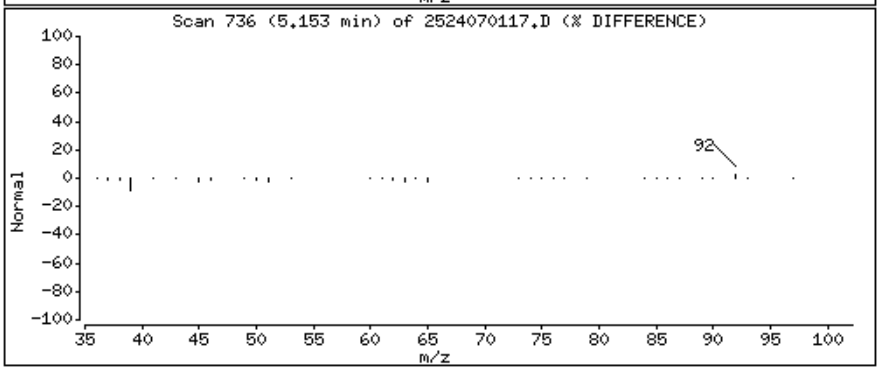
Column phase: DB-VRX Column diameter: 0.25

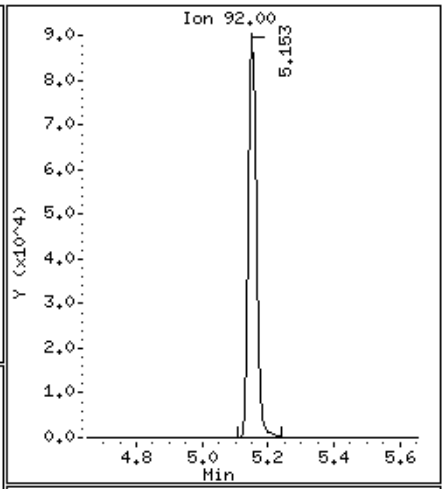
69 Toluene Concentration: 7.14748 ug/L

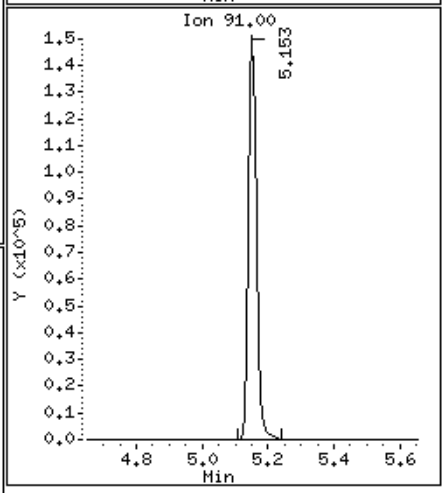












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 16

Date : 01-JUL-2024 15:19

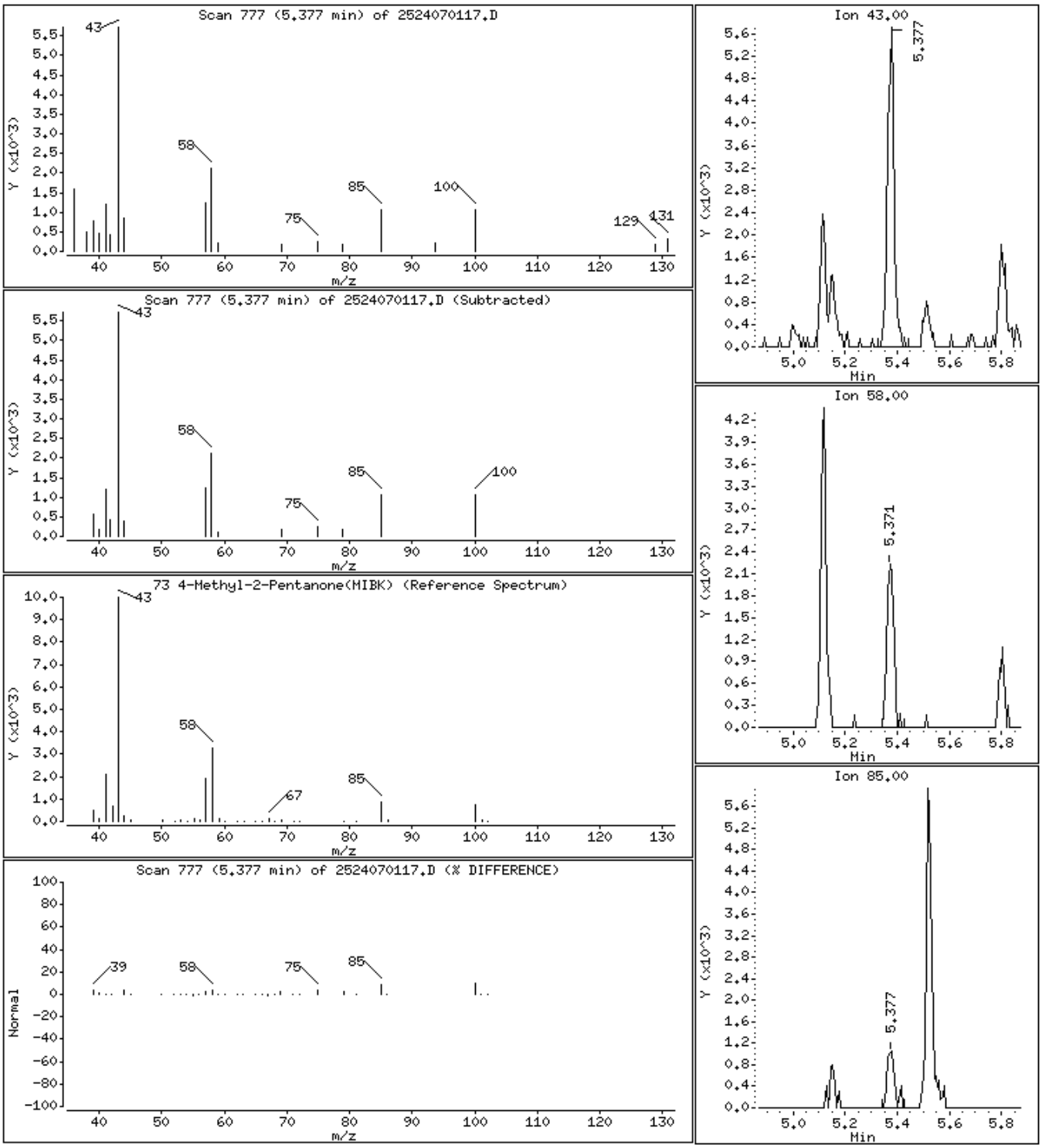
Client ID: ICT12D_062024_a Instrument: ms25.i

Sample Info: 3366026010;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

73 4-Methyl-2-Pentanone(MIBK) Concentration: 2.19892 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 17

Date : 01-JUL-2024 15:19

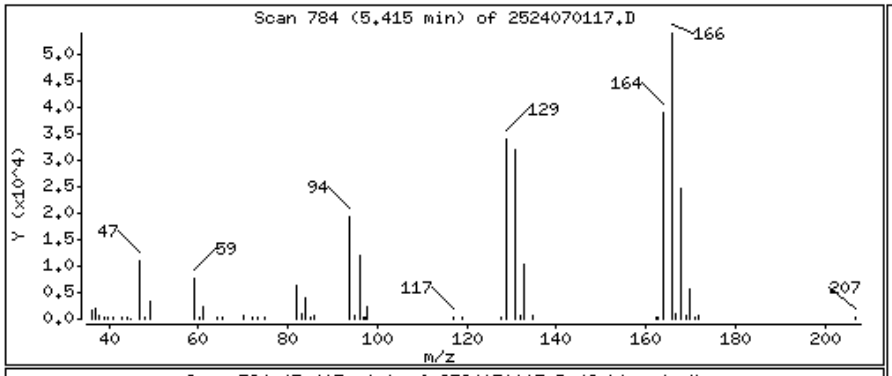
Client ID: ICT12D_062024_a Instrument: ms25.i

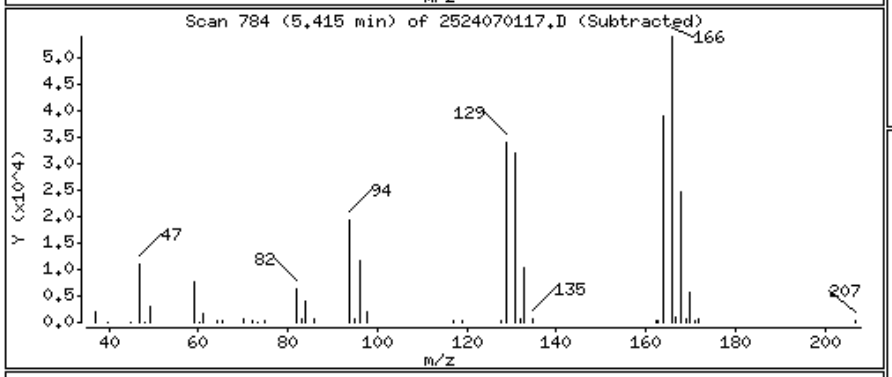
Sample Info: 3366026010;;1;;;;;

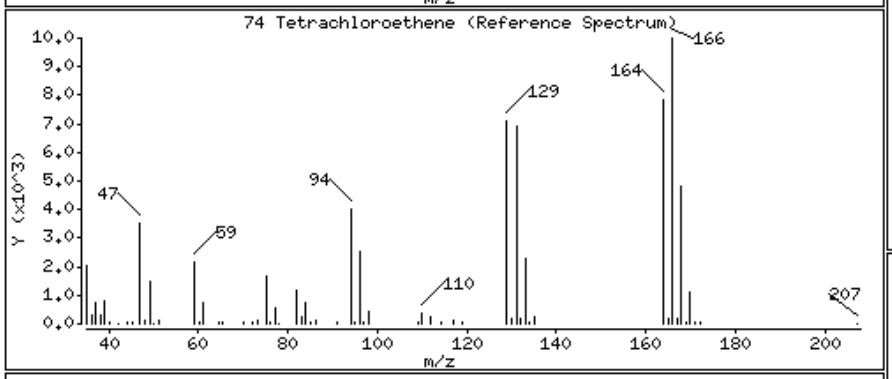
Purge Volume: 5.0 Operator: TMP

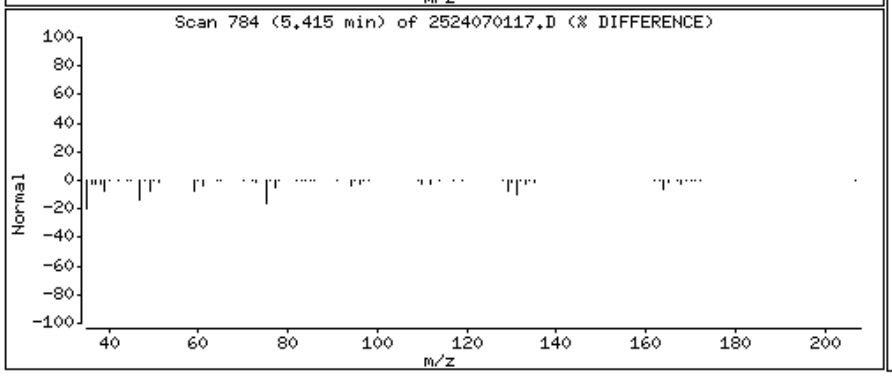
Column phase: DB-VRX Column diameter: 0.25

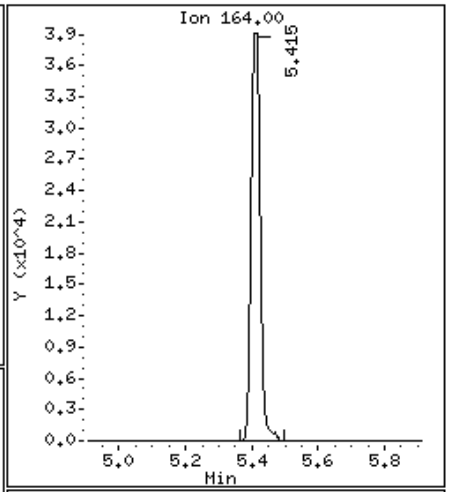
74 Tetrachloroethene Concentration: 9.47607 ug/L

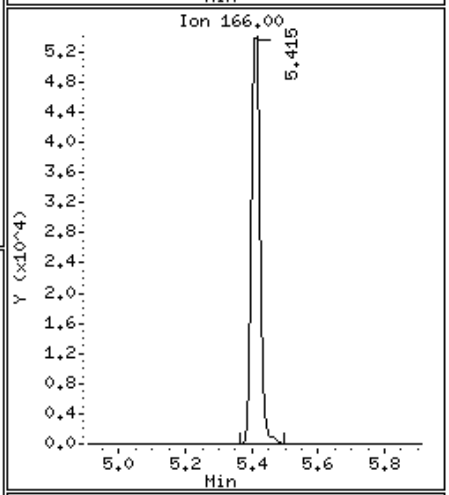


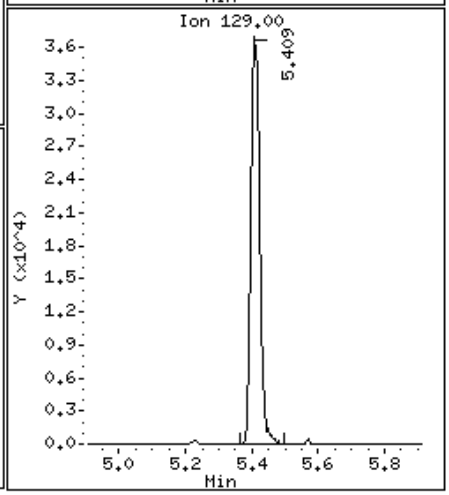












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 18

Date : 01-JUL-2024 15:19

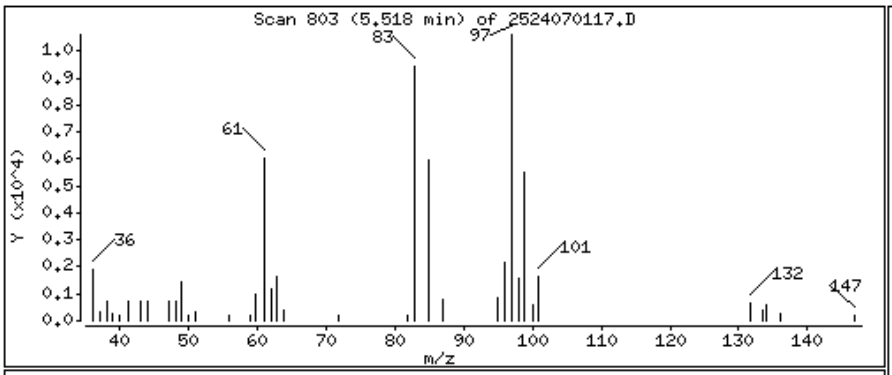
Client ID: ICT12D_062024_a Instrument: ms25.i

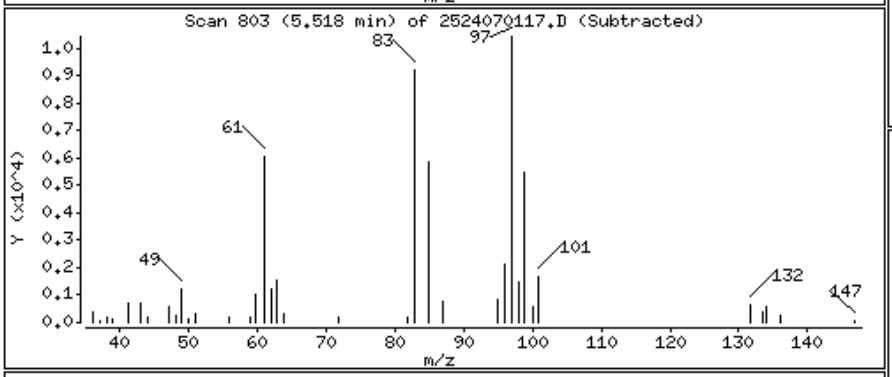
Sample Info: 3366026010;;1;;;;;

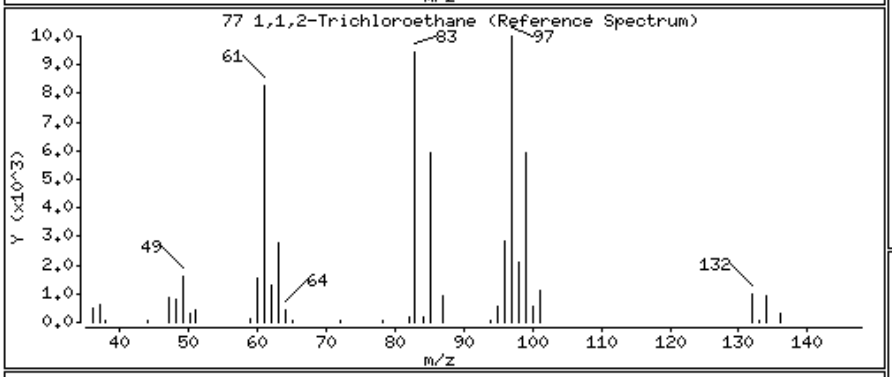
Purge Volume: 5.0 Operator: TMP

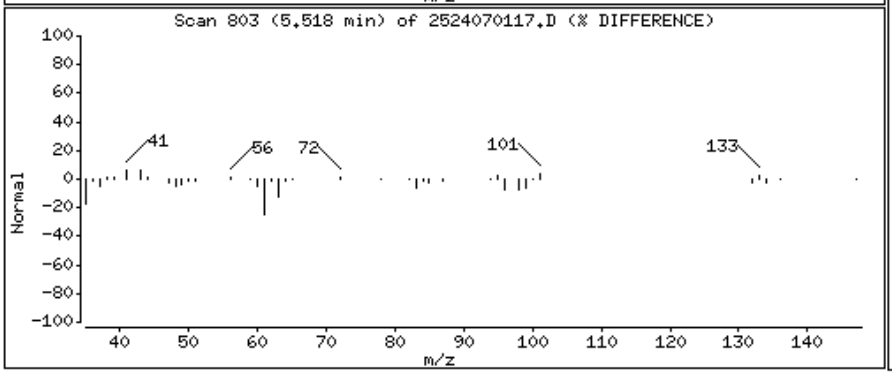
Column phase: DB-VRX Column diameter: 0.25

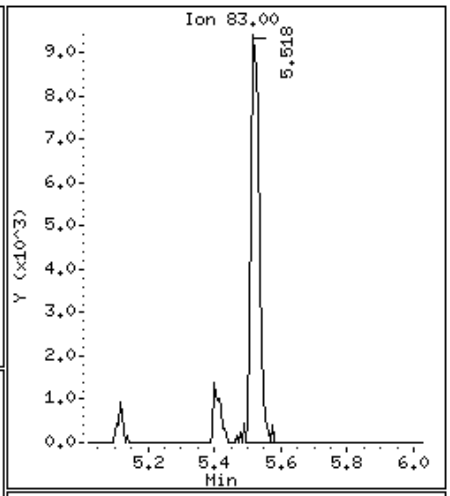
77 1,1,2-Trichloroethane Concentration: 2.46174 ug/L

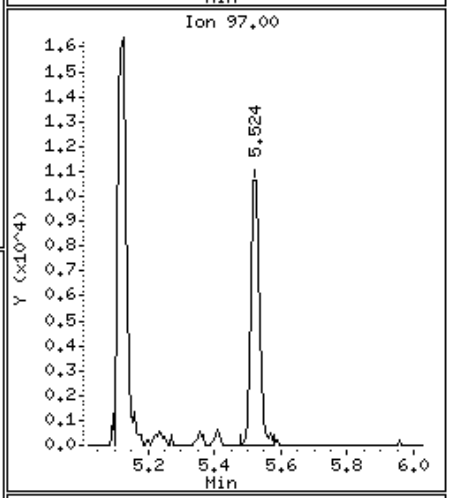


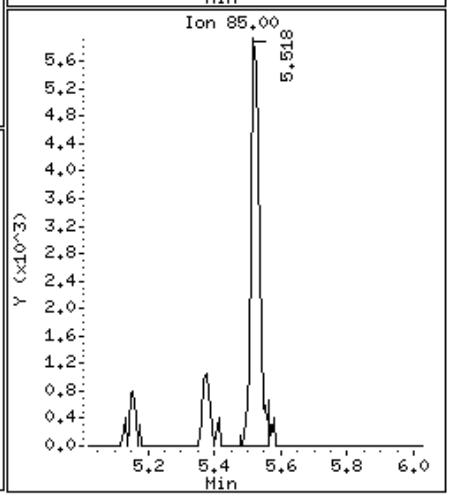












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 19

Date : 01-JUL-2024 15:19

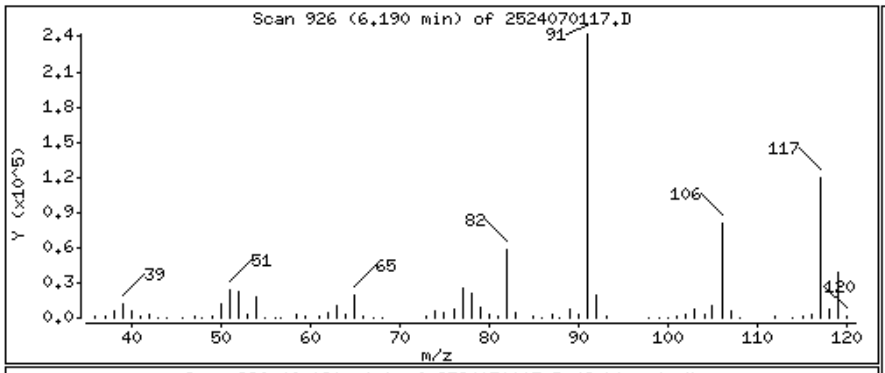
Client ID: ICT12D_062024_a Instrument: ms25.i

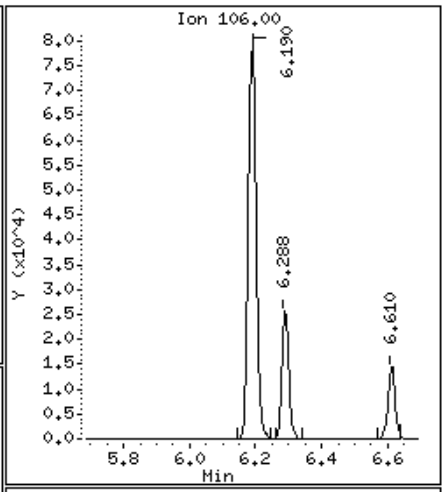
Sample Info: 3366026010;;1;;;;;

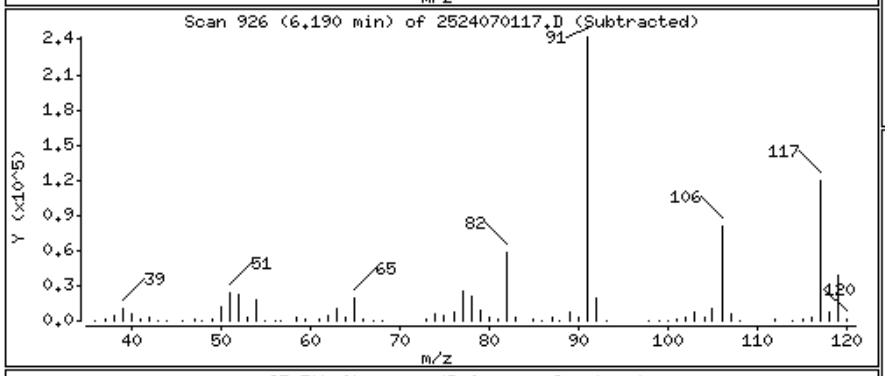
Purge Volume: 5.0 Operator: TMP

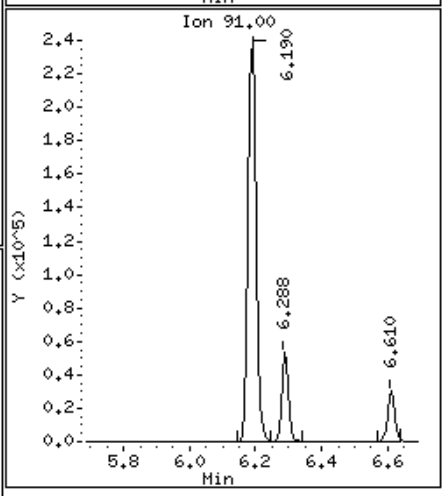
Column phase: DB-VRX Column diameter: 0.25

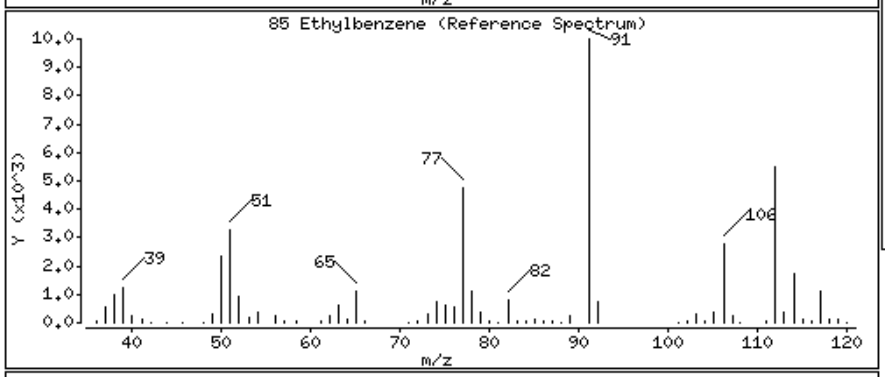
85 Ethylbenzene Concentration: 10.0868 ug/L

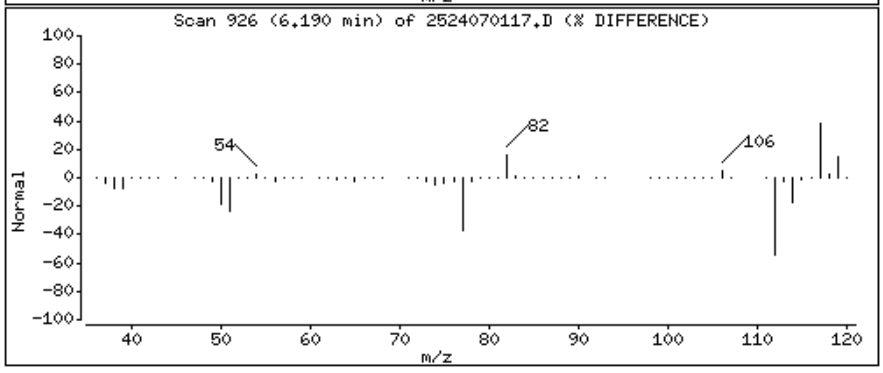












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 20

Date : 01-JUL-2024 15:19

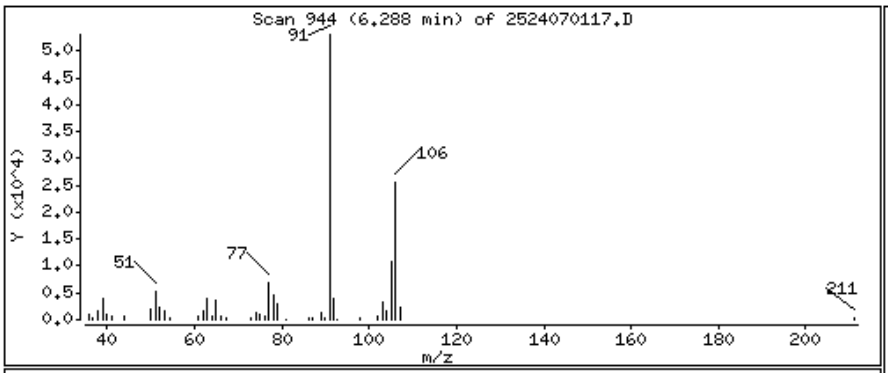
Client ID: ICT12D_062024_a Instrument: ms25.i

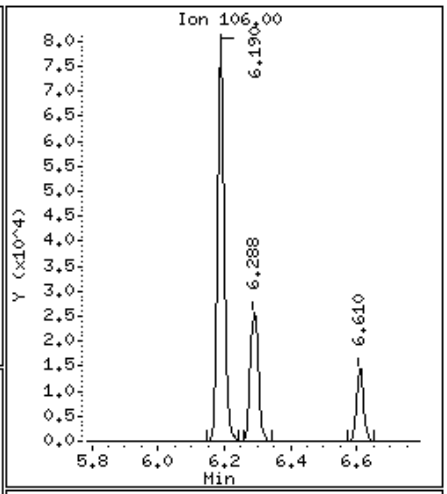
Sample Info: 3366026010;;1;;;;;

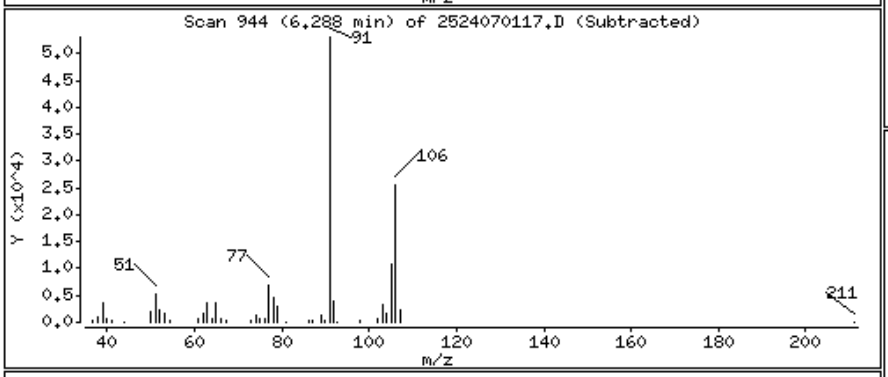
Purge Volume: 5.0 Operator: TMP

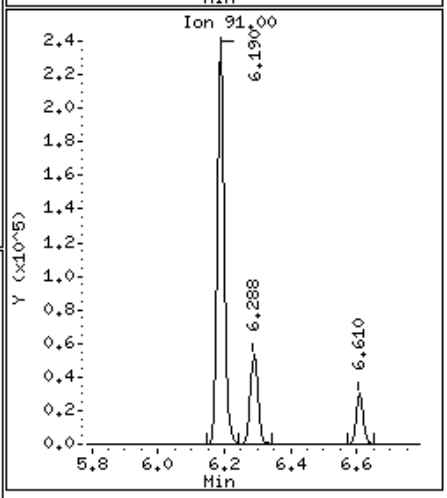
Column phase: DB-VRX Column diameter: 0.25

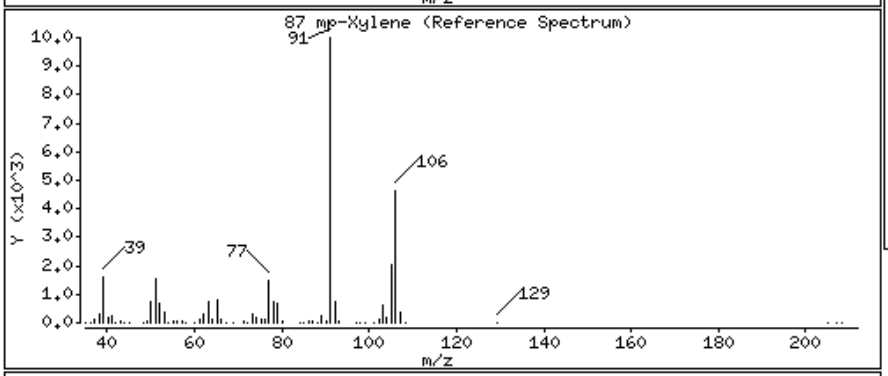
87 mp-Xylene Concentration: 2.15067 ug/L

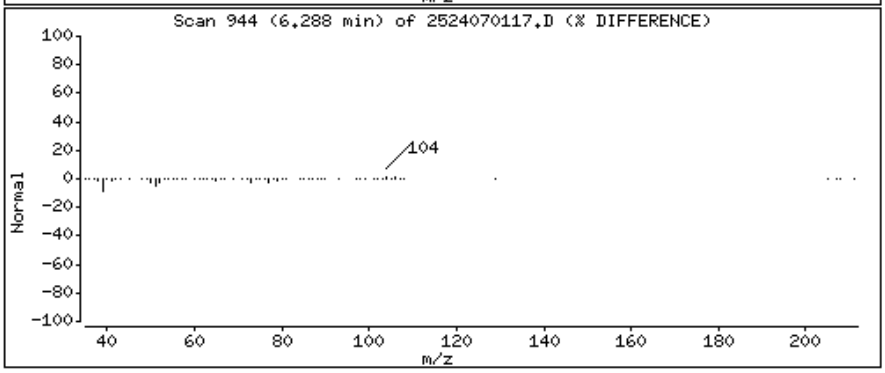












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 21

Date : 01-JUL-2024 15:19

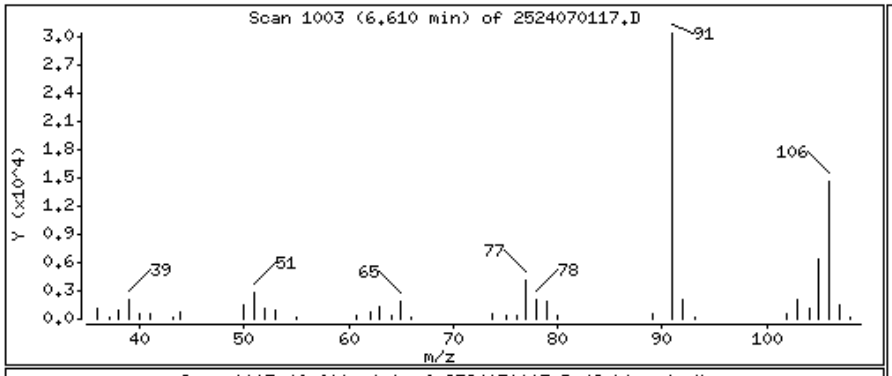
Client ID: ICT12D_062024_a Instrument: ms25.i

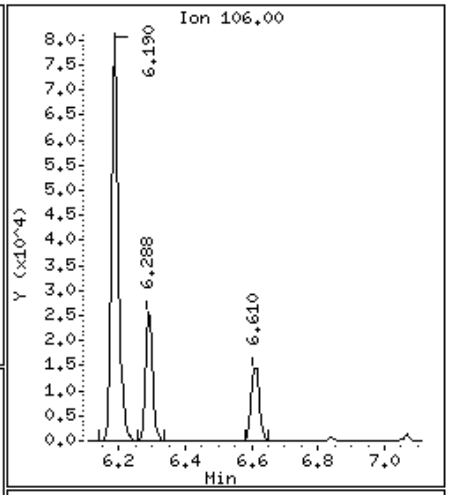
Sample Info: 3366026010;;1;;;;;

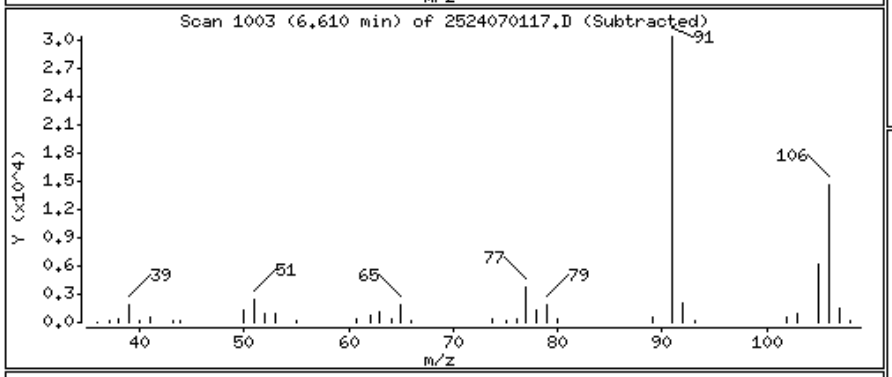
Purge Volume: 5.0 Operator: TMP

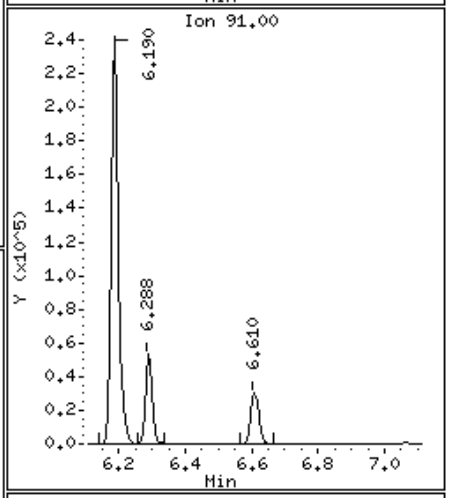
Column phase: DB-VRX Column diameter: 0.25

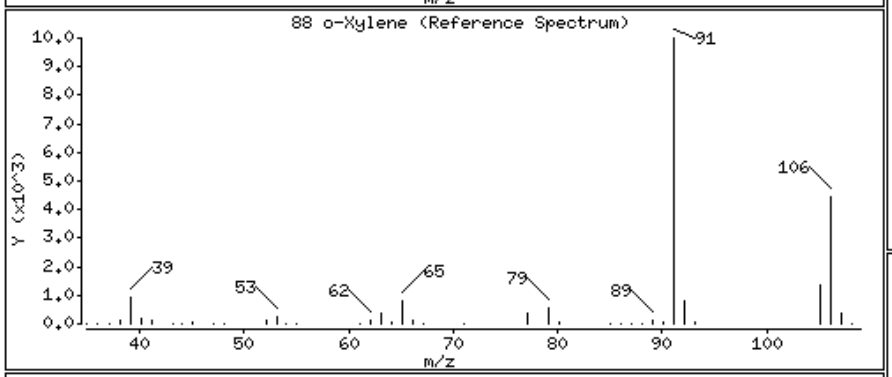
88 o-Xylene Concentration: 1.72731 ug/L

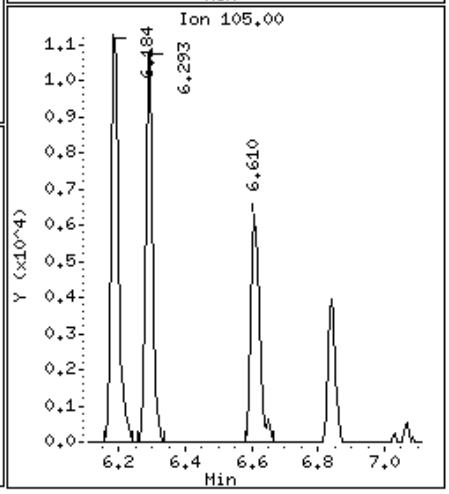


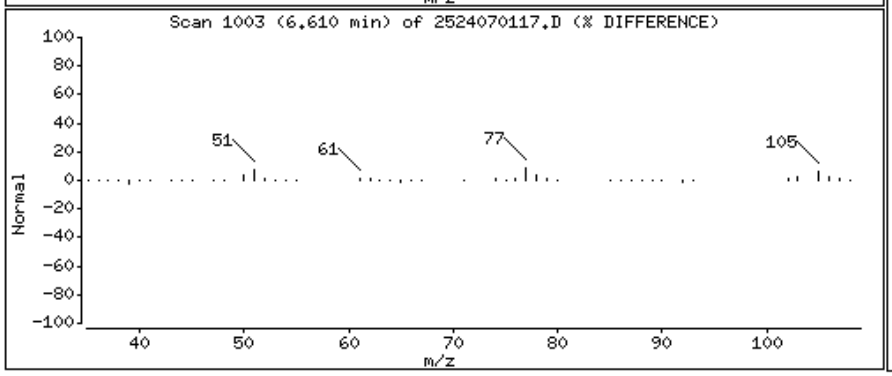












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 22

Date : 01-JUL-2024 15:19

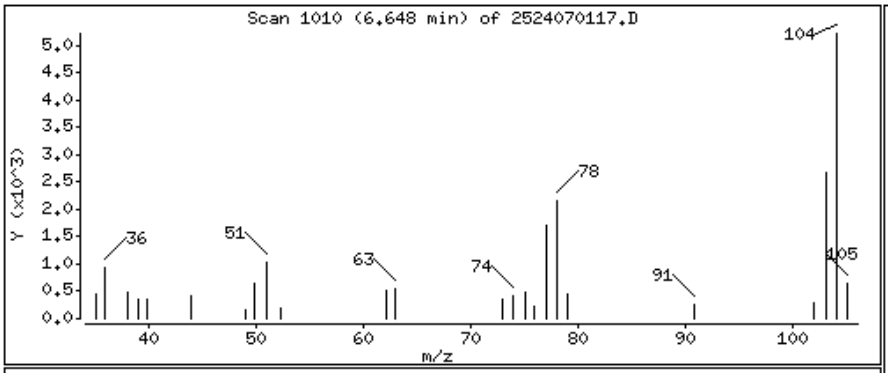
Client ID: ICT12D_062024_a Instrument: ms25.i

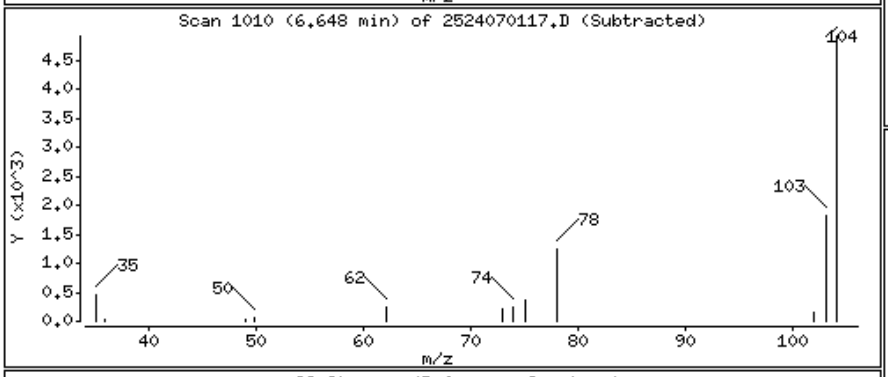
Sample Info: 3366026010;;1;;;;;

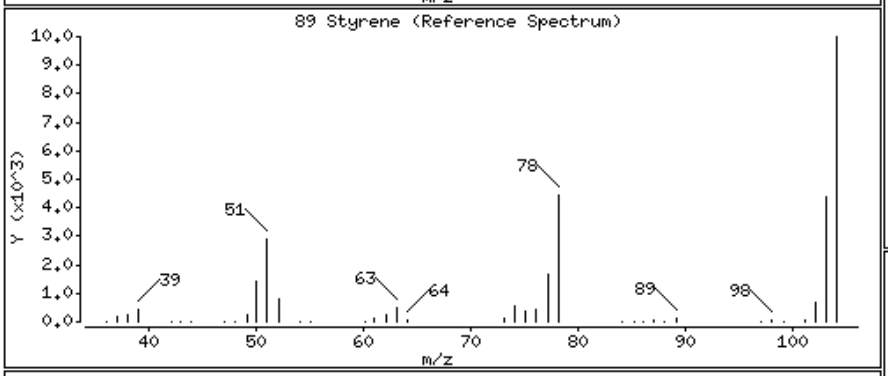
Purge Volume: 5.0 Operator: TMP

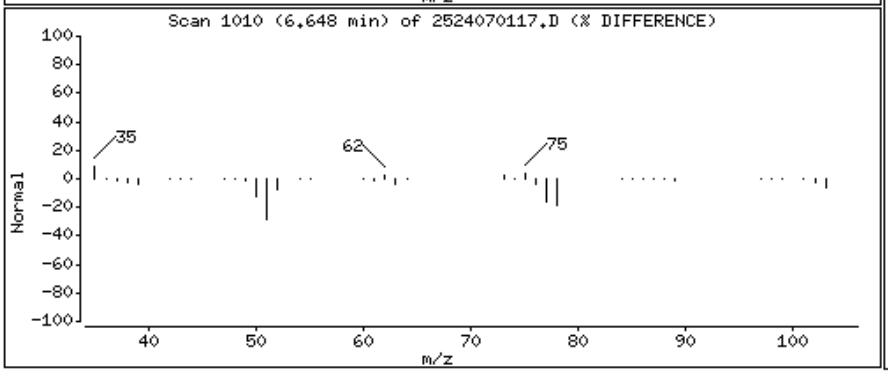
Column phase: DB-VRX Column diameter: 0.25

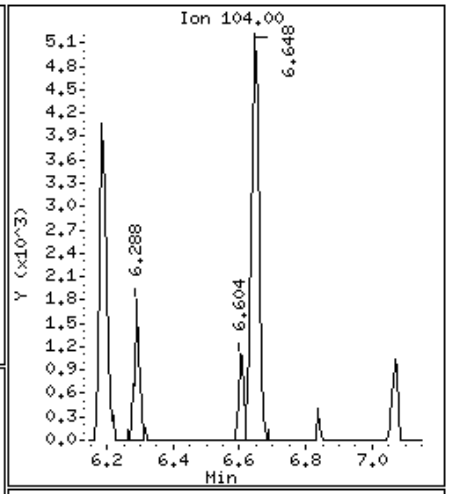
89 Styrene Concentration: 0.657472 ug/L

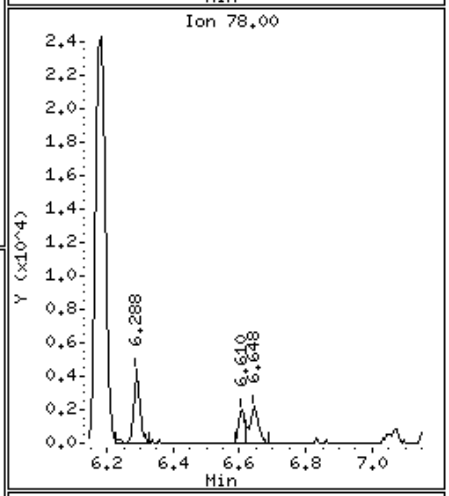


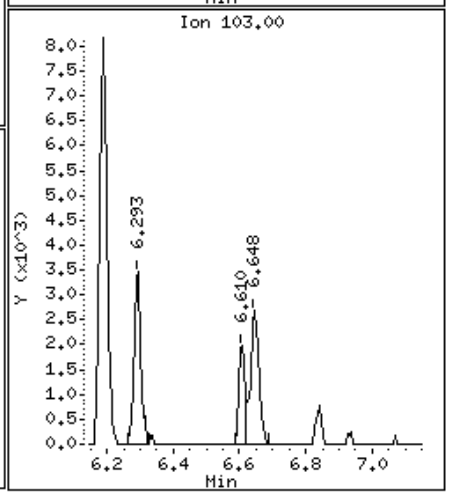












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 23

Date : 01-JUL-2024 15:19

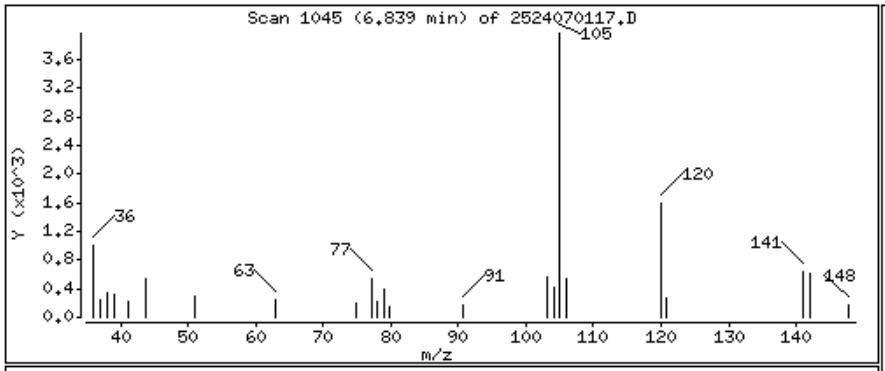
Client ID: ICT12D_062024_a Instrument: ms25.i

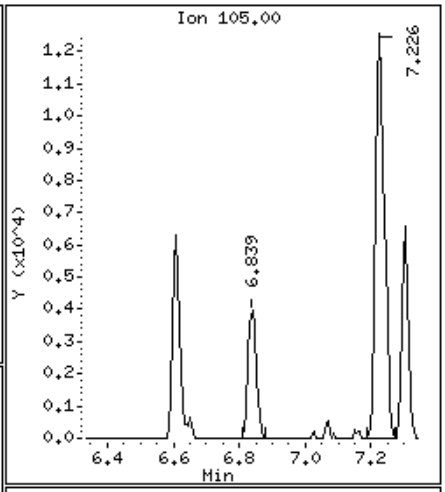
Sample Info: 3366026010;;1;;;;;

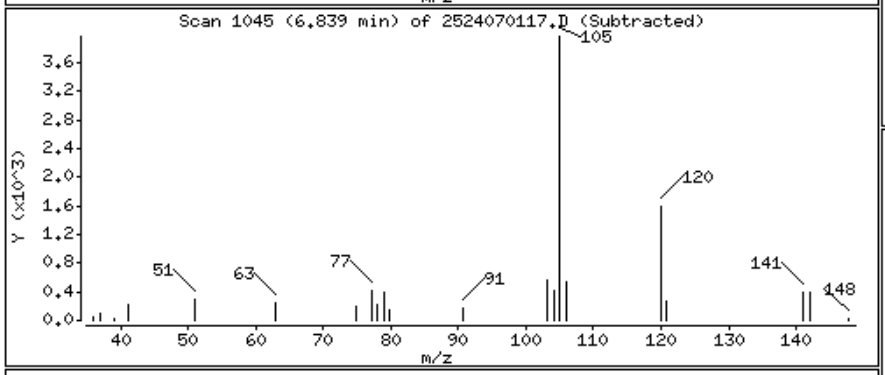
Purge Volume: 5.0 Operator: TMP

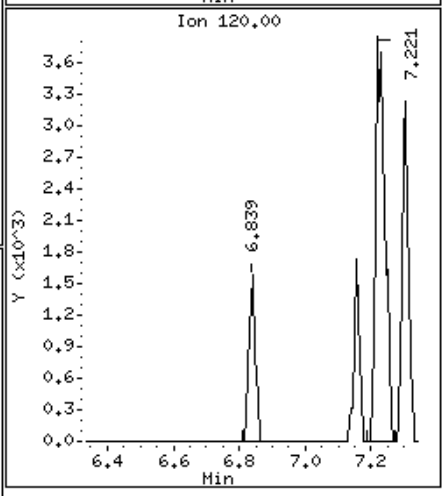
Column phase: DB-VRX Column diameter: 0.25

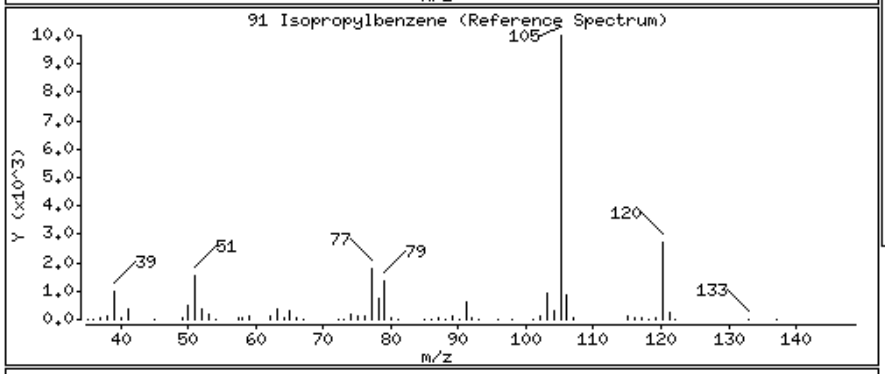
91 Isopropylbenzene Concentration: 0.366132 ug/L

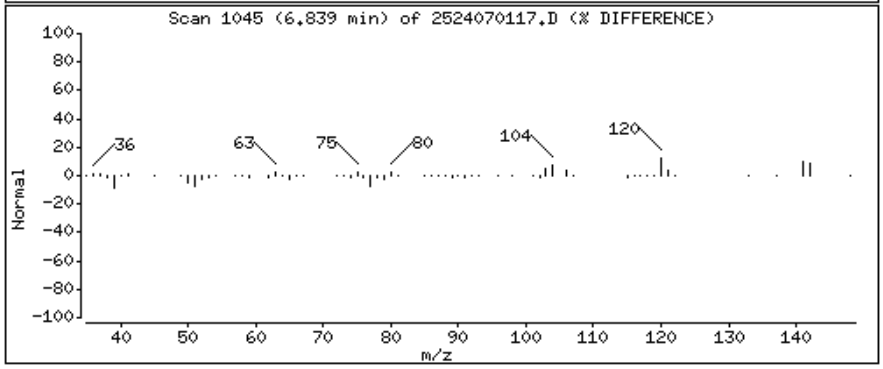












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 24

Date : 01-JUL-2024 15:19

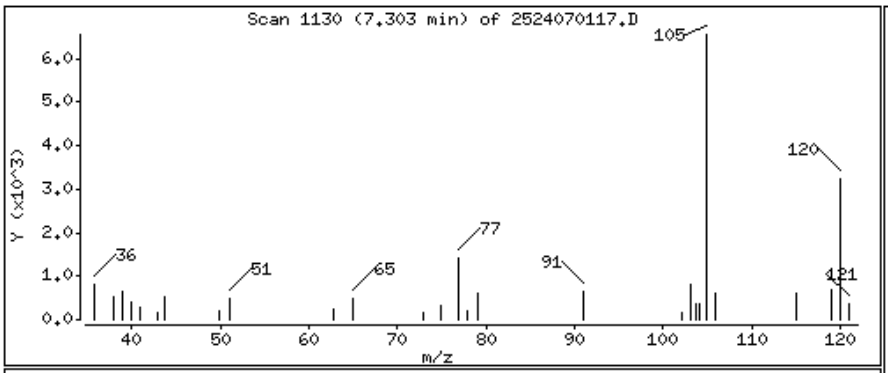
Client ID: ICT12D_062024_a Instrument: ms25.i

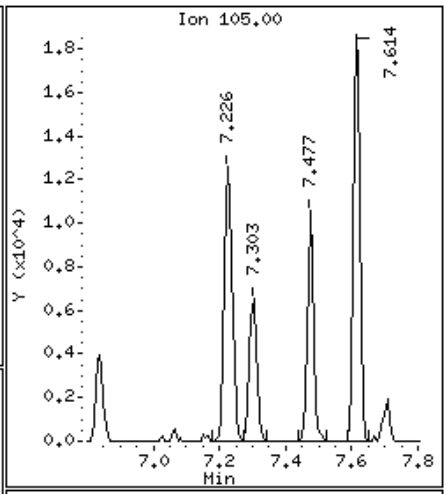
Sample Info: 3366026010;;1;;;;;

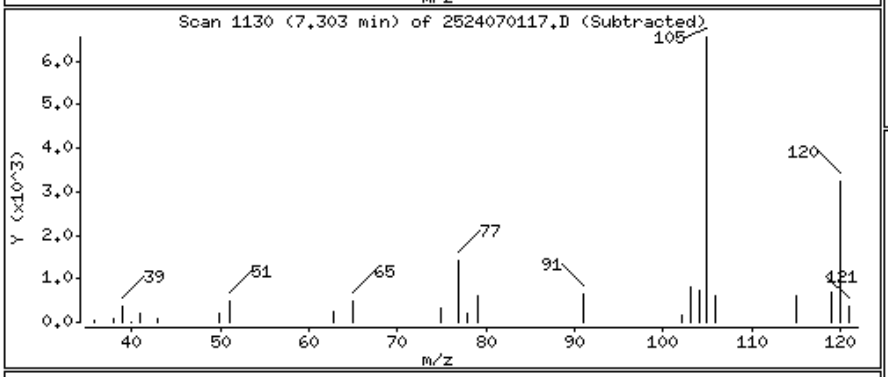
Purge Volume: 5.0 Operator: TMP

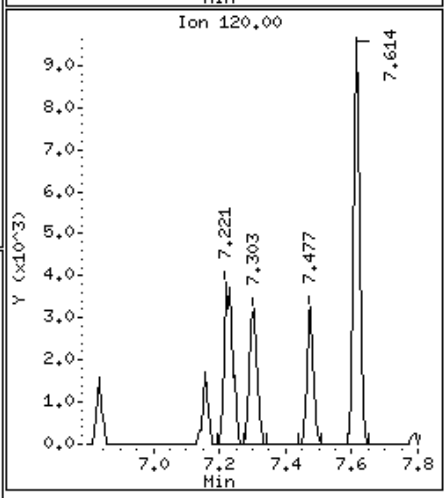
Column phase: DB-VRX Column diameter: 0.25

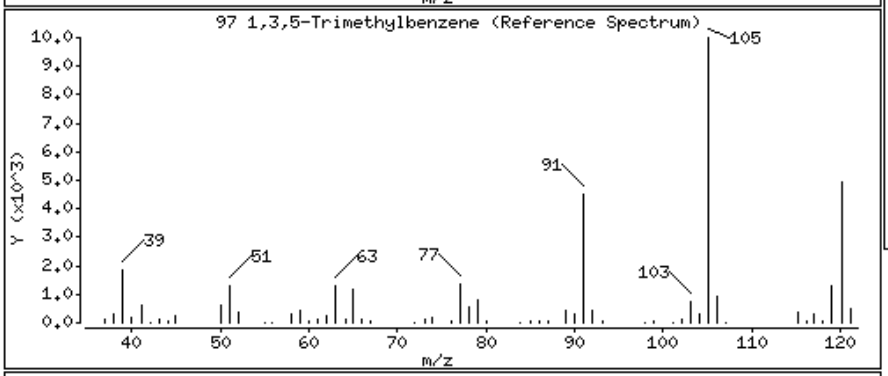
97 1,3,5-Trimethylbenzene Concentration: 0.408432 ug/L

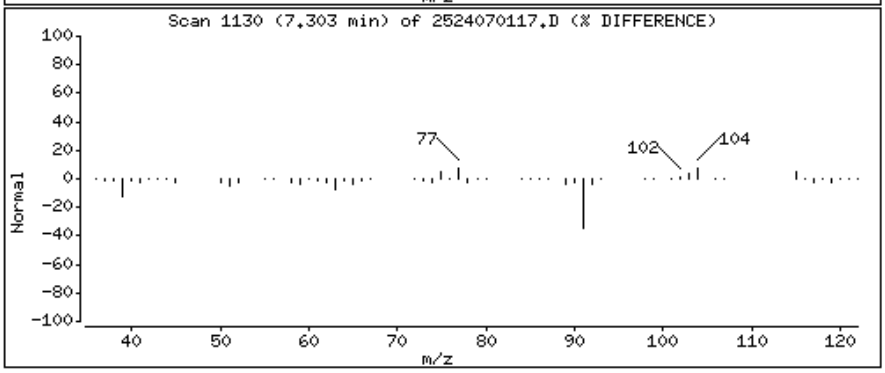












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 25

Date : 01-JUL-2024 15:19

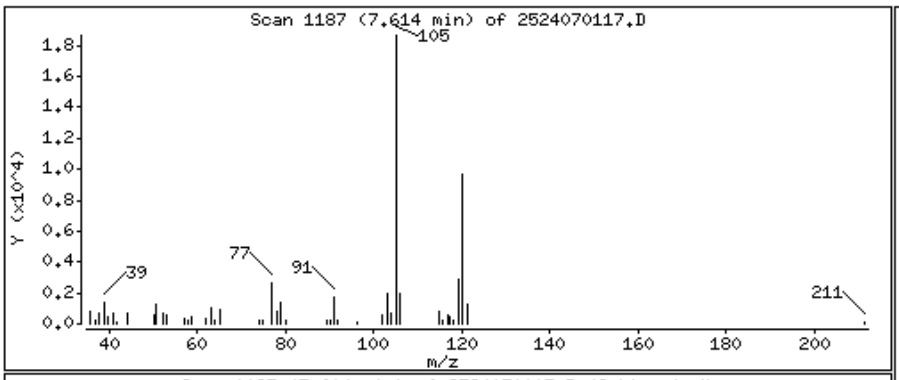
Client ID: ICT12D_062024_a Instrument: ms25.i

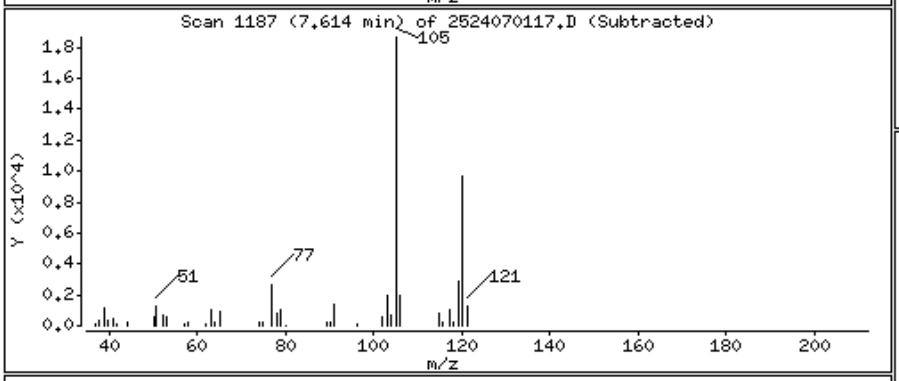
Sample Info: 3366026010;;1;;;;;

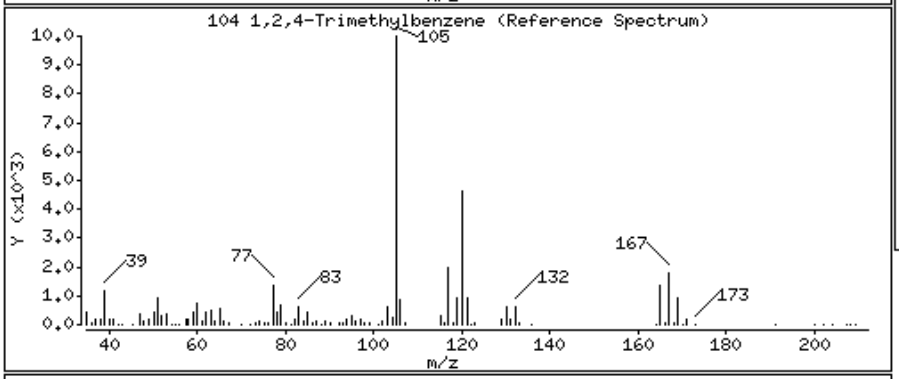
Purge Volume: 5.0 Operator: TMP

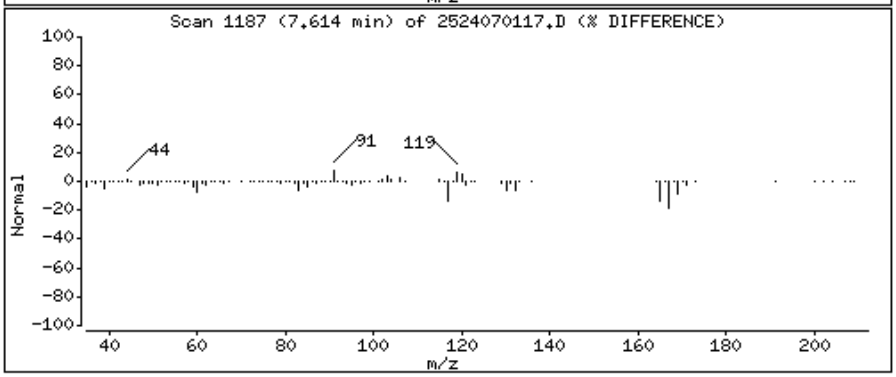
Column phase: DB-VRX Column diameter: 0.25

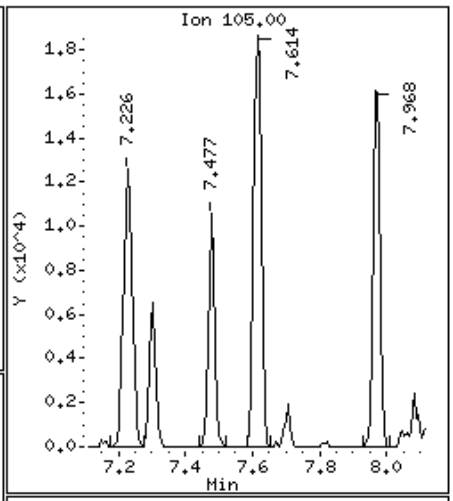
104 1,2,4-Trimethylbenzene Concentration: 0.992654 ug/L

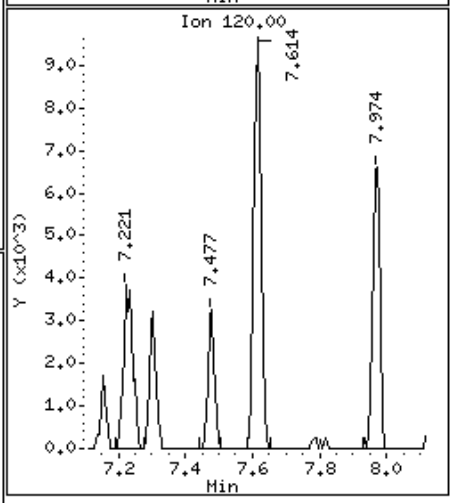












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 26

Date : 01-JUL-2024 15:19

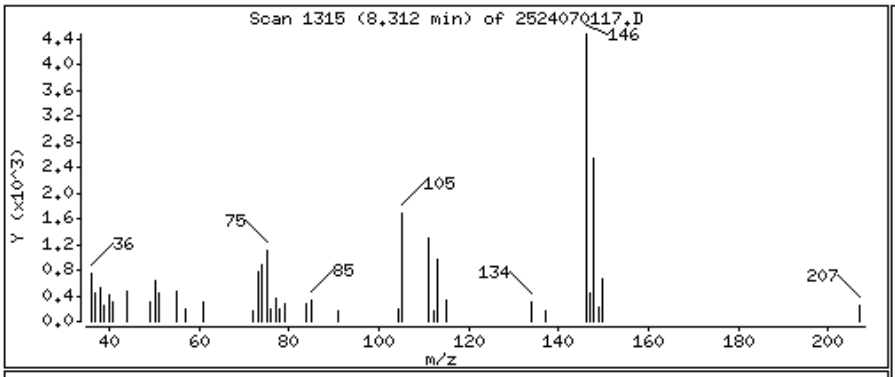
Client ID: ICT12D_062024_a Instrument: ms25.i

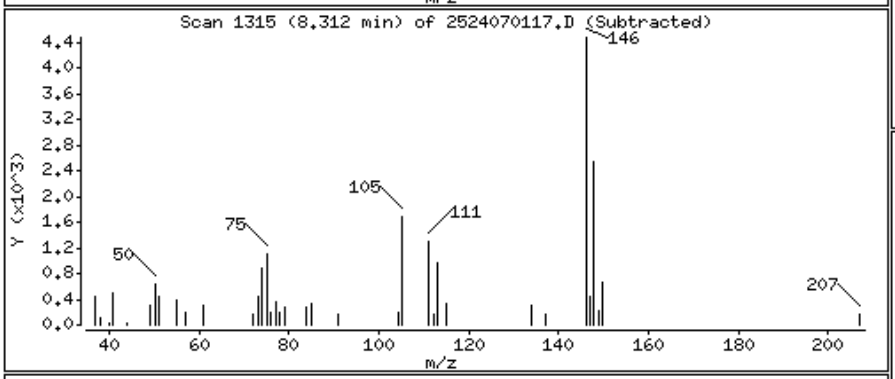
Sample Info: 3366026010;;1;;;;;

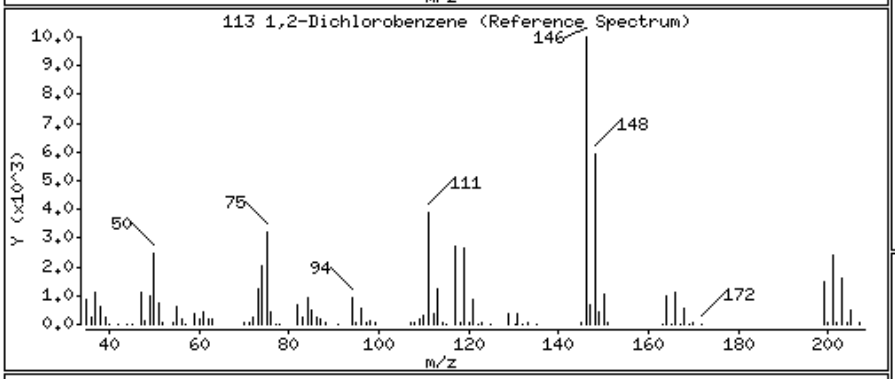
Purge Volume: 5.0 Operator: TMP

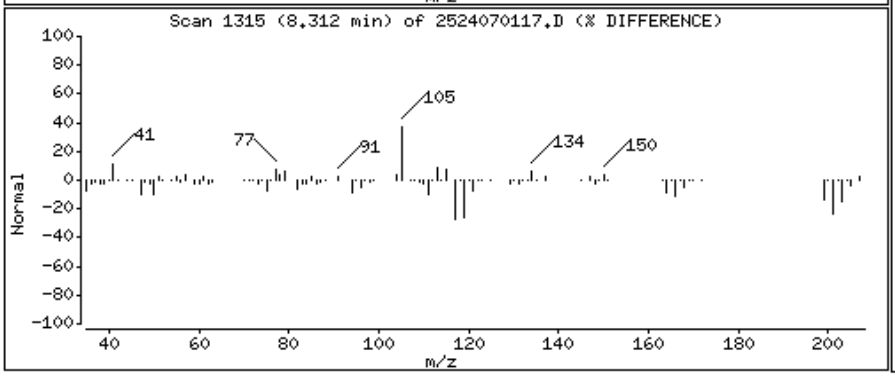
Column phase: DB-VRX Column diameter: 0.25

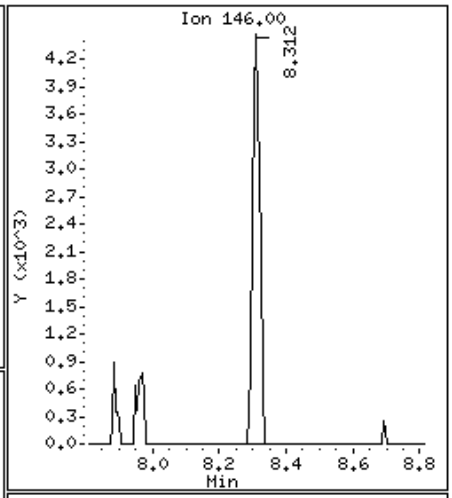
113 1,2-Dichlorobenzene Concentration: 0.462883 ug/L

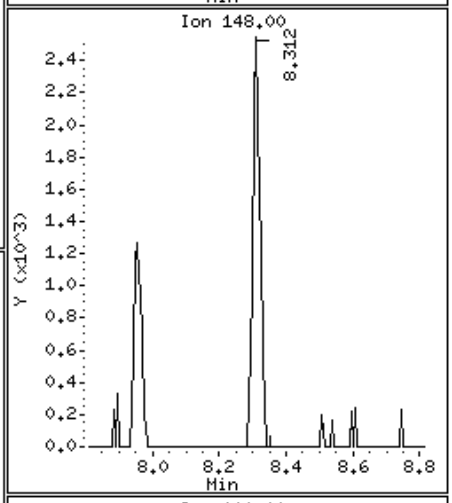


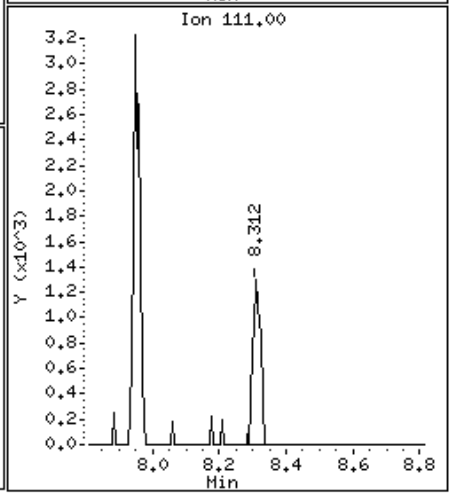












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D Page 27

Date : 01-JUL-2024 15:19

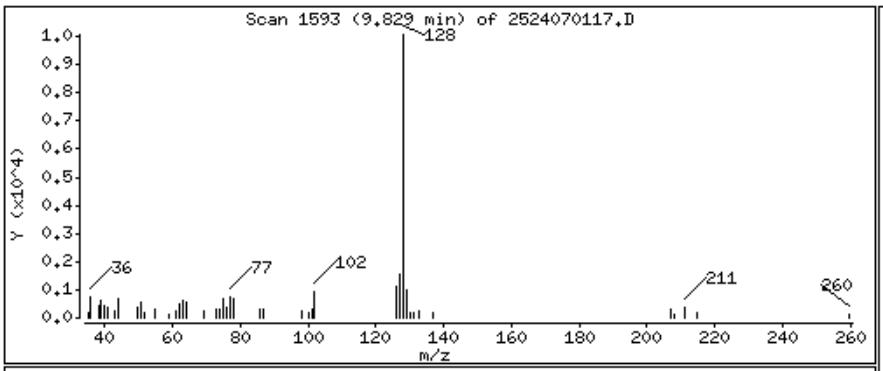
Client ID: ICT12D_062024_a Instrument: ms25.i

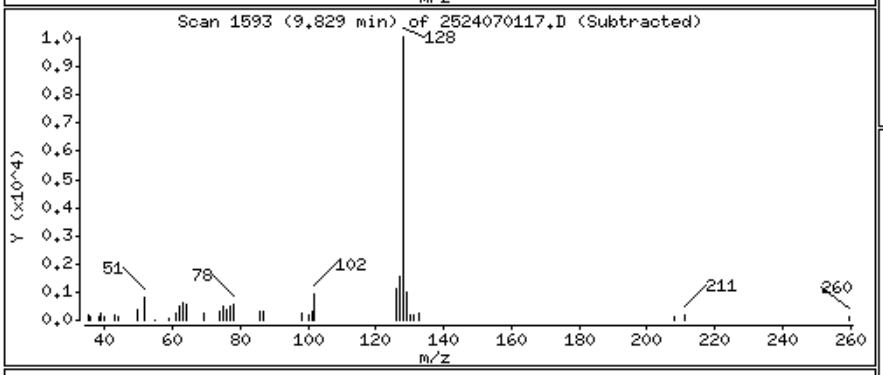
Sample Info: 3366026010;;1;;;;;

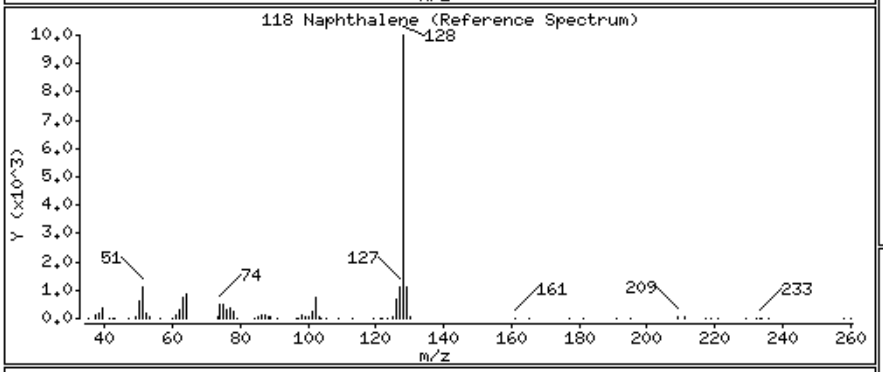
Purge Volume: 5.0 Operator: TMP

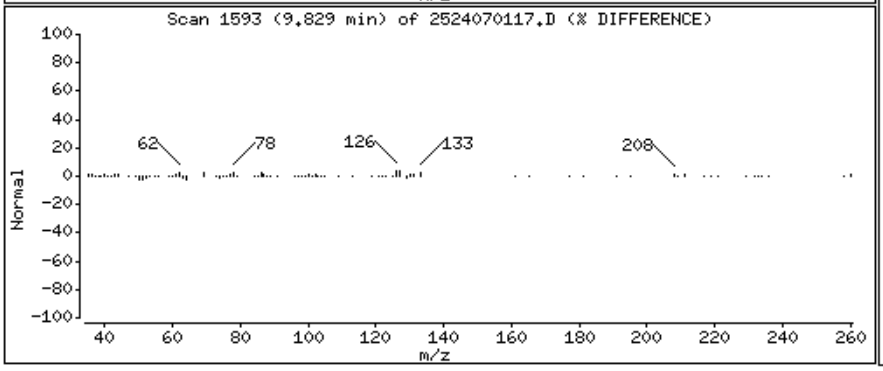
Column phase: DB-VRX Column diameter: 0.25

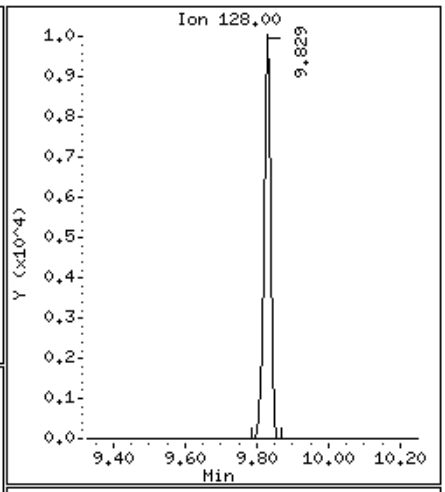
118 Naphthalene Concentration: 0.892057 ug/L

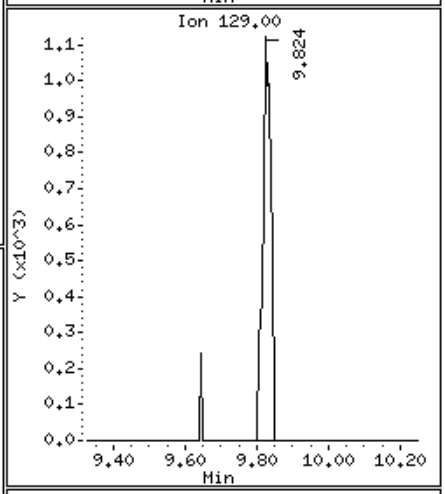


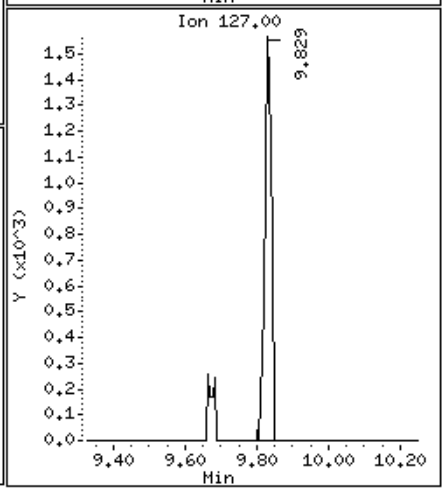












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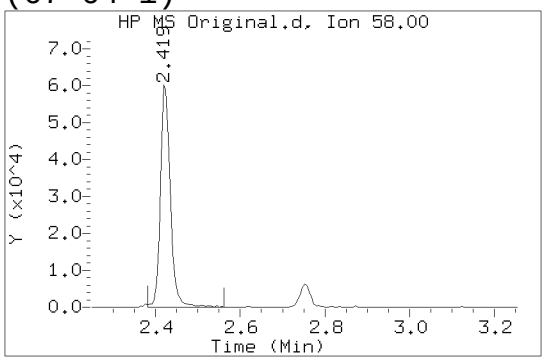
Inj Date : 01-JUL-2024 15:19
InstruID : ms25.i
LabSampID : 3366026010

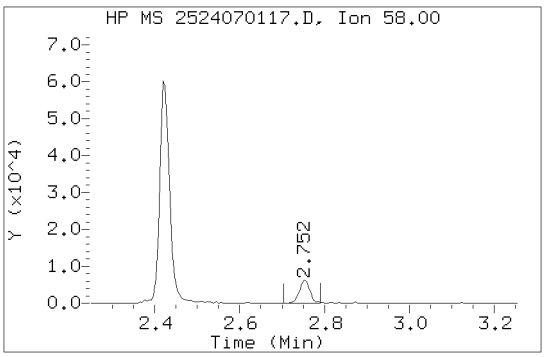
Acetone (67-64-1)

Reason Code: H

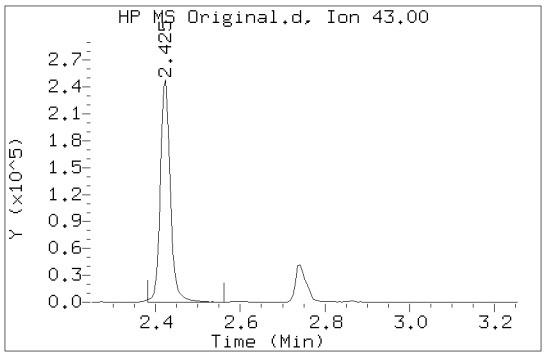
BEFORE
MASS
58
AREA
98556
HEIGHT
60232
01-Jul-2024
18:59



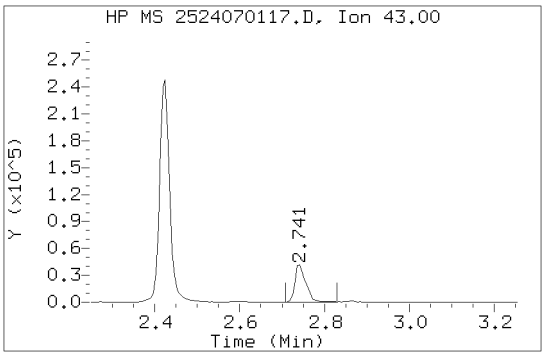
AFTER
MASS
58
AREA
10617
HEIGHT
6229
02-Jul-2024
13:22



BEFORE
MASS
43
AREA
409512
HEIGHT
248000
01-Jul-2024
18:59



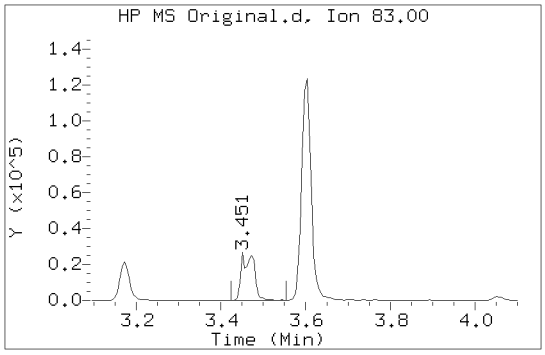
AFTER
MASS
43
AREA
75217
HEIGHT
41280
02-Jul-2024
13:22



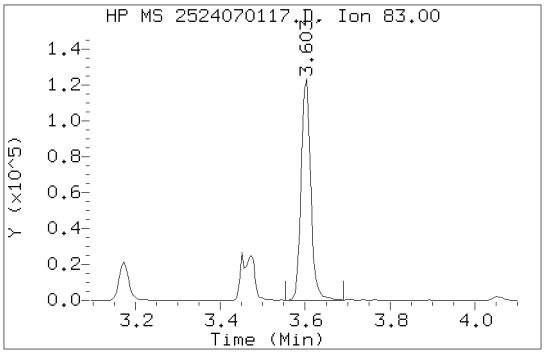
Chloroform (67-66-3)

Reason Code: H

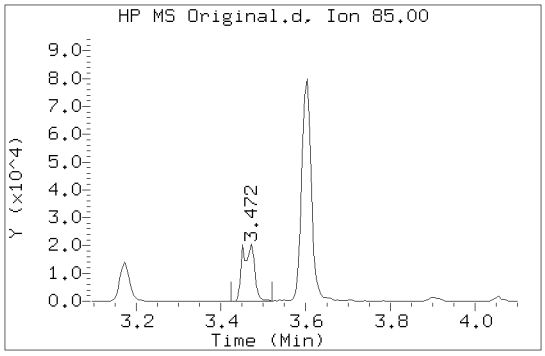
BEFORE
MASS
83
AREA
52922
HEIGHT
26584
01-Jul-2024
18:59



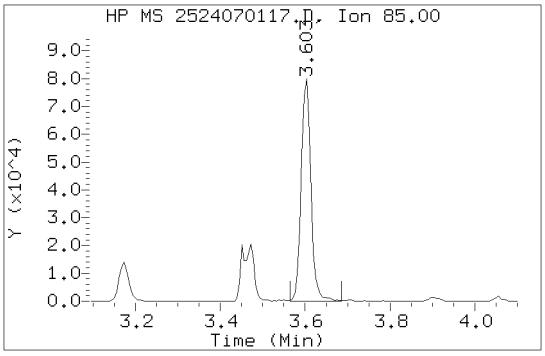
AFTER
MASS
83
AREA
194389
HEIGHT
123384
02-Jul-2024
13:22



BEFORE
MASS
85
AREA
39510
HEIGHT
20656
01-Jul-2024
18:59



AFTER
MASS
85
AREA
127994
HEIGHT
79862
02-Jul-2024
13:22



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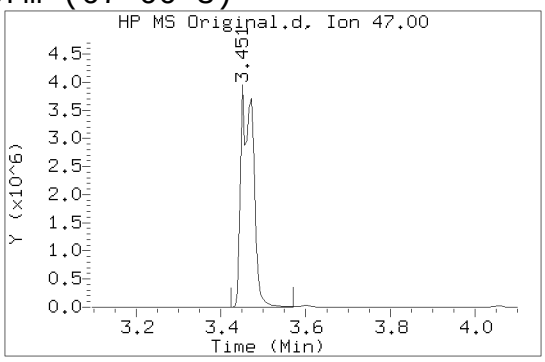
Inj Date : 01-JUL-2024 15:19
InstruID : ms25.i
LabSampID : 3366026010

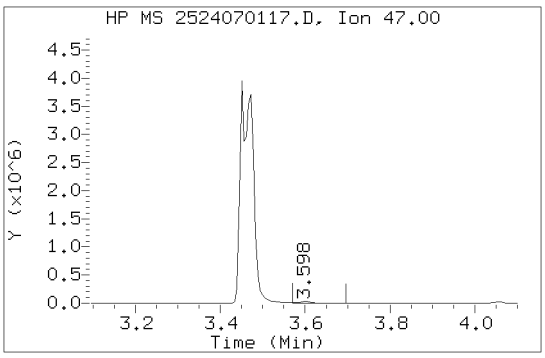
Chloroform (67-66-3)

Reason Code: H

BEFORE
MASS
47
AREA
7976564
HEIGHT
3951003
01-Jul-2024
18:59



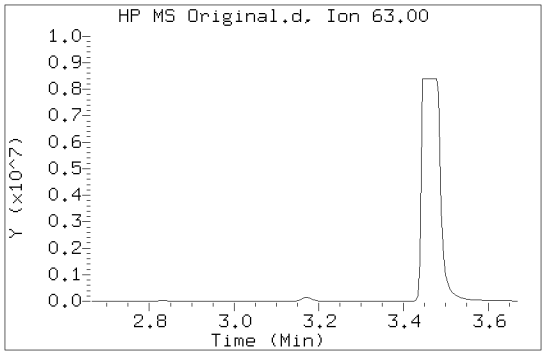
AFTER
MASS
47
AREA
65202
HEIGHT
30940
02-Jul-2024
13:22



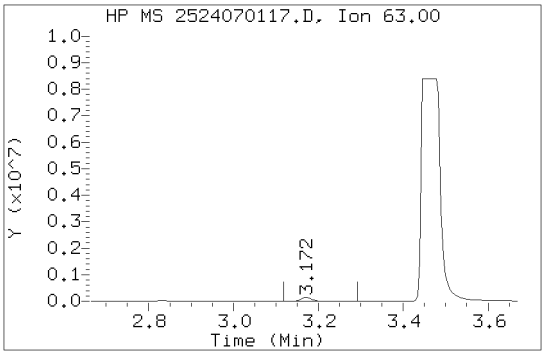
1,1-Dichloroethane (75-34-3)

Reason Code: H

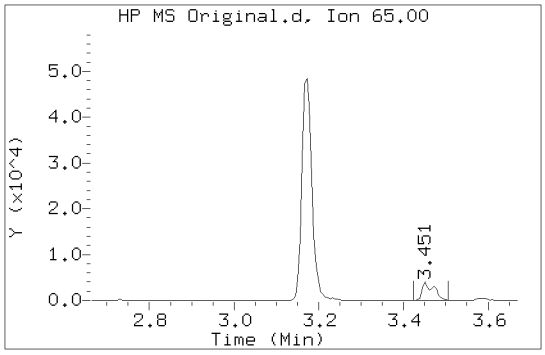
BEFORE
MASS
63
AREA
25308770
HEIGHT
8387851
01-Jul-2024
18:59



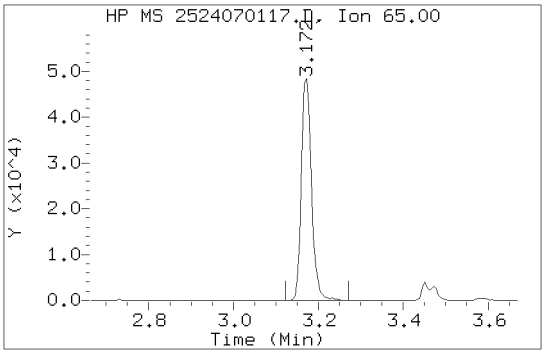
AFTER
MASS
63
AREA
243381
HEIGHT
153728
02-Jul-2024
13:22



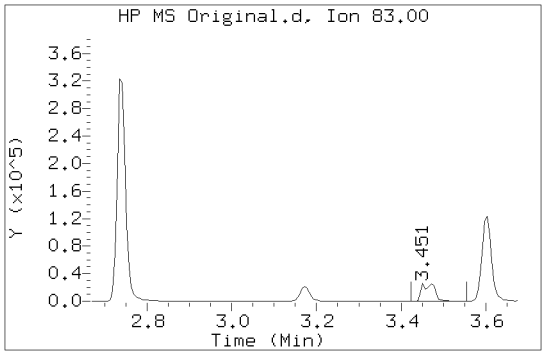
BEFORE
MASS
65
AREA
7578
HEIGHT
4066
01-Jul-2024
18:59



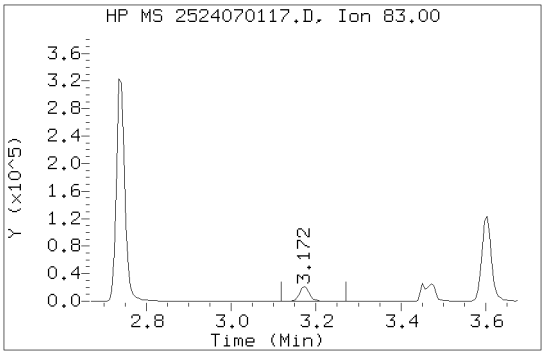
AFTER
MASS
65
AREA
80775
HEIGHT
48408
02-Jul-2024
13:22



BEFORE
MASS
83
AREA
52922
HEIGHT
26584
01-Jul-2024
18:59



AFTER
MASS
83
AREA
33709
HEIGHT
21320
02-Jul-2024
13:22



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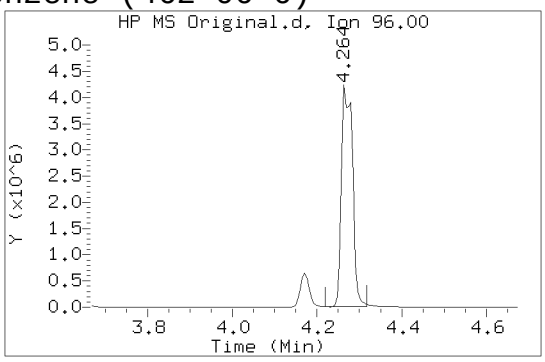
Inj Date : 01-JUL-2024 15:19
InstruID : ms25.i
LabSampID : 3366026010

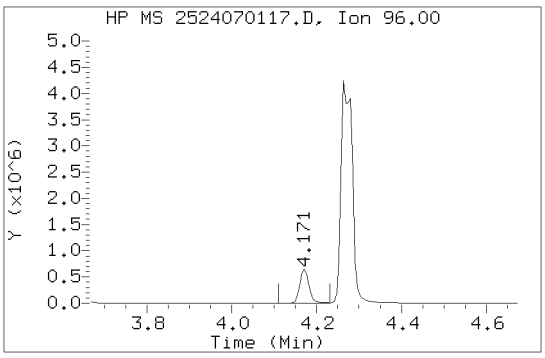
Fluorobenzene (462-06-6)

Reason Code: H

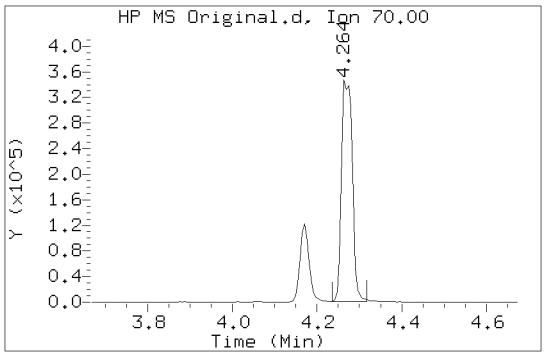
BEFORE
MASS
96
AREA
7726268
HEIGHT
4230847
01-Jul-2024
18:59



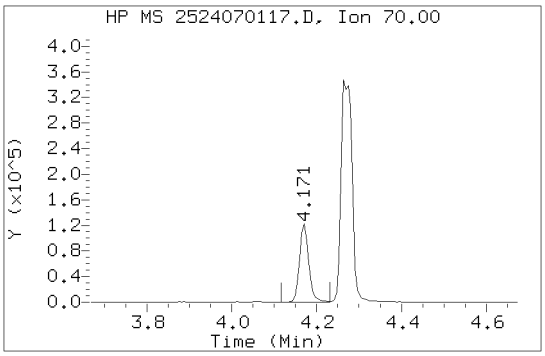
AFTER
MASS
96
AREA
976961
HEIGHT
644006
02-Jul-2024
13:22



BEFORE
MASS
70
AREA
618033
HEIGHT
346147
01-Jul-2024
18:59



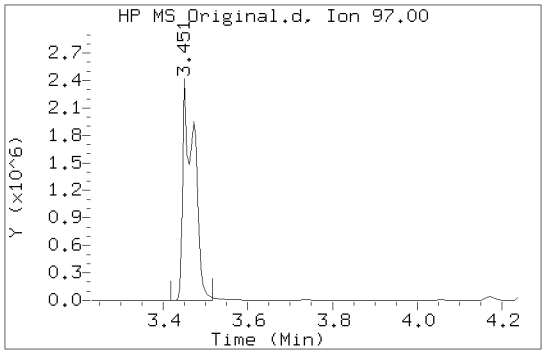
AFTER
MASS
70
AREA
184195
HEIGHT
122312
02-Jul-2024
13:22



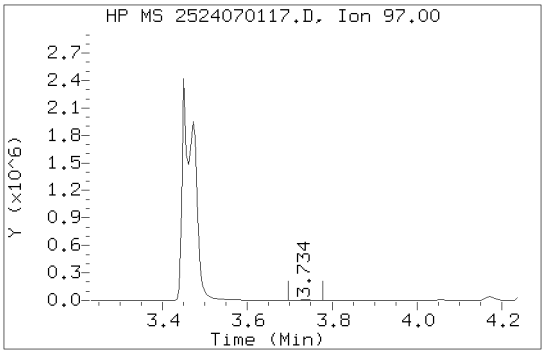
1,1,1-Trichloroethane (71-55-6)

Reason Code: H

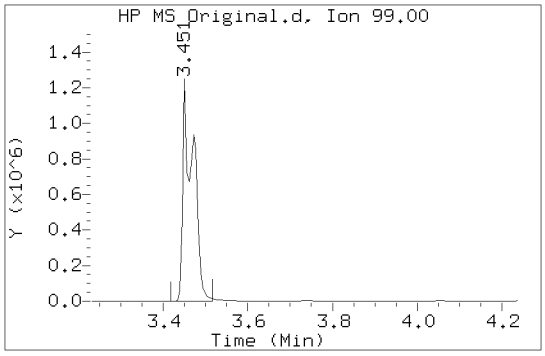
BEFORE
MASS
97
AREA
4496368
HEIGHT
2419712
01-Jul-2024
18:59



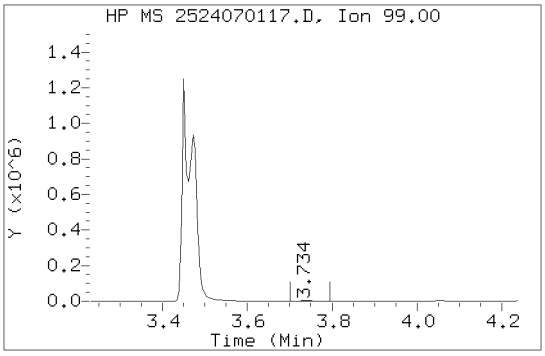
AFTER
MASS
97
AREA
12016
HEIGHT
7848
02-Jul-2024
13:22



BEFORE
MASS
99
AREA
2124651
HEIGHT
1249792
01-Jul-2024
18:59



AFTER
MASS
99
AREA
7418
HEIGHT
4230
02-Jul-2024
13:22

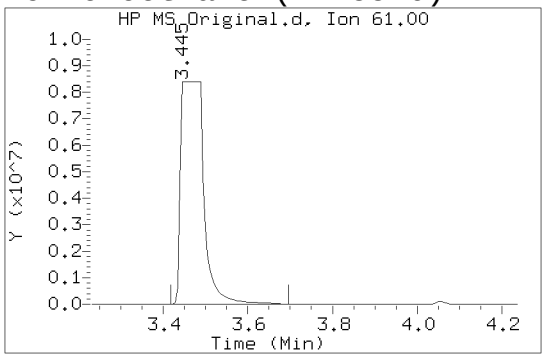


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070117.D
Inj Date : 01-JUL-2024 15:19
InstruID : ms25.i
LabSampID : 3366026010

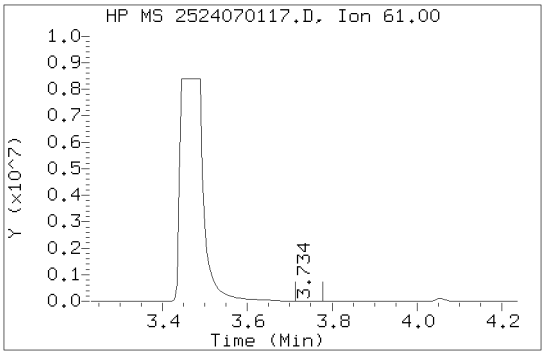
1,1,1-Trichloroethane (71-55-6)

Reason Code: H

BEFORE
MASS
61
AREA
31838644
HEIGHT
8386854
01-Jul-2024
18:59



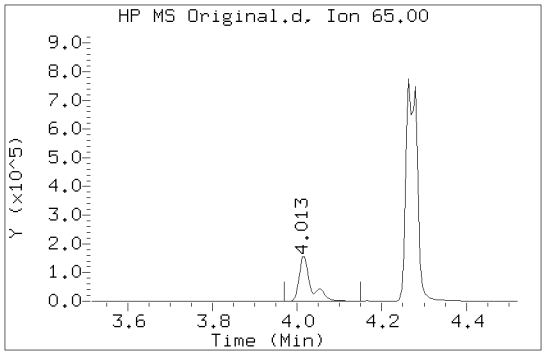
AFTER
MASS
61
AREA
7249
HEIGHT
4489
02-Jul-2024
13:22



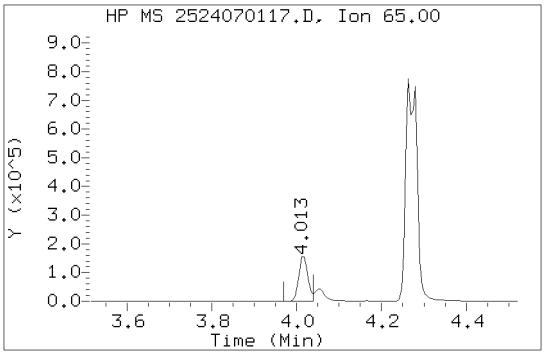
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

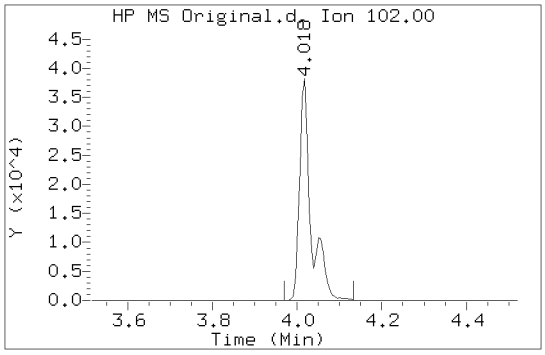
BEFORE
MASS
65
AREA
306179
HEIGHT
155712
01-Jul-2024
18:59



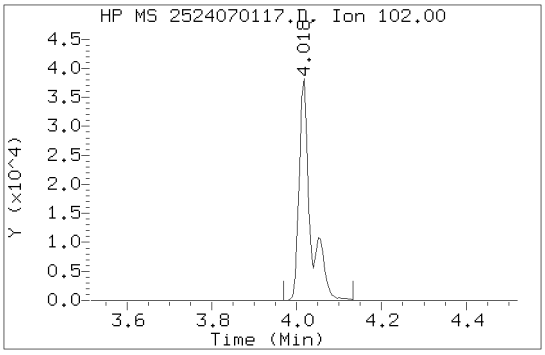
AFTER
MASS
65
AREA
238852
HEIGHT
155712
02-Jul-2024
13:22



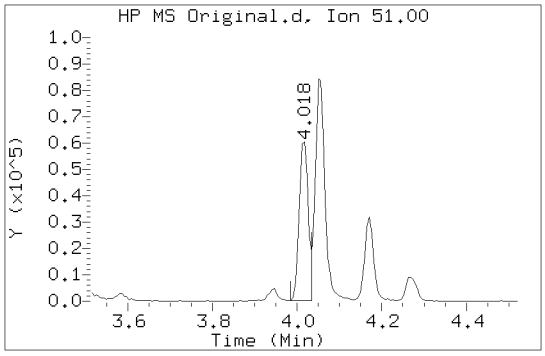
BEFORE
MASS
102
AREA
72530
HEIGHT
38200
01-Jul-2024
18:59



AFTER
MASS
102
AREA
72530
HEIGHT
38200
02-Jul-2024
13:22



BEFORE
MASS
51
AREA
92189
HEIGHT
60156
01-Jul-2024
18:59



AFTER
MASS
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AREA
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HEIGHT
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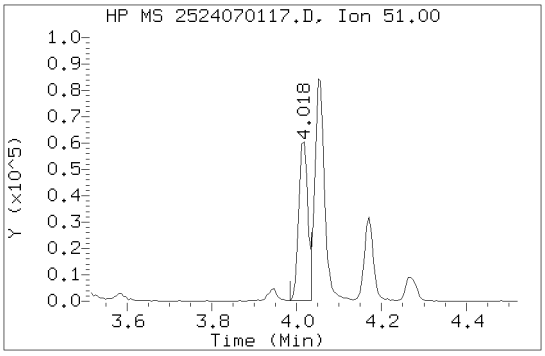
02-Jul-2024
13:22



UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:22
Client ID: ICT12D_062024_a
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407011
Inj Date: 01-JUL-2024 15:19
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
tert-Amyl Ethylether
2-Butanone
Carbon Tetrachloride
1-Chlorohexane
1,3-Dichlorobenzene
Dichlorofluoromethane
trans-1,3-Dichloropropene
Ethyl methacrylate
2-Hexanone
Methacrylonitrile
2-Nitropropane
1,1,1,2-Tetrachloroethane
tert-Amyl Alcohol
Bromodichloromethane
sec-Butylbenzene
1-Chlorobutane
1,1-Dichloro-2-propanone
1,4-Dichlorobenzene
cis-1,3-Dichloropropene
Ethyl Ether
Ethyl tert-butyl ether
Isobutyl alcohol
Methyl cyclohexane
n-Propylbenzene

Data File: 2524070118.D Page 1
Report Date: 02-Jul-2024 13:23

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D
Lab Smp Id: 3366026011 Client Smp ID: ICT12E_062024
Inj Date : 01-JUL-2024 15:40
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026011;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
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Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.400)	1736459	144.274	144.274	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.413	2.413	(0.567)	3206877	346.446	346.446(A)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.569)	6891001	1058.42	1058.42(A)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.741	2.741	(0.644)	1487484	196.728	196.728	
18 Acetone	58	2.757	2.752	(0.648)	26896	32.1064	32.1064	
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.664)	208789	23.0295	23.0295	
21 Hexane	57	Compound Not Detected.						

Data File: 2524070118.D
Report Date: 02-Jul-2024 13:23

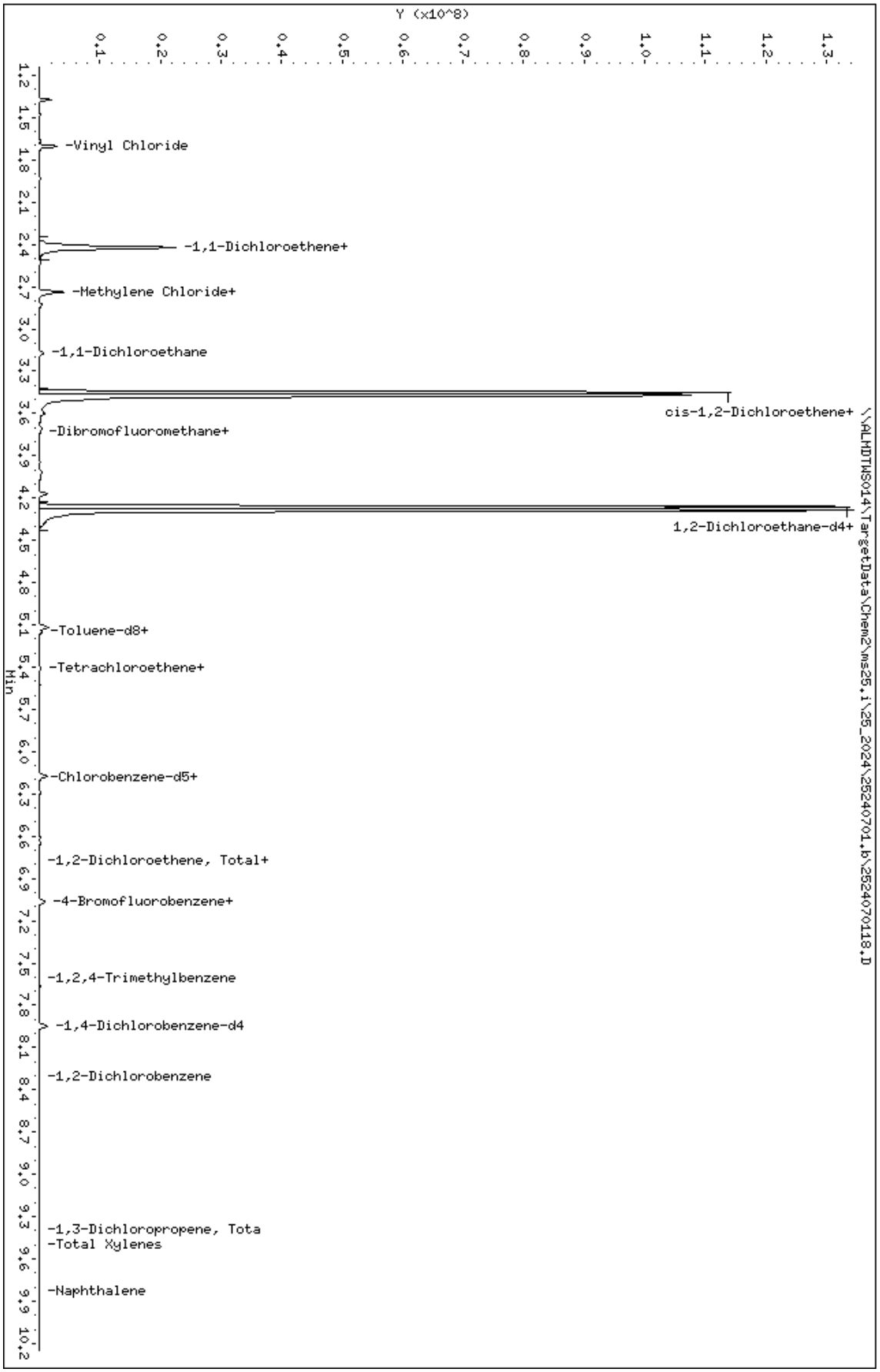
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	3.172	3.166	(0.745)	557497	45.1357	45.1357	
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						RT
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.445	3.461	(0.809)	30685991	3338.11	3338.11(AQ)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				30894780	3361.14	3361.14	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	3.592	3.586	(0.844)	37965	3.44196	3.44196(Q)	
	36 Chloroform	83	3.603	3.597	(0.864)	337627	25.3209	25.3209(M)	H
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						RT
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.871)	212691	28.0146	28.0146	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	61650	5.94015	5.94015(M)	H
	43 2-Butanone	72	Compound Not Detected.						IBDL
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						RT
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	3.941	3.941	(0.926)	101033	3.34829	3.34829	
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.018	(0.944)	255836	31.9664	31.9664	
	54 Isobutyl alcohol	42	Compound Not Detected.						RT
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	962210	30.0000	(M)	H
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.252	4.269	(0.999)	29557486	3870.41	3870.41(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						RT
	59 tert-Amyl Ethylether	59	Compound Not Detected.						RT
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						RT
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	860513	29.6062	29.6062	
	69 Toluene	92	5.152	5.152	(0.835)	126797	6.88284	6.88284	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						RT
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	6378	1.88285	1.88285(a)	
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						RT
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	51818	7.72462	7.72462	
	76 Ethyl methacrylate	69	Compound Not Detected.						RT

Data File: 2524070118.D Page 3
Report Date: 02-Jul-2024 13:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	27073	4.78311	4.78311	
78	Chlorodibromomethane	129	Compound Not Detected.						
79	1,3-Dichloropropane	76	Compound Not Detected.						
80	1,2-Dibromoethane	107	Compound Not Detected.						
81	2-Hexanone	43	Compound Not Detected.						SPC
82	1-Chlorohexane	91	Compound Not Detected.						RT
* 83	Chlorobenzene-d5	82	6.173	6.173	(1.000)	367113	30.0000		
85	Ethylbenzene	106	6.189	6.189	(1.003)	31078	2.70464	2.70464	
84	Chlorobenzene	112	6.184	6.184	(1.002)	3890	0.20721	0.207207(a)	
86	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
87	mp-Xylene	106	6.293	6.287	(1.019)	58550	3.73558	3.73558	
M 120	1,3-Dichloropropene, Total	75	Compound Not Detected.						
88	o-Xylene	106	6.609	6.609	(1.071)	42971	3.43954	3.43954	
89	Styrene	104	6.648	6.648	(0.836)	131796	7.20147	7.20147	
90	Bromoform	173	Compound Not Detected.						
91	Isopropylbenzene	105	6.839	6.839	(0.860)	8414	0.45508	0.455076(a)	
$ 92	4-Bromofluorobenzene	174	7.068	7.068	(0.889)	263333	29.6821	29.6821	
M 121	TOTAL XYLENES	106				101521	7.17511	7.17511	
94	n-Propylbenzene	120	Compound Not Detected.						RT
93	Bromobenzene	156	Compound Not Detected.						
95	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
97	1,3,5-Trimethylbenzene	105	7.302	7.302	(0.918)	12328	0.57132	0.571325(a)	
96	o-Chlorotoluene	91	Compound Not Detected.						
98	1,2,3-Trichloropropane	110	Compound Not Detected.						
99	trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
101	p-Chlorotoluene	91	Compound Not Detected.						
102	tert-Butylbenzene	134	Compound Not Detected.						
103	Pentachloroethane	117	Compound Not Detected.						
104	1,2,4-Trimethylbenzene	105	7.613	7.613	(0.957)	42344	1.70653	1.70653	
105	sec-Butylbenzene	105	Compound Not Detected.						RT
106	p-Isopropyltoluene	134	Compound Not Detected.						
107	1,3-Dichlorobenzene	146	Compound Not Detected.						RT
* 108	1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	320689	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	Compound Not Detected.						RT
111	n-Butylbenzene	134	Compound Not Detected.						
110	Benzyl Chloride	126	Compound Not Detected.						
112	Hexachloroethane	117	Compound Not Detected.						
113	1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	9884	0.81231	0.812313(a)	
114	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
115	Nitrobenzene	77	Compound Not Detected.						
116	Hexachlorobutadiene	225	Compound Not Detected.						
117	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
118	Naphthalene	128	9.829	9.829	(1.236)	28493	1.51554	1.51554(a)	
119	1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.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0.9
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1.2
1.3
Min
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
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7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Vinyl Chloride
-1,1-Dichloroethene+
-Methylene Chloride+
-1,1-Dichloroethane
cis-1,2-Dichloroethene+
-Dibromofluoromethane+
1,2-Dichloroethane-d4+
-Toluene-d8+
-Tetrachloroethene+
-Chlorobenzene-d5+
-1,2-Dichloroethene, Total+
-4-Bromofluorobenzene+
-1,2,4-Trimethylbenzene
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene
-1,3-Dichloropropene, Tota
-Total Xylenes
-Naphthalene
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Date : 01-JUL-2024 15:40
Client ID: ICT12E_062024
Sample Info: 336602601;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D

Date : 01-JUL-2024 15:40

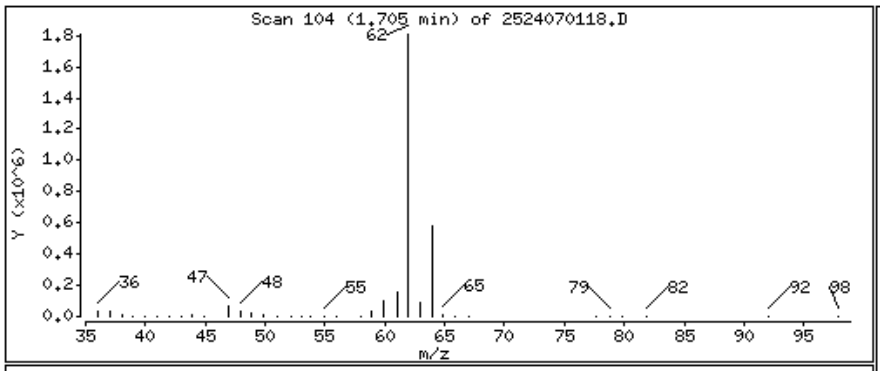
Client ID: ICT12E_062024 Instrument: ms25.i

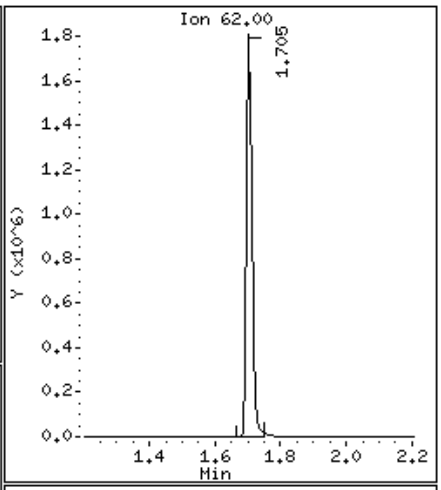
Sample Info: 3366026011;;1;;;;;

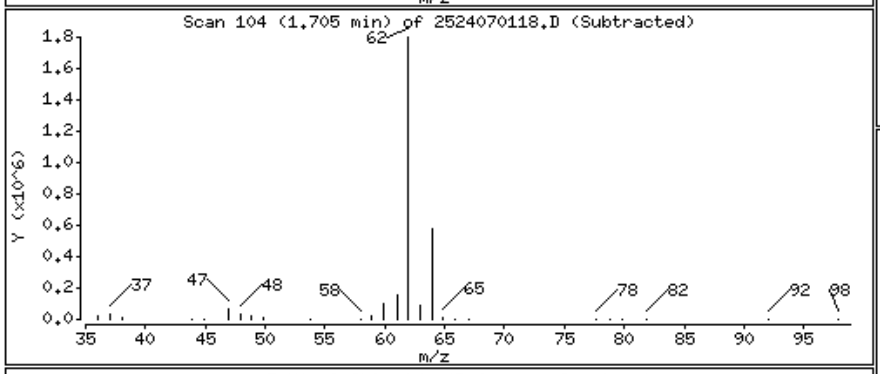
Purge Volume: 5.0 Operator: TMP

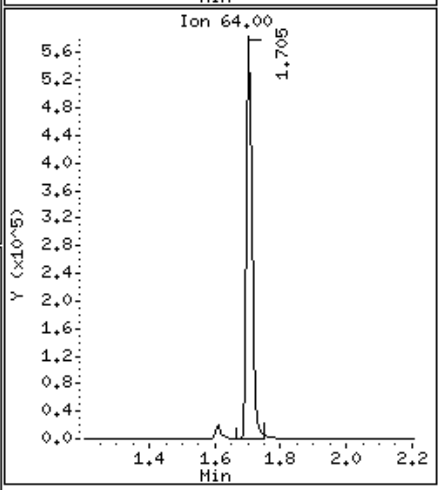
Column phase: DB-VRX Column diameter: 0.25

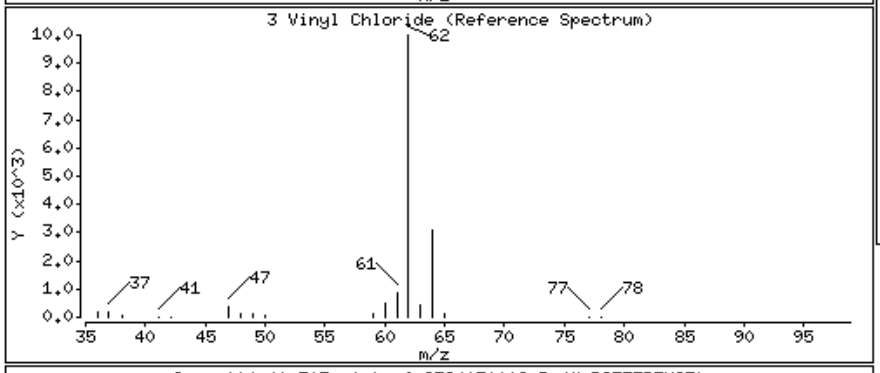
3 Vinyl Chloride Concentration: 144.274 ug/L

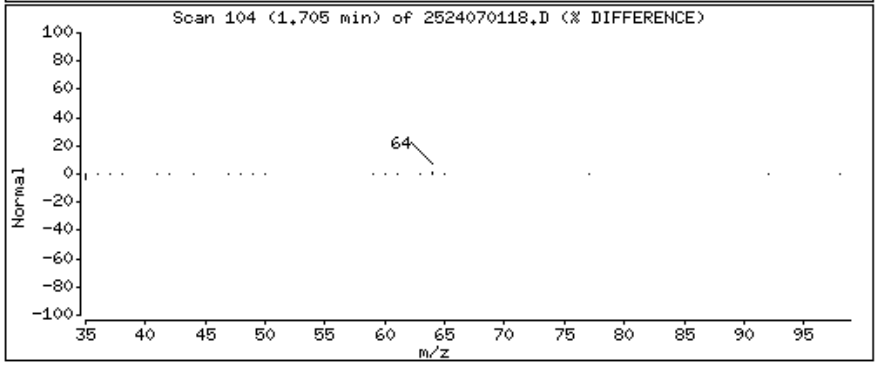












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Date : 01-JUL-2024 15:40

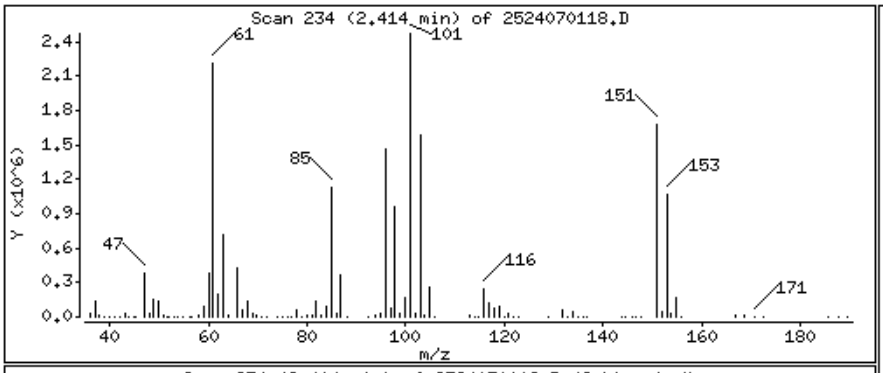
Client ID: ICT12E_062024 Instrument: ms25.i

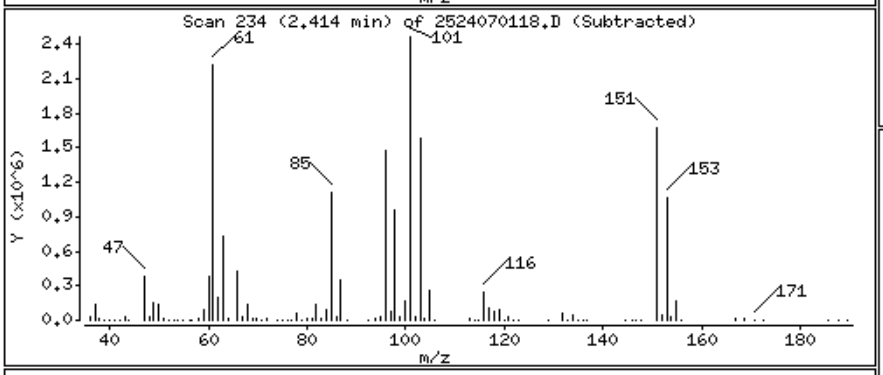
Sample Info: 3366026011;;1;;;;;

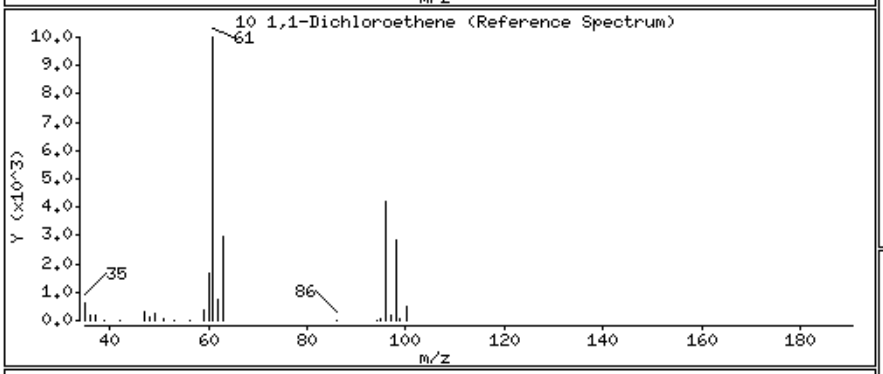
Purge Volume: 5.0 Operator: TMP

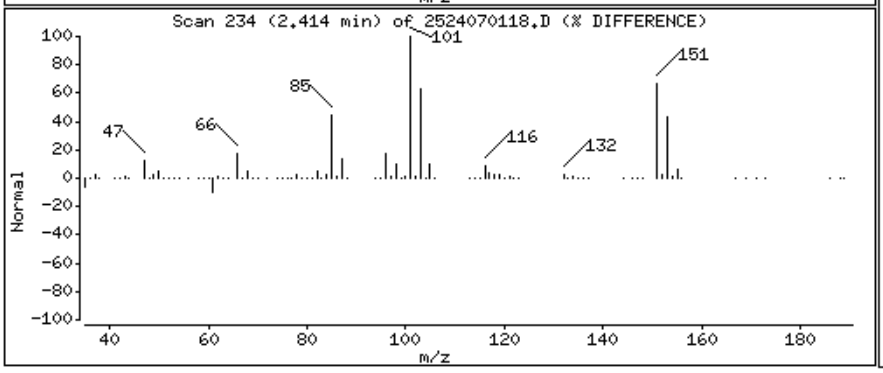
Column phase: DB-VRX Column diameter: 0.25

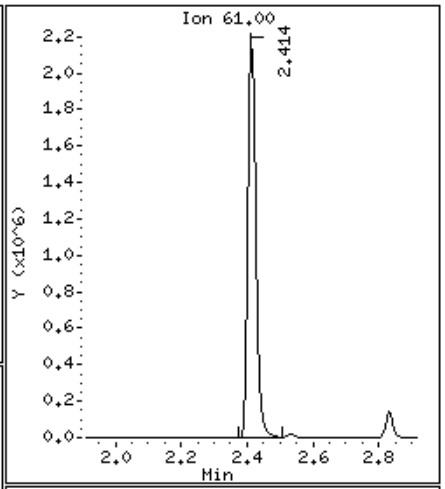
10 1,1-Dichloroethene Concentration: 346.446 ug/L

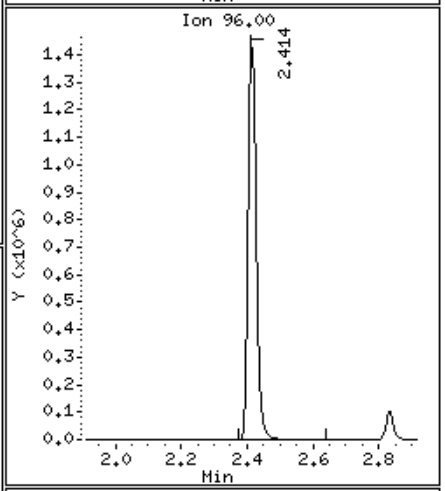


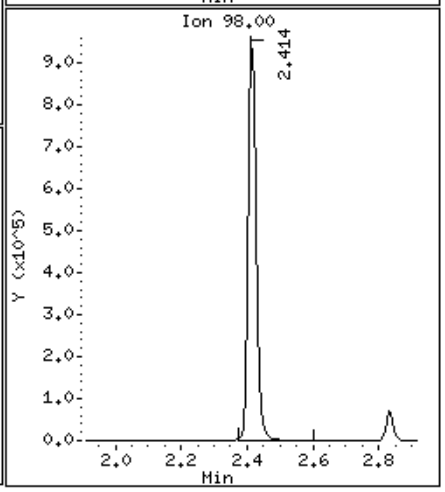












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Date : 01-JUL-2024 15:40

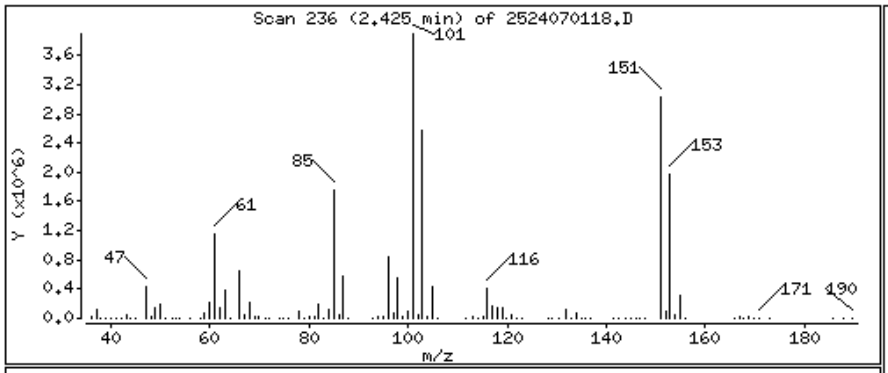
Client ID: ICT12E_062024 Instrument: ms25.i

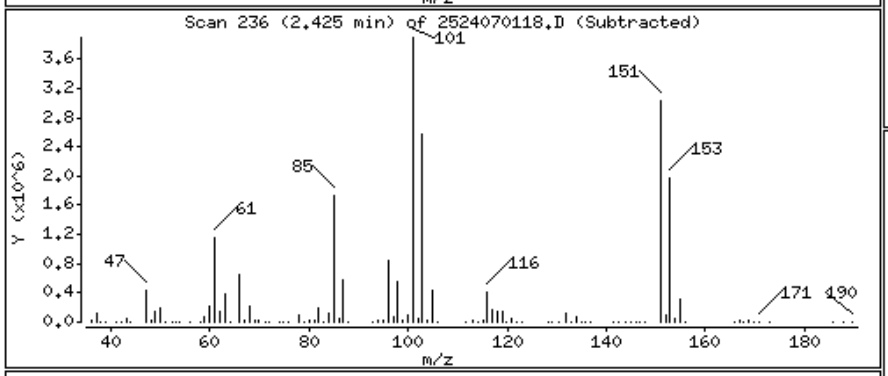
Sample Info: 3366026011;;1;;;;;

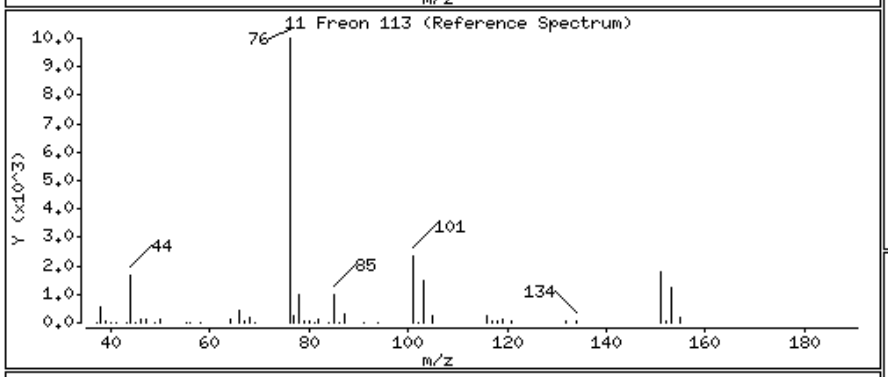
Purge Volume: 5.0 Operator: TMP

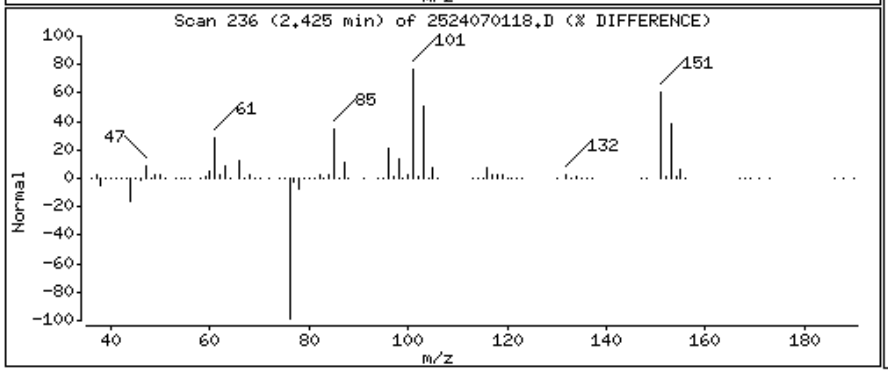
Column phase: DB-VRX Column diameter: 0.25

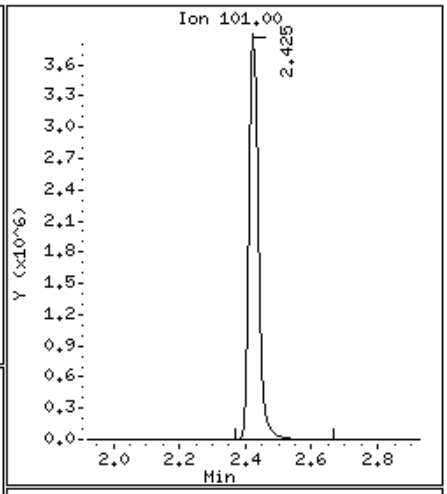
11 Freon 113 Concentration: 1058.42 ug/L

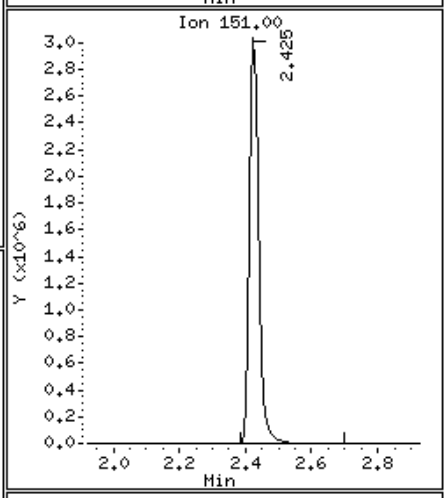


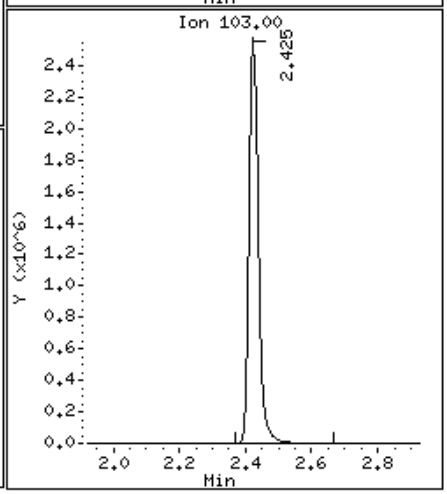












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 5

Date : 01-JUL-2024 15:40

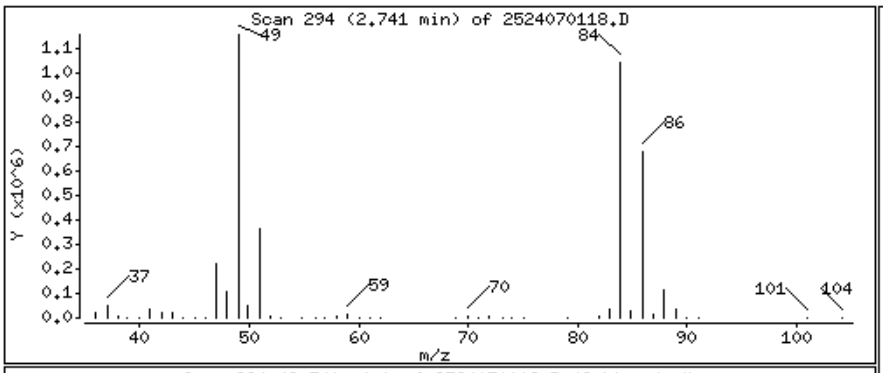
Client ID: ICT12E_062024 Instrument: ms25.i

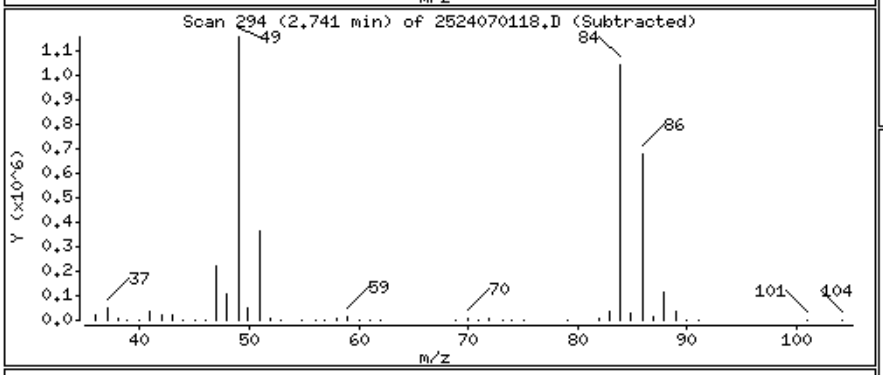
Sample Info: 3366026011;;1;;;;;

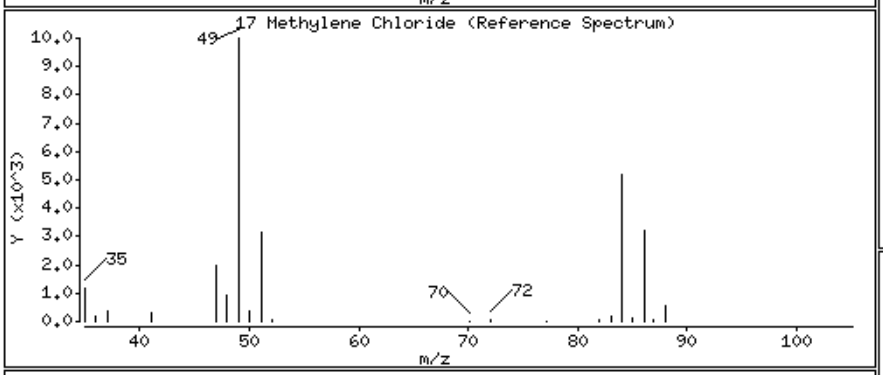
Purge Volume: 5.0 Operator: TMP

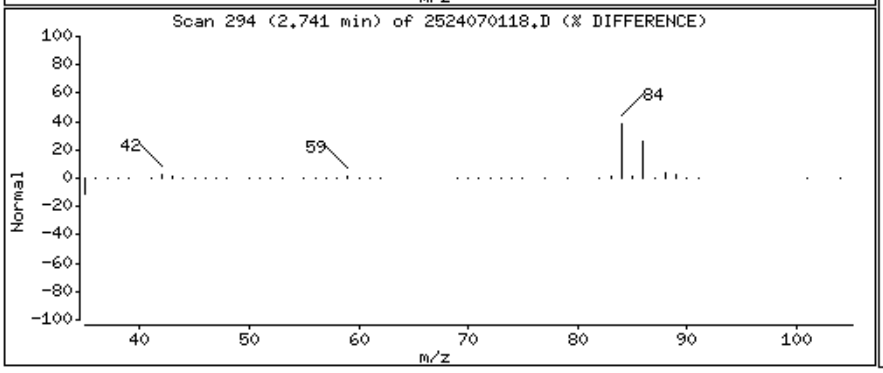
Column phase: DB-VRX Column diameter: 0.25

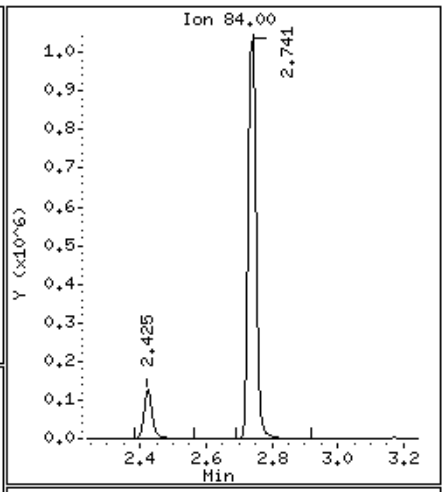
17 Methylene Chloride Concentration: 196.728 ug/L

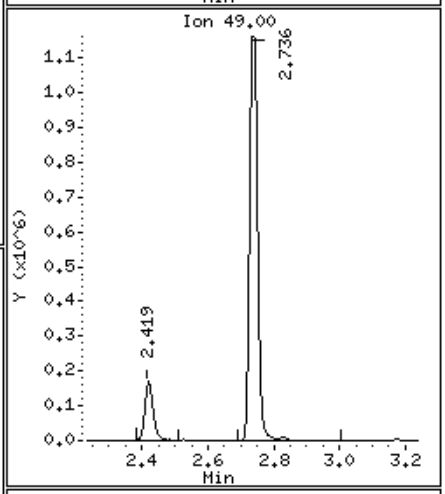


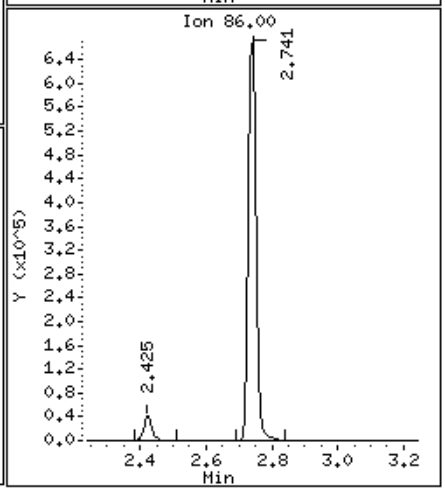












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 6

Date : 01-JUL-2024 15:40

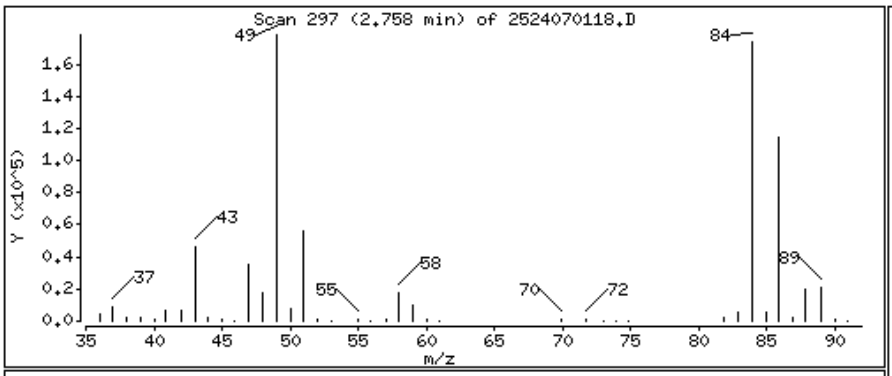
Client ID: ICT12E_062024 Instrument: ms25.i

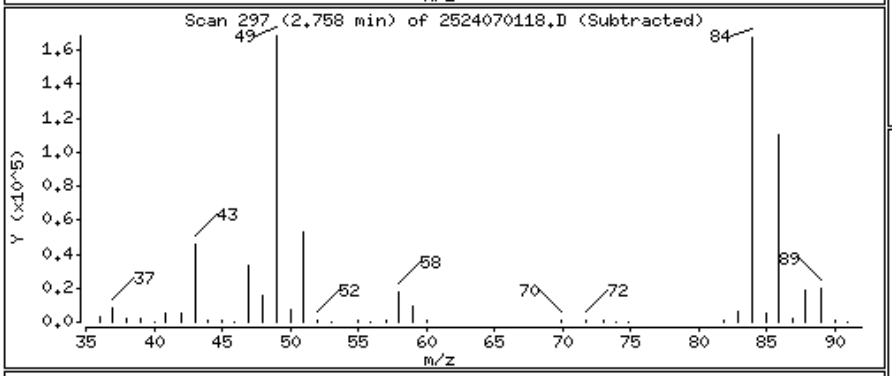
Sample Info: 3366026011;;1;;;;;

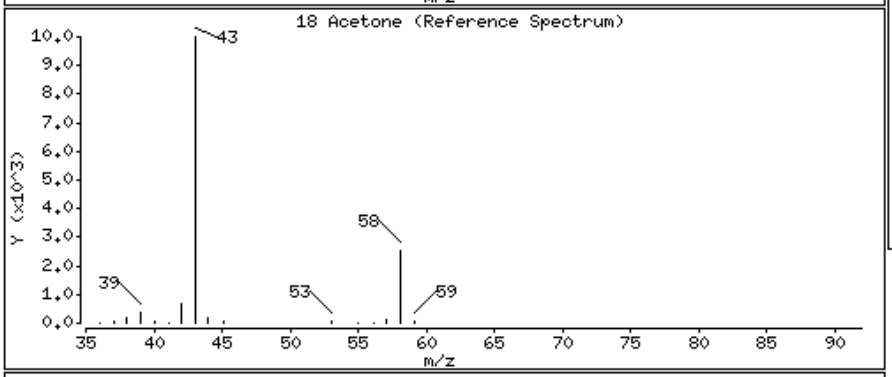
Purge Volume: 5.0 Operator: TMP

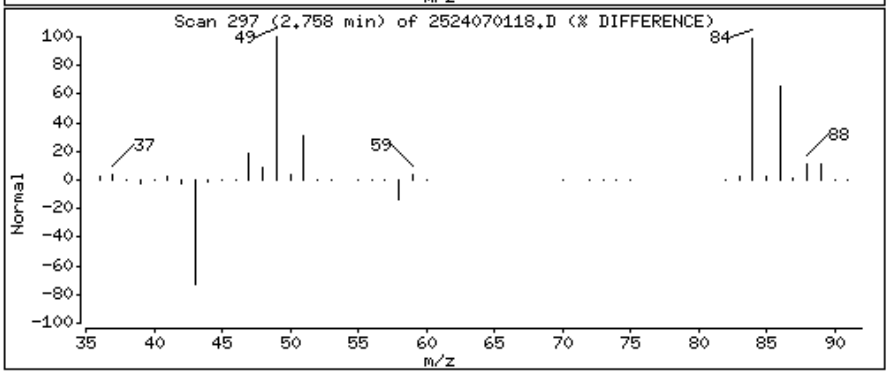
Column phase: DB-VRX Column diameter: 0.25

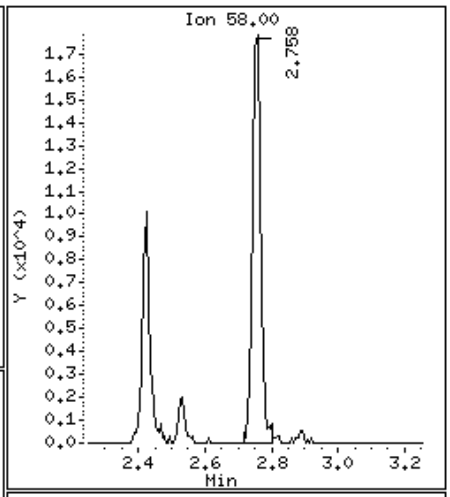
18 Acetone Concentration: 32.1064 ug/L

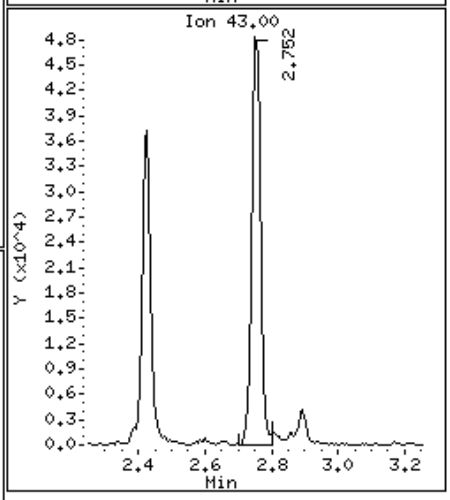












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 7

Date : 01-JUL-2024 15:40

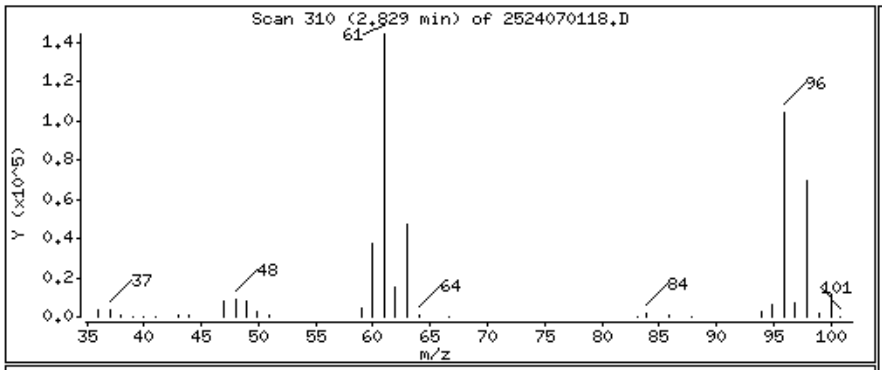
Client ID: ICT12E_062024 Instrument: ms25.i

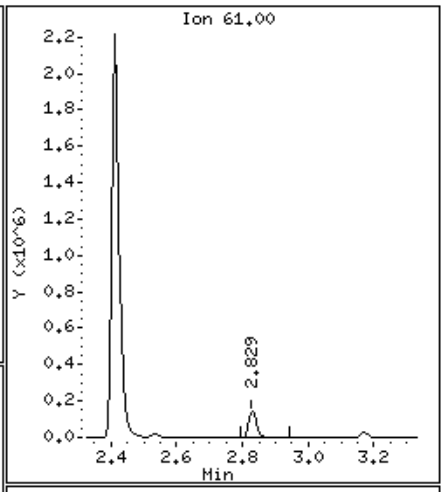
Sample Info: 3366026011;;1;;;;;

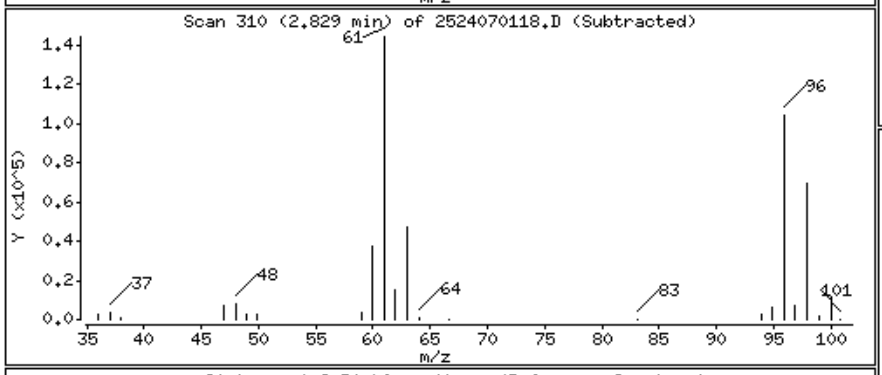
Purge Volume: 5.0 Operator: TMP

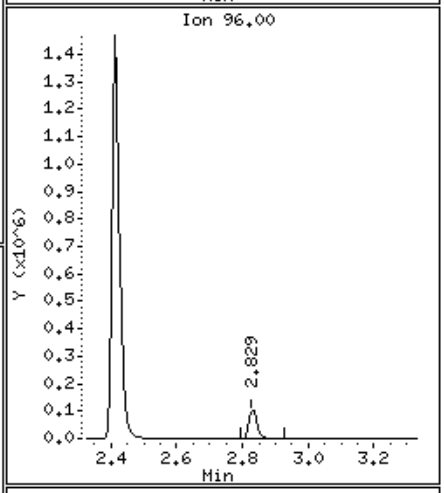
Column phase: DB-VRX Column diameter: 0.25

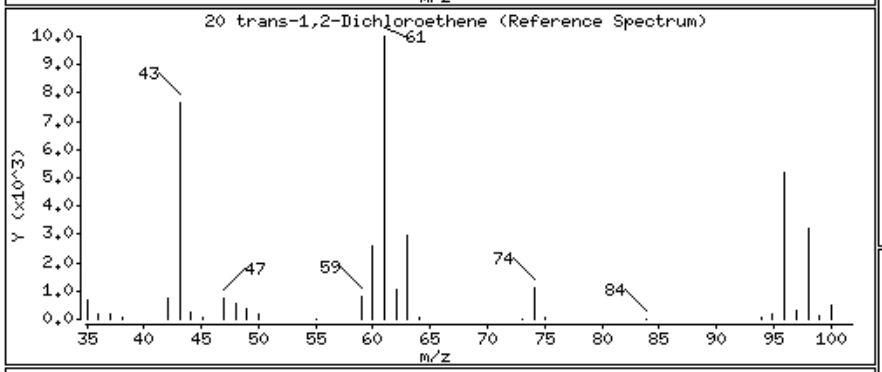
20 trans-1,2-Dichloroethene Concentration: 23.0295 ug/L

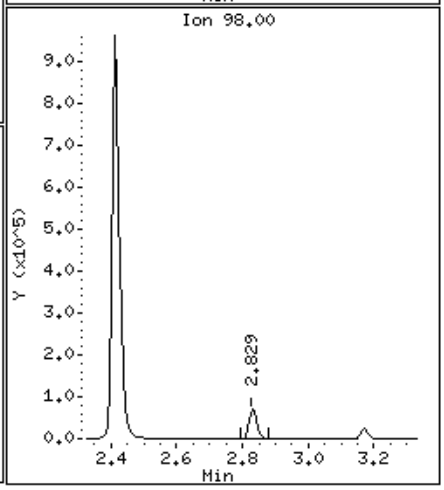


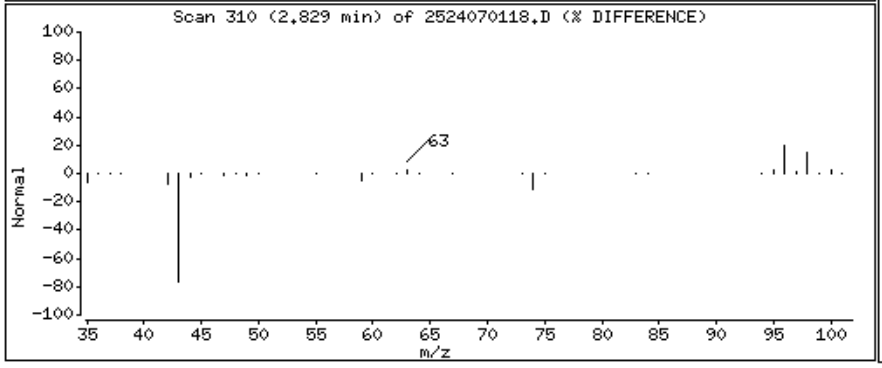












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 8

Date : 01-JUL-2024 15:40

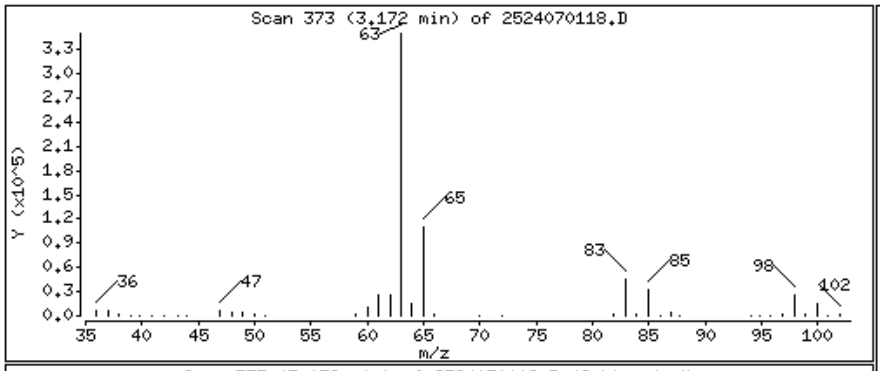
Client ID: ICT12E_062024 Instrument: ms25.i

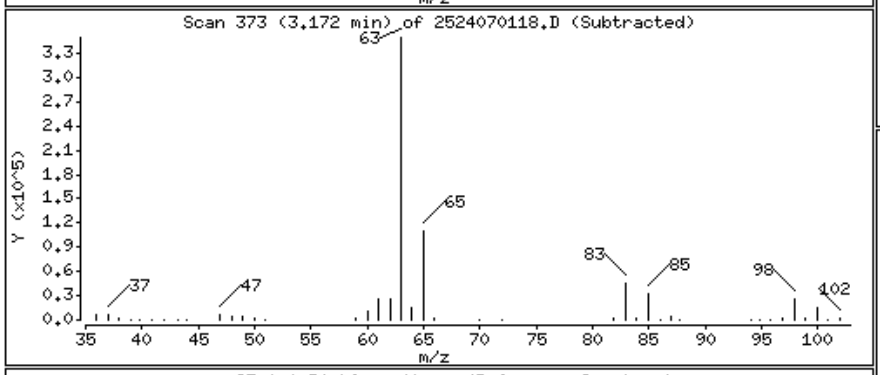
Sample Info: 3366026011;;1;;;;;

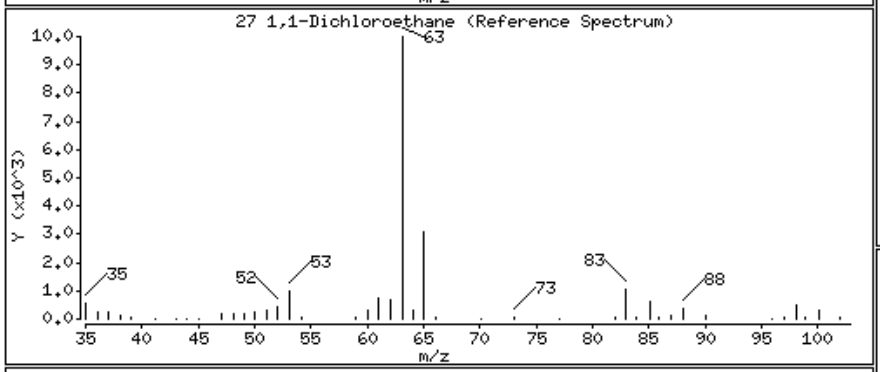
Purge Volume: 5.0 Operator: TMP

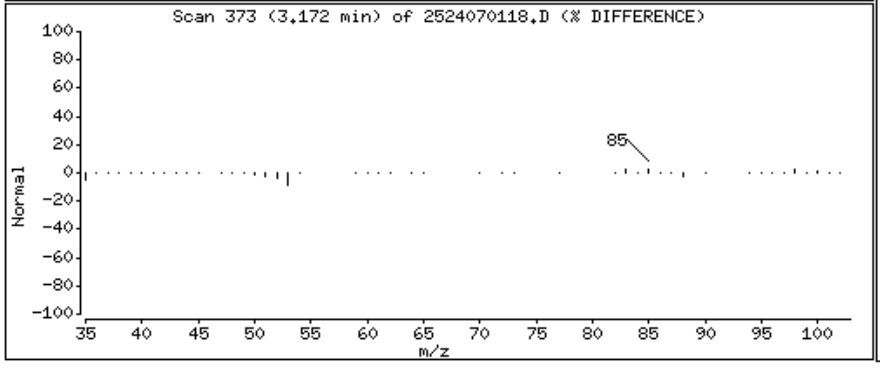
Column phase: DB-VRX Column diameter: 0.25

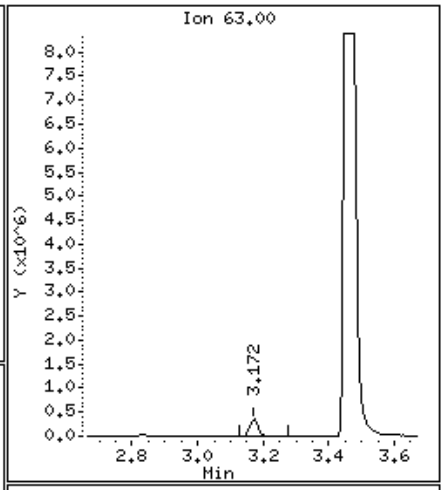
27 1,1-Dichloroethane Concentration: 45.1357 ug/L

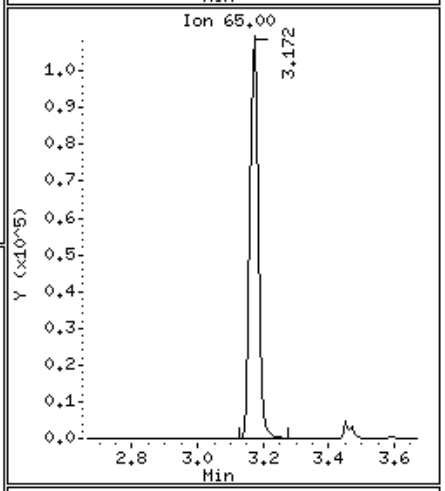


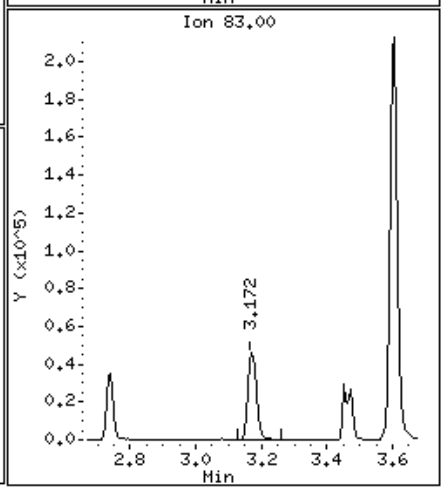












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 9

Date : 01-JUL-2024 15:40

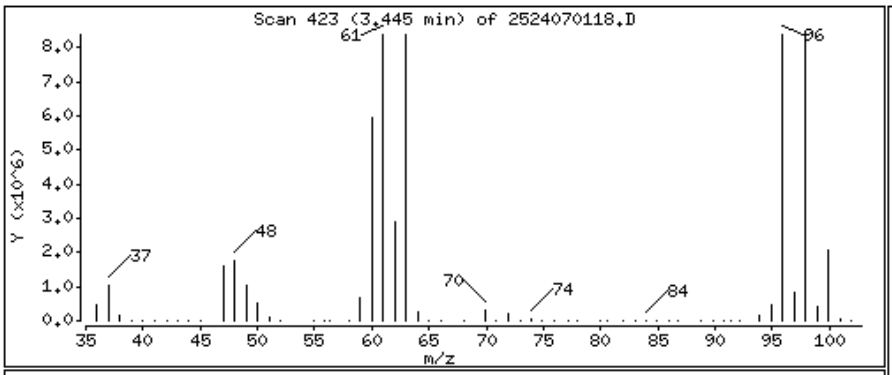
Client ID: ICT12E_062024 Instrument: ms25.i

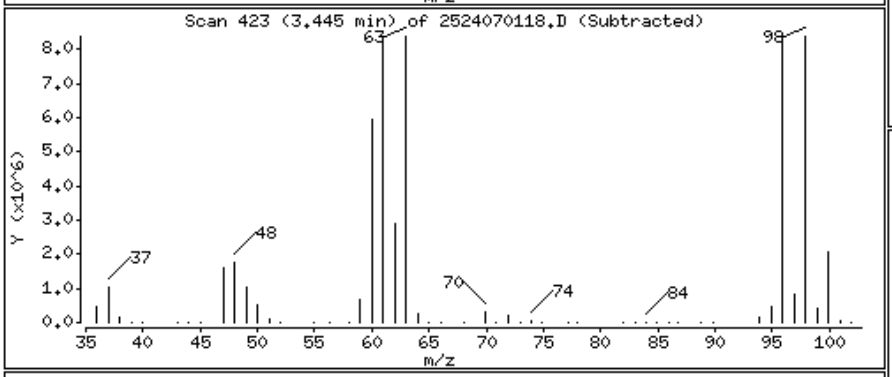
Sample Info: 3366026011;;1;;;;;

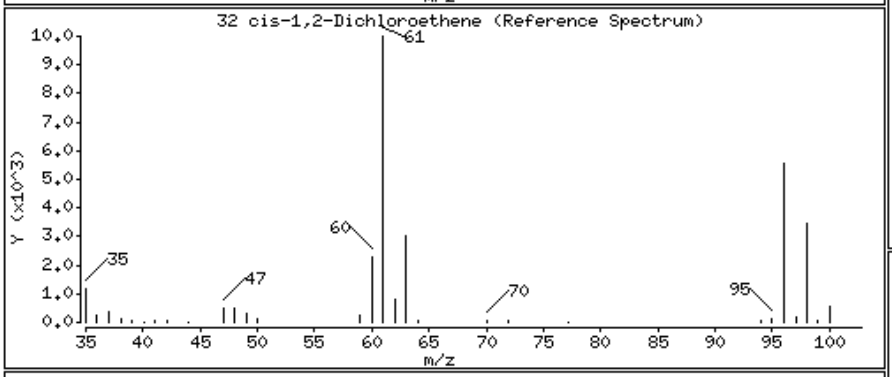
Purge Volume: 5.0 Operator: TMP

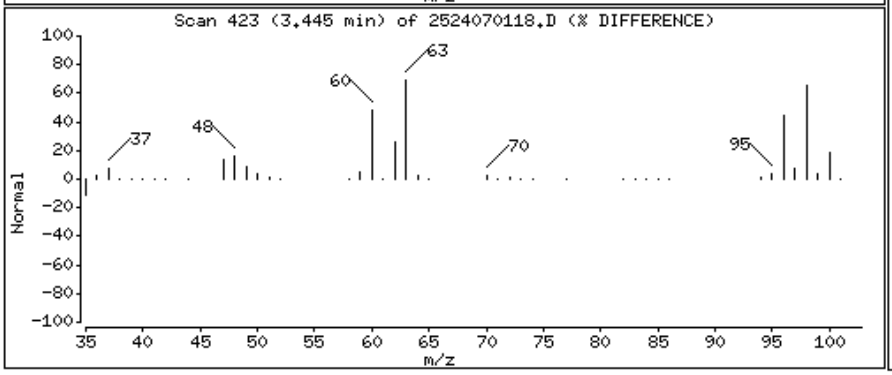
Column phase: DB-VRX Column diameter: 0.25

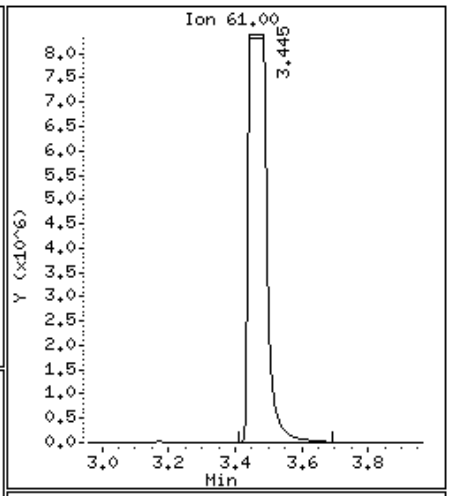
32 cis-1,2-Dichloroethene Concentration: 3338.11 ug/L

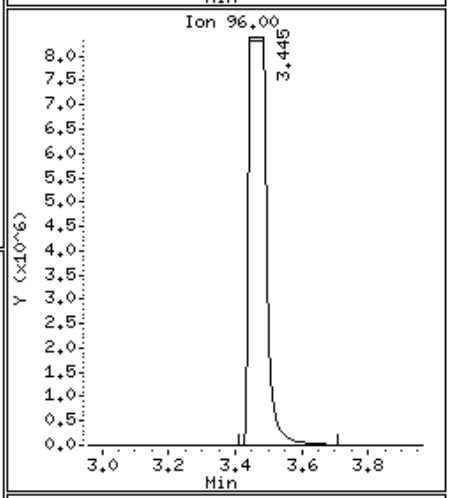


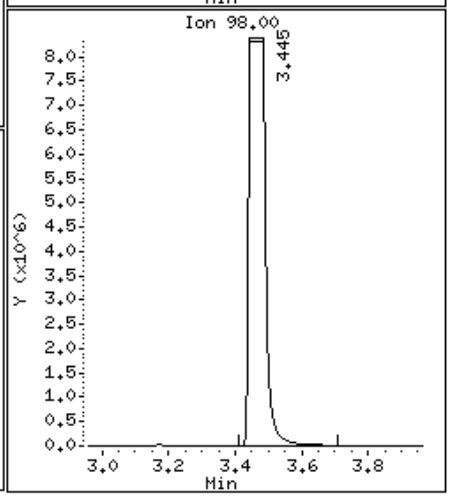












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 10

Date : 01-JUL-2024 15:40

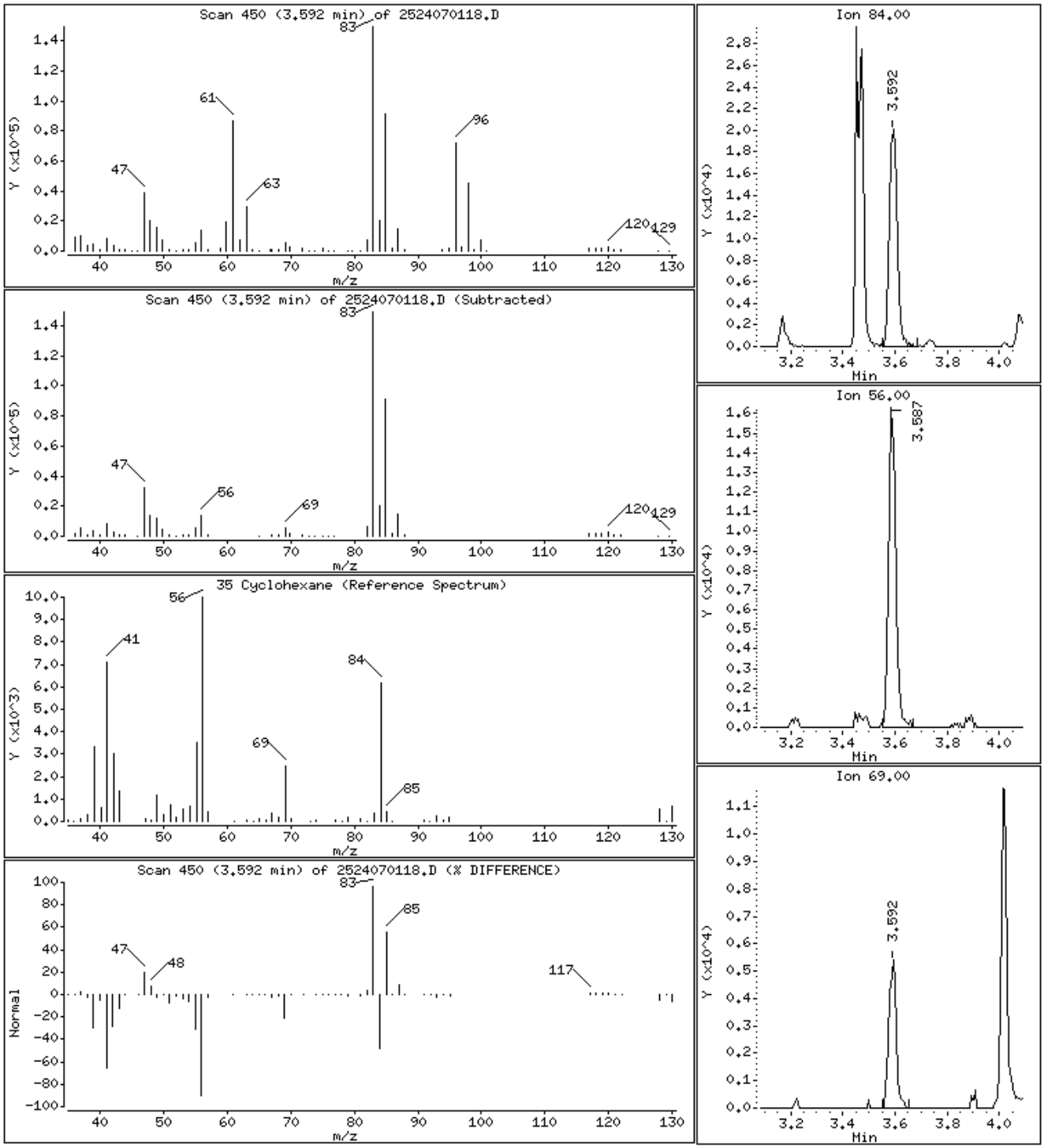
Client ID: ICT12E_062024 Instrument: ms25.i

Sample Info: 3366026011;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

35 Cyclohexane Concentration: 3.44196 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 11

Date : 01-JUL-2024 15:40

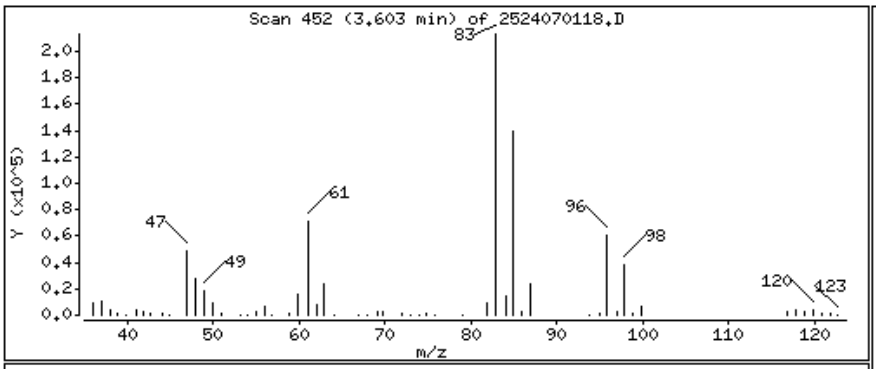
Client ID: ICT12E_062024 Instrument: ms25.i

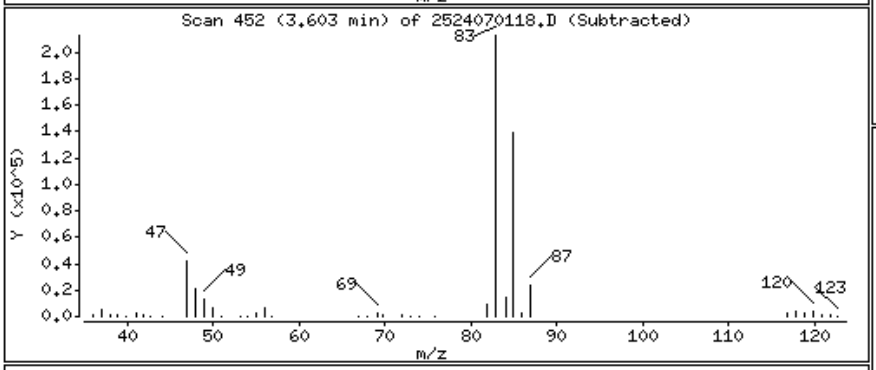
Sample Info: 3366026011;;1;;;;;

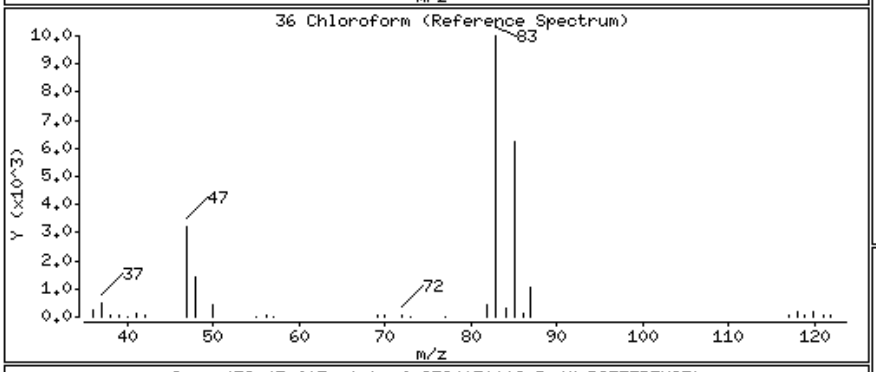
Purge Volume: 5.0 Operator: TMP

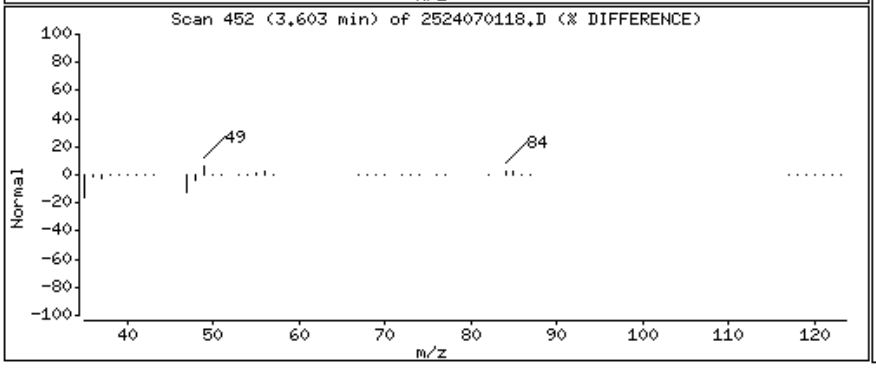
Column phase: DB-VRX Column diameter: 0.25

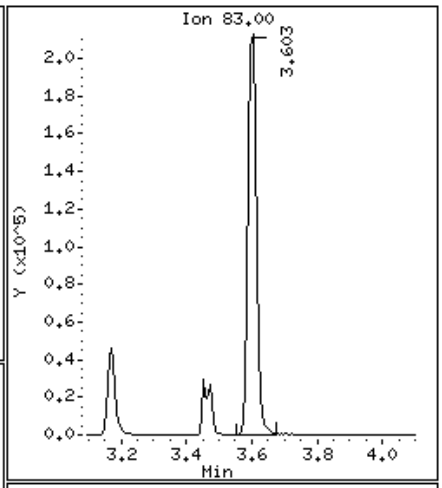
36 Chloroform Concentration: 25.3209 ug/L

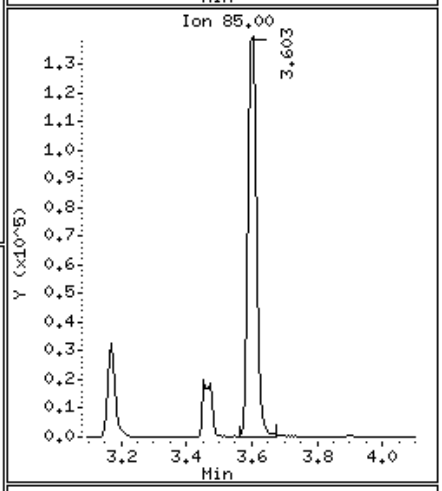


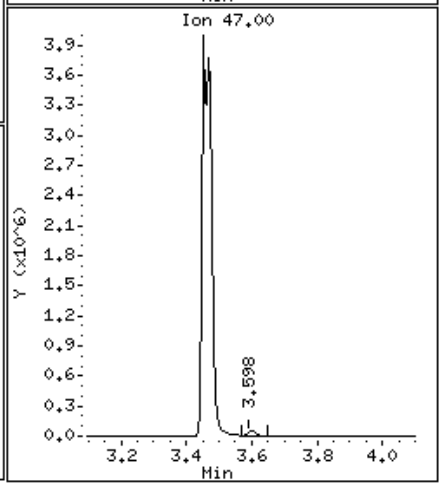












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 12

Date : 01-JUL-2024 15:40

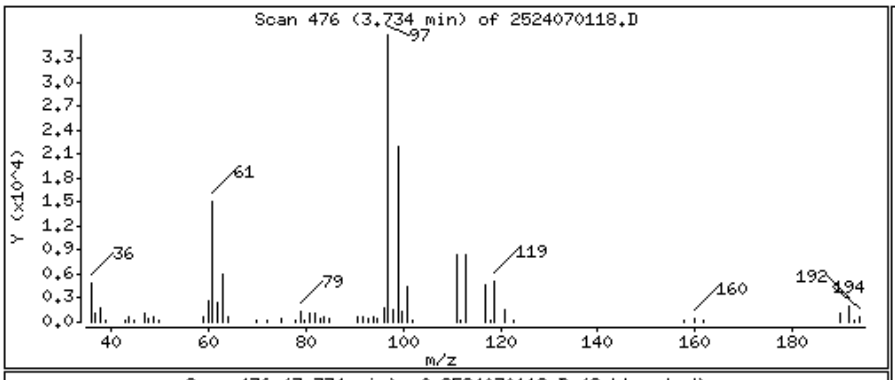
Client ID: ICT12E_062024 Instrument: ms25.i

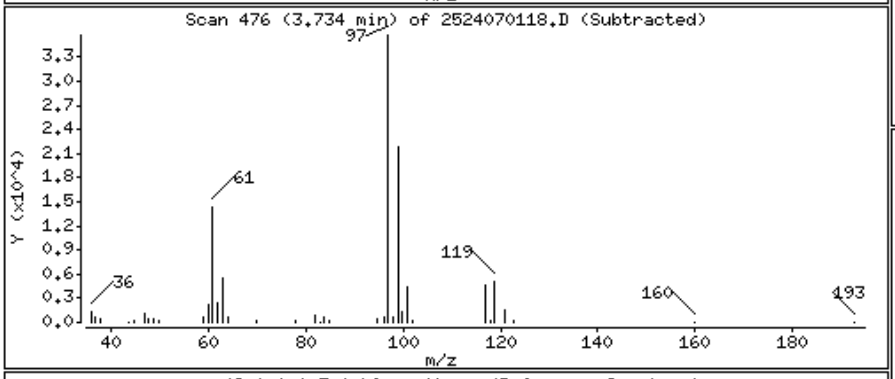
Sample Info: 3366026011;;1;;;;;

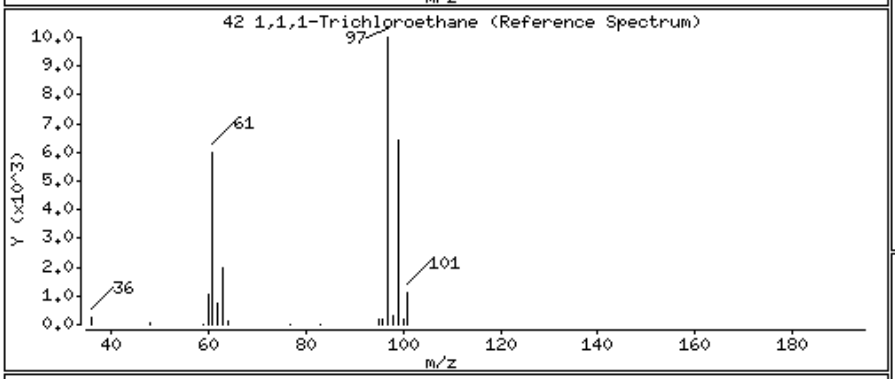
Purge Volume: 5.0 Operator: TMP

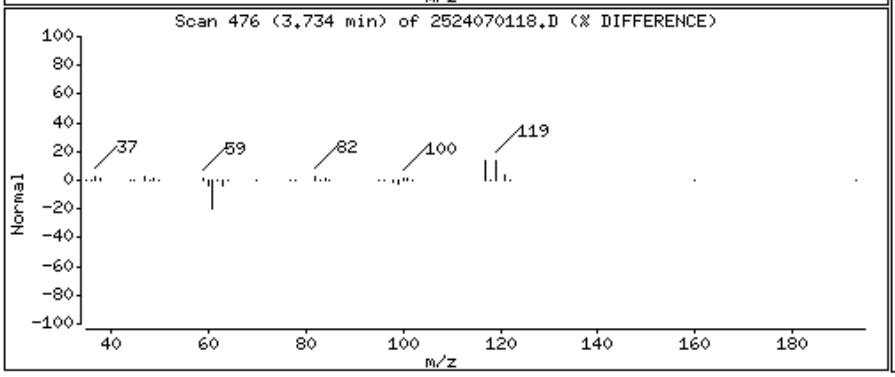
Column phase: DB-VRX Column diameter: 0.25

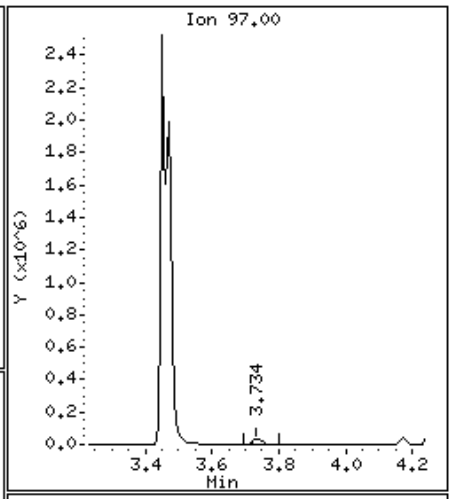
42 1,1,1-Trichloroethane Concentration: 5.94015 ug/L

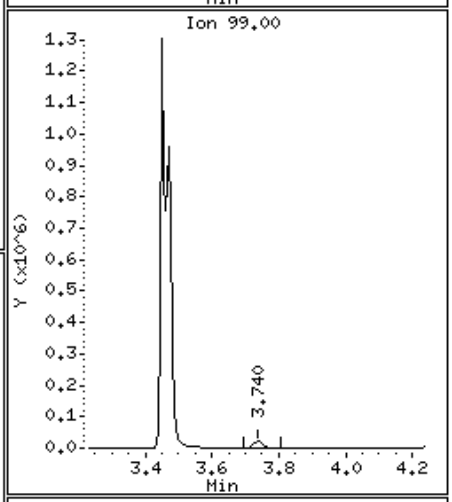


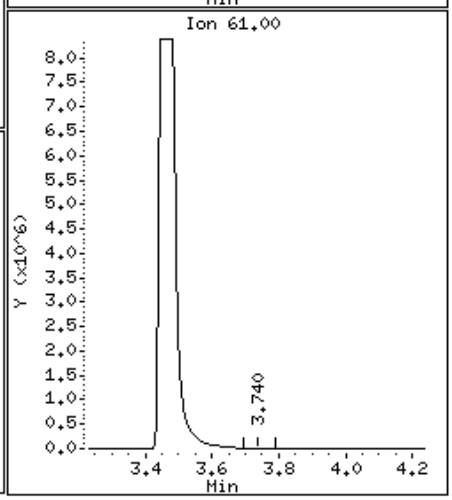












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 13

Date : 01-JUL-2024 15:40

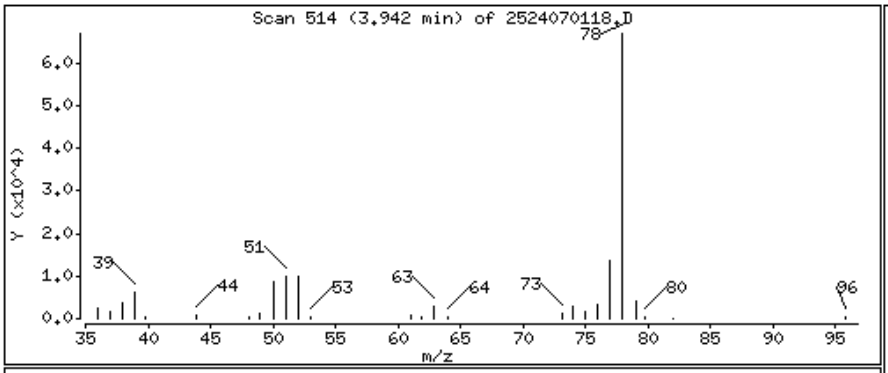
Client ID: ICT12E_062024 Instrument: ms25.i

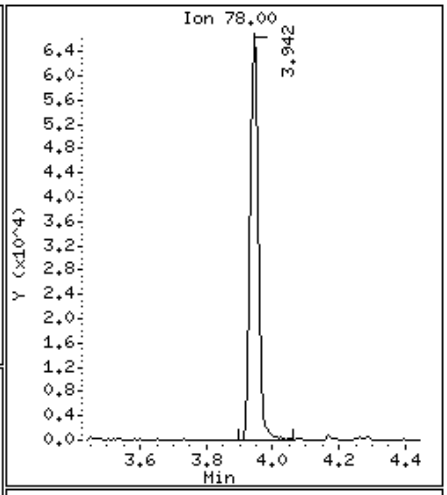
Sample Info: 3366026011;;1;;;;;

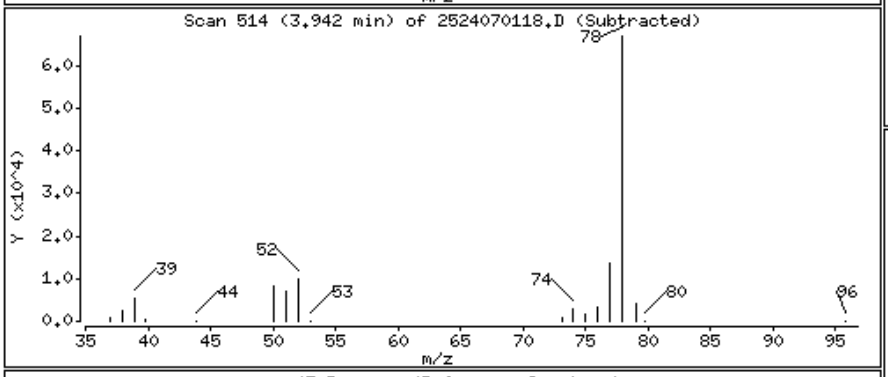
Purge Volume: 5.0 Operator: TMP

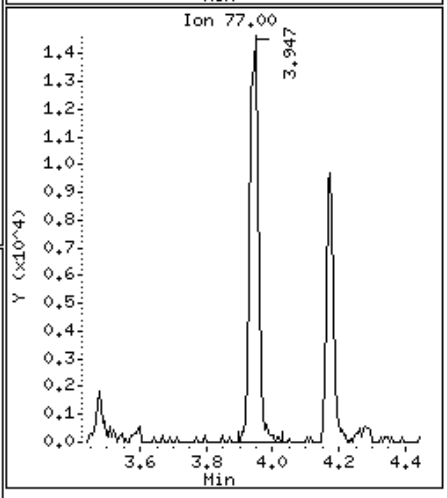
Column phase: DB-VRX Column diameter: 0.25

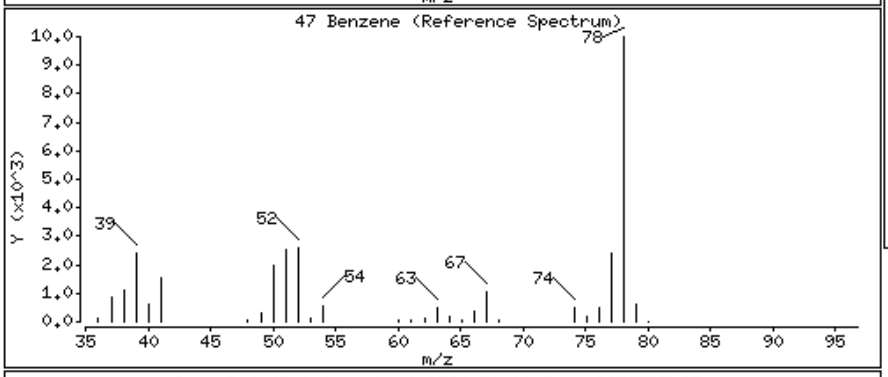
47 Benzene Concentration: 3.34829 ug/L

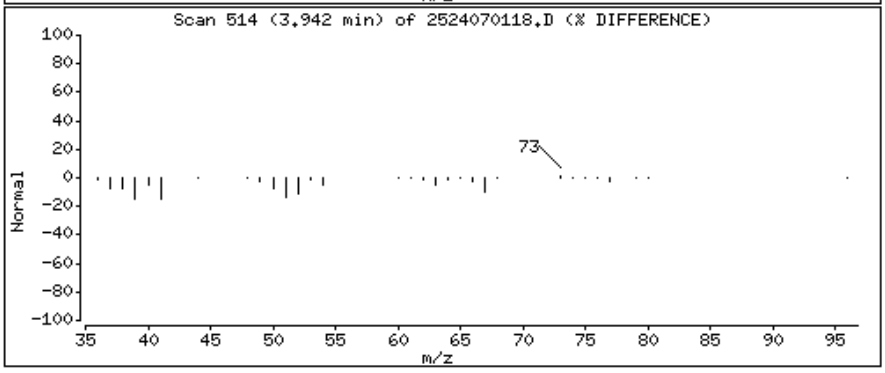












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 14

Date : 01-JUL-2024 15:40

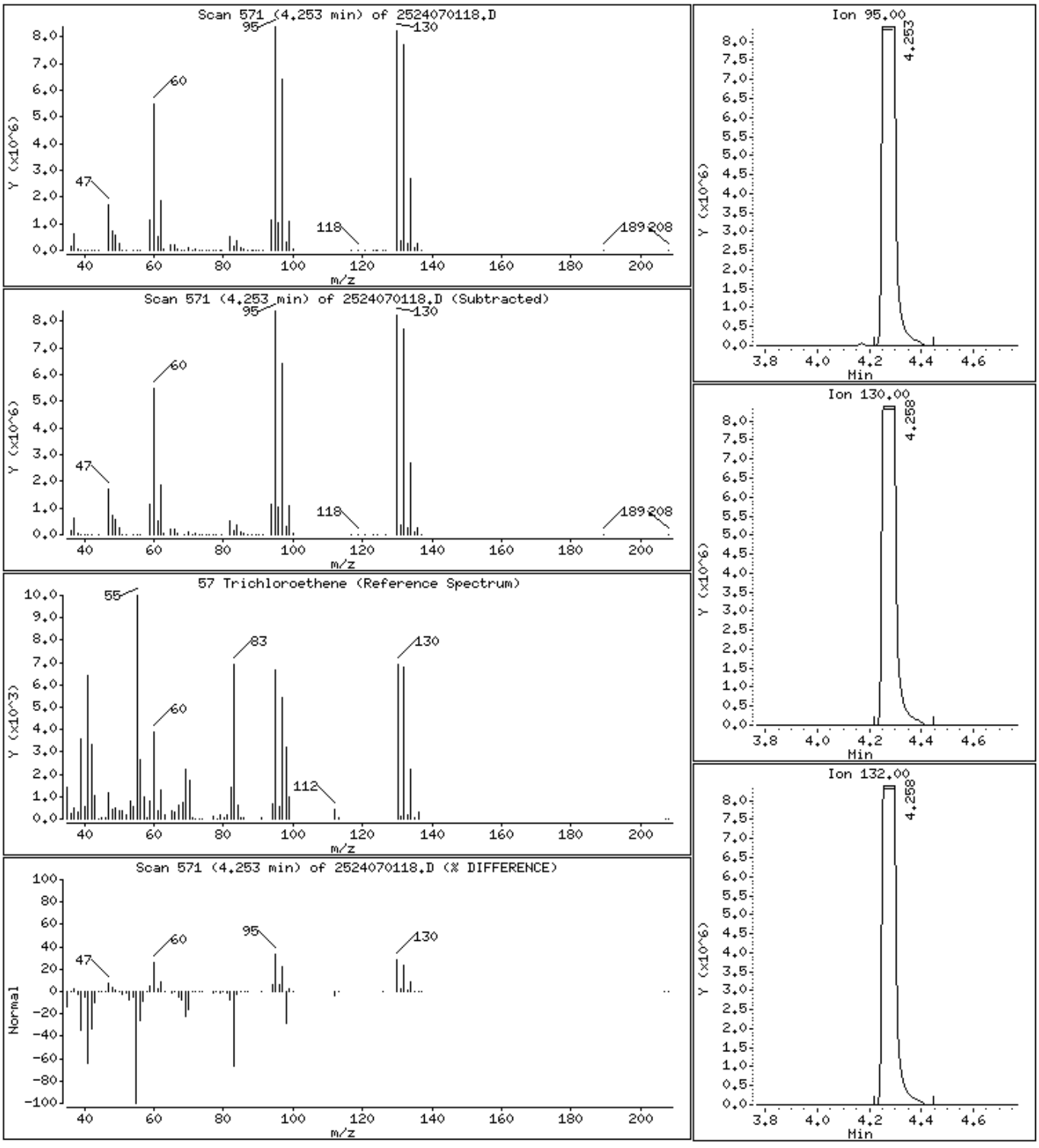
Client ID: ICT12E_062024 Instrument: ms25.i

Sample Info: 3366026011;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 3870.41 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 15

Date : 01-JUL-2024 15:40

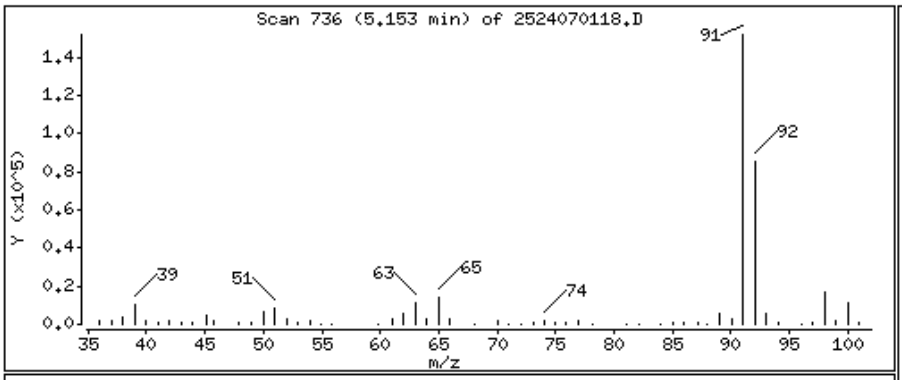
Client ID: ICT12E_062024 Instrument: ms25.i

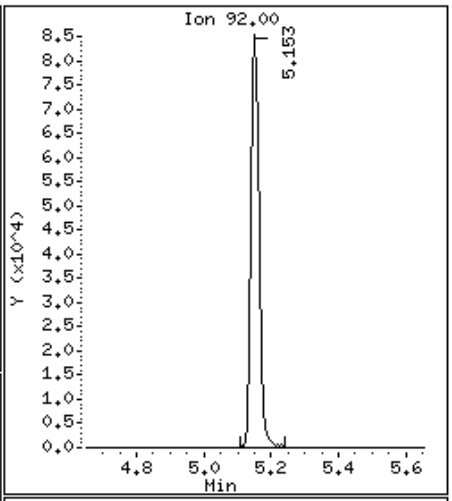
Sample Info: 3366026011;;1;;;;;

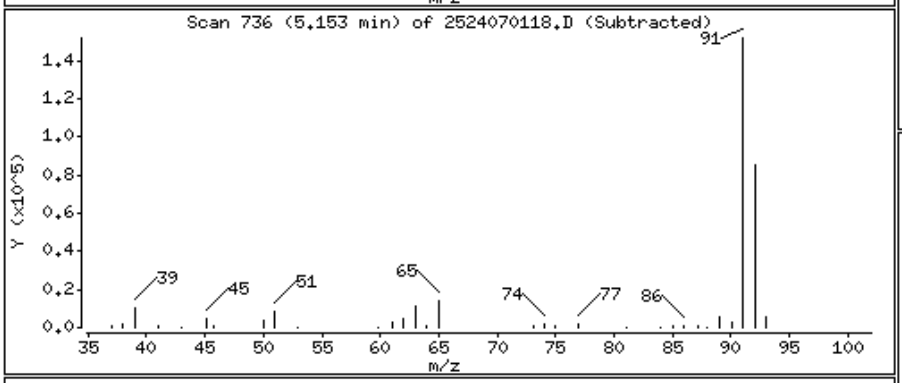
Purge Volume: 5.0 Operator: TMP

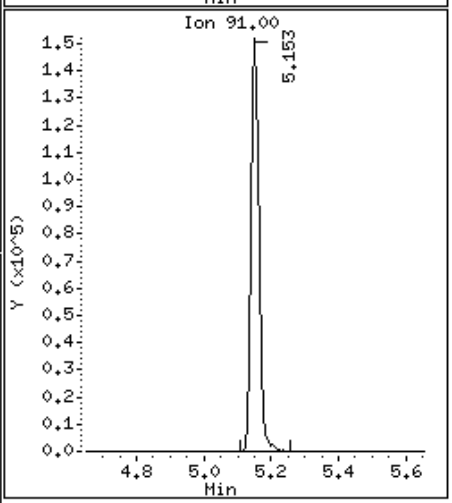
Column phase: DB-VRX Column diameter: 0.25

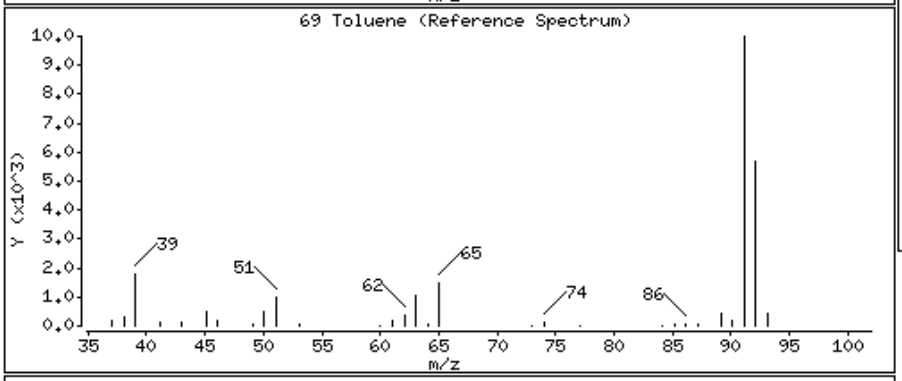
69 Toluene Concentration: 6.88284 ug/L

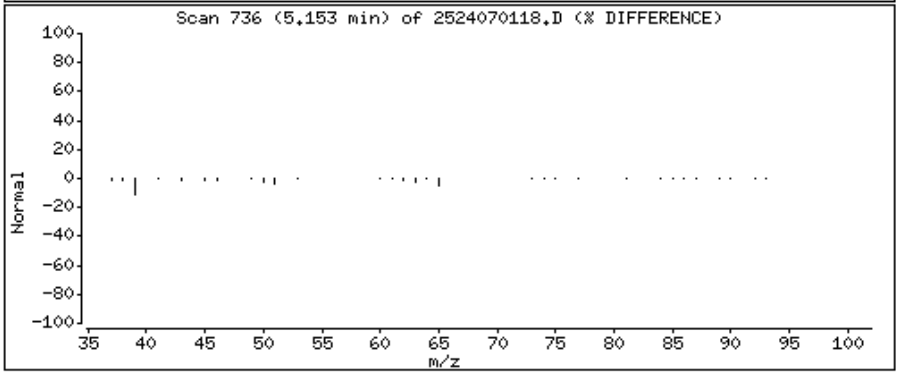












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 16

Date : 01-JUL-2024 15:40

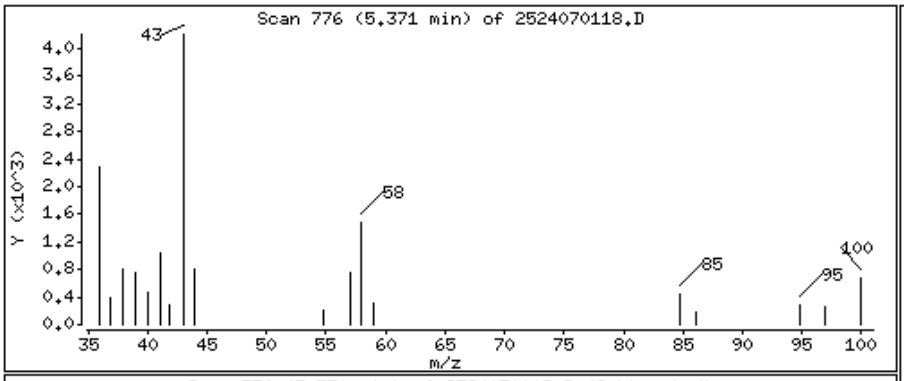
Client ID: ICT12E_062024 Instrument: ms25.i

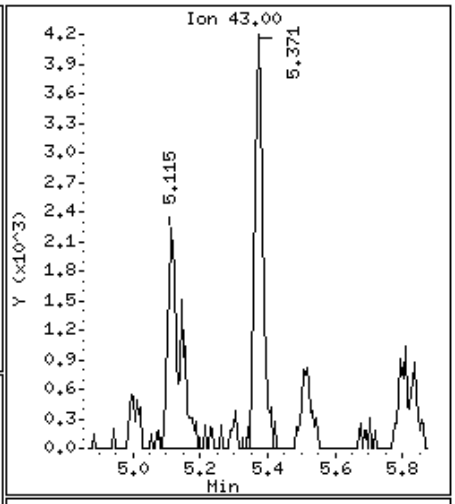
Sample Info: 3366026011;;1;;;;;

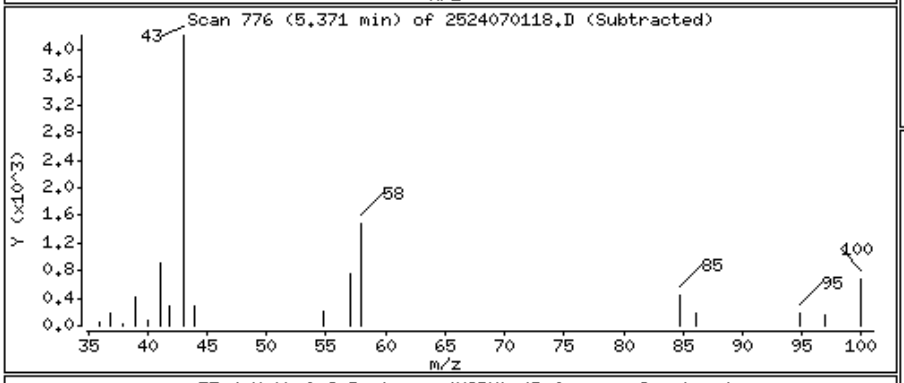
Purge Volume: 5.0 Operator: TMP

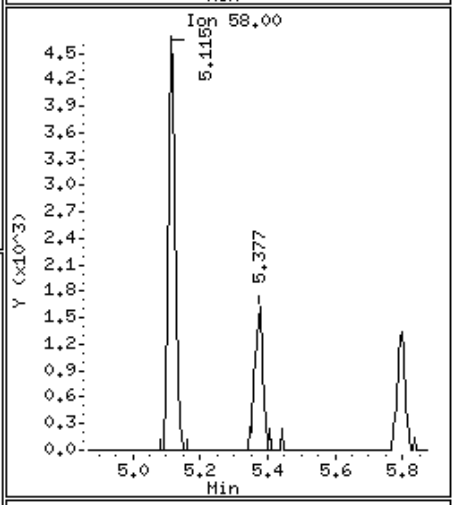
Column phase: DB-VRX Column diameter: 0.25

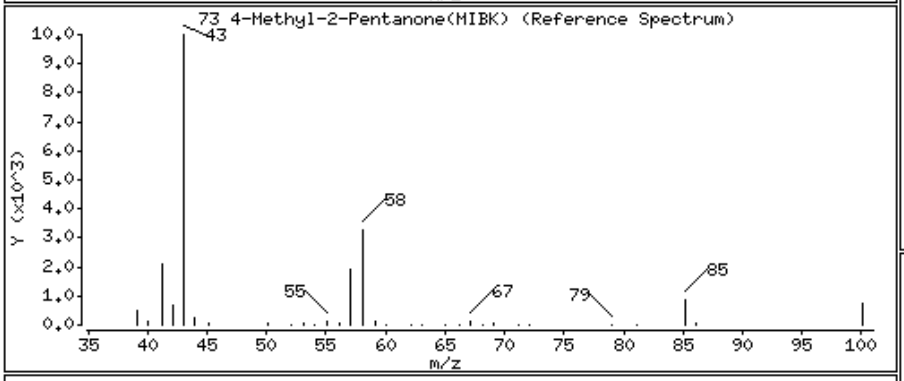
73 4-Methyl-2-Pentanone(MIBK) Concentration: 1.88285 ug/L

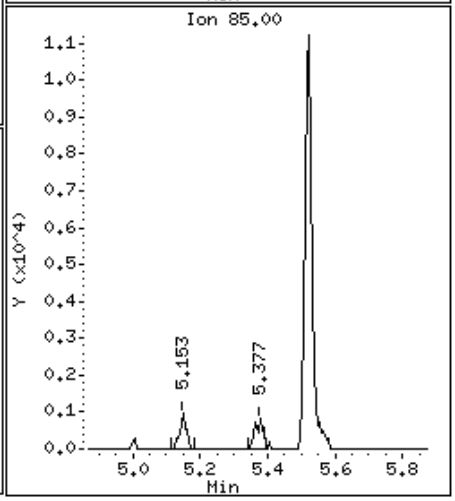


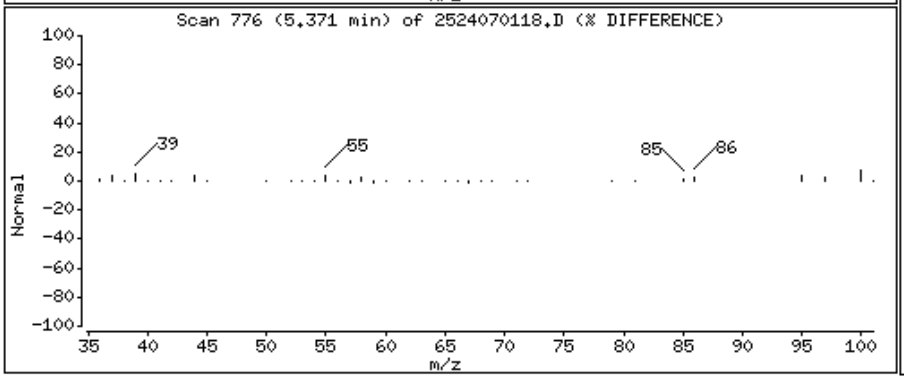












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 17

Date : 01-JUL-2024 15:40

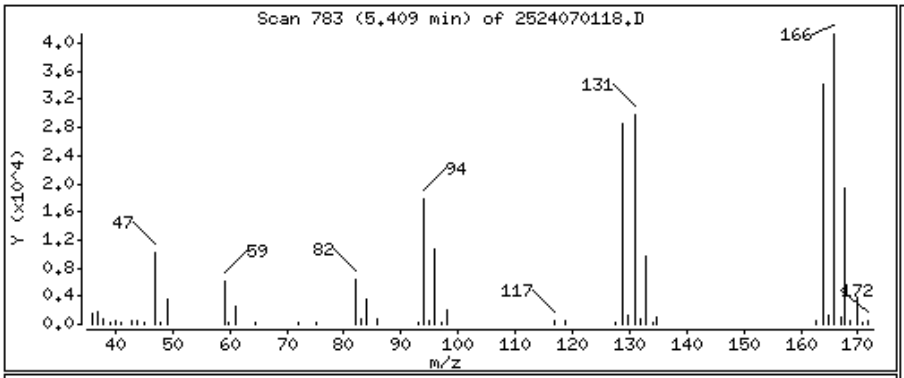
Client ID: ICT12E_062024 Instrument: ms25.i

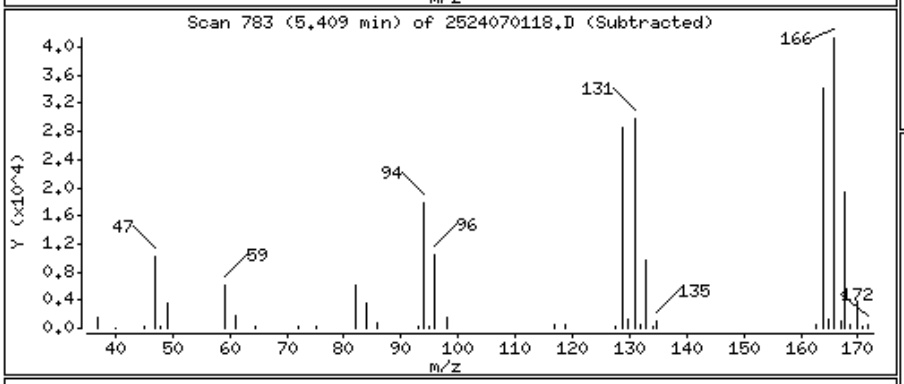
Sample Info: 3366026011;;1;;;;;

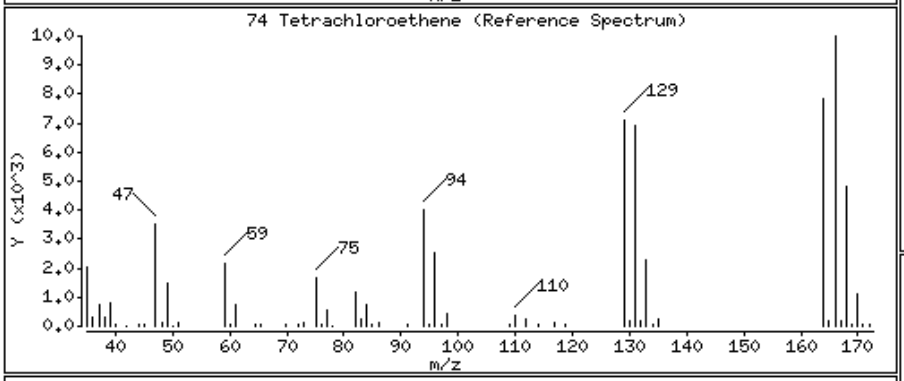
Purge Volume: 5.0 Operator: TMP

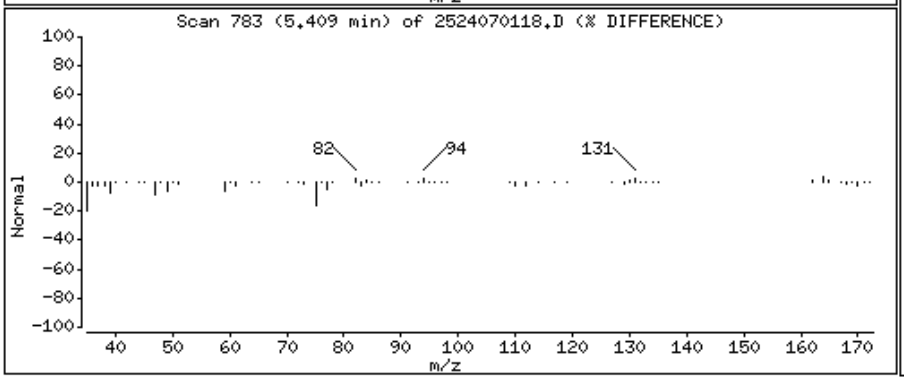
Column phase: DB-VRX Column diameter: 0.25

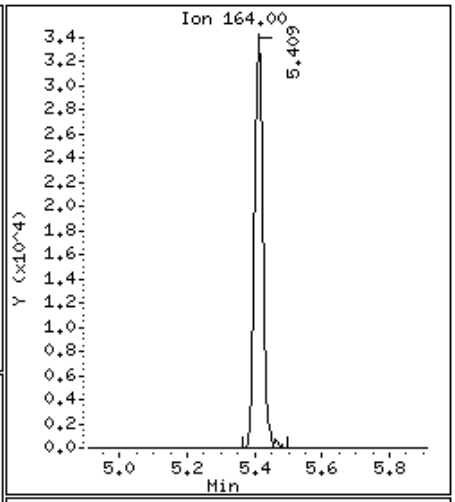
74 Tetrachloroethene Concentration: 7.72462 ug/L

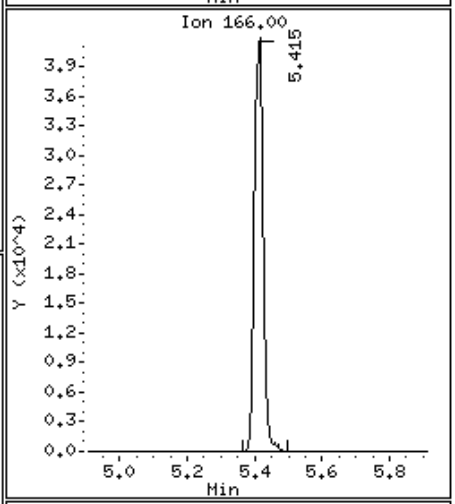


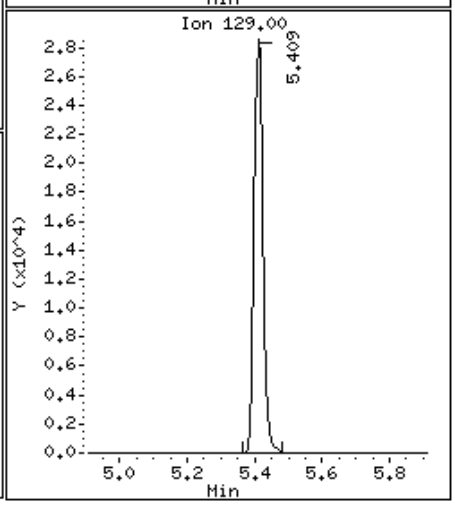












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 18

Date : 01-JUL-2024 15:40

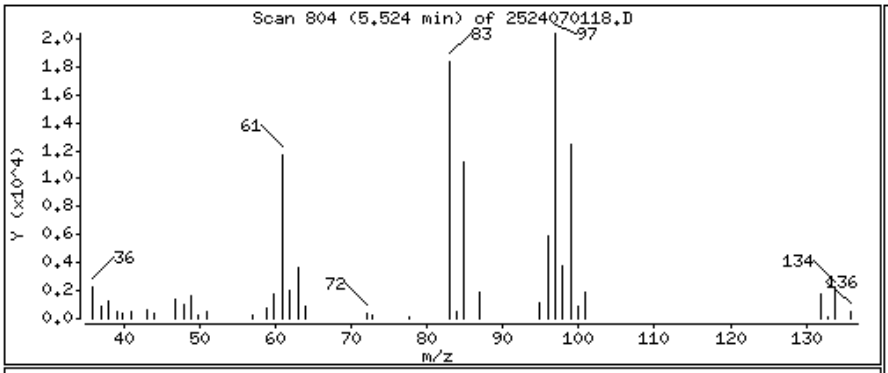
Client ID: ICT12E_062024 Instrument: ms25.i

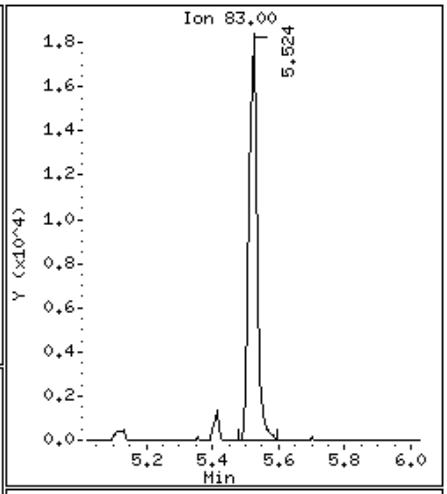
Sample Info: 3366026011;;1;;;;;

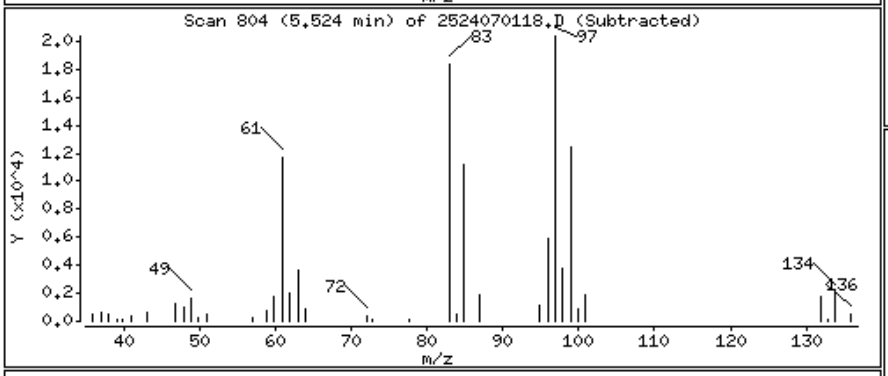
Purge Volume: 5.0 Operator: TMP

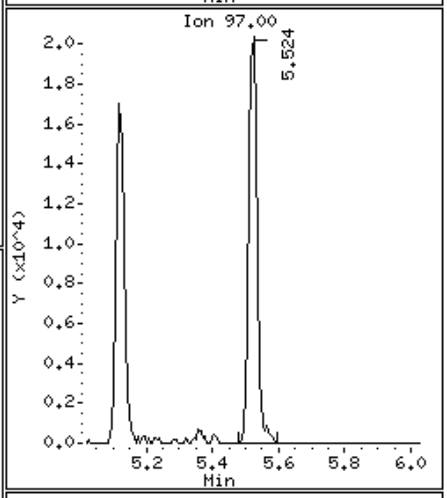
Column phase: DB-VRX Column diameter: 0.25

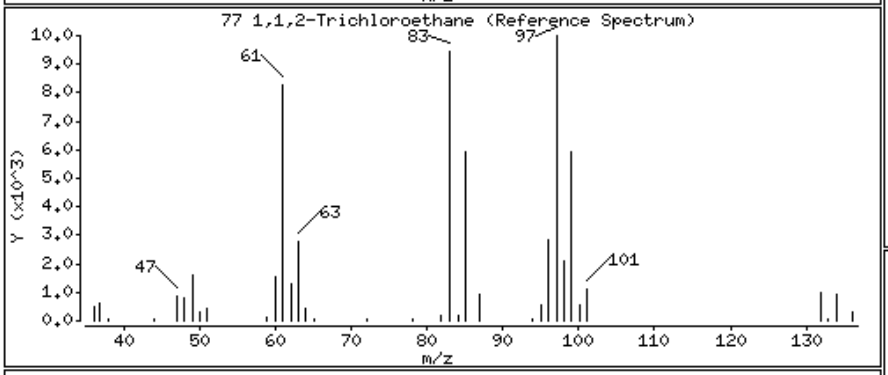
77 1,1,2-Trichloroethane Concentration: 4.78311 ug/L

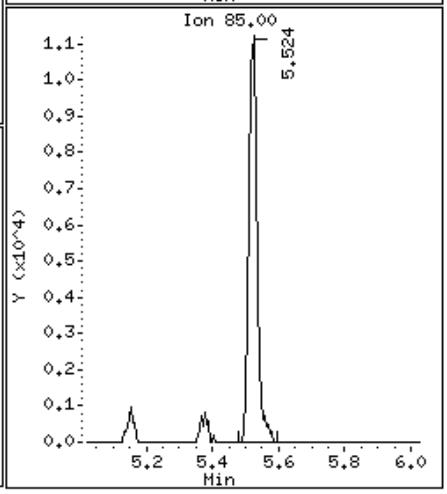


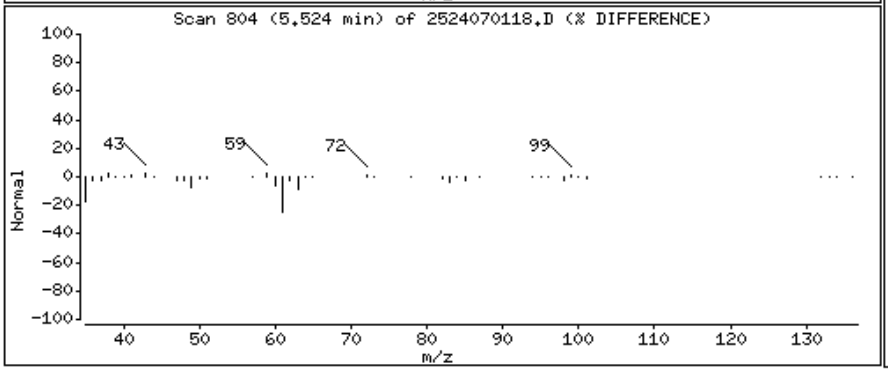












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 19

Date : 01-JUL-2024 15:40

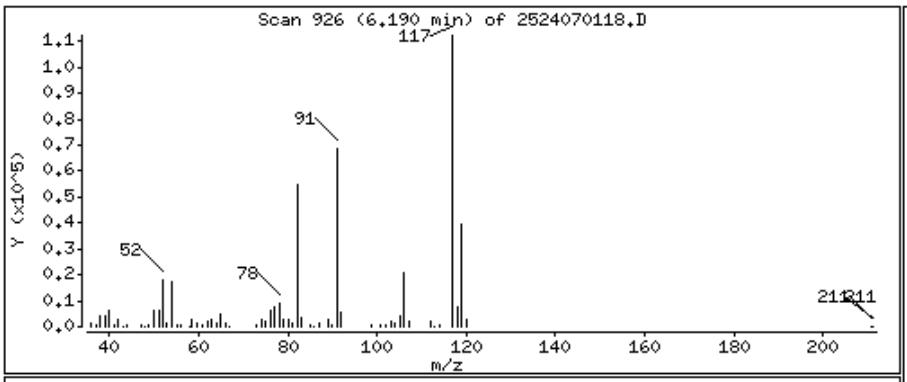
Client ID: ICT12E_062024 Instrument: ms25.i

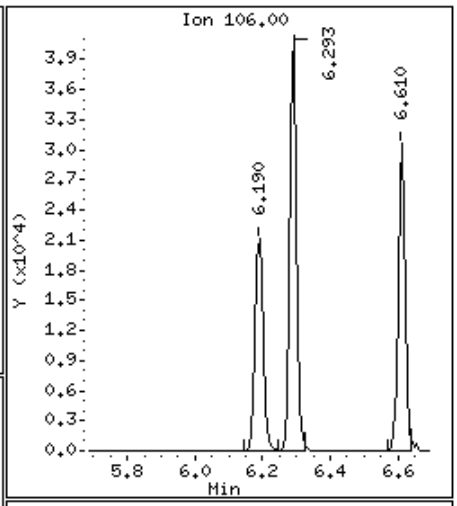
Sample Info: 3366026011;;1;;;;;

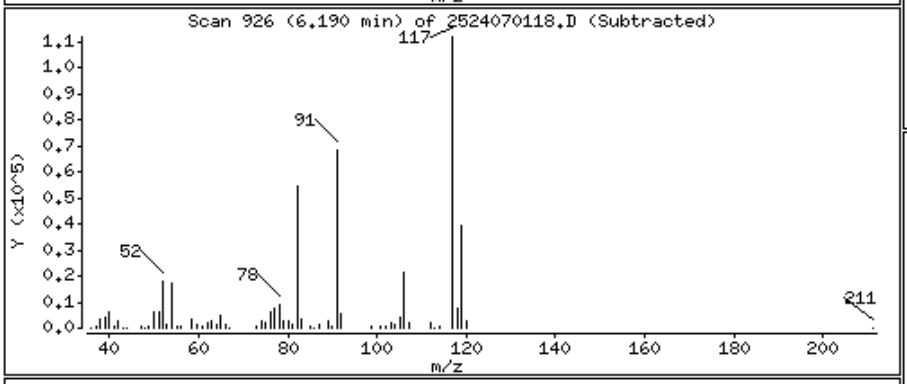
Purge Volume: 5.0 Operator: TMP

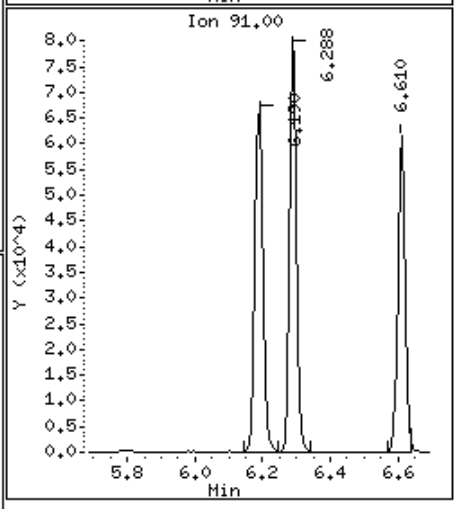
Column phase: DB-VRX Column diameter: 0.25

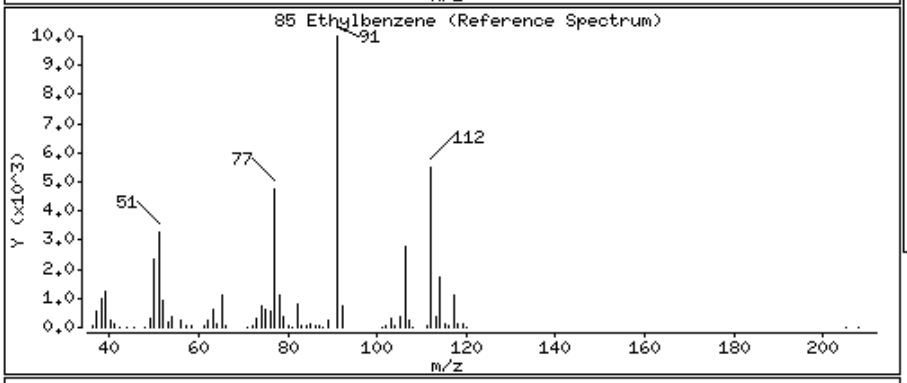
85 Ethylbenzene Concentration: 2.70464 ug/L

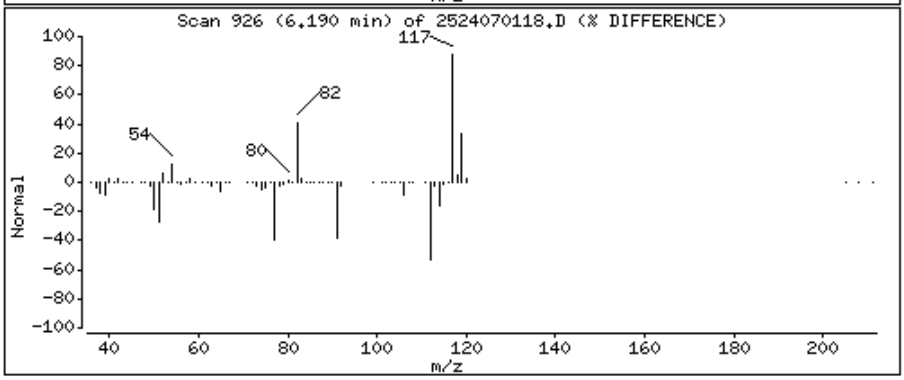












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 20

Date : 01-JUL-2024 15:40

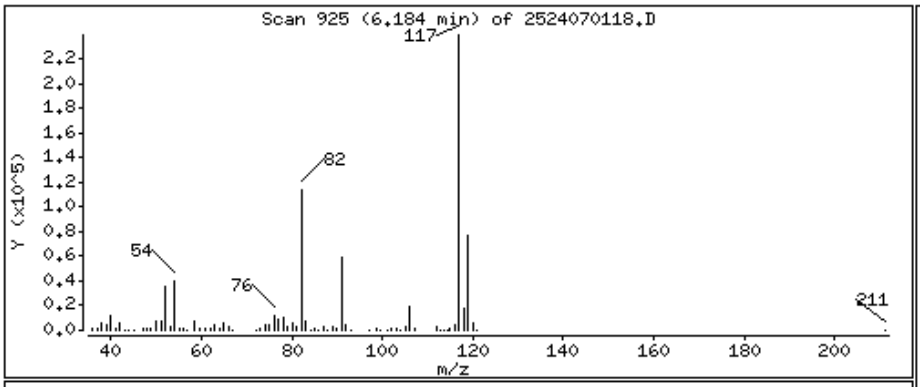
Client ID: ICT12E_062024 Instrument: ms25.i

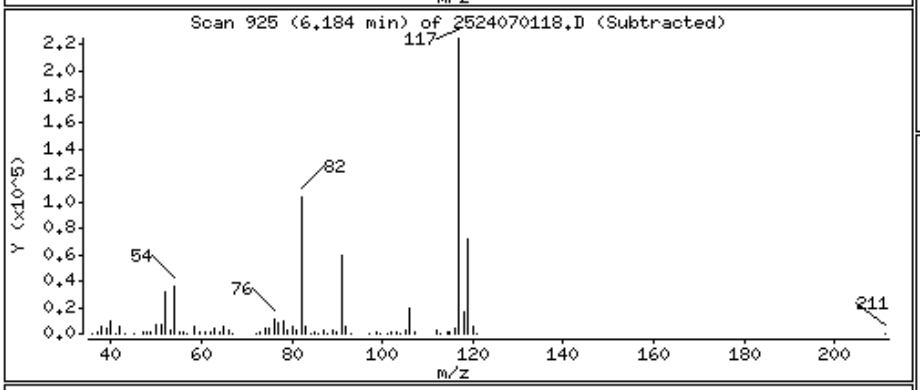
Sample Info: 3366026011;;1;;;;;

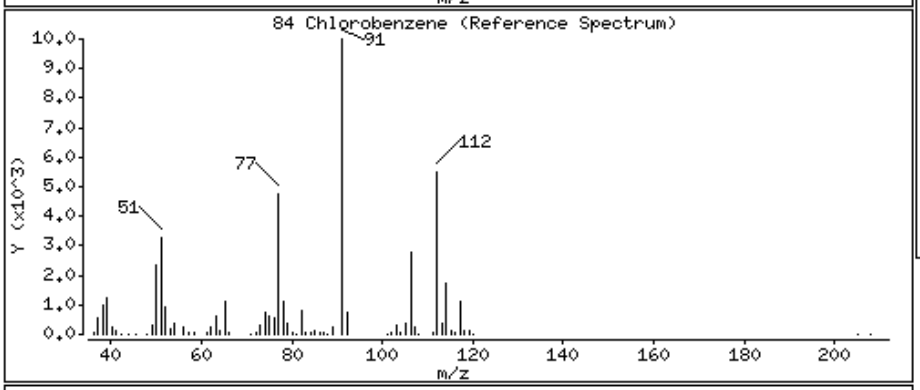
Purge Volume: 5.0 Operator: TMP

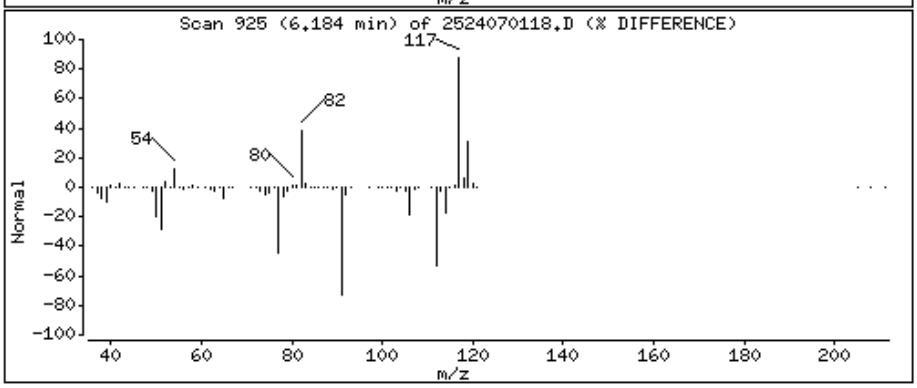
Column phase: DB-VRX Column diameter: 0.25

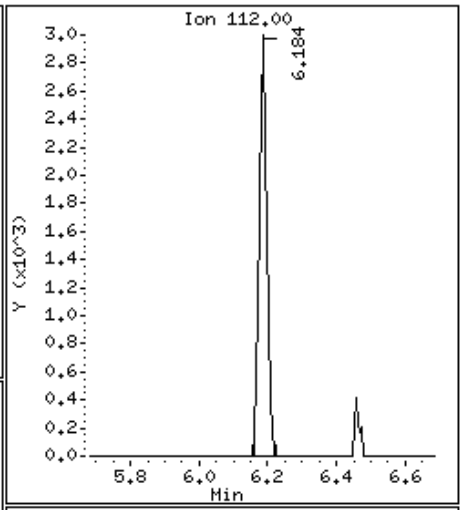
84 Chlorobenzene Concentration: 0.207207 ug/L

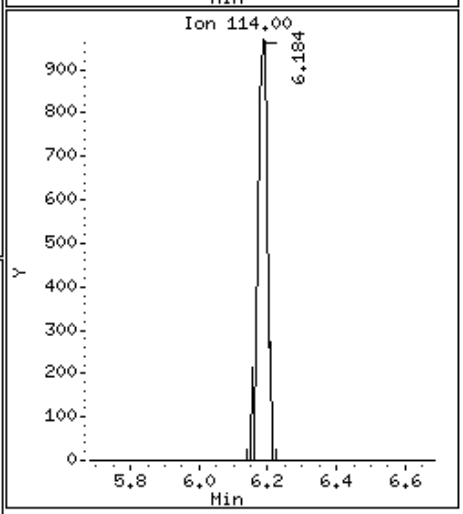












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 21

Date : 01-JUL-2024 15:40

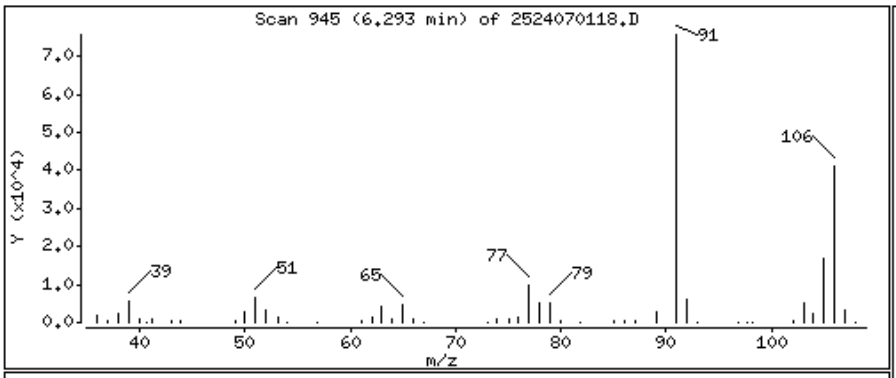
Client ID: ICT12E_062024 Instrument: ms25.i

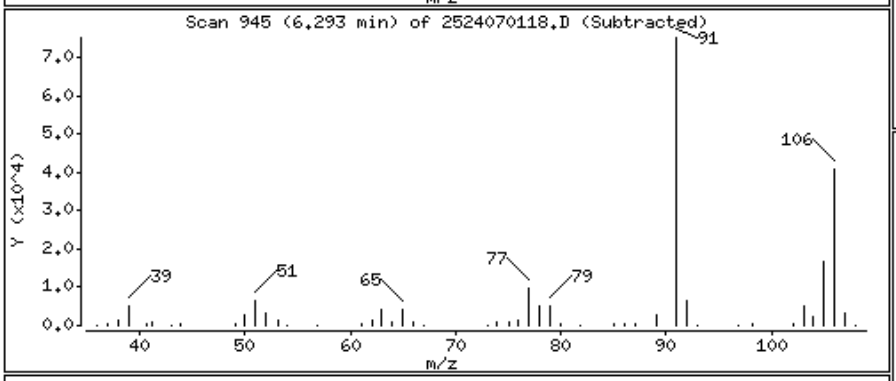
Sample Info: 3366026011;;1;;;;;

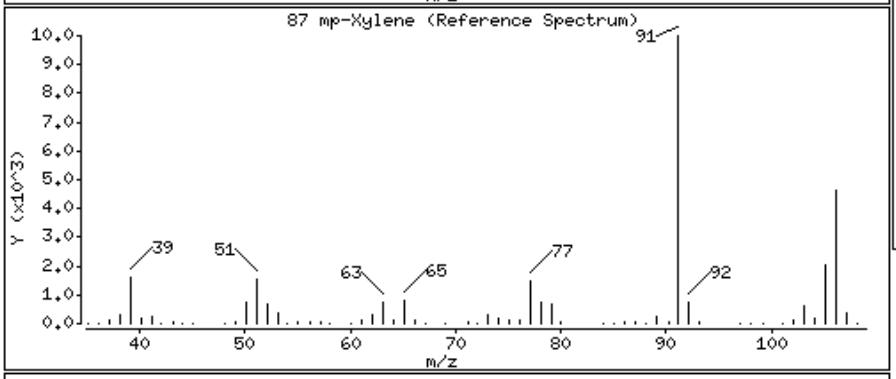
Purge Volume: 5.0 Operator: TMP

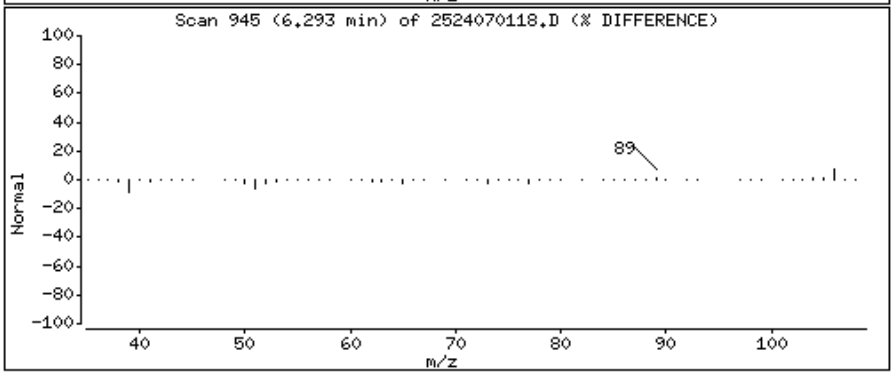
Column phase: DB-VRX Column diameter: 0.25

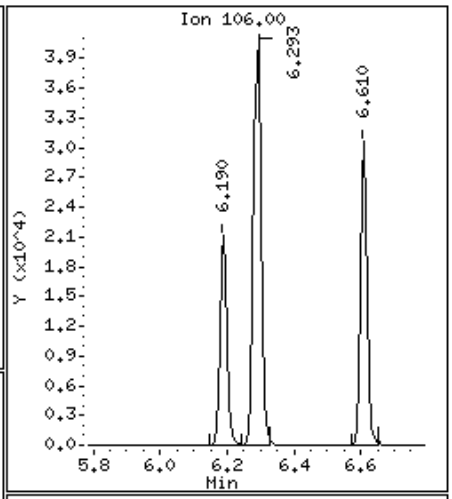
87 mp-Xylene Concentration: 3.73558 ug/L

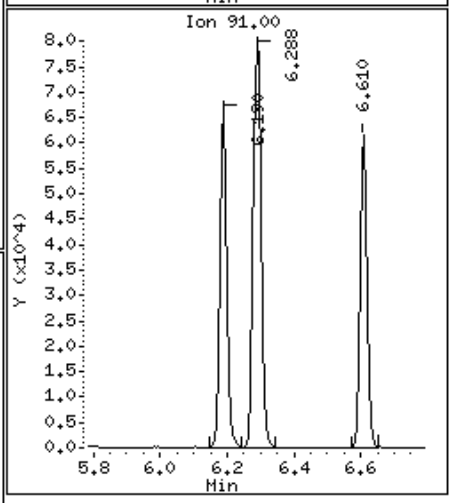












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 22

Date : 01-JUL-2024 15:40

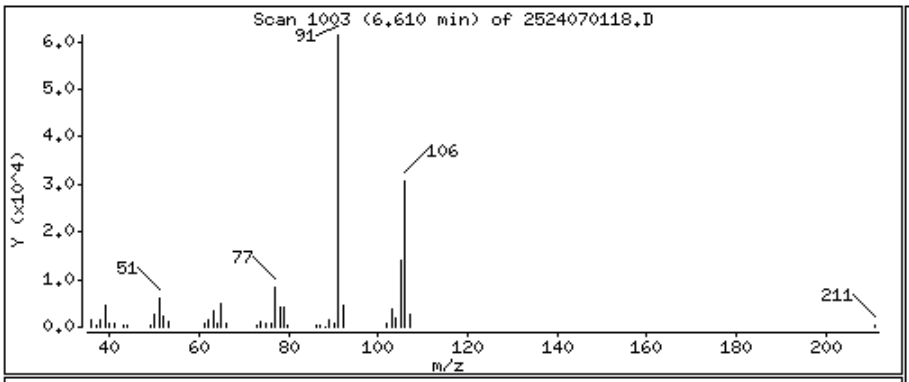
Client ID: ICT12E_062024 Instrument: ms25.i

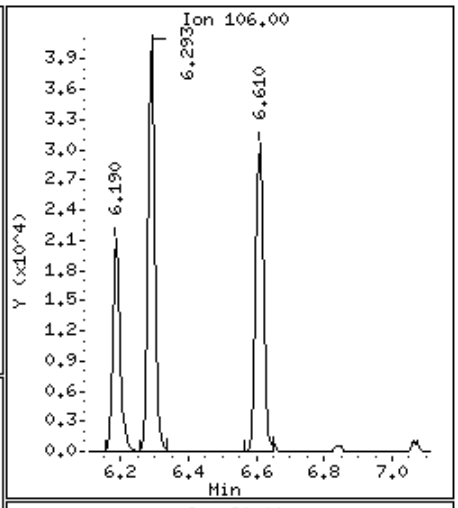
Sample Info: 3366026011;;1;;;;;

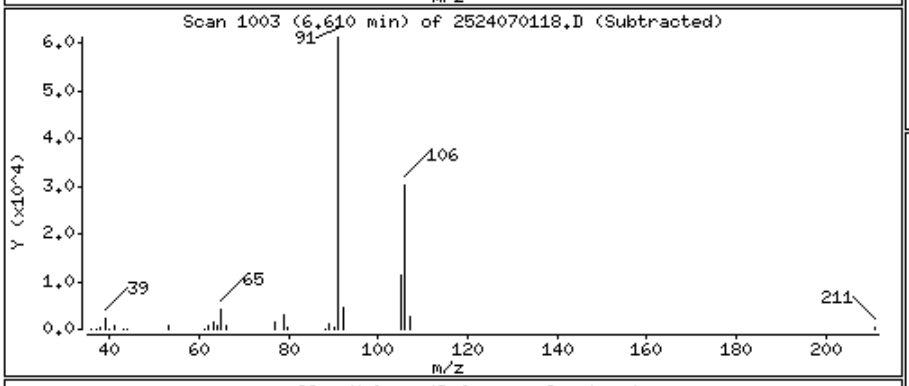
Purge Volume: 5.0 Operator: TMP

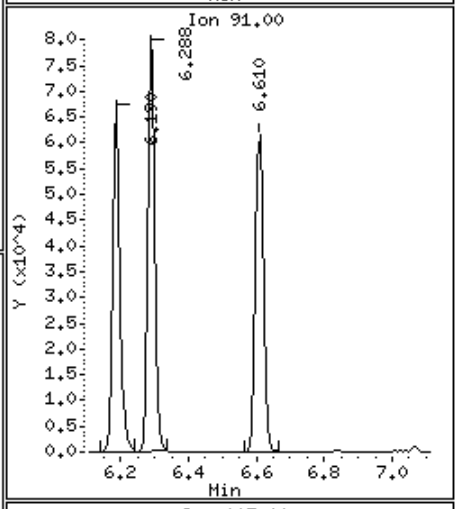
Column phase: DB-VRX Column diameter: 0.25

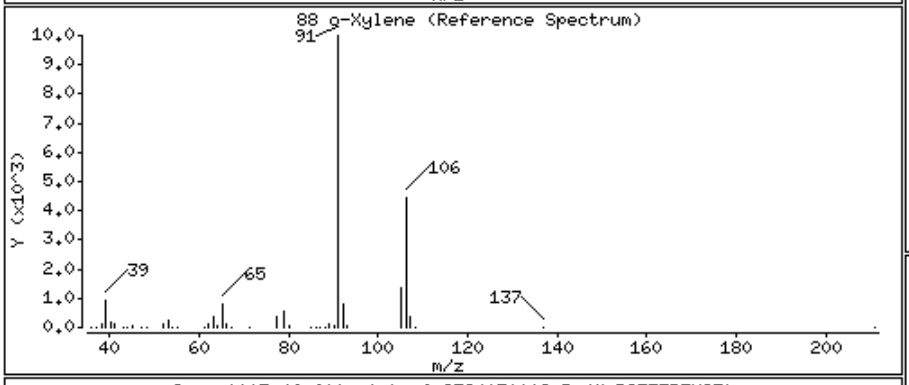
88 o-Xylene Concentration: 3.43954 ug/L

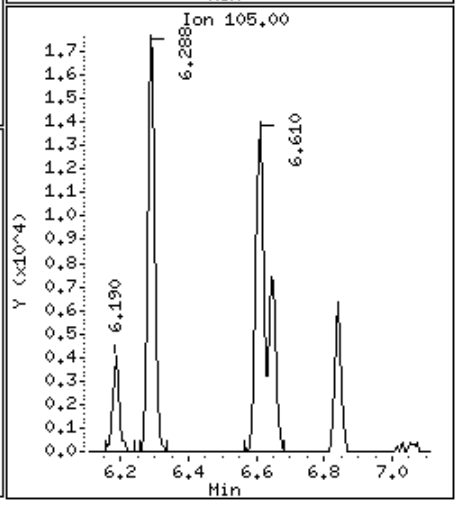


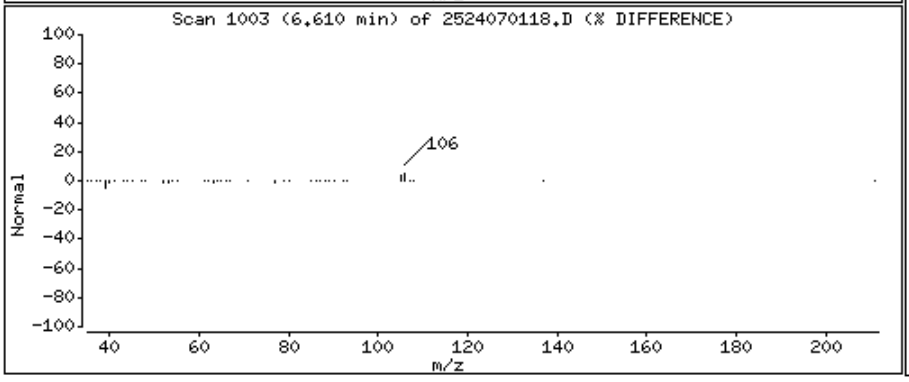












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 23

Date : 01-JUL-2024 15:40

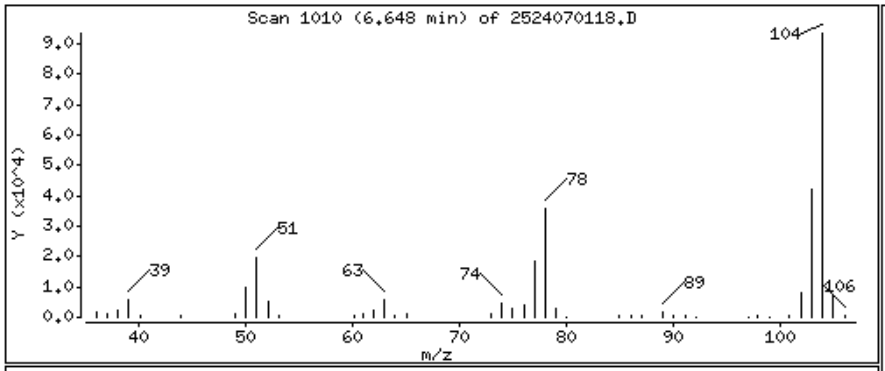
Client ID: ICT12E_062024 Instrument: ms25.i

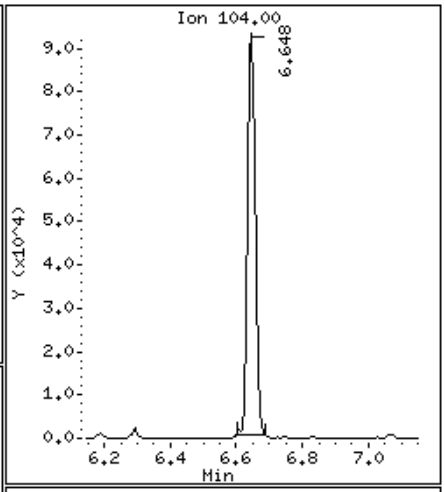
Sample Info: 3366026011;;1;;;;;

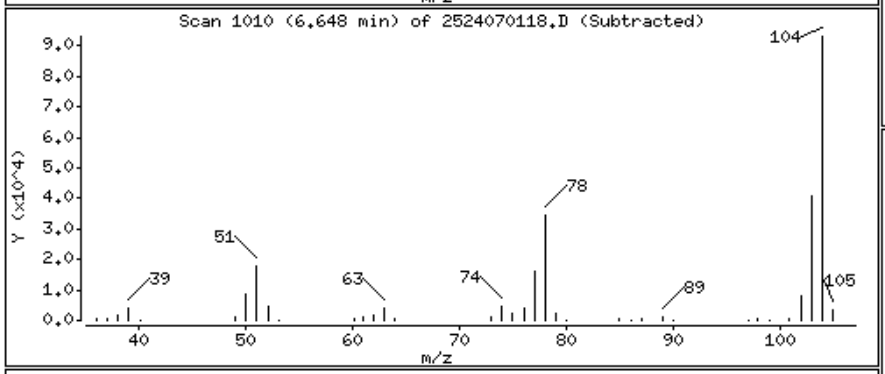
Purge Volume: 5.0 Operator: TMP

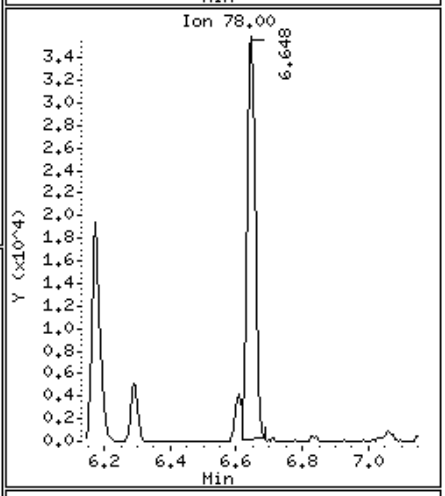
Column phase: DB-VRX Column diameter: 0.25

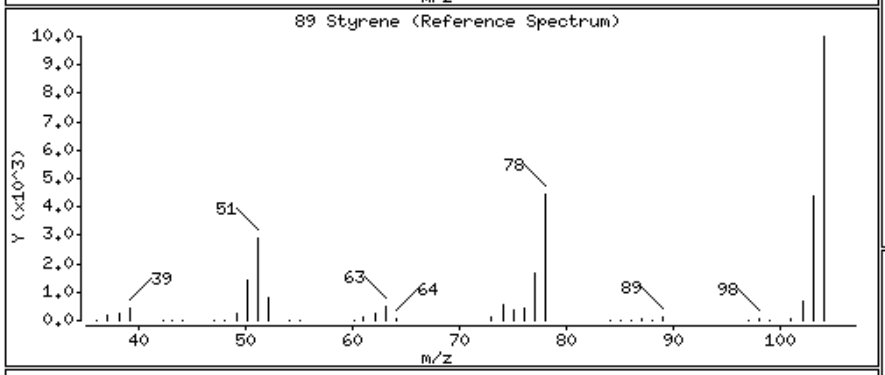
89 Styrene Concentration: 7.20147 ug/L

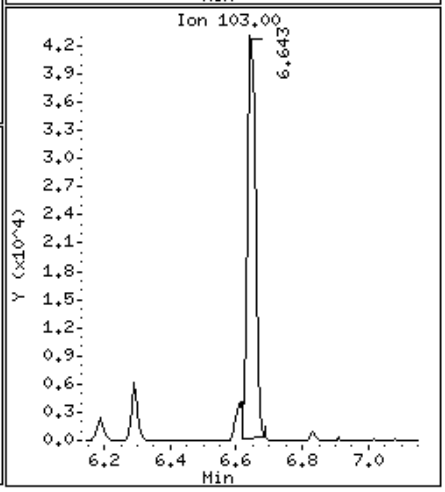


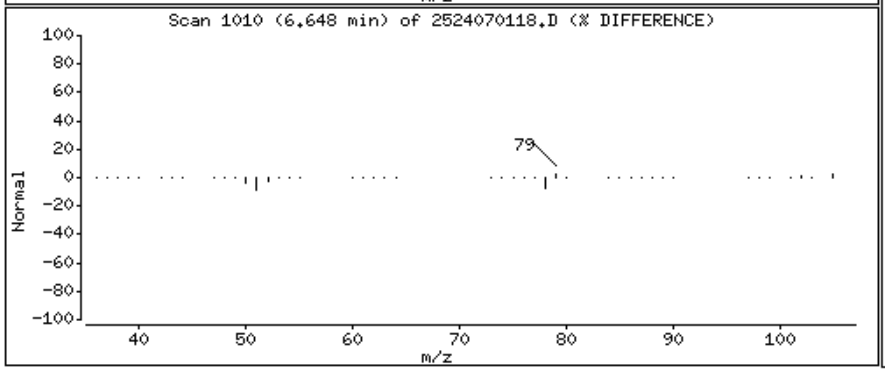












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 24

Date : 01-JUL-2024 15:40

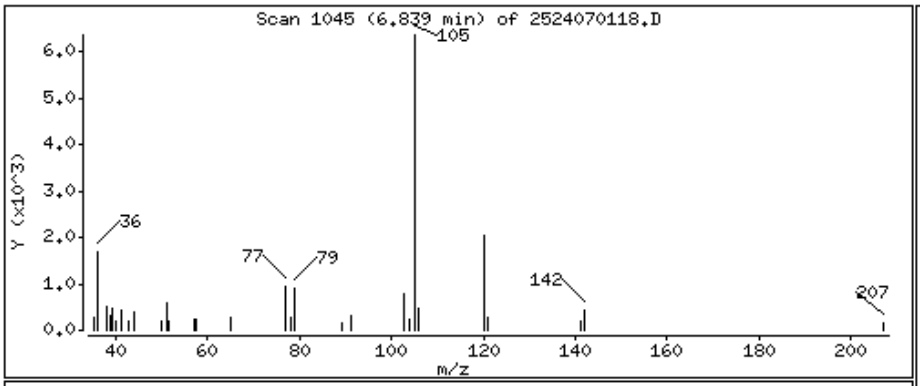
Client ID: ICT12E_062024 Instrument: ms25.i

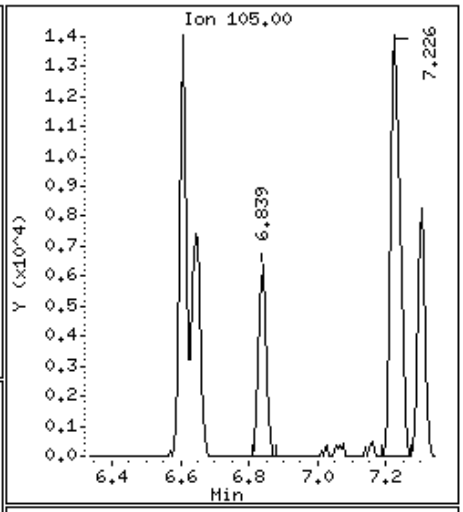
Sample Info: 3366026011;;1;;;;;

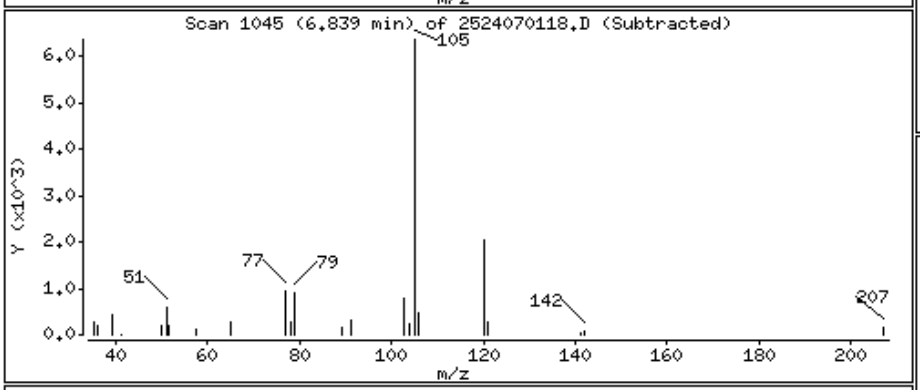
Purge Volume: 5.0 Operator: TMP

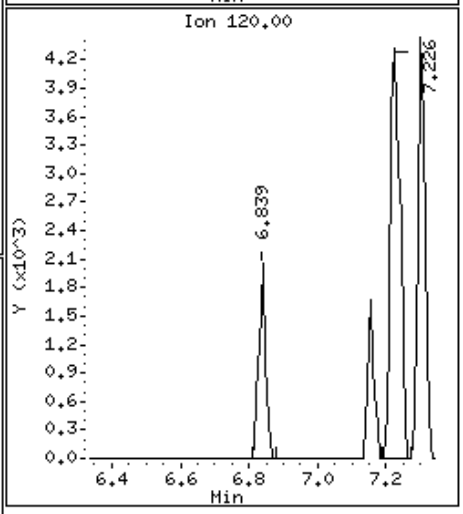
Column phase: DB-VRX Column diameter: 0.25

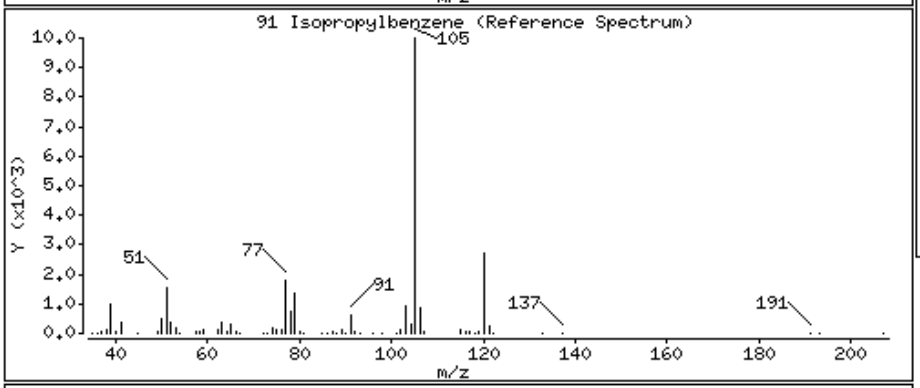
91 Isopropylbenzene Concentration: 0.455076 ug/L

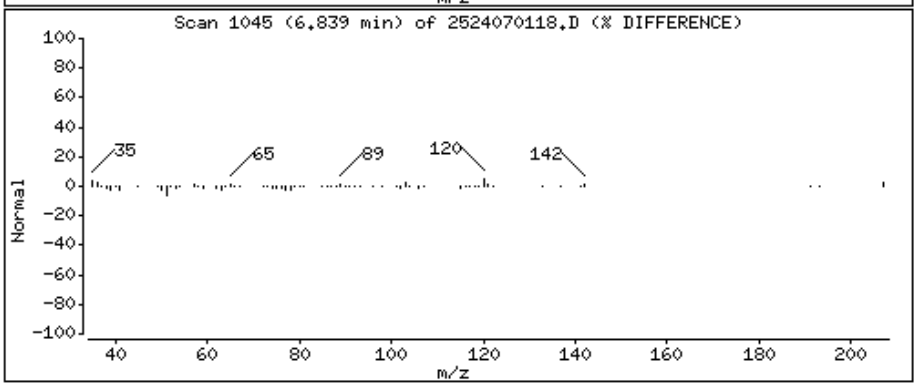












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 25

Date : 01-JUL-2024 15:40

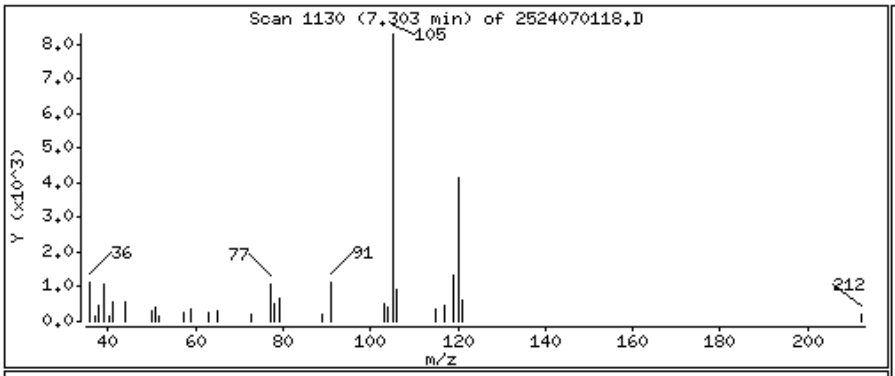
Client ID: ICT12E_062024 Instrument: ms25.i

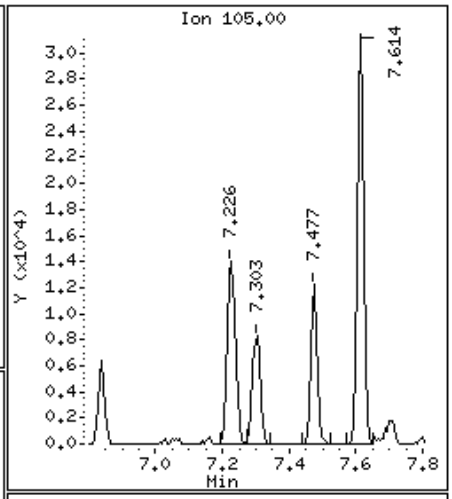
Sample Info: 3366026011;;1;;;;;

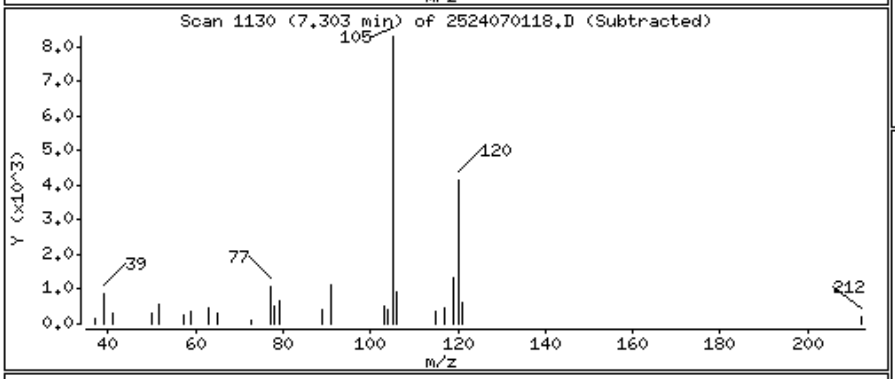
Purge Volume: 5.0 Operator: TMP

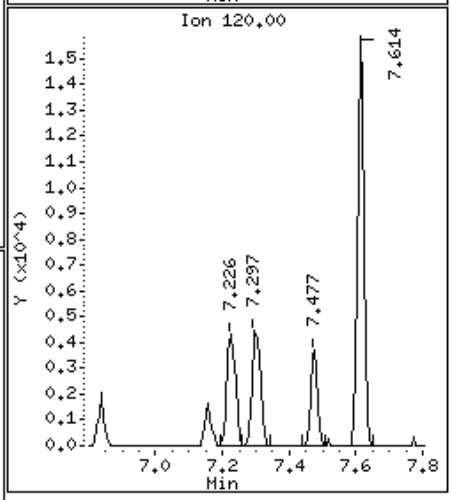
Column phase: DB-VRX Column diameter: 0.25

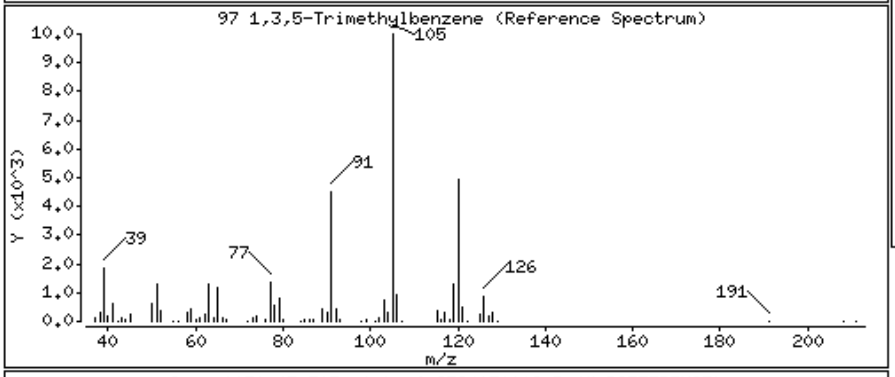
97 1,3,5-Trimethylbenzene Concentration: 0.571325 ug/L

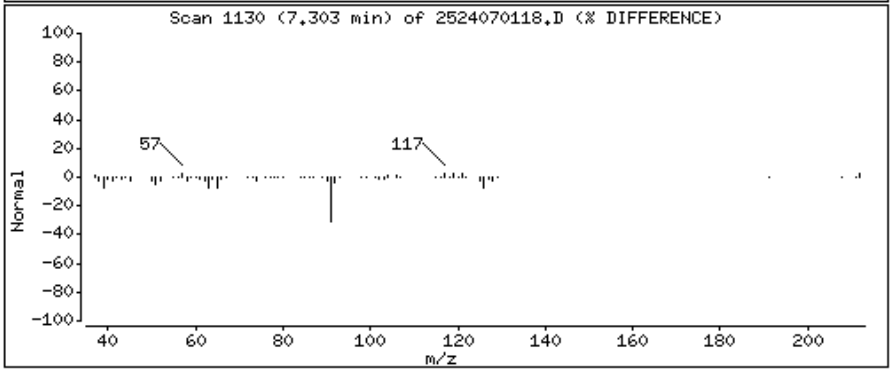












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 26

Date : 01-JUL-2024 15:40

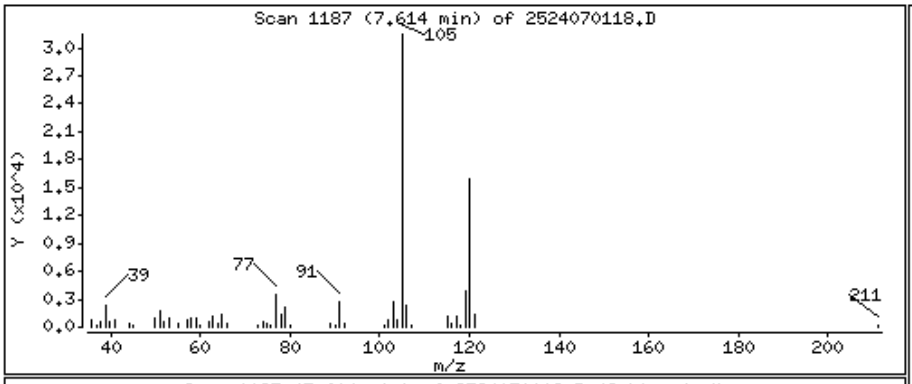
Client ID: ICT12E_062024 Instrument: ms25.i

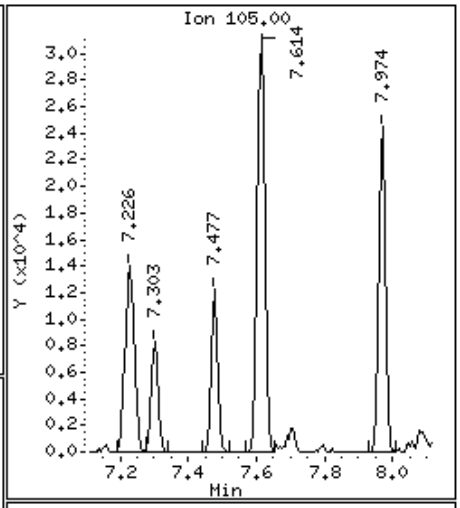
Sample Info: 3366026011;;1;;;;;

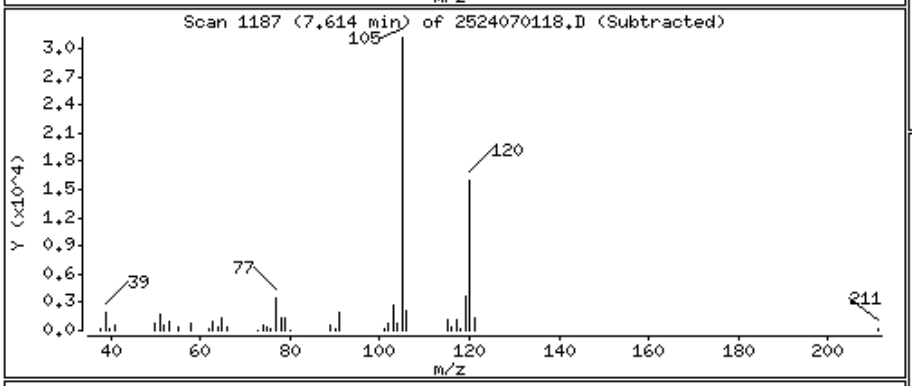
Purge Volume: 5.0 Operator: TMP

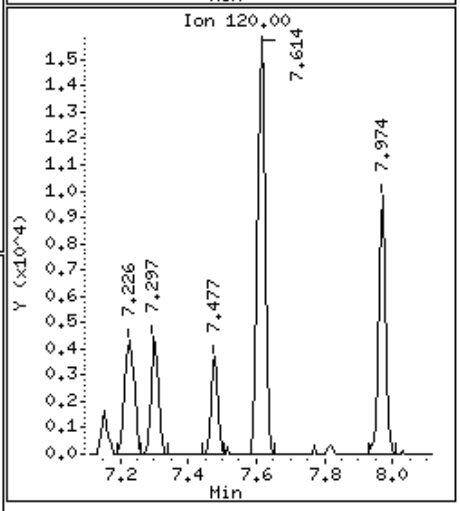
Column phase: DB-VRX Column diameter: 0.25

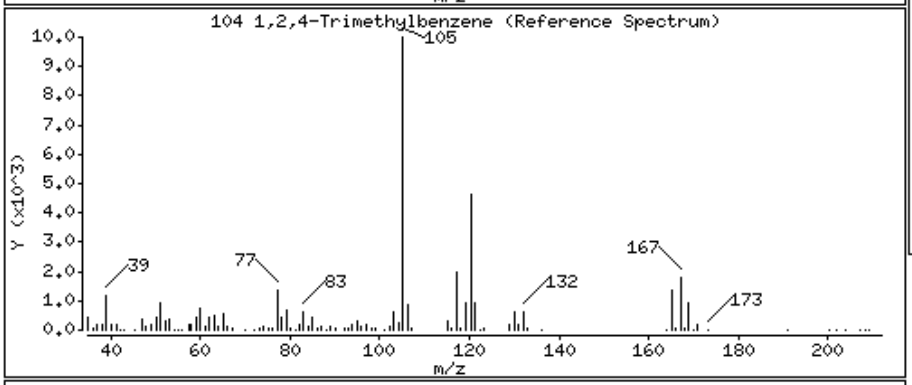
104 1,2,4-Trimethylbenzene Concentration: 1.70653 ug/L

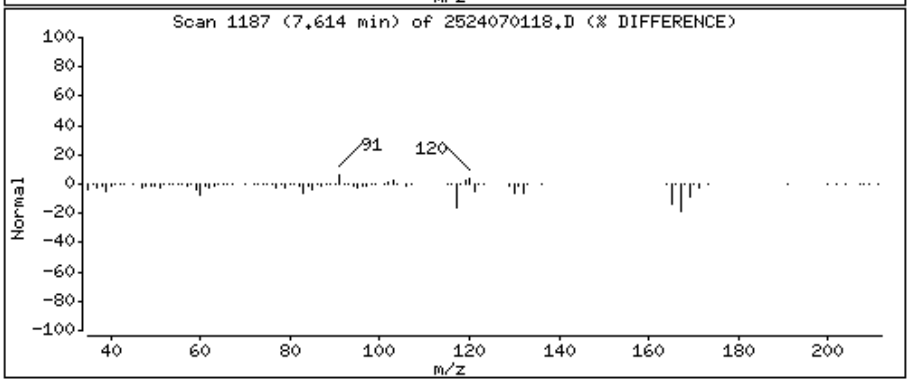












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 27

Date : 01-JUL-2024 15:40

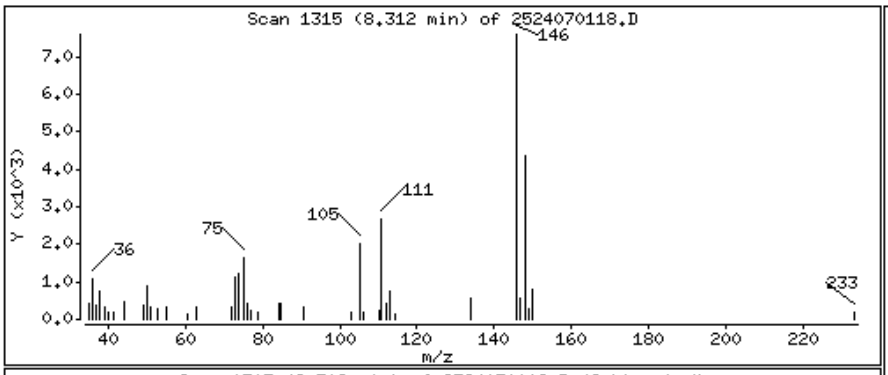
Client ID: ICT12E_062024 Instrument: ms25.i

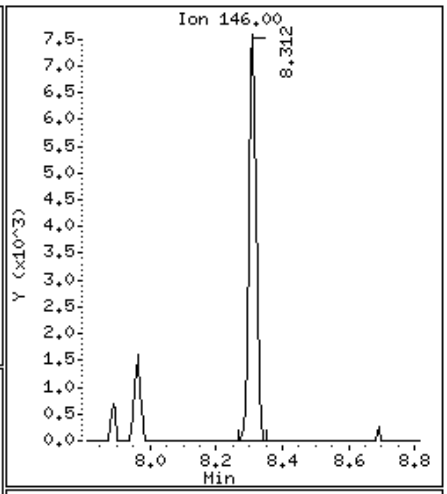
Sample Info: 3366026011;;1;;;;;

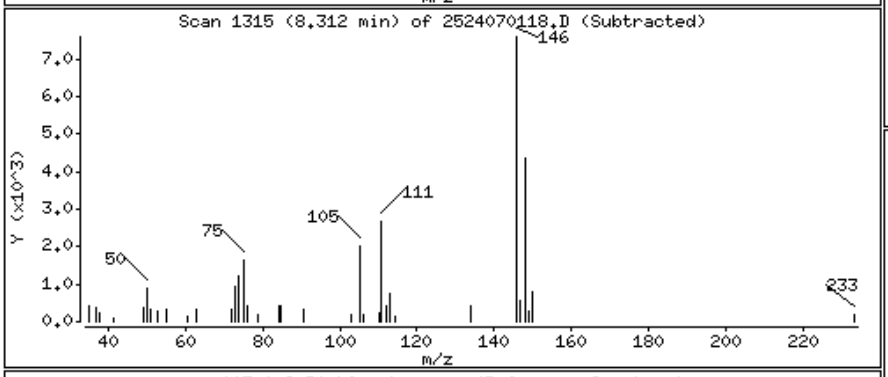
Purge Volume: 5.0 Operator: TMP

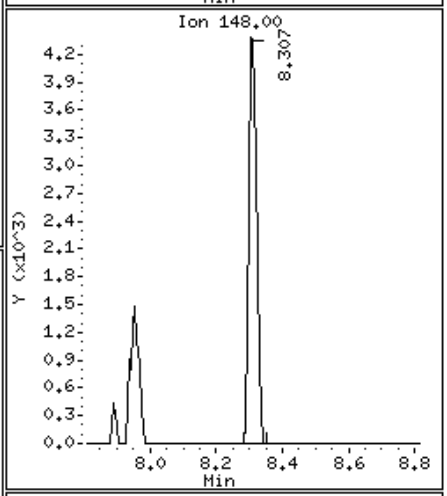
Column phase: DB-VRX Column diameter: 0.25

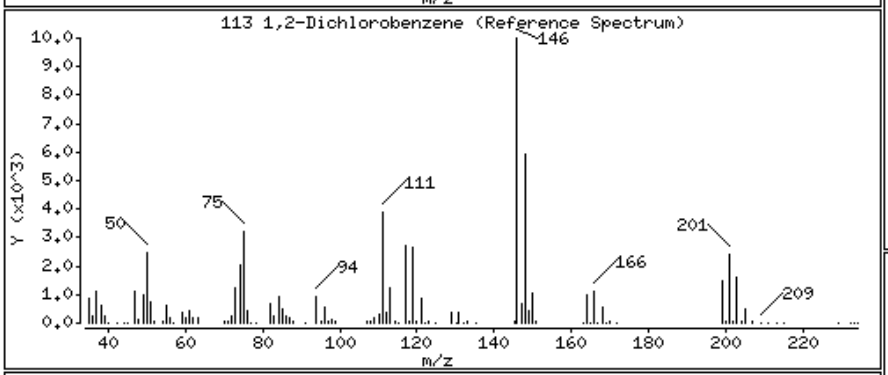
113 1,2-Dichlorobenzene Concentration: 0.812313 ug/L

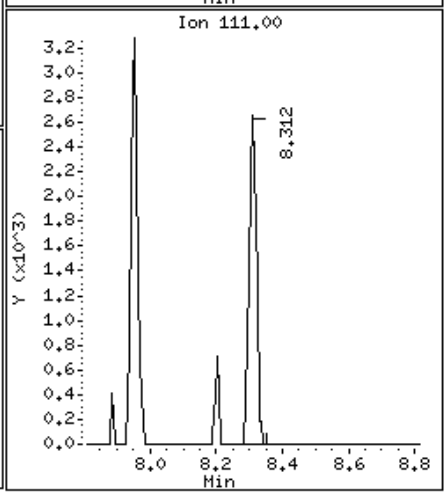


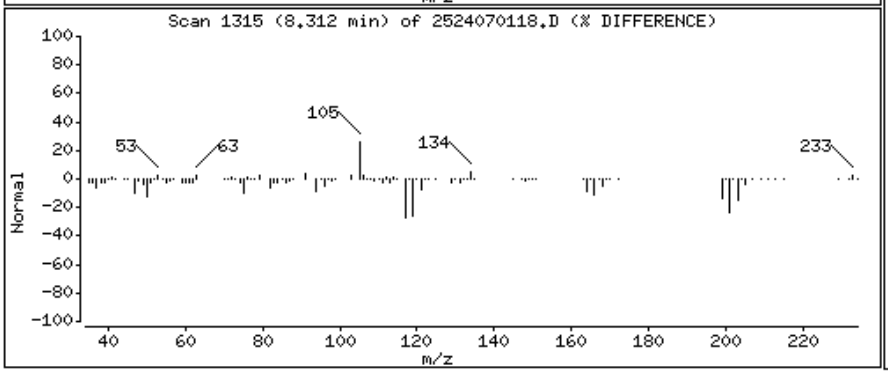












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070118.D Page 28

Date : 01-JUL-2024 15:40

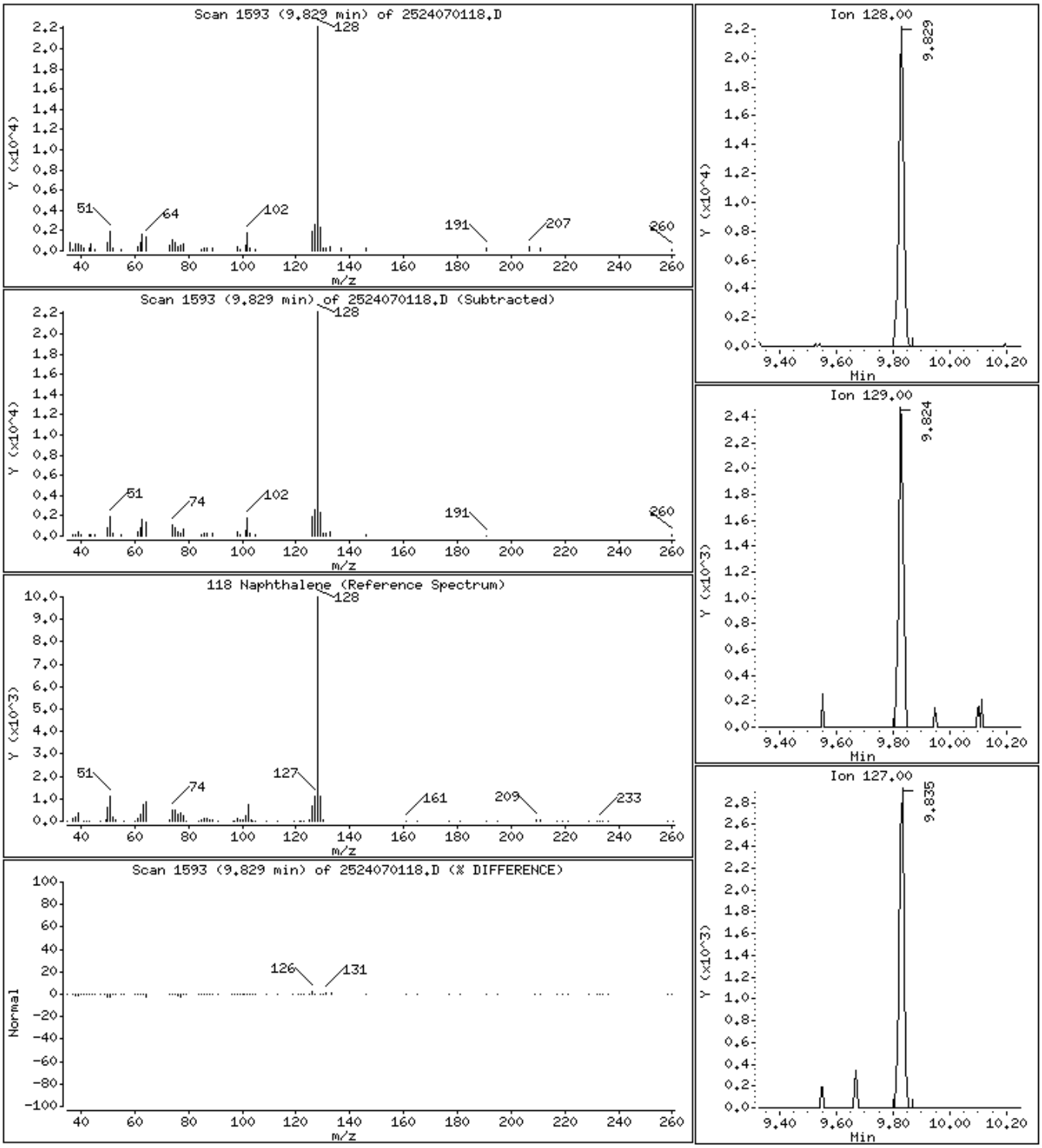
Client ID: ICT12E_062024 Instrument: ms25.i

Sample Info: 3366026011;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

118 Naphthalene Concentration: 1.51554 ug/L



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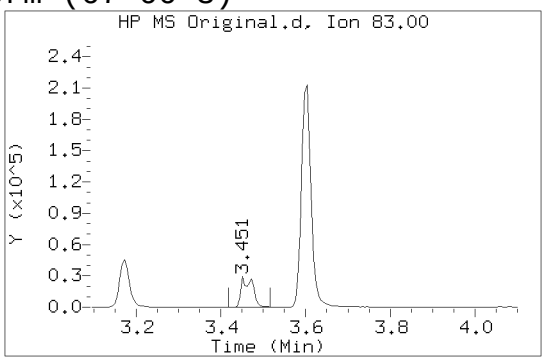
Inj Date : 01-JUL-2024 15:40
InstruID : ms25.i
LabSampID : 3366026011

Chloroform (67-66-3)

Reason Code: H

BEFORE
MASS
83
AREA
53193
HEIGHT
29672
01-Jul-2024
18:59



AFTER
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HEIGHT
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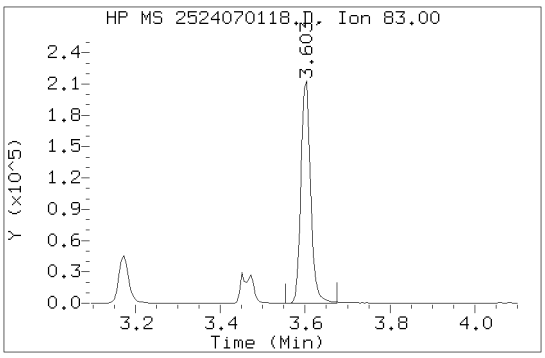
02-Jul-2024
13:23



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01-Jul-2024
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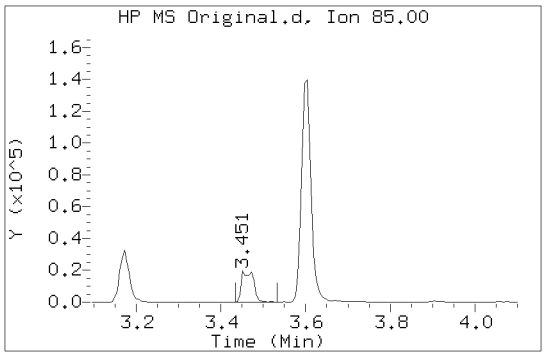

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02-Jul-2024
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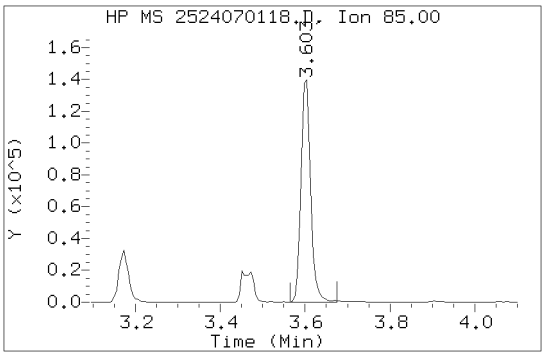

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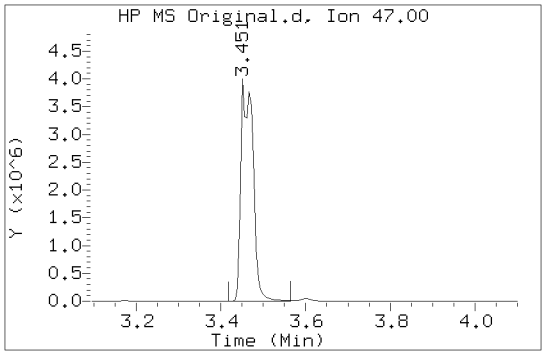
01-Jul-2024
18:59



AFTER
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AREA
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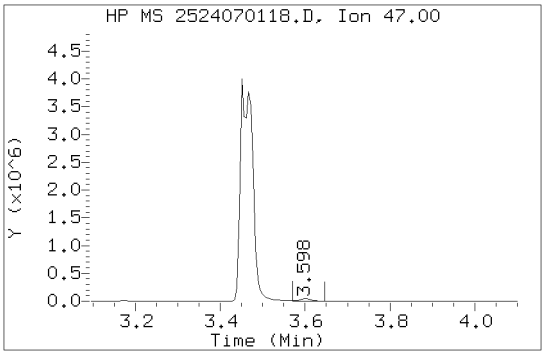
02-Jul-2024
13:23



Fluorobenzene (462-06-6)

Reason Code: H

BEFORE
MASS
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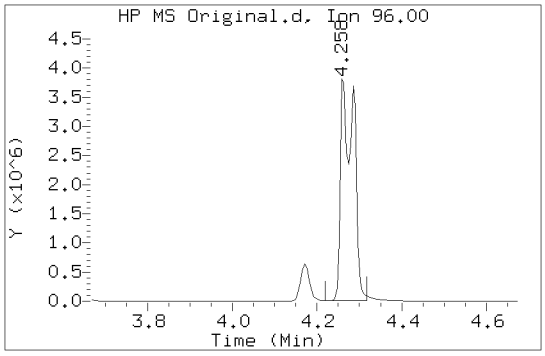
01-Jul-2024
18:59



AFTER
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AREA
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HEIGHT
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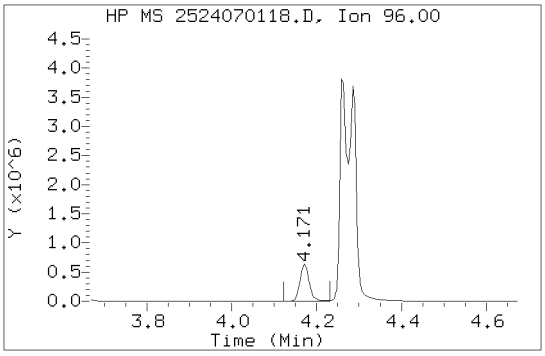

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Inj Date : 01-JUL-2024 15:40
InstruID : ms25.i
LabSampID : 3366026011

Fluorobenzene (462-06-6)

Reason Code: H

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HEIGHT
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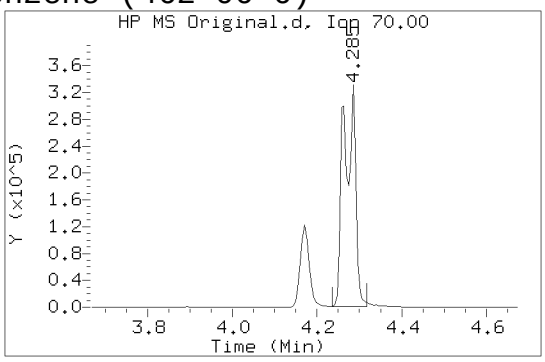
01-Jul-2024
18:59



AFTER
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AREA
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HEIGHT
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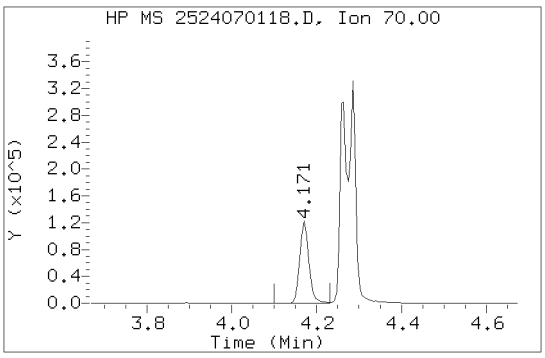
02-Jul-2024
13:23



1,1,1-Trichloroethane (71-55-6)

Reason Code: H

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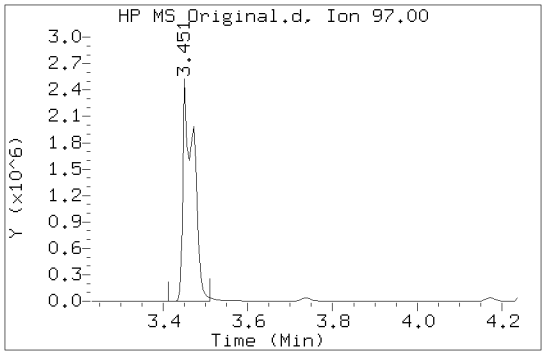
01-Jul-2024
18:59



AFTER
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HEIGHT
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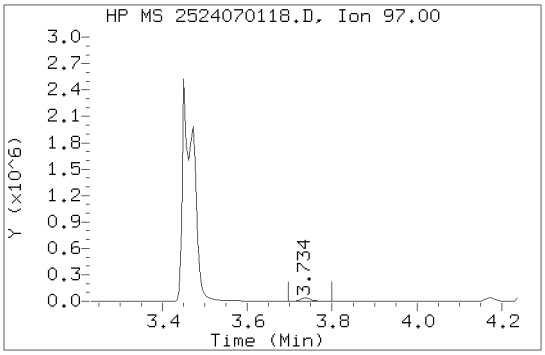
02-Jul-2024
13:23



BEFORE
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AREA
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01-Jul-2024
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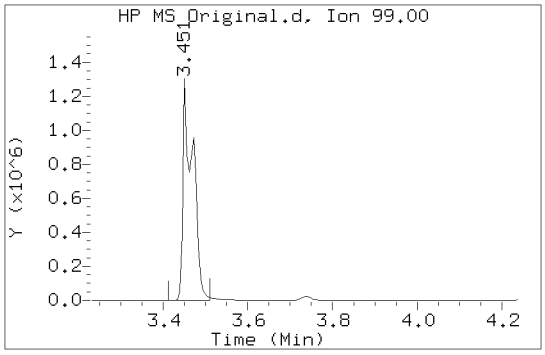

AFTER
MASS
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AREA
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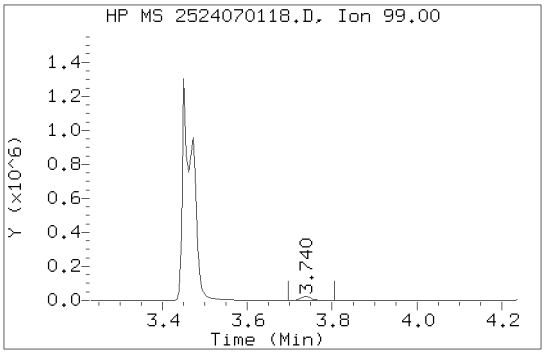
02-Jul-2024
13:23



BEFORE
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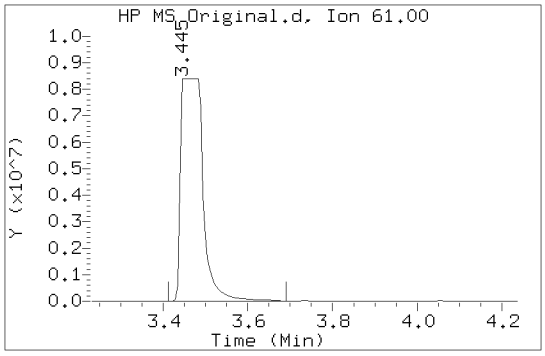
01-Jul-2024
18:59



AFTER
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HEIGHT
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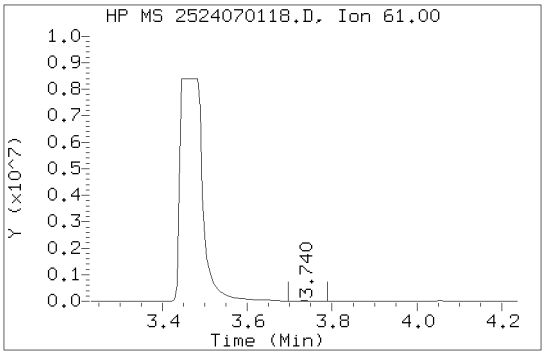
02-Jul-2024
13:23



UNASSIGNED PEAK REPORT

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Client ID: ICT12E_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/2524070118
Inj Date: 01-JUL-2024 15:40
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
tert-Amyl Ethylether
2-Butanone
Carbon Tetrachloride
1-Chlorohexane
1,3-Dichlorobenzene
Dichlorofluoromethane
trans-1,3-Dichloropropene
Ethyl tert-butyl ether
Isobutyl alcohol
Methyl cyclohexane
n-Propylbenzene
tert-Amyl Alcohol
Bromodichloromethane
sec-Butylbenzene
1-Chlorobutane
1,1-Dichloro-2-propanone
1,4-Dichlorobenzene
cis-1,3-Dichloropropene
Ethyl methacrylate
2-Hexanone
Methacrylonitrile
2-Nitropropane
Trichlorofluoromethane

Data File: 2524070119.D Page 1
Report Date: 02-Jul-2024 13:24

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D
Lab Smp Id: 3366026012 Client Smp ID: ICT13A_062024
Inj Date : 01-JUL-2024 16:00
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026012;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	1.644	1.644	(0.394)	4770	0.37961	0.379606(a)	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	16768	1.34431	1.34431	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.413	2.413	(0.579)	74679	7.78478	7.78478	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	828989	122.863	122.863	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						RT
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.741	2.741	(0.657)	12281	1.56727	1.56727	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	10076	1.07241	1.07241	
21 Hexane	57	Compound Not Detected.						

Data File: 2524070119.D
Report Date: 02-Jul-2024 13:24

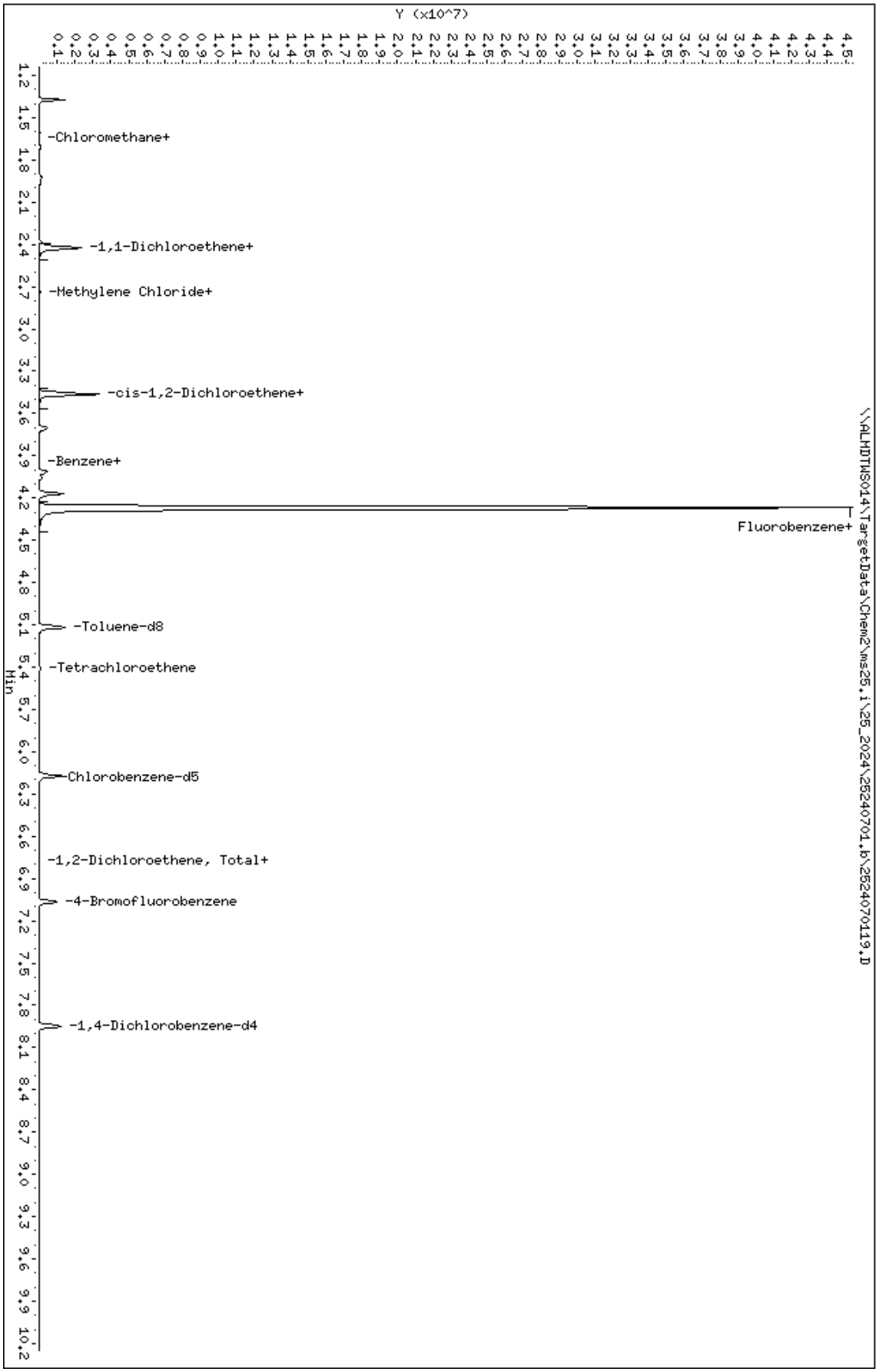
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	1400599	147.018	147.018	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				1410675	148.090	148.090	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	3.701	3.696	(0.887)	9919	4.22942	4.22942(a)	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	221809	28.1909	28.1909	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						IBDL
	43 2-Butanone	72	Compound Not Detected.						RT
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	3.941	3.941	(0.945)	9640	0.30827	0.308270(a)	
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						RT
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	252958	30.4983	30.4983	
	54 Isobutyl alcohol	42	Compound Not Detected.						RT
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	84446	8.59031	8.59031(M)	H
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	997183	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	11127707	1406.01	1406.01(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						SPC
	59 tert-Amyl Ethylether	59	Compound Not Detected.						RT
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	845083	29.8815	29.8815	
	69 Toluene	92	Compound Not Detected.						IBDL
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						RT
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	16122	2.46998	2.46998	
	76 Ethyl methacrylate	69	Compound Not Detected.						RT

Data File: 2524070119.D Page 3
Report Date: 02-Jul-2024 13:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	357208	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	6.648	6.648	(0.837)	6324	0.65133	0.651325(a)	
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	249097	30.2886	30.2886	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	297278	30.0000		
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

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



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Sample Info: 336602601211;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 2

Date : 01-JUL-2024 16:00

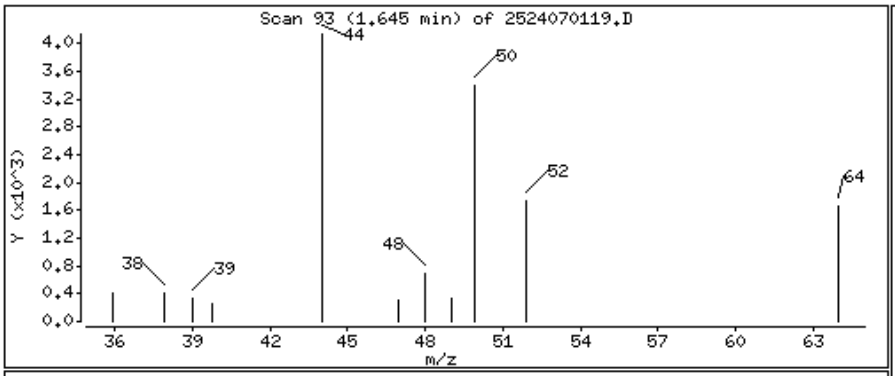
Client ID: ICT13A_062024 Instrument: ms25.i

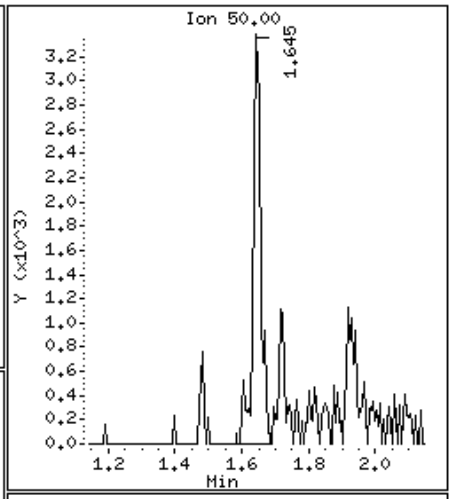
Sample Info: 3366026012;;1;;;;;

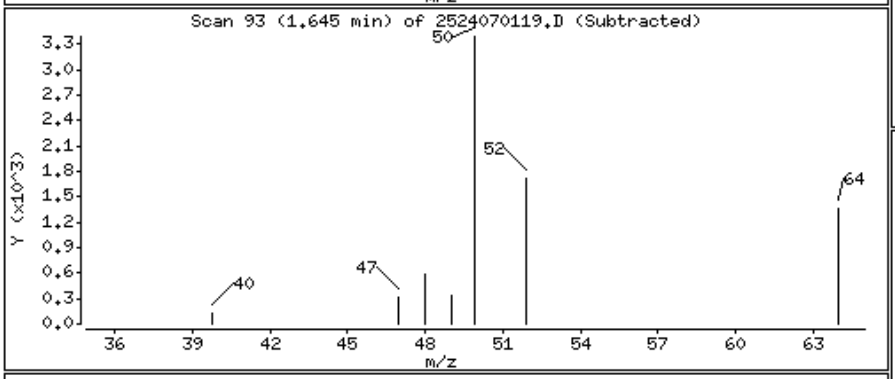
Purge Volume: 5.0 Operator: TMP

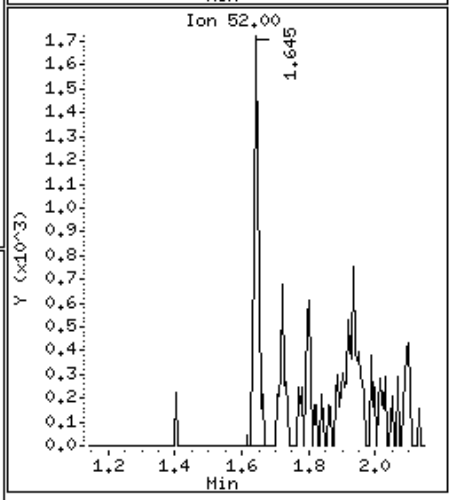
Column phase: DB-VRX Column diameter: 0.25

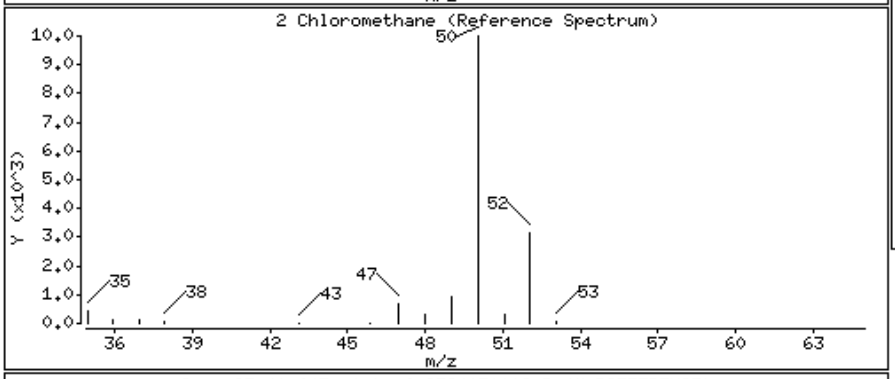
2 Chloromethane Concentration: 0.379606 ug/L

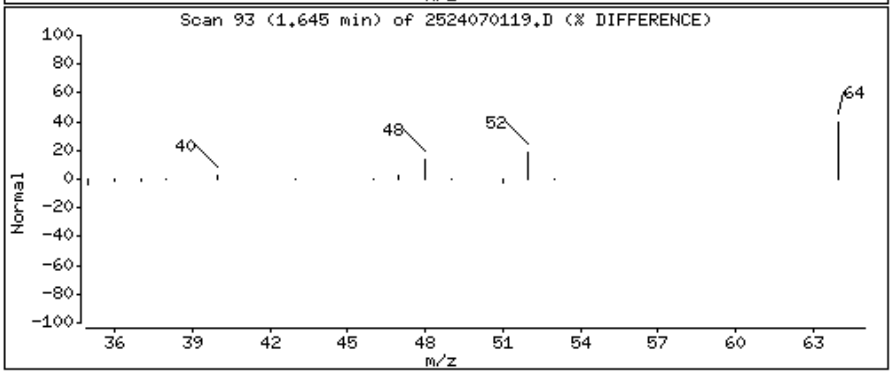












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 3

Date : 01-JUL-2024 16:00

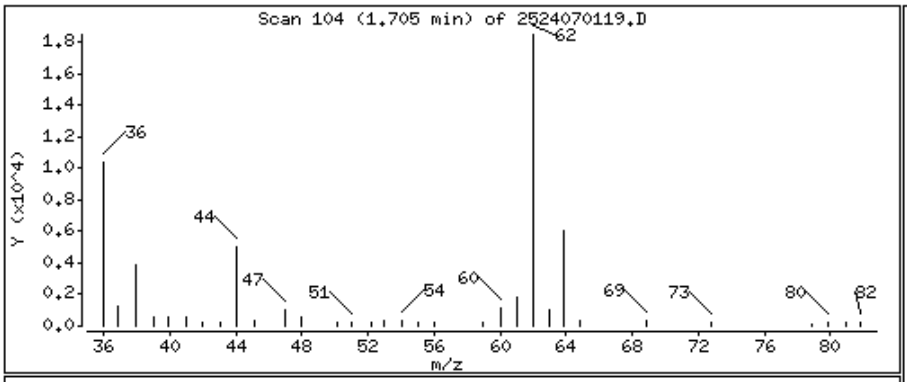
Client ID: ICT13A_062024 Instrument: ms25.i

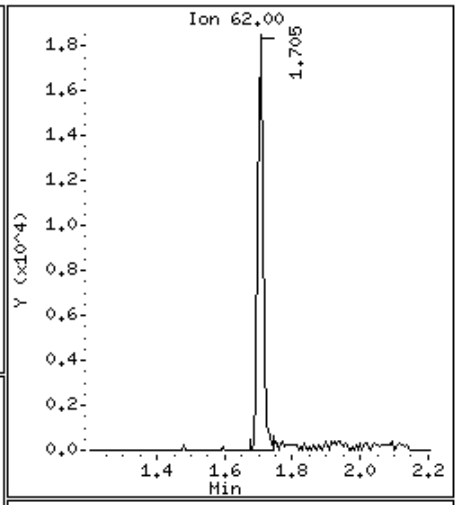
Sample Info: 3366026012;;1;;;;;

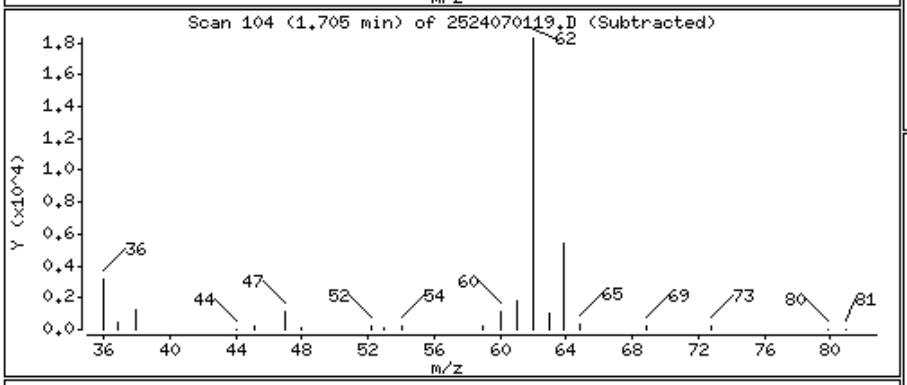
Purge Volume: 5.0 Operator: TMP

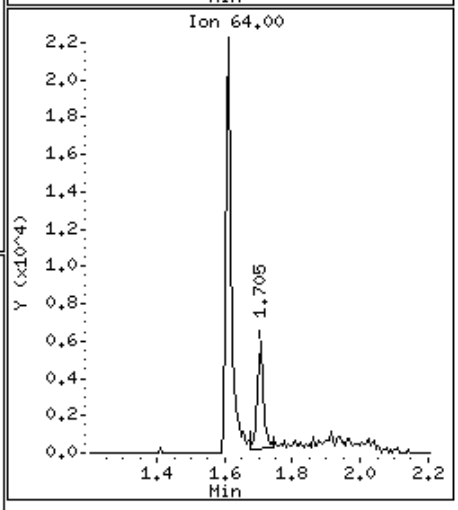
Column phase: DB-VRX Column diameter: 0.25

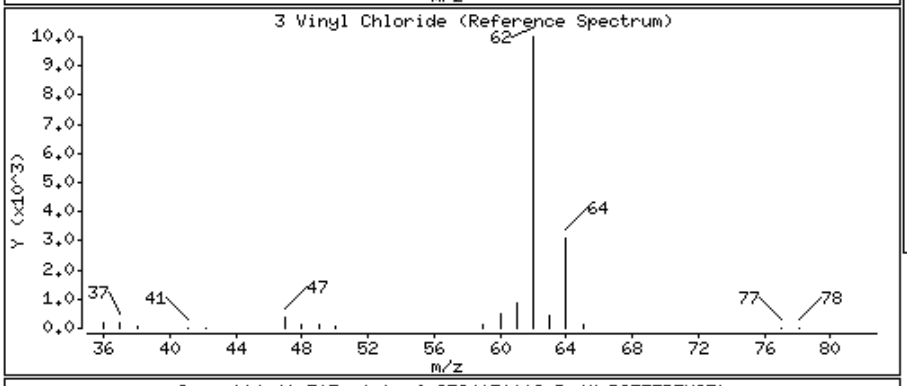
3 Vinyl Chloride Concentration: 1.34431 ug/L

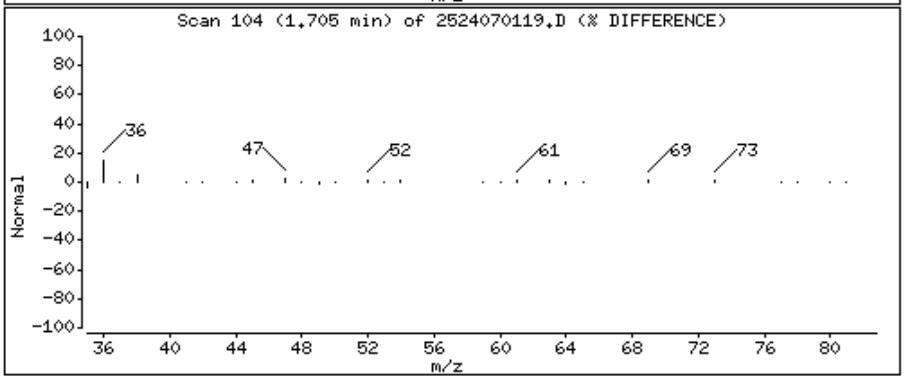












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 4

Date : 01-JUL-2024 16:00

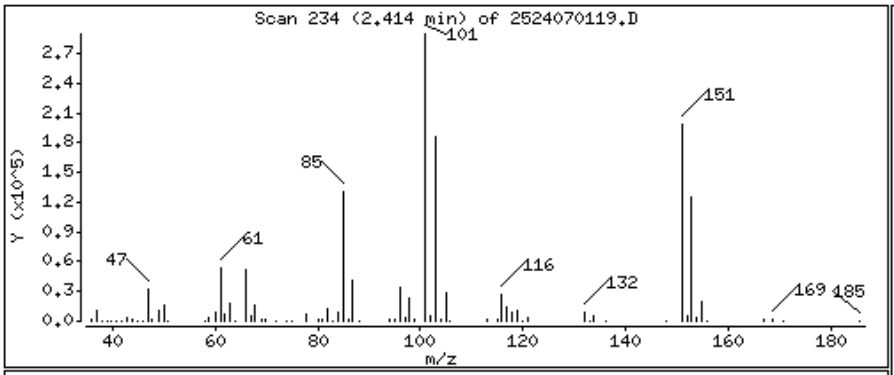
Client ID: ICT13A_062024 Instrument: ms25.i

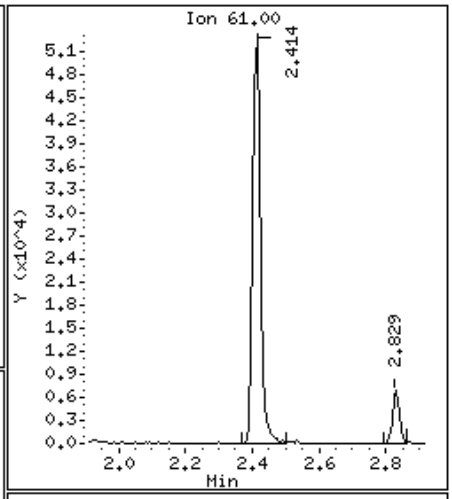
Sample Info: 3366026012;;1;;;;;

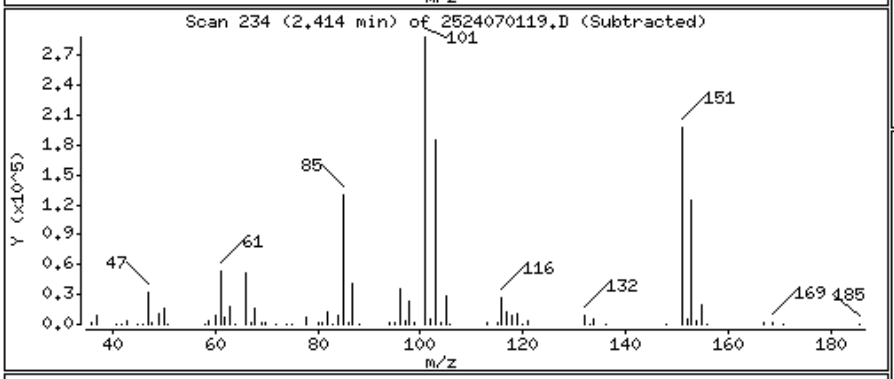
Purge Volume: 5.0 Operator: TMP

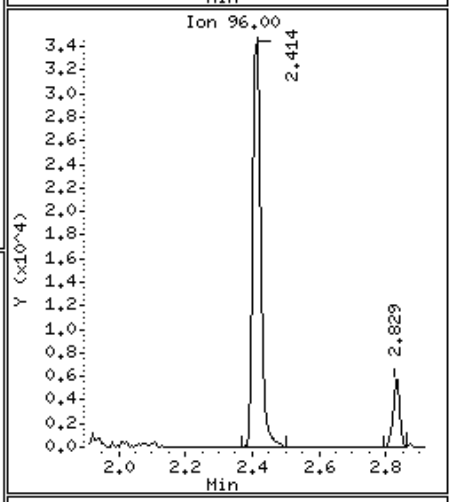
Column phase: DB-VRX Column diameter: 0.25

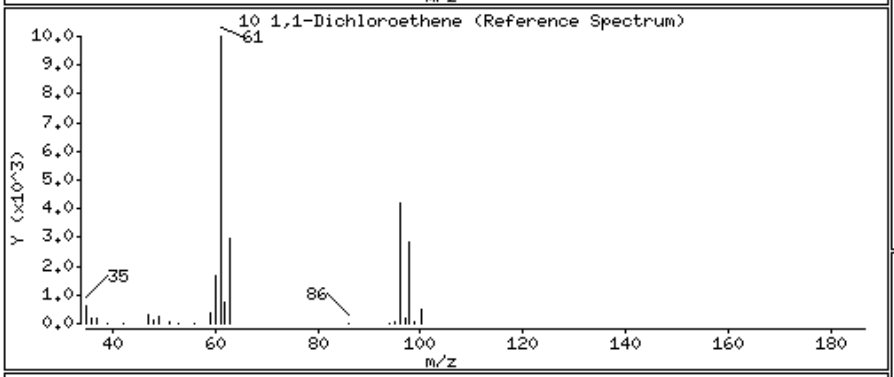
10 1,1-Dichloroethene Concentration: 7.78478 ug/L

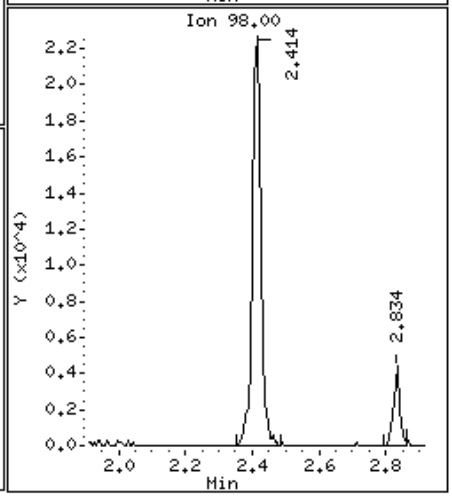


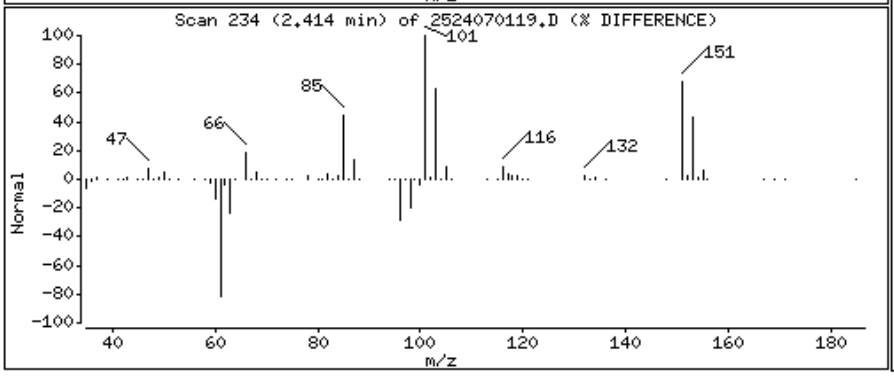












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 5

Date : 01-JUL-2024 16:00

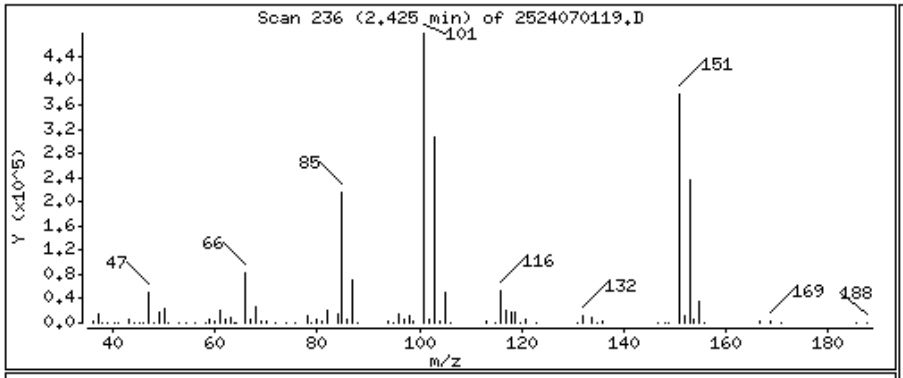
Client ID: ICT13A_062024 Instrument: ms25.i

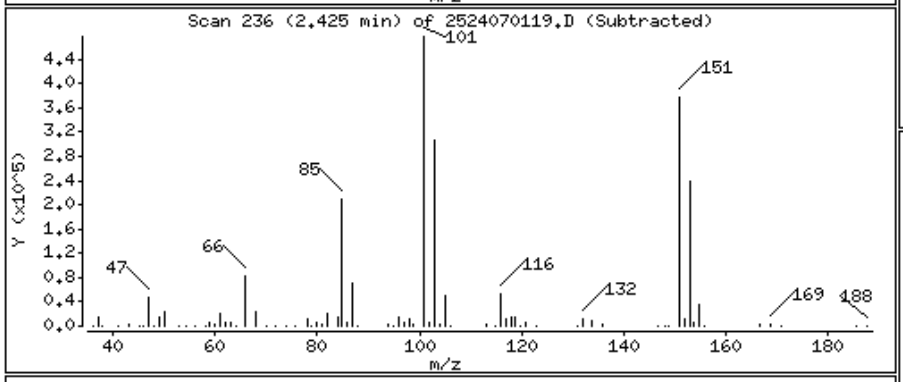
Sample Info: 3366026012;;1;;;;;

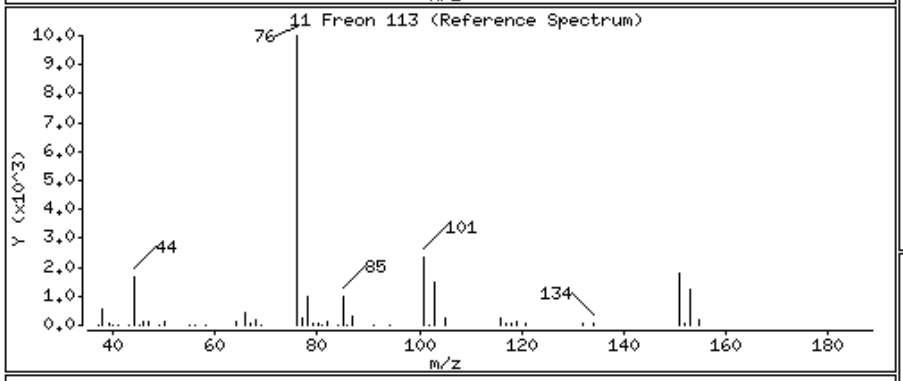
Purge Volume: 5.0 Operator: TMP

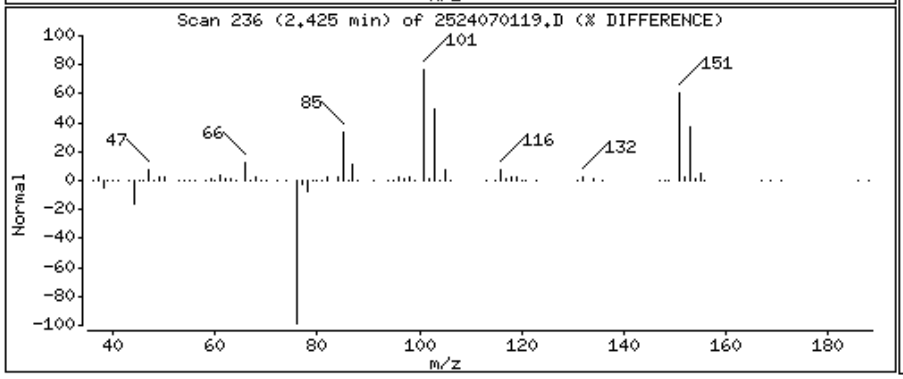
Column phase: DB-VRX Column diameter: 0.25

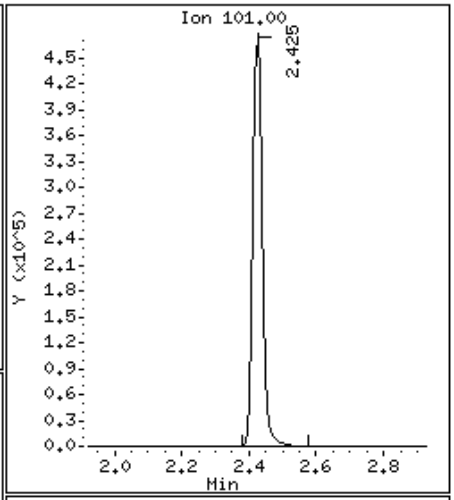
11 Freon 113 Concentration: 122.863 ug/L

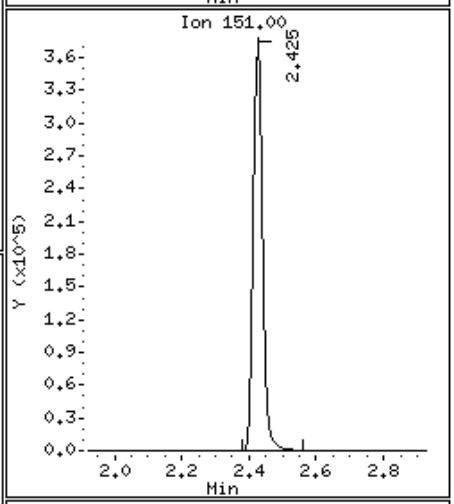


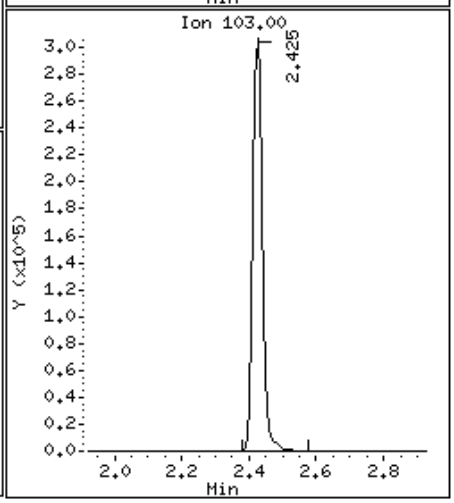












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 6

Date : 01-JUL-2024 16:00

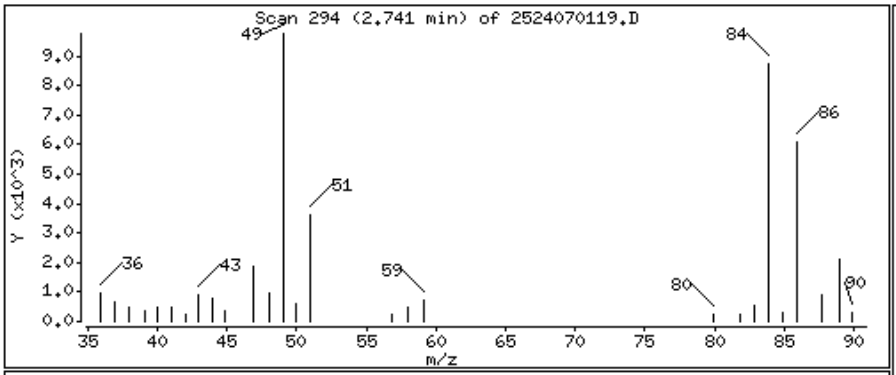
Client ID: ICT13A_062024 Instrument: ms25.i

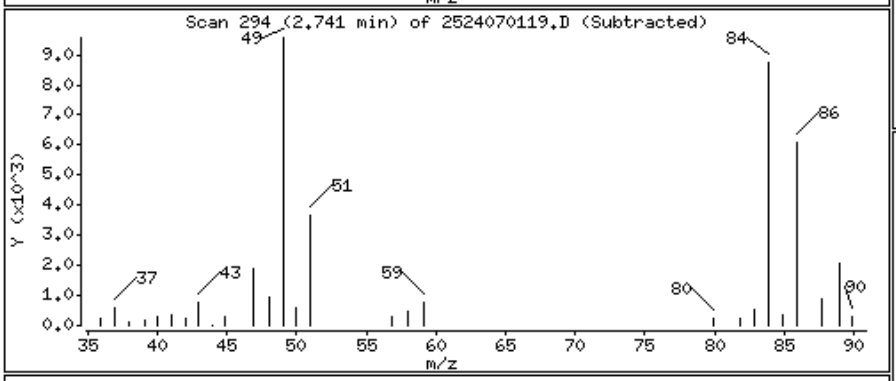
Sample Info: 3366026012;;1;;;;;

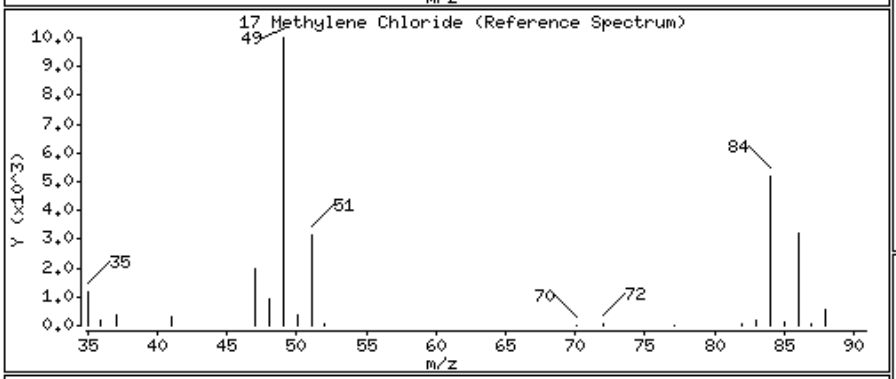
Purge Volume: 5.0 Operator: TMP

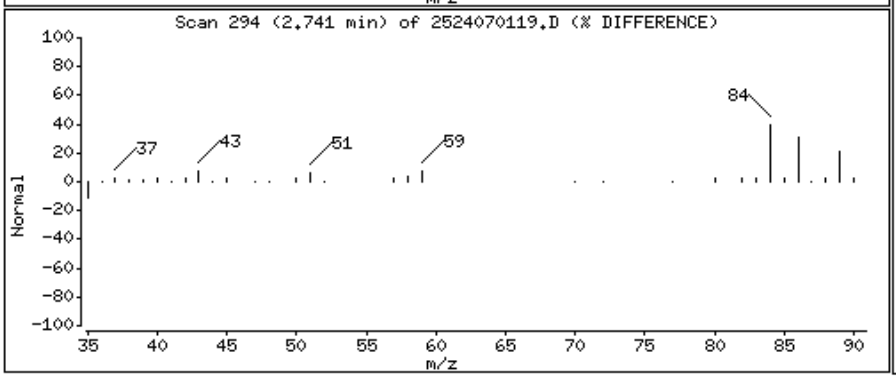
Column phase: DB-VRX Column diameter: 0.25

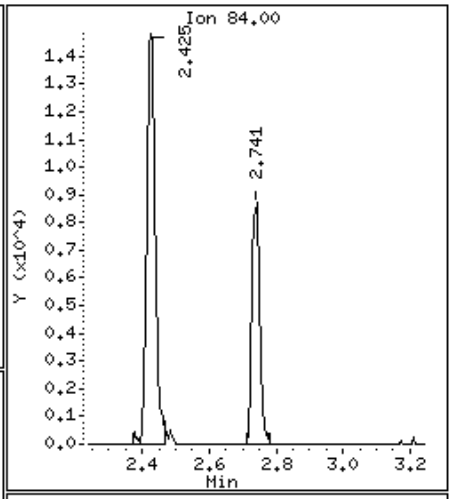
17 Methylene Chloride Concentration: 1.56727 ug/L

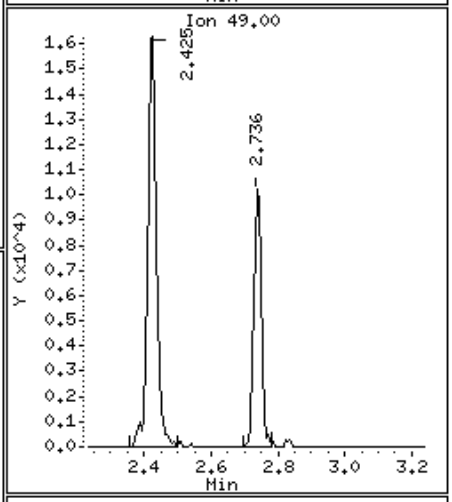


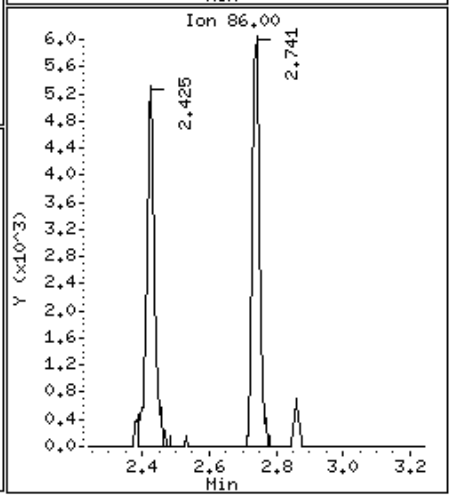












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 7

Date : 01-JUL-2024 16:00

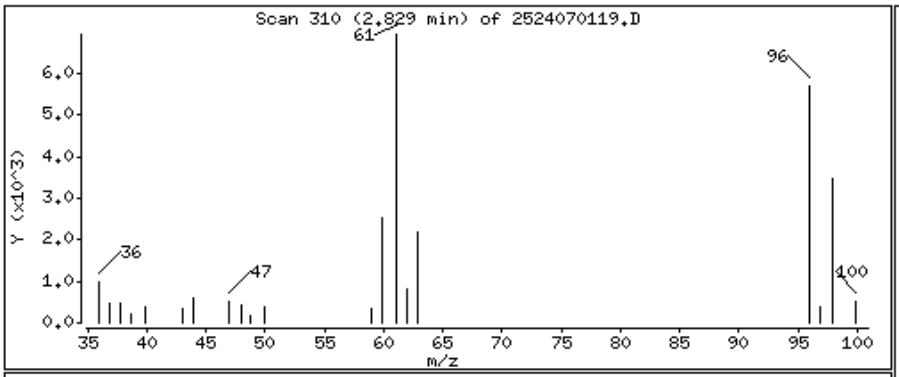
Client ID: ICT13A_062024 Instrument: ms25.i

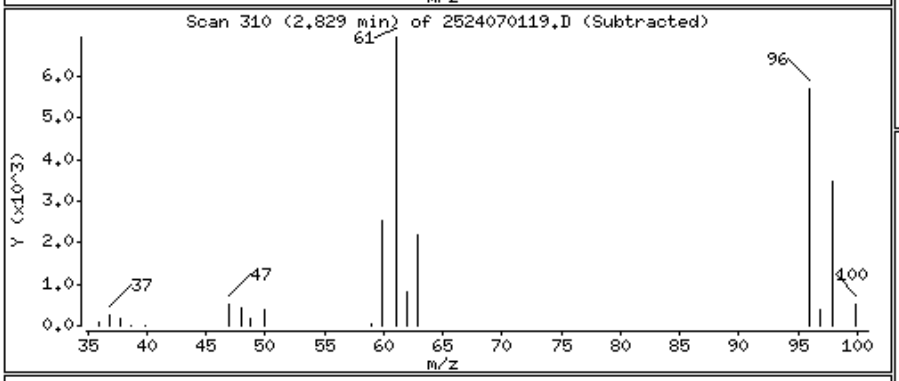
Sample Info: 3366026012;;1;;;;;

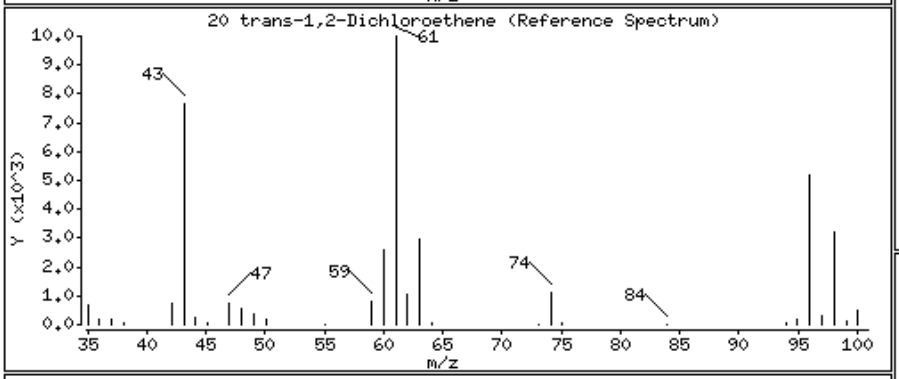
Purge Volume: 5.0 Operator: TMP

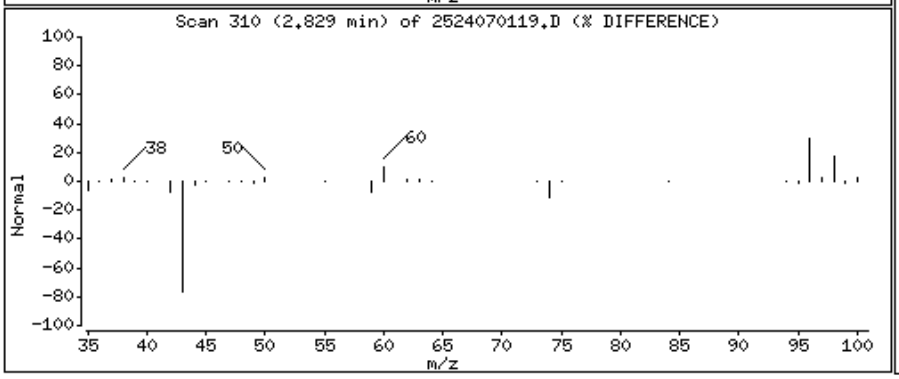
Column phase: DB-VRX Column diameter: 0.25

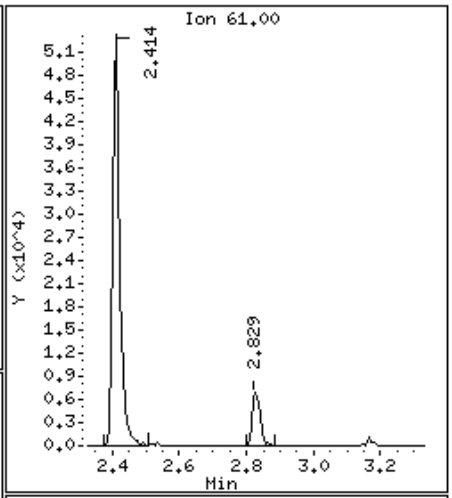
20 trans-1,2-Dichloroethene Concentration: 1.07241 ug/L

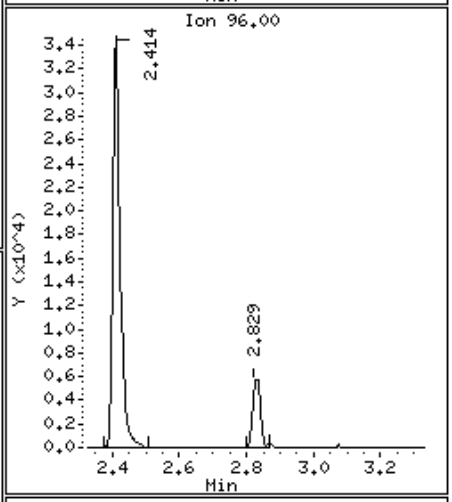


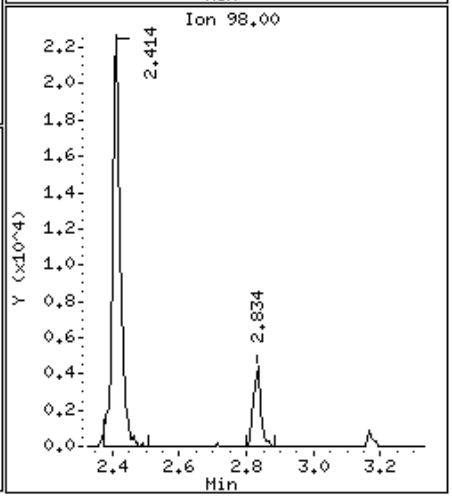












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 8

Date : 01-JUL-2024 16:00

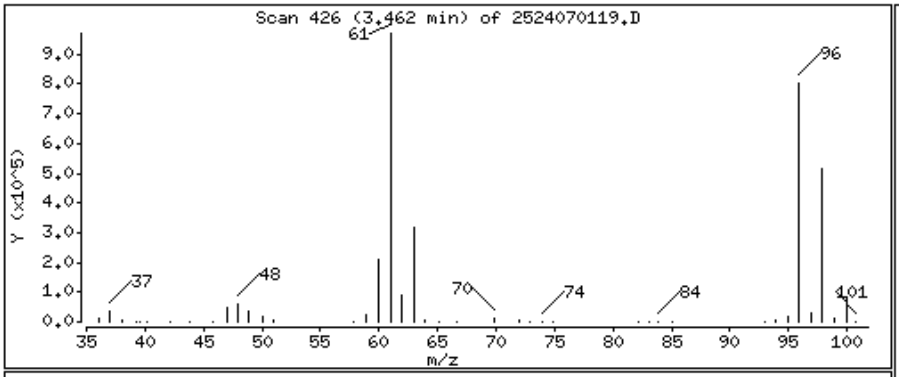
Client ID: ICT13A_062024 Instrument: ms25.i

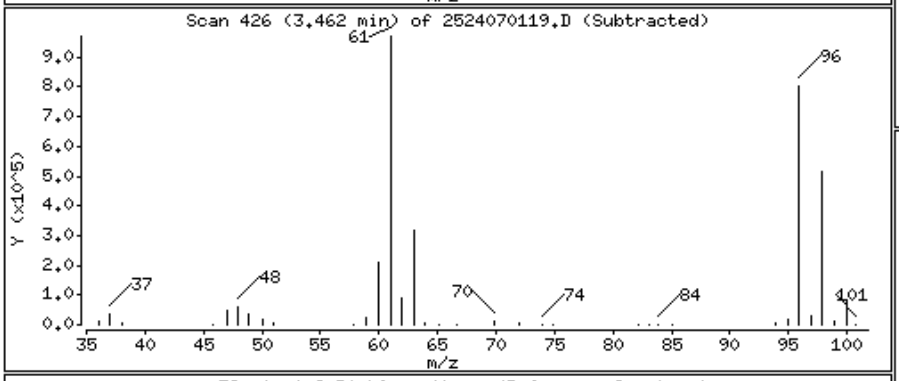
Sample Info: 3366026012;;1;;;;;

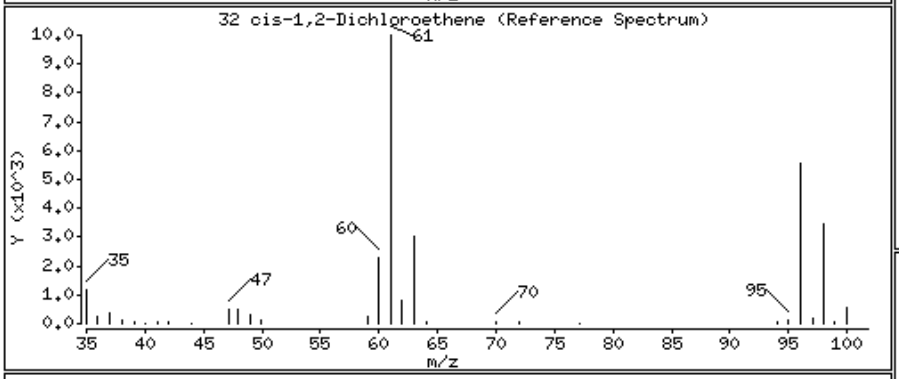
Purge Volume: 5.0 Operator: TMP

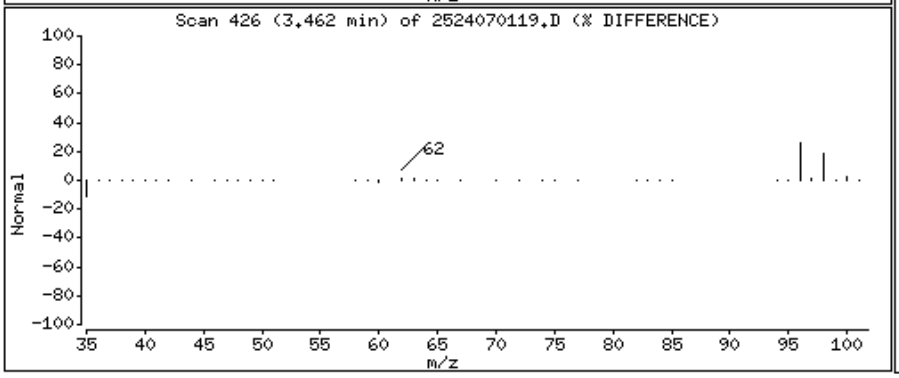
Column phase: DB-VRX Column diameter: 0.25

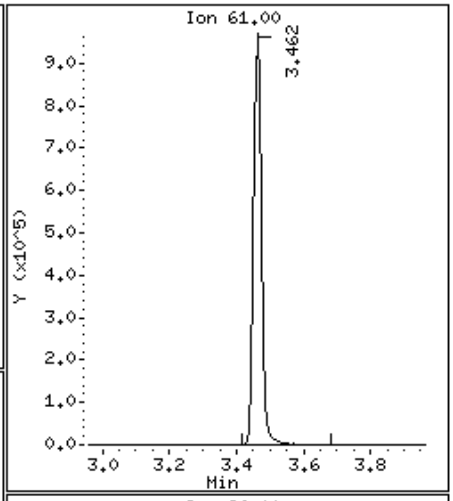
32 cis-1,2-Dichloroethene Concentration: 147.018 ug/L

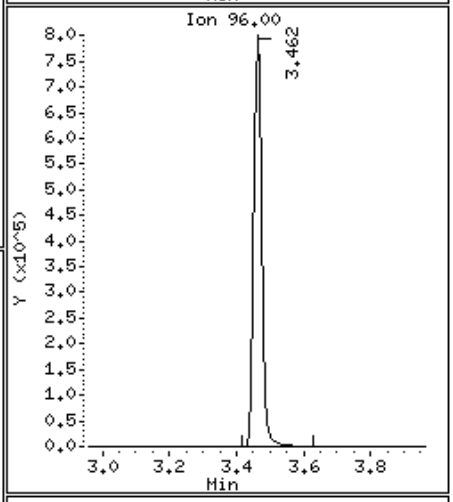


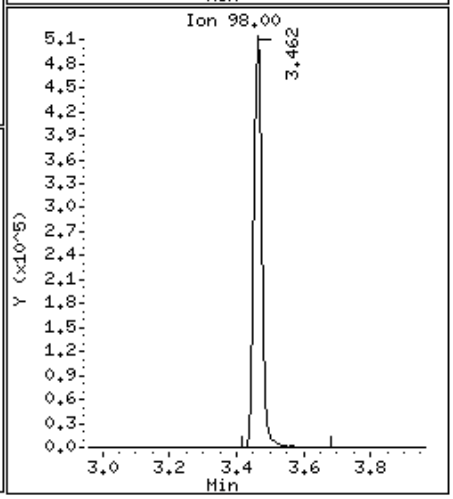












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 9

Date : 01-JUL-2024 16:00

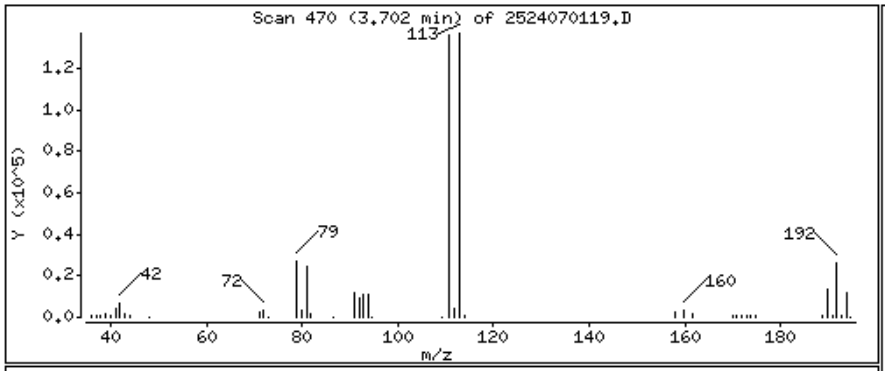
Client ID: ICT13A_062024 Instrument: ms25.i

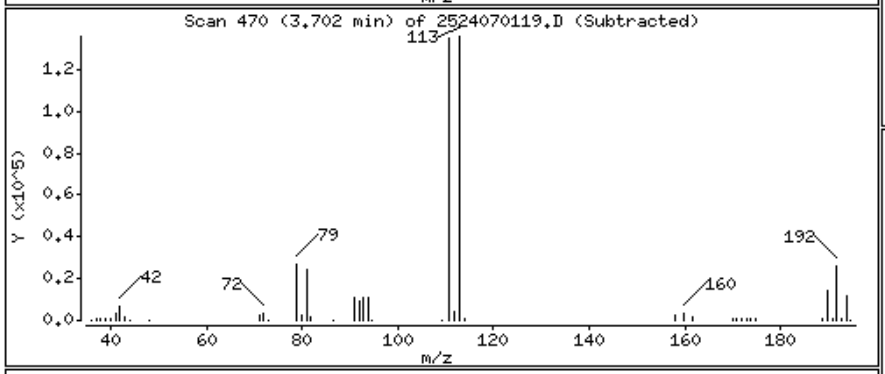
Sample Info: 3366026012;;1;;;;;

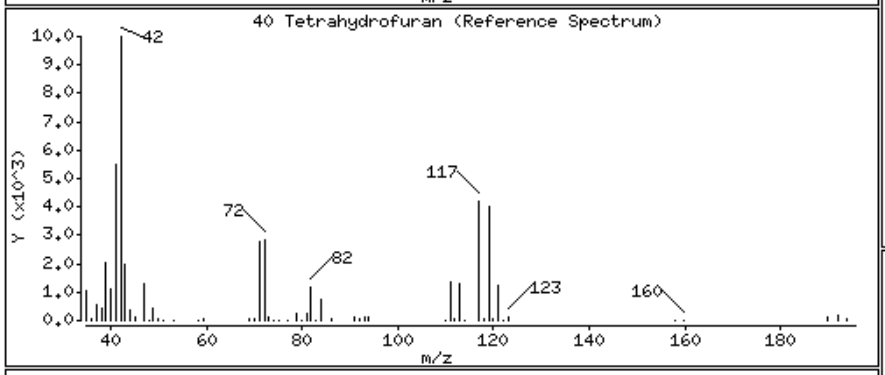
Purge Volume: 5.0 Operator: TMP

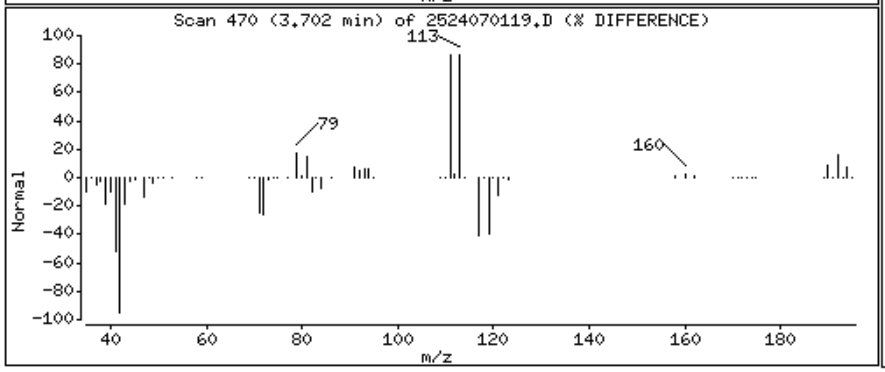
Column phase: DB-VRX Column diameter: 0.25

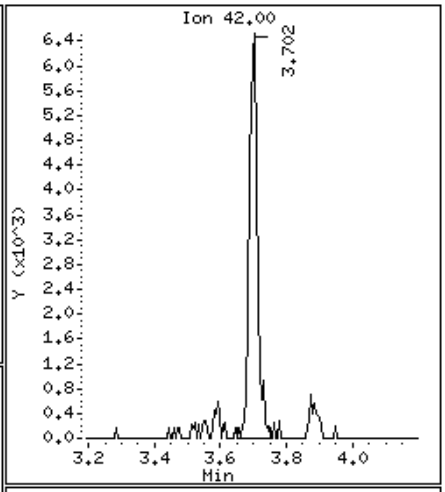
40 Tetrahydrofuran Concentration: 4.22942 ug/L

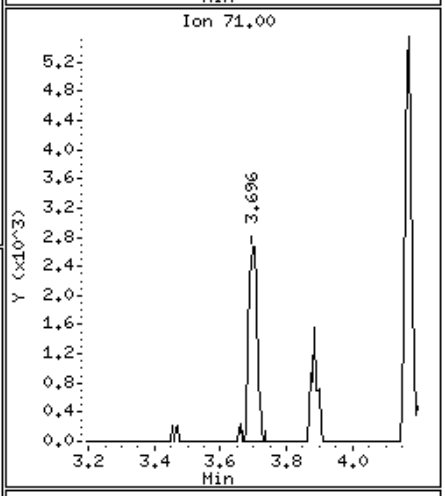


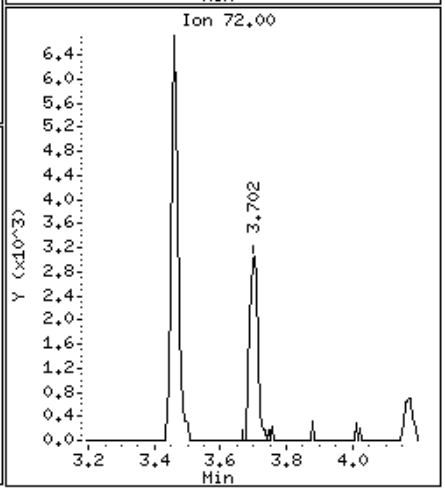












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 10

Date : 01-JUL-2024 16:00

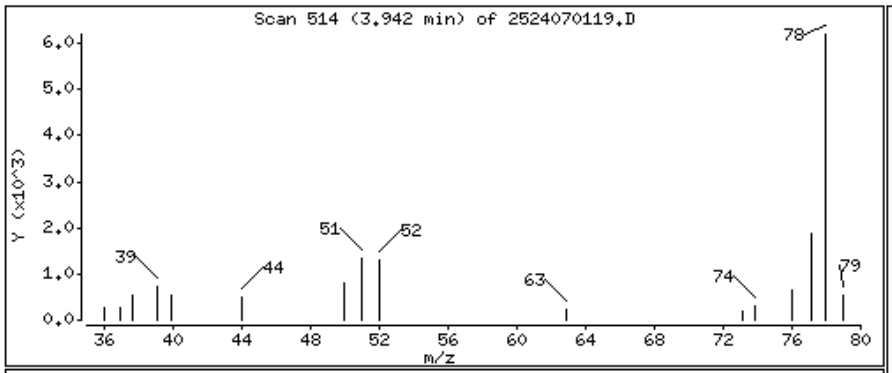
Client ID: ICT13A_062024 Instrument: ms25.i

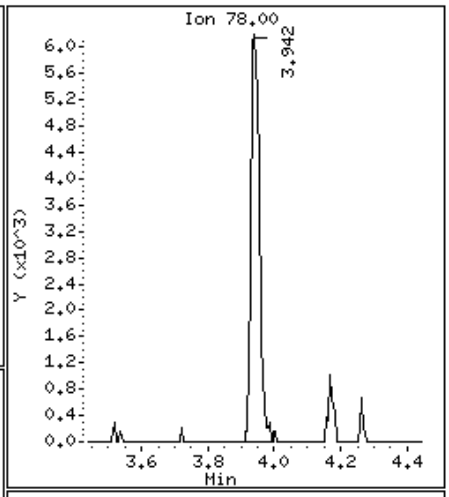
Sample Info: 3366026012;;1;;;;;

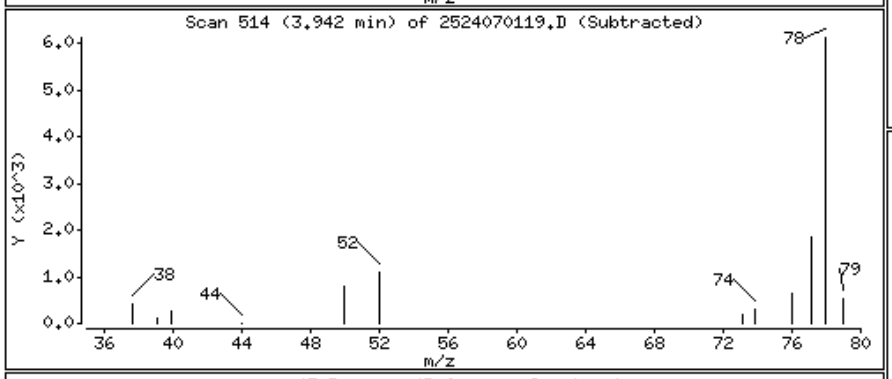
Purge Volume: 5.0 Operator: TMP

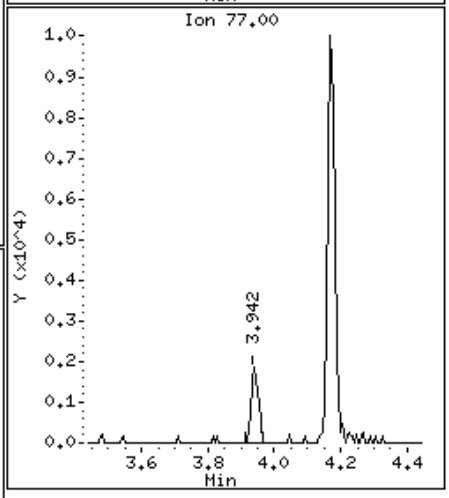
Column phase: DB-VRX Column diameter: 0.25

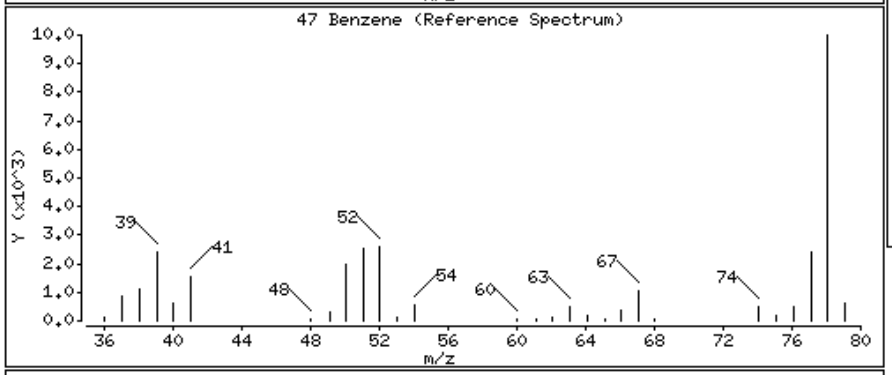
47 Benzene Concentration: 0.308270 ug/L

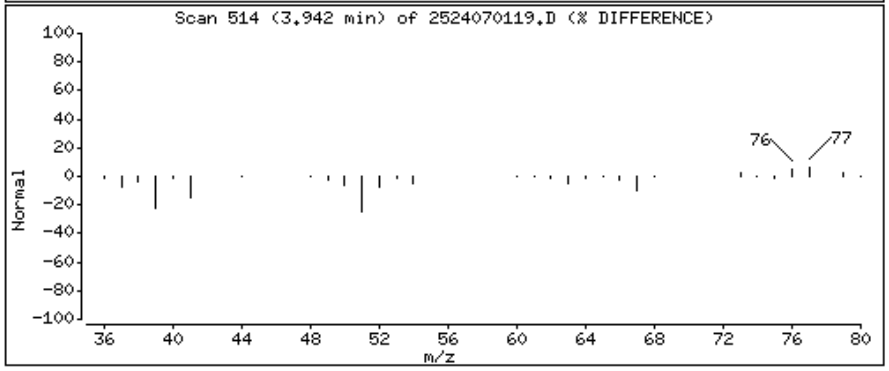












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 11

Date : 01-JUL-2024 16:00

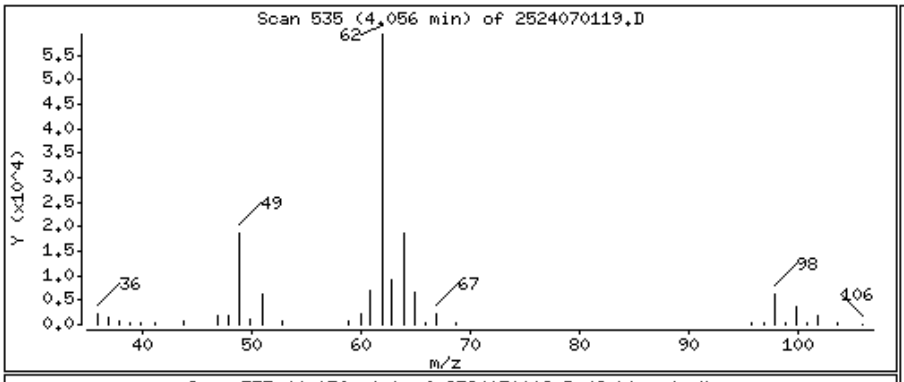
Client ID: ICT13A_062024 Instrument: ms25.i

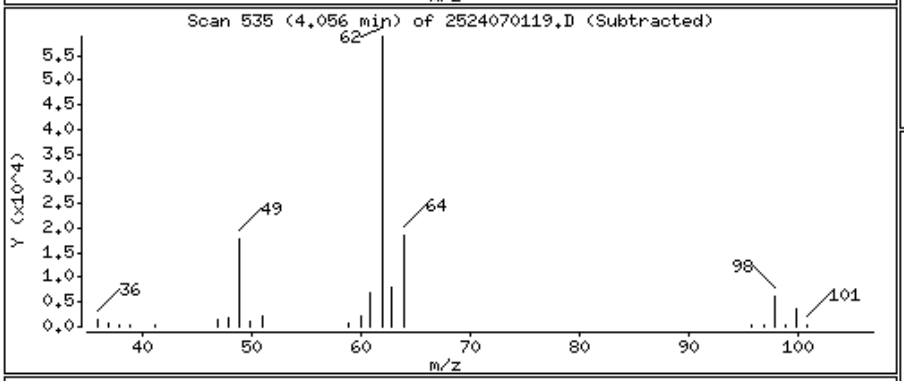
Sample Info: 3366026012;;1;;;;;

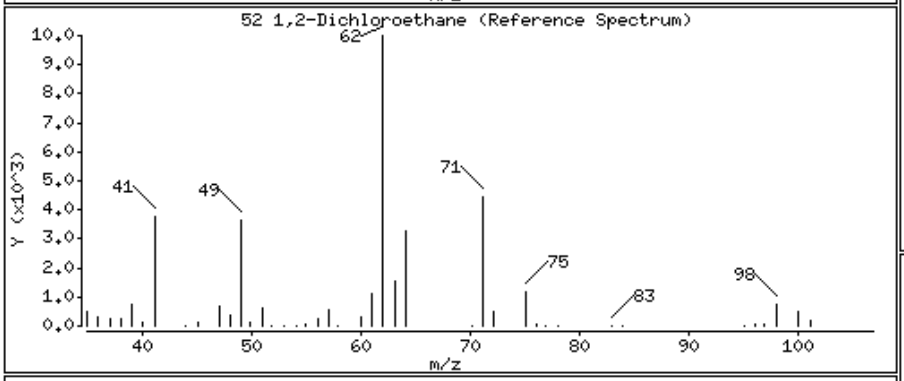
Purge Volume: 5.0 Operator: TMP

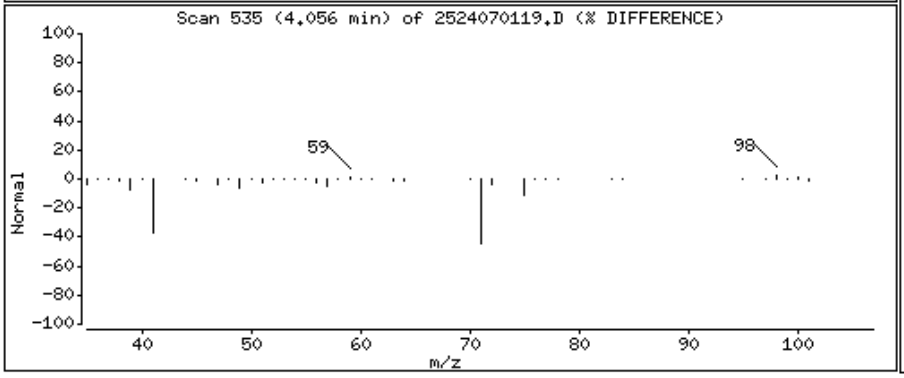
Column phase: DB-VRX Column diameter: 0.25

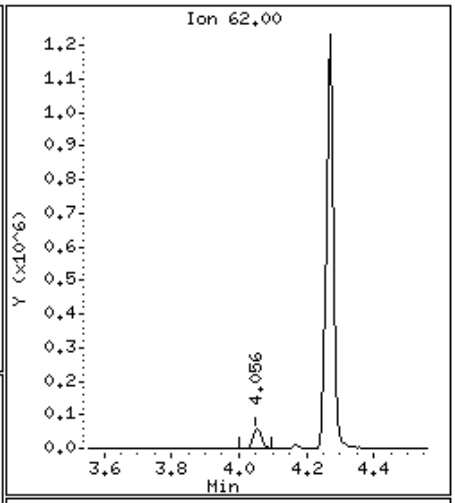
52 1,2-Dichloroethane Concentration: 8.59031 ug/L

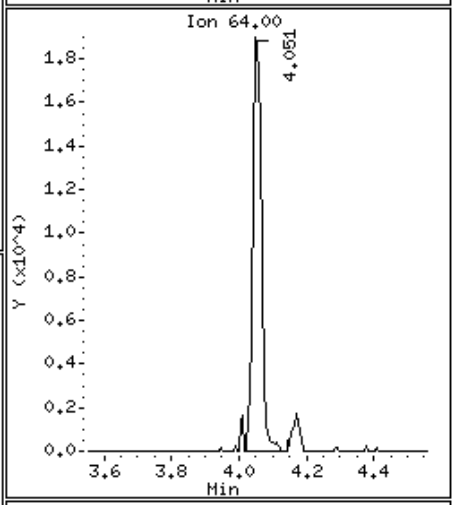


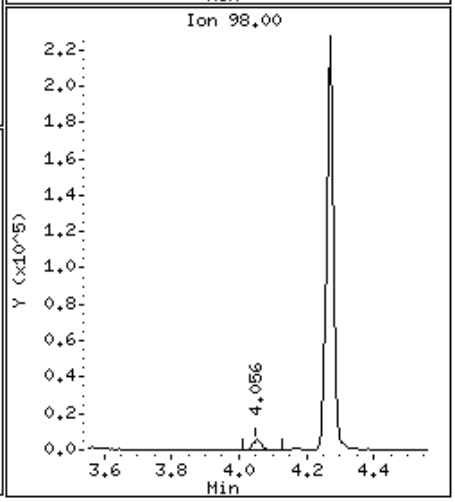












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 12

Date : 01-JUL-2024 16:00

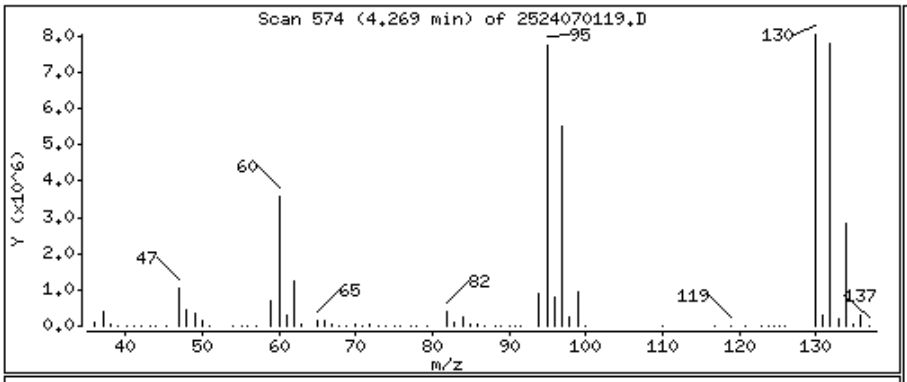
Client ID: ICT13A_062024 Instrument: ms25.i

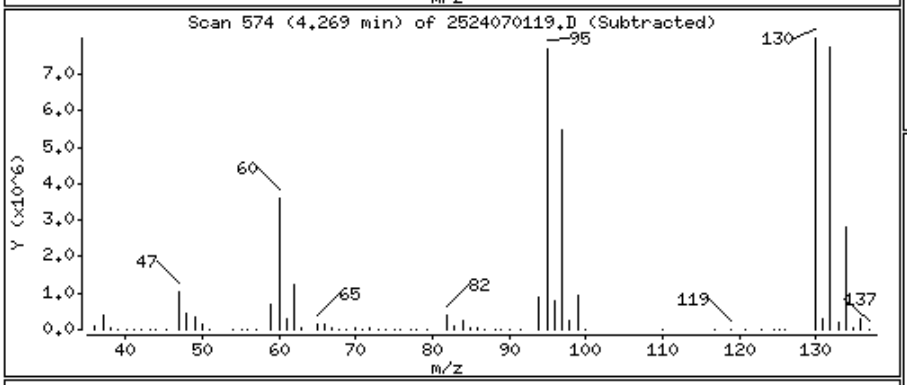
Sample Info: 3366026012;;1;;;;;

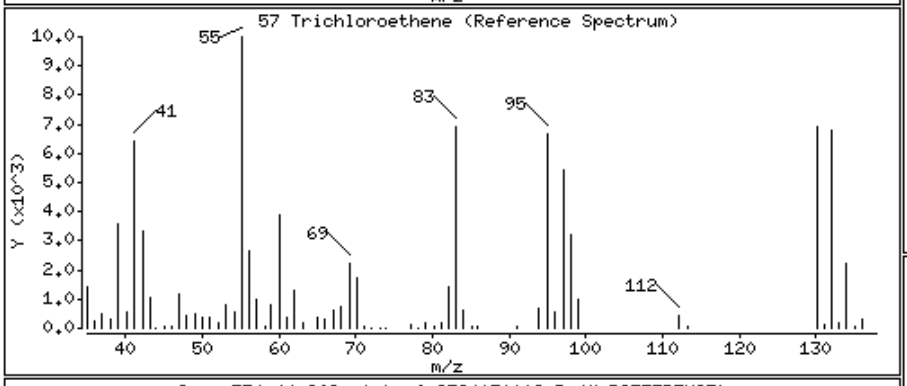
Purge Volume: 5.0 Operator: TMP

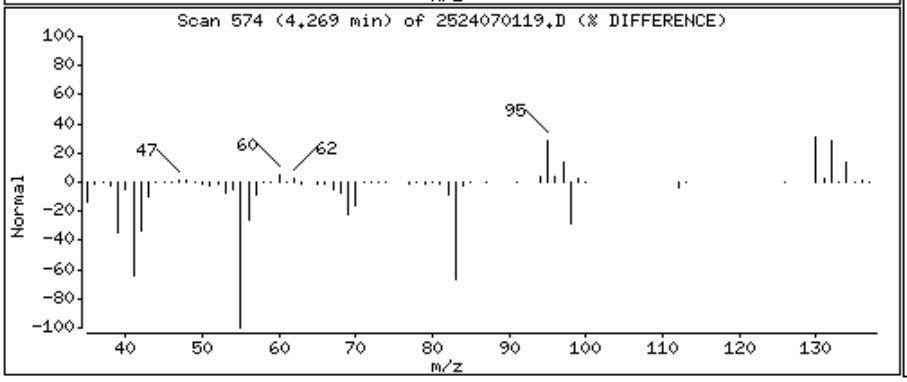
Column phase: DB-VRX Column diameter: 0.25

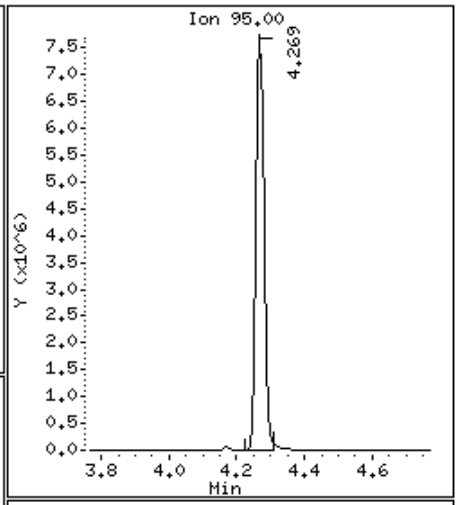
57 Trichloroethene Concentration: 1406.01 ug/L

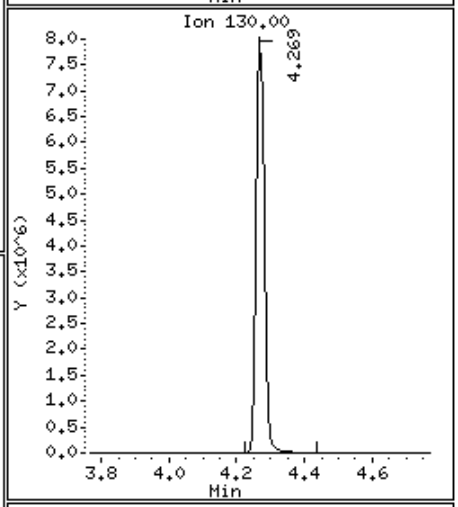


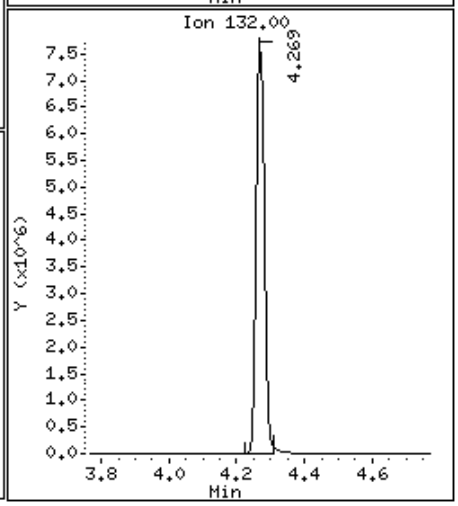












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 13

Date : 01-JUL-2024 16:00

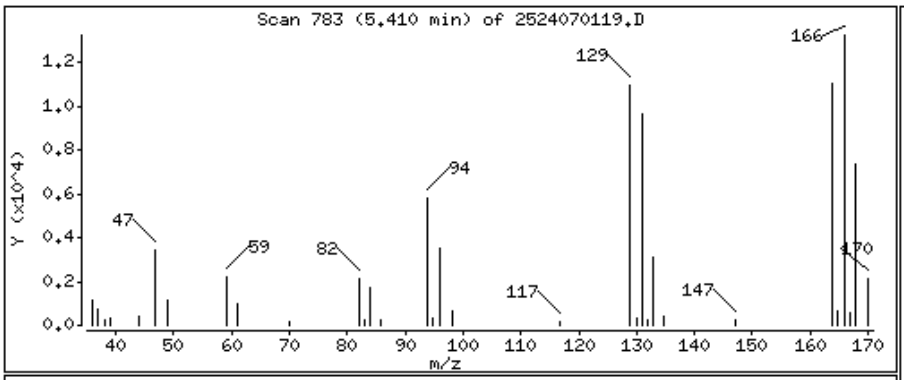
Client ID: ICT13A_062024 Instrument: ms25.i

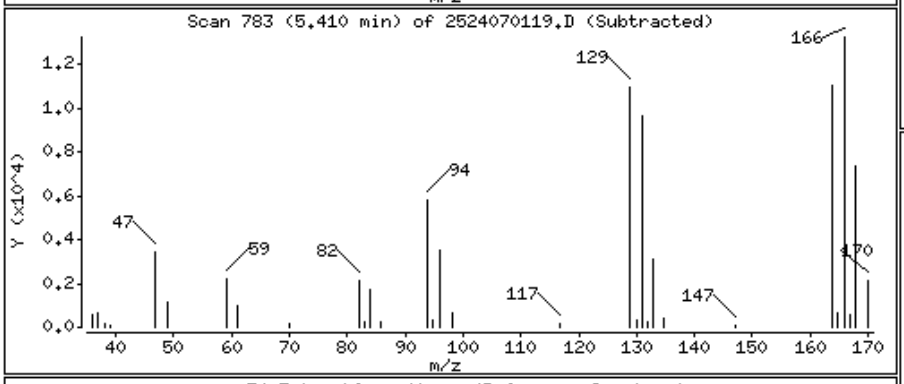
Sample Info: 3366026012;;1;;;;;

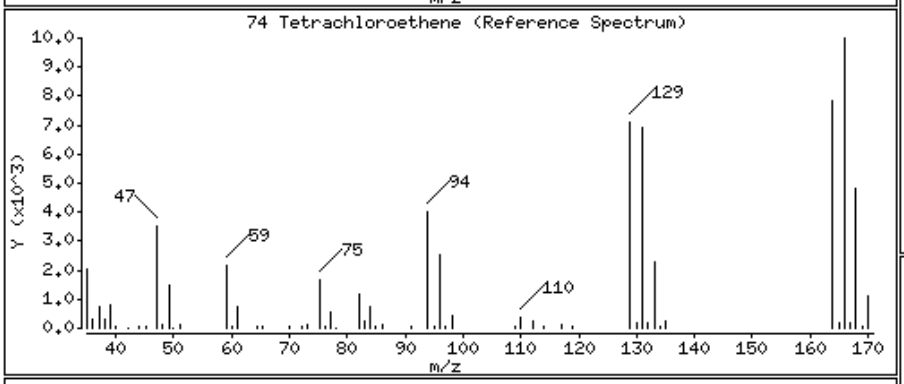
Purge Volume: 5.0 Operator: TMP

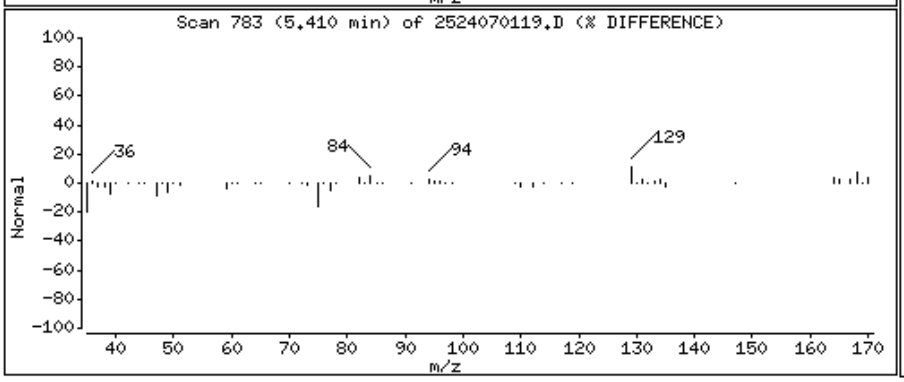
Column phase: DB-VRX Column diameter: 0.25

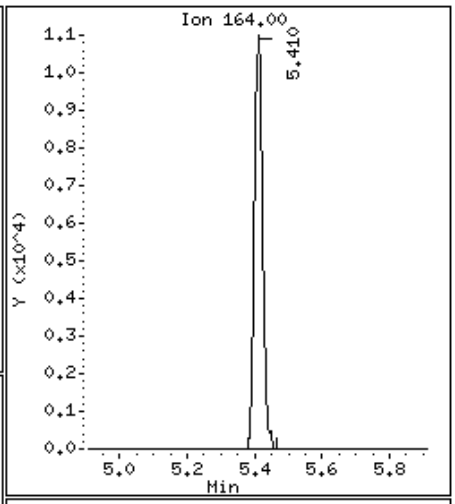
74 Tetrachloroethene Concentration: 2.46998 ug/L

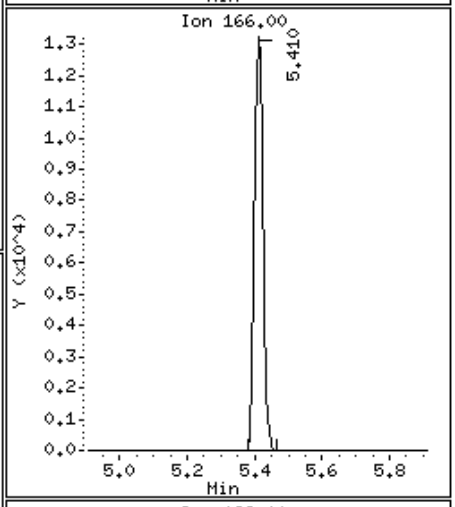


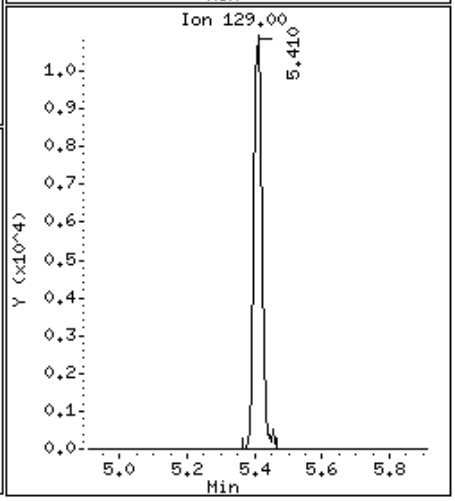












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D Page 14

Date : 01-JUL-2024 16:00

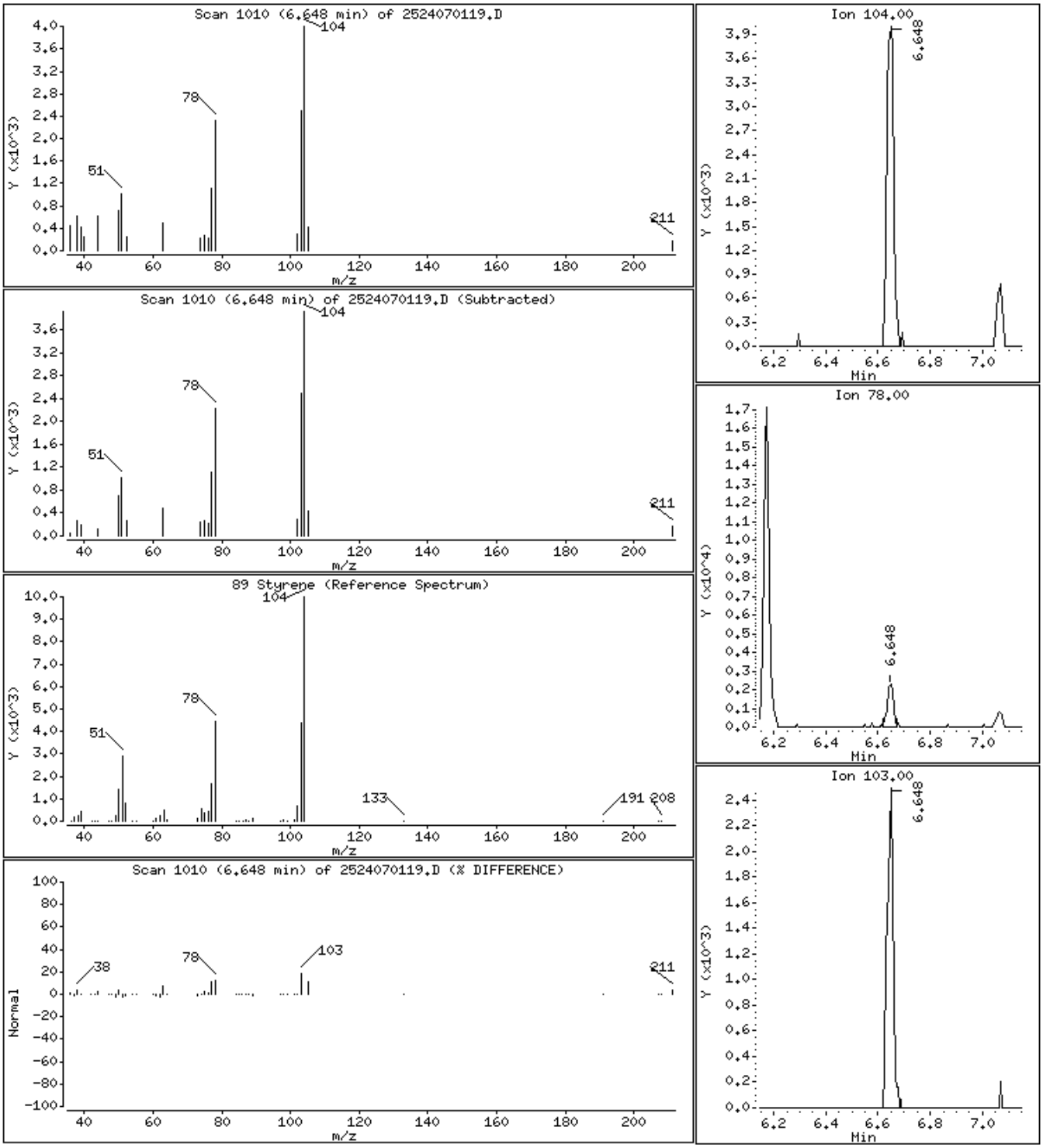
Client ID: ICT13A_062024 Instrument: ms25.i

Sample Info: 3366026012;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

89 Styrene Concentration: 0.651325 ug/L

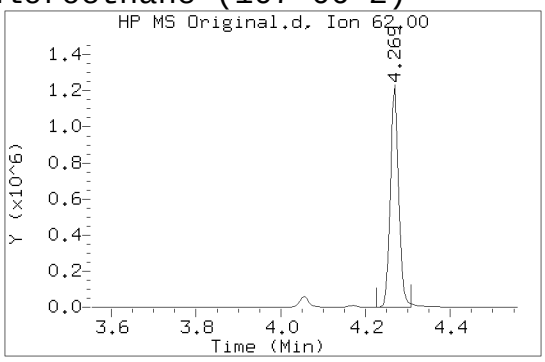


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070119.D
Inj Date : 01-JUL-2024 16:00
InstruID : ms25.i
LabSampID : 3366026012

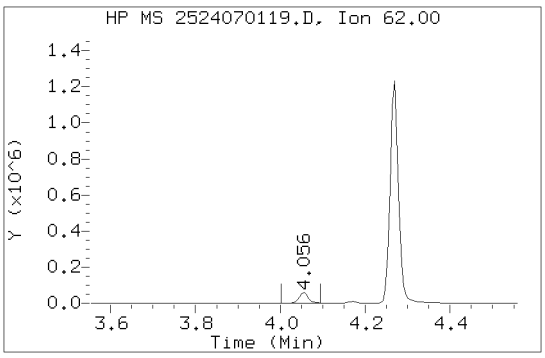
1,2-Dichloroethane (107-06-2)

Reason Code: H

BEFORE
MASS
62
AREA
1686343
HEIGHT
1232896
01-Jul-2024
18:59



AFTER
MASS
62
AREA
84446
HEIGHT
58461
02-Jul-2024
13:24



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MASS
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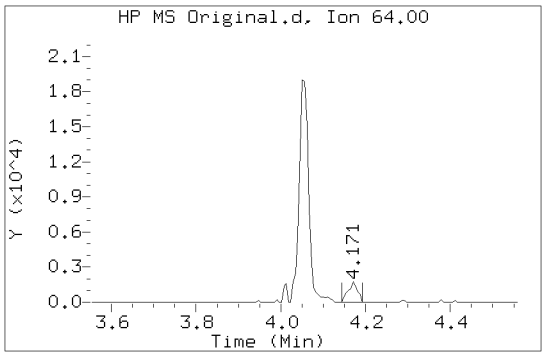
AREA
2645
HEIGHT
1743
01-Jul-2024
18:59



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MASS
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AREA
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HEIGHT
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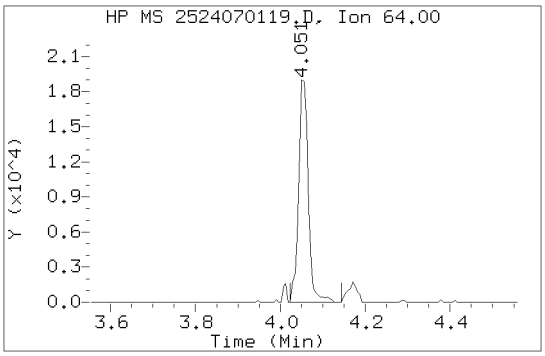
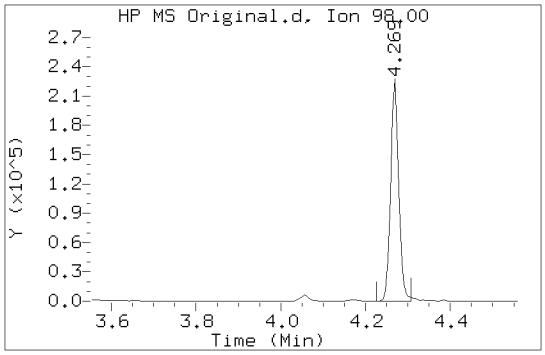
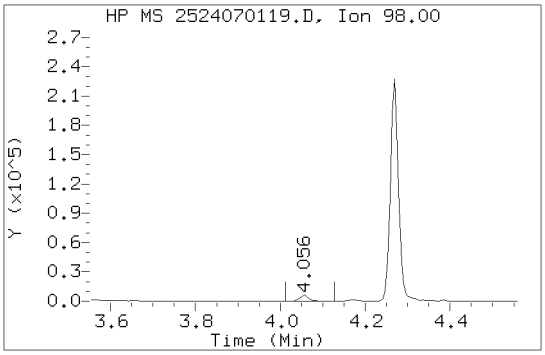
02-Jul-2024
13:24



BEFORE
MASS
98
AREA
303176
HEIGHT
227584
01-Jul-2024
18:59



AFTER
MASS
98
AREA
8820
HEIGHT
6284
02-Jul-2024
13:24



UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:24
Client ID: ICT13A_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407011
Inj Date: 01-JUL-2024 16:00
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
tert-Amyl Alcohol
Bromodichloromethane
1-Chlorohexane
1,1-Dichloro-2-propanone
Ethyl methacrylate
Isobutyl alcohol
Methyl cyclohexane
Toluene
Trichlorofluoromethane
tert-amyl methyl Ether
tert-Amyl Ethylether
2-Butanone
3-Chloro-1-propene
Dichlorofluoromethane
Heptane
Methacrylonitrile
2-Nitropropane
1,1,1-Trichloroethane

Data File: 2524070121.D Page 1
Report Date: 02-Jul-2024 13:25

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070121.D
Lab Smp Id: 3366026014 Client Smp ID: ICT13C_062024
Inj Date : 01-JUL-2024 16:41
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026014;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	33299	5.07984	5.07984	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070121.D Page 2
Report Date: 02-Jul-2024 13:25

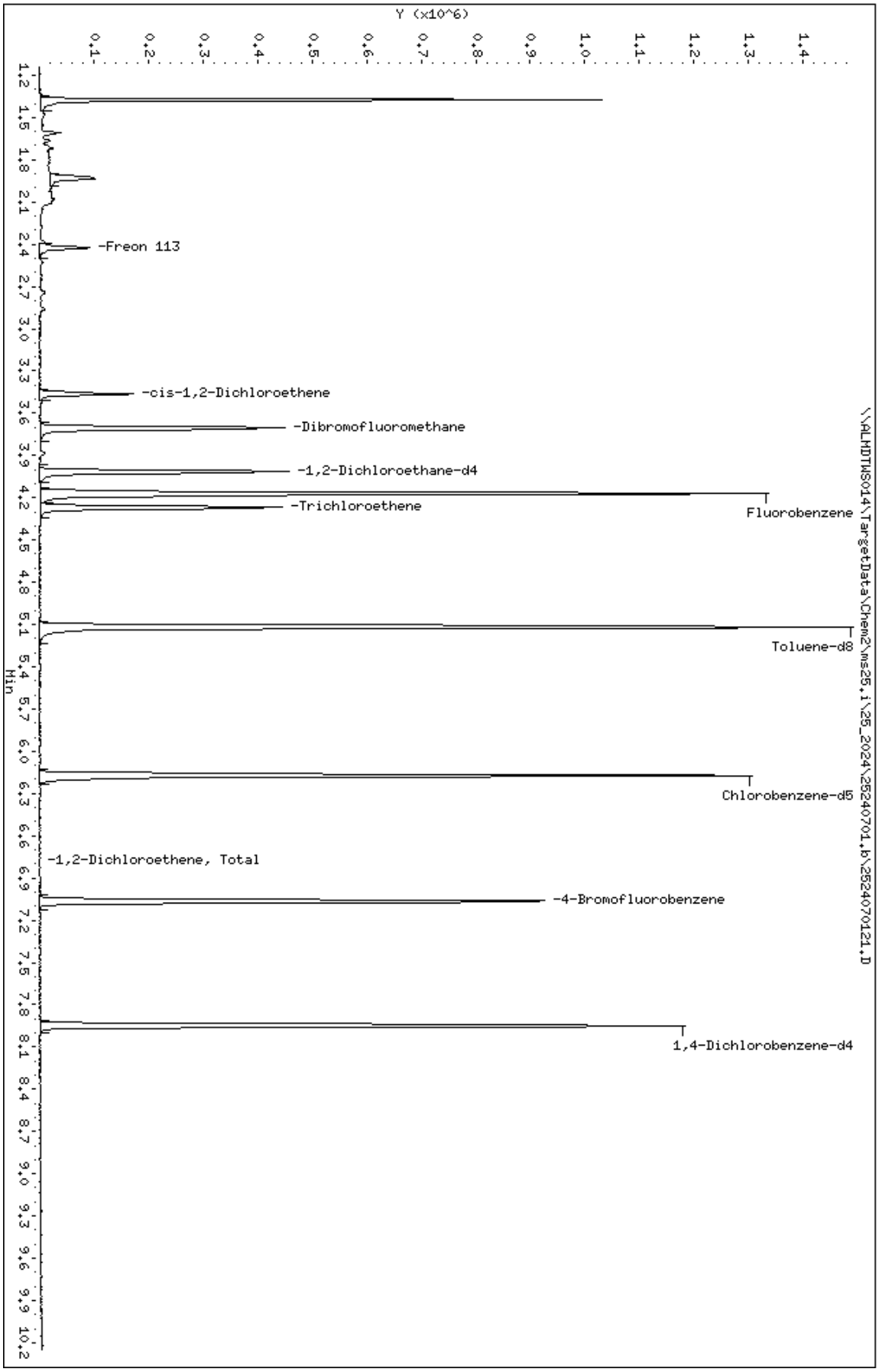
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	70517	7.61899	7.61899	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				70517	7.61899	7.61899	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	211323	27.6455	27.6455	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						RT
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	248605	30.8521	30.8521	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	968785	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	112588	14.6428	14.6428	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	862998	30.9498	30.9498	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070121.D Page 3
Report Date: 02-Jul-2024 13:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	352189	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	242815	30.3925	30.3925		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	288790	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070121.D
Date : 01-JUL-2024 16:41
Client ID: ICT13C_062024
Sample Info: 336602601401;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070121.D Page 2

Date : 01-JUL-2024 16:41

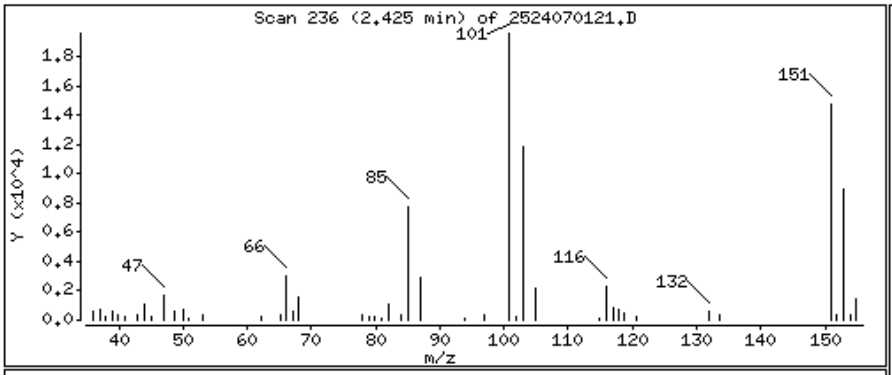
Client ID: ICT13C_062024 Instrument: ms25.i

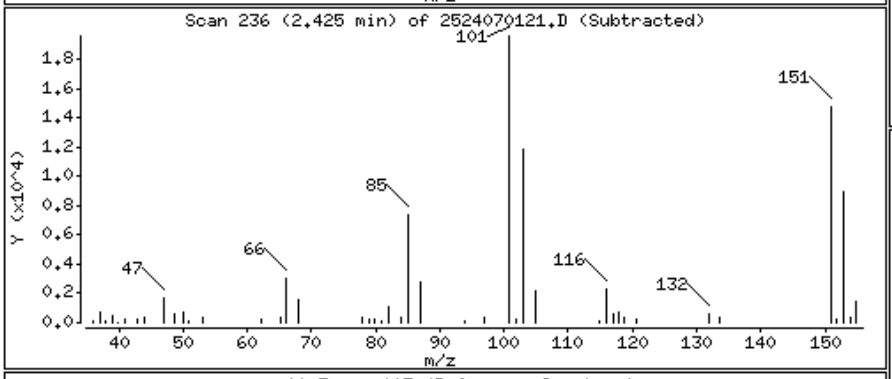
Sample Info: 3366026014;;1;;;;;

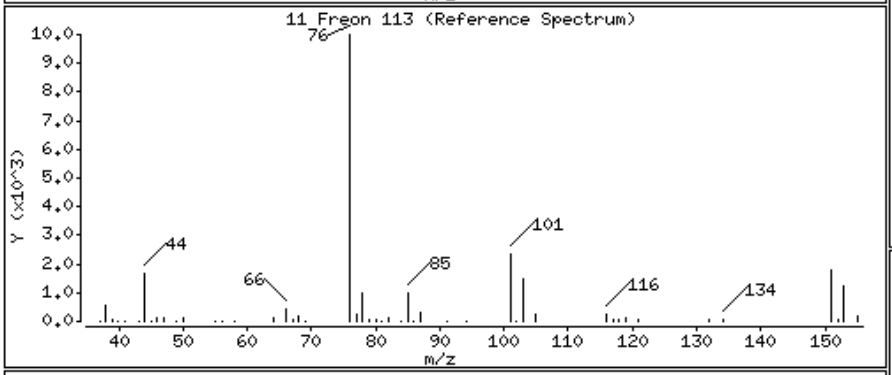
Purge Volume: 5.0 Operator: TMP

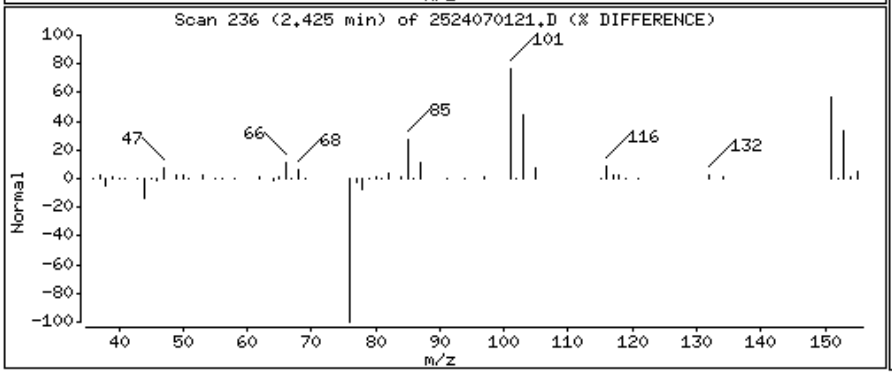
Column phase: DB-VRX Column diameter: 0.25

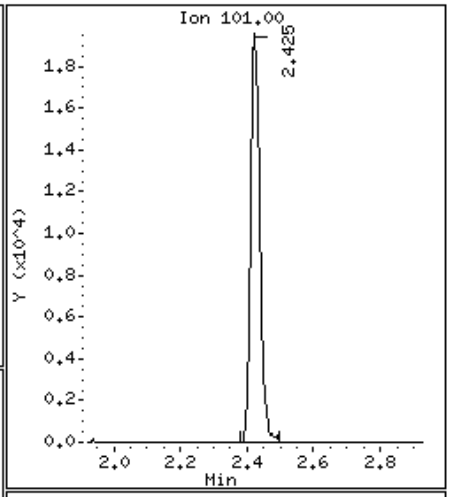
11 Freon 113 Concentration: 5.07984 ug/L

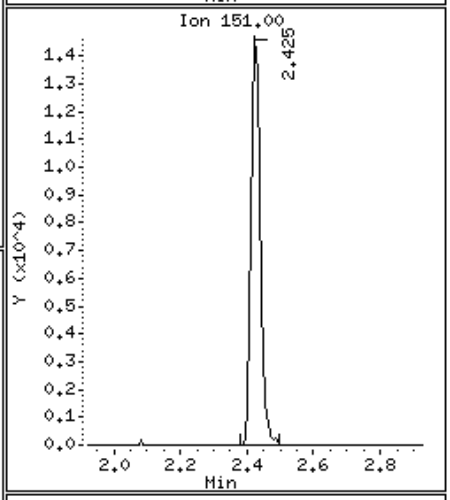


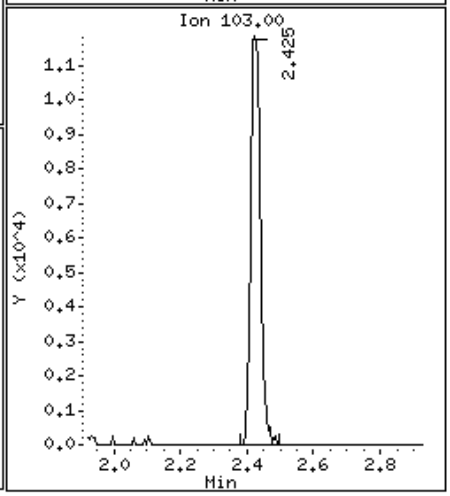












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070121.D Page 3

Date : 01-JUL-2024 16:41

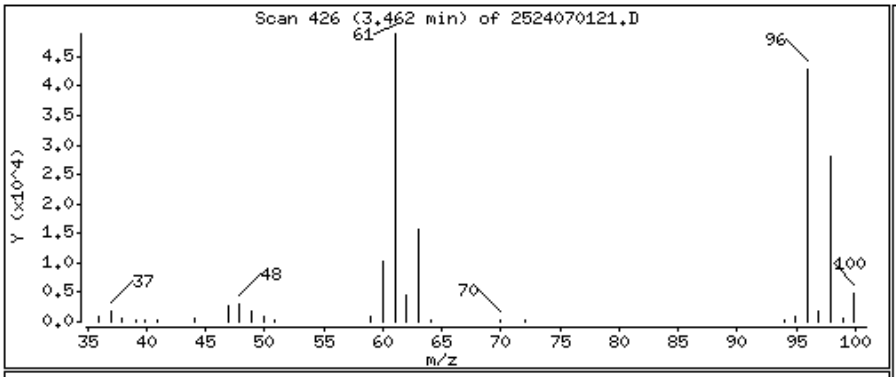
Client ID: ICT13C_062024 Instrument: ms25.i

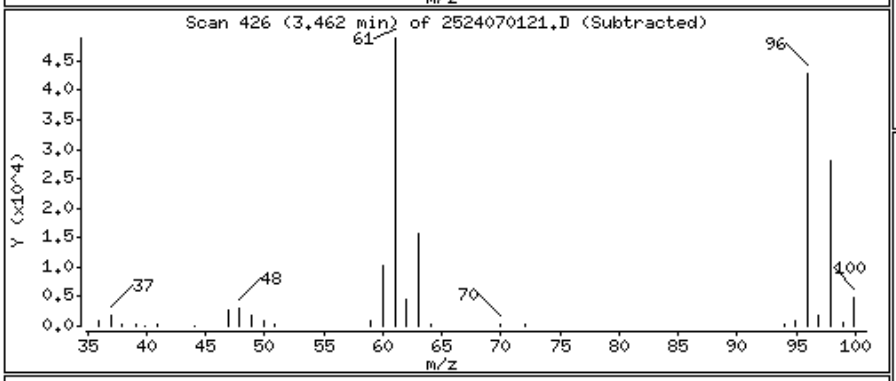
Sample Info: 3366026014;;1;;;;;

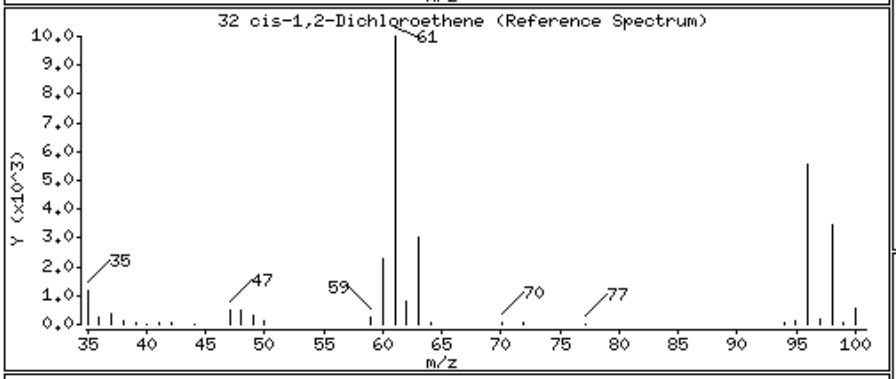
Purge Volume: 5.0 Operator: TMP

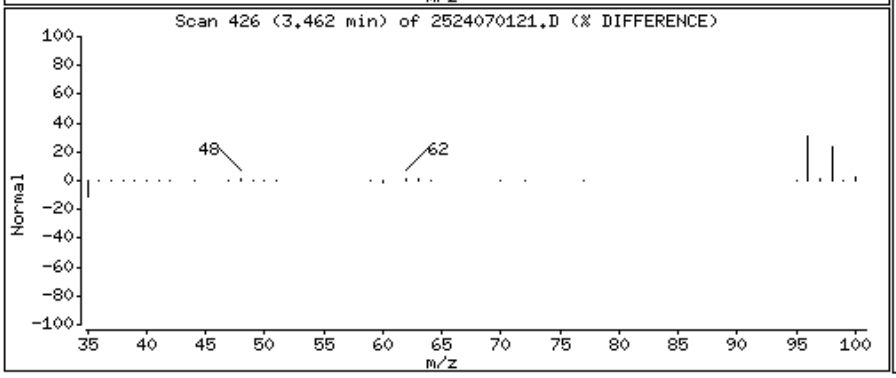
Column phase: DB-VRX Column diameter: 0.25

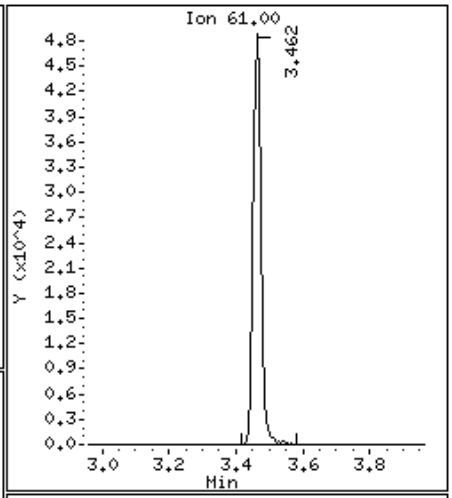
32 cis-1,2-Dichloroethene Concentration: 7.61899 ug/L

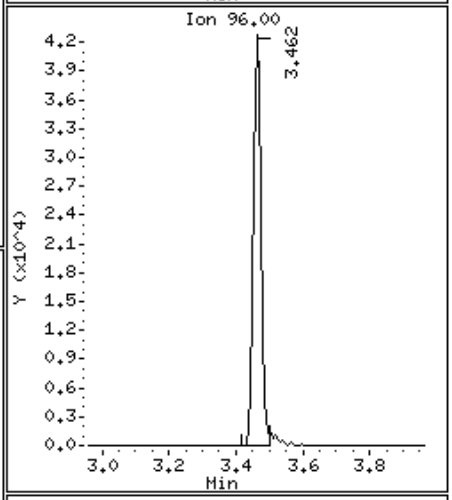


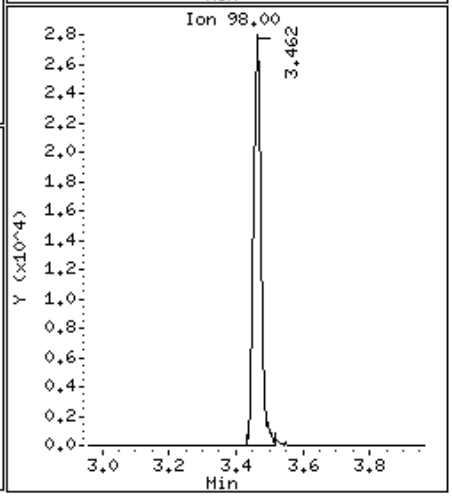












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070121.D Page 4

Date : 01-JUL-2024 16:41

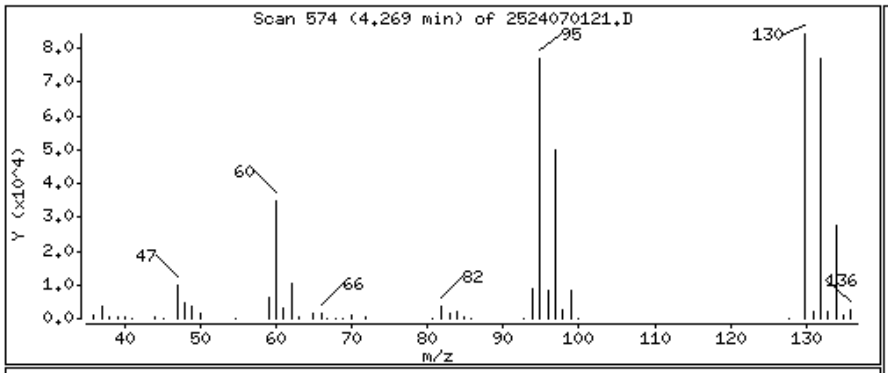
Client ID: ICT13C_062024 Instrument: ms25.i

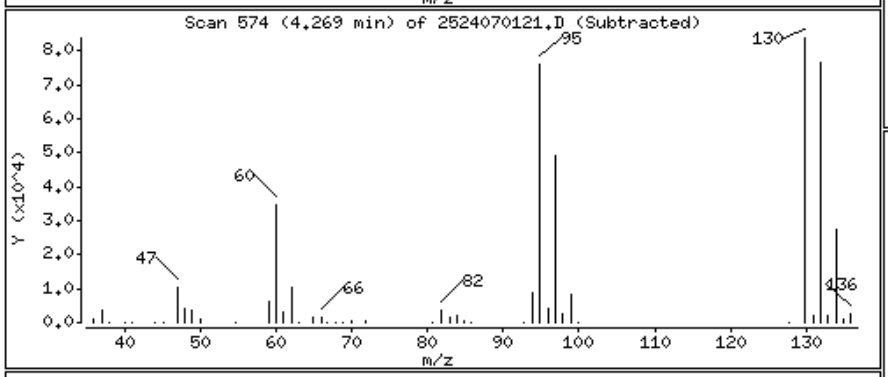
Sample Info: 3366026014;;1;;;;;

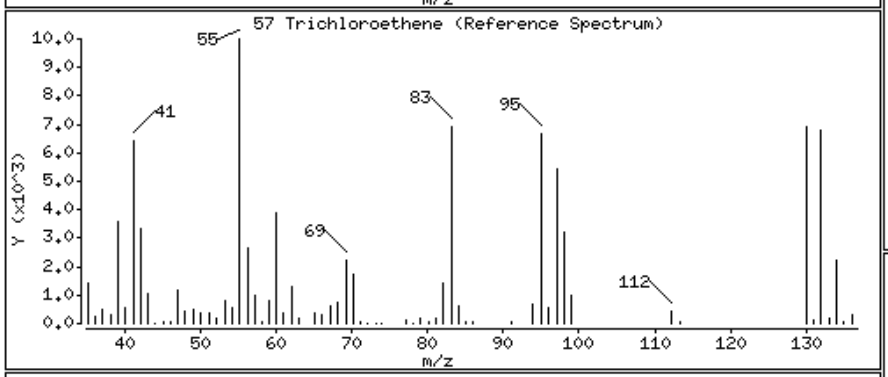
Purge Volume: 5.0 Operator: TMP

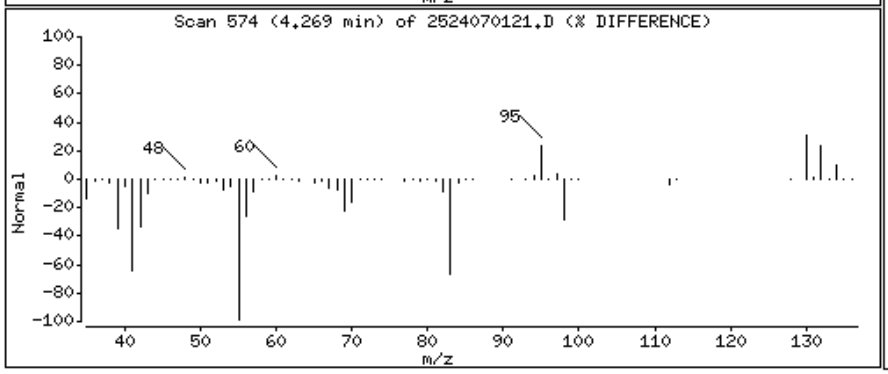
Column phase: DB-VRX Column diameter: 0.25

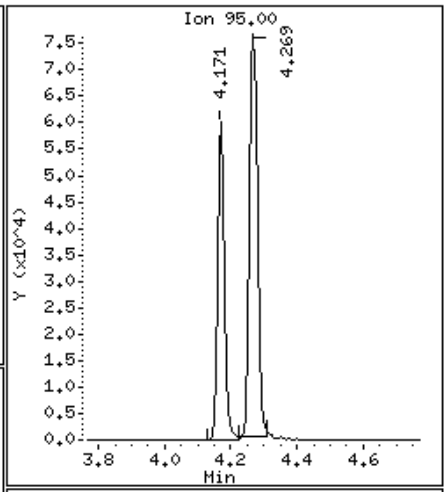
57 Trichloroethene Concentration: 14.6428 ug/L

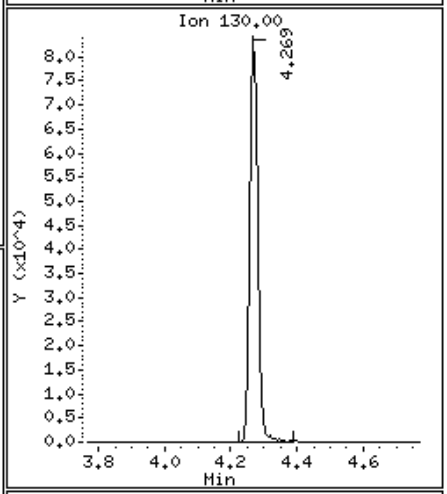


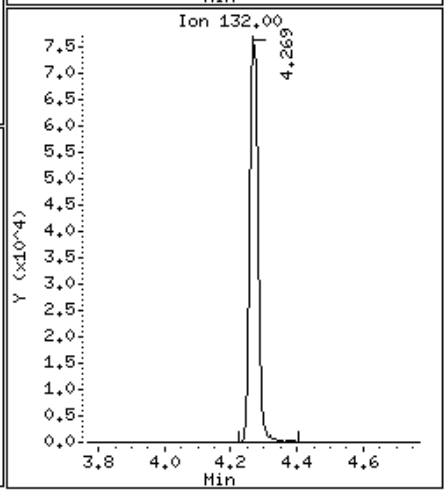












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070121.D
Inj Date : 01-JUL-2024 16:41
InstruID : ms25.i
LabSampID : 3366026014

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:25
Client ID: ICT13C_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407012
Inj Date: 01-JUL-2024 16:41
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Bromodichloromethane
1-Chlorohexane
Ethyl methacrylate
1,1,1-Trichloroethane
tert-Amyl Alcohol
Chloroethane
1,2-Dichloroethane
2-Nitropropane
Trichlorofluoromethane

Data File: 2524070122.D Page 1
Report Date: 02-Jul-2024 13:25

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070122.D
Lab Smp Id: 3366026015 Client Smp ID: ICT13D_062024
Inj Date : 01-JUL-2024 17:01
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026015;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.408	2.413	(0.577)	3125	0.32870	0.328702(aQ)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	82156	12.2861	12.2861	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						RT
21 Hexane	57	Compound Not Detected.						

Data File: 2524070122.D
Report Date: 02-Jul-2024 13:25

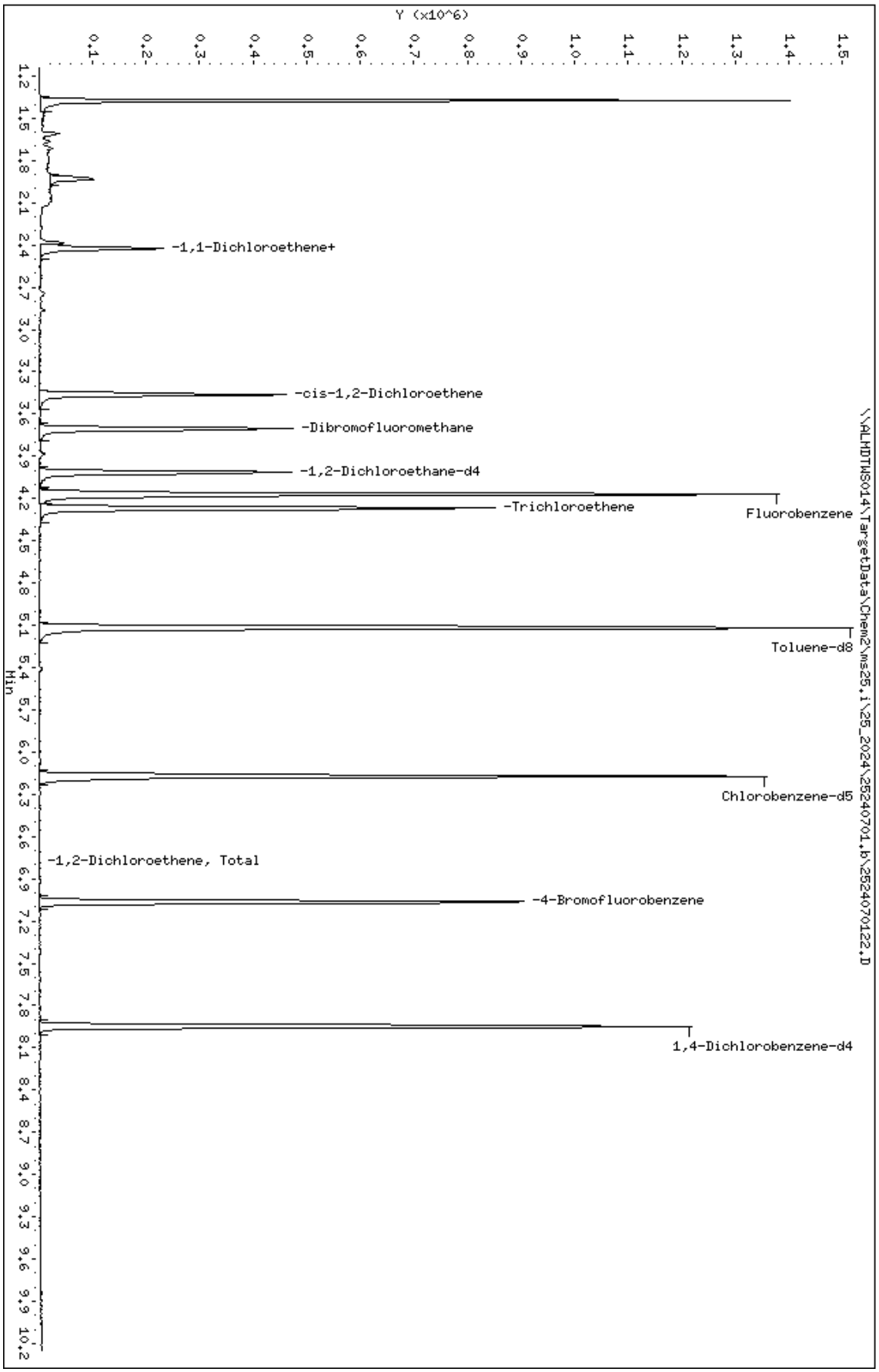
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	202572	21.4555	21.4555	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				202572	21.4555	21.4555	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	222078	28.4800	28.4800	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						RT
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	253826	30.8793	30.8793	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	988259	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	217449	27.7234	27.7234	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	863650	29.7598	29.7598	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						IBDL

Data File: 2524070122.D Page 3
Report Date: 02-Jul-2024 13:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							RT
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	366549	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	234487	28.1732	28.1732		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	300854	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240701,b\25240701?2.D
Date : 01-JUL-2024 17:01
Client ID: ICT13D_062024
Sample Info: 33660260151;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070122.D Page 2

Date : 01-JUL-2024 17:01

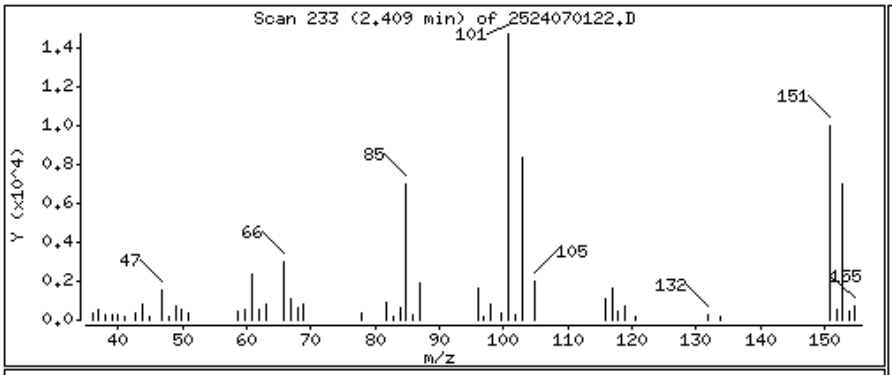
Client ID: ICT13D_062024 Instrument: ms25.i

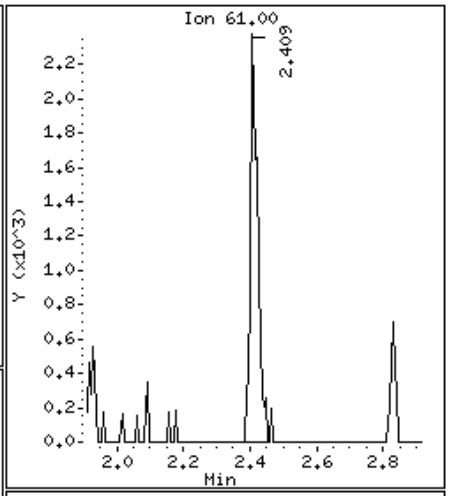
Sample Info: 3366026015;;1;;;;;

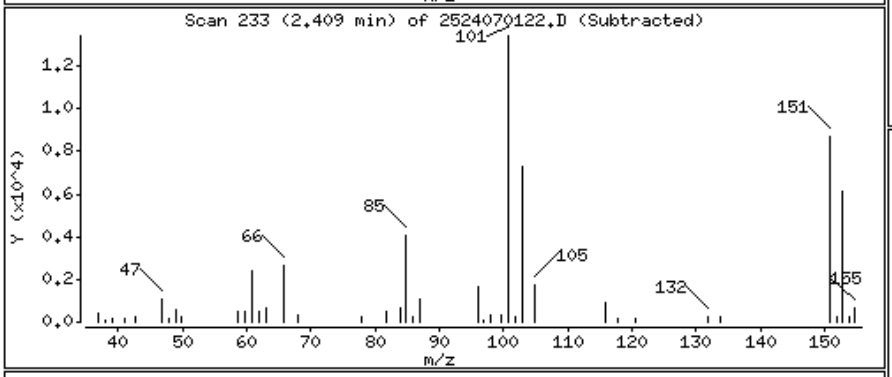
Purge Volume: 5.0 Operator: TMP

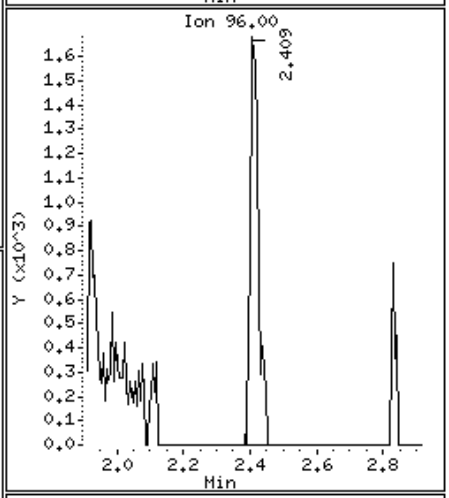
Column phase: DB-VRX Column diameter: 0.25

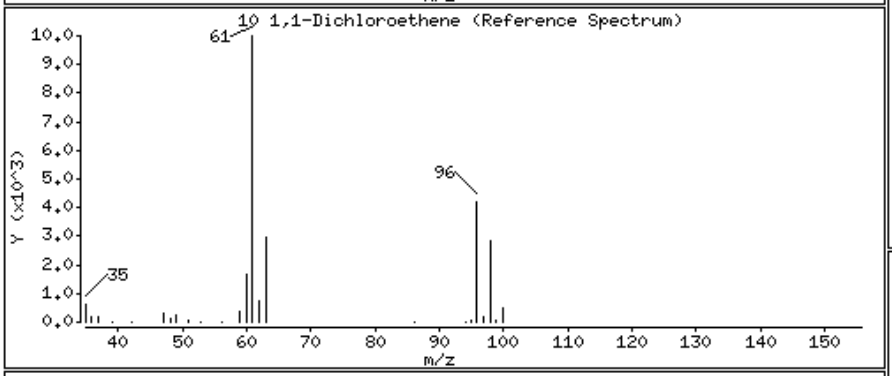
10 1,1-Dichloroethene Concentration: 0.328702 ug/L

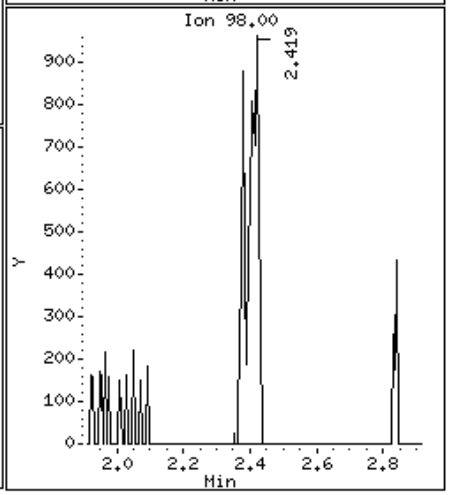


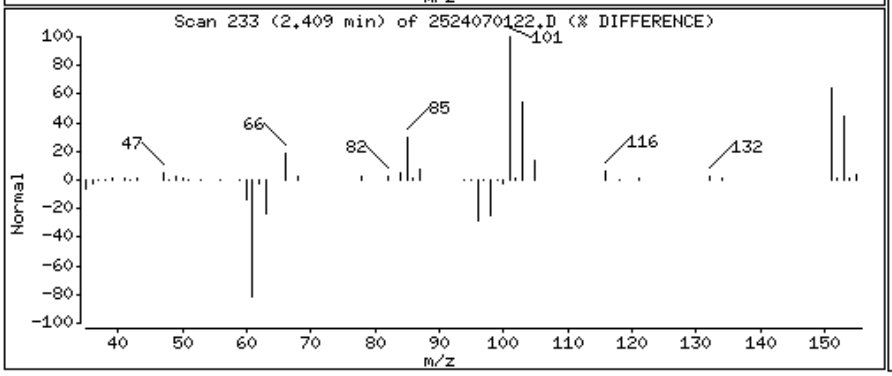












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070122.D Page 3

Date : 01-JUL-2024 17:01

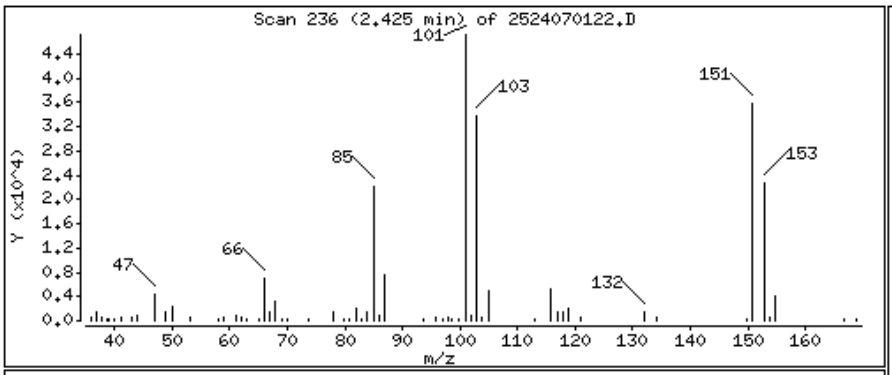
Client ID: ICT13D_062024 Instrument: ms25.i

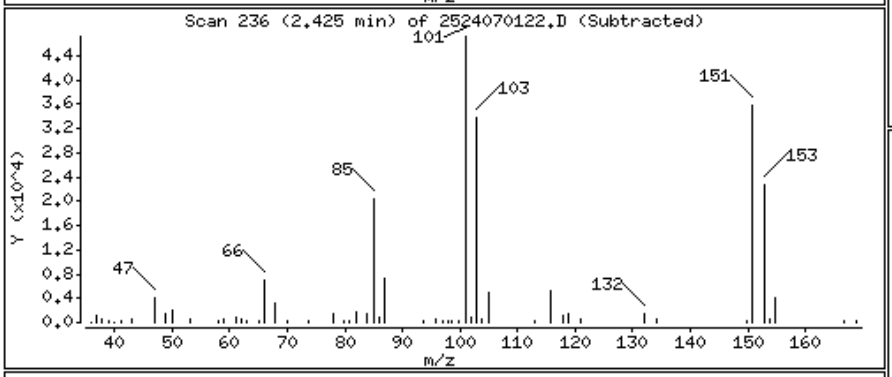
Sample Info: 3366026015;;1;;;;;

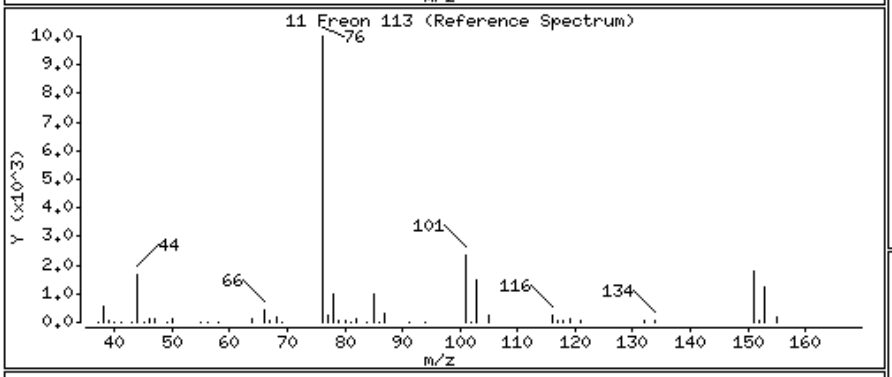
Purge Volume: 5.0 Operator: TMP

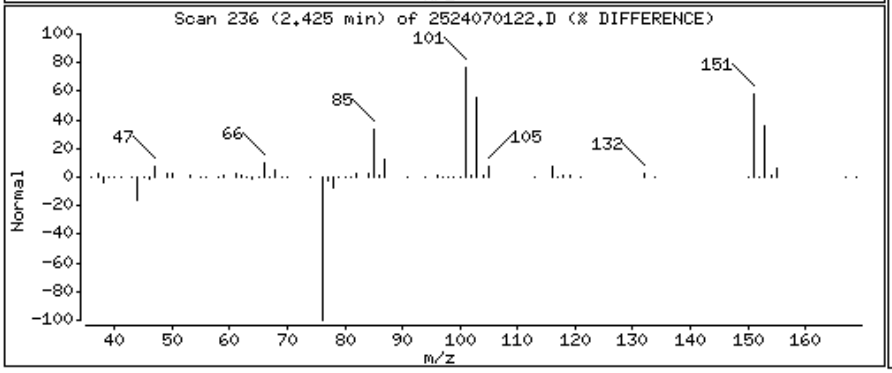
Column phase: DB-VRX Column diameter: 0.25

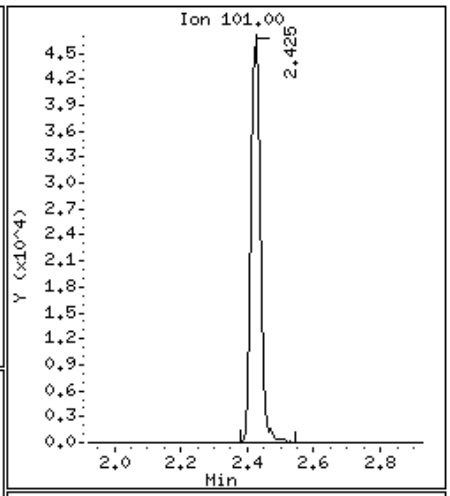
11 Freon 113 Concentration: 12.2861 ug/L

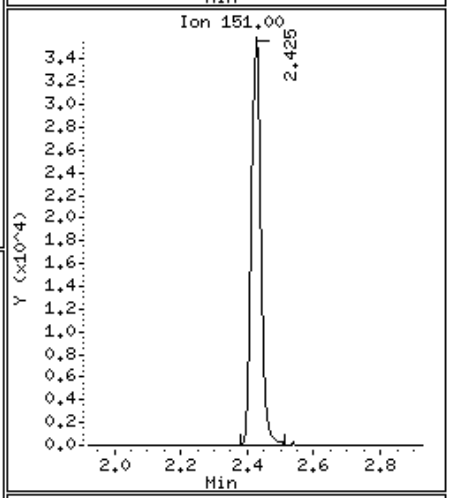


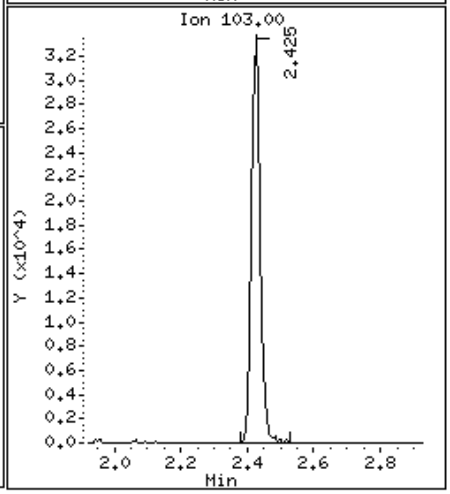












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070122.D Page 4

Date : 01-JUL-2024 17:01

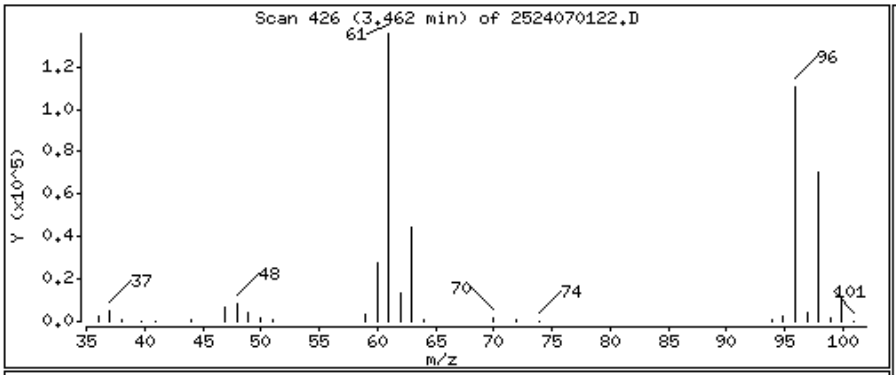
Client ID: ICT13D_062024 Instrument: ms25.i

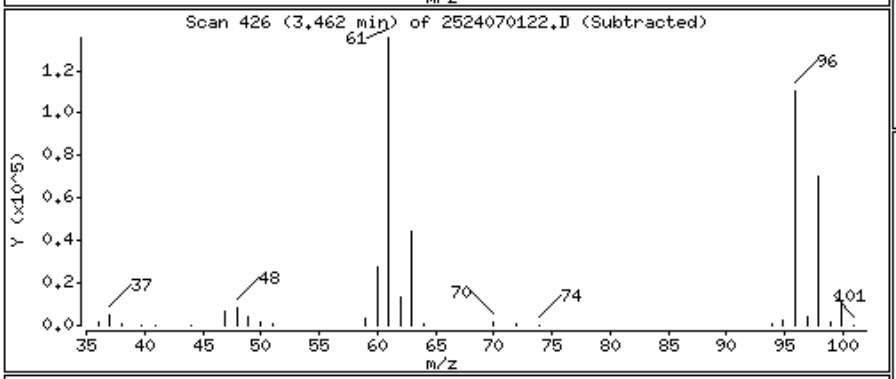
Sample Info: 3366026015;;1;;;;;

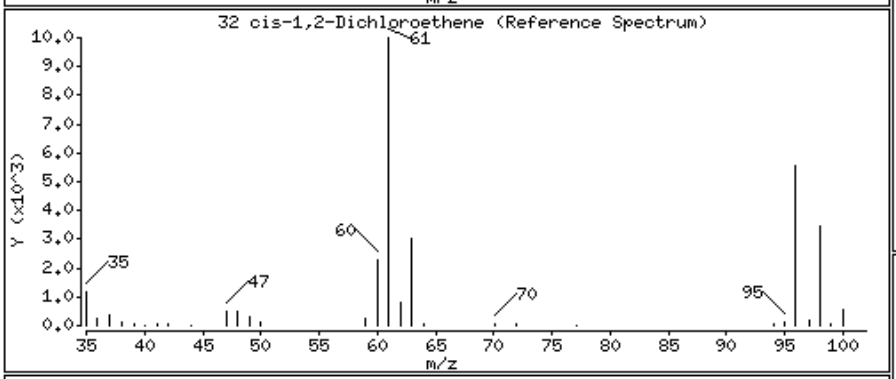
Purge Volume: 5.0 Operator: TMP

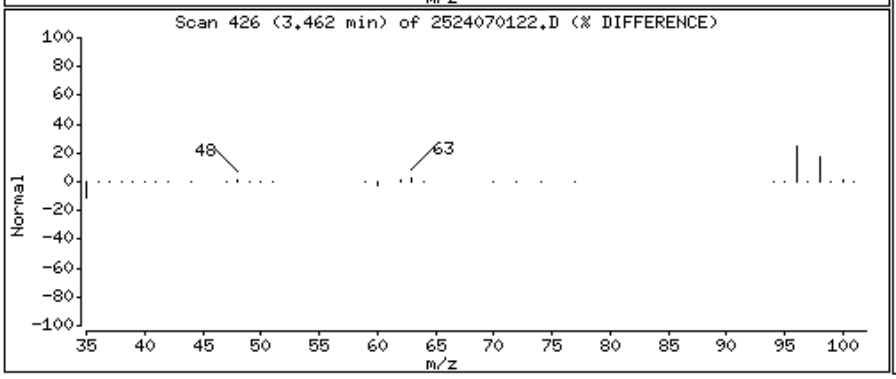
Column phase: DB-VRX Column diameter: 0.25

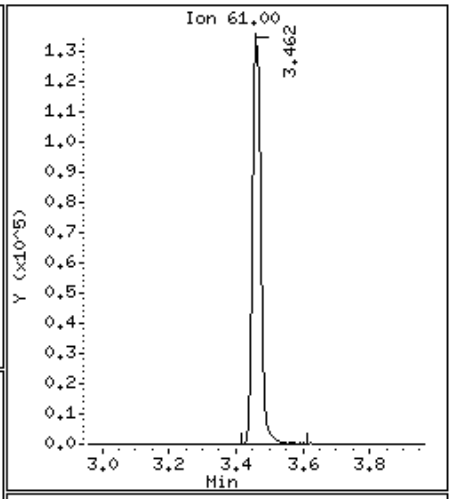
32 cis-1,2-Dichloroethene Concentration: 21.4555 ug/L

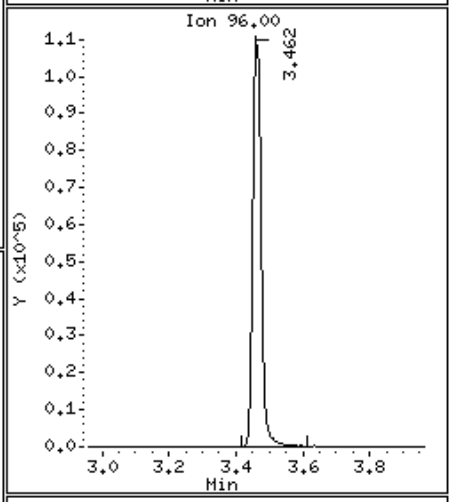


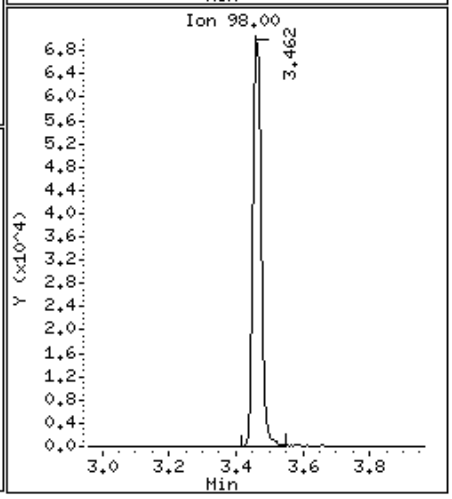












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070122.D Page 5

Date : 01-JUL-2024 17:01

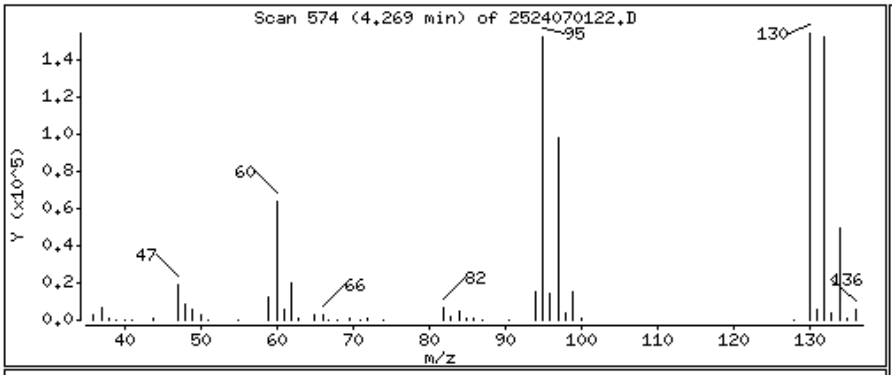
Client ID: ICT13D_062024 Instrument: ms25.i

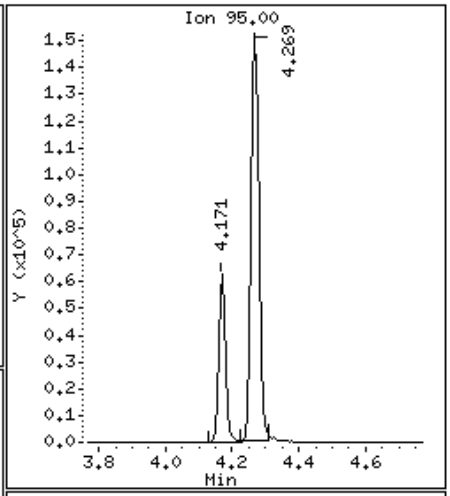
Sample Info: 3366026015;;1;;;;;

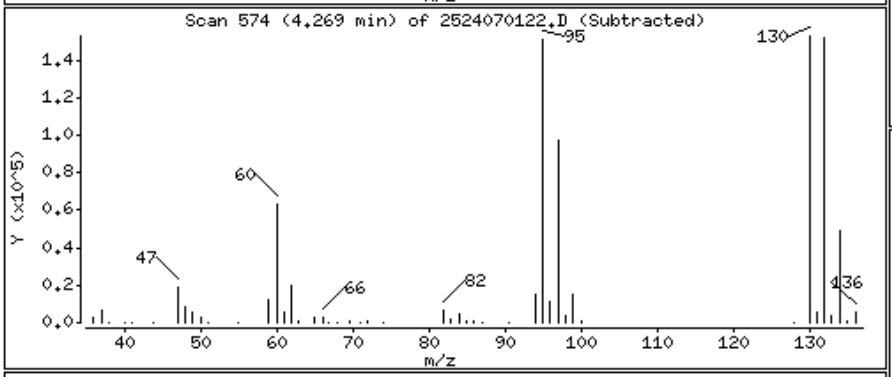
Purge Volume: 5.0 Operator: TMP

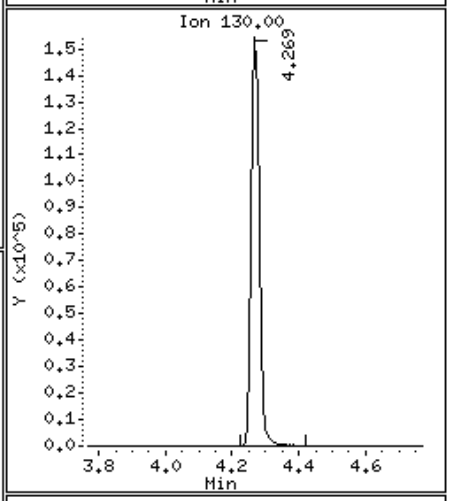
Column phase: DB-VRX Column diameter: 0.25

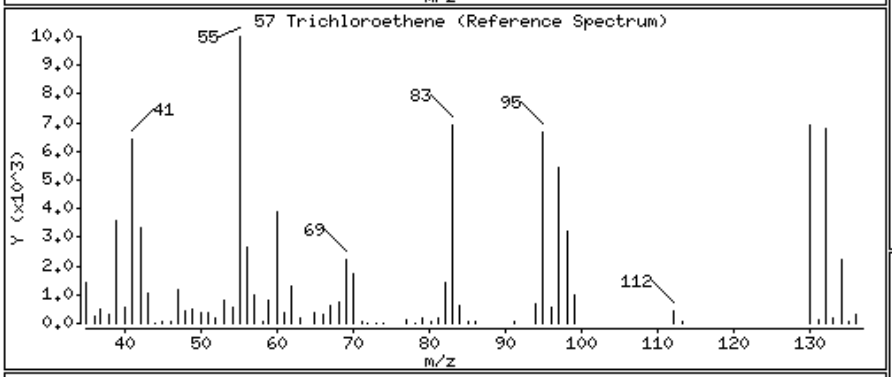
57 Trichloroethene Concentration: 27.7234 ug/L

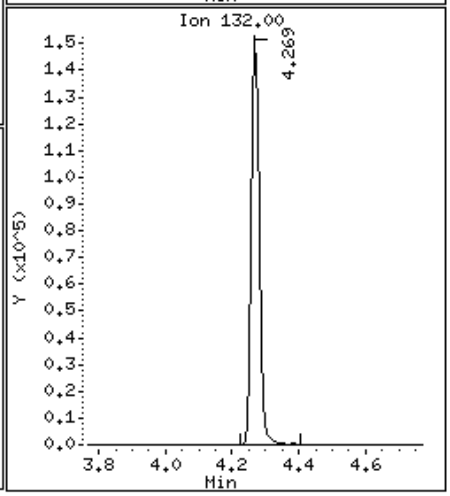


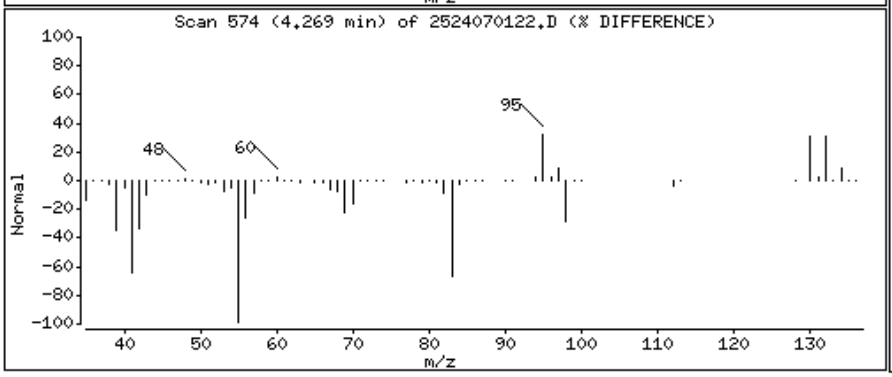












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070122.D
Inj Date : 01-JUL-2024 17:01
InstruID : ms25.i
LabSampID : 3366026015

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:25
Client ID: ICT13D_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407012
Inj Date: 01-JUL-2024 17:01
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Chloroethane
1,2-Dichloroethane
Dichlorofluoromethane
Methacrylonitrile
Tetrachloroethene
Trichlorofluoromethane
Bromodichloromethane
1-Chlorohexane
trans-1,2-Dichloroethene
Ethyl methacrylate
2-Nitropropane
1,1,1-Trichloroethane

Data File: 2524070123.D Page 1
Report Date: 02-Jul-2024 13:26

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070123.D
Lab Smp Id: 3366026016 Client Smp ID: ICT13E_062024
Inj Date : 01-JUL-2024 17:22
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026016;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	16768	2.60036	2.60036	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						RT
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070123.D
Report Date: 02-Jul-2024 13:26

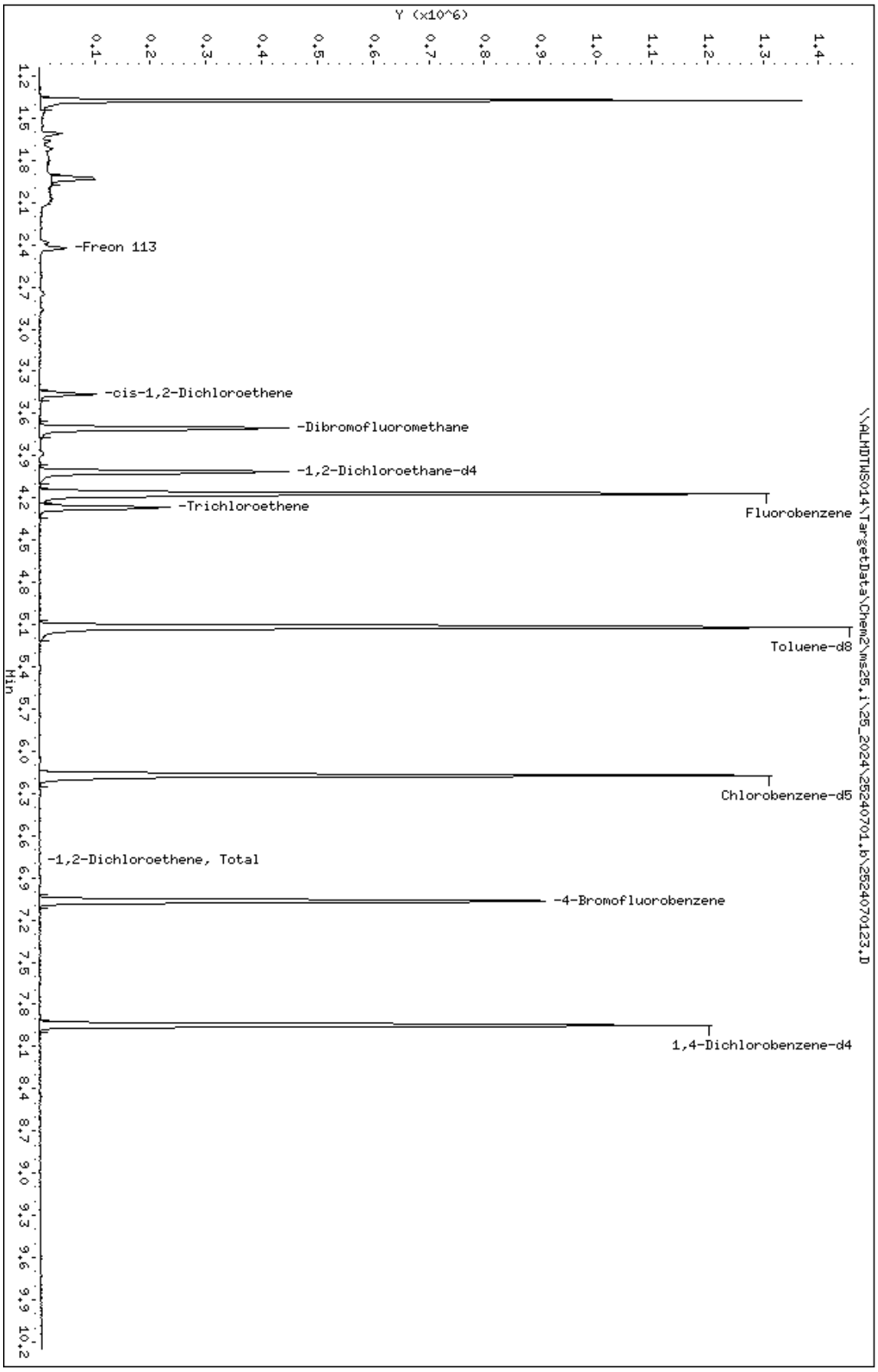
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	44532	4.89112	4.89112	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				44532	4.89112	4.89112	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	207585	27.6062	27.6062	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	242540	30.5978	30.5978	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	953004	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	61513	8.13264	8.13264	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	848003	30.3430	30.3430	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070123.D Page 3
Report Date: 02-Jul-2024 13:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	352991	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	232561	29.4490	29.4490		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	285456	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

Q - Qualifier signal failed the ratio test.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0.3
0.4
0.5
0.6
0.7
0.8
0.9
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1.1
1.2
1.3
1.4
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
Min
-Freon 113
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Trichloroethene
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25240701\23.D
Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25240701\23.D
Date : 01-JUL-2024 17:22
Client ID: ICT13E_062024
Sample Info: 33660260161;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: TMP
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070123.D Page 2

Date : 01-JUL-2024 17:22

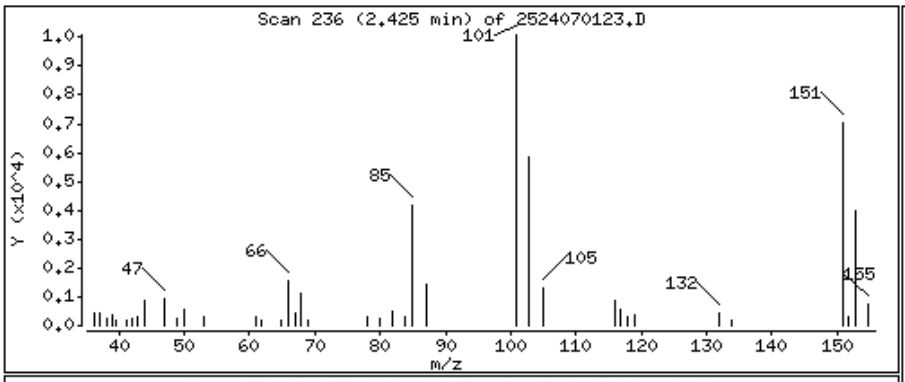
Client ID: ICT13E_062024 Instrument: ms25.i

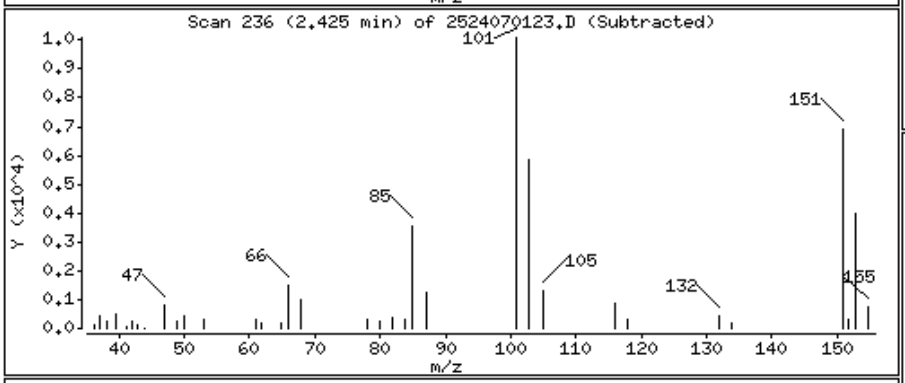
Sample Info: 3366026016;;1;;;;;

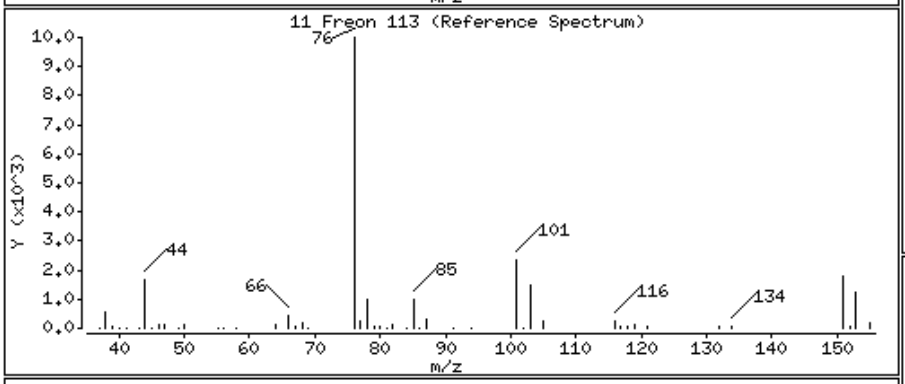
Purge Volume: 5.0 Operator: TMP

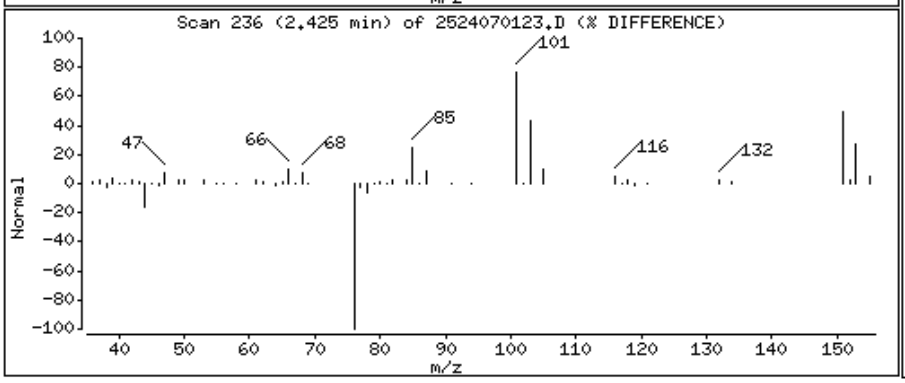
Column phase: DB-VRX Column diameter: 0.25

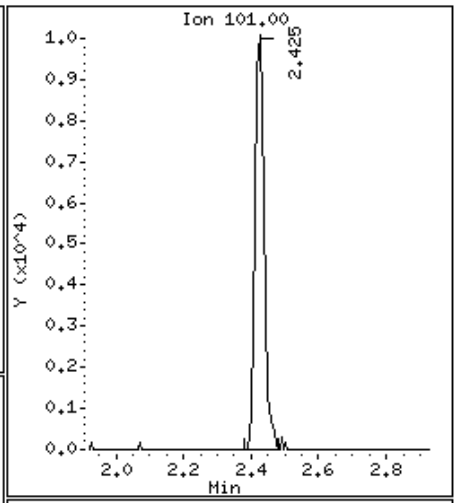
11 Freon 113 Concentration: 2.60036 ug/L

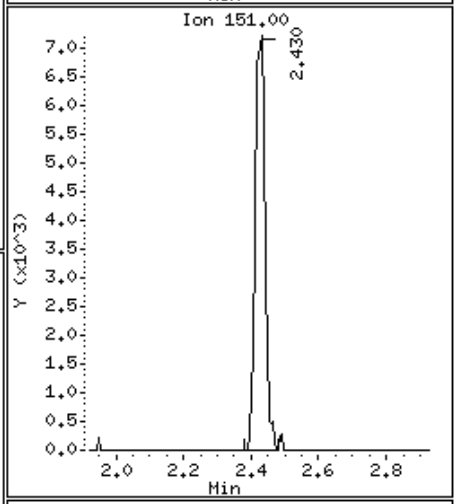


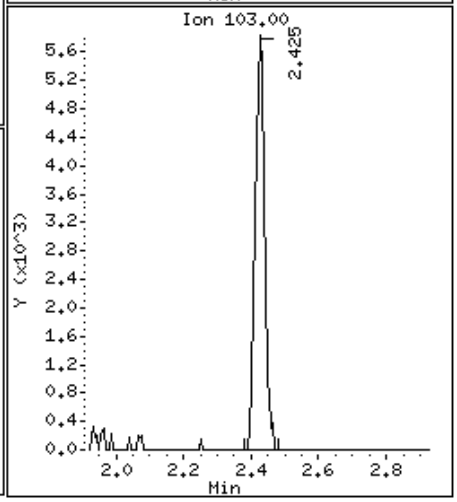












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070123.D Page 3

Date : 01-JUL-2024 17:22

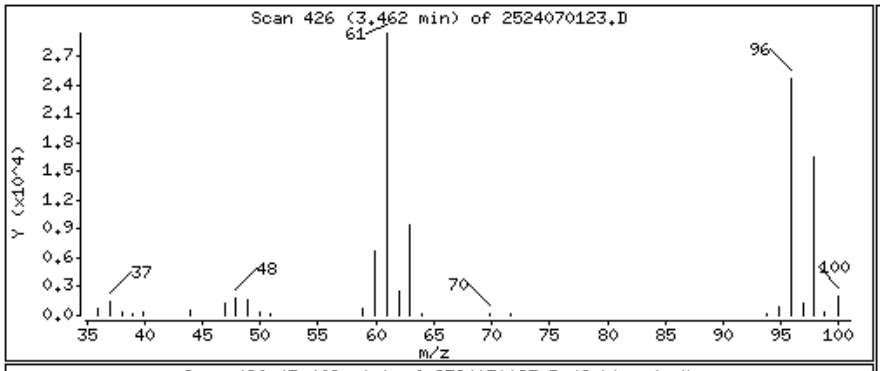
Client ID: ICT13E_062024 Instrument: ms25.i

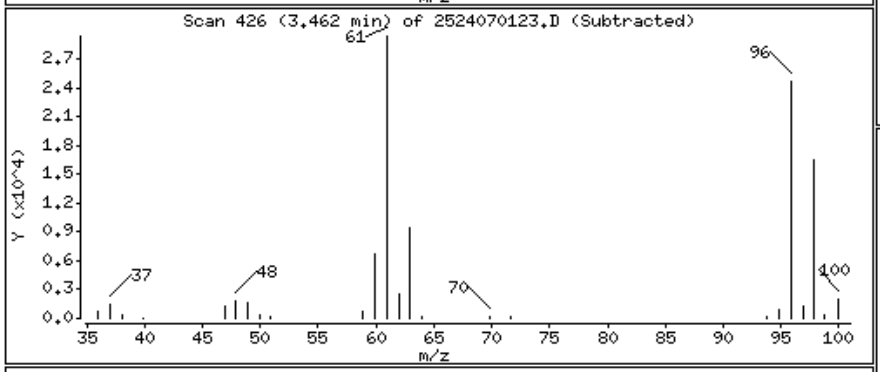
Sample Info: 3366026016;;1;;;;;

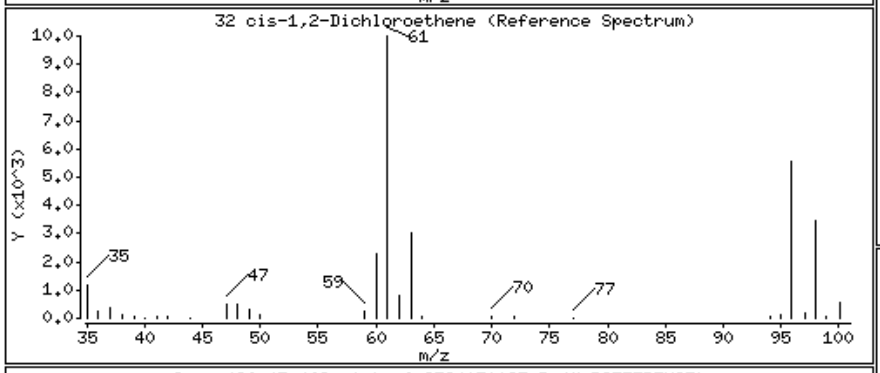
Purge Volume: 5.0 Operator: TMP

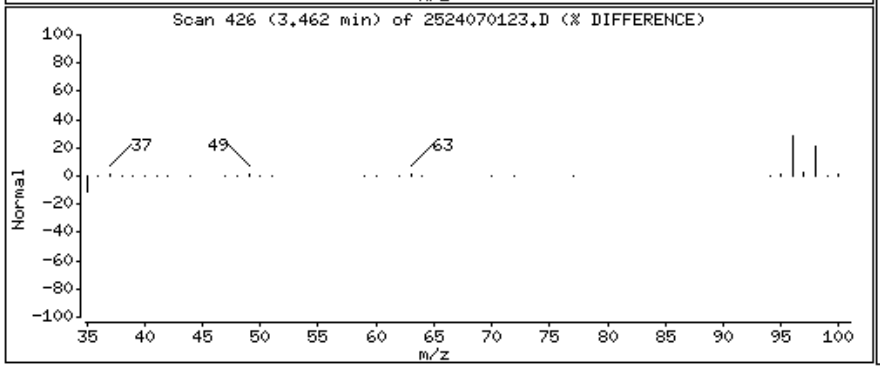
Column phase: DB-VRX Column diameter: 0.25

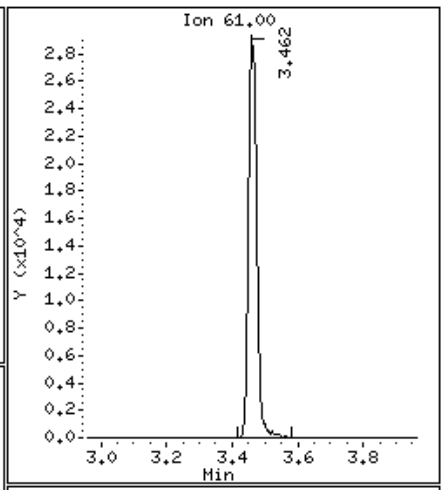
32 cis-1,2-Dichloroethene Concentration: 4.89112 ug/L

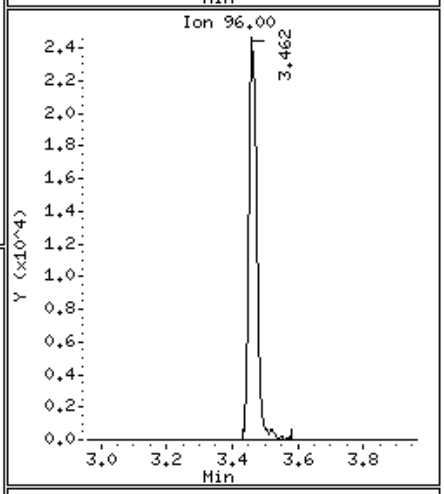


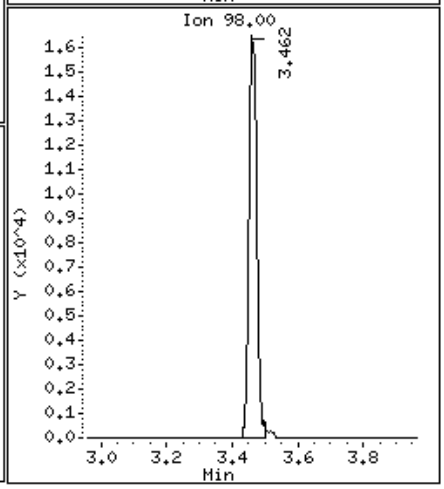












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070123.D Page 4

Date : 01-JUL-2024 17:22

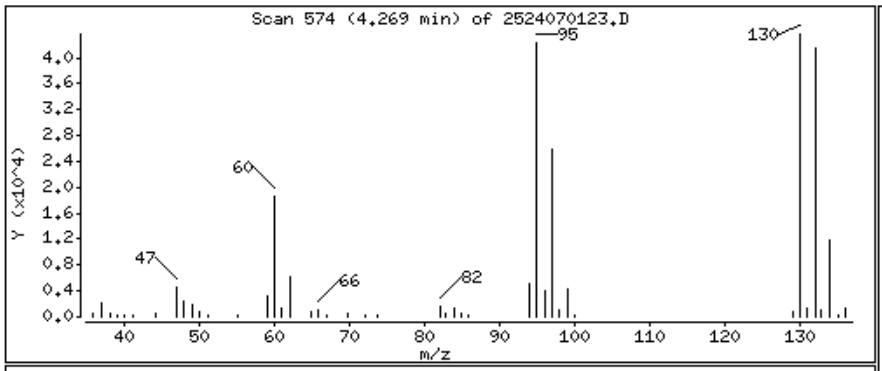
Client ID: ICT13E_062024 Instrument: ms25.i

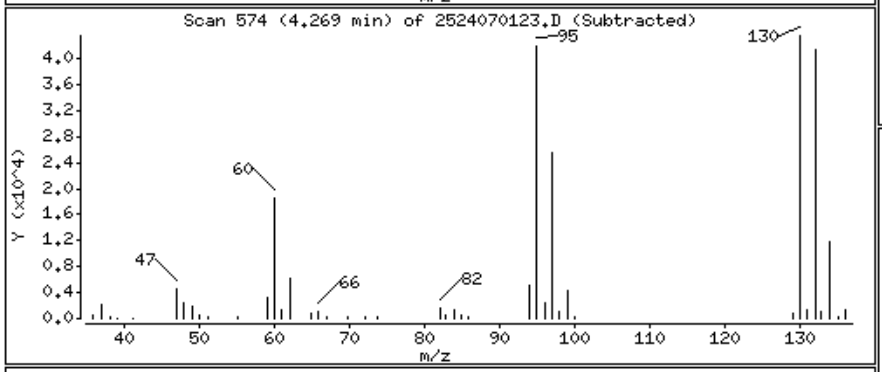
Sample Info: 3366026016;;1;;;;;

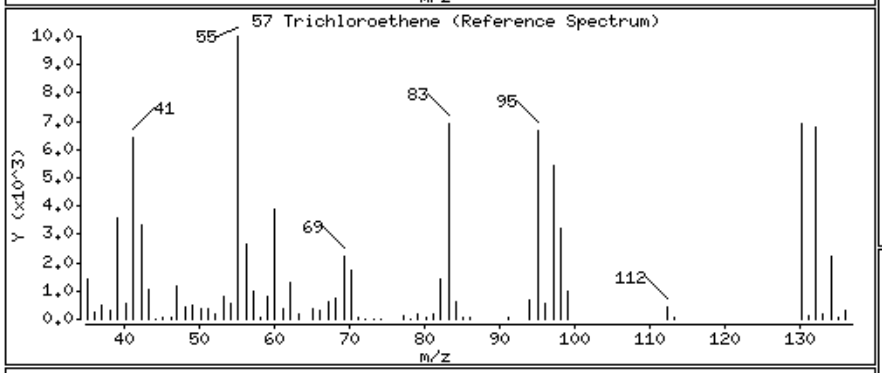
Purge Volume: 5.0 Operator: TMP

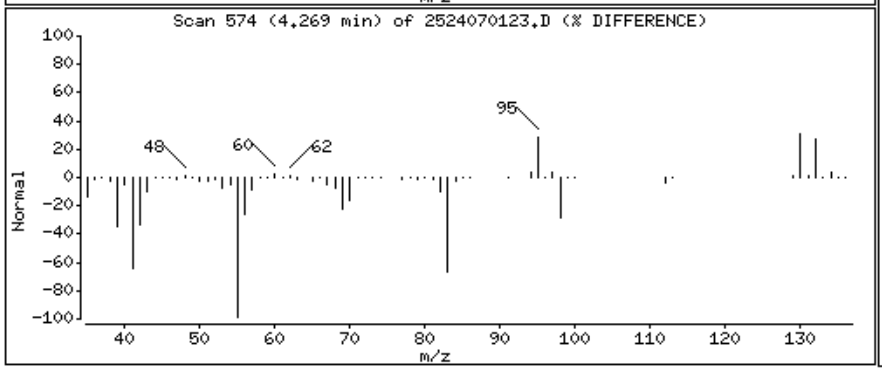
Column phase: DB-VRX Column diameter: 0.25

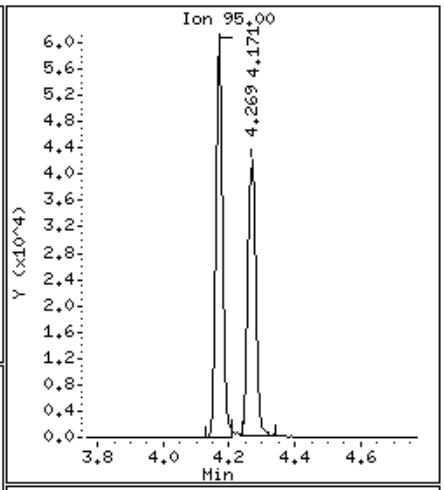
57 Trichloroethene Concentration: 8.13264 ug/L

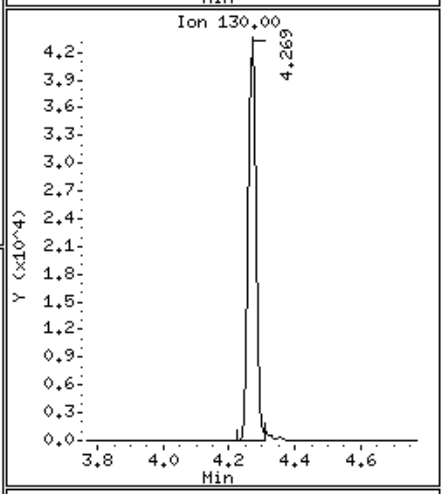


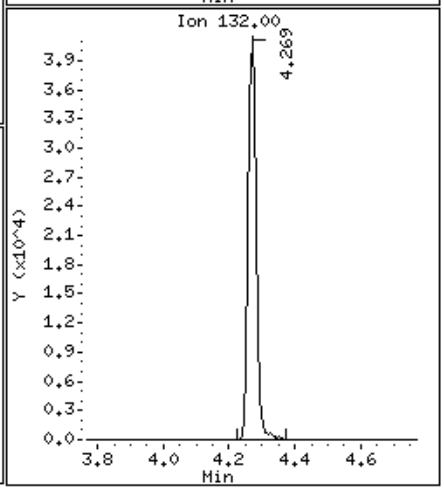












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070123.D
Inj Date : 01-JUL-2024 17:22
InstruID : ms25.i
LabSampID : 3366026016

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:26
Client ID: ICT13E_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407012
Inj Date: 01-JUL-2024 17:22
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Chloroethane
1,2-Dichloroethane
Ethyl methacrylate
Methacrylonitrile
Trichlorofluoromethane
tert-Amyl Alcohol
3-Chloro-1-propene
Dichlorofluoromethane
Heptane
2-Nitropropane

Data File: 2524070124.D Page 1
Report Date: 02-Jul-2024 13:26

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070124.D
Lab Smp Id: 3366026017 Client Smp ID: ICT13F_062024
Inj Date : 01-JUL-2024 17:42
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026017;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						RT
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	24618	3.83102	3.83102	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524070124.D
Report Date: 02-Jul-2024 13:26

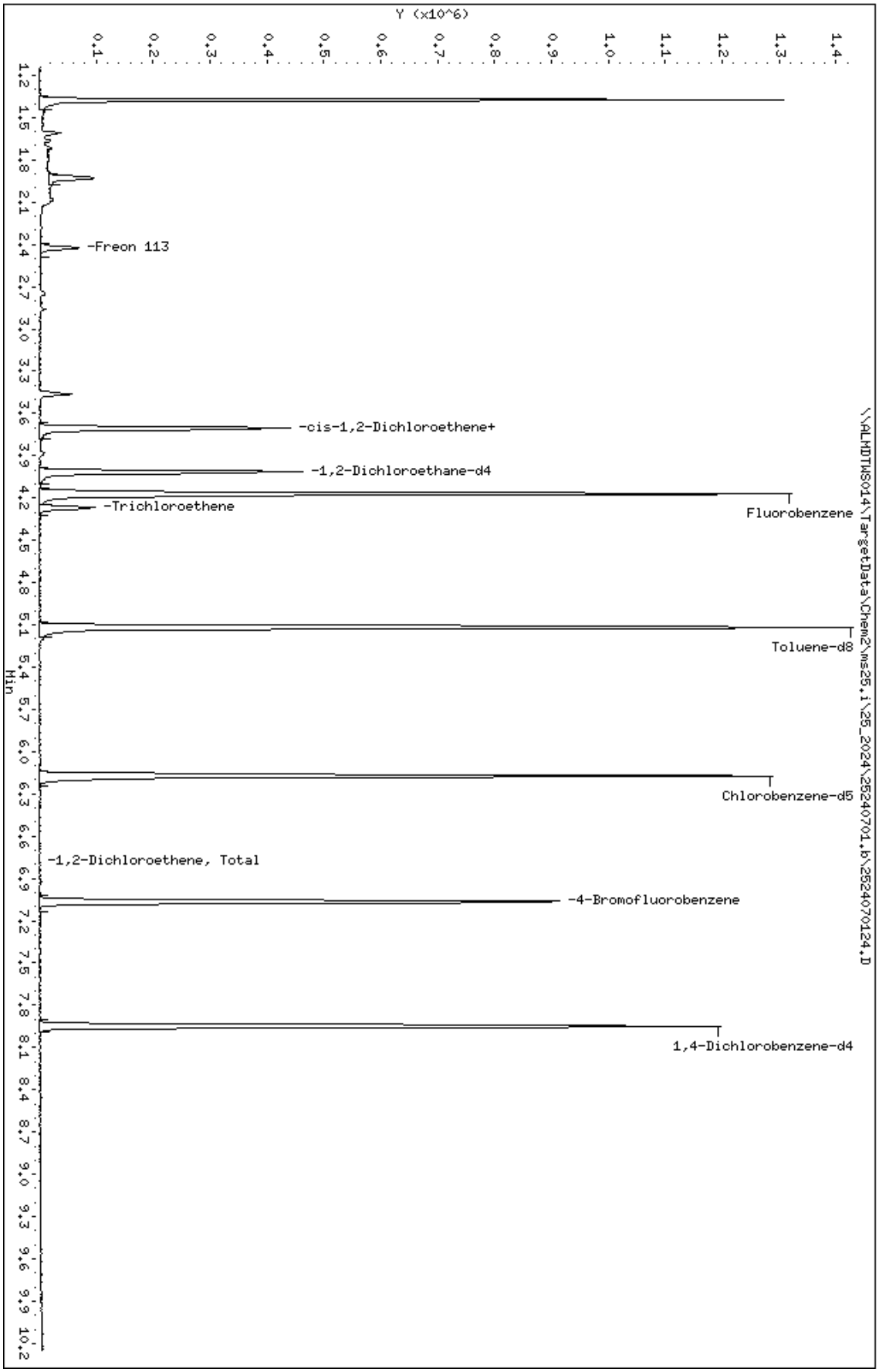
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	24277	2.67572	2.67572	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				24277	2.67572	2.67572	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	210905	28.1454	28.1454	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						RT
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						RT
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	242286	30.6722	30.6722	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.170	(1.000)	949697	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	23579	3.12824	3.12824	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	840539	30.6022	30.6022	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070124.D Page 3
Report Date: 02-Jul-2024 13:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	346920	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	232026	30.0534	30.0534		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	279072	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

Q - Qualifier signal failed the ratio test.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0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
Min
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Freon 113
-cis-1,2-Dichloroethene+
-1,2-Dichloroethane-d4
-Trichloroethene
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25240701.b\25240701.b

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070124.D Page 2

Date : 01-JUL-2024 17:42

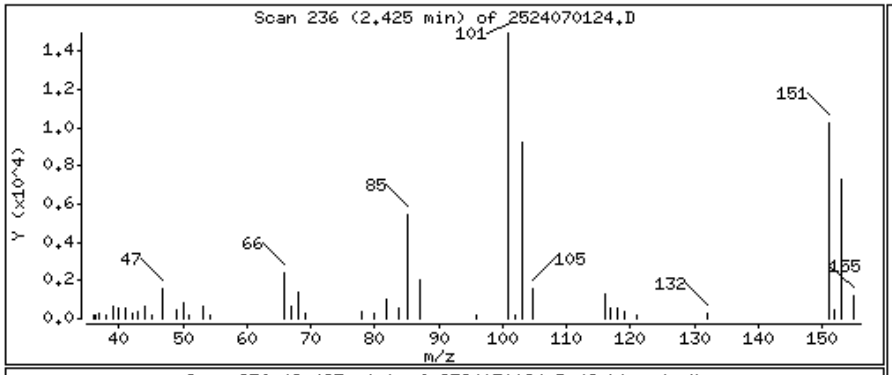
Client ID: ICT13F_062024 Instrument: ms25.i

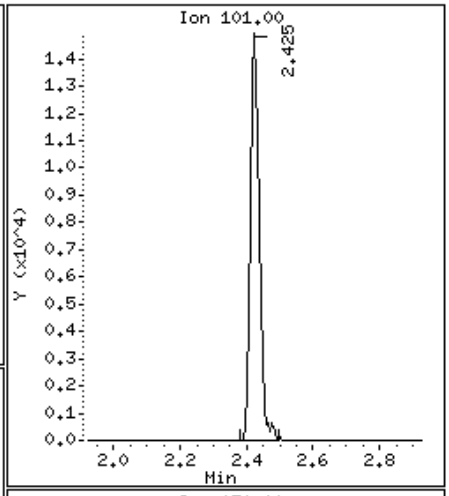
Sample Info: 3366026017;;1;;;;;

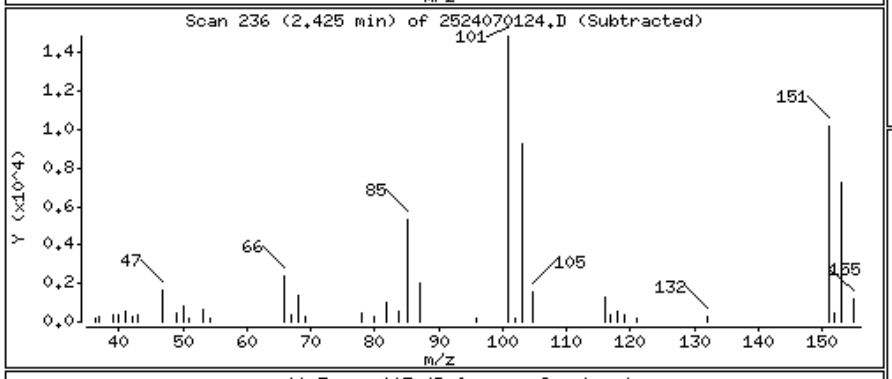
Purge Volume: 5.0 Operator: TMP

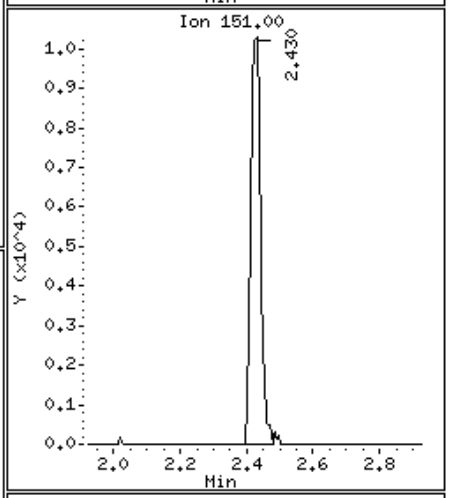
Column phase: DB-VRX Column diameter: 0.25

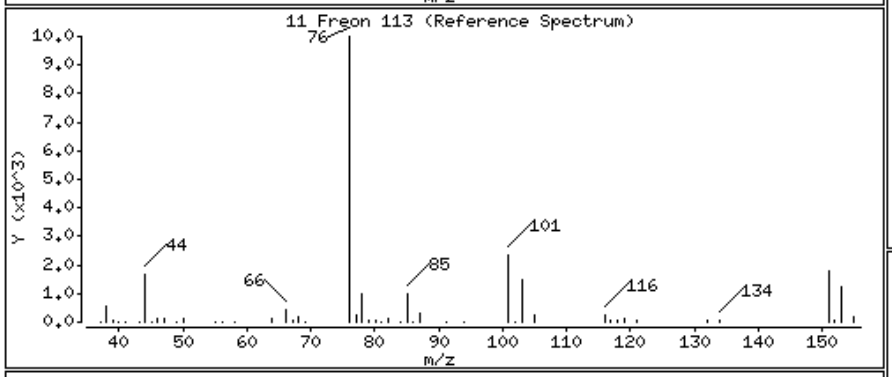
11 Freon 113 Concentration: 3.83102 ug/L

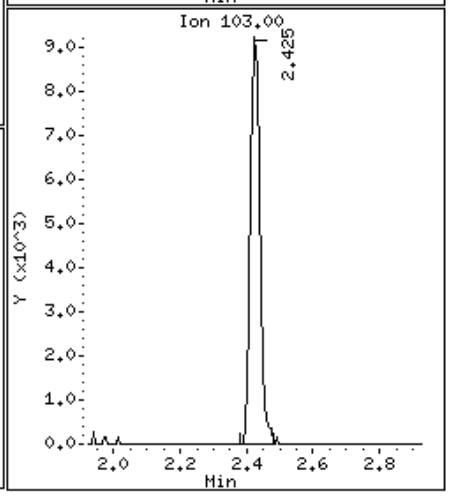


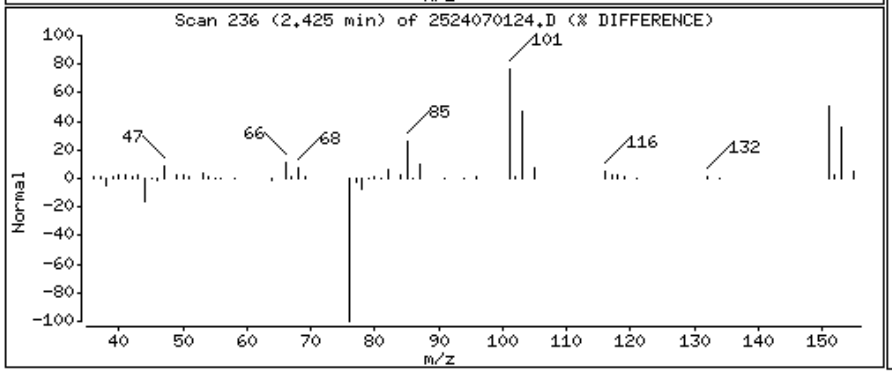












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070124.D Page 3

Date : 01-JUL-2024 17:42

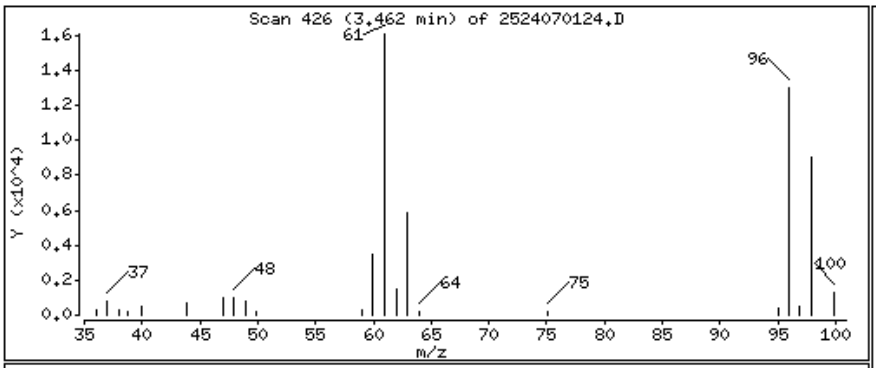
Client ID: ICT13F_062024 Instrument: ms25.i

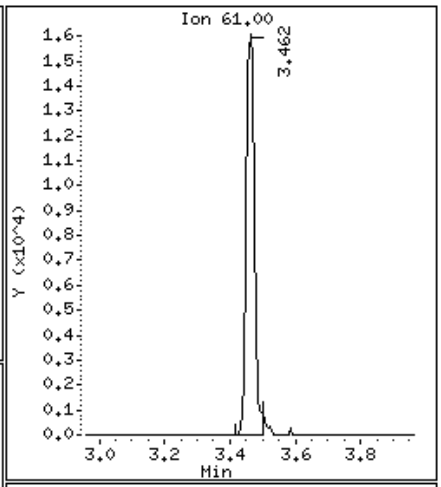
Sample Info: 3366026017;;1;;;;;

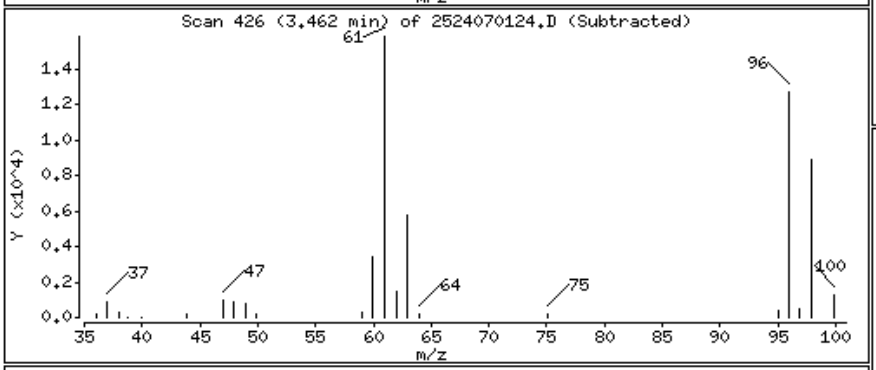
Purge Volume: 5.0 Operator: TMP

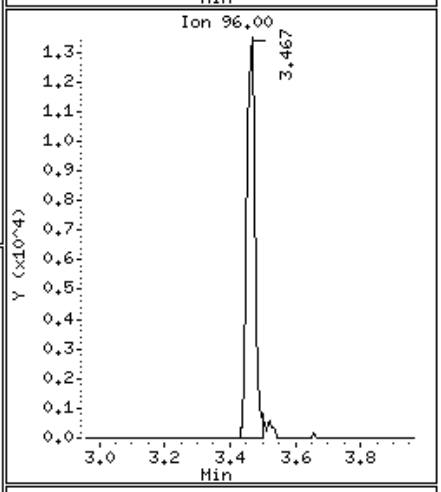
Column phase: DB-VRX Column diameter: 0.25

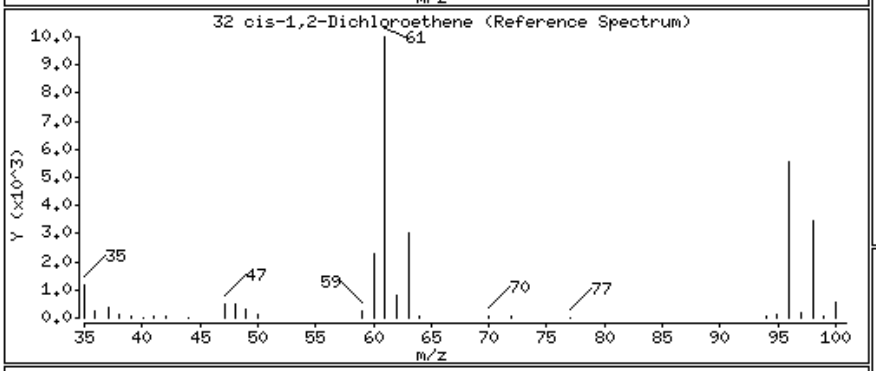
32 cis-1,2-Dichloroethene Concentration: 2.67572 ug/L

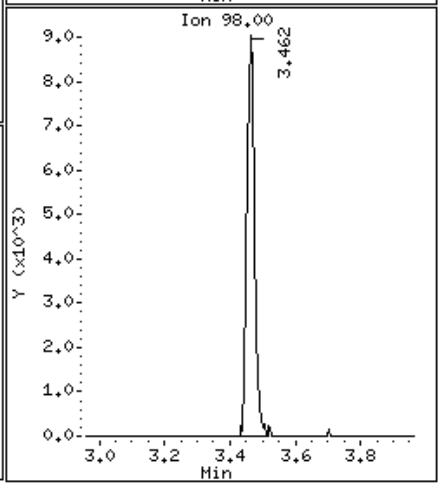


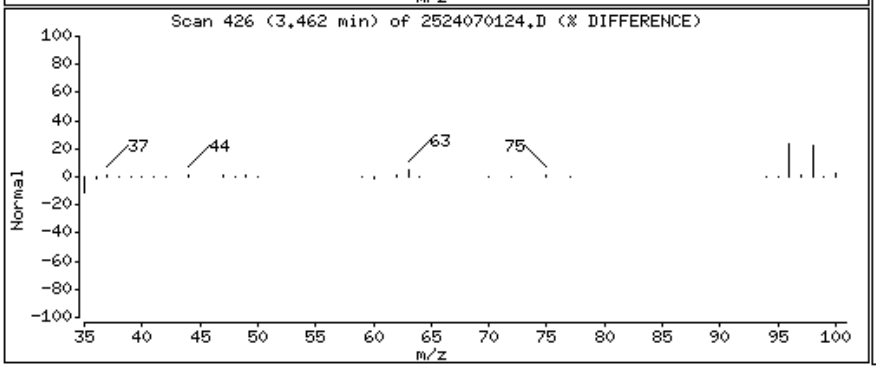












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070124.D Page 4

Date : 01-JUL-2024 17:42

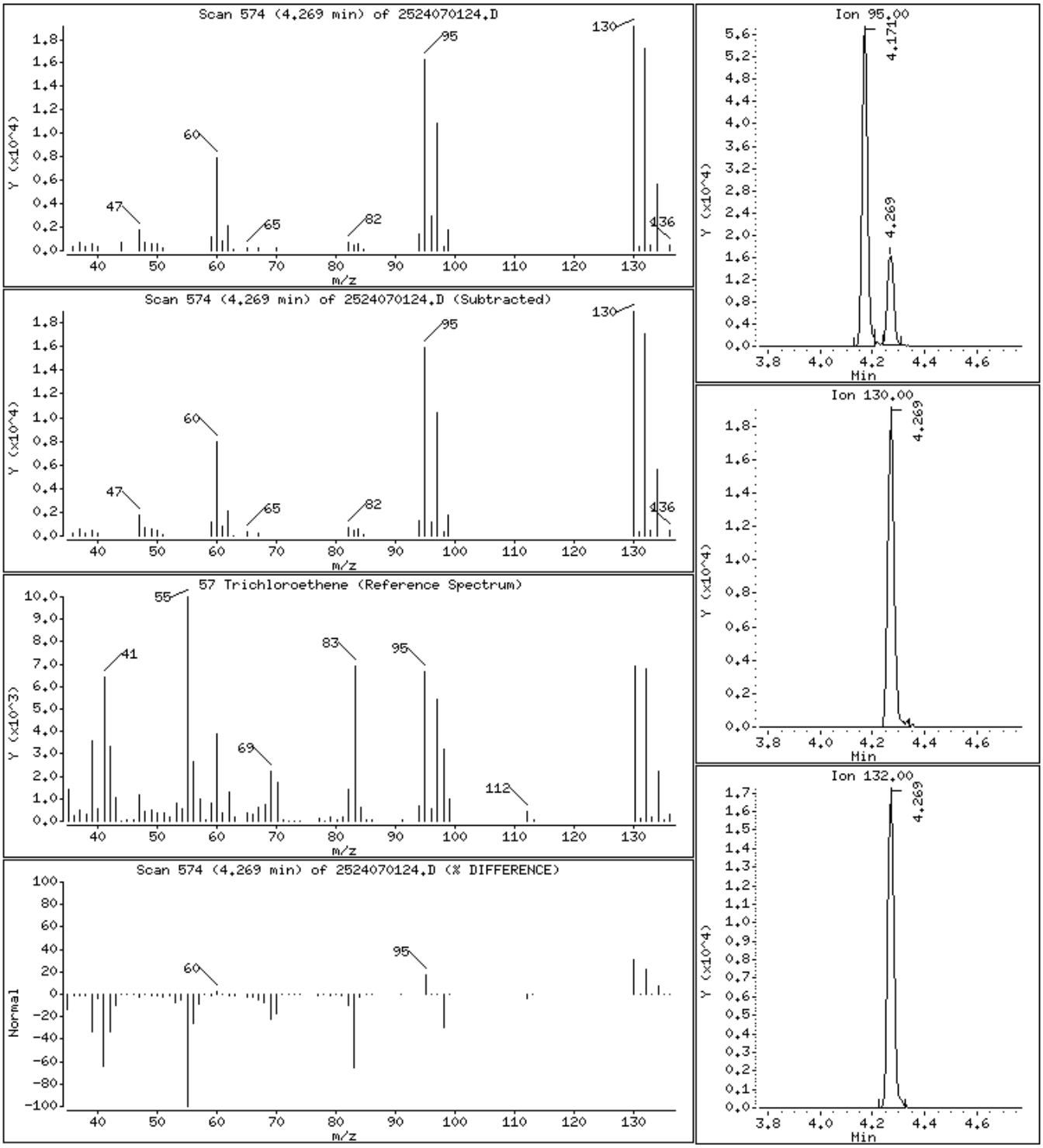
Client ID: ICT13F_062024 Instrument: ms25.i

Sample Info: 3366026017;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 3.12824 ug/L



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Inj Date : 01-JUL-2024 17:42
InstruID : ms25.i
LabSampID : 3366026017

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:26
Client ID: ICT13F_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407012
Inj Date: 01-JUL-2024 17:42
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
2-Nitropropane
Chloroethane
Ethyl methacrylate
Methacrylonitrile
Trichlorofluoromethane

Data File: 2524070125.D Page 1
Report Date: 02-Jul-2024 13:27

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070125.D
Lab Smp Id: 3366026018 Client Smp ID: ICT14A_062024
Inj Date : 01-JUL-2024 18:03
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026018;;1;;;;;
Misc Info : ZZ VOMS 73674 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	10288	0.84170	0.841695(a)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						RT
8 Dichlorofluoromethane	67	Compound Not Detected.						RT
9 Ethyl Ether	74	Compound Not Detected.						RT
10 1,1-Dichloroethene	61	Compound Not Detected.						RT
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	4662024	705.099	705.099(A)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						RT
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						IBDL
18 Acetone	58	Compound Not Detected.						IBDL
19 Methyl acetate	74	Compound Not Detected.						RT
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						RT
21 Hexane	57	Compound Not Detected.						

Data File: 2524070125.D
Report Date: 02-Jul-2024 13:27

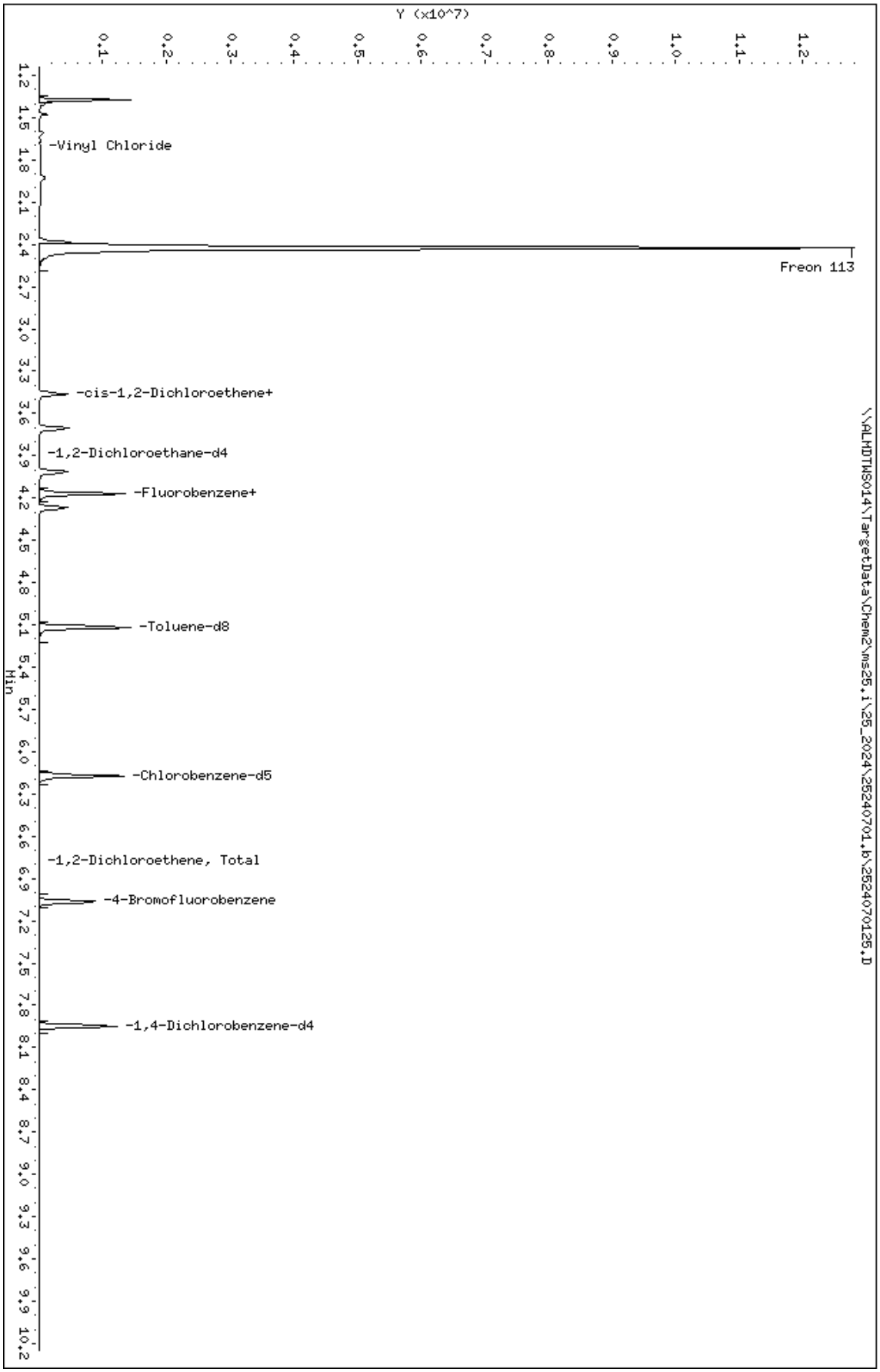
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						RT
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	193977	20.7783	20.7783	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				193977	20.7783	20.7783	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	213104	27.6392	27.6392	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						RT
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						RT
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.018	(0.963)	245813	30.2438	30.2438	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						RT
	53 tert-Amyl Alcohol	59	Compound Not Detected.						RT
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	977171	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	113908	14.6873	14.6873	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						RT
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	841824	29.5697	29.5697	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						RT
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524070125.D Page 3
Report Date: 02-Jul-2024 13:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.							RT
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	359583	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	223507	27.8407	27.8407		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	290191	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.


Y (x10^7)
-Vinyl Chloride
Freon 113
-cis-1,2-Dichloroethene+
-1,2-Dichloroethane-d4
-Fluorobenzene+
-Toluene-d8
-Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
Min
\\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240701,b\25240701\25240701\25240701

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070125.D Page 2

Date : 01-JUL-2024 18:03

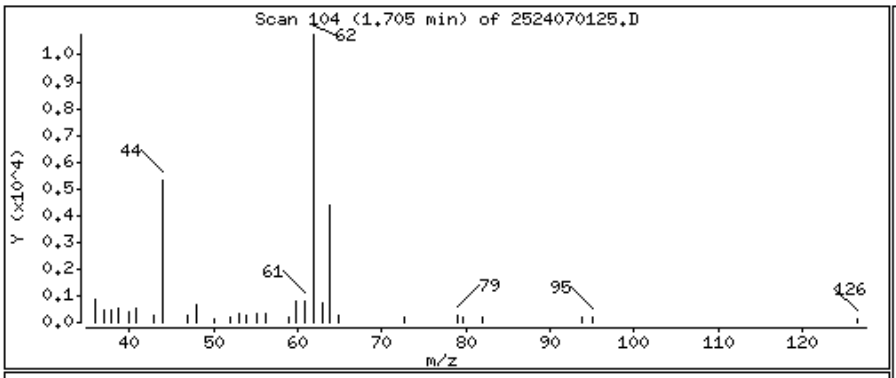
Client ID: ICT14A_062024 Instrument: ms25.i

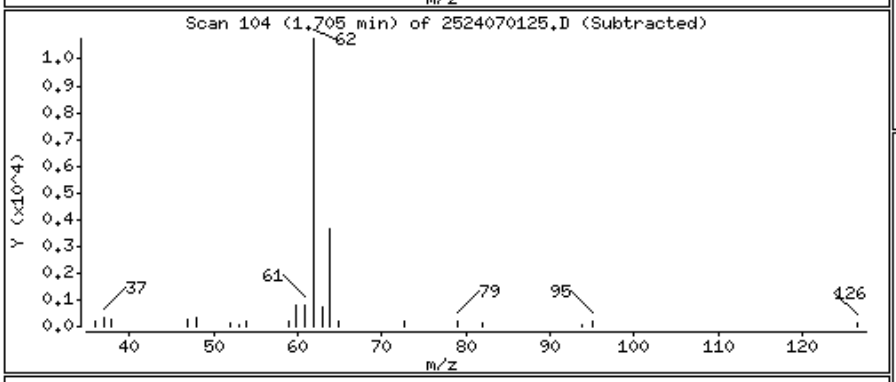
Sample Info: 3366026018;;1;;;;;

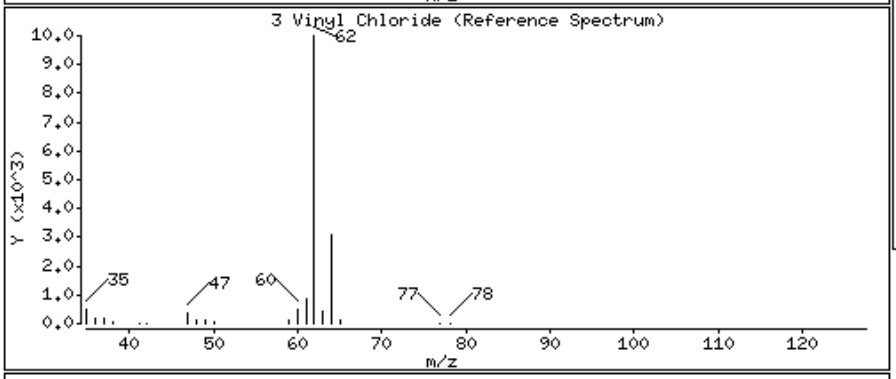
Purge Volume: 5.0 Operator: TMP

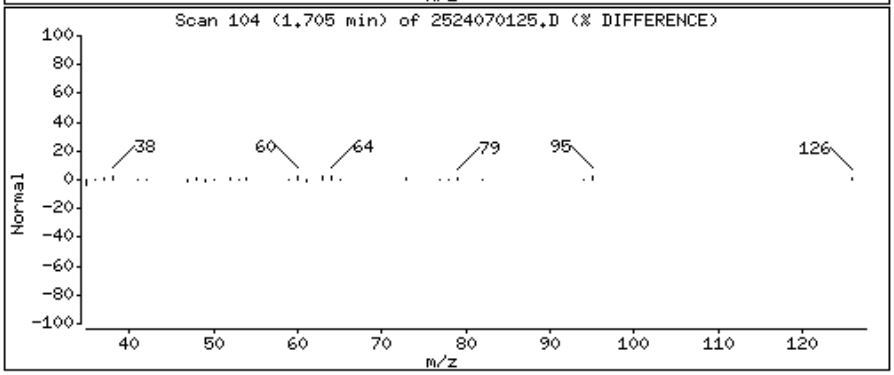
Column phase: DB-VRX Column diameter: 0.25

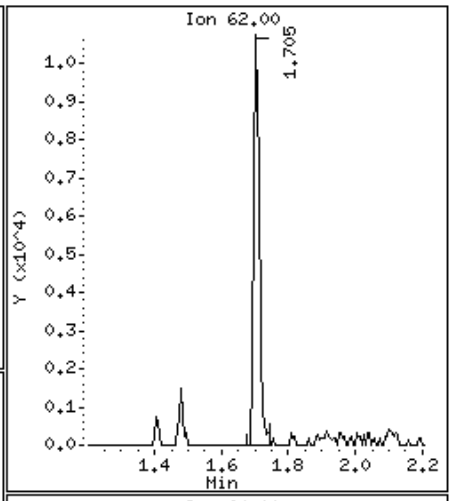
3 Vinyl Chloride Concentration: 0.841695 ug/L

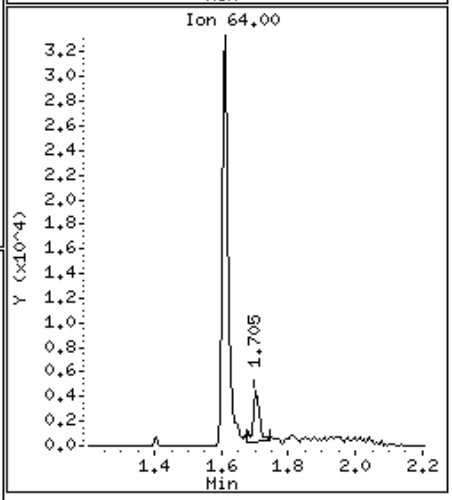












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070125.D Page 3

Date : 01-JUL-2024 18:03

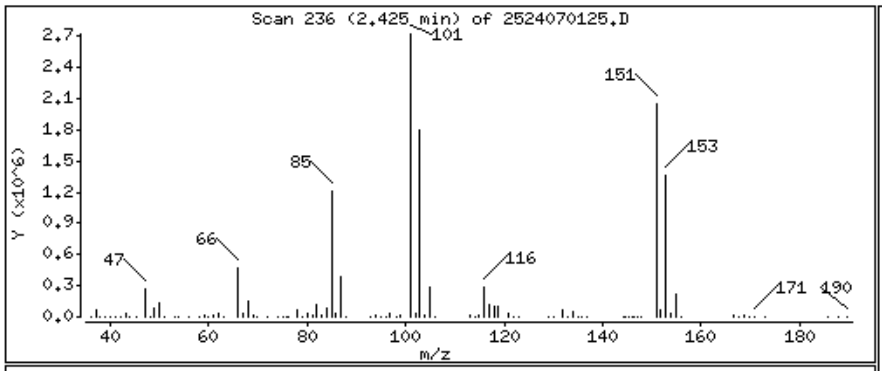
Client ID: ICT14A_062024 Instrument: ms25.i

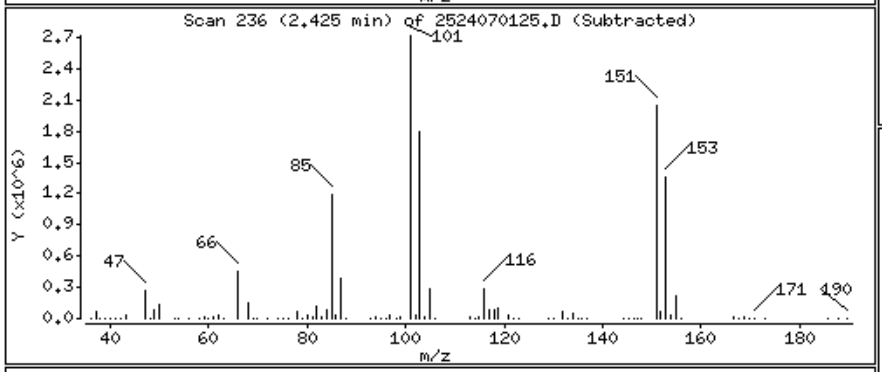
Sample Info: 3366026018;;1;;;;;

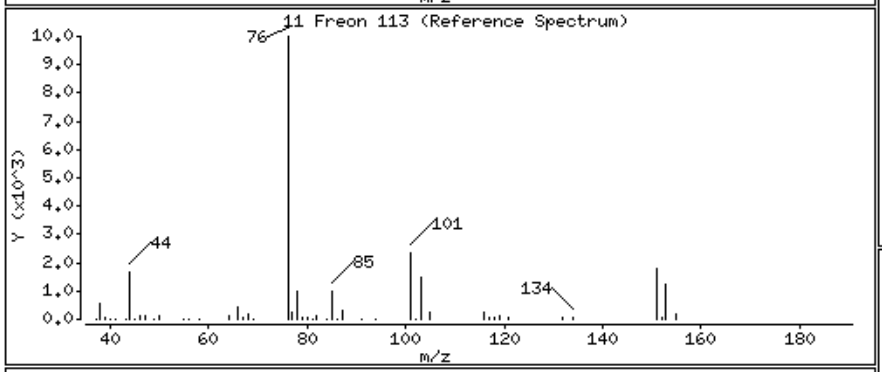
Purge Volume: 5.0 Operator: TMP

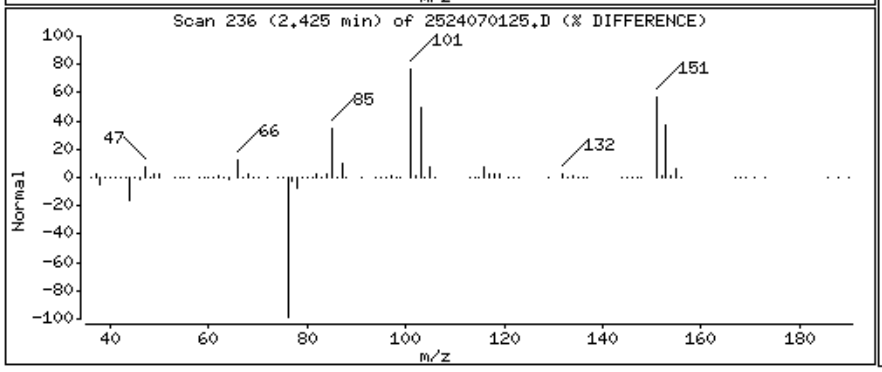
Column phase: DB-VRX Column diameter: 0.25

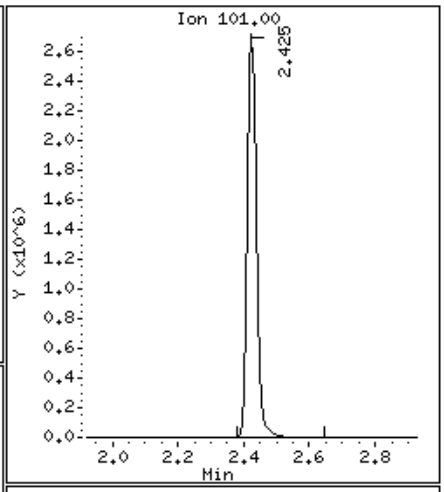
11 Freon 113 Concentration: 705.099 ug/L

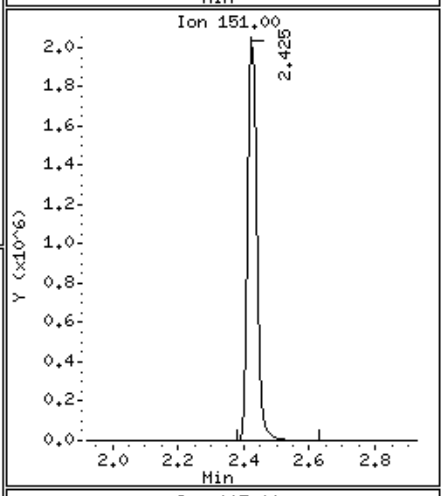


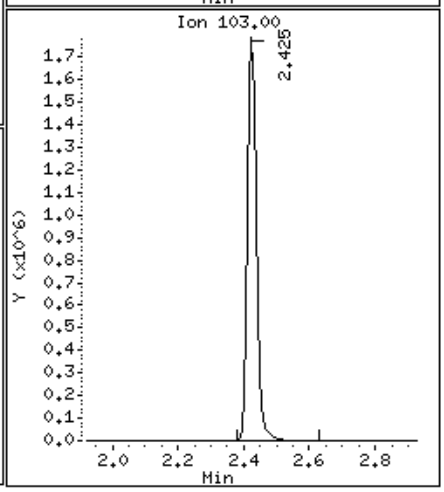












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070125.D Page 4

Date : 01-JUL-2024 18:03

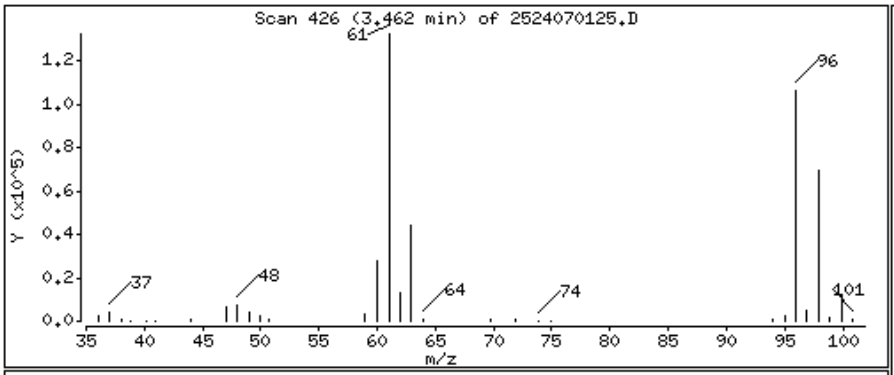
Client ID: ICT14A_062024 Instrument: ms25.i

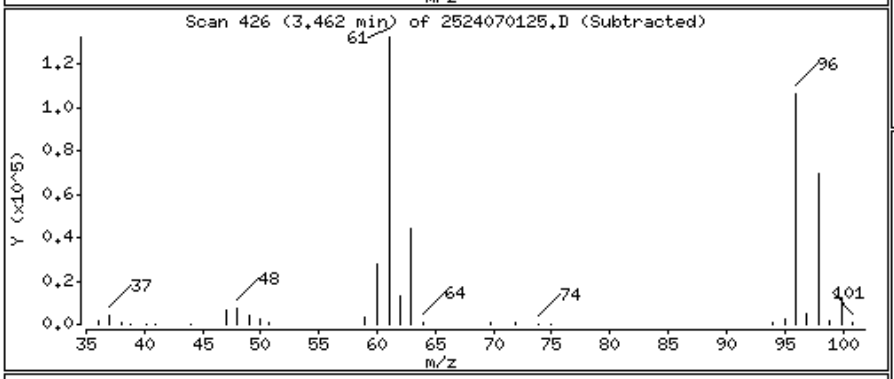
Sample Info: 3366026018;;1;;;;;

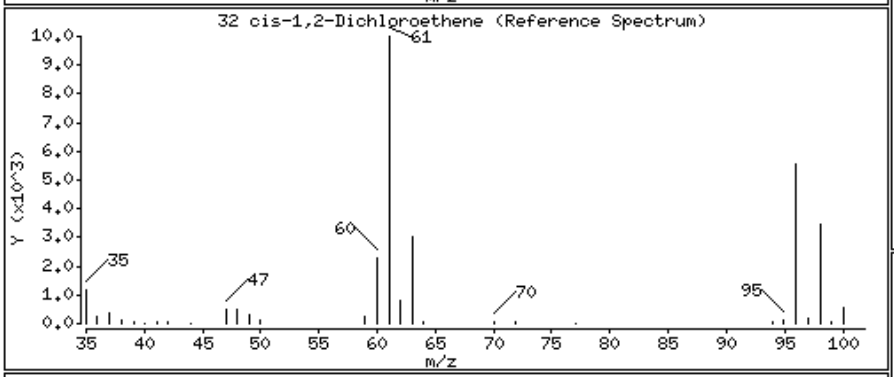
Purge Volume: 5.0 Operator: TMP

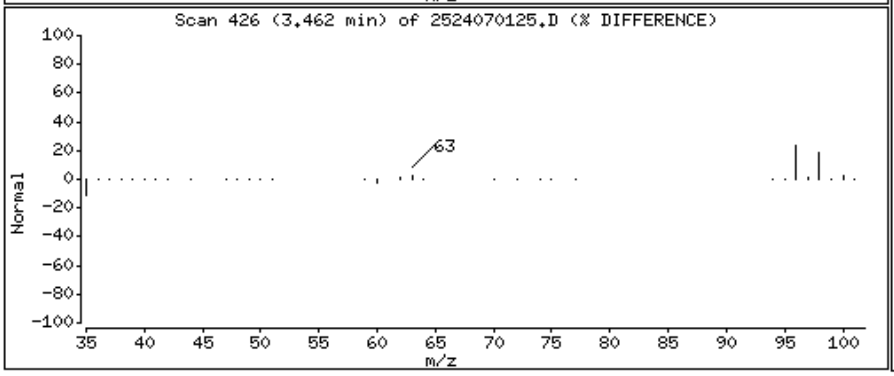
Column phase: DB-VRX Column diameter: 0.25

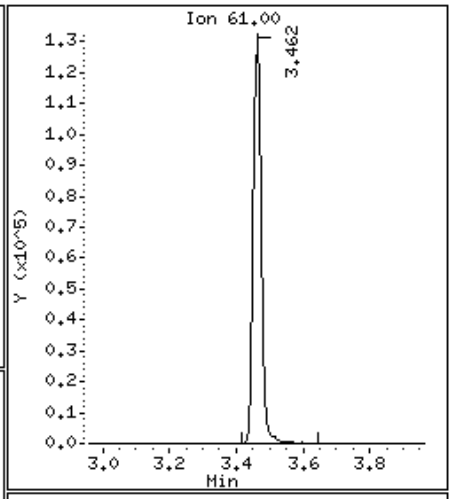
32 cis-1,2-Dichloroethene Concentration: 20.7783 ug/L

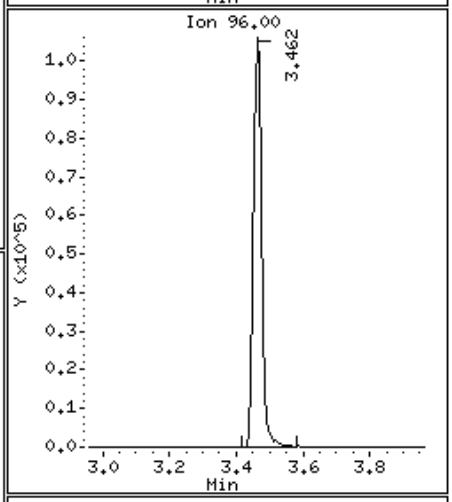


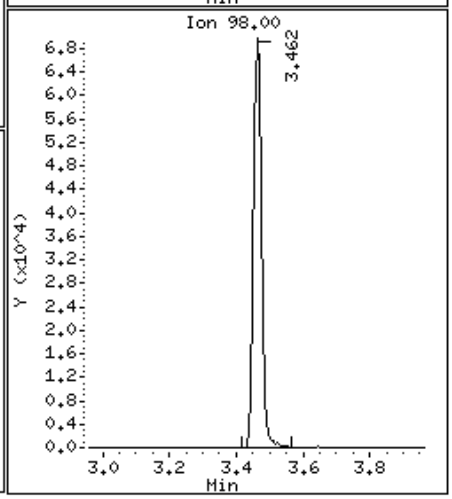












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070125.D Page 5

Date : 01-JUL-2024 18:03

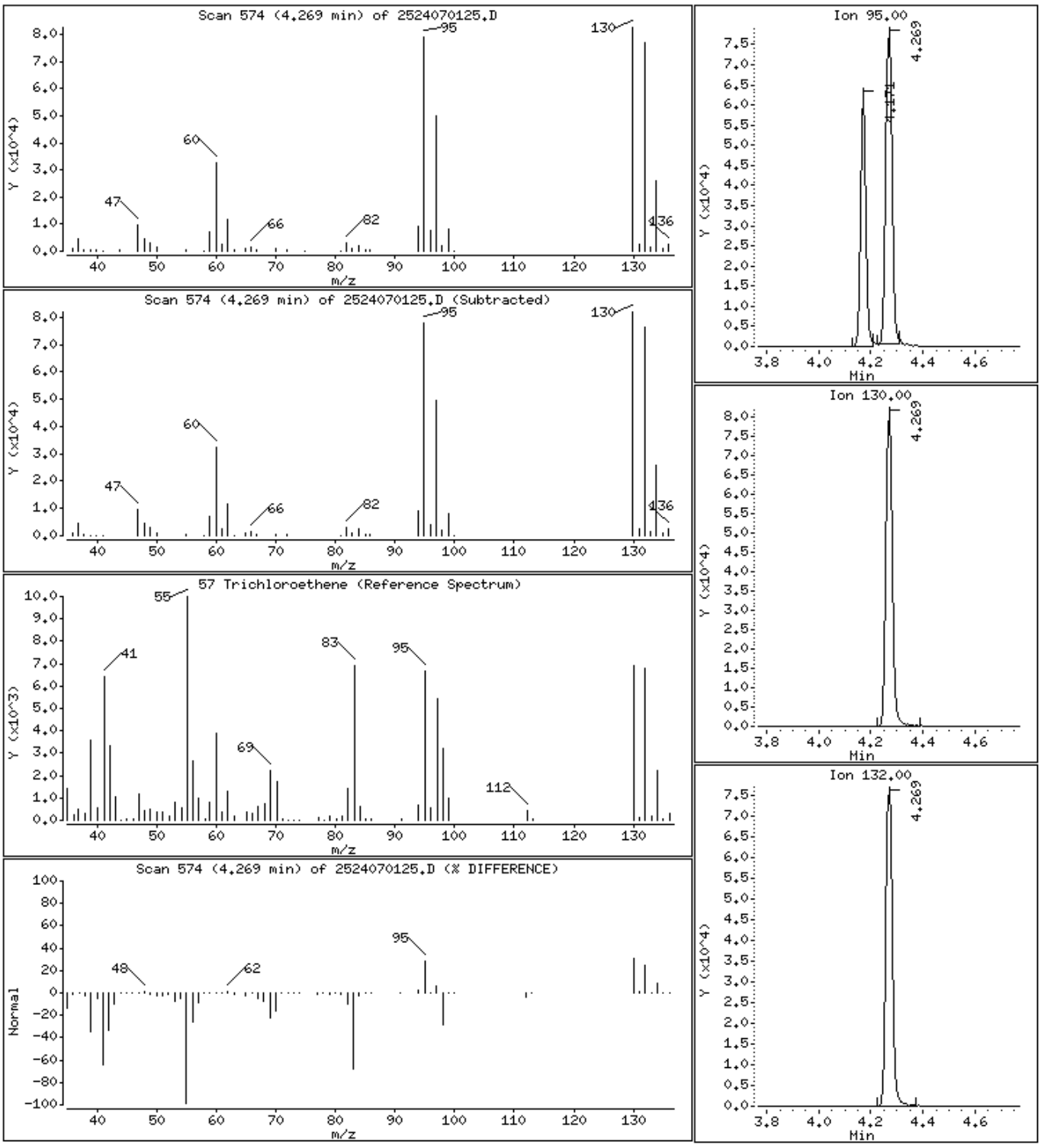
Client ID: ICT14A_062024 Instrument: ms25.i

Sample Info: 3366026018;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 14.6873 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070125.D
Inj Date : 01-JUL-2024 18:03
InstruID : ms25.i
LabSampID : 3366026018

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:27
Client ID: ICT14A_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407012
Inj Date: 01-JUL-2024 18:03
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
Acetonitrile
tert-Amyl Alcohol
Bromodichloromethane
1-Chlorobutane
3-Chloro-1-propene
1,2-Dichloroethane
1,1-Dichloroethene
trans-1,2-Dichloroethene
Dichlorofluoromethane
Ethyl Ether
Ethyl methacrylate
Methyl acetate
Methylene Chloride
2-Nitropropane
1,1,1-Trichloroethane
Trichlorofluoromethane

Data File: 2524070129.D Page 1
Report Date: 02-Jul-2024 13:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070129.D
Lab Smp Id: 1801
Inj Date : 01-JUL-2024 19:24
Operator : TMP Inst ID: ms25.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\25-8260b09D.m
Meth Date : 01-Jul-2024 09:38 tmp Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	498834	46.0686	46.0686	
2	Chloromethane	50	1.644	1.644	(0.394)	488258	51.6374	51.6374	
3	Vinyl Chloride	62	1.704	1.704	(0.409)	614565	50.2062	50.2062	
4	Bromomethane	94	1.922	1.922	(0.461)	346665	59.2478	59.2478	
5	Chloroethane	64	2.004	2.004	(0.481)	407974	49.3376	49.3376	
6	Pentane	41	2.091	2.091	(0.502)	253895	32.9262	32.9262	
7	Trichlorofluoromethane	101	2.097	2.097	(0.503)	806394	48.0948	48.0948	
8	Dichlorofluoromethane	67	2.124	2.124	(0.509)	803442	51.7876	51.7876	
9	Ethyl Ether	74	2.277	2.277	(0.546)	238870	50.6319	50.6319	
10	1,1-Dichloroethene	61	2.413	2.413	(0.579)	466732	49.5776	49.5776	
12	Carbon Disulfide	76	2.446	2.446	(0.587)	980791	48.2955	48.2955	
11	Freon 113	101	2.424	2.424	(0.581)	312515	47.1968	47.1968	
13	Iodomethane	127	2.506	2.506	(0.601)	177573	48.6684	48.6684	
14	Acrolein	56	2.599	2.599	(0.623)	346073	227.904	227.904	
16	3-Chloro-1-propene	41	2.681	2.681	(0.643)	393205	47.9398	47.9398	
15	Isopropyl Alcohol	45	2.653	2.648	(0.636)	114964	231.381	231.381	
17	Methylene Chloride	84	2.741	2.741	(0.657)	396198	51.5219	51.5219	
18	Acetone	58	2.752	2.752	(0.660)	196873	231.076	231.076	
19	Methyl acetate	74	2.812	2.812	(0.674)	83692	47.8030	47.8030	
20	trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	486325	52.7435	52.7435	
21	Hexane	57	2.861	2.866	(0.686)	652924	42.5264	42.5264	

Data File: 2524070129.D Page 2
Report Date: 02-Jul-2024 13:12

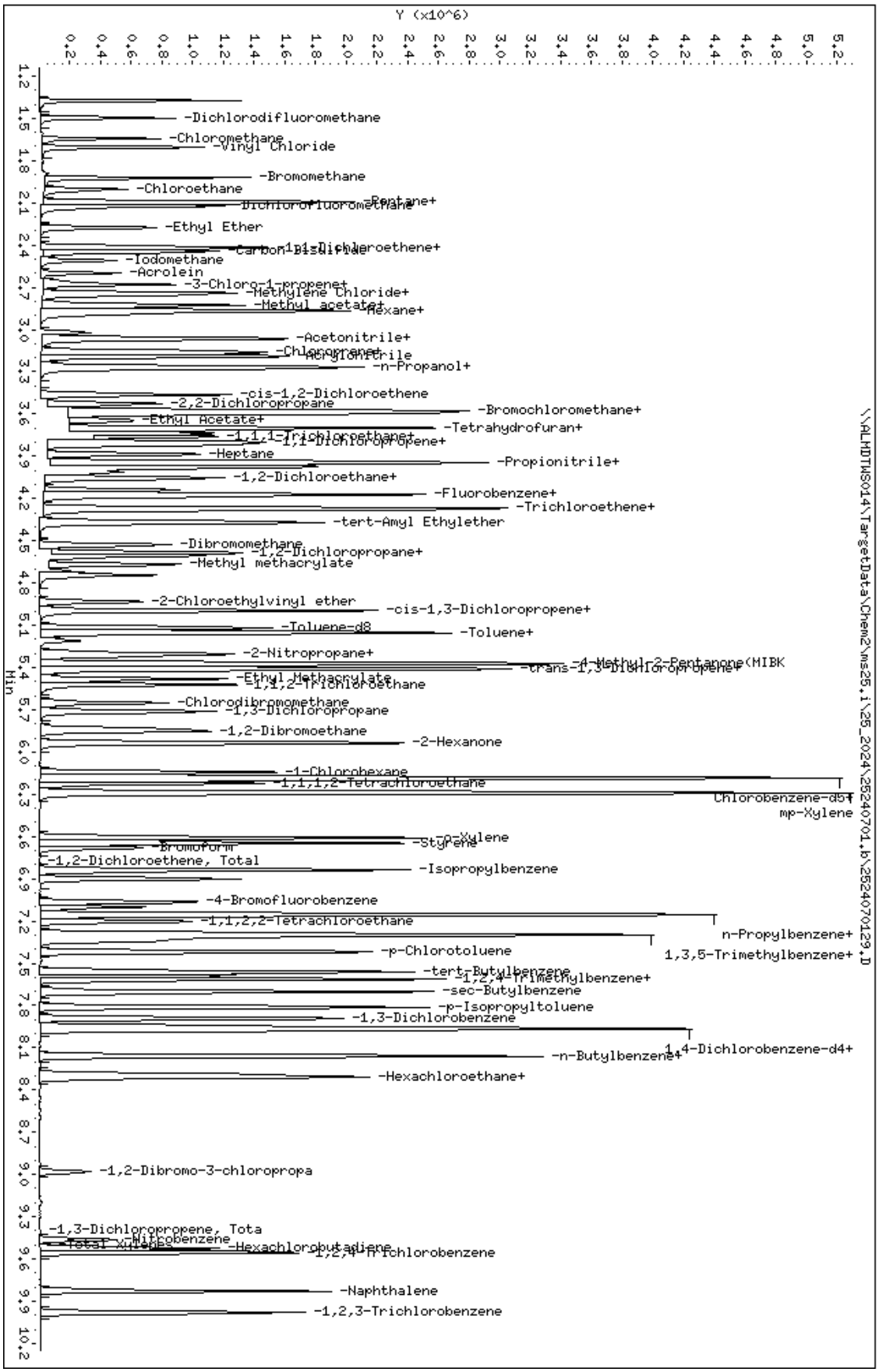
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1152057	48.7080	48.7080	
	23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	206486	242.775	242.775	
	24 Acetonitrile	41	3.019	3.019	(0.724)	250935	263.391	263.391	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1115640	54.5178	54.5178	
	26 Chloroprene	53	3.155	3.155	(0.757)	569907	54.9316	54.9316	
	27 1,1-Dichloroethane	63	3.172	3.166	(0.761)	680931	54.2058	54.2058	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	862284	263.567	263.567	
	30 n-Propanol	41	3.265	3.265	(0.783)	208424	516.984	516.984(Q)	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1190647	54.7819	54.7819	
	31 Vinyl acetate	86	3.275	3.275	(0.785)	95017	44.3568	44.3568(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	518743	55.4853	55.4853	
	33 2,2-Dichloropropane	77	3.526	3.526	(0.846)	429594	42.9079	42.9079	
M	100 1,2-Dichloroethene, Total	61				1005068	108.229	108.229	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	221828	55.0202	55.0202	
	35 Cyclohexane	84	3.586	3.586	(0.860)	557137	49.6649	49.6649	
	36 Chloroform	83	3.597	3.597	(0.863)	737747	54.4019	54.4019	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	385633	47.4214	47.4214	
	38 Methyl acrylate	55	3.657	3.652	(0.877)	391111	51.9511	51.9511	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	460462	46.1963	46.1963(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	581183	252.520	252.520	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	220502	28.5570	28.5570	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	573847	54.3658	54.3658	
	43 2-Butanone	72	3.761	3.761	(0.902)	274431	246.654	246.654(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	525343	52.6165	52.6165	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	324991	50.6159	50.6159	
	46 Heptane	71	3.887	3.887	(0.932)	234748	40.4687	40.4687	
	48 Propionitrile	54	3.941	3.941	(0.945)	326501	263.547	263.547	
	47 Benzene	78	3.941	3.941	(0.945)	1594198	51.9478	51.9478	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	195071	52.5264	52.5264	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1123478	53.5497	53.5497	
$	51 1,2-Dichloroethane-d4	65	4.012	4.018	(0.962)	240797	29.5834	29.5834(QM)	MP
	54 Isobutyl alcohol	42	3.985	3.985	(0.956)	92586	490.108	490.108(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	499737	51.8014	51.8014	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	165289	253.295	253.295	
*	55 Fluorobenzene	96	4.170	4.170	(1.000)	978599	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	900701	47.4633	47.4633	
	57 Trichloroethene	95	4.269	4.269	(1.024)	414971	53.4284	53.4284	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	608754	50.3421	50.3421	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	905838	49.5349	49.5349	
	60 Dibromomethane	93	4.525	4.525	(1.085)	262807	53.5250	53.5250	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	400701	54.2513	54.2513	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	501254	48.8023	48.8023	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	319532	54.6629	54.6629	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	256232	47.4218	47.4218	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	622674	49.3751	49.3751	
	67 Octane	85	5.000	4.994	(0.810)	192550	41.9958	41.9958	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	871544	29.5285	29.5285	
	69 Toluene	92	5.152	5.152	(0.835)	958958	51.2608	51.2608	
	70 Chloroacetonitrile	75	5.213	5.213	(0.844)	119639	256.541	256.541	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	488304	238.119	238.119	
	72 1,1-Dichloro-2-propanone	63	5.311	5.311	(0.860)	43897	221.559	221.559(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	1920002	259.853	259.853	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	570219	48.8317	48.8317	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	376835	55.3191	55.3191	

Data File: 2524070129.D
Report Date: 02-Jul-2024 13:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
76 Ethyl methacrylate	69	5.480	5.480	(0.888)	565777	50.1753	50.1753	
77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	306716	53.3627	53.3627	
78 Chlorodibromomethane	129	5.649	5.649	(0.915)	399400	49.0267	49.0267	
79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	639638	56.3245	56.3245	
80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	384000	50.1910	50.1910	
81 2-Hexanone	43	5.933	5.933	(0.961)	1280419	252.621	252.621	
82 1-Chlorohexane	91	6.146	6.140	(0.996)	494948	50.2915	50.2915	
* 83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	372797	30.0000		
85 Ethylbenzene	106	6.189	6.189	(1.003)	557843	50.0465	50.0465	
84 Chlorobenzene	112	6.184	6.184	(1.002)	1025816	53.8087	53.8087	
86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	359830	49.9897	49.9897	
87 mp-Xylene	106	6.287	6.287	(1.019)	1335268	100.898	100.898	
M 120 1,3-Dichloropropene, Total	75				1192893	98.2069	98.2069	
88 o-Xylene	106	6.609	6.609	(1.071)	636634	50.1813	50.1813	
89 Styrene	104	6.648	6.648	(0.836)	1024295	51.1154	51.1154	
90 Bromoform	173	6.680	6.680	(0.840)	262489	46.4062	46.4062	
91 Isopropylbenzene	105	6.839	6.839	(0.860)	1469336	52.6006	52.6006	
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	271232	28.9415	28.9415	
M 121 TOTAL XYLENES	106				1971902	151.079	151.079	
94 n-Propylbenzene	120	7.155	7.155	(0.900)	448854	54.8043	54.8043	
93 Bromobenzene	156	7.155	7.155	(0.900)	430193	53.7113	53.7113	
95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	444566	55.8452	55.8452	
97 1,3,5-Trimethylbenzene	105	7.302	7.302	(0.918)	1248960	54.7937	54.7937	
96 o-Chlorotoluene	91	7.291	7.291	(0.917)	1203792	55.8653	55.8653	
98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	138162	53.8108	53.8108	
99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	111145	45.5244	45.5244(Q)	
101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1096825	56.1956	56.1956	
102 tert-Butylbenzene	134	7.559	7.559	(0.951)	305260	55.9950	55.9950	
103 Pentachloroethane	117	7.586	7.586	(0.954)	253240	46.2813	46.2813(QM)	MP
104 1,2,4-Trimethylbenzene	105	7.613	7.613	(0.957)	1257214	52.0945	52.0945	
105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1610841	57.1797	57.1797	
106 p-Isopropyltoluene	134	7.810	7.810	(0.982)	356870	55.3176	55.3176	
107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	747542	55.4001	55.4001	
* 108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	338760	30.0000		
109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	757636	53.8670	53.8670	
111 n-Butylbenzene	134	8.159	8.159	(1.026)	316302	52.4652	52.4652(Q)	
110 Benzyl Chloride	126	8.159	8.159	(1.026)	111561	33.2513	33.2513(Q)	
112 Hexachloroethane	117	8.290	8.290	(1.043)	239023	49.4484	49.4484	
113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	709485	55.1983	55.1983	
114 1,2-Dibromo-3-chloropropane	75	8.977	8.983	(1.129)	69900	45.9472	45.9472	
115 Nitrobenzene	77	9.463	9.463	(1.190)	218048	442.829	442.829	
116 Hexachlorobutadiene	225	9.523	9.523	(1.198)	199304	46.8849	46.8849	
117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	453207	53.2436	53.2436	
118 Naphthalene	128	9.829	9.829	(1.236)	1193032	47.6983	47.6983	
119 1,2,3-Trichlorobenzene	180	9.981	9.981	(1.255)	455034	47.5925	47.5925	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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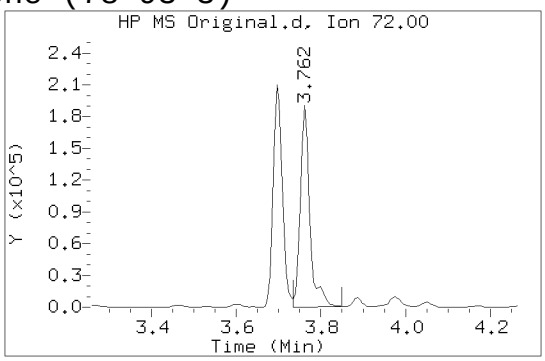
Date : 01-JUL-2024 19:24
Client ID:
Sample Info: 1801;;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240701.b\2524070129.D
Inj Date : 01-JUL-2024 19:24
InstruID : ms25.i
LabSampID : 1801

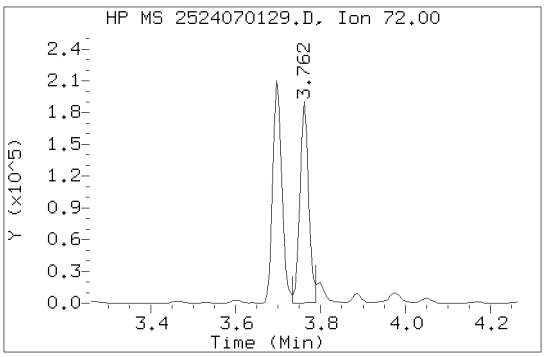
2-Butanone (78-93-3)

Reason Code: MP

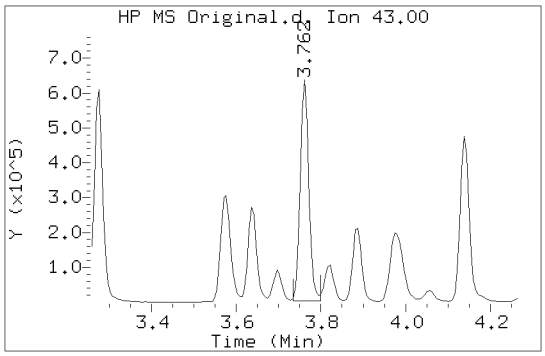
BEFORE
MASS
72
AREA
297327
HEIGHT
190379
01-Jul-2024
19:57



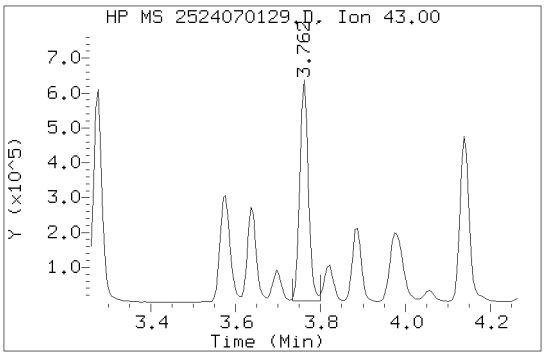
AFTER
MASS
72
AREA
274431
HEIGHT
190380
02-Jul-2024
13:12



BEFORE
MASS
43
AREA
898670
HEIGHT
634368
01-Jul-2024
19:57



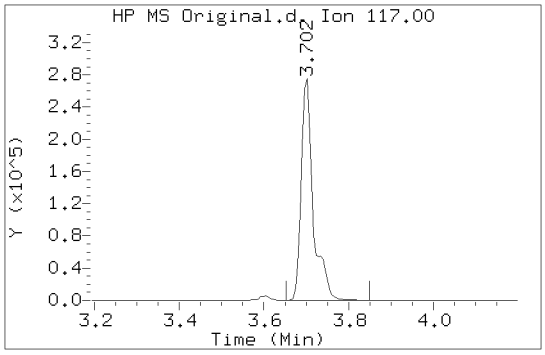
AFTER
MASS
43
AREA
898670
HEIGHT
634368
02-Jul-2024
13:12



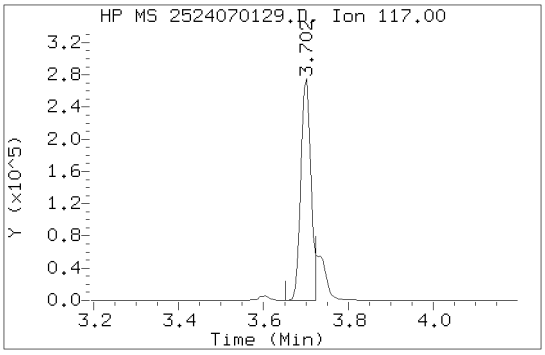
Carbon Tetrachloride (56-23-5)

Reason Code: MP

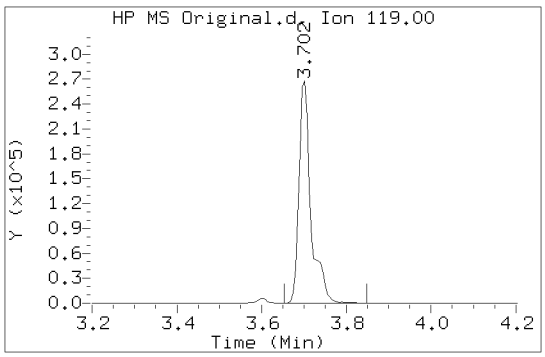
BEFORE
MASS
117
AREA
543706
HEIGHT
275200
01-Jul-2024
19:57



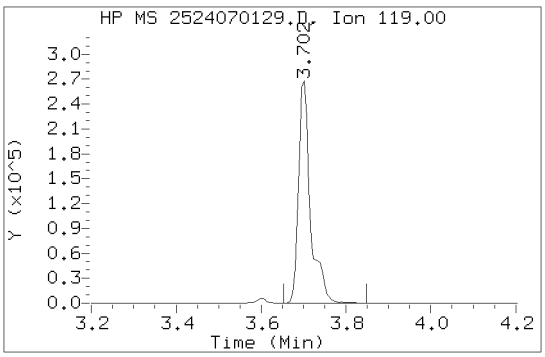
AFTER
MASS
117
AREA
460462
HEIGHT
275200
02-Jul-2024
13:12



BEFORE
MASS
119
AREA
525050
HEIGHT
267904
01-Jul-2024
19:57



AFTER
MASS
119
AREA
525050
HEIGHT
267904
02-Jul-2024
13:12



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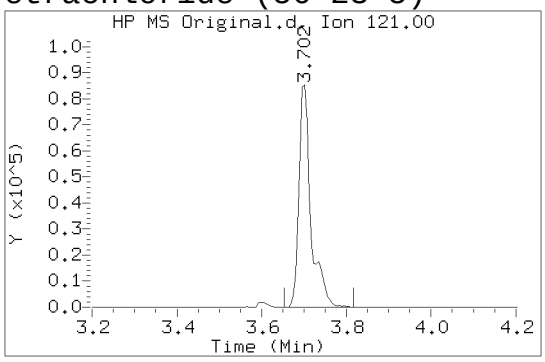
Inj Date : 01-JUL-2024 19:24
InstruID : ms25.i
LabSampID : 1801

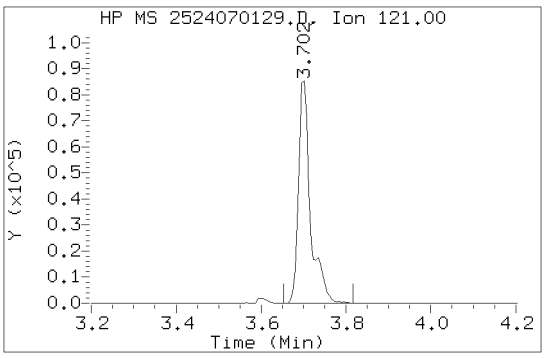
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
167695
HEIGHT
85328
01-Jul-2024
19:57



AFTER
MASS
121
AREA
167695
HEIGHT
85328
02-Jul-2024
13:12



Isobutyl alcohol (78-83-1)

Reason Code: MP

BEFORE
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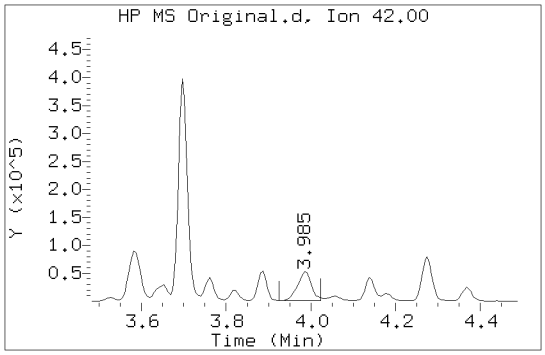
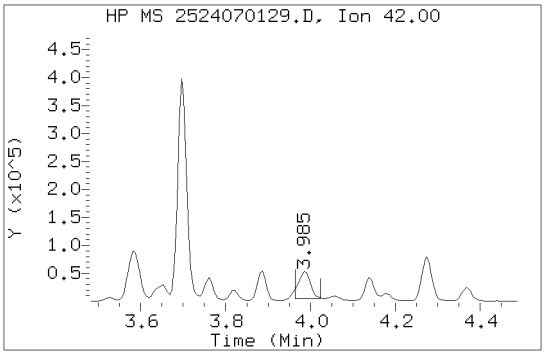
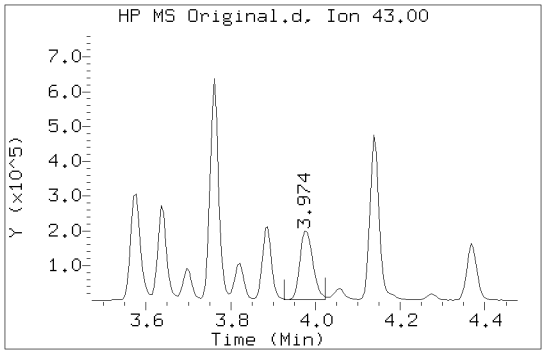
AREA
118043
HEIGHT
51326
01-Jul-2024
19:57



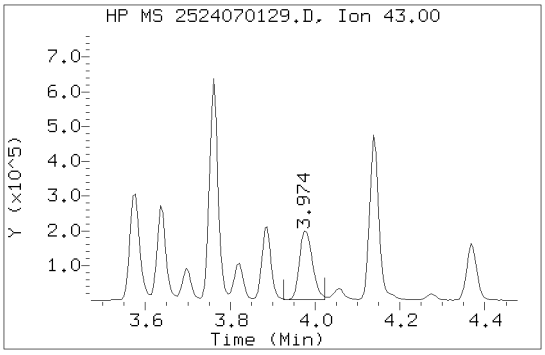
AFTER
MASS
42
AREA
92586
HEIGHT
47249
02-Jul-2024
13:12



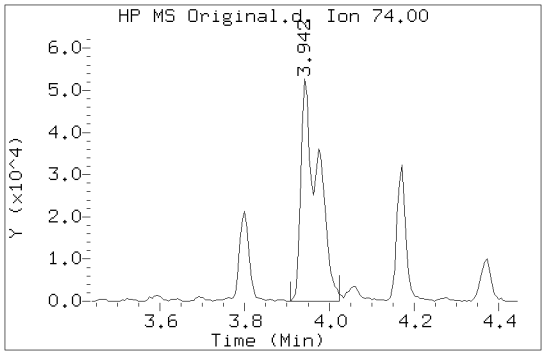
BEFORE
MASS
43
AREA
430184
HEIGHT
198581
01-Jul-2024
19:57



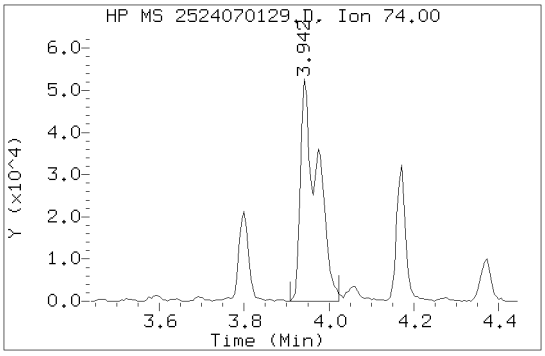
AFTER
MASS
43
AREA
430184
HEIGHT
198581
02-Jul-2024
13:12



BEFORE
MASS
74
AREA
147140
HEIGHT
52704
01-Jul-2024
19:57



AFTER
MASS
74
AREA
147140
HEIGHT
52704
02-Jul-2024
13:12



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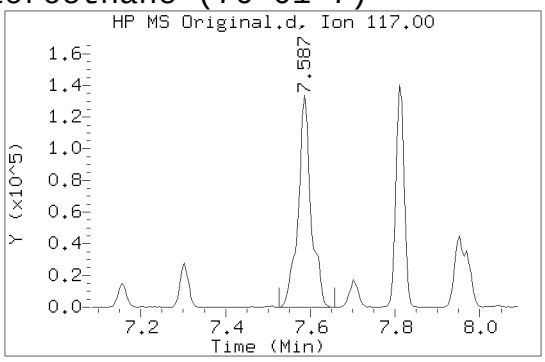
Inj Date : 01-JUL-2024 19:24
InstruID : ms25.i
LabSampID : 1801

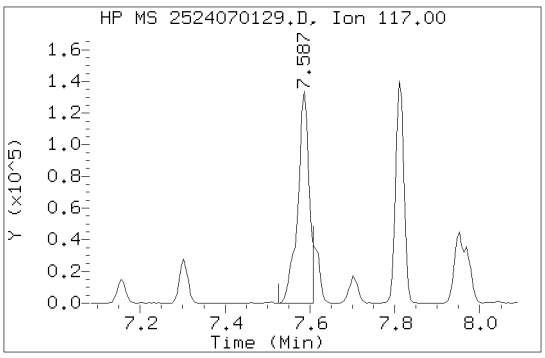
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
283131
HEIGHT
133824
01-Jul-2024
19:57



AFTER
MASS
117
AREA
253240
HEIGHT
133824
02-Jul-2024
13:12



BEFORE
MASS
119
AREA
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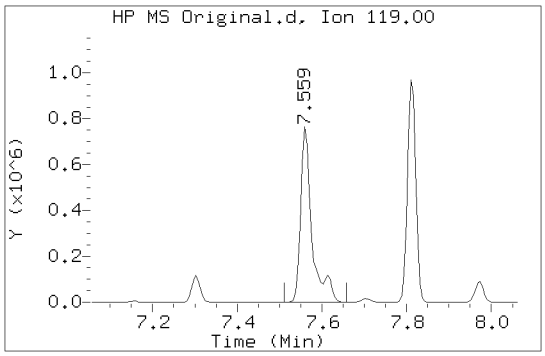
HEIGHT
764800
01-Jul-2024
19:57



AFTER
MASS
119
AREA
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HEIGHT
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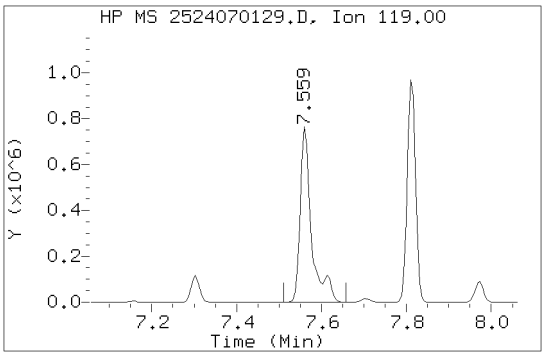
02-Jul-2024
13:12



BEFORE
MASS
167
AREA
207370
HEIGHT
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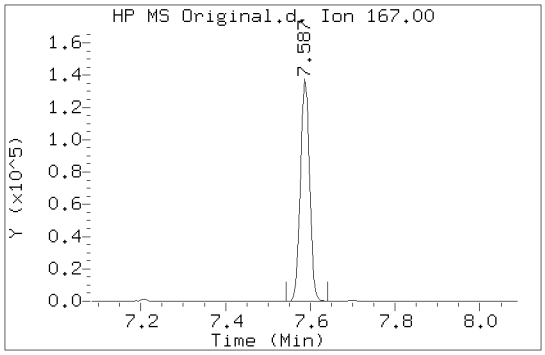
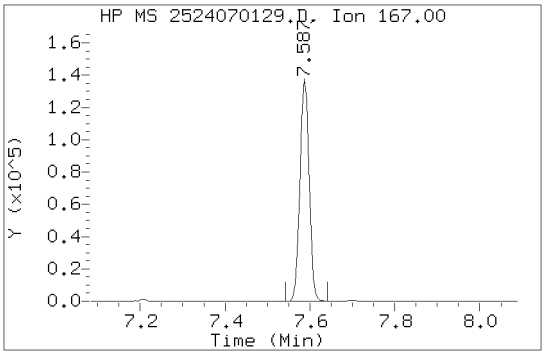
01-Jul-2024
19:57



AFTER
MASS
167
AREA
207370
HEIGHT
137664
02-Jul-2024
13:12



1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
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HEIGHT
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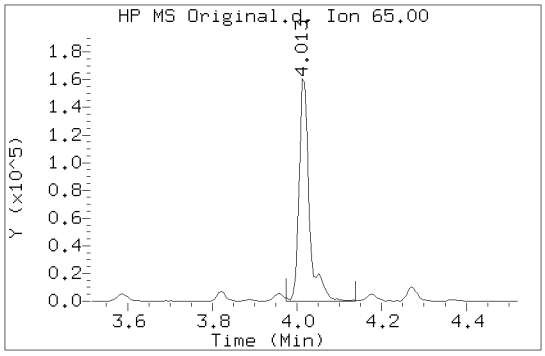
01-Jul-2024
19:57



AFTER
MASS
65
AREA
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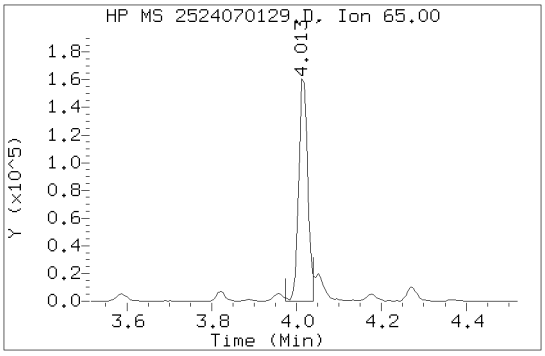
HEIGHT
160470
02-Jul-2024
13:12



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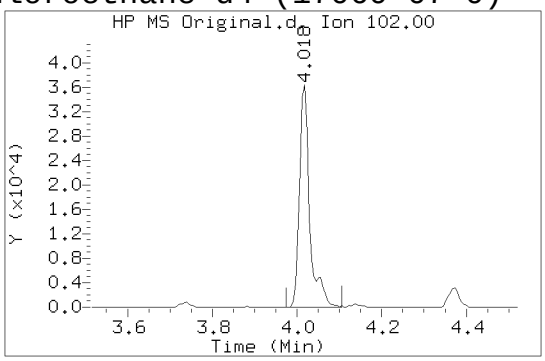
Inj Date : 01-JUL-2024 19:24
InstruID : ms25.i
LabSampID : 1801

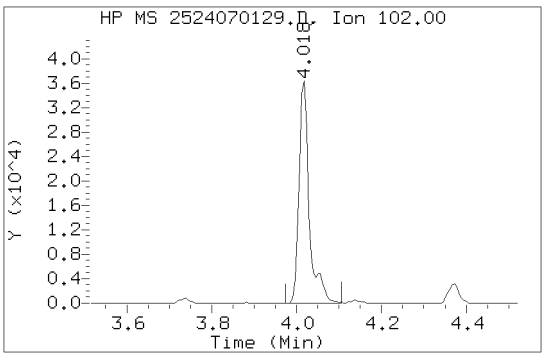
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
102
AREA
61449
HEIGHT
36400
01-Jul-2024
19:57



AFTER
MASS
102
AREA
61449
HEIGHT
36400
02-Jul-2024
13:12



BEFORE
MASS
51
AREA
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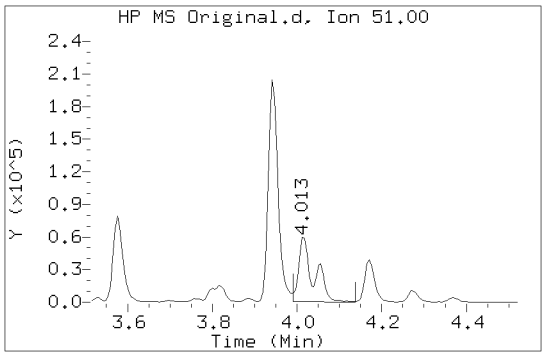
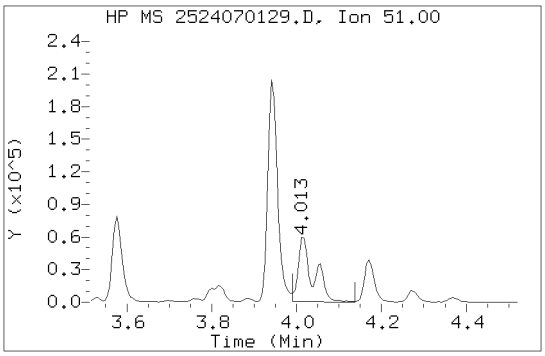
HEIGHT
59202
01-Jul-2024
19:57



AFTER
MASS
51
AREA
147490
HEIGHT
59202
02-Jul-2024
13:12



UNASSIGNED PEAK REPORT

Report Date: 07/02/2024 13:12
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240701.b/252407012
Inj Date: 01-JUL-2024 19:24
Operator: TMP

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 25240702

Volatiles by EPA 8260D

Workorder

3366026

Client

ALS Houston

Project

AHH130|HS24061330

07/10/2024

www.alsglobal.com

Data File: 2524070200.D Page 1
Report Date: 03-Jul-2024 03:20

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070200.D
Lab Smp Id: 1000
Inj Date : 02-JUL-2024 08:36
Operator : TMP Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms 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: ALMDTW7060

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	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
7.057	8.129	(0.000)	95	71104			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	13060			15.00- 40.00	18.37
7.057	8.129	(0.000)	75	33856			30.00- 60.00	47.61
7.057	8.129	(0.000)	96	5137			5.00- 9.00	7.22
7.057	8.129	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
7.057	8.129	(0.000)	174	61072			50.00- 0.00	85.89
7.057	8.129	(0.000)	175	4688			5.00- 9.00	7.68
7.057	8.129	(0.000)	176	59120			95.00- 101.00	96.80
7.057	8.129	(0.000)	177	3772			5.00- 9.00	6.38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.37
75	30.00 - 60.00% of mass 95	47.61
96	5.00 - 9.00% of mass 95	7.22
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	85.89
175	5.00 - 9.00% of mass 174	6.59 (7.68)
176	95.00 - 101.00% of mass 174	83.15 (96.80)
177	5.00 - 9.00% of mass 176	5.30 (6.38)

Data File: 2524070200.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1078
Location of Maximum: 95.00
Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	337	62.00	3066	84.00	52	128.00	273
37.00	3114	63.00	2339	87.00	3402	130.00	322
38.00	2433	64.00	346	88.00	3080	135.00	135
39.00	975	67.00	185	91.00	416	137.00	99
44.00	586	68.00	7970	92.00	2358	141.00	732
45.00	627	69.00	7074	93.00	2959	143.00	717
46.00	77	70.00	495	94.00	8227	146.00	61
47.00	872	72.00	456	95.00	71104	148.00	158
48.00	356	73.00	3205	96.00	5137	155.00	256
49.00	2702	74.00	11860	97.00	288	157.00	256
50.00	13060	75.00	33856	104.00	345	172.00	361
51.00	4001	76.00	2917	105.00	52	174.00	61072
52.00	181	77.00	680	106.00	231	175.00	4688
55.00	95	78.00	469	115.00	131	176.00	59120
56.00	958	79.00	2620	116.00	288	177.00	3772
57.00	1972	80.00	658	117.00	511	207.00	53
60.00	498	81.00	2557	118.00	236		
61.00	3329	82.00	600	119.00	502		

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Date : 02-JUL-2024 08:36

Client ID:

Sample Info: 1000

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Instrument: ms25.i

Operator: TMP

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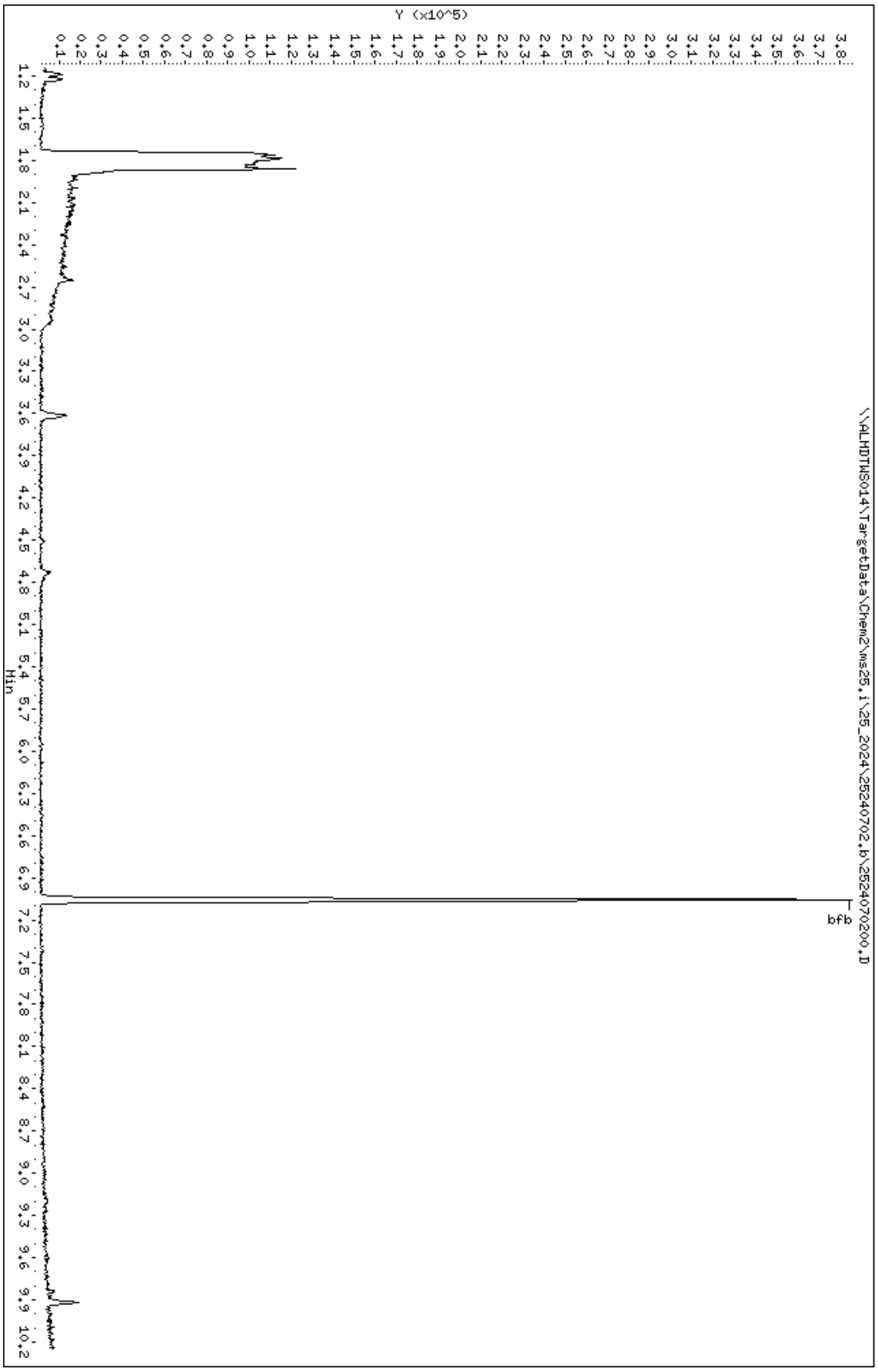

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NO MANUAL INTEGRATIONS

Data File: 2524070201.D Page 1
Report Date: 09-Jul-2024 12:28

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070201.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260all.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
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)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	470646	50.0000	45.6764	
2 Chloromethane	50	1.644	1.644	(0.394)	457634	50.0000	50.8589	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	574563	50.0000	49.3261	
4 Bromomethane	94	1.922	1.922	(0.461)	303330	50.0000	54.4433	
5 Chloroethane	64	2.004	2.004	(0.481)	386487	50.0000	49.1154	
6 Pentane	41	2.092	2.092	(0.502)	291591	50.0000	39.9575	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	748482	50.0000	46.9117	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	750641	50.0000	50.8455	
9 Ethyl Ether	74	2.277	2.277	(0.546)	237222	50.0000	52.8405	
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	451270	50.0000	50.3737	
11 Freon 113	101	2.424	2.424	(0.581)	301323	50.0000	47.8215	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	941070	50.0000	48.6969	
13 Iodomethane	127	2.506	2.506	(0.601)	145300	50.0000	41.9206	
14 Acrolein	56	2.599	2.599	(0.623)	358933	250.000	248.398	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	130765	250.000	277.191	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	387806	50.0000	49.6804	
17 Methylene Chloride	84	2.741	2.741	(0.657)	375902	50.0000	51.3693	
18 Acetone	58	2.752	2.752	(0.660)	212649	250.000	262.290	
19 Methyl acetate	74	2.812	2.812	(0.674)	81055	50.0000	48.6595	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	455210	50.0000	51.8804	
21 Hexane	57	2.866	2.866	(0.687)	700325	50.0000	47.9715	

Data File: 2524070201.D
Report Date: 09-Jul-2024 12:28

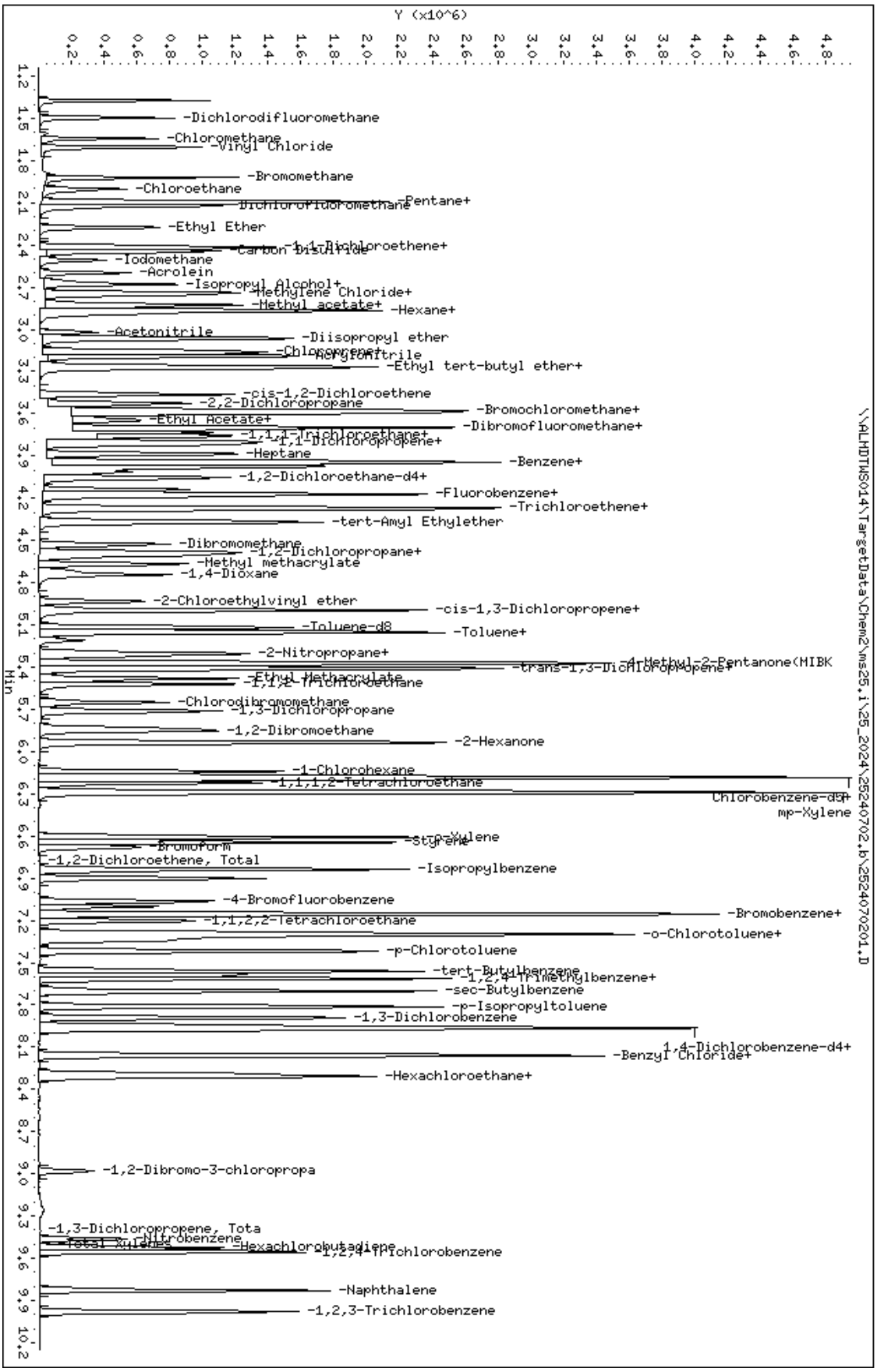
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1116165	50.0000	49.5869	
	23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	223514	250.000	276.164	
	24 Acetonitrile	41	3.019	3.019	(0.724)	263657	250.000	290.822	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1075654	50.0000	55.2378	
	26 Chloroprene	53	3.156	3.156	(0.757)	545670	50.0000	55.2710	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	640102	50.0000	53.5477	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	859594	250.000	276.111	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1147478	50.0000	55.4814	
	30 n-Propanol	41	3.265	3.265	(0.783)	199869	500.000	520.984(a)	
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	97028	50.0000	47.5718	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	498197	50.0000	55.9985	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	498307	50.0000	52.3029	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	201948	50.0000	52.6374	
	35 Cyclohexane	84	3.587	3.587	(0.860)	521476	50.0000	48.8507	
	36 Chloroform	83	3.598	3.598	(0.863)	686266	50.0000	53.1800	
	37 Ethyl Acetate	43	3.636	3.636	(0.872)	394152	50.0000	50.9410	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	396423	50.0000	55.3354	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	436912	50.0000	46.0647(M)	MP
$	41 Dibromofluoromethane	113	3.701	3.701	(0.887)	230254	30.0000	31.3370	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	596821	250.000	272.506	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	531352	50.0000	52.9007	
	43 2-Butanone	72	3.761	3.761	(0.902)	282754	250.000	267.063(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	493767	50.0000	51.9697	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	307610	50.0000	50.3461	
	46 Heptane	71	3.887	3.887	(0.932)	272889	50.0000	49.4371	
	47 Benzene	78	3.941	3.941	(0.945)	1471274	50.0000	50.3811	
	48 Propionitrile	54	3.941	3.941	(0.945)	337235	250.000	286.059	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	191322	50.0000	54.1376	
	50 tert-Amyl methyl ether	73	3.974	3.974	(0.953)	1073810	50.0000	53.7860	
	54 Isobutyl alcohol	42	3.990	3.990	(0.957)	101509	500.000	564.066(M)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	277812	30.0000	35.8672	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	478609	50.0000	52.1351	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	170861	250.000	275.154	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	931227	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	871767	50.0000	48.3013	
	57 Trichloroethene	95	4.269	4.269	(1.024)	364751	50.0000	49.3515	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	591601	50.0000	50.5484	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	862852	50.0000	49.5843	
	60 Dibromomethane	93	4.525	4.525	(1.085)	246557	50.0000	52.7699	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	378181	50.0000	53.8070	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	465316	50.0000	47.6161	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	319091	50.0000	57.3643	
	64 1,4-Dioxane	88	4.716	4.716	(1.131)	144098	1250.00	1324.40	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	245089	50.0000	47.6651	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	606595	50.0000	49.6958	
	67 Octane	85	4.994	4.994	(0.809)	227959	50.0000	51.3698	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	901064	30.0000	31.5425	
	69 Toluene	92	5.153	5.153	(0.835)	881583	50.0000	48.6898	
	70 Chloroacetonitrile	75	5.207	5.207	(0.844)	124392	250.000	275.591	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	500393	250.000	252.008	
	72 1,1-Dichloro-2-Propanone	63	5.311	5.311	(0.860)	46908	250.000	244.417	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	1968762	250.000	275.241	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	553419	50.0000	48.9662	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	326975	50.0000	49.5938	

Data File: 2524070201.D Page 3
Report Date: 09-Jul-2024 12:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.480	(0.888)	552538	50.0000	50.6257	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	292641	50.0000	52.6048	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	371257	50.0000	47.1002	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	597978	50.0000	54.4048	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	363313	50.0000	49.0695	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1336005	250.000	272.256	
	82 1-Chlorohexane	91	6.140	6.140	(0.995)	511576	50.0000	53.7074	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	360814	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	954000	50.0000	51.7035	
	85 Ethylbenzene	106	6.189	6.189	(1.003)	516708	50.0000	47.8899	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	330430	50.0000	47.4461	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1228293	100.000	95.8573	
	88 o-Xylene	106	6.610	6.610	(1.071)	584016	50.0000	47.5626	
	89 Styrene	104	6.648	6.648	(0.836)	954161	50.0000	50.0364	
	90 Bromoform	173	6.680	6.680	(0.840)	244026	50.0000	45.3382	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1351730	50.0000	50.8490	
M	100 1,2-Dichloroethene, Total	61				953407	100.000	107.879	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	270447	30.0000	30.3212	
	93 Bromobenzene	156	7.155	7.155	(0.900)	399790	50.0000	52.4467	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	420799	50.0000	53.9844	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	436111	50.0000	57.5612	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1127608	50.0000	54.9835	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1168698	50.0000	53.8727	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	134852	50.0000	55.1852	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	119962	50.0000	51.5887	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1036866	50.0000	55.8176	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	287275	50.0000	55.3683	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	255629	50.0000	49.0693(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1173596	50.0000	51.0929	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1506195	50.0000	56.1764	
	106 p-Isopropyltoluene	134	7.810	7.810	(0.982)	337037	50.0000	54.8926	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	692874	50.0000	53.9527	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	322410	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	705222	50.0000	52.6831	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	153431	50.0000	47.8409	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	309784	50.0000	53.9898	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	215037	50.0000	46.7636	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	664238	50.0000	54.2988	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	72687	50.0000	50.1638	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	233339	500.000	491.915	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	193351	50.0000	47.7863	
M	120 1,3-Dichloropropene, Total	75				1160014	100.000	98.6620	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	438873	50.0000	54.1743	
M	121 Total Xylenes	106				1812309	150.000	143.420	
	118 Naphthalene	128	9.829	9.829	(1.236)	1173465	50.0000	49.2845	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	428231	50.0000	47.0638	

QC Flag Legend

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


Y (x10^6)
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-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
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-Bromobenzene+
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Page 1

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2-Butanone (78-93-3)

Reason Code: MP

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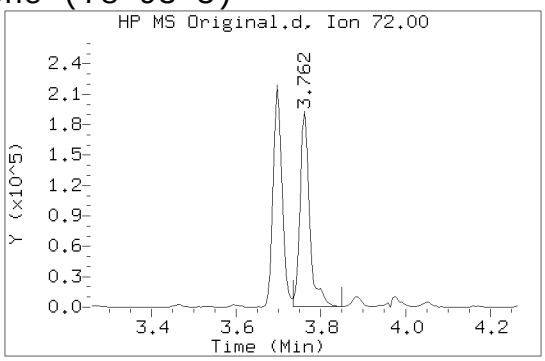

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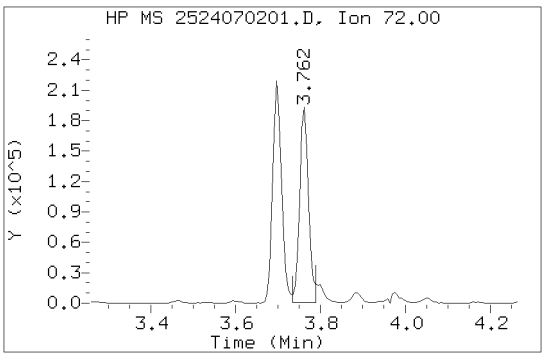

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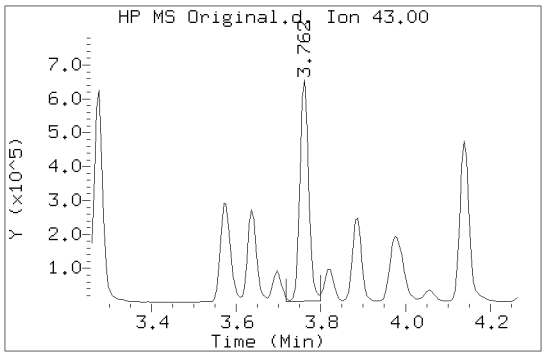

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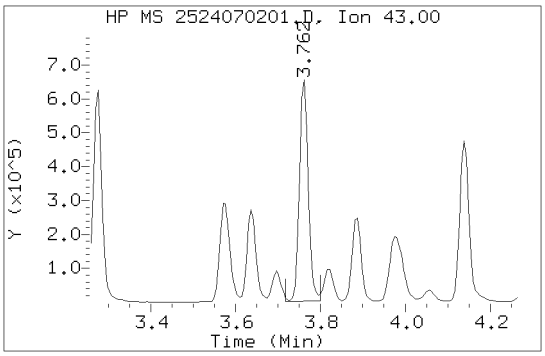

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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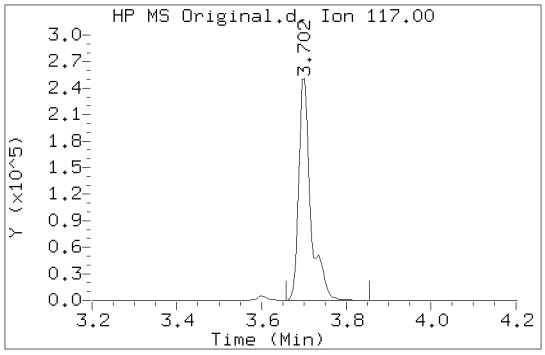

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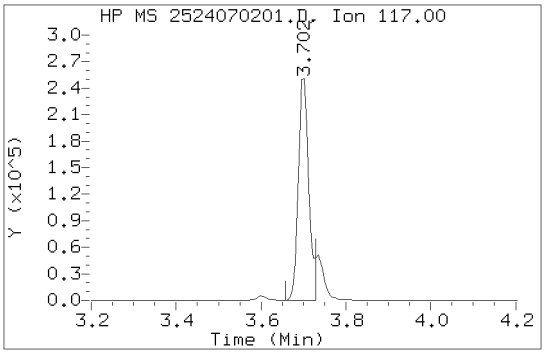

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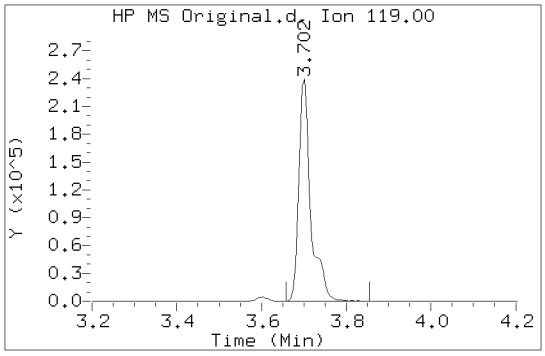
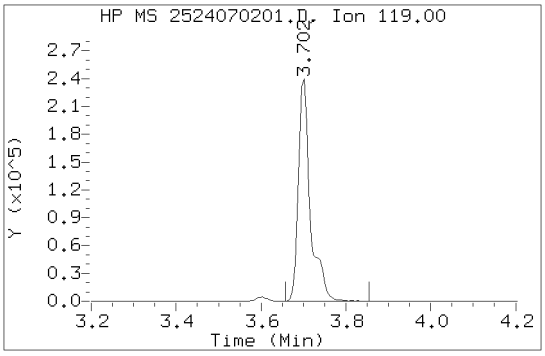


AFTER
MASS
119
AREA
472764
HEIGHT
239680
09-Jul-2024
12:28



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Inj Date : 02-JUL-2024 09:27
InstruID : ms25.i
LabSampID : 1800

Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
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HEIGHT
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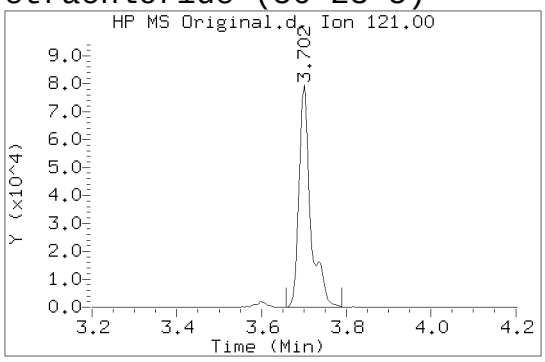
02-Jul-2024
09:39



AFTER
MASS
121
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09-Jul-2024
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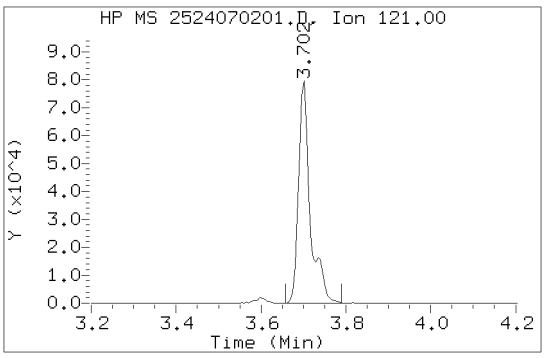

Isobutyl alcohol (78-83-1)

Reason Code: MP

BEFORE
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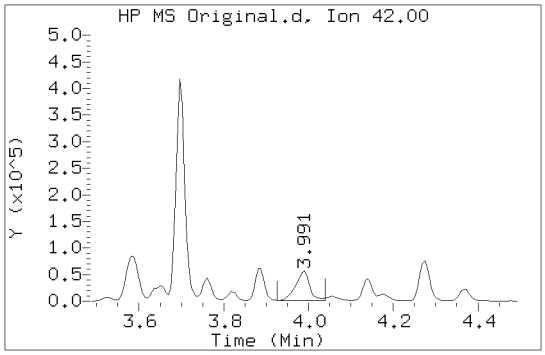
02-Jul-2024
09:39



AFTER
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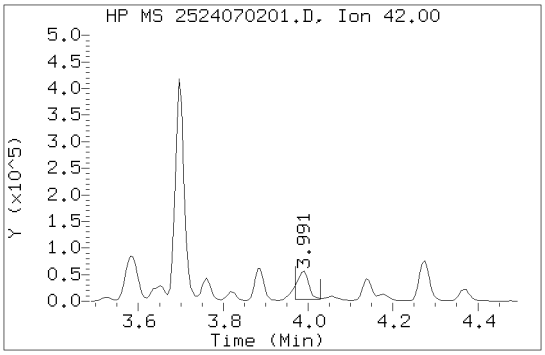
12:28



BEFORE
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43
AREA
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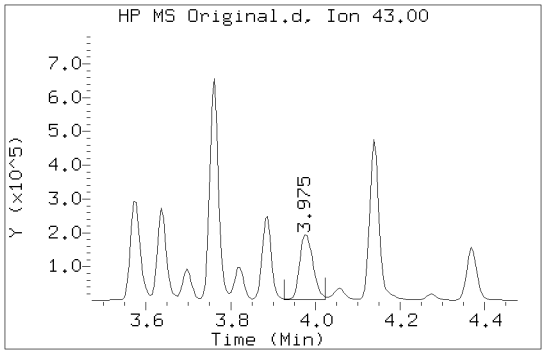
HEIGHT
191013
02-Jul-2024
09:39



AFTER
MASS
43
AREA
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HEIGHT
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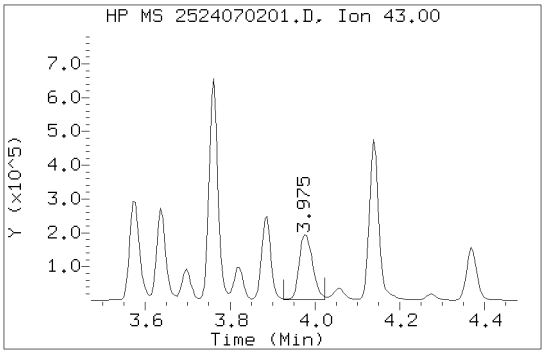
09-Jul-2024
12:28



BEFORE
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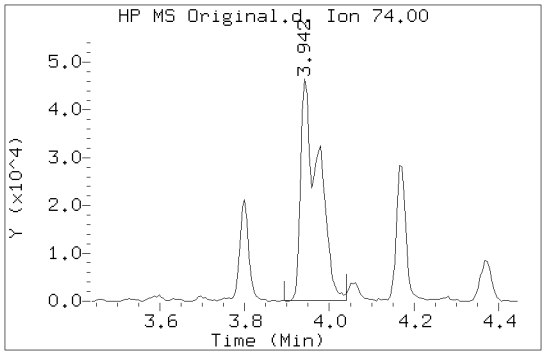
74
AREA
136222
HEIGHT
46298
02-Jul-2024
09:39



AFTER
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74
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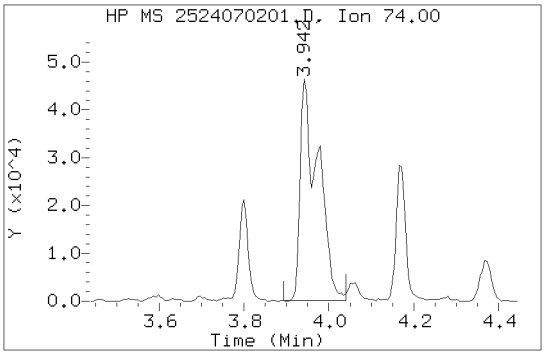
HEIGHT
46298
09-Jul-2024
12:28



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Inj Date : 02-JUL-2024 09:27
InstruID : ms25.i
LabSampID : 1800

Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE

MASS
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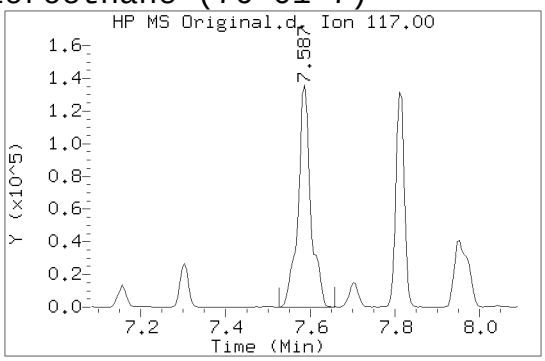
283105
HEIGHT
136000
02-Jul-2024
09:39



AFTER

MASS
117
AREA
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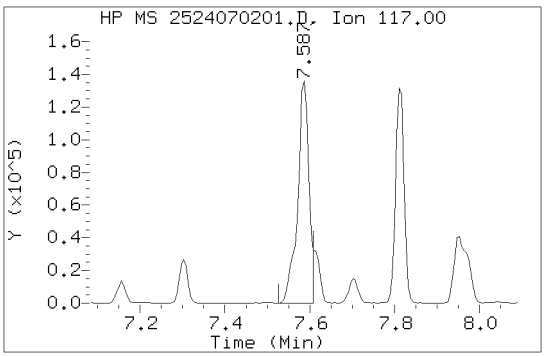
HEIGHT
136000
09-Jul-2024
12:28



BEFORE

MASS
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AREA
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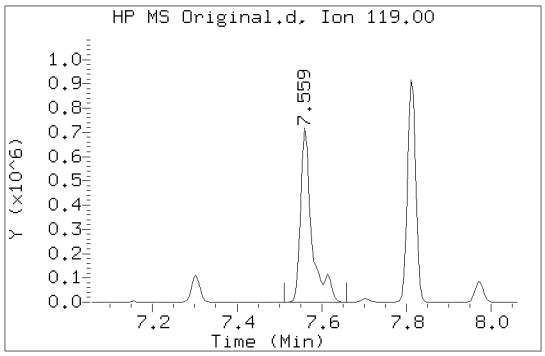
HEIGHT
718848
02-Jul-2024
09:39



AFTER

MASS
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AREA
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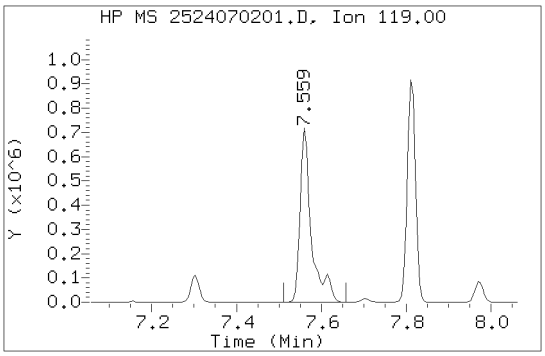
HEIGHT
718848
09-Jul-2024
12:28



BEFORE

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167
AREA
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HEIGHT
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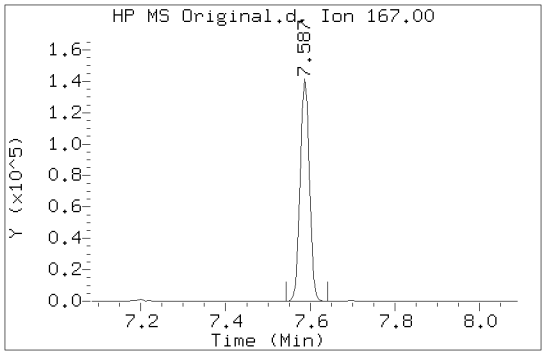
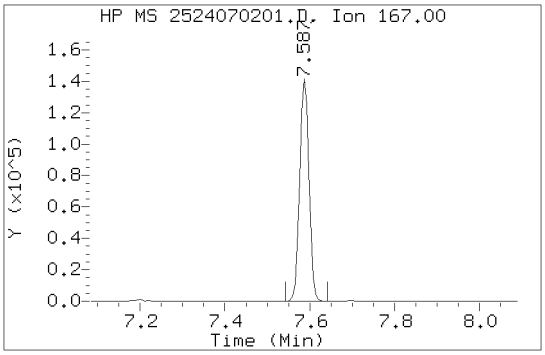
02-Jul-2024
09:39



AFTER

MASS
167
AREA
216323
HEIGHT
141504
09-Jul-2024
12:28



UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:28
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407020
Inj Date: 02-JUL-2024 09:27
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524070202Q.D
Report Date: 09-Jul-2024 12:30

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070202Q.D
Lab Smp Id: 3847312 Client Smp ID: LCS for HBN 1239724
Inj Date : 02-JUL-2024 09:58
Operator : TMP Inst ID: ms25.i
Smp Info : 3847312;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	190139	18.0030	18.0030	
2 Chloromethane	50	1.644	1.644	(0.394)	184176	19.8982	19.8982	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	239016	20.0189	20.0189	
4 Bromomethane	94	1.922	1.922	(0.461)	114681	19.8039	19.8039	
5 Chloroethane	64	1.999	2.004	(0.479)	163663	20.1106	20.1106	
6 Pentane	41	2.091	2.092	(0.502)	140397	18.2085	18.2085	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	304493	18.6188	18.6188	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	319303	21.1008	21.1008	
9 Ethyl Ether	74	2.277	2.277	(0.546)	91384	19.8590	19.8590	
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	201844	21.9815	21.9815	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	410772	20.7374	20.7374	
11 Freon 113	101	2.424	2.424	(0.581)	135860	21.0357	21.0357	
13 Iodomethane	127	2.506	2.506	(0.601)	58058	16.6538	16.6538	
14 Acrolein	56	2.599	2.599	(0.623)	227875	153.853	153.853	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	171599	21.5457	21.5457	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	44912	90.7681	90.7681	
17 Methylene Chloride	84	2.741	2.741	(0.657)	153800	20.5050	20.5050	
18 Acetone	58	2.757	2.752	(0.661)	90738	109.190	109.190	
19 Methyl acetate	74	2.817	2.812	(0.676)	33447	19.3370	19.3370	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	189788	21.1026	21.1026	
21 Hexane	57	2.861	2.866	(0.686)	304699	20.1935	20.1935	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	446819	19.5071	19.5071	

Data File: 2524070202Q.D
Report Date: 09-Jul-2024 12:30

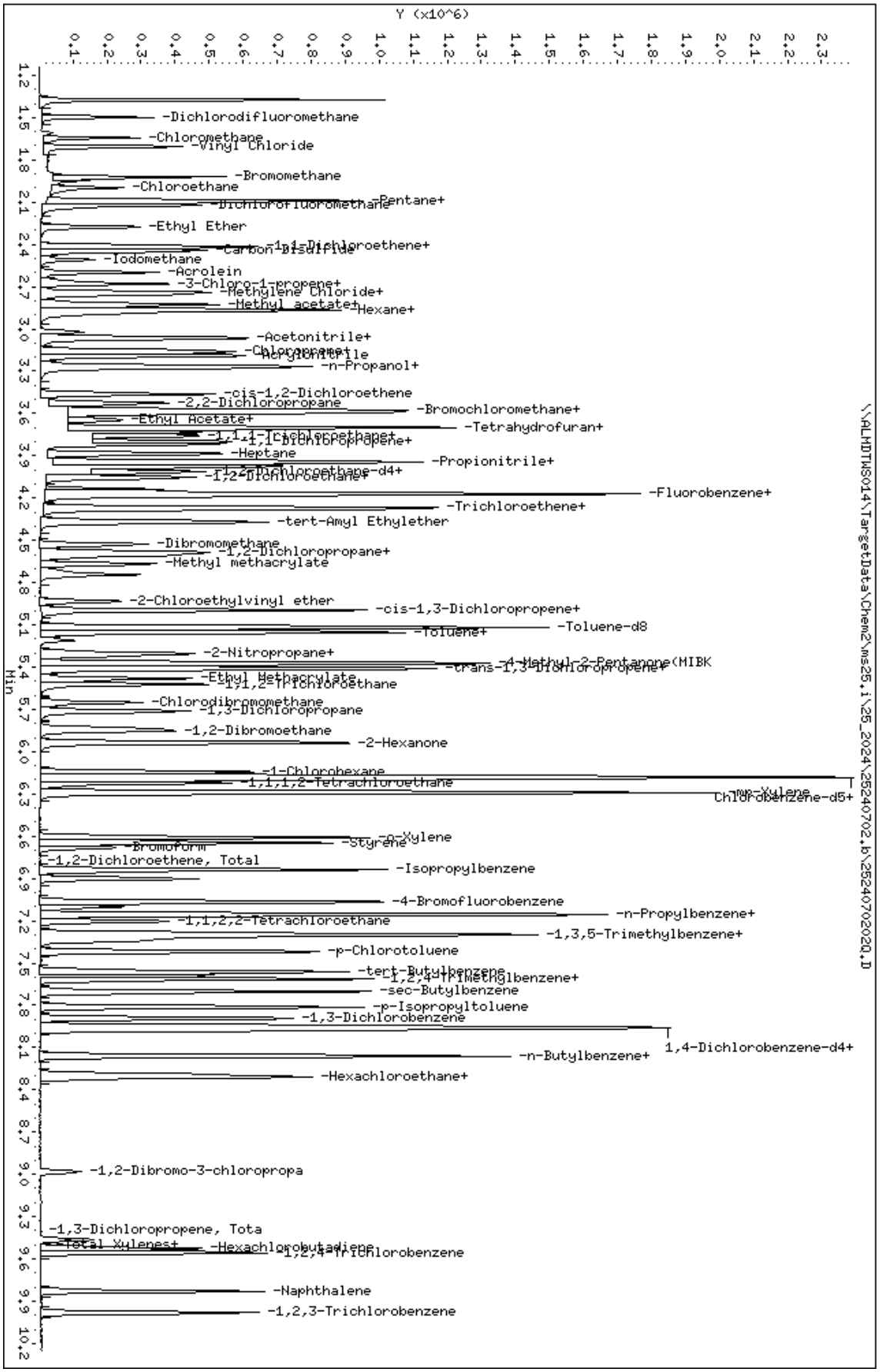
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	2.893	2.894	(0.694)	83002	100.052	100.052	
	24 Acetonitrile	41	3.019	3.019	(0.724)	96713	104.075	104.075	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	438730	21.9804	21.9804	
	26 Chloroprene	53	3.155	3.156	(0.757)	224355	22.1706	22.1706	
	27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	260561	21.2655	21.2655	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	326580	102.342	102.342	
	30 n-Propanol	41	3.265	3.265	(0.783)	81814	208.057	208.057	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	470013	22.1712	22.1712	
	31 Vinyl acetate	86	3.275	3.276	(0.785)	36169	17.5441	17.5441	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	218674	23.9799	23.9799	
	33 2,2-Dichloropropane	77	3.526	3.527	(0.846)	204750	20.9666	20.9666	
M	100 1,2-Dichloroethene, Total	61				408462	45.0825	45.0825	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	86336	21.9544	21.9544	
	35 Cyclohexane	84	3.586	3.587	(0.860)	230222	21.0406	21.0406	
	36 Chloroform	83	3.597	3.598	(0.863)	287080	21.7037	21.7037	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	139619	17.5484	17.5484	
	38 Methyl acrylate	55	3.657	3.652	(0.877)	152317	20.7428	20.7428	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	174117	18.1640	18.1640(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	223546	99.5806	99.5806	
$	41 Dibromofluoromethane	113	3.707	3.701	(0.889)	219077	29.0885	29.0885	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	229790	22.3195	22.3195	
	43 2-Butanone	72	3.761	3.761	(0.902)	110570	101.887	101.887(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	203165	20.8618	20.8618	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	130977	20.9139	20.9139	
	46 Heptane	71	3.887	3.887	(0.932)	123402	21.8104	21.8104	
	48 Propionitrile	54	3.941	3.941	(0.945)	123740	102.402	102.402	
	47 Benzene	78	3.941	3.941	(0.945)	609679	20.3681	20.3681	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	75012	20.7081	20.7081	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	442257	21.6118	21.6118	
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	248992	31.3622	31.3622	
	54 Isobutyl alcohol	42	3.990	3.990	(0.957)	30444	167.887	167.887(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	197694	21.0096	21.0096	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	58186	91.4168	91.4168	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	954510	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	383657	19.8774	19.8774	
	57 Trichloroethene	95	4.269	4.269	(1.024)	156916	20.7131	20.7131	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	249920	20.7512	20.7512	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	335191	18.9547	18.9547	
	60 Dibromomethane	93	4.525	4.525	(1.085)	101587	21.2120	21.2120	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	156736	21.7562	21.7562	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	191700	19.3355	19.3355	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	119995	21.0458	21.0458	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	91453	17.5875	17.5875	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	235103	18.8927	18.8927	
	67 Octane	85	5.000	4.994	(0.810)	98510	21.5723	21.5723	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	859484	29.2377	29.2377	
	69 Toluene	92	5.152	5.153	(0.835)	364931	19.5862	19.5862	
	70 Chloroacetonitrile	75	5.212	5.207	(0.844)	47687	102.669	102.669	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	173156	85.9841	85.9841	
	72 1,1-Dichloro-2-propanone	63	5.311	5.311	(0.860)	17416	89.4242	89.4242(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	738036	100.910	100.910	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	222278	19.2928	19.2928	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	132781	19.5710	19.5710	
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	208628	18.7757	18.7757	

Data File: 2524070202Q.D
Report Date: 09-Jul-2024 12:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	117831	20.5833	20.5833	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	142734	17.8279	17.8279	
	79 1,3-Dichloropropane	76	5.714	5.715	(0.926)	246569	21.7999	21.7999	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	143974	19.0404	19.0404	
	81 2-Hexanone	43	5.933	5.933	(0.961)	501902	100.097	100.097	
	82 1-Chlorohexane	91	6.146	6.140	(0.996)	193685	19.7599	19.7599	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	371295	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	217048	19.4693	19.4693	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	390634	20.5734	20.5734	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	134493	18.9588	18.9588	
	87 mp-Xylene	106	6.287	6.288	(1.019)	509619	38.1756	38.1756	
M	120 1,3-Dichloropropene, Total	75				457381	38.1855	38.1855	
	88 o-Xylene	106	6.609	6.610	(1.071)	242781	19.2141	19.2141	
	89 Styrene	104	6.648	6.648	(0.836)	379067	20.4962	20.4962	
	90 Bromoform	173	6.680	6.680	(0.840)	90380	17.3905	17.3905	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	617431	23.8178	23.8178	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	262740	30.1141	30.1141	
M	121 TOTAL XYLENES	106				752400	57.3897	57.3897	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	170045	22.3016	22.3016	
	93 Bromobenzene	156	7.155	7.155	(0.900)	160894	21.5777	21.5777	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	167543	22.6068	22.6068	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	477048	22.4806	22.4806	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	453253	22.5941	22.5941	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	51739	21.6453	21.6453	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	43736	19.4098	19.4098	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	423567	23.3104	23.3104	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	118676	23.3833	23.3833	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	97614	19.3335	19.3335(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	473780	20.9967	20.9967	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	615504	23.4684	23.4684	
	106 p-Isopropyltoluene	134	7.810	7.810	(0.982)	138039	22.9836	22.9836	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	276088	21.9779	21.9779	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	315376	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	280576	21.4277	21.4277	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	122338	21.7969	21.7969	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	54431	17.6498	17.6498(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	79441	17.9033	17.9033	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	264035	22.0652	22.0652	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	24876	17.8199	17.8199	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	65925	154.894	154.894	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	81816	20.8144	20.8144	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	179989	22.7133	22.7133	
	118 Naphthalene	128	9.829	9.829	(1.236)	427488	18.5555	18.5555	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	162052	18.3863	18.3863	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
-Bromoform
-Styrene
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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Date : 02-JUL-2024 09:58
Client ID: LCS for HBN 1239724
Sample Info: 384731z;;13;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070202Q.D
Inj Date : 02-JUL-2024 09:58
InstruID : ms25.i
LabSampID : 3847312

2-Butanone (78-93-3)

Reason Code: MP

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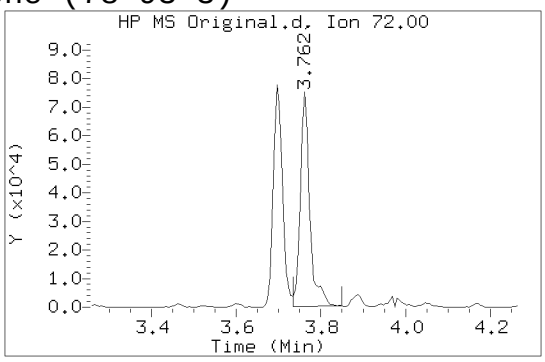
75090
02-Jul-2024
10:23



AFTER
MASS
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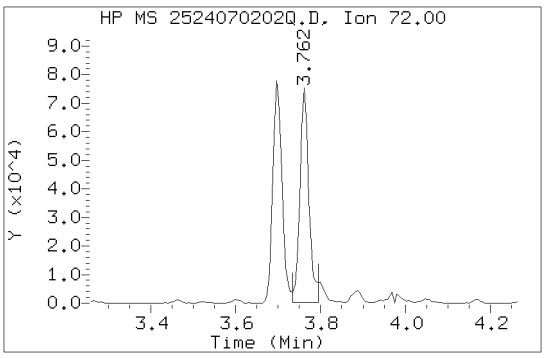
09-Jul-2024
12:30



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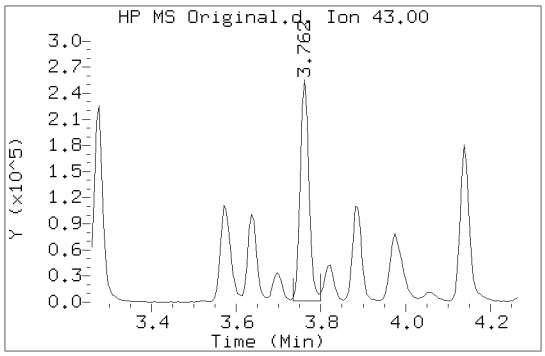
02-Jul-2024
10:23



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09-Jul-2024
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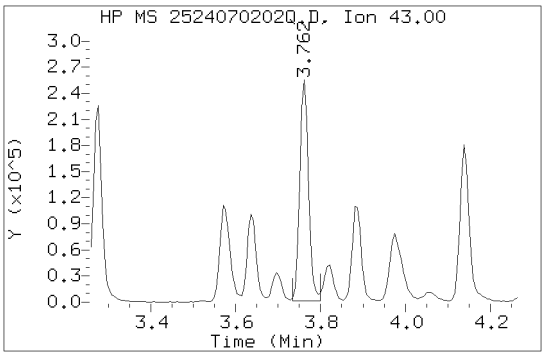

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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02-Jul-2024
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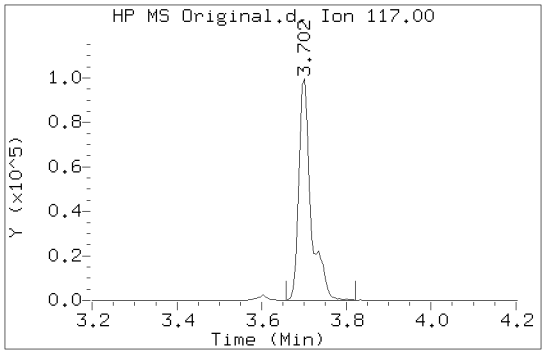

AFTER
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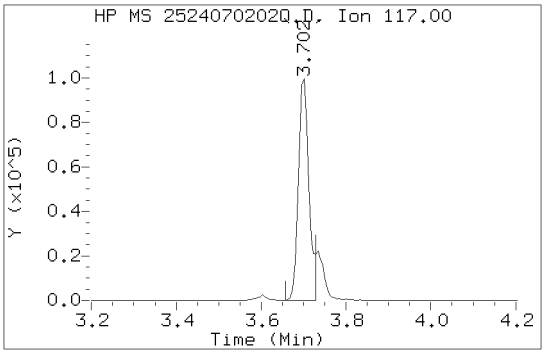
12:30



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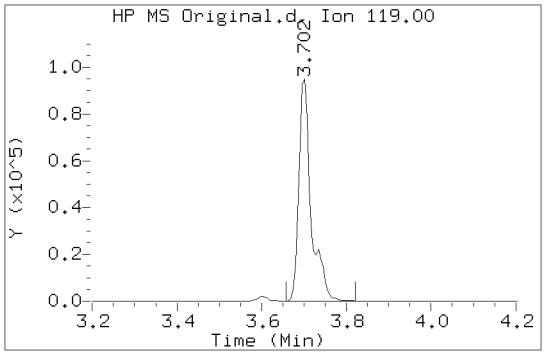
02-Jul-2024
10:23



AFTER
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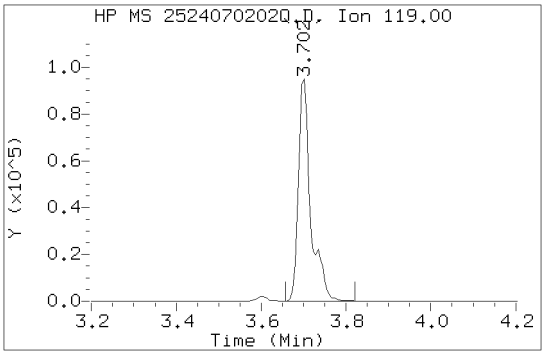
12:30



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Inj Date : 02-JUL-2024 09:58
InstruID : ms25.i
LabSampID : 3847312

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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HEIGHT
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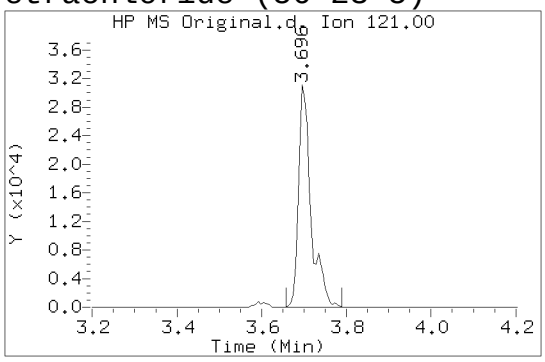
02-Jul-2024
10:23



AFTER

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HEIGHT
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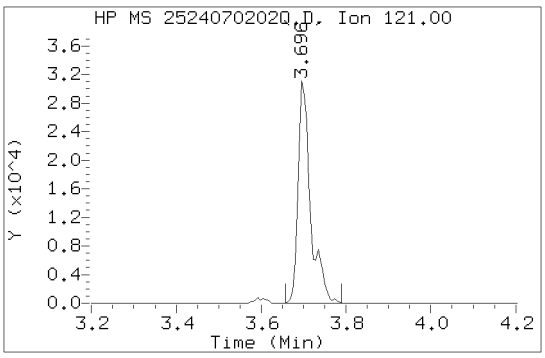
09-Jul-2024
12:30



Isobutyl alcohol (78-83-1)

Reason Code: MP

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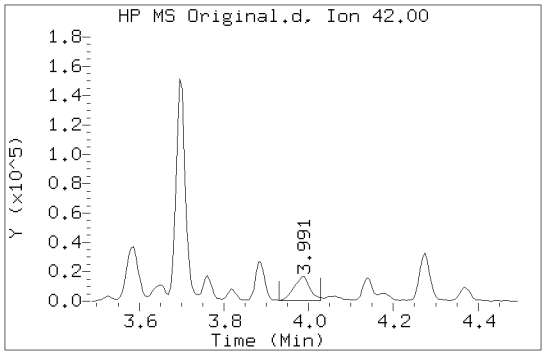
02-Jul-2024
10:23



AFTER

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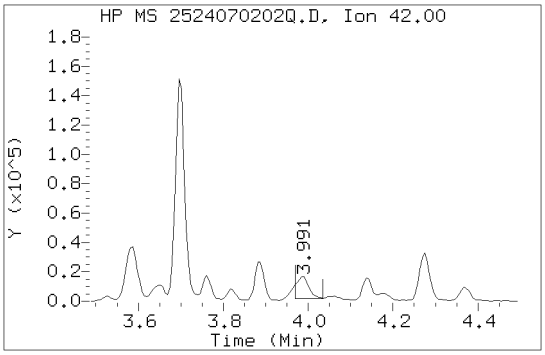

BEFORE

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HEIGHT
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02-Jul-2024
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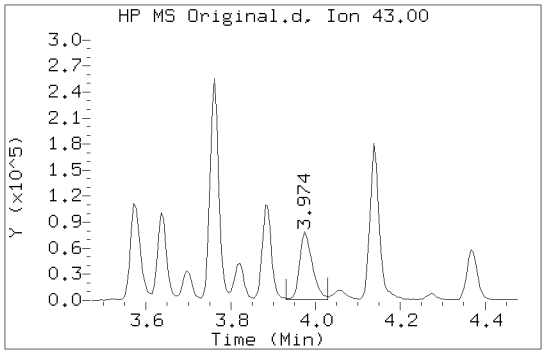

AFTER

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HEIGHT
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09-Jul-2024
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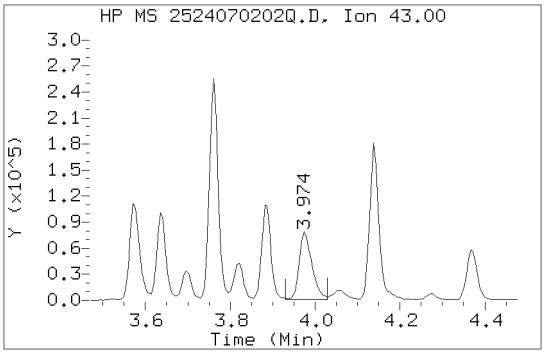

BEFORE

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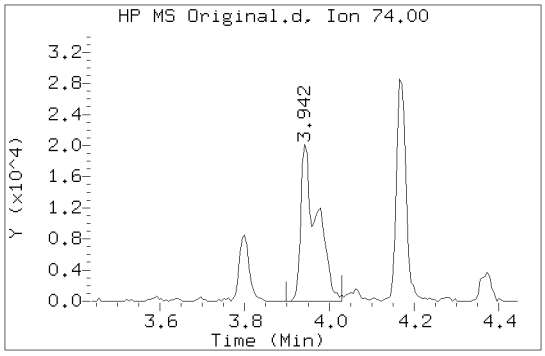

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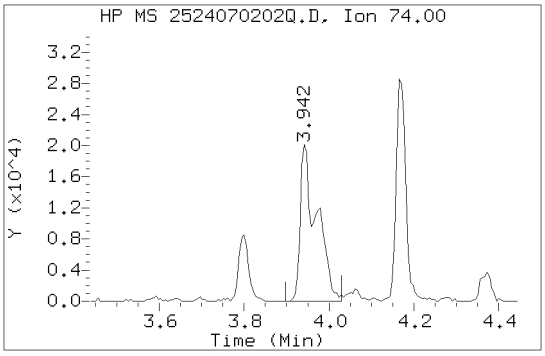

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Inj Date : 02-JUL-2024 09:58
InstruID : ms25.i
LabSampID : 3847312

Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE

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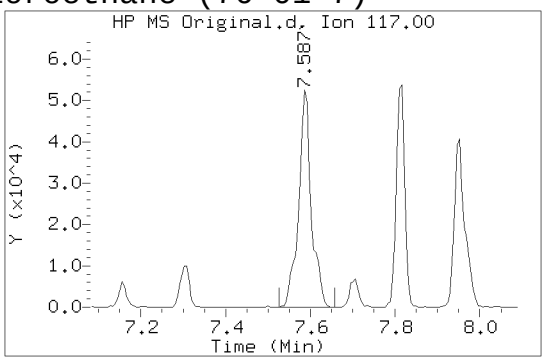
02-Jul-2024
10:23



AFTER

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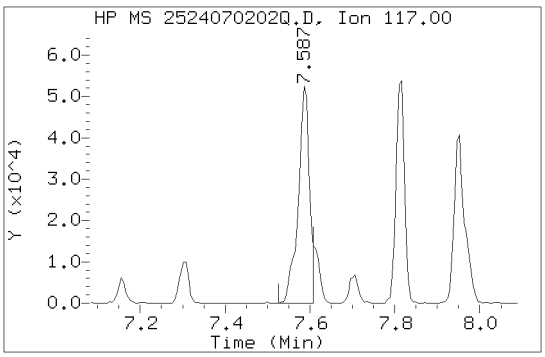

BEFORE

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AREA
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HEIGHT
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02-Jul-2024
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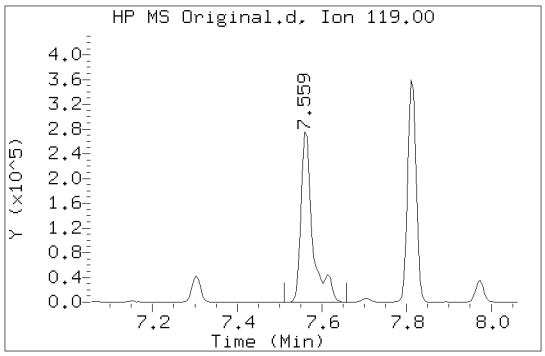

AFTER

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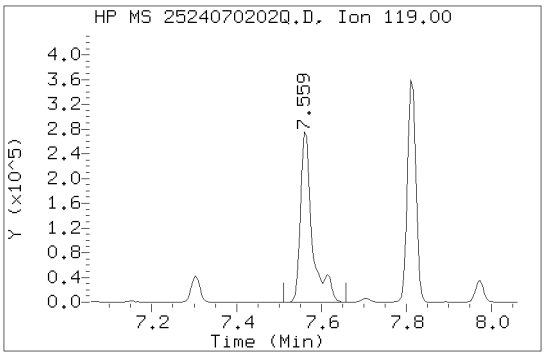
09-Jul-2024
12:30



BEFORE

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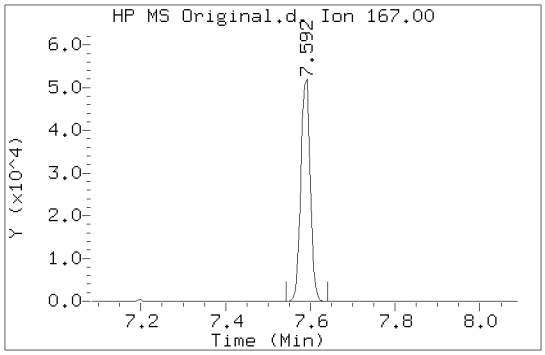
02-Jul-2024
10:23



AFTER

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AREA
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HEIGHT
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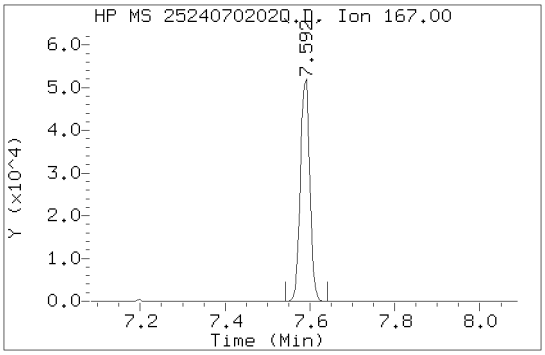
09-Jul-2024
12:30



UNASSIGNED PEAK REPORT

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DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407020
Inj Date: 02-JUL-2024 09:58
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524070205Q.D Page 1
Report Date: 09-Jul-2024 12:31

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070205Q.D
Lab Smp Id: 3847311 Client Smp ID: MB for HBN 1239724
Inj Date : 02-JUL-2024 11:20
Operator : TMP Inst ID: ms25.i
Smp Info : 3847311;;1;3;;MB;;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070205Q.D Page 2
Report Date: 09-Jul-2024 12:31

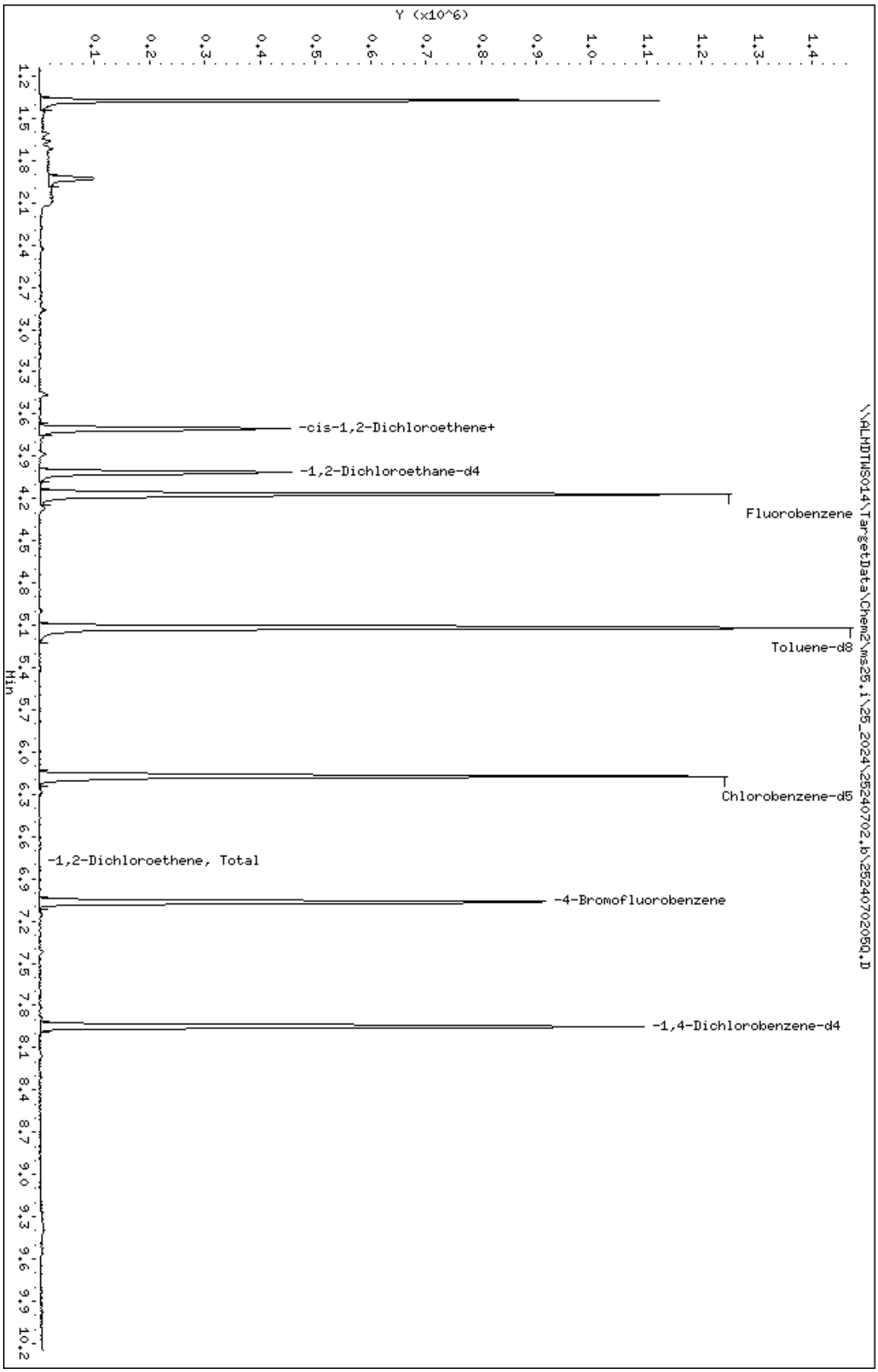
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	5979	0.68678	0.686781(a)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				5979	0.68678	0.686781(a)	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.701	(0.889)	207215	28.8194	28.8194	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	255129	33.6605	33.6605	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	911258	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	842314	31.3438	31.3438	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070205Q.D Page 3
Report Date: 09-Jul-2024 12:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	339427	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	233458	31.1791	31.1791	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	270656	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



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Date : 02-JUL-2024 11:20
Client ID: MB for HBN 1239724
Sample Info: 384731;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070205Q.D
Inj Date : 02-JUL-2024 11:20
InstruID : ms25.i
LabSampID : 3847311

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:31
Client ID: MB for HBN 1239724
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407020
Inj Date: 02-JUL-2024 11:20
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1-Chlorobutane
3-Chloro-1-propene
Ethyl methacrylate
2-Nitropropane
Chloroethane
1-Chlorohexane
1,2-Dichloroethane
Heptane
Trichloroethene

Data File: 2524070206.D Page 1
Report Date: 09-Jul-2024 12:35

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070206.D
Lab Smp Id: 3366026013 Client Smp ID: ICT13B_062024
Inj Date : 02-JUL-2024 11:50
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026013;;1;;;;;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	3525	0.31529	0.315285(aQ)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070206.D
Report Date: 09-Jul-2024 12:35

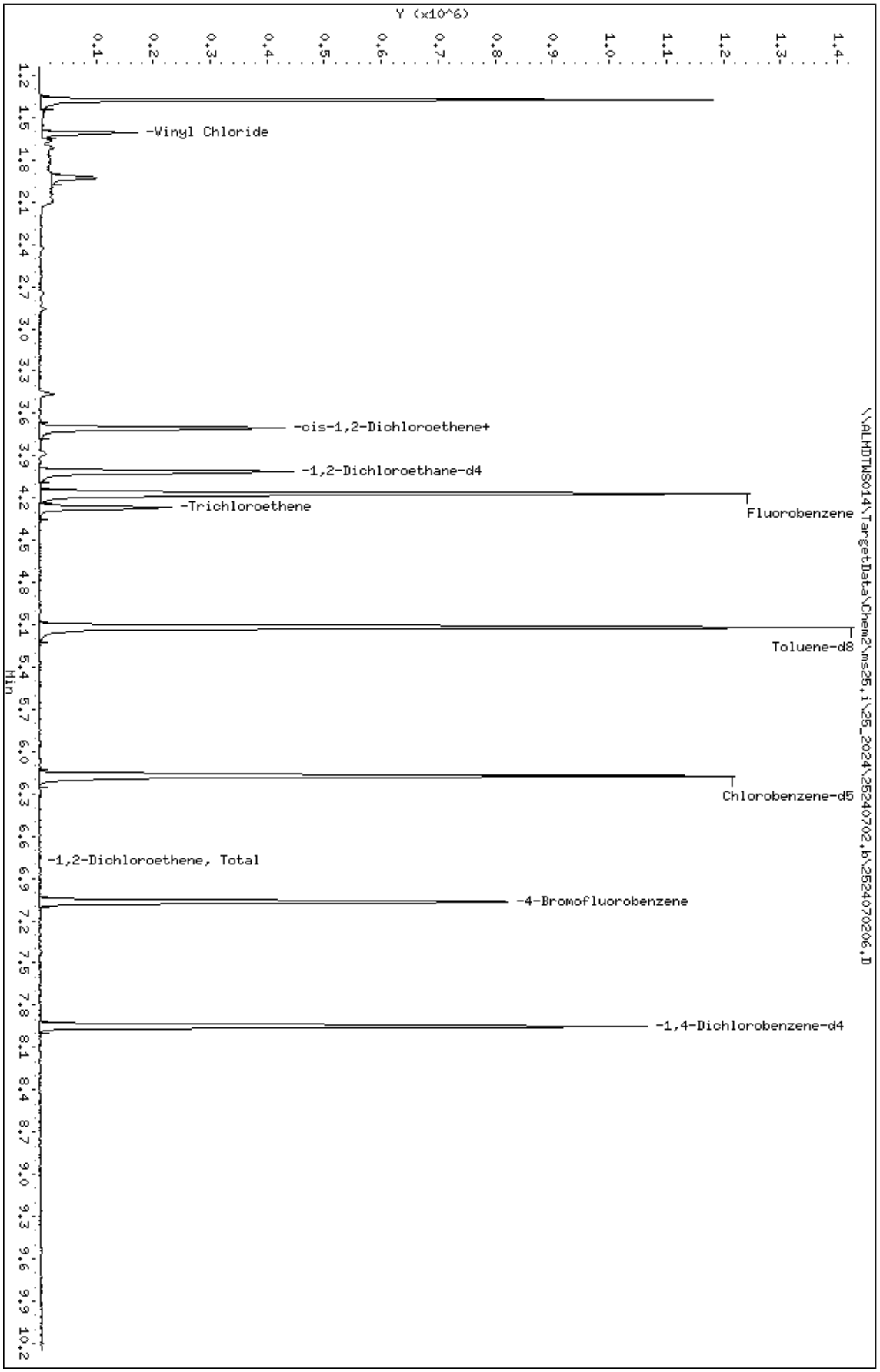
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	10821	1.26721	1.26721	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				10821	1.26721	1.26721(a)	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.701	3.701	(0.887)	206484	29.2780	29.2780	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	244017	32.8225	32.8225	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	893820	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	59389	8.37173	8.37173	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	810136	31.2411	31.2411	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070206.D Page 3
Report Date: 09-Jul-2024 12:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	327534	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	207008	29.6663	29.6663	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	252230	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



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Client ID: ICT13B_062024
Sample Info: 336026013;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070206.D Page 2

Date : 02-JUL-2024 11:50

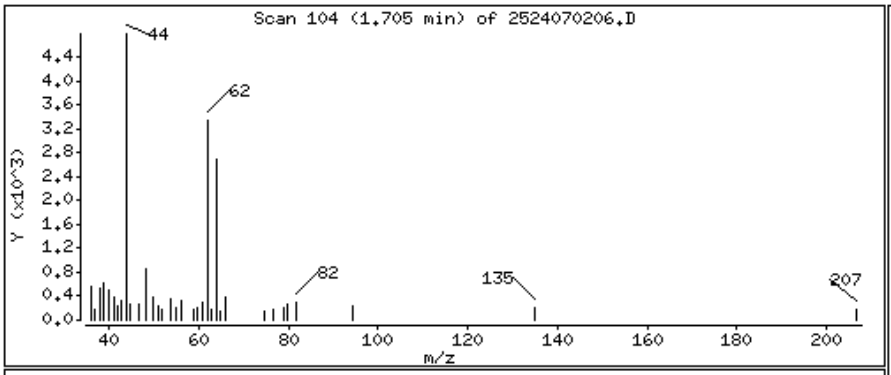
Client ID: ICT13B_062024 Instrument: ms25.i

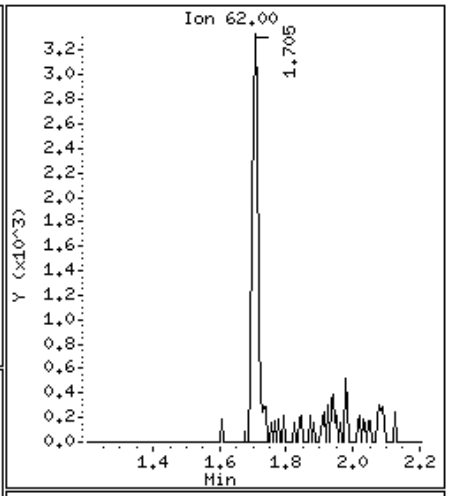
Sample Info: 3366026013;;1;;;;;

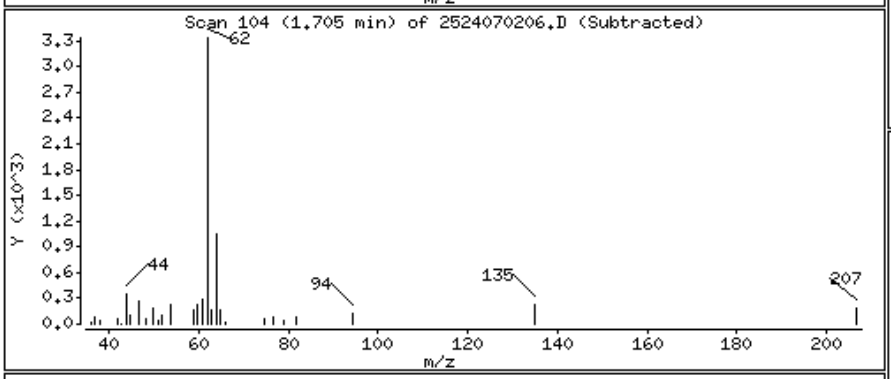
Purge Volume: 5.0 Operator: TMP

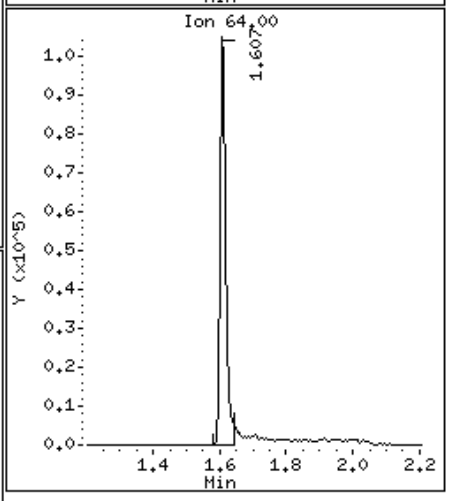
Column phase: DB-VRX Column diameter: 0.25

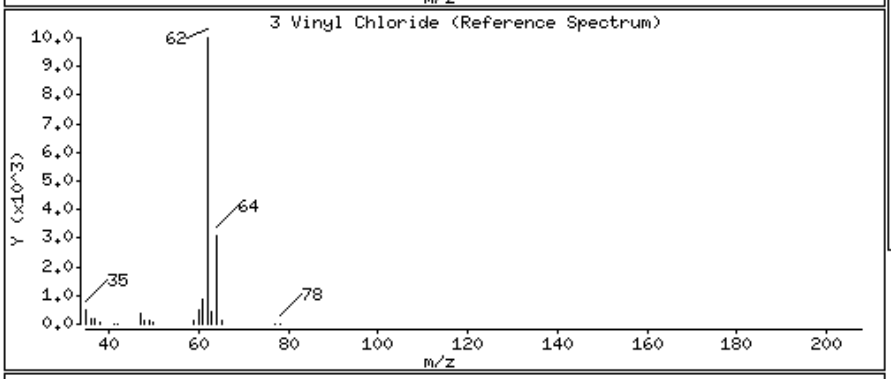
3 Vinyl Chloride Concentration: 0.315285 ug/L

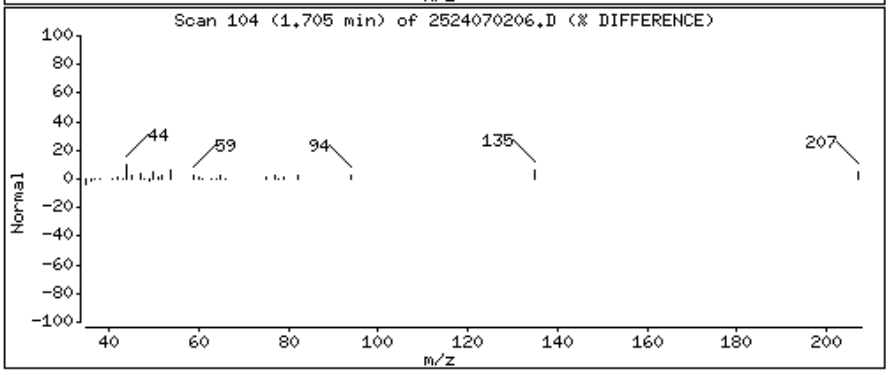












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070206.D Page 3

Date : 02-JUL-2024 11:50

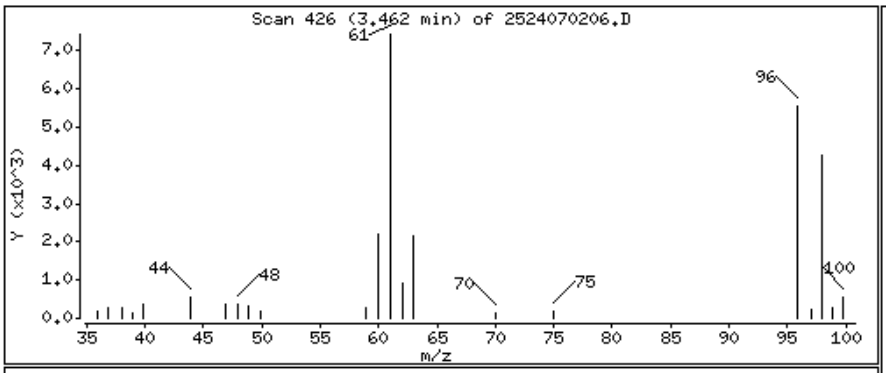
Client ID: ICT13B_062024 Instrument: ms25.i

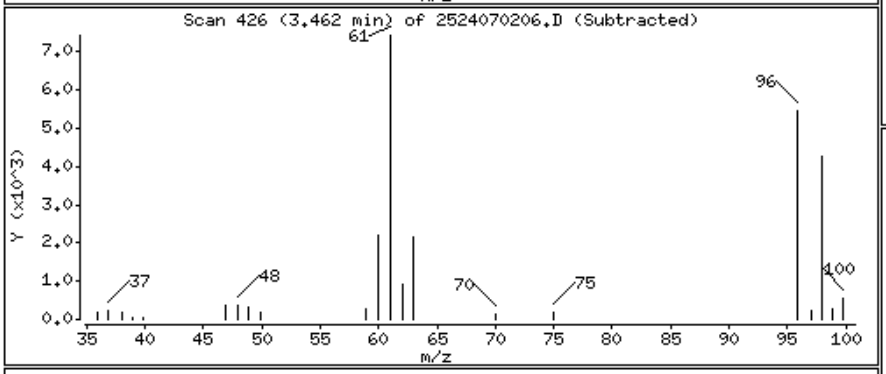
Sample Info: 3366026013;;1;;;;;

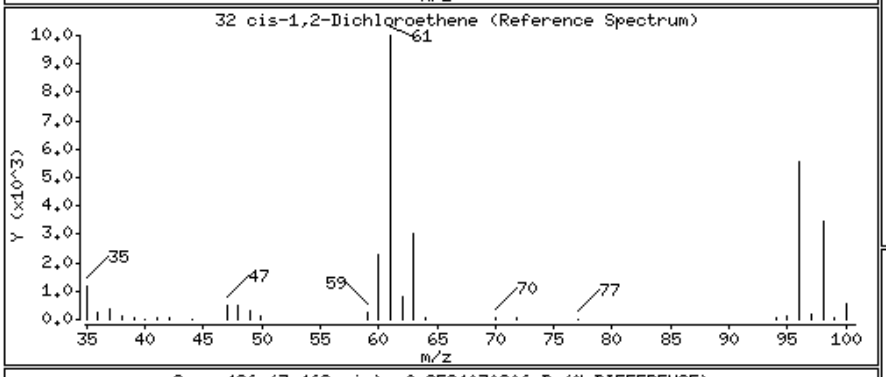
Purge Volume: 5.0 Operator: TMP

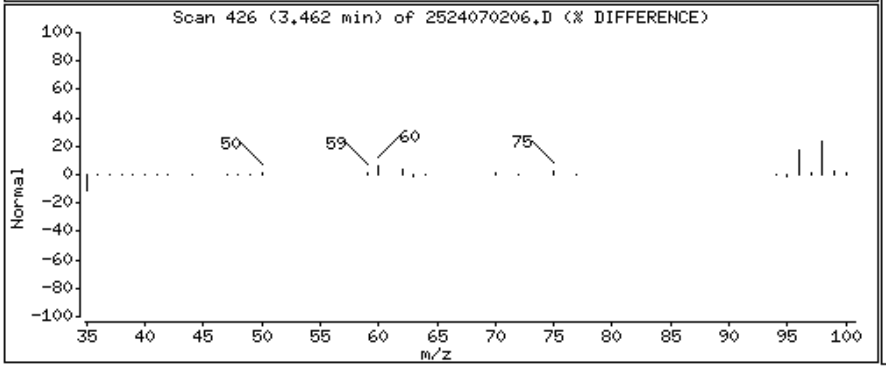
Column phase: DB-VRX Column diameter: 0.25

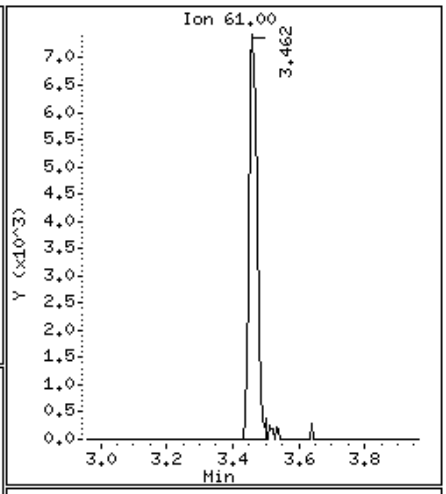
32 cis-1,2-Dichloroethene Concentration: 1.26721 ug/L

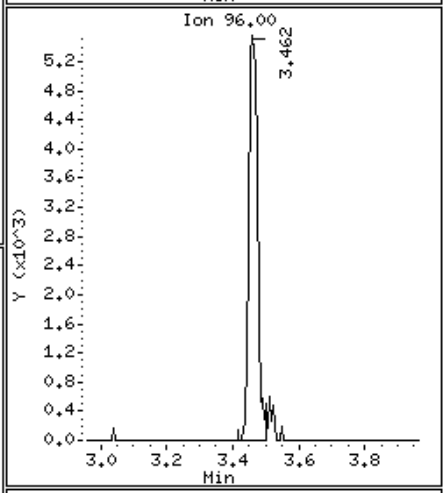


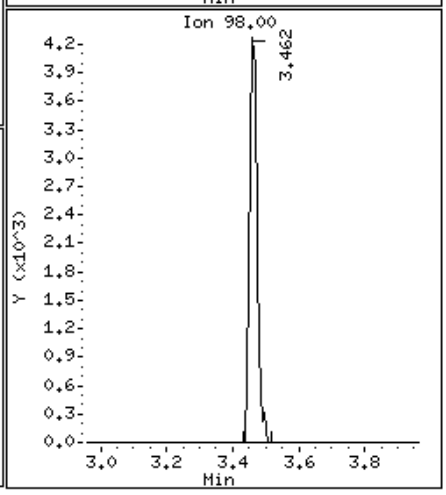












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070206.D Page 4

Date : 02-JUL-2024 11:50

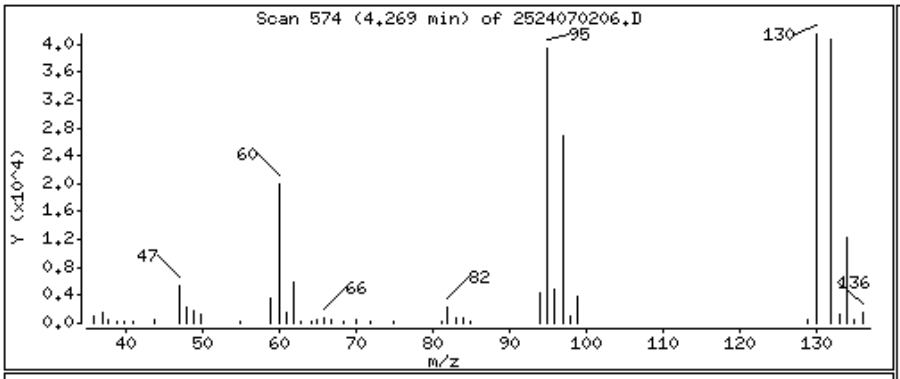
Client ID: ICT13B_062024 Instrument: ms25.i

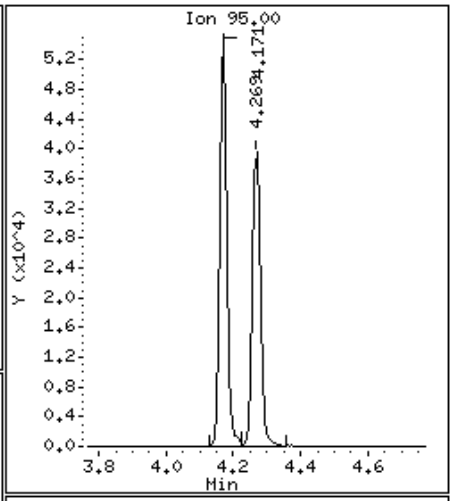
Sample Info: 3366026013;;1;;;;;

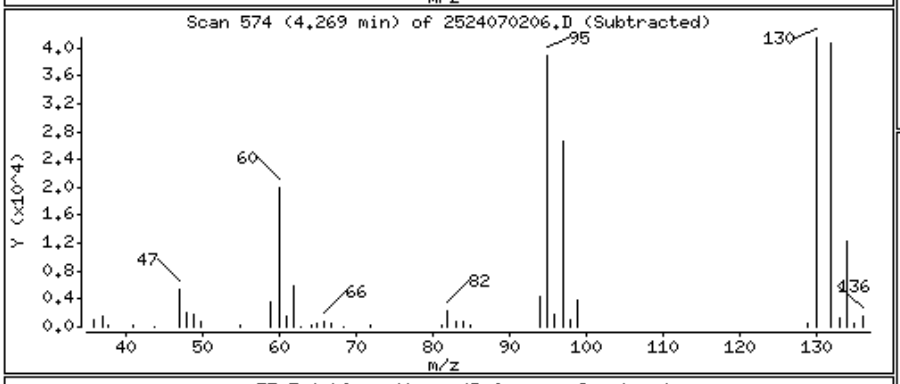
Purge Volume: 5.0 Operator: TMP

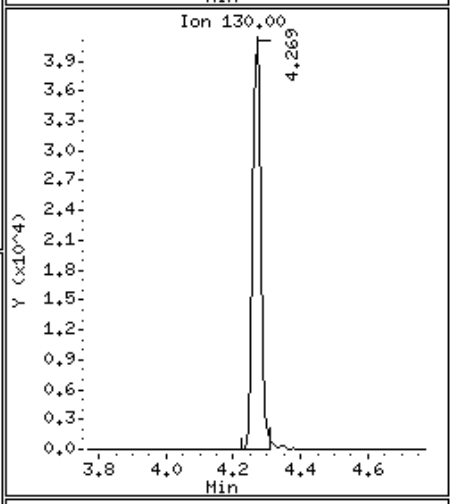
Column phase: DB-VRX Column diameter: 0.25

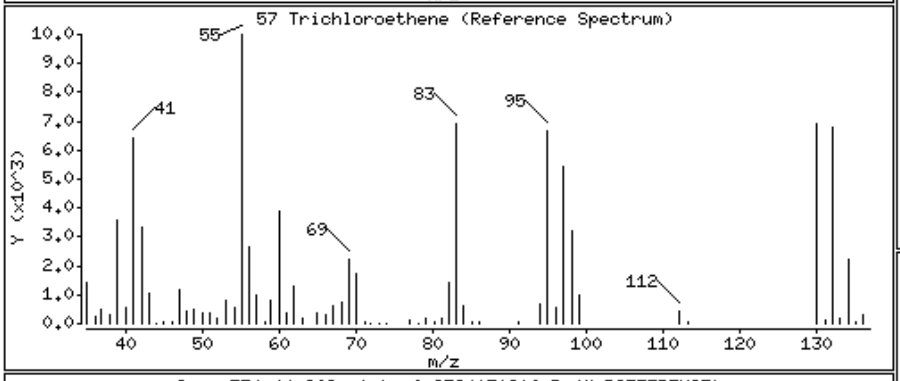
57 Trichloroethene Concentration: 8.37173 ug/L

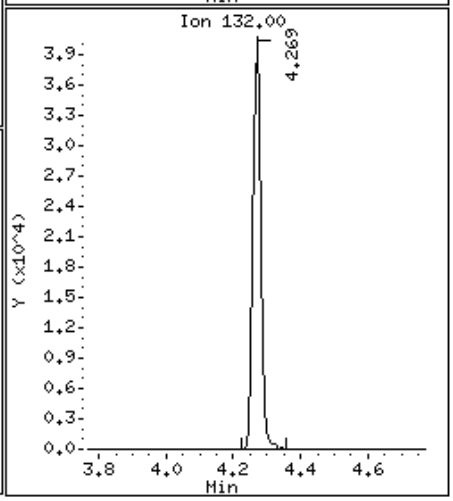


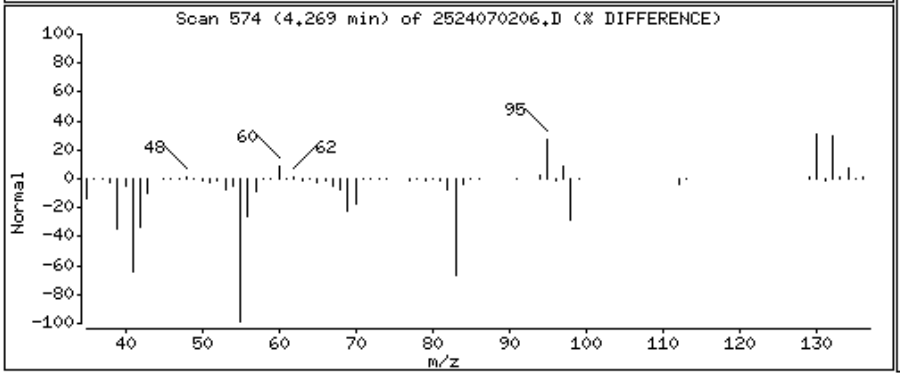












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Inj Date : 02-JUL-2024 11:50
InstruID : ms25.i
LabSampID : 3366026013

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:35
Client ID: ICT13B_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407020
Inj Date: 02-JUL-2024 11:50
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	tert-Amyl Alcohol
Chloroethane	1-Chlorobutane
1-Chlorohexane	1,2-Dichloroethane
Ethyl methacrylate	Heptane
Methacrylonitrile	2-Nitropropane

Data File: 2524070208.D Page 1
Report Date: 09-Jul-2024 12:37

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D
Lab Smp Id: 3366026011 Client Smp ID: ICT12E_062024
Inj Date : 02-JUL-2024 12:31
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026011;;1;;;;;100
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 8
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	17933	1.60836	160.836	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	29115	3.39527	339.527	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	60068	9.95920	995.920	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.741	2.741	(0.657)	14359	2.04995	204.995	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.833	2.828	(0.679)	2505	0.29826	29.8256(a)	
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070208.D Page 2
Report Date: 09-Jul-2024 12:37

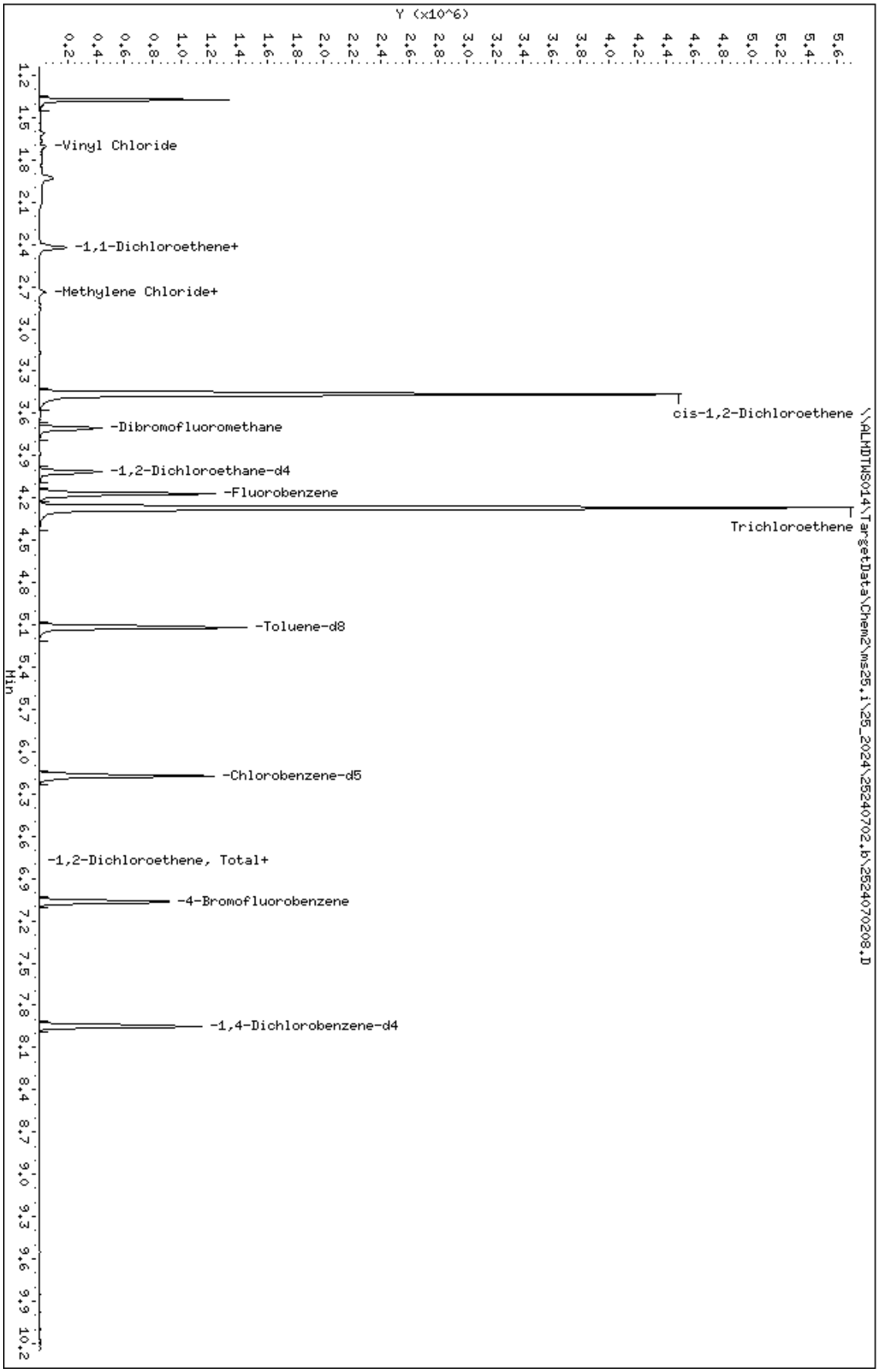
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	1959671	230.117	23011.7(A)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				1962176	230.415	23041.5	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.701	(0.889)	206174	29.3139	2931.39	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	240203	32.3978	3239.78	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	891385	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	1462472	206.719	20671.9(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	816120	30.6498	3064.98	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070208.D Page 3
Report Date: 09-Jul-2024 12:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	336319	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	6.648	6.648	(0.836)	1468	0.38369	38.3687(a)	
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	232676	30.6498	3064.98	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	274408	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



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Client ID: ICT12E_062024
Sample Info: 336602601;;1;;;;;;100
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D

Date : 02-JUL-2024 12:31

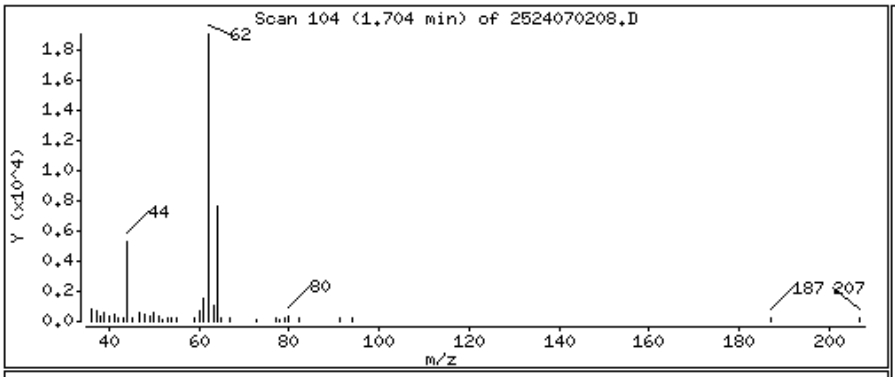
Client ID: ICT12E_062024 Instrument: ms25.i

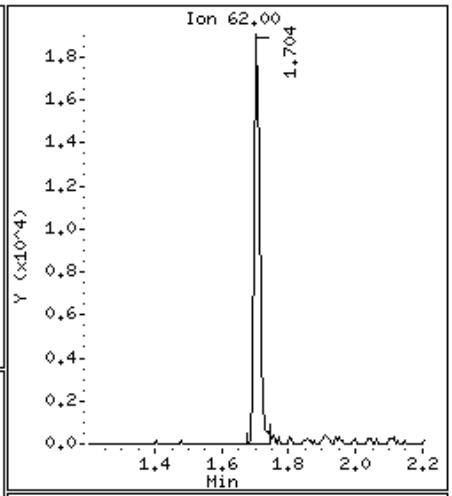
Sample Info: 3366026011;;1;;;;;100

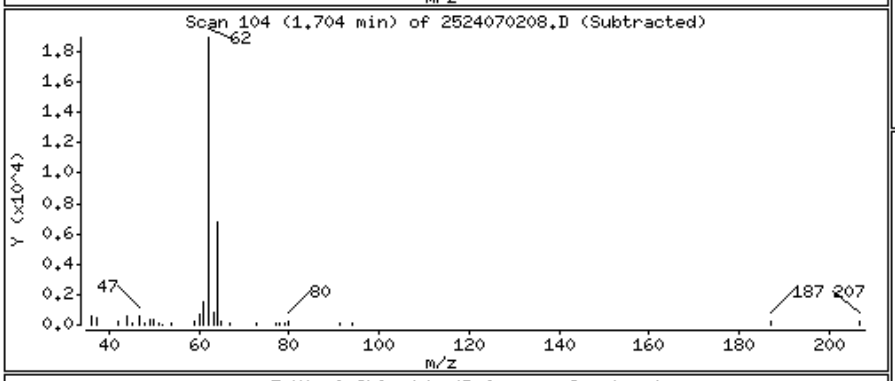
Purge Volume: 5.0 Operator: TMP

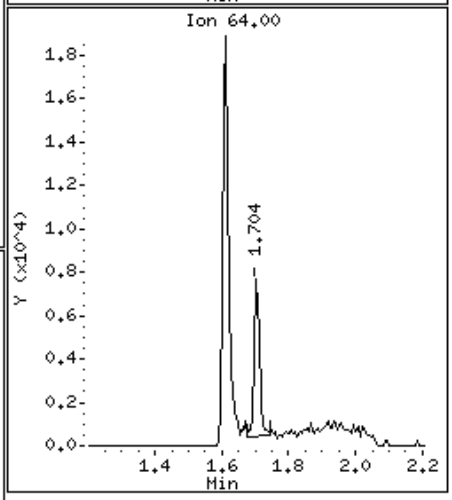
Column phase: DB-VRX Column diameter: 0.25

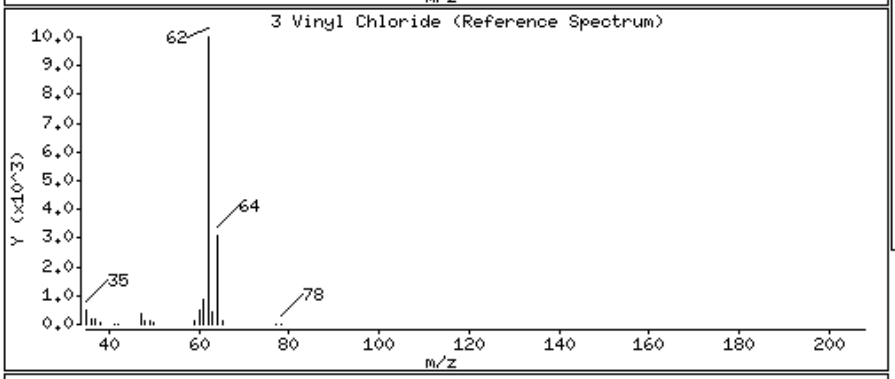
3 Vinyl Chloride Concentration: 160.836 ug/L

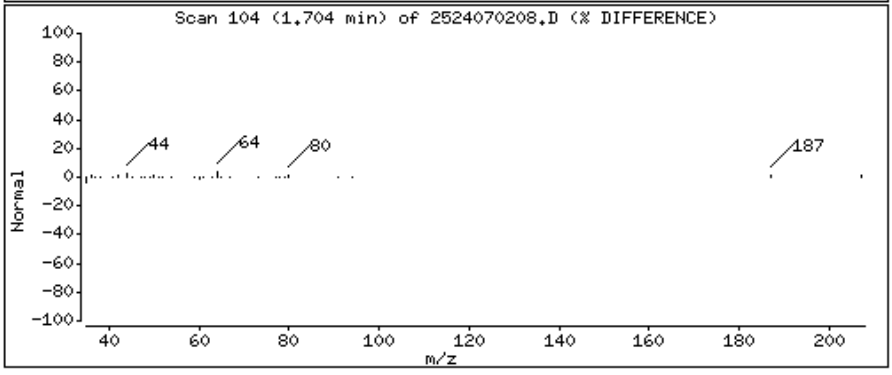












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D Page 3

Date : 02-JUL-2024 12:31

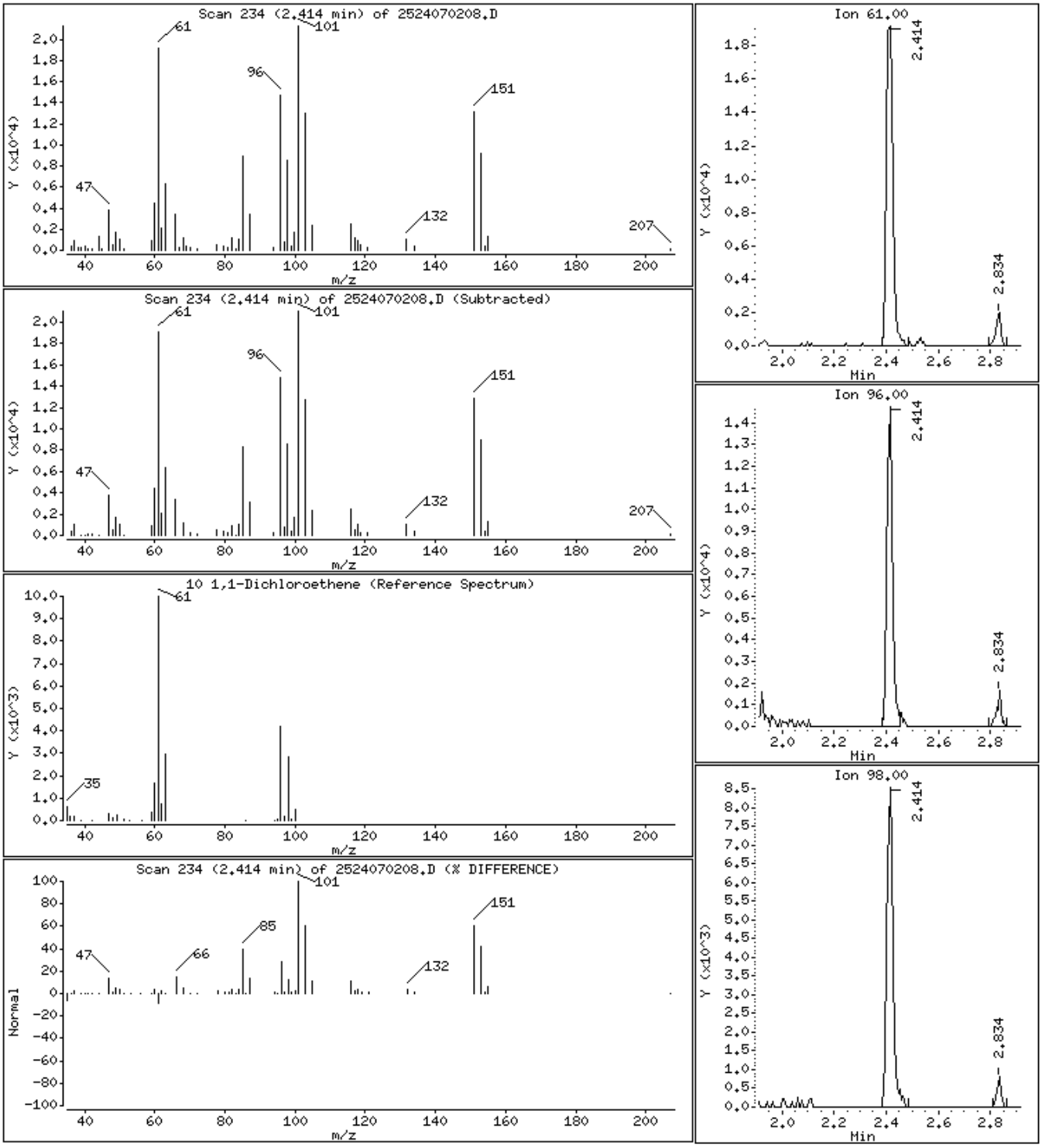
Client ID: ICT12E_062024 Instrument: ms25.i

Sample Info: 3366026011;;1;;;;;100

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

10 1,1-Dichloroethene Concentration: 339.527 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D Page 4

Date : 02-JUL-2024 12:31

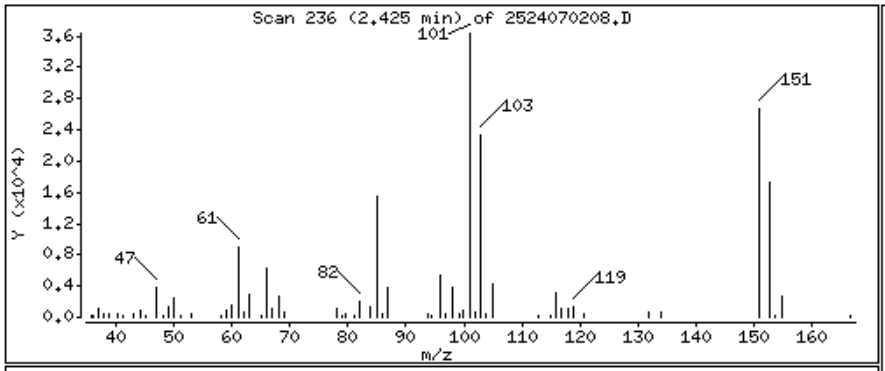
Client ID: ICT12E_062024 Instrument: ms25.i

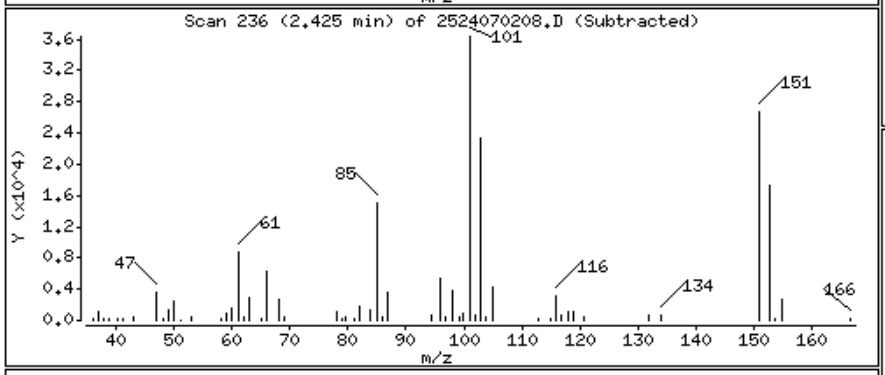
Sample Info: 3366026011;;1;;;;;100

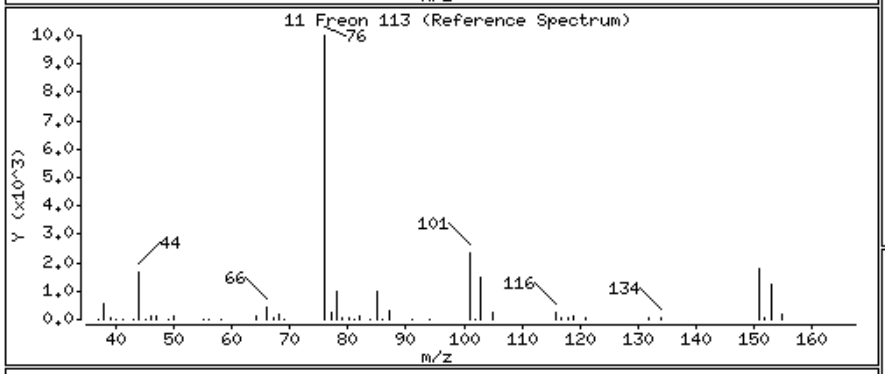
Purge Volume: 5.0 Operator: TMP

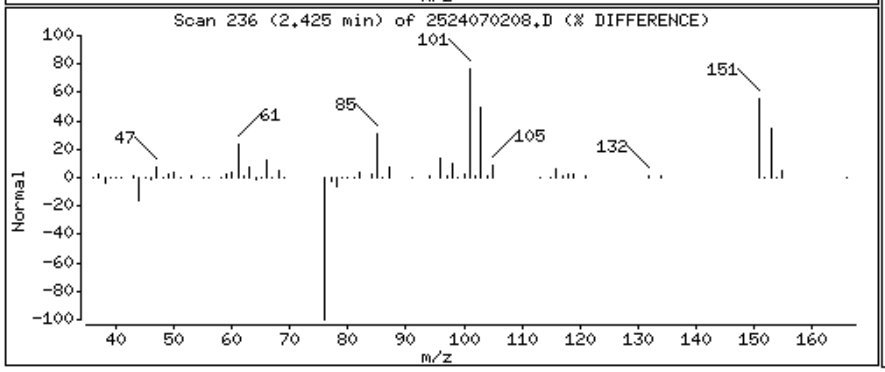
Column phase: DB-VRX Column diameter: 0.25

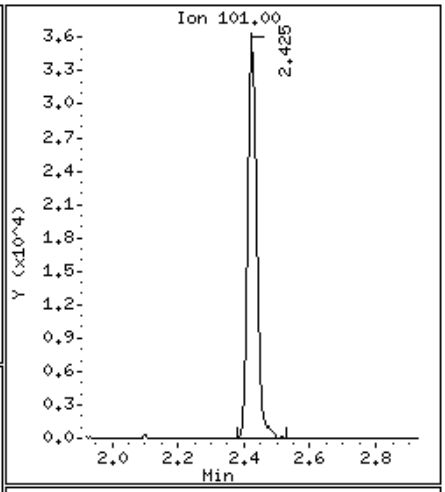
11 Freon 113 Concentration: 995.920 ug/L

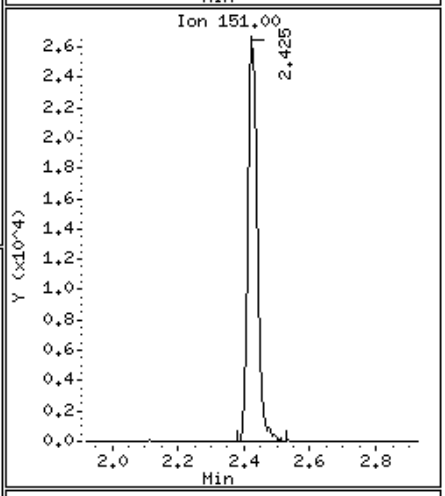


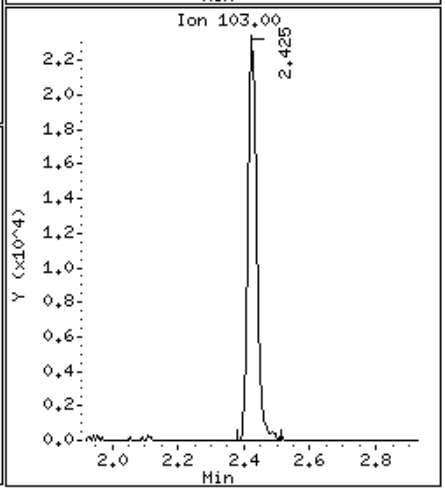












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D Page 5

Date : 02-JUL-2024 12:31

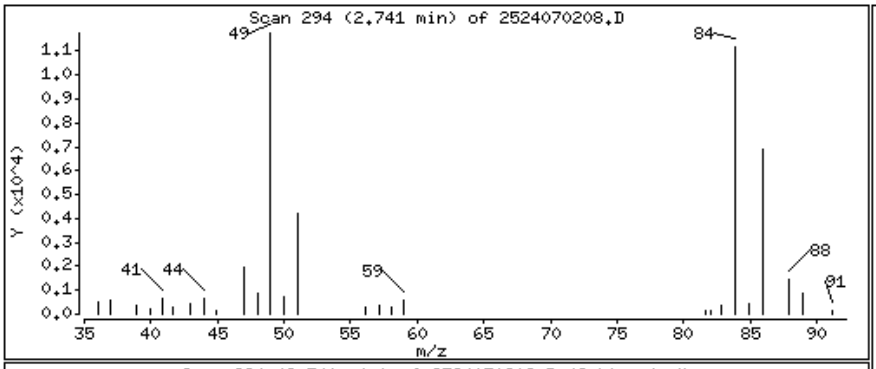
Client ID: ICT12E_062024 Instrument: ms25.i

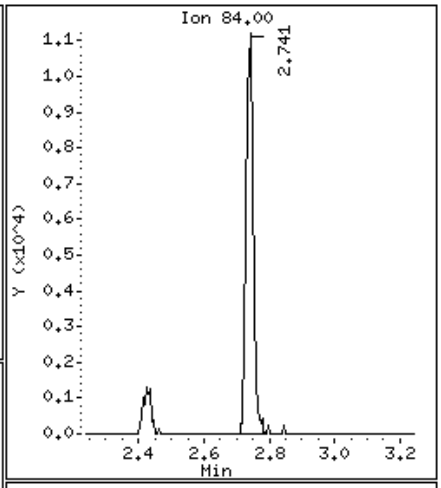
Sample Info: 3366026011;;1;;;;;100

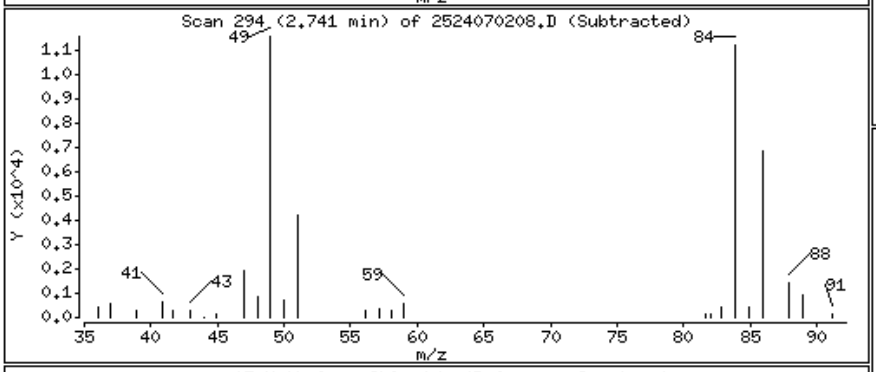
Purge Volume: 5.0 Operator: TMP

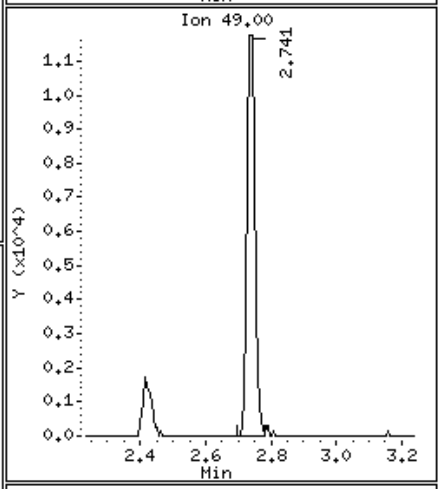
Column phase: DB-VRX Column diameter: 0.25

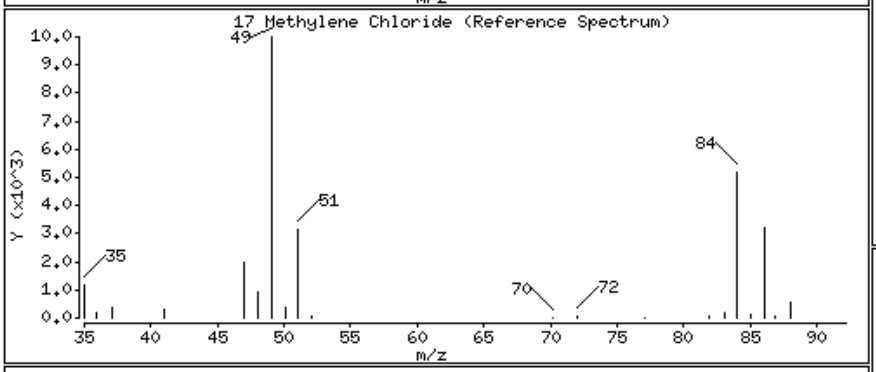
17 Methylene Chloride Concentration: 204.995 ug/L

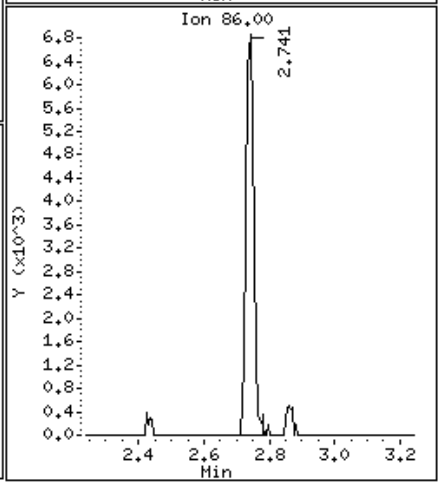


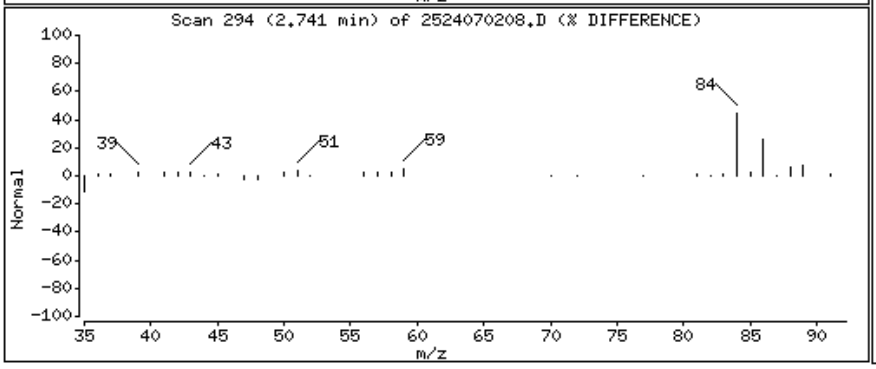












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D Page 6

Date : 02-JUL-2024 12:31

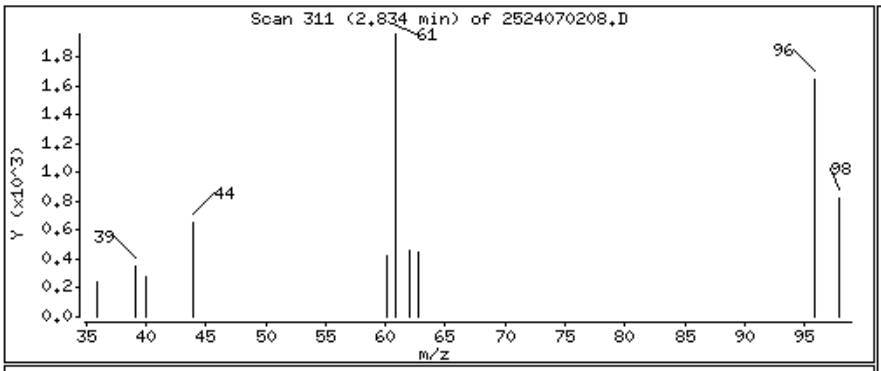
Client ID: ICT12E_062024 Instrument: ms25.i

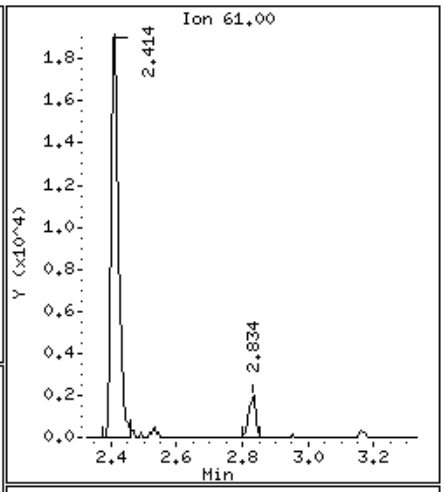
Sample Info: 3366026011;;1;;;;;100

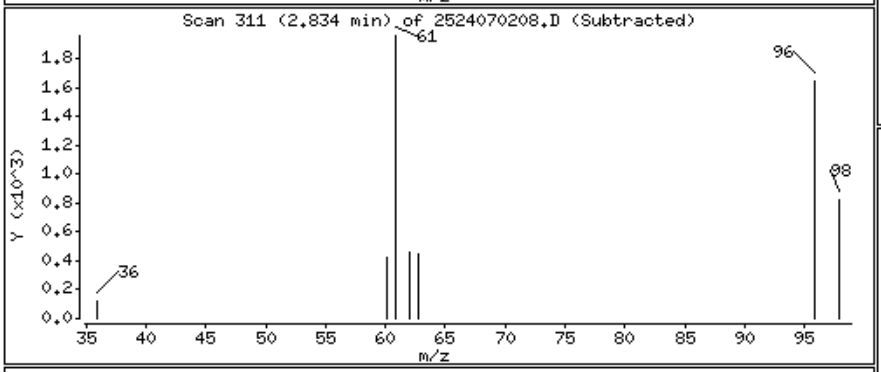
Purge Volume: 5.0 Operator: TMP

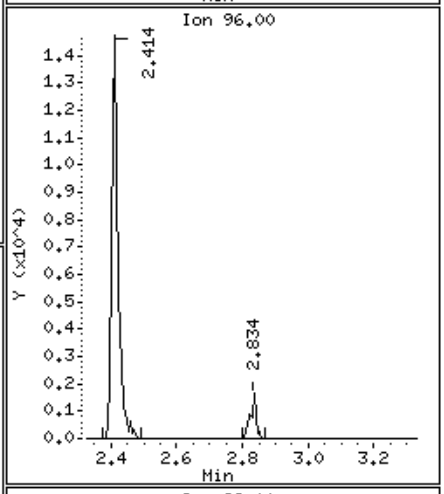
Column phase: DB-VRX Column diameter: 0.25

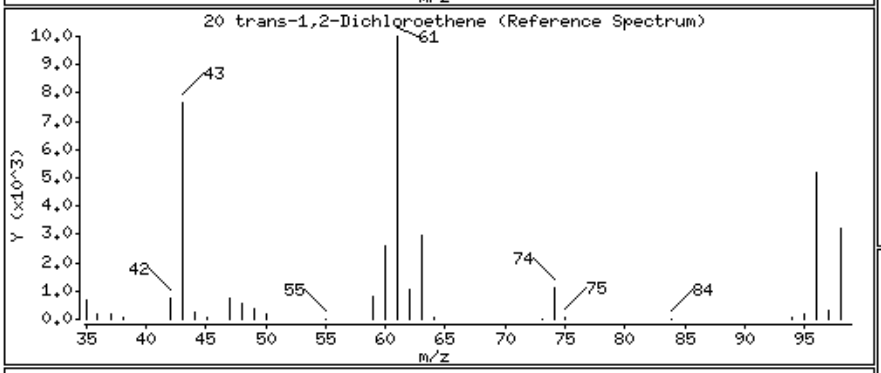
20 trans-1,2-Dichloroethene Concentration: 29.8256 ug/L

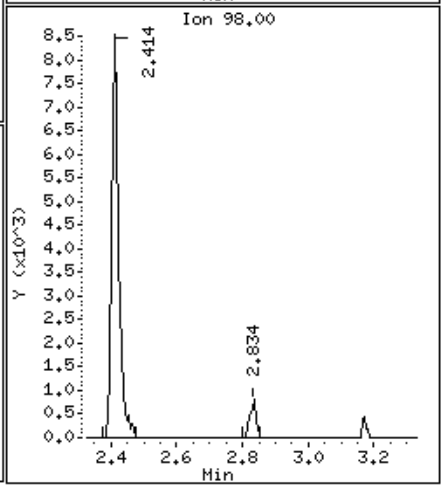


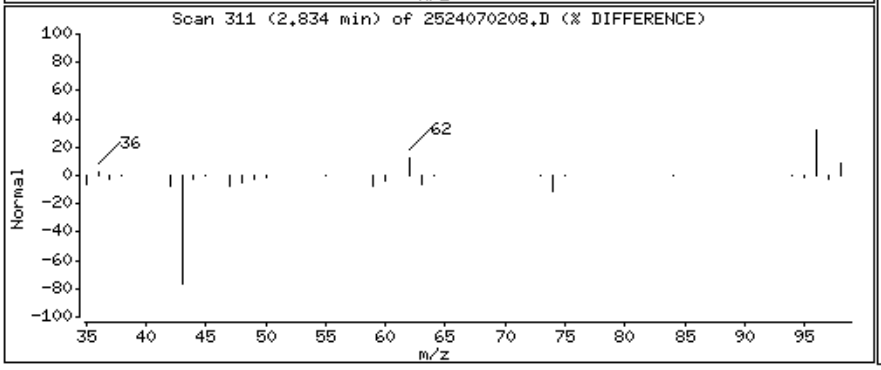












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D Page 7

Date : 02-JUL-2024 12:31

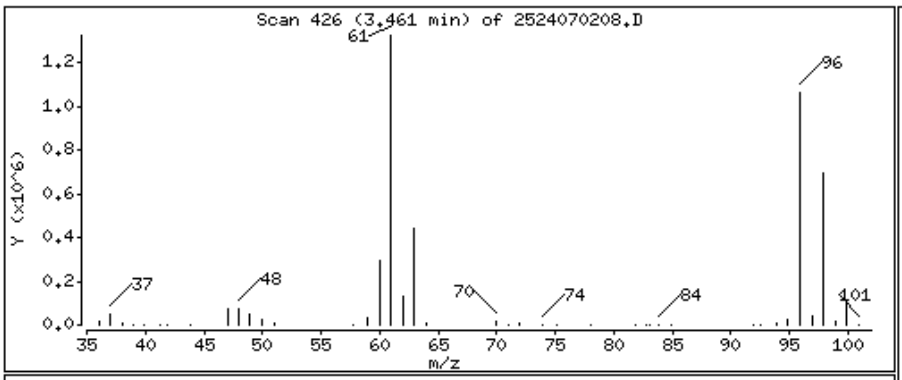
Client ID: ICT12E_062024 Instrument: ms25.i

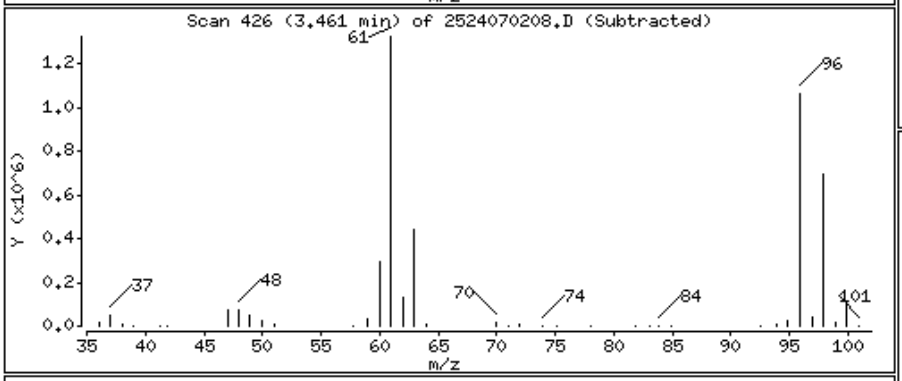
Sample Info: 3366026011;;1;;;;;100

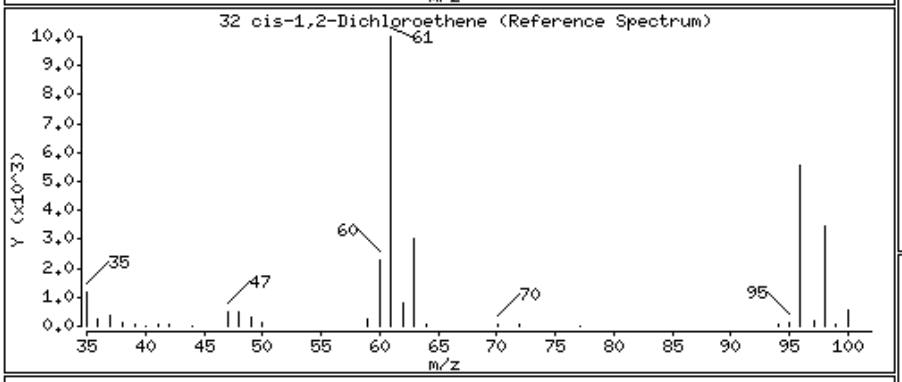
Purge Volume: 5.0 Operator: TMP

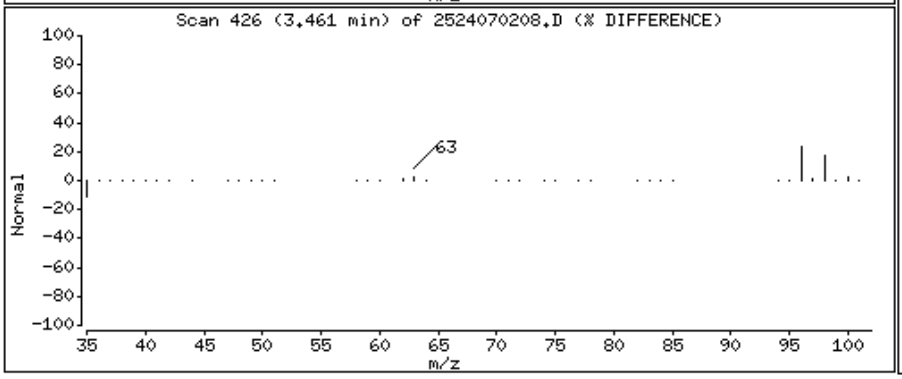
Column phase: DB-VRX Column diameter: 0.25

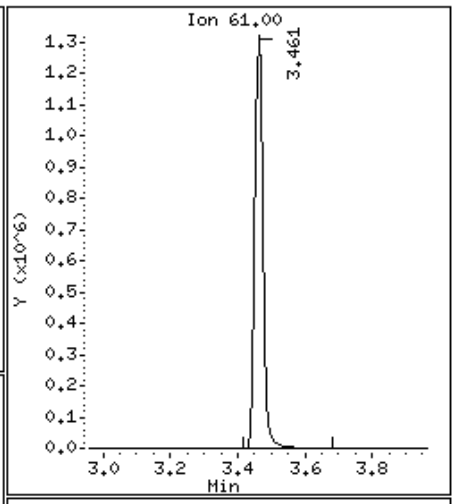
32 cis-1,2-Dichloroethene Concentration: 23011.7 ug/L

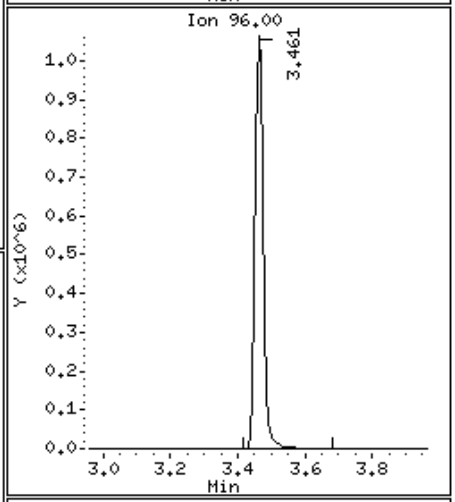


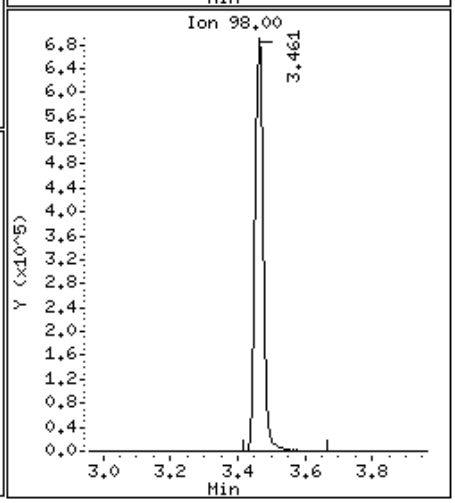












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D Page 8

Date : 02-JUL-2024 12:31

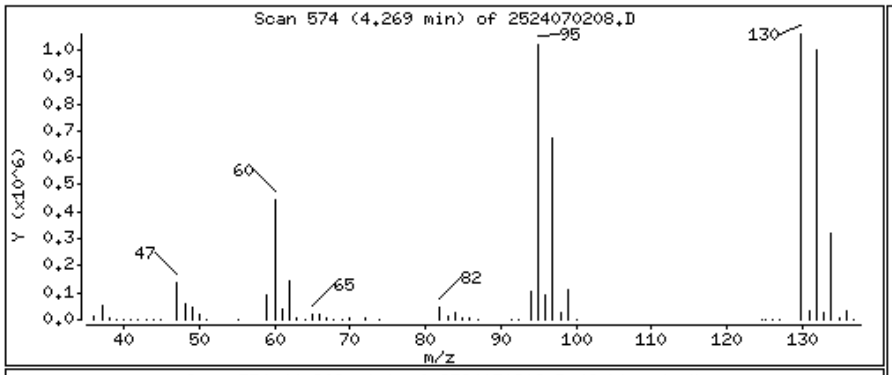
Client ID: ICT12E_062024 Instrument: ms25.i

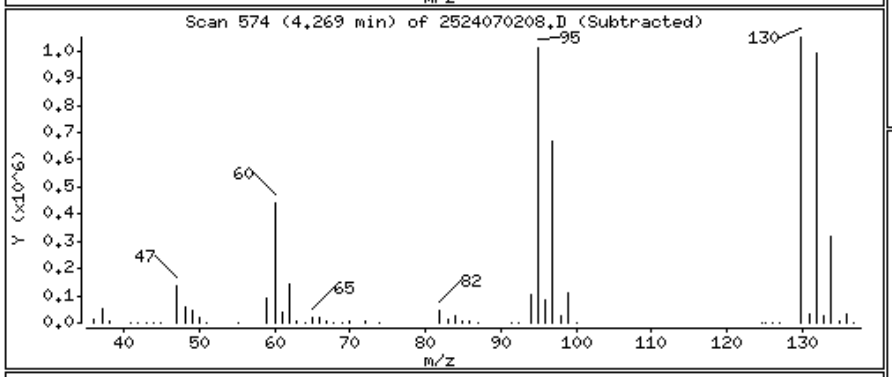
Sample Info: 3366026011;;1;;;;;100

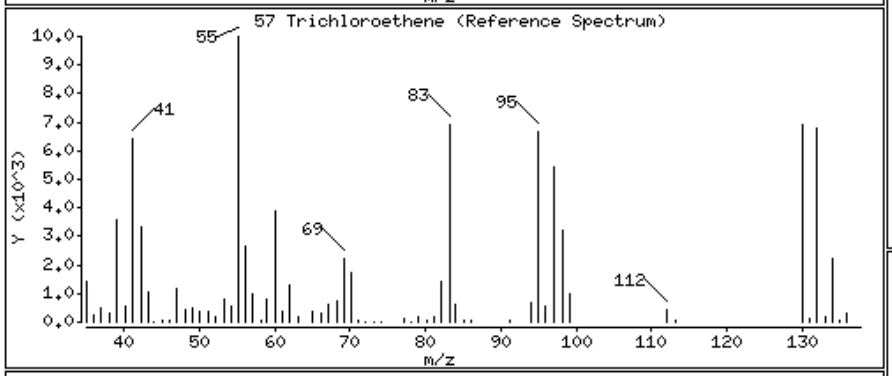
Purge Volume: 5.0 Operator: TMP

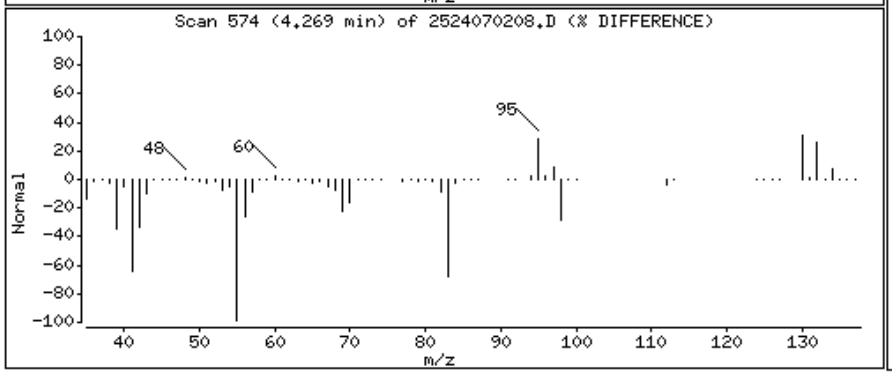
Column phase: DB-VRX Column diameter: 0.25

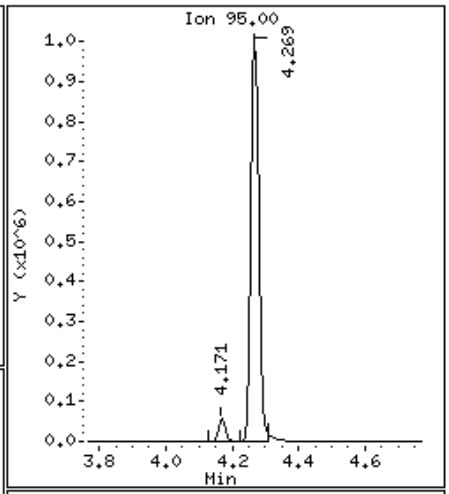
57 Trichloroethene Concentration: 20671.9 ug/L

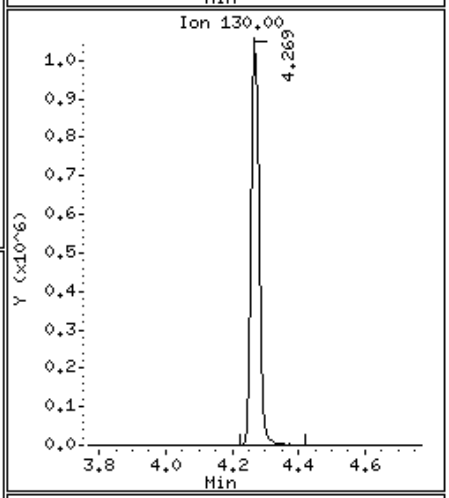


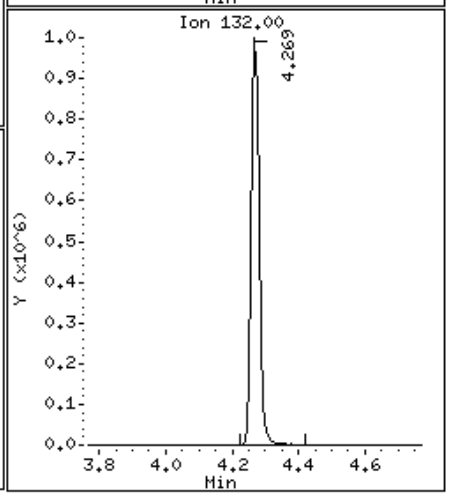












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D Page 9

Date : 02-JUL-2024 12:31

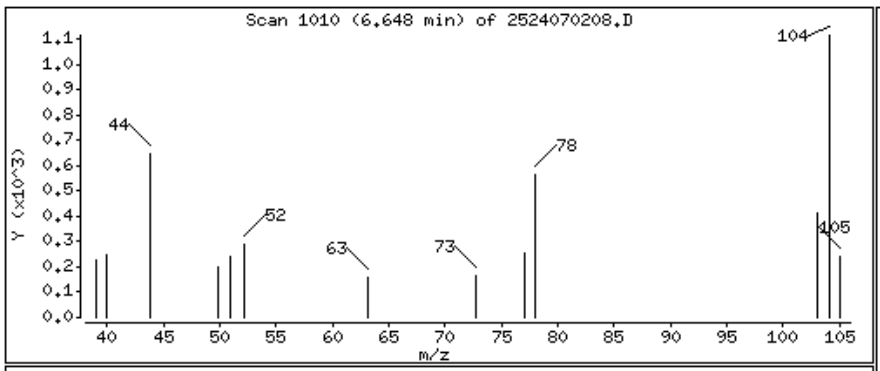
Client ID: ICT12E_062024 Instrument: ms25.i

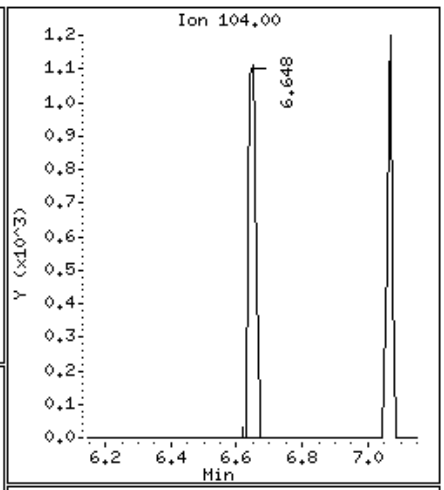
Sample Info: 3366026011;;1;;;;;100

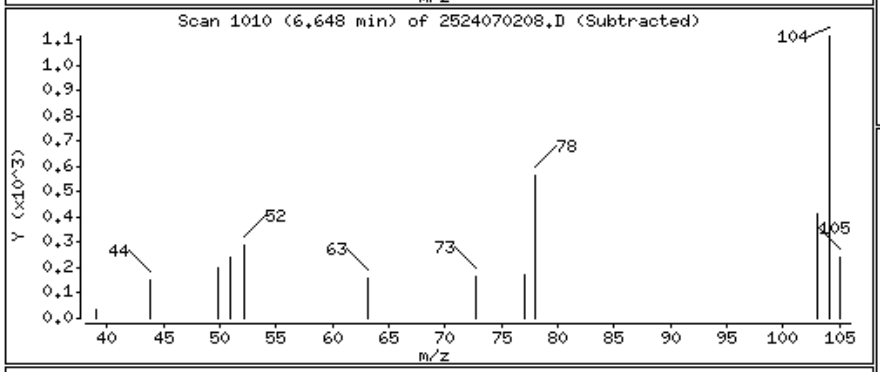
Purge Volume: 5.0 Operator: TMP

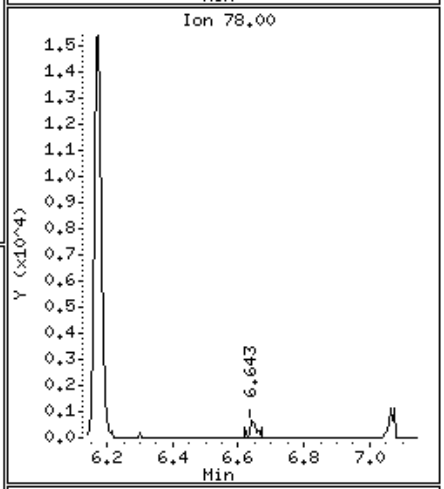
Column phase: DB-VRX Column diameter: 0.25

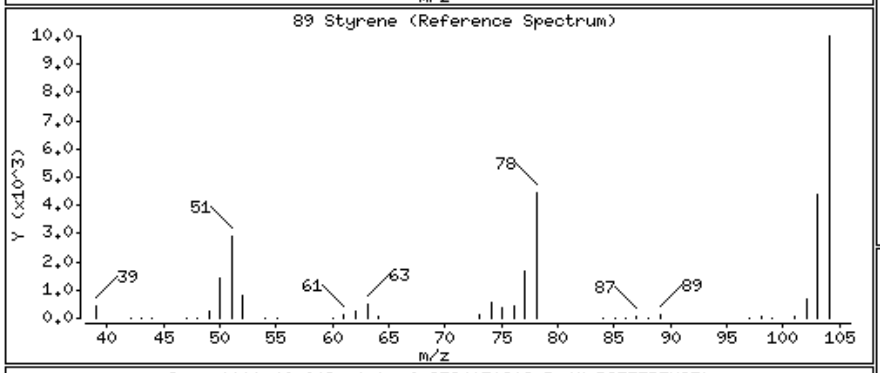
89 Styrene Concentration: 38.3687 ug/L

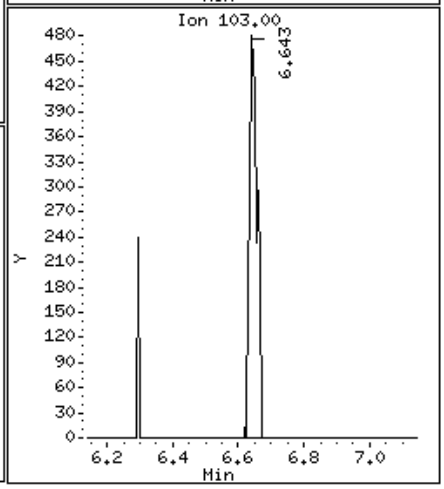


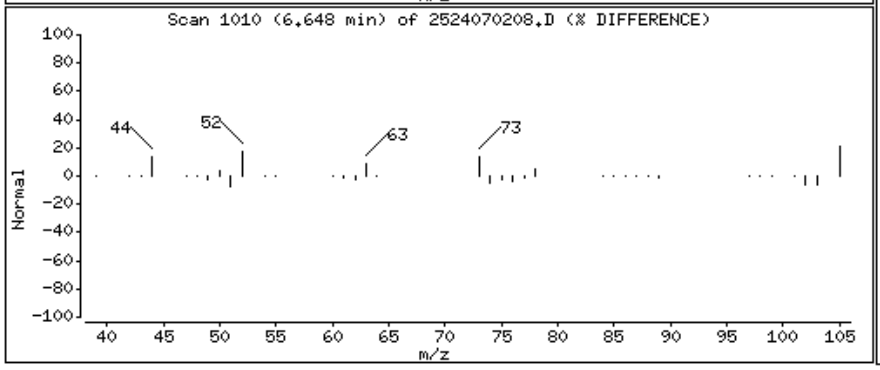












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070208.D
Inj Date : 02-JUL-2024 12:31
InstruID : ms25.i
LabSampID : 3366026011

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:37
Client ID: ICT12E_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407020
Inj Date: 02-JUL-2024 12:31
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	tert-amyl methyl Ether
tert-Amyl Alcohol	tert-Amyl Ethylether
Bromodichloromethane	2-Butanone
Chloroethane	1-Chlorobutane
1-Chlorohexane	1,2-Dichloroethane
Ethyl methacrylate	Methacrylonitrile
Methyl cyclohexane	2-Nitropropane
1,1,1-Trichloroethane	Trichlorofluoromethane

Data File: 2524070209.D Page 1
Report Date: 09-Jul-2024 13:00

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D
Lab Smp Id: 3366026010 Client Smp ID: ICT12D_062024_a
Inj Date : 02-JUL-2024 12:52
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026010;;1;;;;;100
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 9
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	58221	5.33601	533.601	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	14694	1.75108	175.108	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	324085	54.9095	5490.95	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.741	2.741	(0.657)	148495	21.6640	2166.40	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070209.D Page 2
Report Date: 09-Jul-2024 13:00

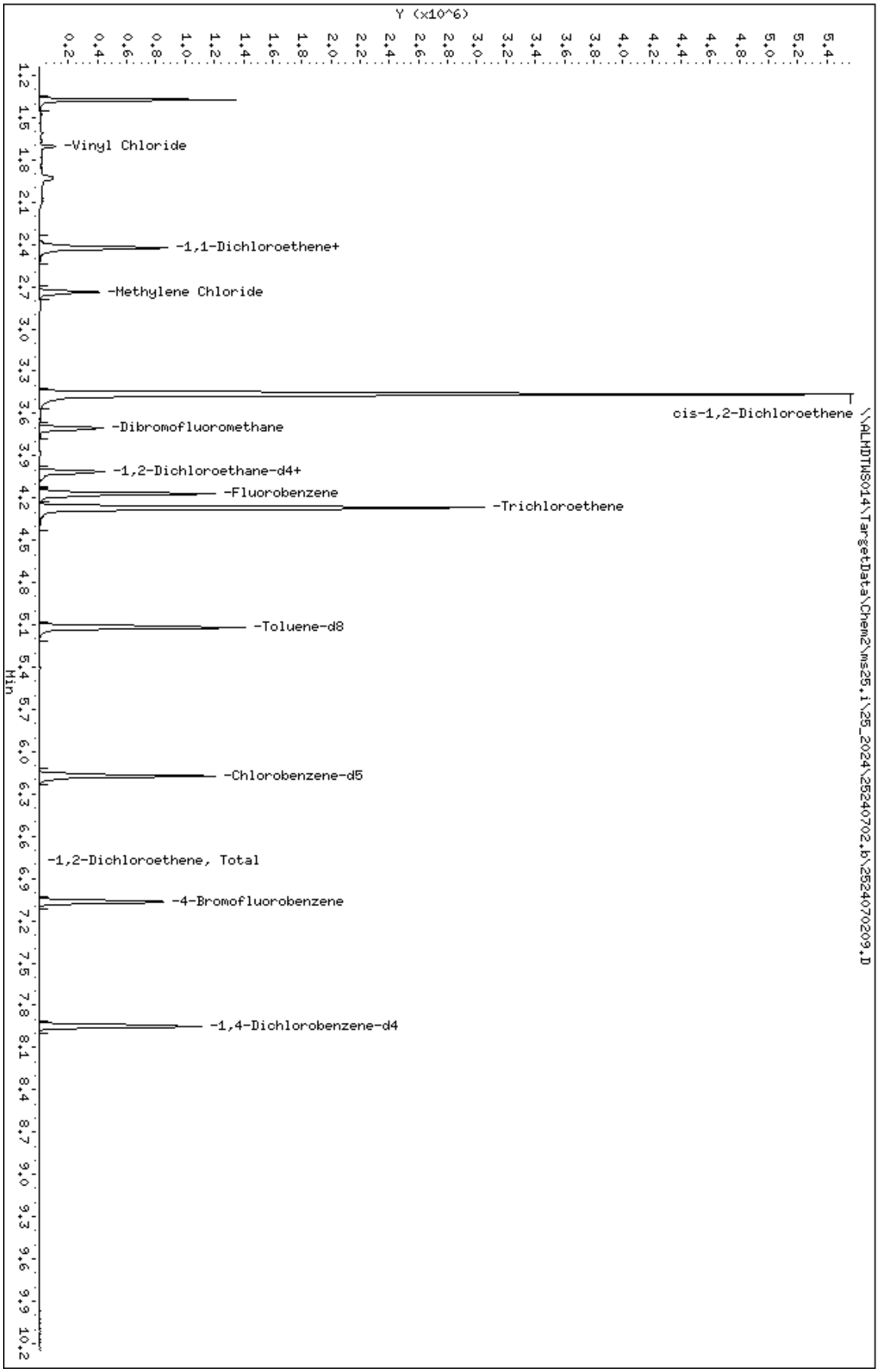
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	2370164	284.414	28441.4(A)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				2370164	284.414	28441.4	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.701	(0.889)	207466	30.1435	3014.35	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	245639	33.8565	3385.65	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	15781	1.83519	183.519	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	872284	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	806408	116.481	11648.1	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	793038	30.8654	3086.54	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070209.D Page 3
Report Date: 09-Jul-2024 13:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	324524	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	215759	28.3630	2836.30	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	274973	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D
Date : 02-JUL-2024 12:52
Client ID: ICT12D_062024_a
Sample Info: 336602601O;;1;;;;;100
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D Page 2

Date : 02-JUL-2024 12:52

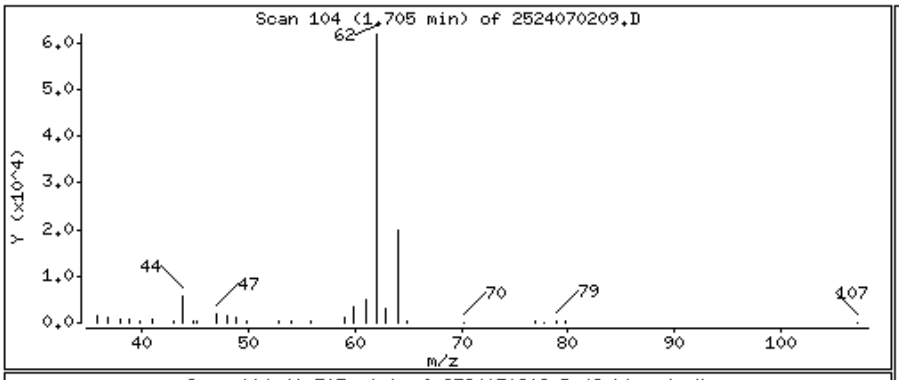
Client ID: ICT12D_062024_a Instrument: ms25.i

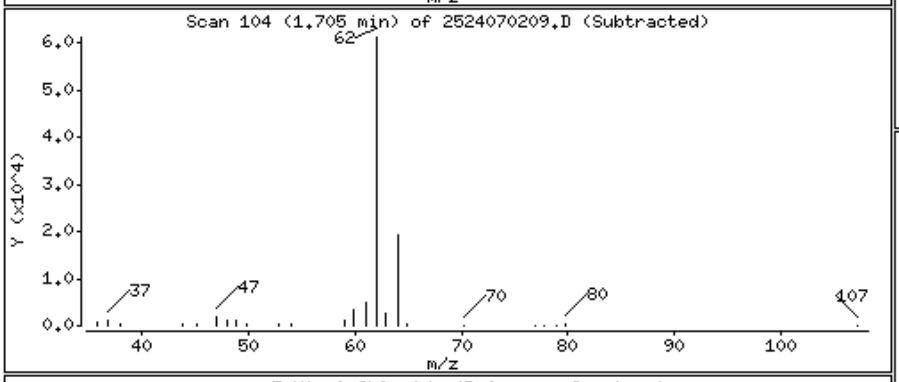
Sample Info: 3366026010;;1;;;;;100

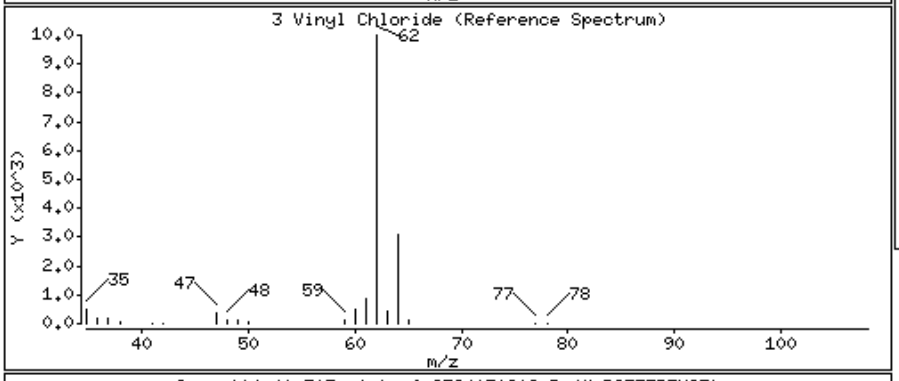
Purge Volume: 5.0 Operator: TMP

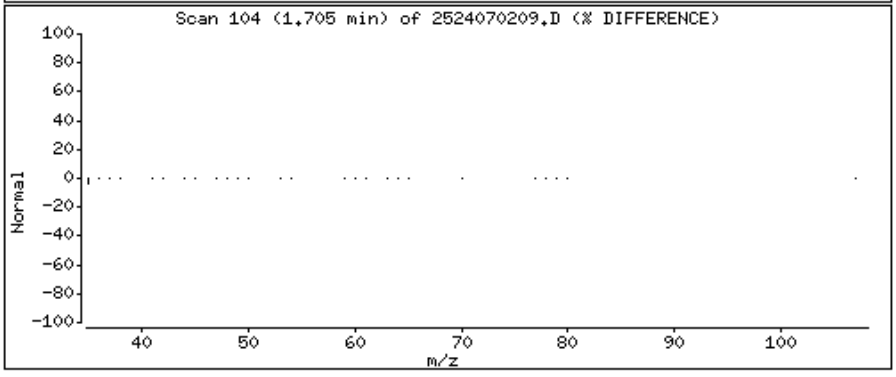
Column phase: DB-VRX Column diameter: 0.25

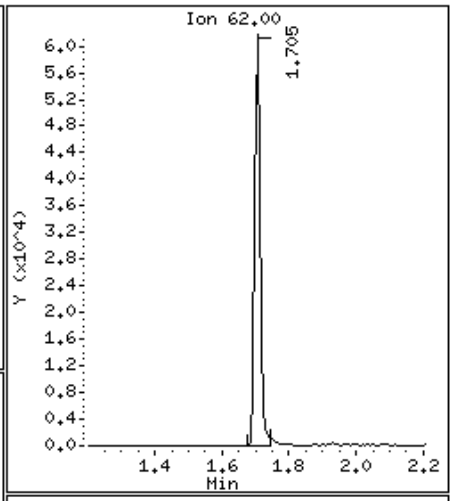
3 Vinyl Chloride Concentration: 533.601 ug/L

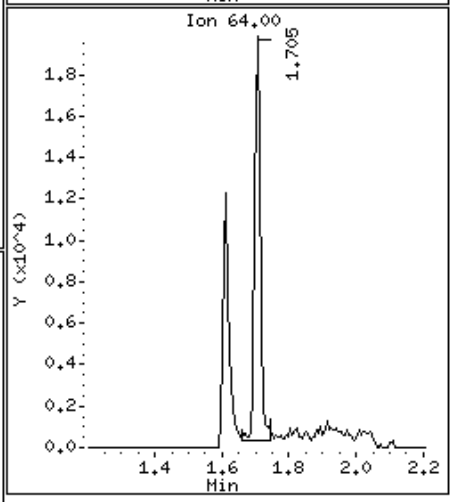












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D Page 3

Date : 02-JUL-2024 12:52

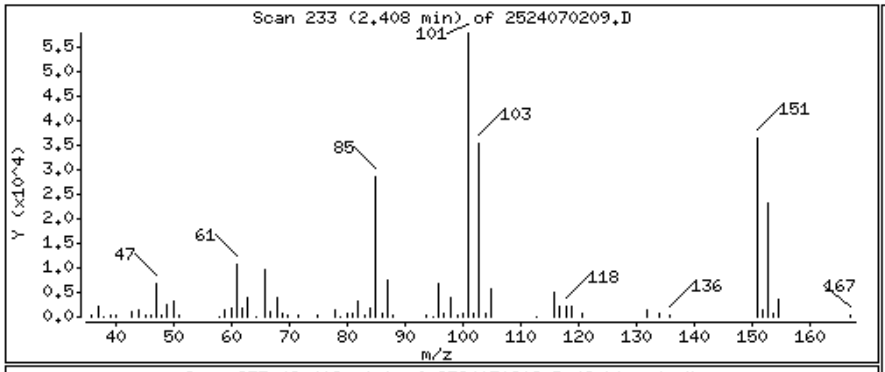
Client ID: ICT12D_062024_a Instrument: ms25.i

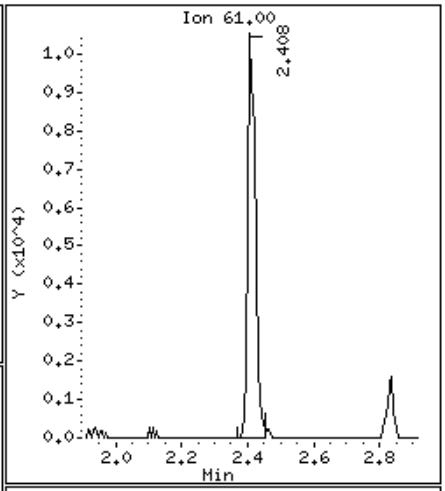
Sample Info: 3366026010;;1;;;;;100

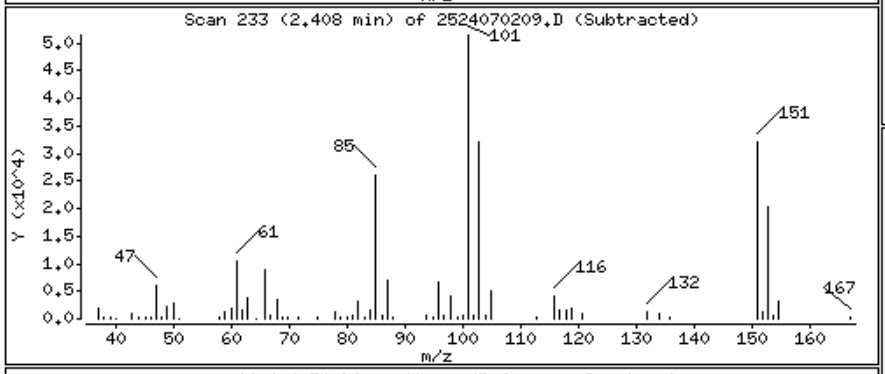
Purge Volume: 5.0 Operator: TMP

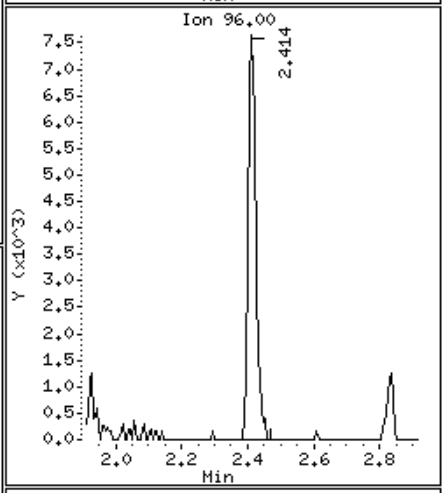
Column phase: DB-VRX Column diameter: 0.25

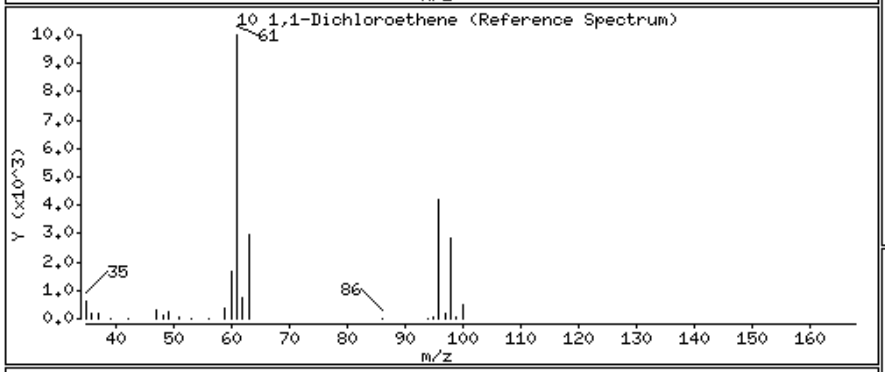
10 1,1-Dichloroethene Concentration: 175.108 ug/L

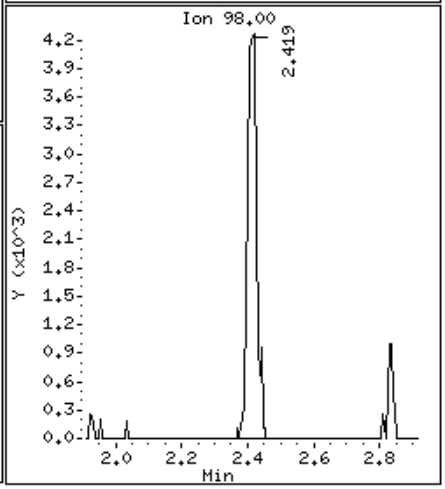


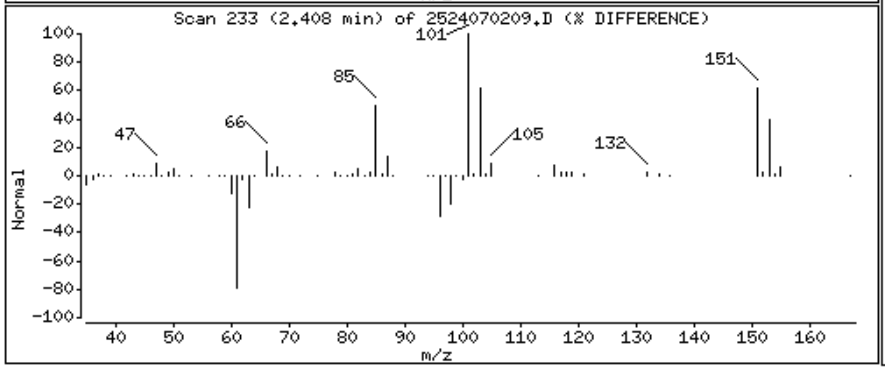












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D Page 4

Date : 02-JUL-2024 12:52

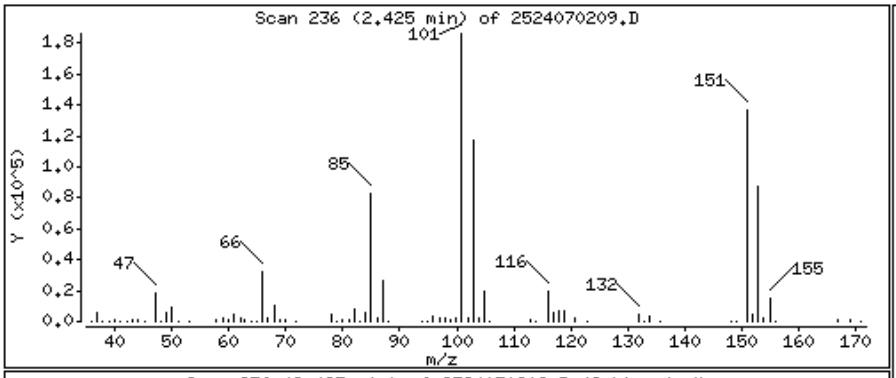
Client ID: ICT12D_062024_a Instrument: ms25.i

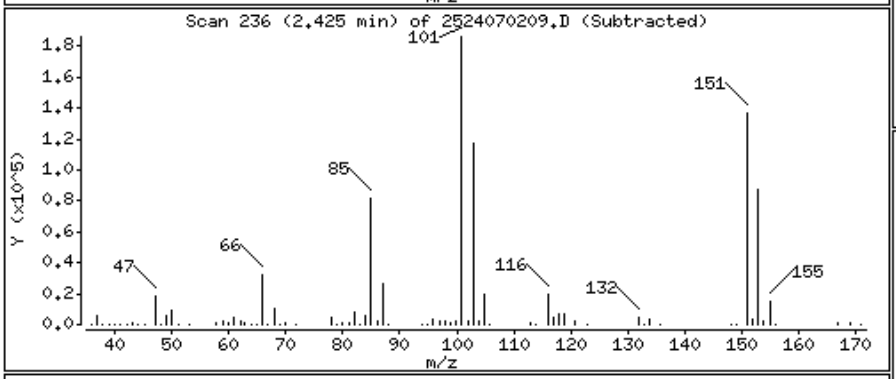
Sample Info: 3366026010;;1;;;;;100

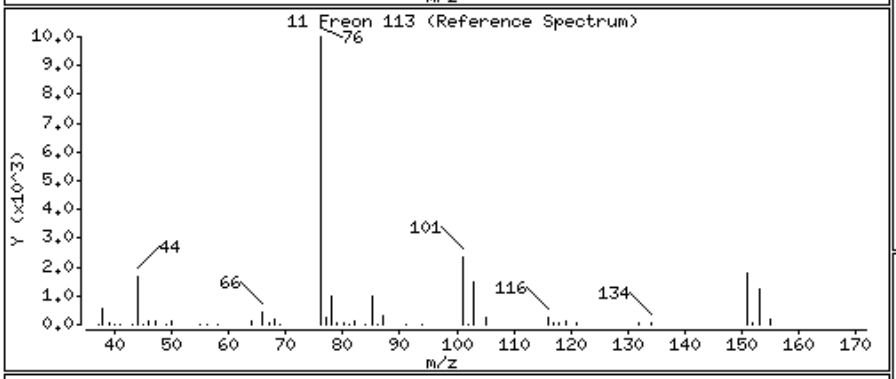
Purge Volume: 5.0 Operator: TMP

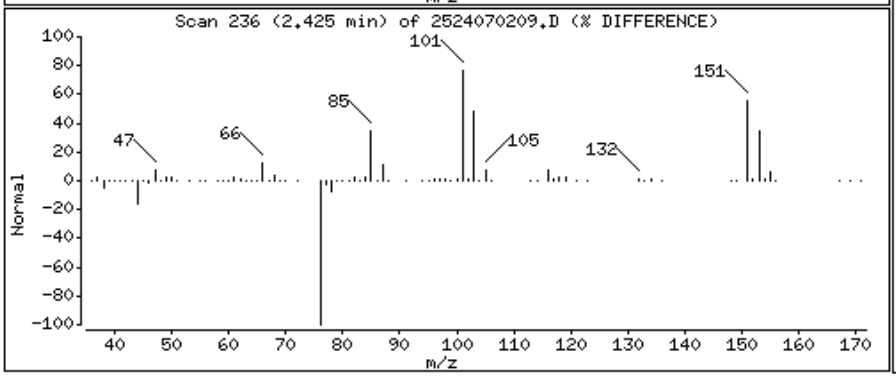
Column phase: DB-VRX Column diameter: 0.25

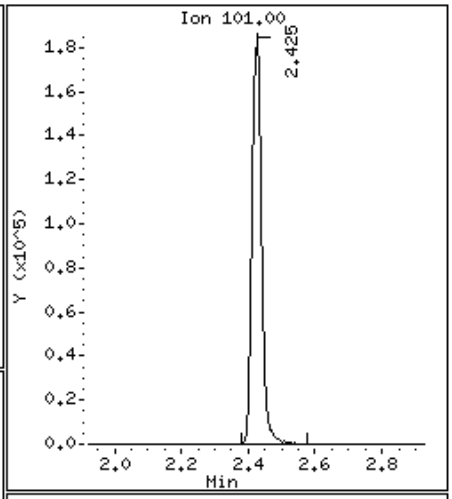
11 Freon 113 Concentration: 5490.95 ug/L

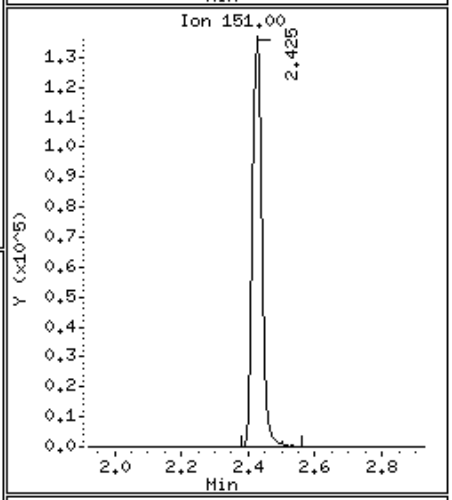


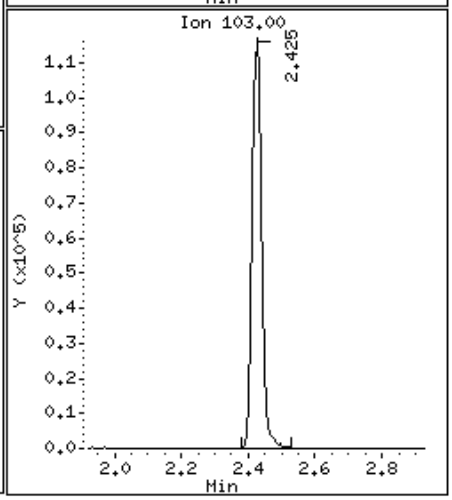












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D Page 5

Date : 02-JUL-2024 12:52

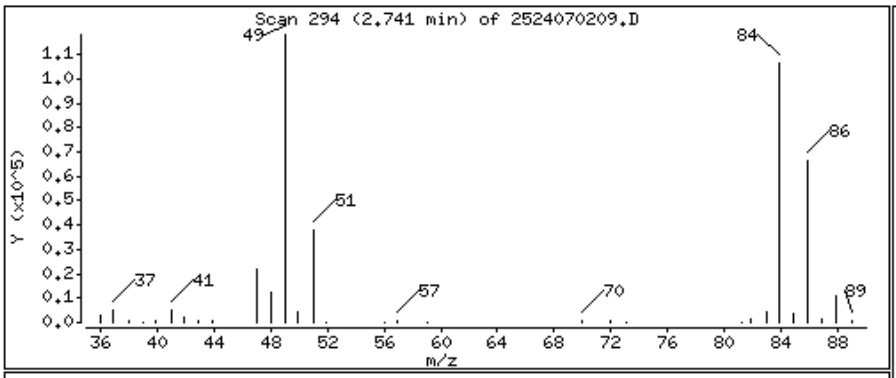
Client ID: ICT12D_062024_a Instrument: ms25.i

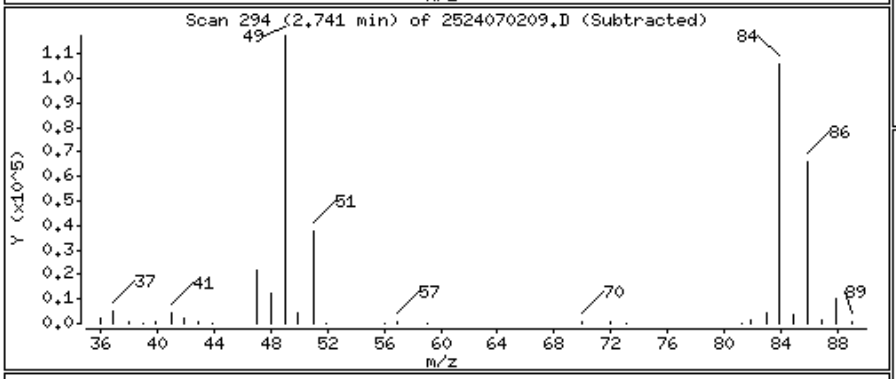
Sample Info: 3366026010;;1;;;;;100

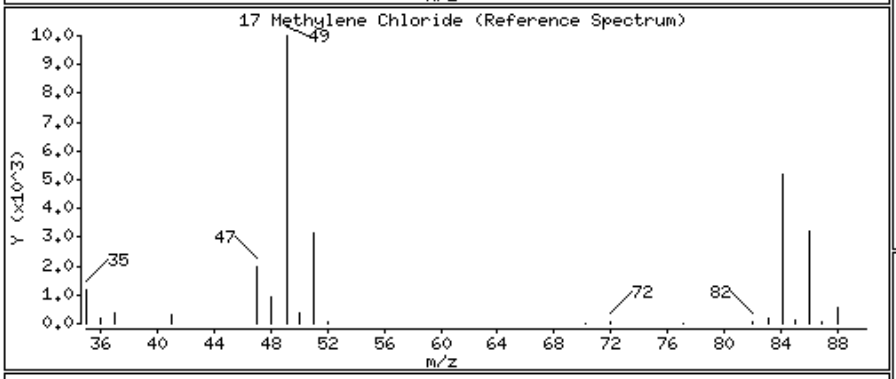
Purge Volume: 5.0 Operator: TMP

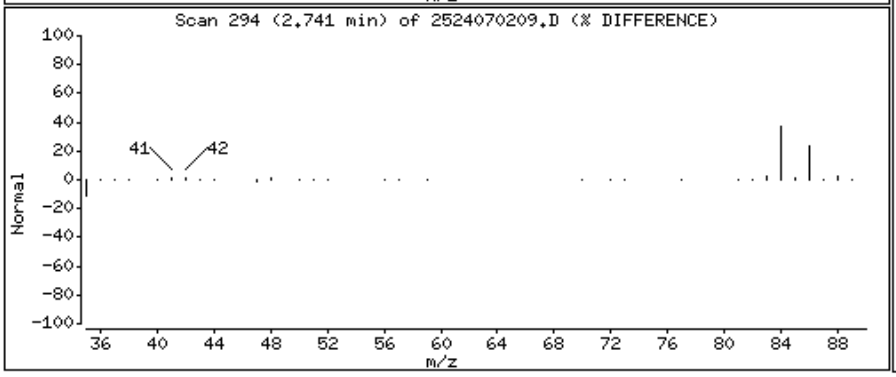
Column phase: DB-VRX Column diameter: 0.25

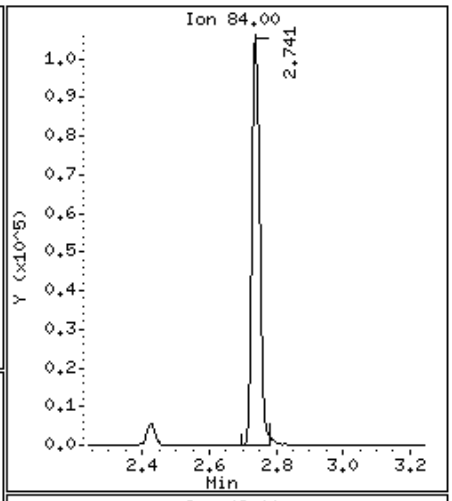
17 Methylene Chloride Concentration: 2166.40 ug/L

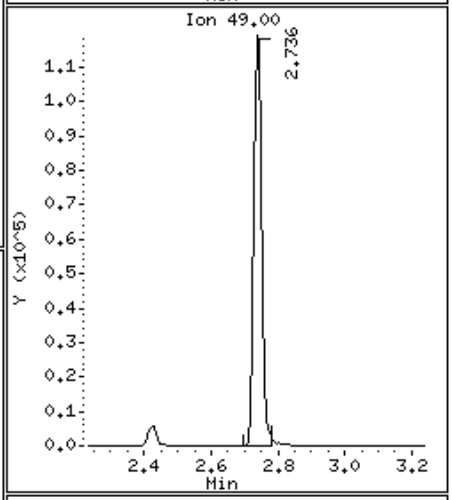


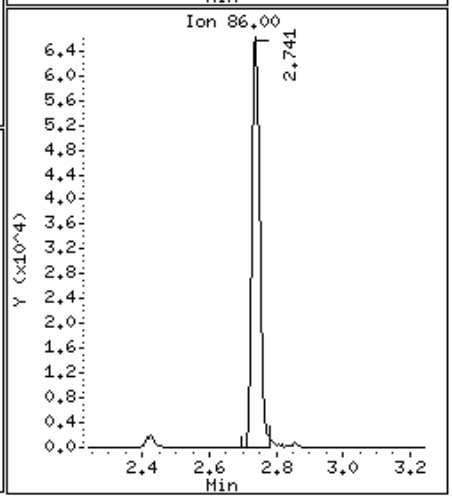












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D Page 6

Date : 02-JUL-2024 12:52

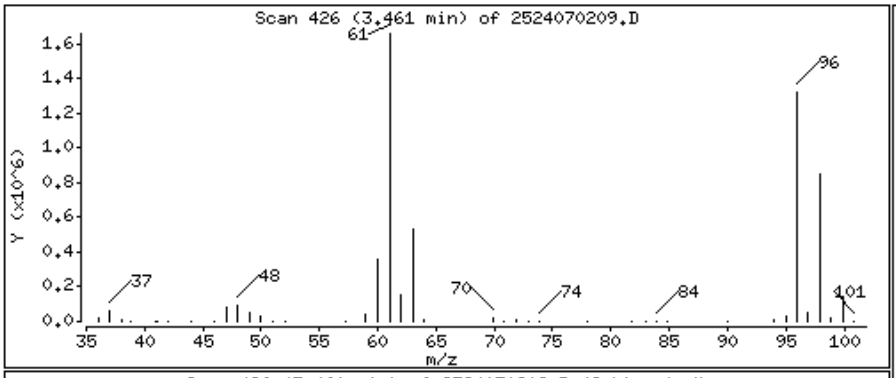
Client ID: ICT12D_062024_a Instrument: ms25.i

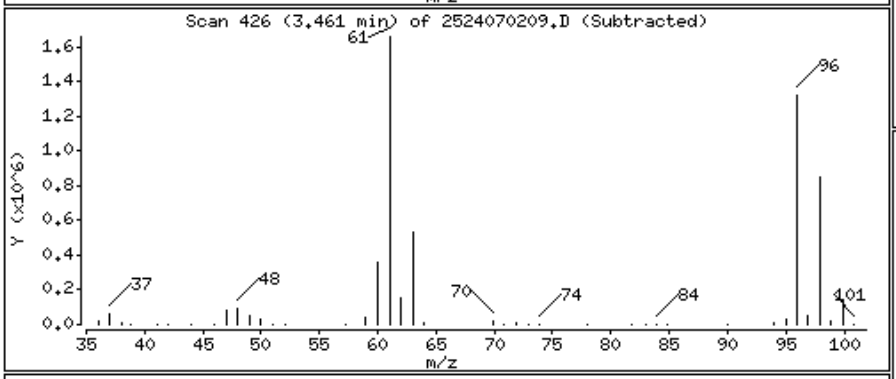
Sample Info: 3366026010;;1;;;;;100

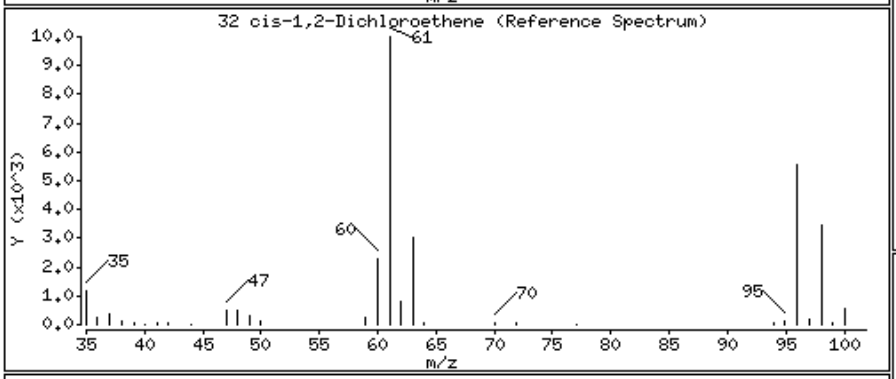
Purge Volume: 5.0 Operator: TMP

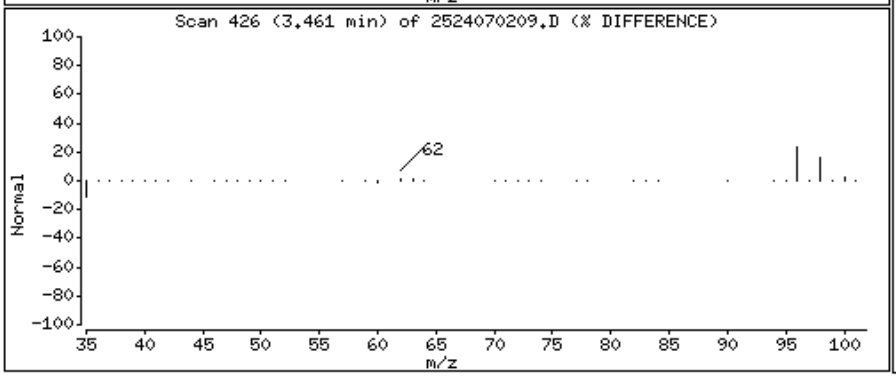
Column phase: DB-VRX Column diameter: 0.25

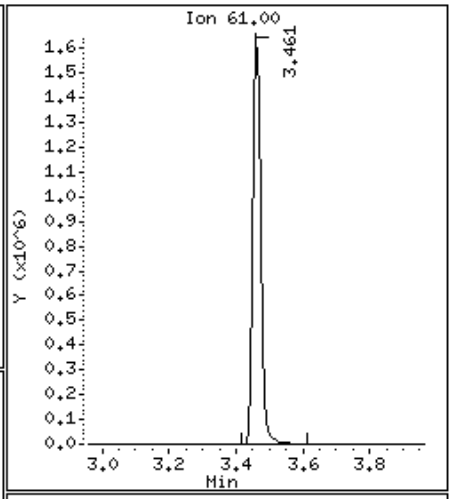
32 cis-1,2-Dichloroethene Concentration: 28441.4 ug/L

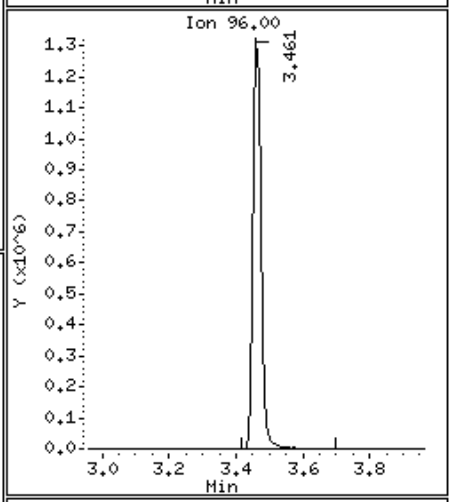


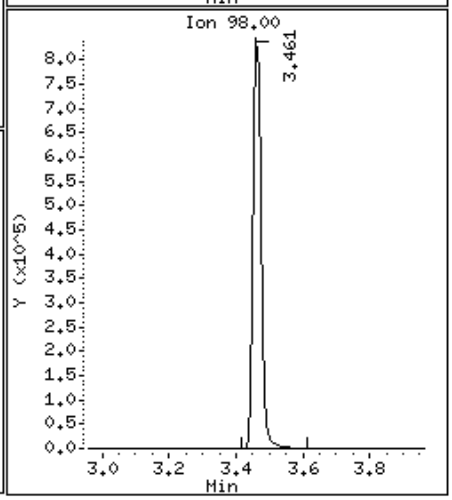












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D Page 7

Date : 02-JUL-2024 12:52

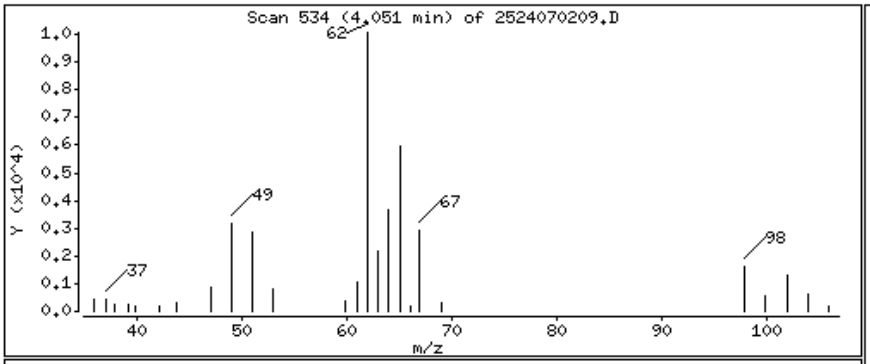
Client ID: ICT12D_062024_a Instrument: ms25.i

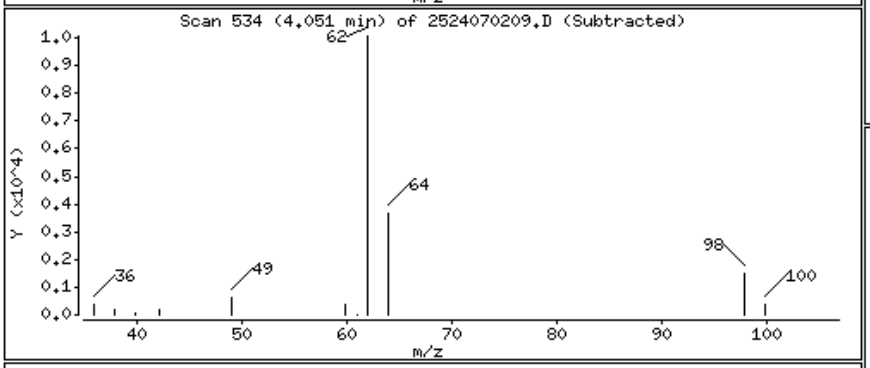
Sample Info: 3366026010;;1;;;;;100

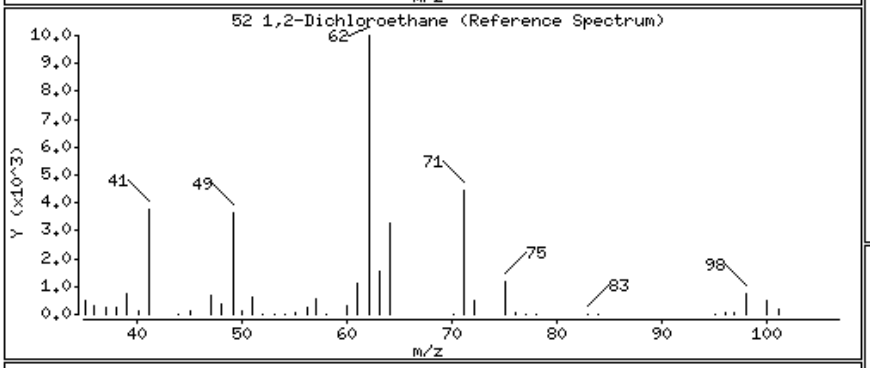
Purge Volume: 5.0 Operator: TMP

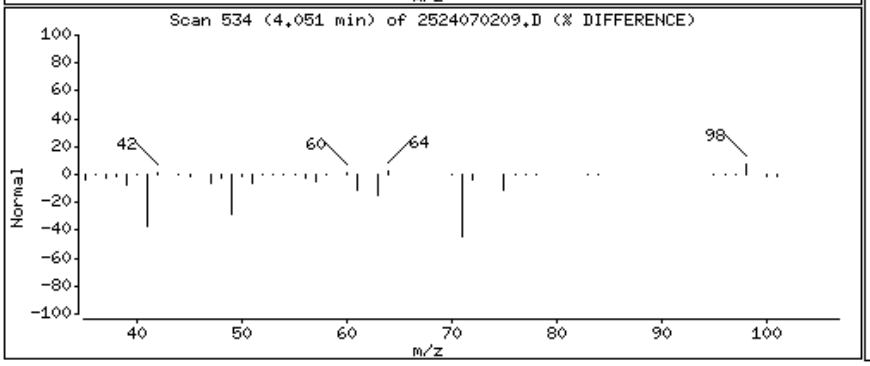
Column phase: DB-VRX Column diameter: 0.25

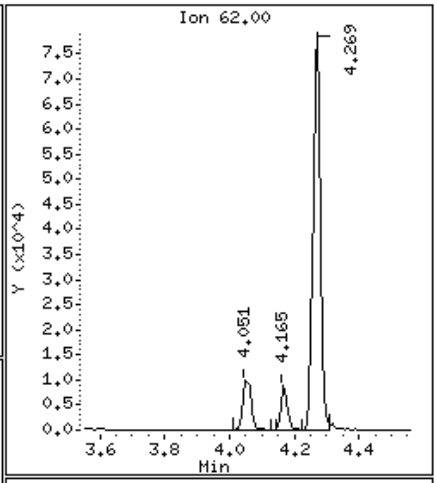
52 1,2-Dichloroethane Concentration: 183.519 ug/L

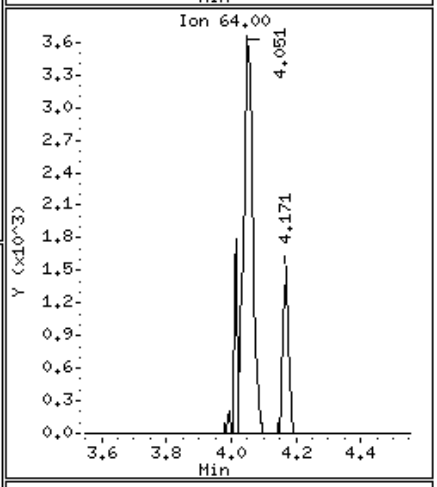


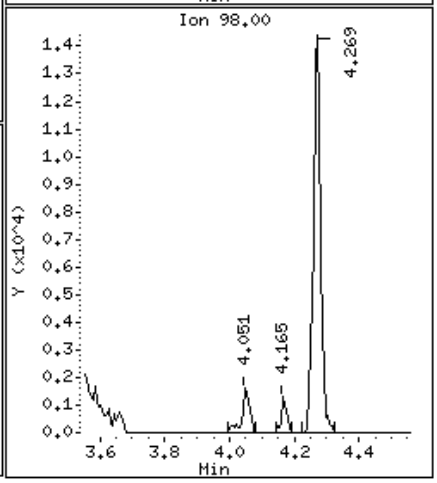












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D Page 8

Date : 02-JUL-2024 12:52

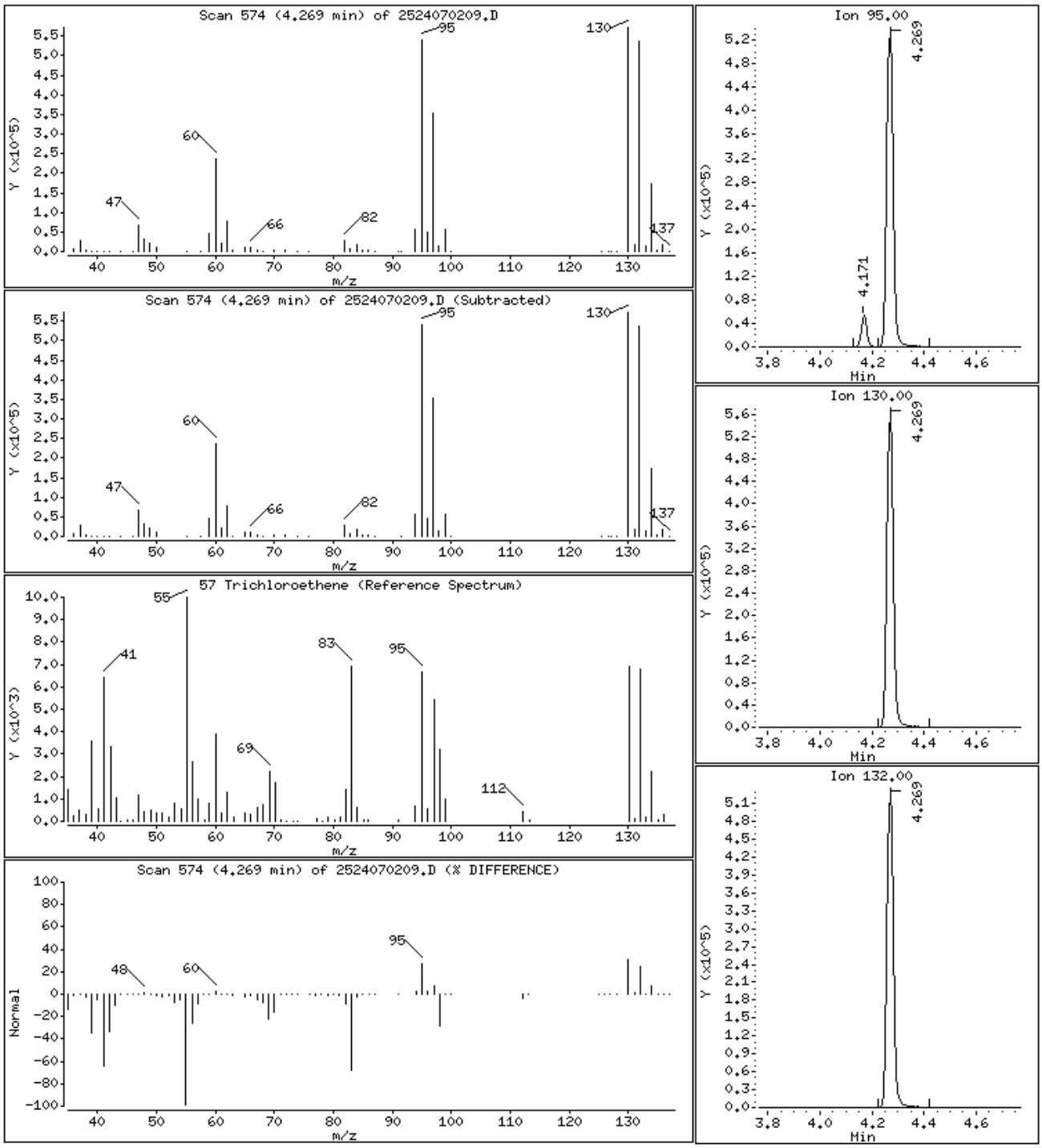
Client ID: ICT12D_062024_a Instrument: ms25.i

Sample Info: 3366026010;;1;;;;;100

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 11648.1 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070209.D
Inj Date : 02-JUL-2024 12:52
InstruID : ms25.i
LabSampID : 3366026010

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 13:00
Client ID: ICT12D_062024_a
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407020
Inj Date: 02-JUL-2024 12:52
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	tert-amyl methyl Ether
tert-Amyl Alcohol	tert-Amyl Ethylether
Bromodichloromethane	2-Butanone
1-Chlorobutane	1-Chlorohexane
trans-1,2-Dichloroethene	Dichlorofluoromethane
Ethyl methacrylate	Heptane
2-Hexanone	Methacrylonitrile
Methyl cyclohexane	2-Nitropropane
1,1,1-Trichloroethane	Trichlorofluoromethane

Data File: 2524070210.D Page 1
Report Date: 09-Jul-2024 12:39

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D
Lab Smp Id: 3366026009 Client Smp ID: ICT12D_062024
Inj Date : 02-JUL-2024 13:12
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026009;;1;;;;;100
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 10
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	39748	3.64095	364.095	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	13115	1.56205	156.205	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	242604	41.0818	4108.18	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.735	2.741	(0.656)	114311	16.6678	1666.78	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070210.D
Report Date: 09-Jul-2024 12:39

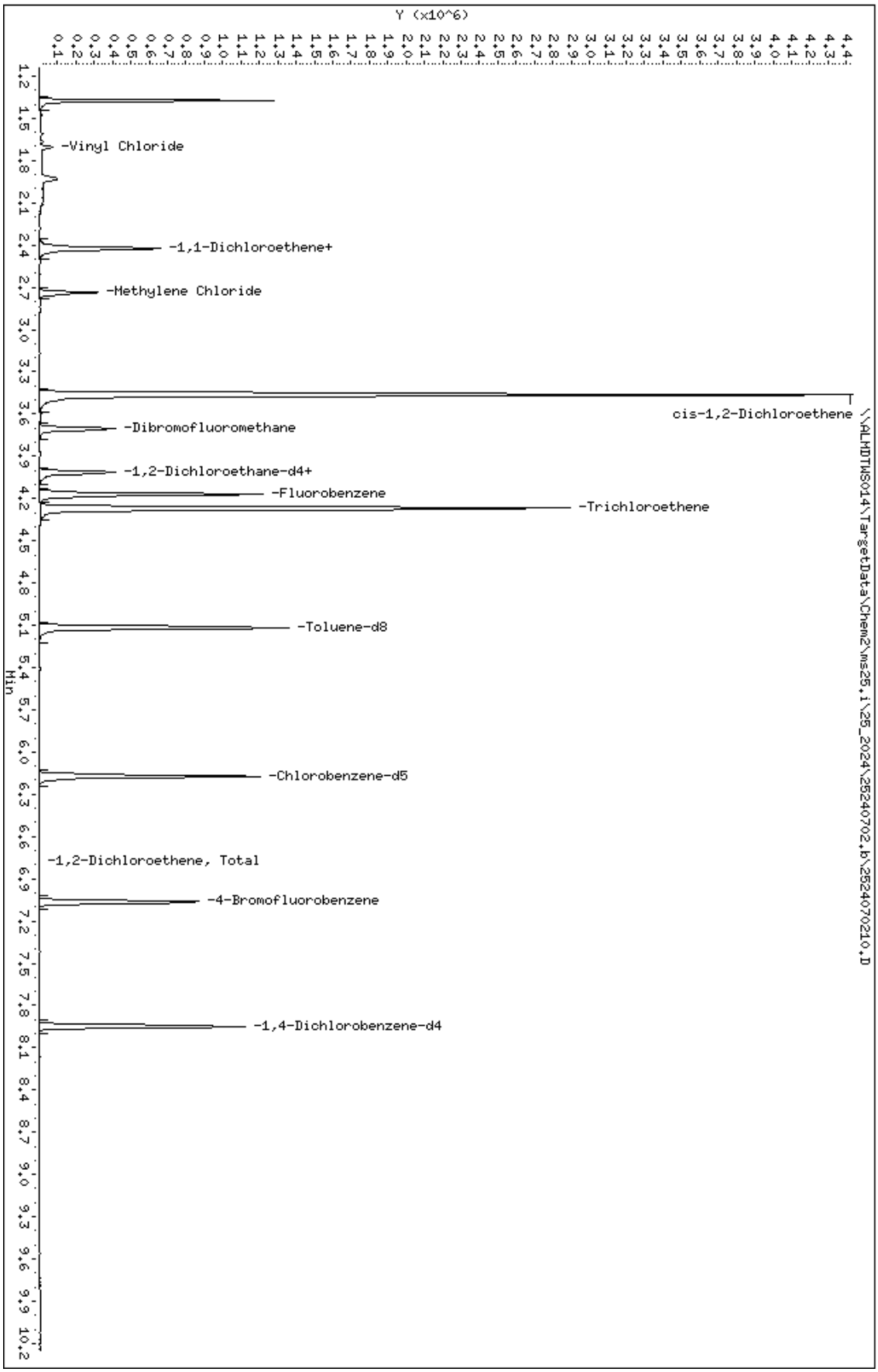
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	1867131	223.929	22392.9(A)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				1867131	223.929	22392.9	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.701	(0.889)	199207	28.9278	2892.78	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	229412	31.6026	3160.26	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	13322	1.54839	154.839(H)	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	872760	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	752018	108.566	10856.6	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	795704	30.6011	3060.11	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070210.D Page 3
Report Date: 09-Jul-2024 12:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)		REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.							
	78 Chlorodibromomethane	129	Compound Not Detected.							
	79 1,3-Dichloropropane	76	Compound Not Detected.							
	80 1,2-Dibromoethane	107	Compound Not Detected.							
	81 2-Hexanone	43	Compound Not Detected.							
	82 1-Chlorohexane	91	Compound Not Detected.							
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	328427	30.0000			
	85 Ethylbenzene	106	Compound Not Detected.							
	84 Chlorobenzene	112	Compound Not Detected.							
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.							
	87 mp-Xylene	106	Compound Not Detected.							
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.							
	88 o-Xylene	106	Compound Not Detected.							
	89 Styrene	104	Compound Not Detected.							
	90 Bromoform	173	Compound Not Detected.							
	91 Isopropylbenzene	105	Compound Not Detected.							
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	222269	29.5891	2958.91		
M	121 TOTAL XYLENES	106	Compound Not Detected.							
	94 n-Propylbenzene	120	Compound Not Detected.							
	93 Bromobenzene	156	Compound Not Detected.							
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.							
	96 o-Chlorotoluene	91	Compound Not Detected.							
	98 1,2,3-Trichloropropane	110	Compound Not Detected.							
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.							
	101 p-Chlorotoluene	91	Compound Not Detected.							
	102 tert-Butylbenzene	134	Compound Not Detected.							
	103 Pentachloroethane	117	Compound Not Detected.							
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.							
	105 sec-Butylbenzene	105	Compound Not Detected.							
	106 p-Isopropyltoluene	134	Compound Not Detected.							
	107 1,3-Dichlorobenzene	146	Compound Not Detected.							
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	271531	30.0000		(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.							
	111 n-Butylbenzene	134	Compound Not Detected.							
	110 Benzyl Chloride	126	Compound Not Detected.							
	112 Hexachloroethane	117	Compound Not Detected.							
	113 1,2-Dichlorobenzene	146	Compound Not Detected.							
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.							
	115 Nitrobenzene	77	Compound Not Detected.							
	116 Hexachlorobutadiene	225	Compound Not Detected.							
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	118 Naphthalene	128	Compound Not Detected.							
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.



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Date : 02-JUL-2024 13:12
Client ID: ICT12D_062024
Sample Info: 33660260009;1;;;;;100
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: THP
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D Page 2

Date : 02-JUL-2024 13:12

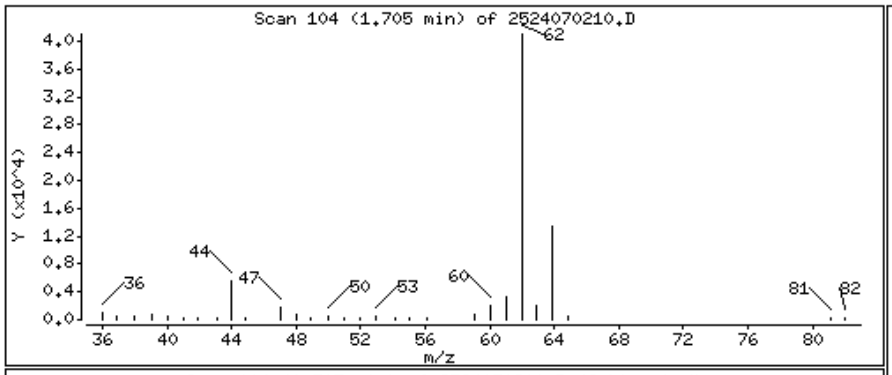
Client ID: ICT12D_062024 Instrument: ms25.i

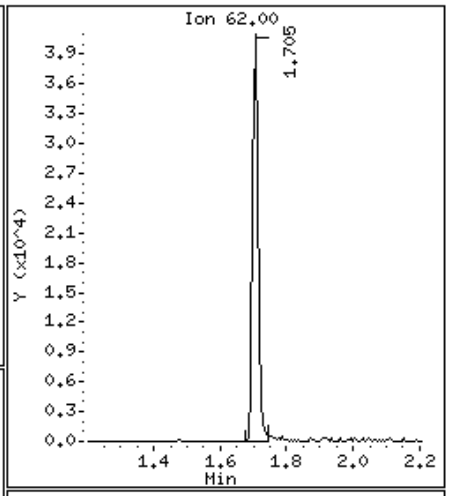
Sample Info: 3366026009;;1;;;;;100

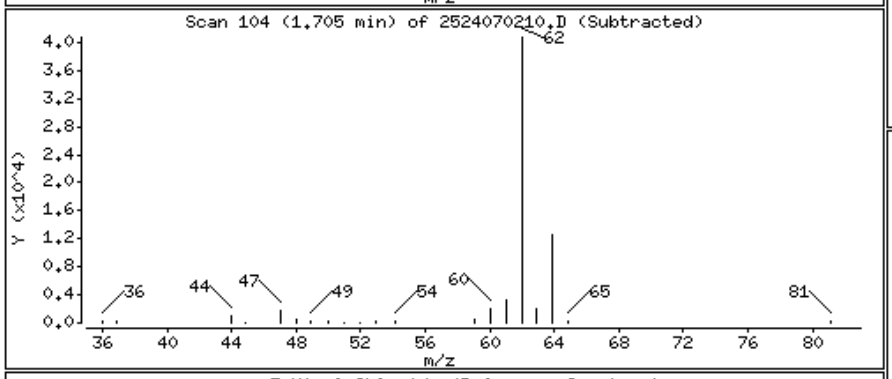
Purge Volume: 5.0 Operator: TMP

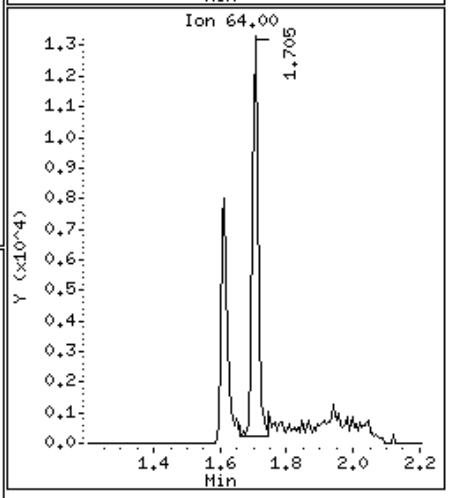
Column phase: DB-VRX Column diameter: 0.25

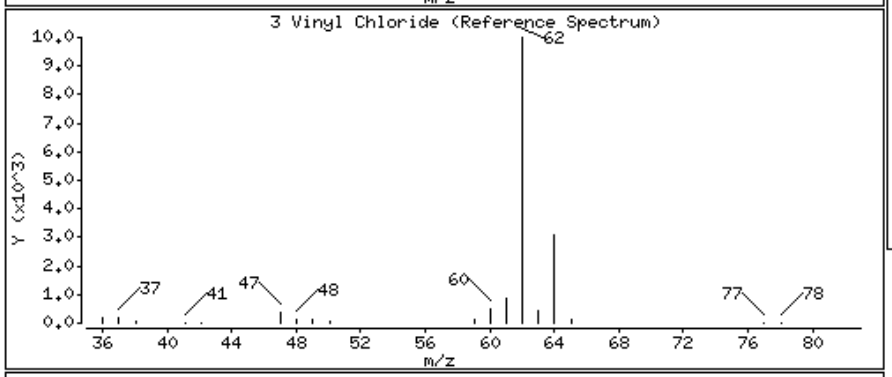
3 Vinyl Chloride Concentration: 364.095 ug/L

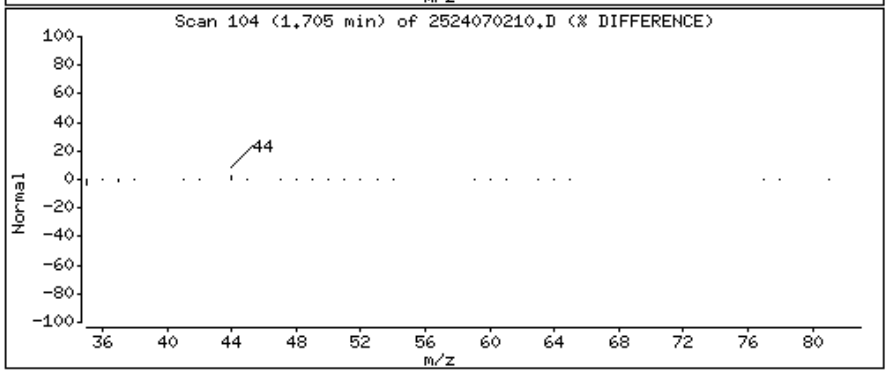












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D Page 3

Date : 02-JUL-2024 13:12

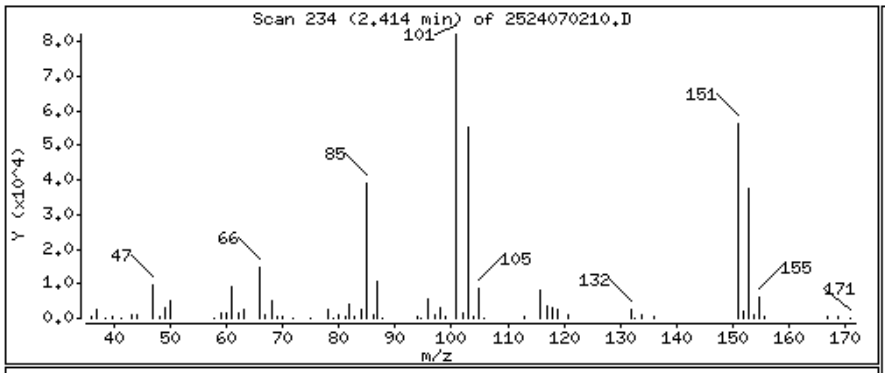
Client ID: ICT12D_062024 Instrument: ms25.i

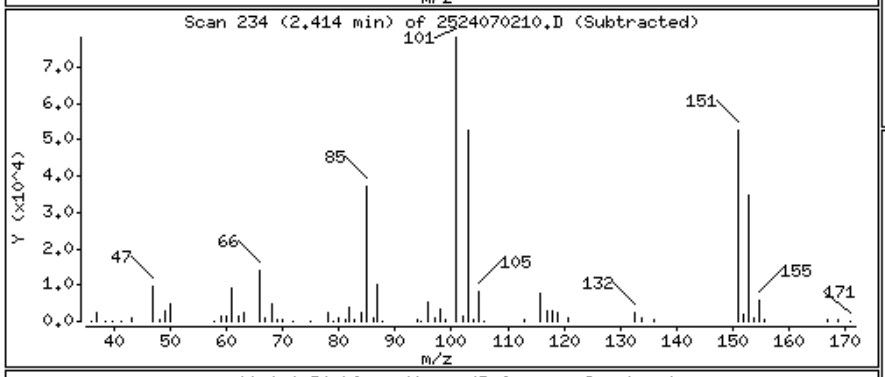
Sample Info: 3366026009;;1;;;;;100

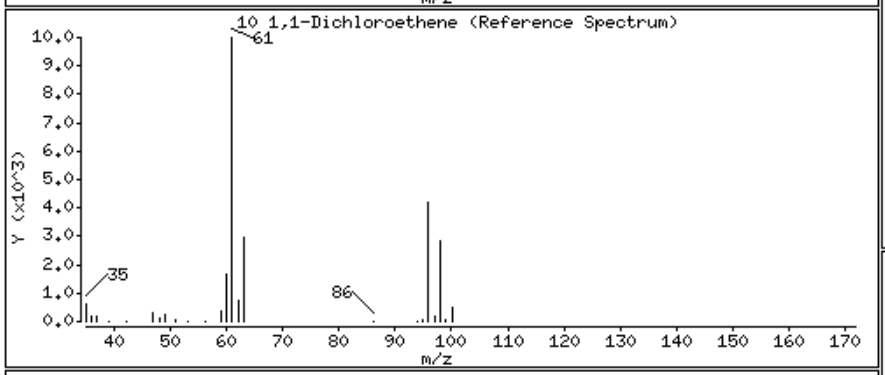
Purge Volume: 5.0 Operator: TMP

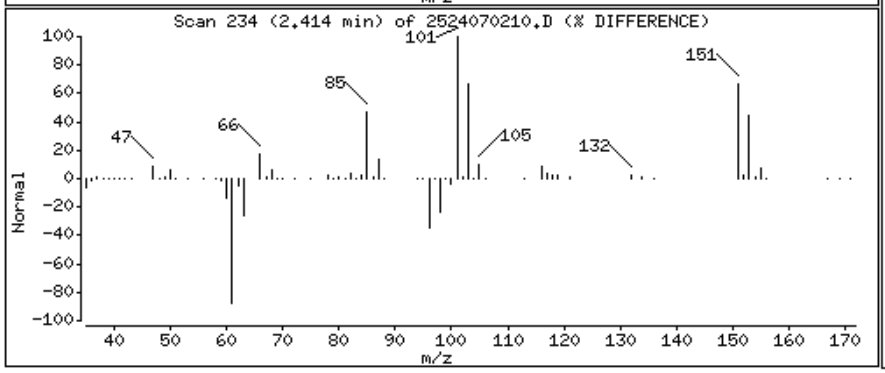
Column phase: DB-VRX Column diameter: 0.25

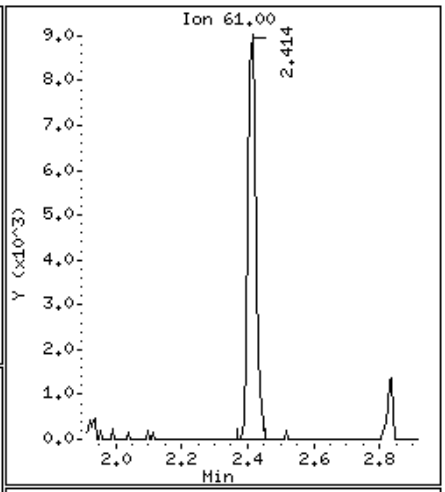
10 1,1-Dichloroethene Concentration: 156.205 ug/L

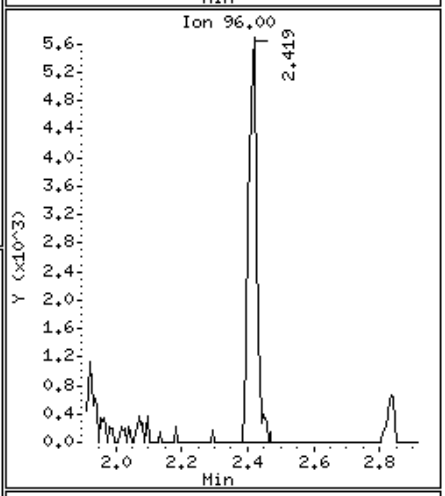


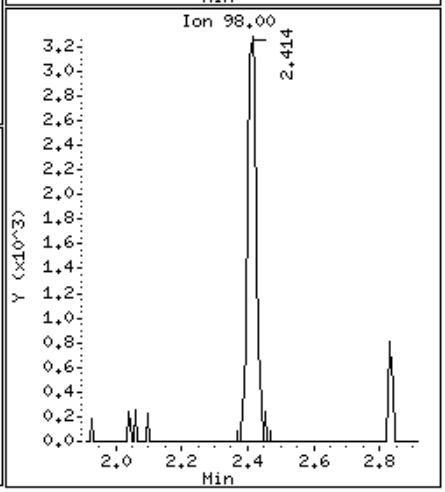












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D Page 4

Date : 02-JUL-2024 13:12

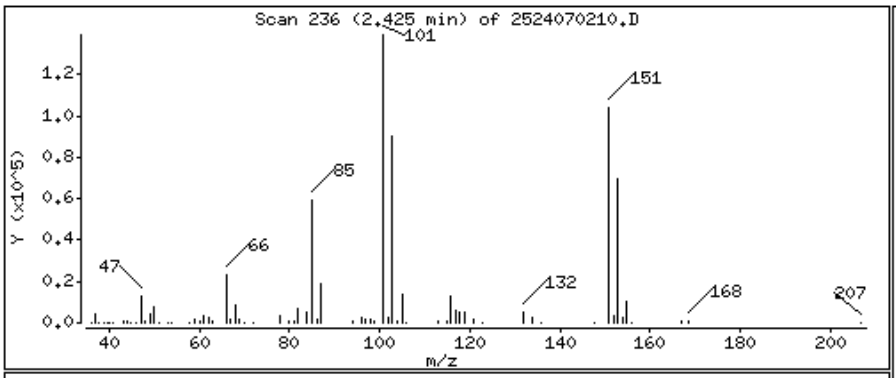
Client ID: ICT12D_062024 Instrument: ms25.i

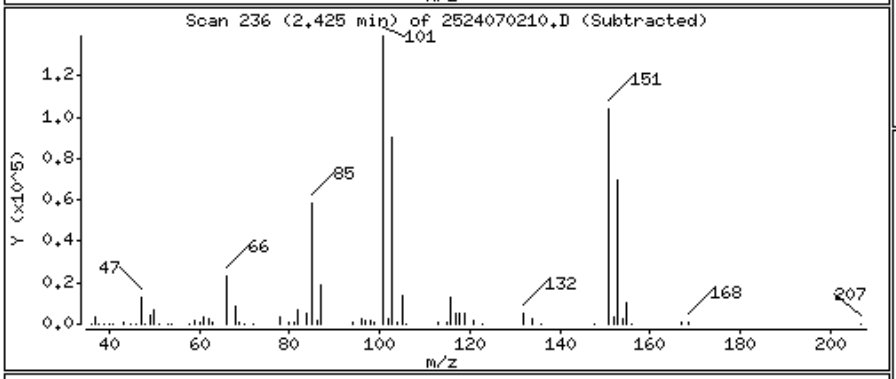
Sample Info: 3366026009;;1;;;;;100

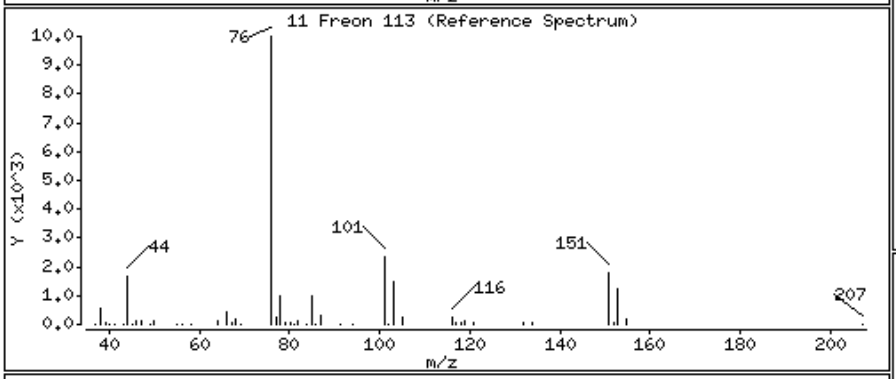
Purge Volume: 5.0 Operator: TMP

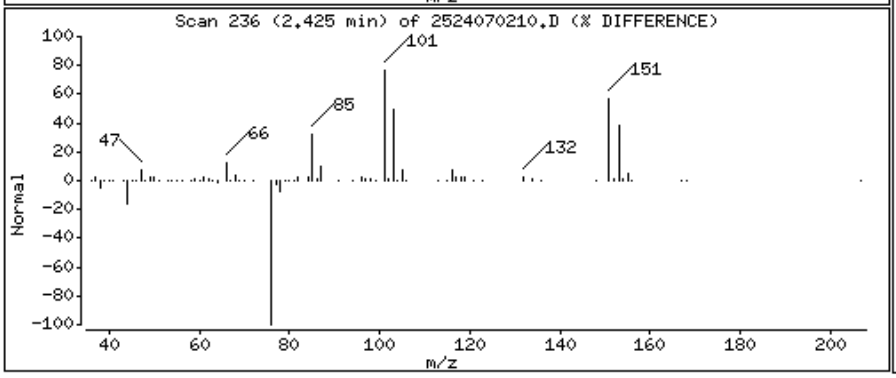
Column phase: DB-VRX Column diameter: 0.25

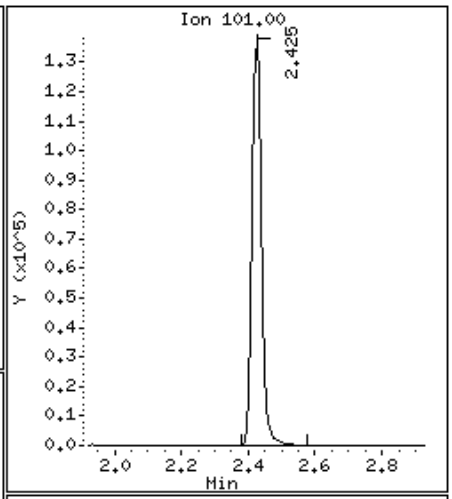
11 Freon 113 Concentration: 4108.18 ug/L

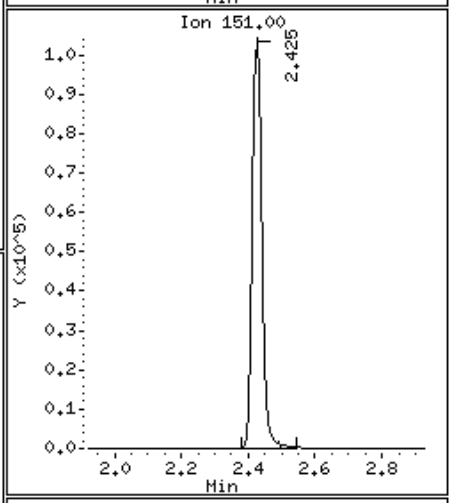


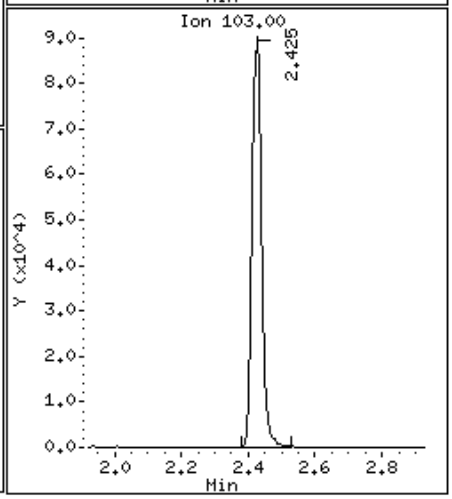












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D Page 5

Date : 02-JUL-2024 13:12

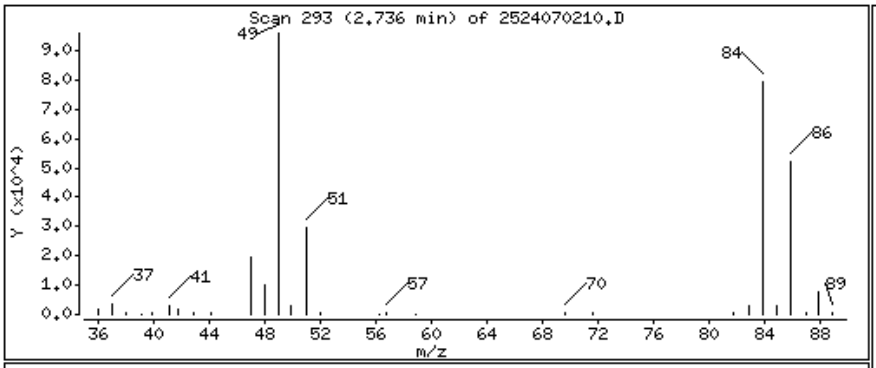
Client ID: ICT12D_062024 Instrument: ms25.i

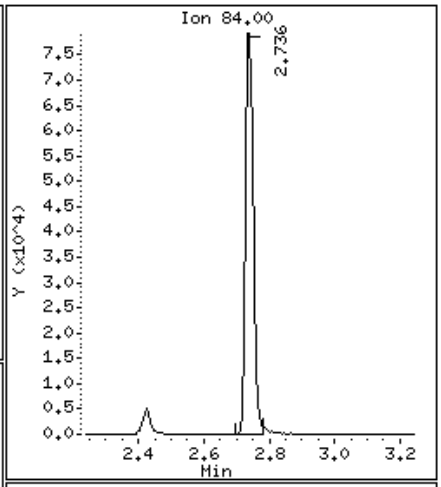
Sample Info: 3366026009;;1;;;;;100

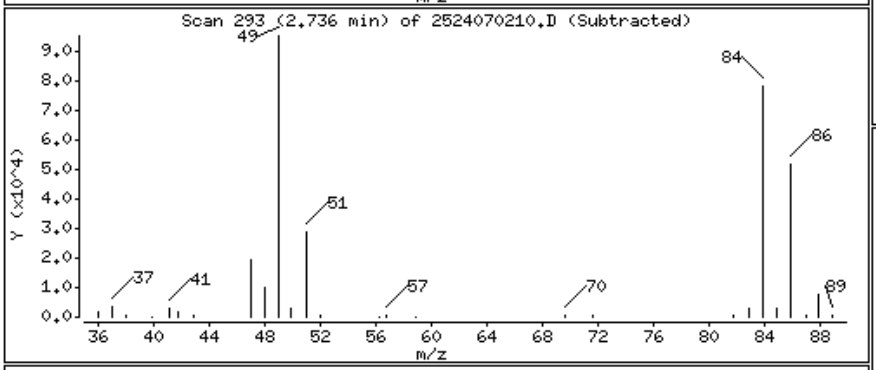
Purge Volume: 5.0 Operator: TMP

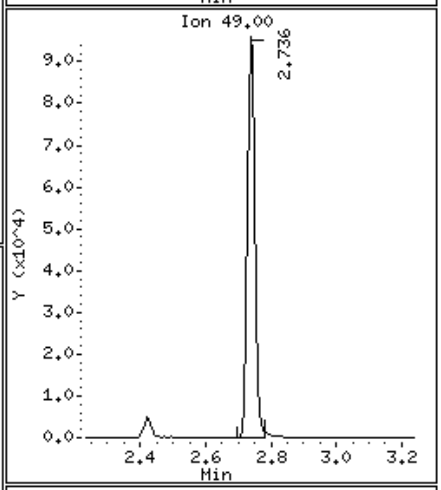
Column phase: DB-VRX Column diameter: 0.25

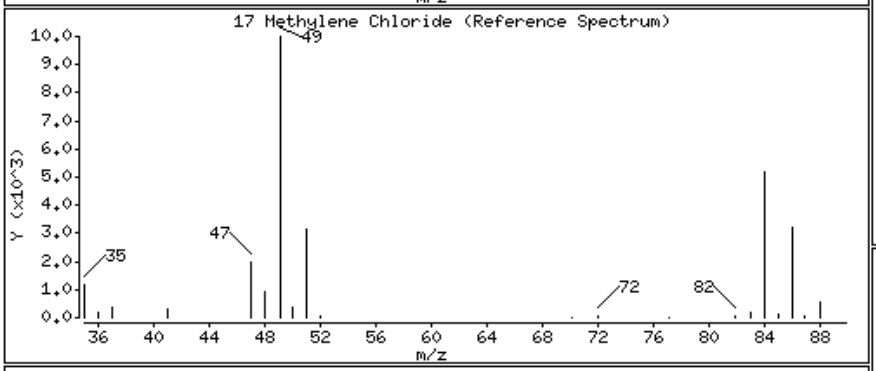
17 Methylene Chloride Concentration: 1666.78 ug/L

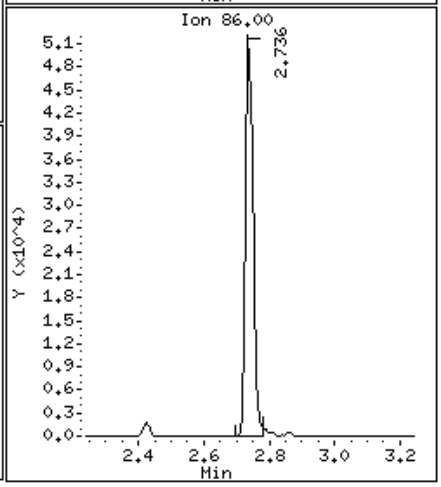


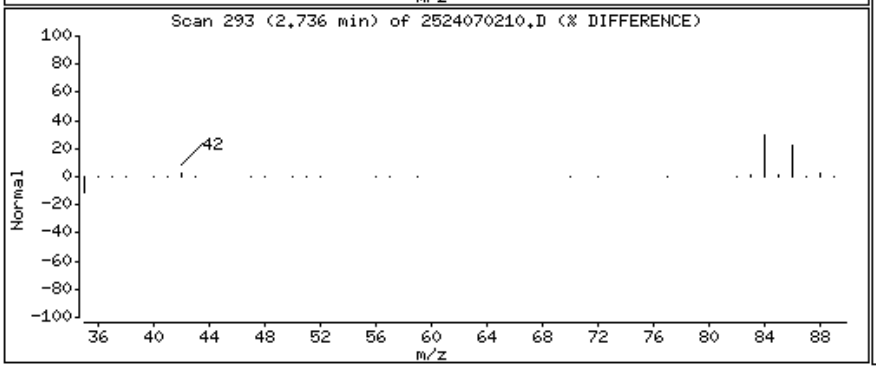












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D Page 6

Date : 02-JUL-2024 13:12

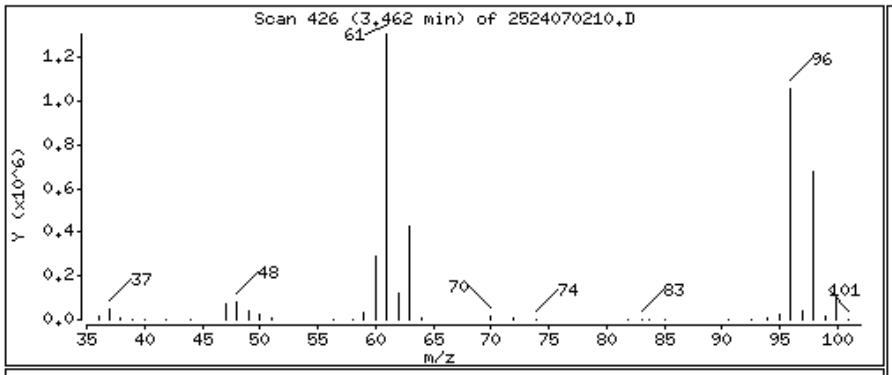
Client ID: ICT12D_062024 Instrument: ms25.i

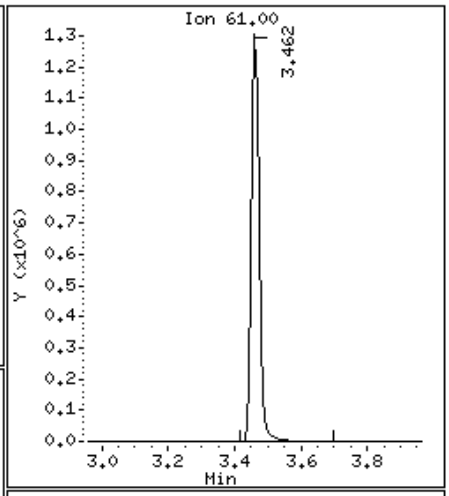
Sample Info: 3366026009;;1;;;;;100

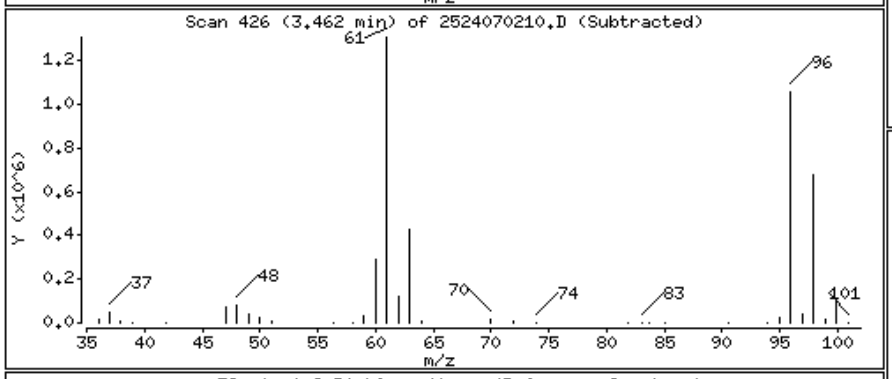
Purge Volume: 5.0 Operator: TMP

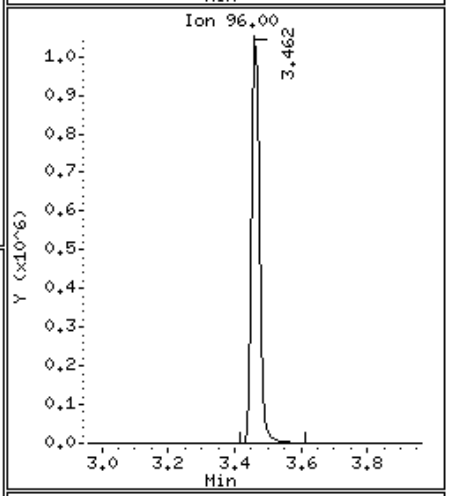
Column phase: DB-VRX Column diameter: 0.25

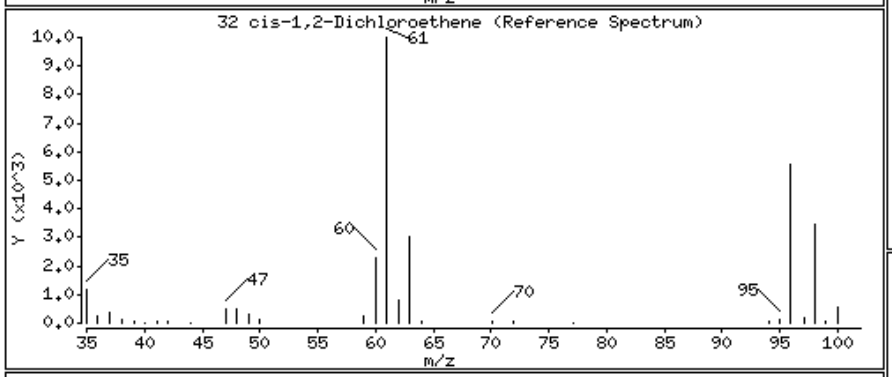
32 cis-1,2-Dichloroethene Concentration: 22392.9 ug/L

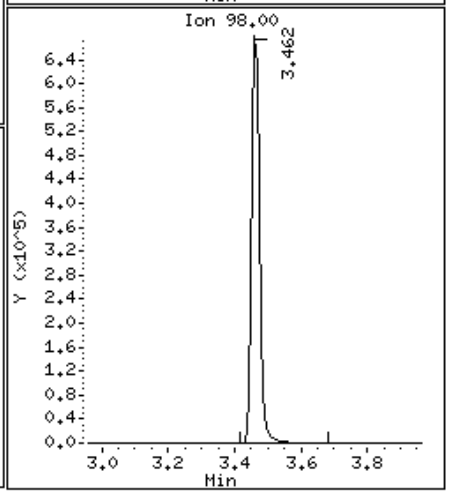


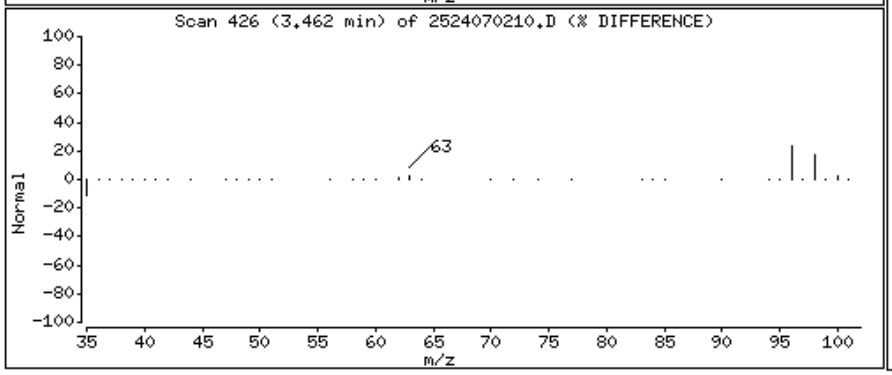












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D Page 7

Date : 02-JUL-2024 13:12

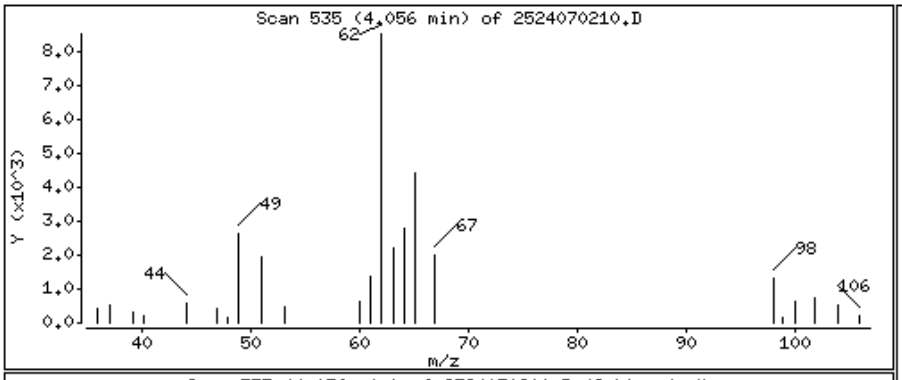
Client ID: ICT12D_062024 Instrument: ms25.i

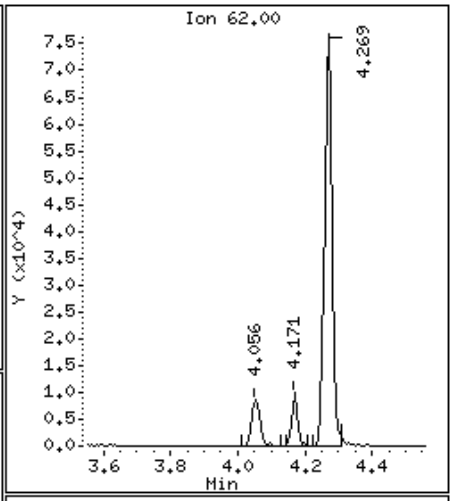
Sample Info: 3366026009;;1;;;;;100

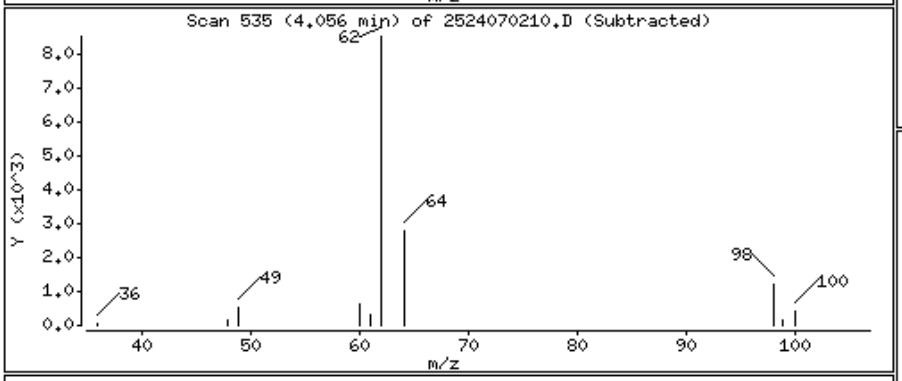
Purge Volume: 5.0 Operator: TMP

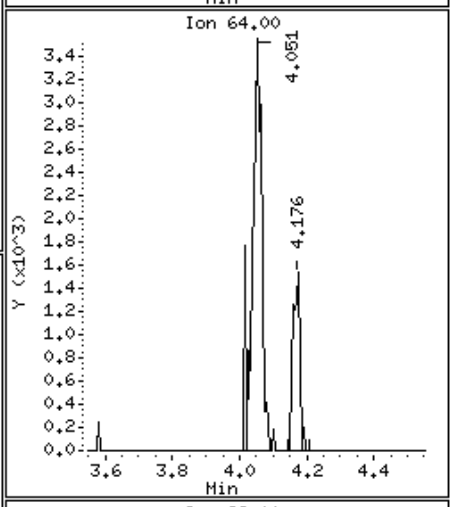
Column phase: DB-VRX Column diameter: 0.25

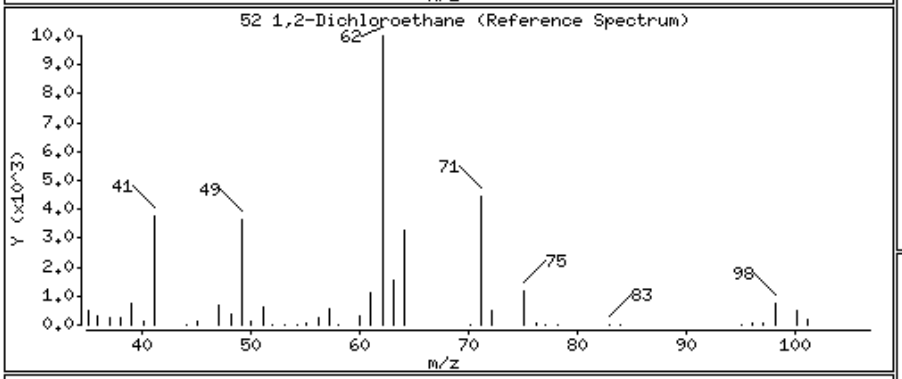
52 1,2-Dichloroethane Concentration: 154.839 ug/L

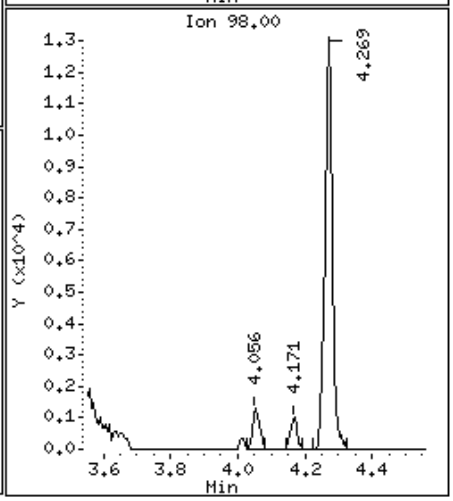


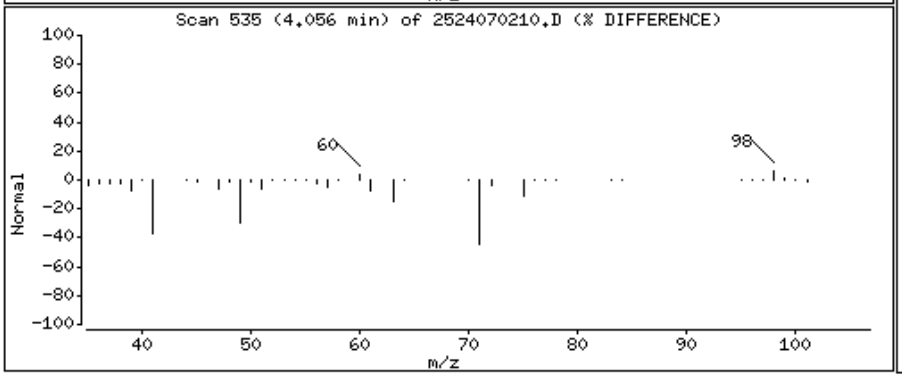












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D Page 8

Date : 02-JUL-2024 13:12

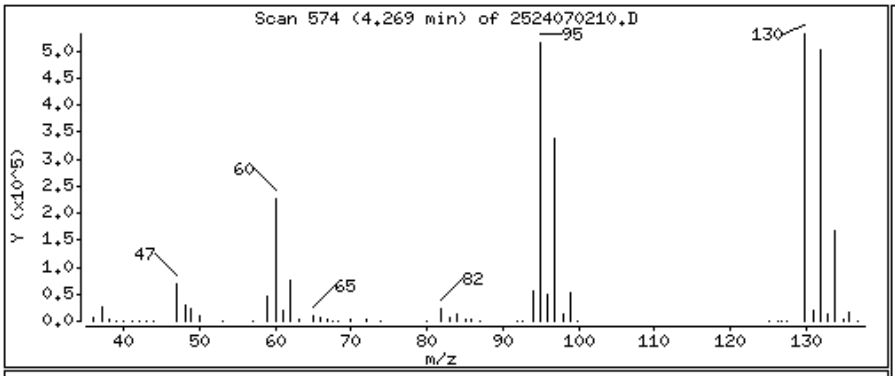
Client ID: ICT12D_062024 Instrument: ms25.i

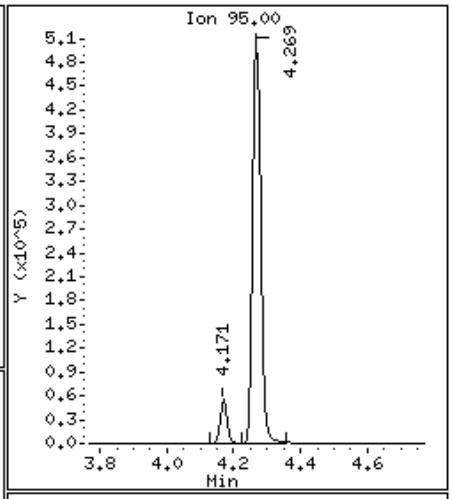
Sample Info: 3366026009;;1;;;;;100

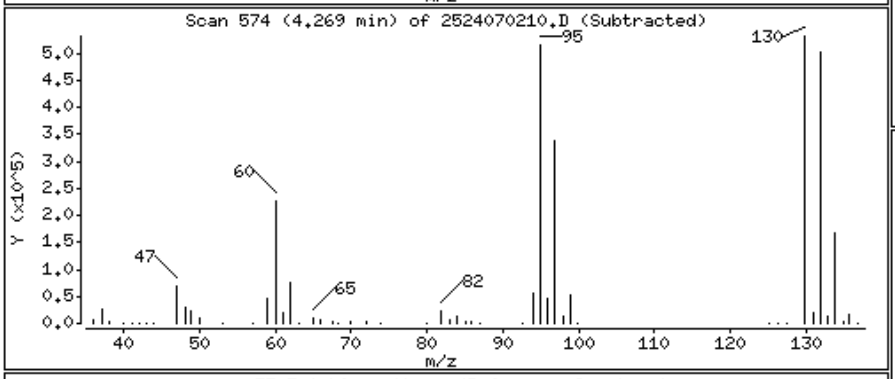
Purge Volume: 5.0 Operator: TMP

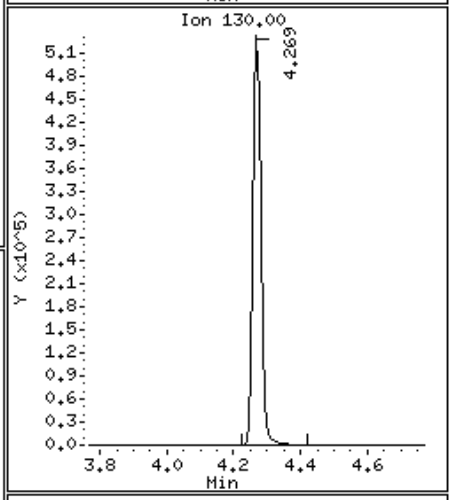
Column phase: DB-VRX Column diameter: 0.25

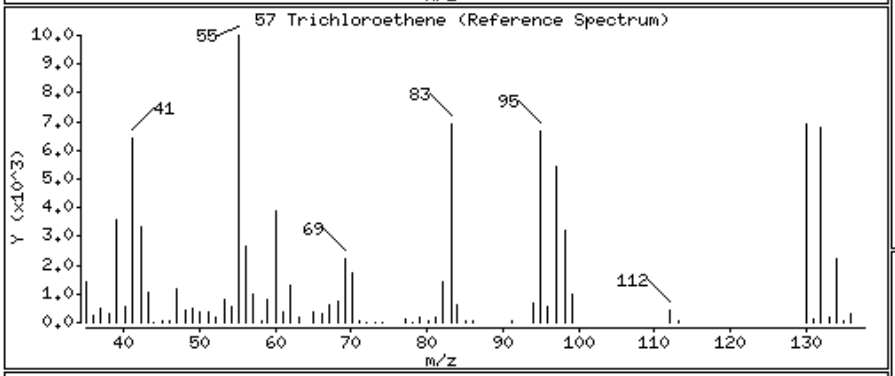
57 Trichloroethene Concentration: 10856.6 ug/L

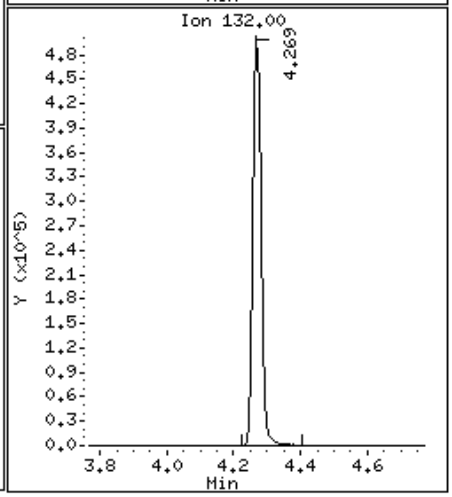


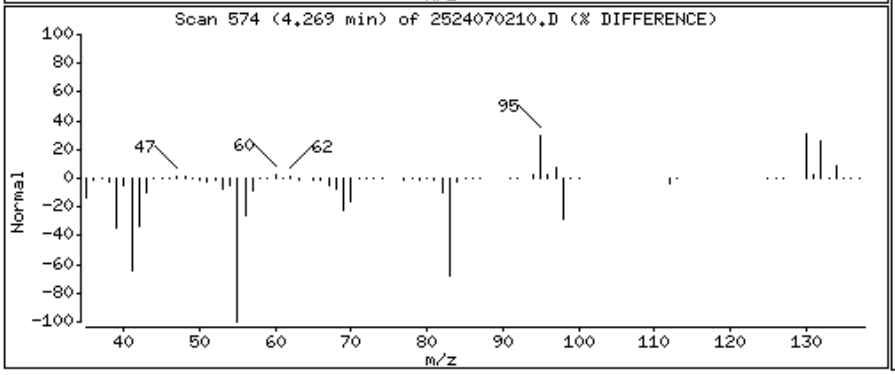












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070210.D
Inj Date : 02-JUL-2024 13:12
InstruID : ms25.i
LabSampID : 3366026009

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:39
Client ID: ICT12D_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407021
Inj Date: 02-JUL-2024 13:12
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
tert-Amyl Alcohol
Bromodichloromethane
1-Chlorobutane
1,1-Dichloro-2-propanone
Dichlorofluoromethane
Heptane
2-Nitropropane
Trichlorofluoromethane
tert-amyl methyl Ether
tert-Amyl Ethylether
2-Butanone
1-Chlorohexane
trans-1,2-Dichloroethene
Ethyl methacrylate
Methyl cyclohexane
1,1,1-Trichloroethane

Data File: 2524070211.D Page 1
Report Date: 09-Jul-2024 12:42

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D
Lab Smp Id: 3366026004 Client Smp ID: ICT8_062024
Inj Date : 02-JUL-2024 13:33
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026004;;1;;;;;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	1175698	106.050	106.050	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	579005	67.9090	67.9090(Q)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.414	2.424	(0.579)	22534804	3757.70	3757.70(AQ)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.741	2.741	(0.657)	7622174	1094.42	1094.42(A)	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070211.D
Report Date: 09-Jul-2024 12:42

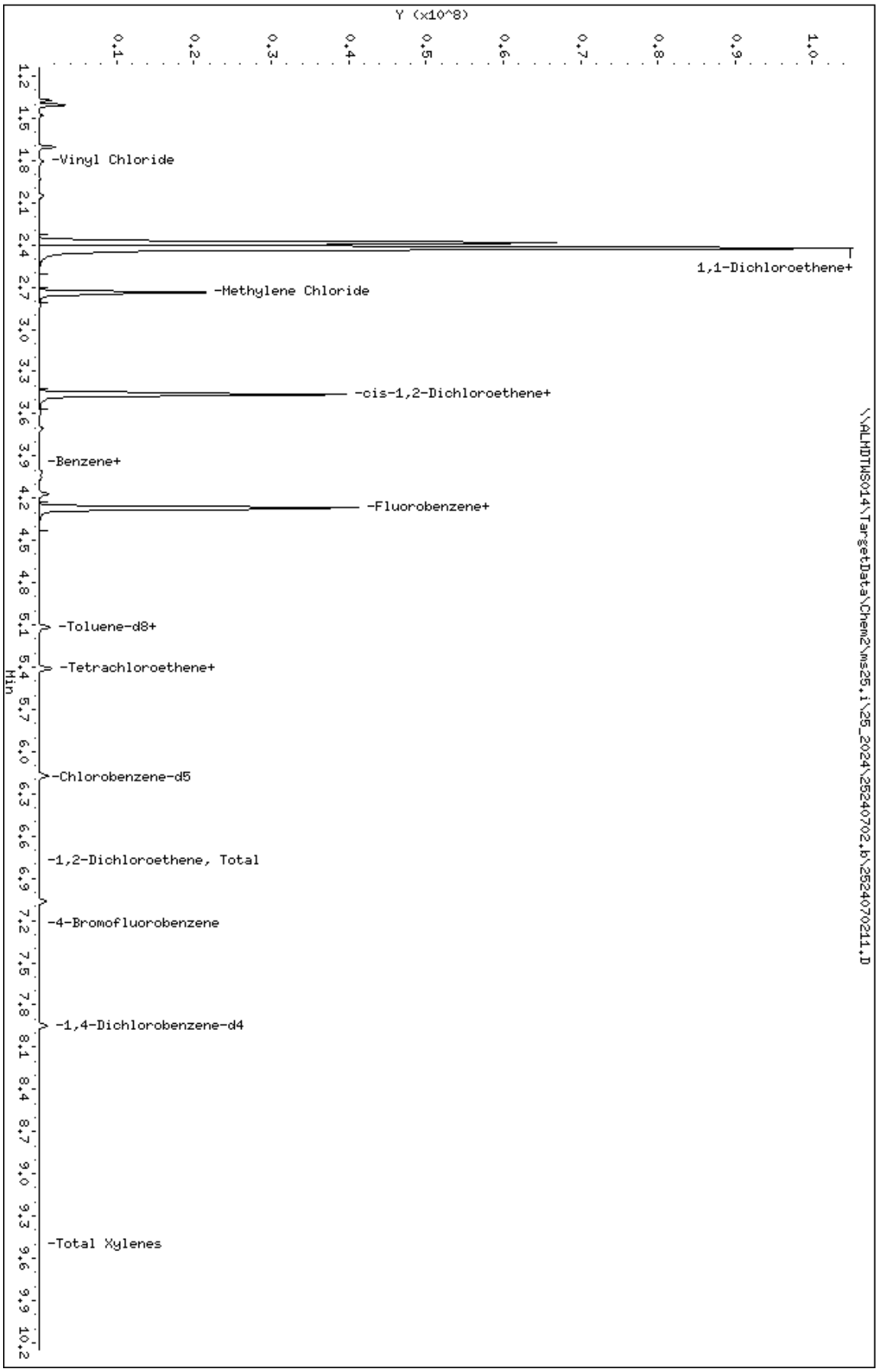
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.456	3.461	(0.829)	14584012	1722.38	1722.38(A)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				14584012	1722.38	1722.38	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	3.592	3.587	(0.861)	25661	2.52573	2.52573	
	36 Chloroform	83	3.603	3.598	(0.864)	40022	3.25861	3.25861(QM)	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	7473	1.23631	1.23631	
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.701	(0.889)	207523	29.6752	29.6752	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	3.941	3.941	(0.945)	34905	1.25586	1.25586	
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	249256	33.8119	33.8119	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	180915	20.7062	20.7062	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	886294	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	10159370	1444.27	1444.27(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	819106	30.7630	30.7630	
	69 Toluene	92	5.153	5.153	(0.835)	13517	0.80095	0.800945(a)	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	316056	51.4309	51.4309	
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070211.D Page 3
Report Date: 09-Jul-2024 12:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	2940	0.56700	0.567003(aQH)	
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	336307	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	234986	30.8663	30.8663	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	275188	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 02-JUL-2024 13:33
Client ID: ICT8_062024
Sample Info: 33660260004;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 2

Date : 02-JUL-2024 13:33

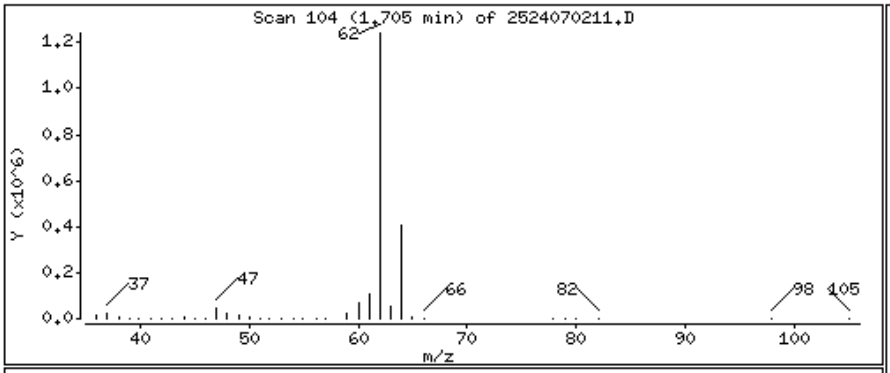
Client ID: ICT8_062024 Instrument: ms25.i

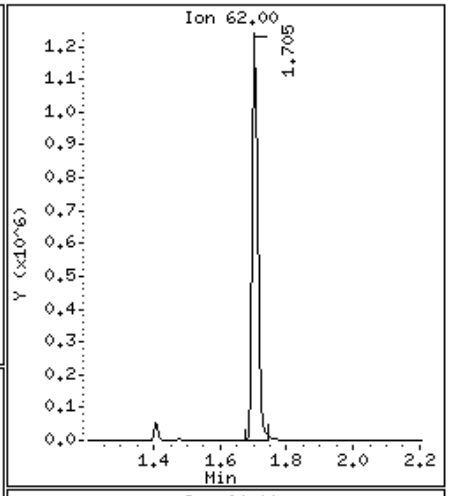
Sample Info: 3366026004;;1;;;;;

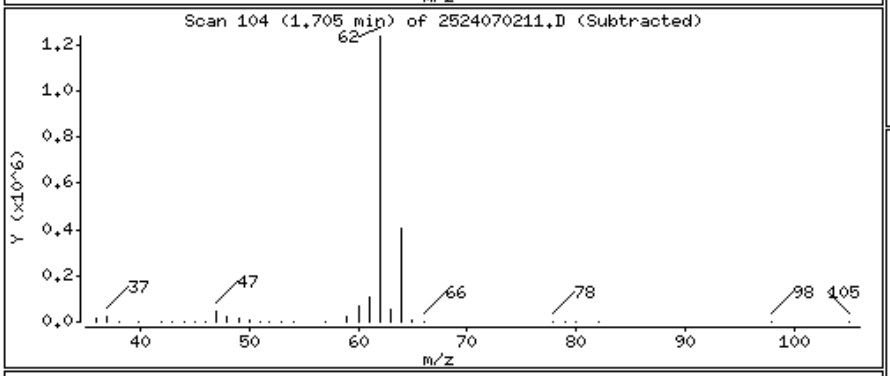
Purge Volume: 5.0 Operator: TMP

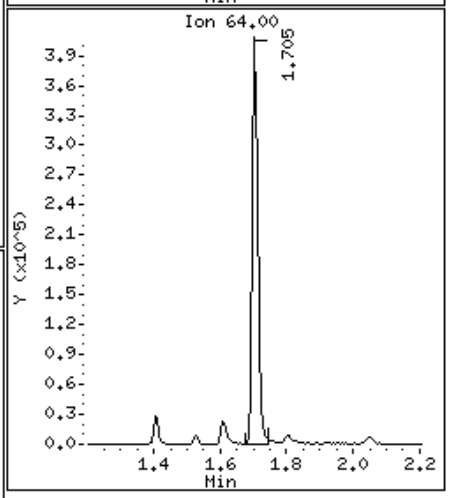
Column phase: DB-VRX Column diameter: 0.25

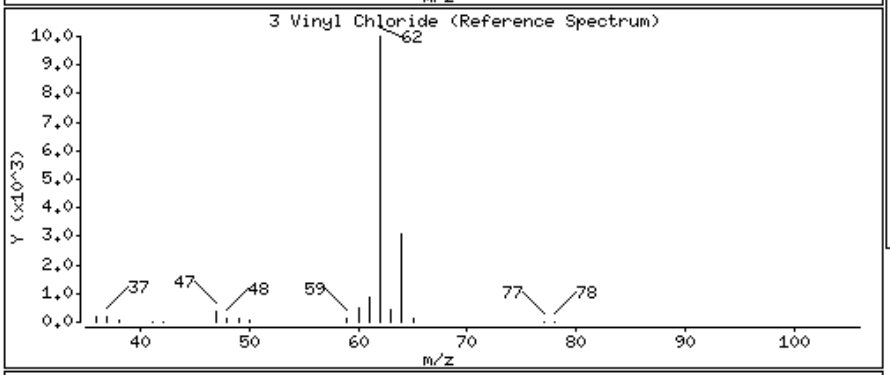
3 Vinyl Chloride Concentration: 106.050 ug/L

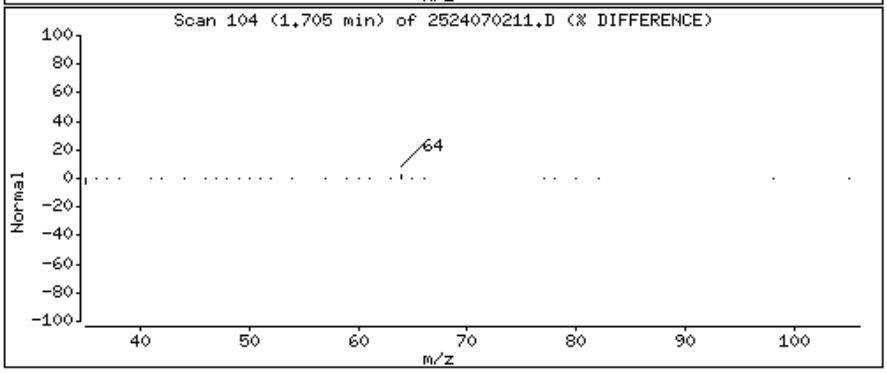












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 3

Date : 02-JUL-2024 13:33

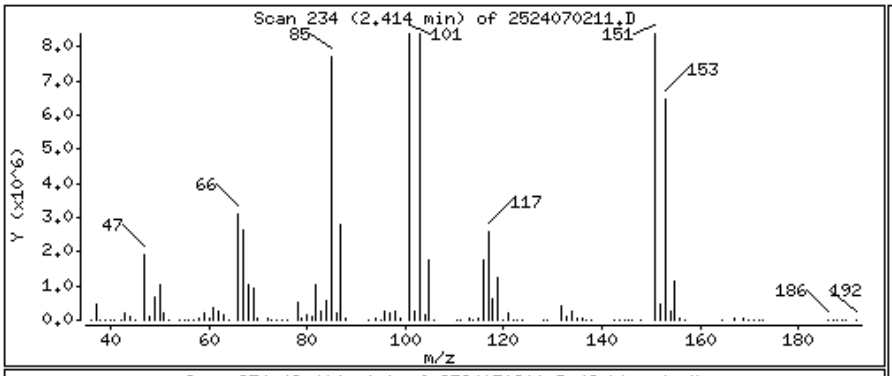
Client ID: ICT8_062024 Instrument: ms25.i

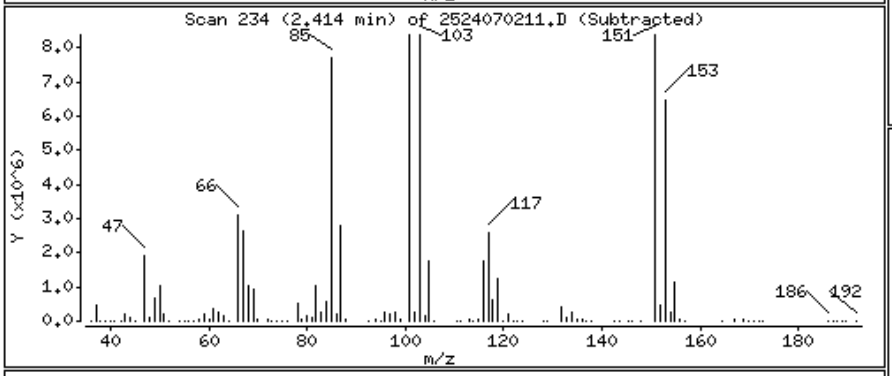
Sample Info: 3366026004;;1;;;;;

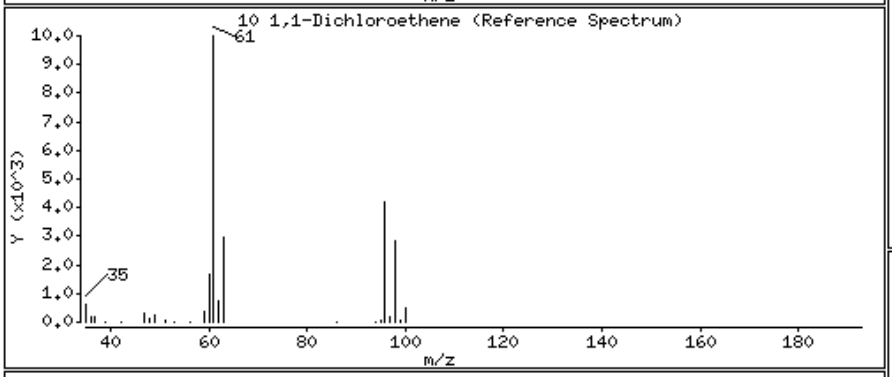
Purge Volume: 5.0 Operator: TMP

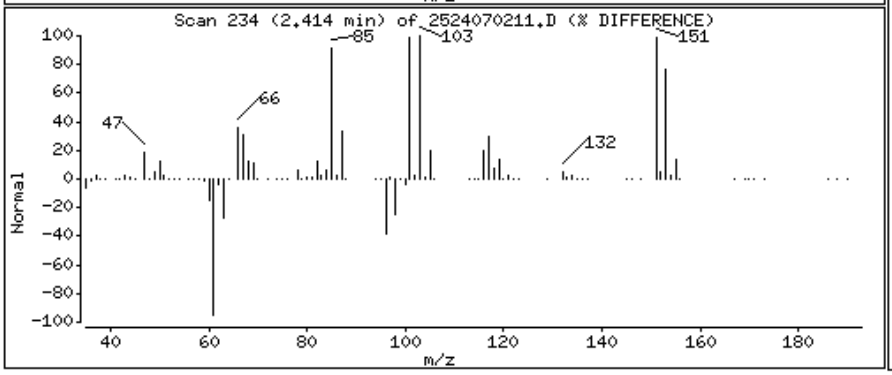
Column phase: DB-VRX Column diameter: 0.25

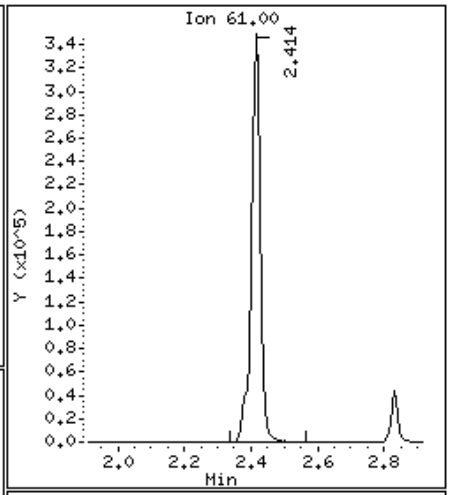
10 1,1-Dichloroethene Concentration: 67.9090 ug/L

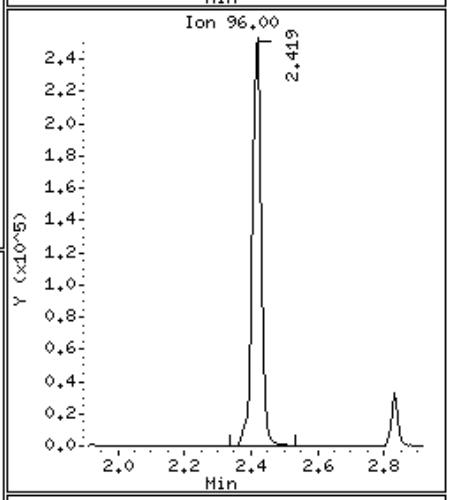


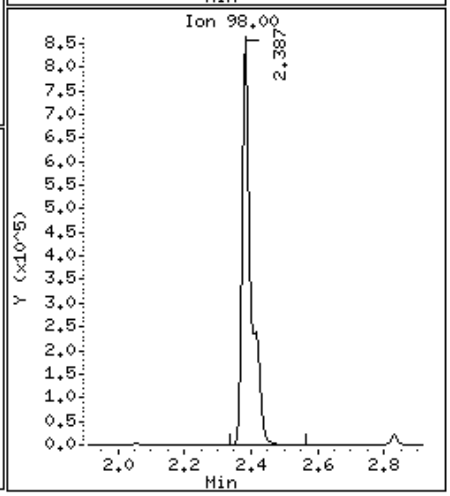












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 4

Date : 02-JUL-2024 13:33

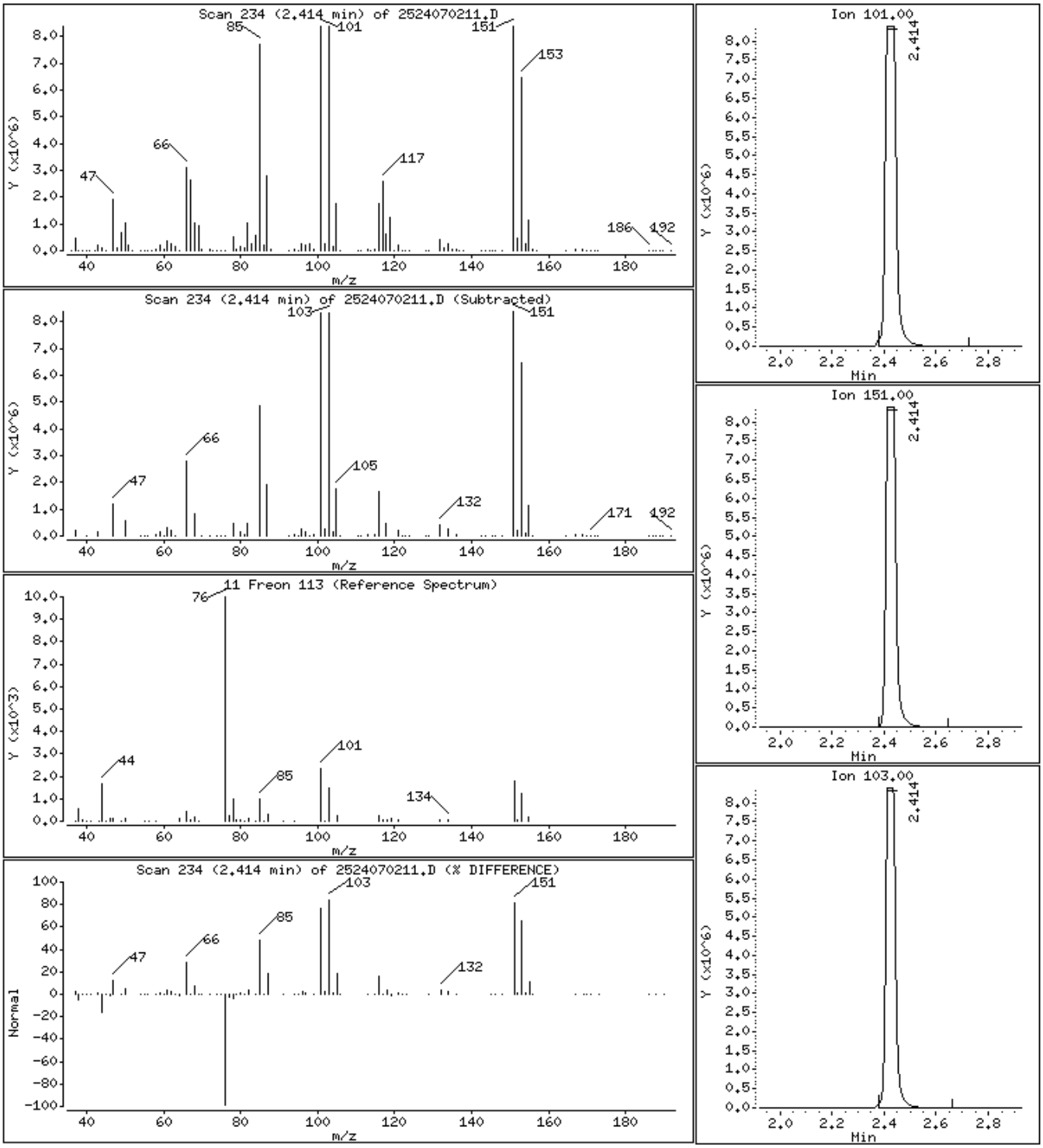
Client ID: ICT8_062024 Instrument: ms25.i

Sample Info: 3366026004;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 3757.70 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 5

Date : 02-JUL-2024 13:33

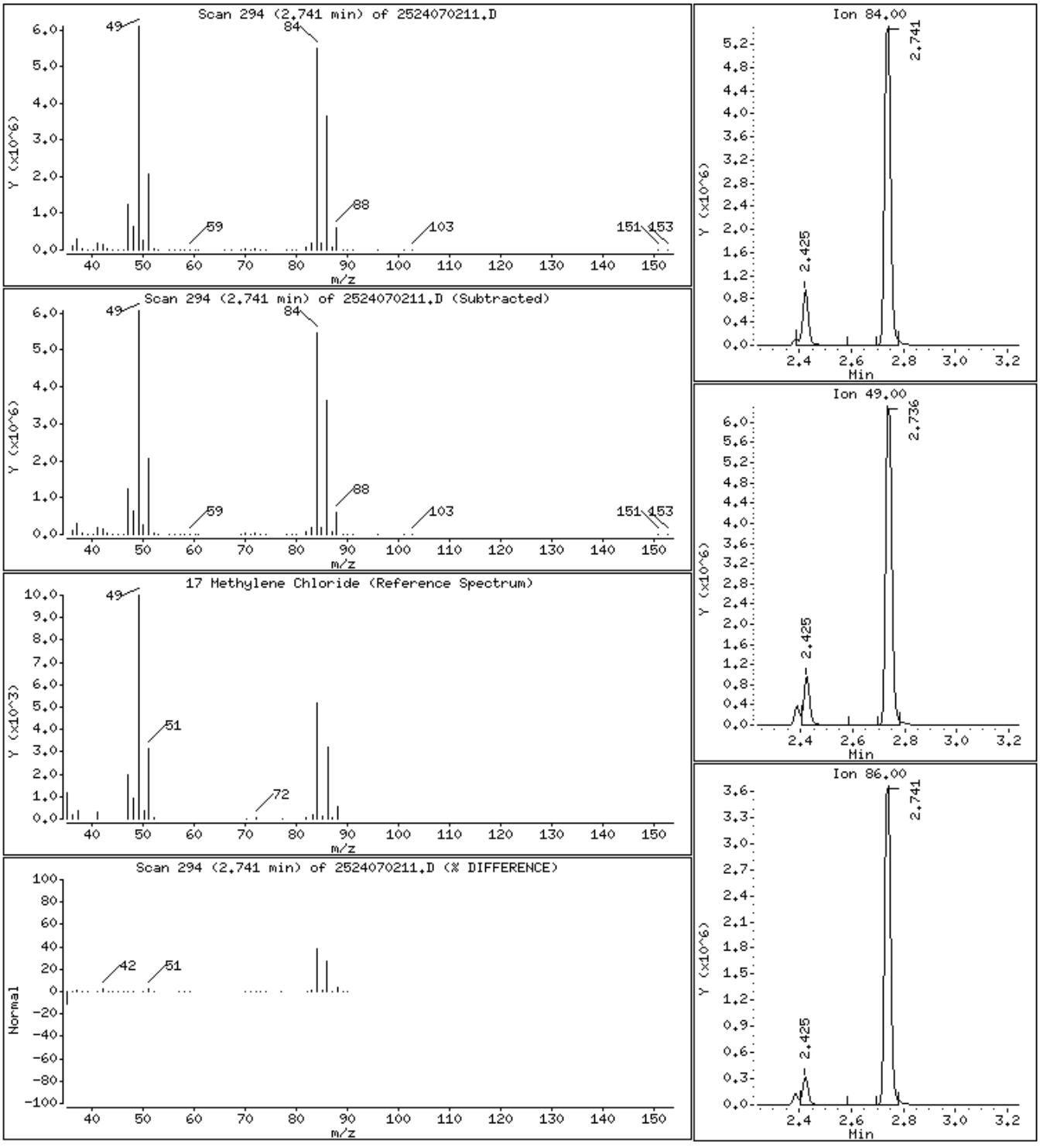
Client ID: ICT8_062024 Instrument: ms25.i

Sample Info: 3366026004;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

17 Methylene Chloride Concentration: 1094.42 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 6

Date : 02-JUL-2024 13:33

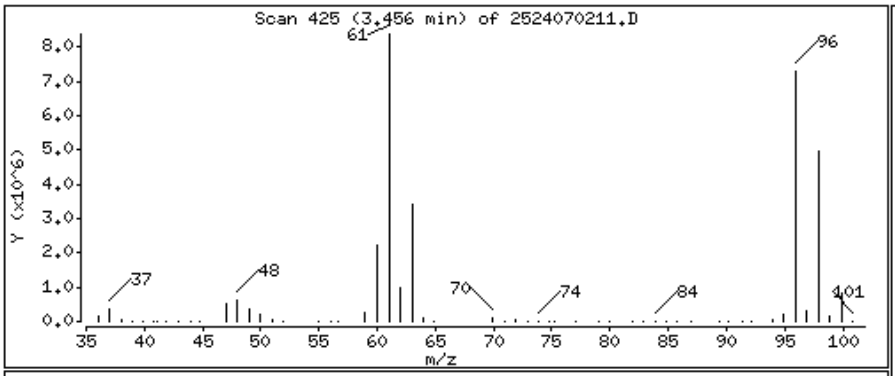
Client ID: ICT8_062024 Instrument: ms25.i

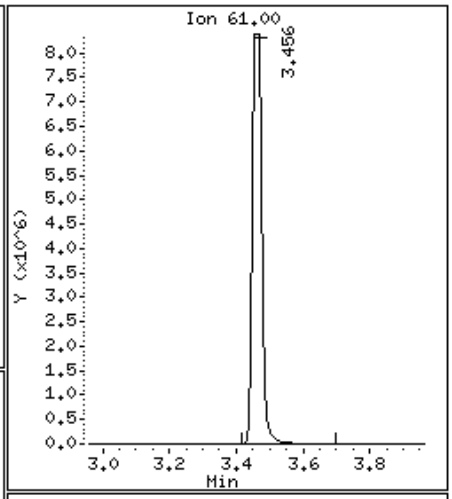
Sample Info: 3366026004;;1;;;;;

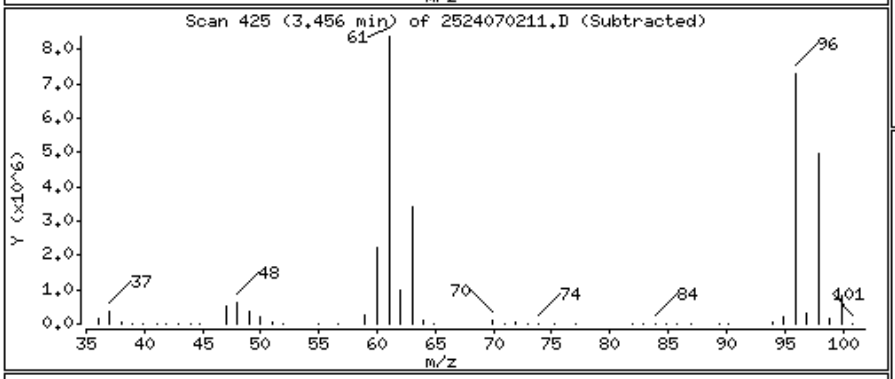
Purge Volume: 5.0 Operator: TMP

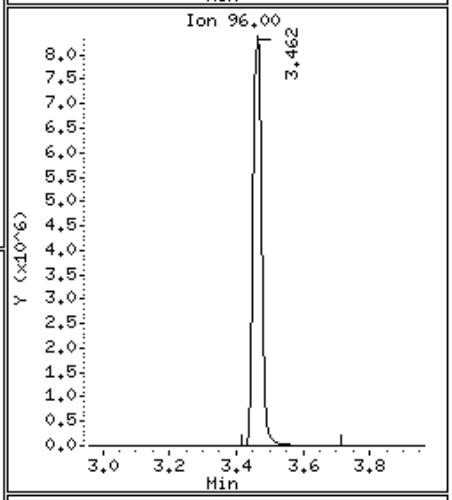
Column phase: DB-VRX Column diameter: 0.25

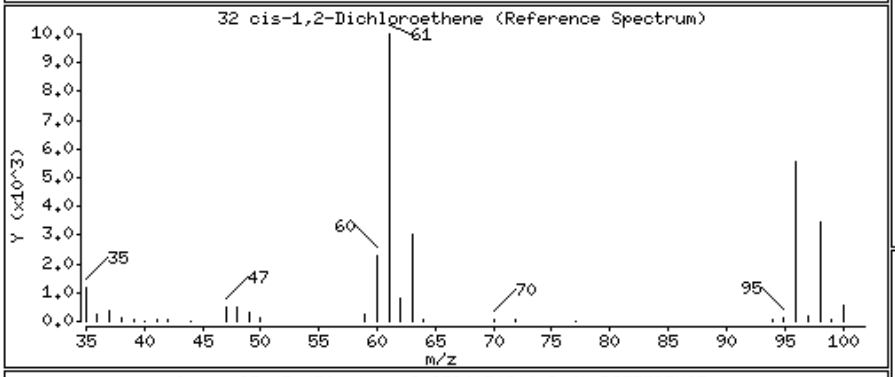
32 cis-1,2-Dichloroethene Concentration: 1722.38 ug/L

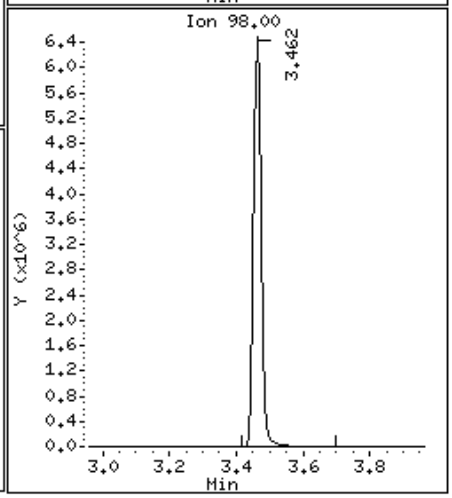


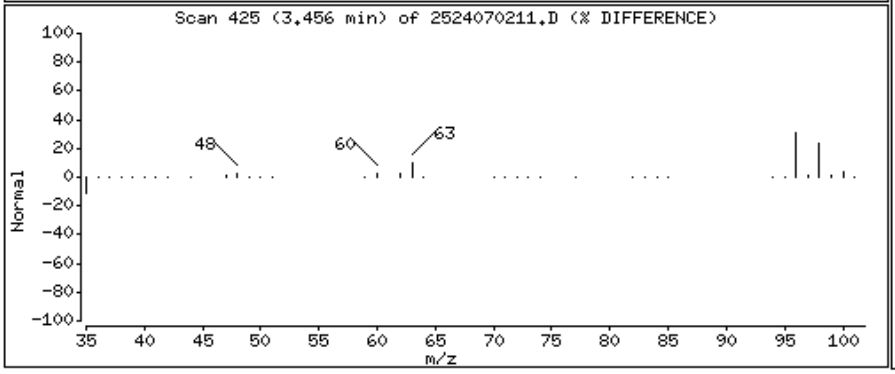












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 7

Date : 02-JUL-2024 13:33

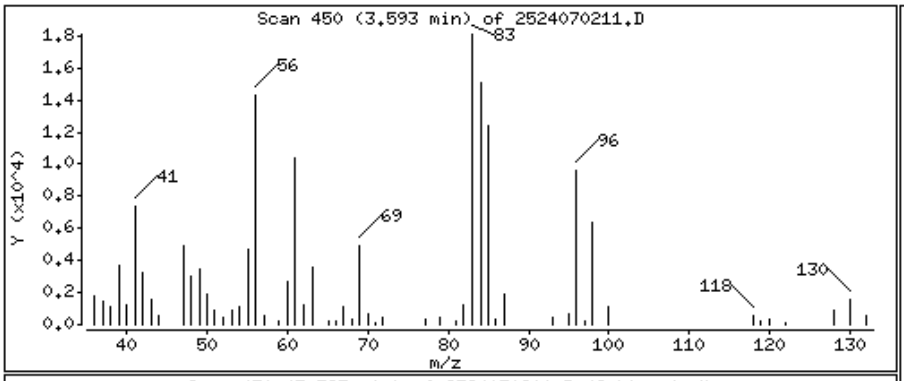
Client ID: ICT8_062024 Instrument: ms25.i

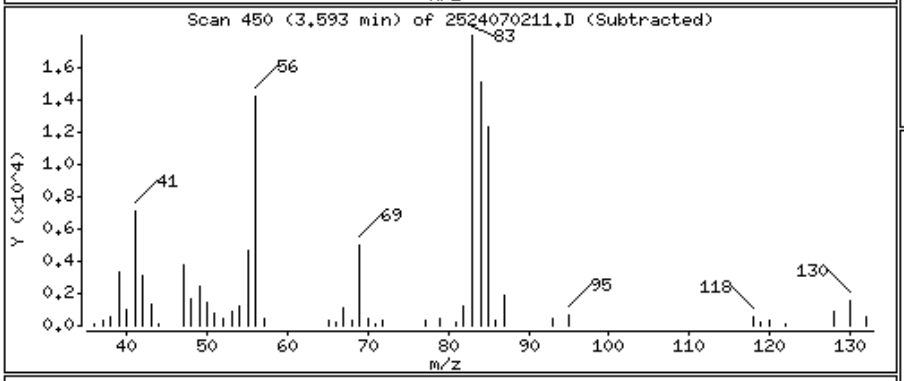
Sample Info: 3366026004;;1;;;;;

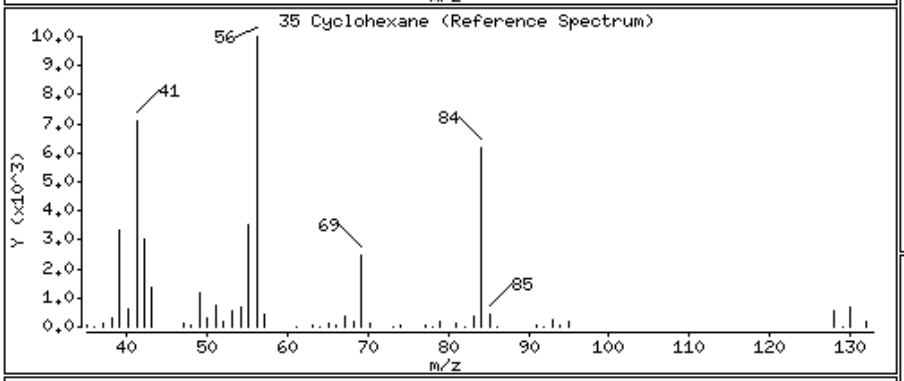
Purge Volume: 5.0 Operator: TMP

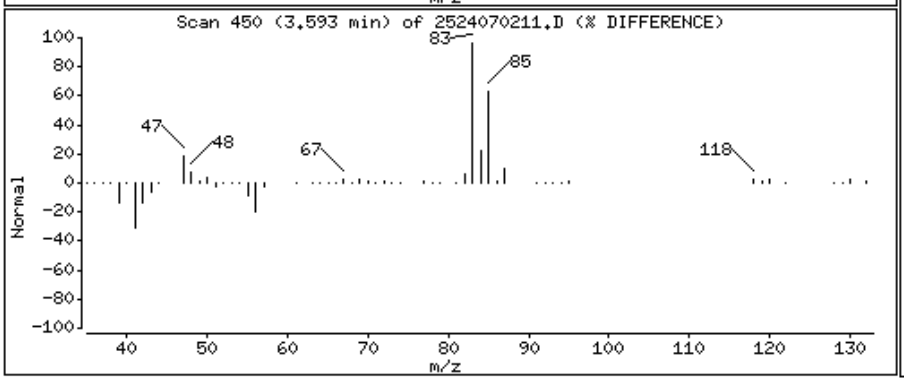
Column phase: DB-VRX Column diameter: 0.25

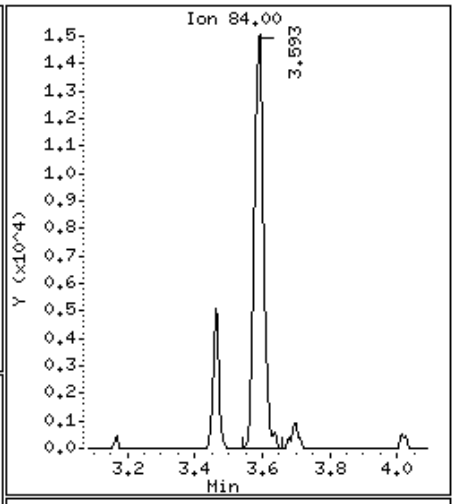
35 Cyclohexane Concentration: 2.52573 ug/L

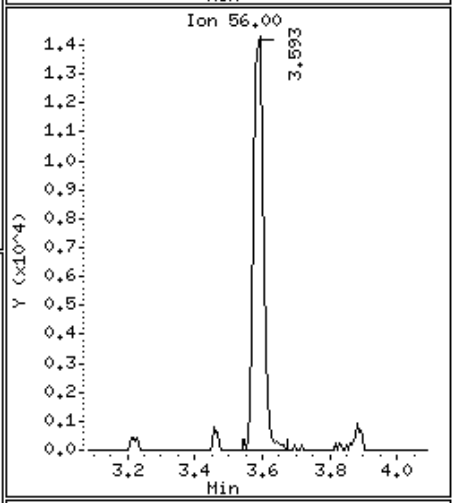


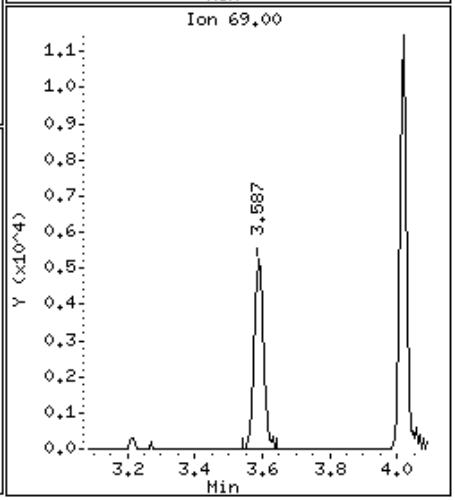












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 8

Date : 02-JUL-2024 13:33

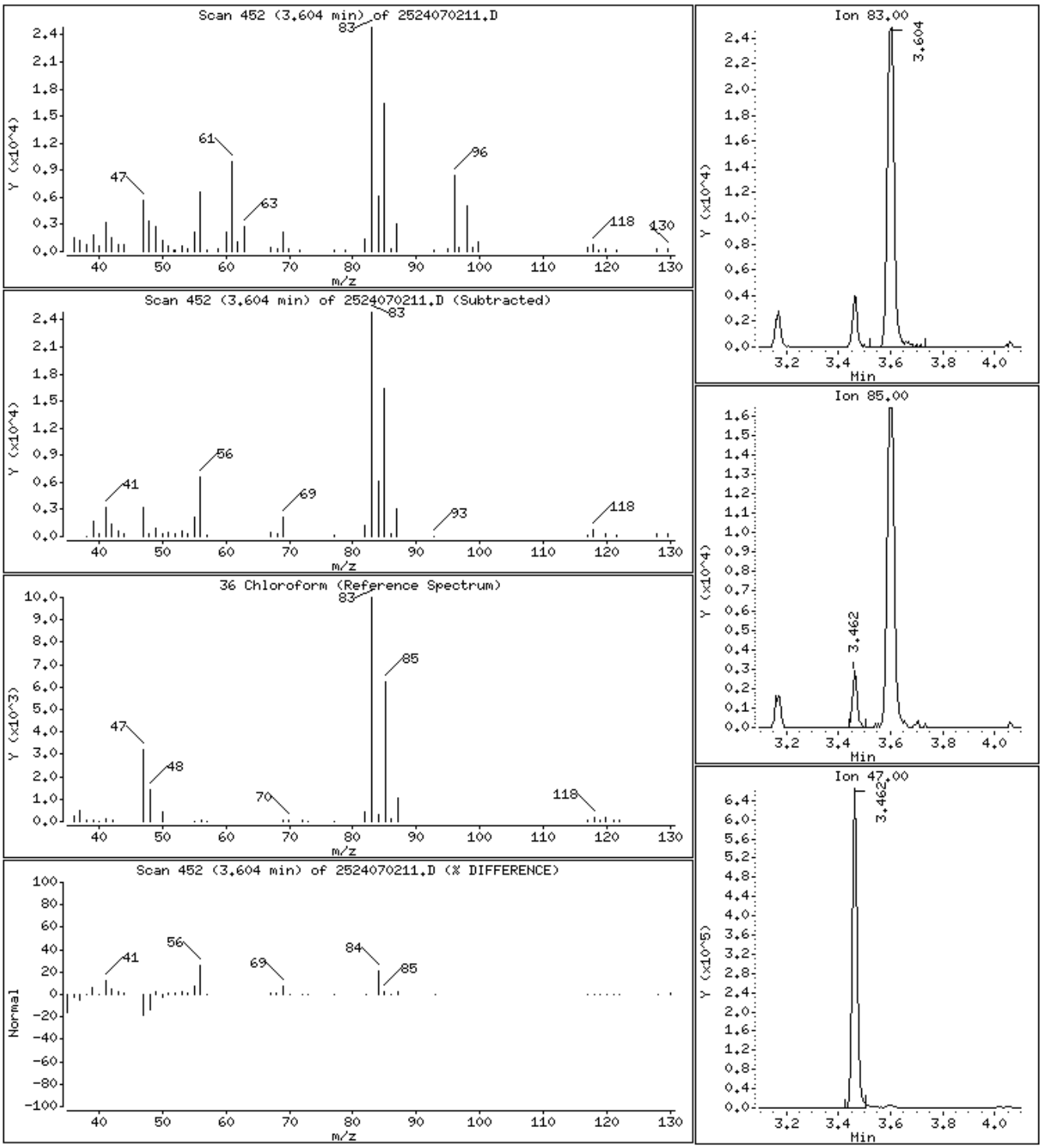
Client ID: ICT8_062024 Instrument: ms25.i

Sample Info: 3366026004;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

36 Chloroform Concentration: 3.25861 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 9

Date : 02-JUL-2024 13:33

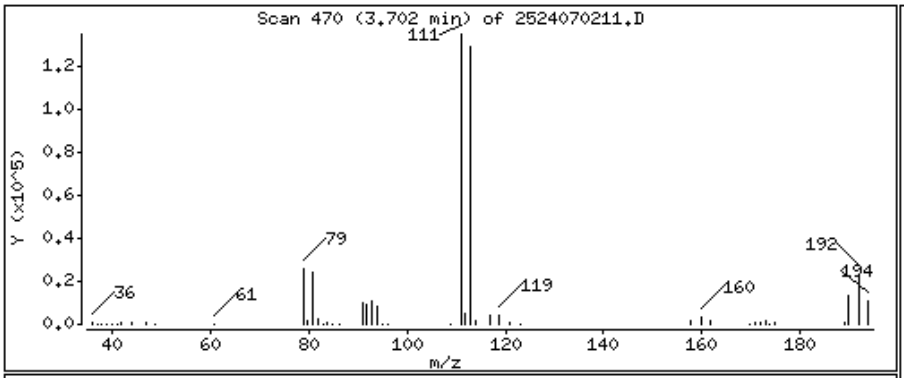
Client ID: ICT8_062024 Instrument: ms25.i

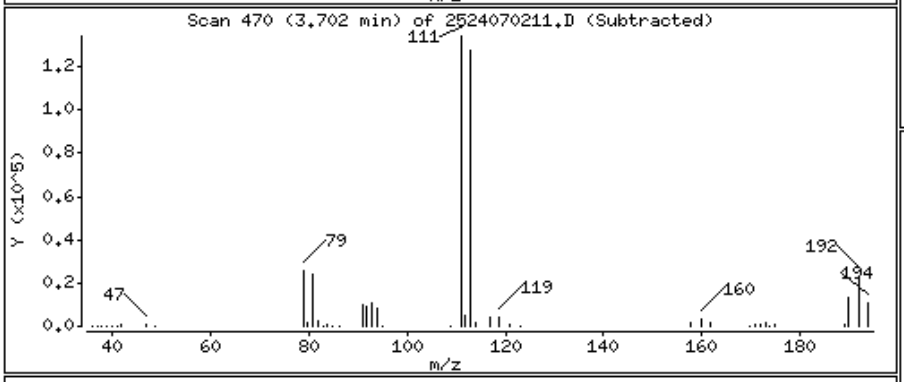
Sample Info: 3366026004;;1;;;;;

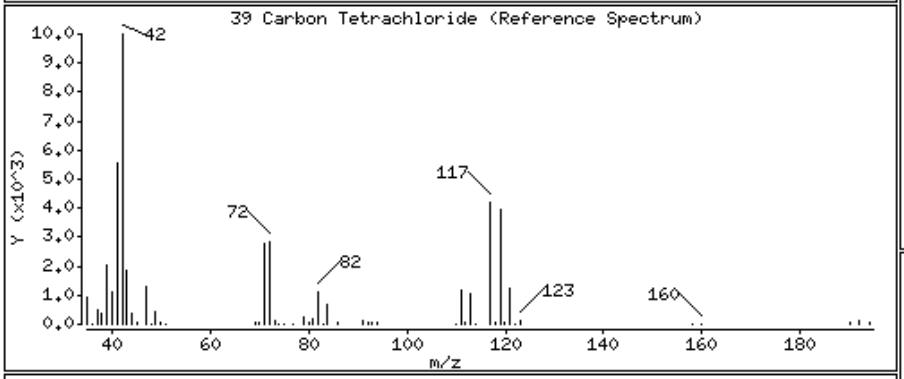
Purge Volume: 5.0 Operator: TMP

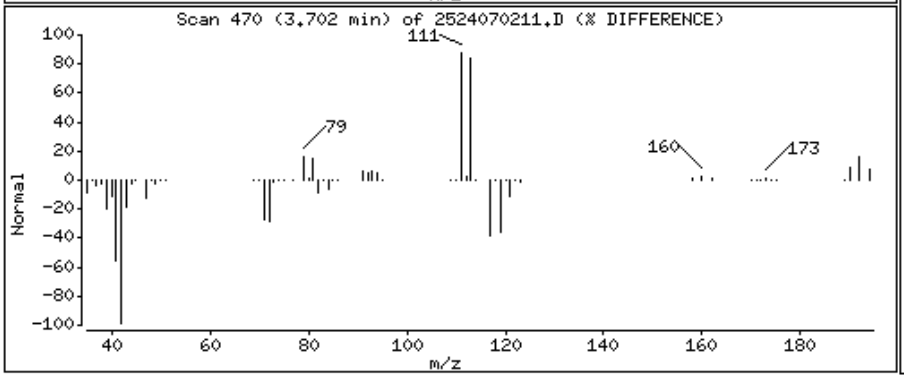
Column phase: DB-VRX Column diameter: 0.25

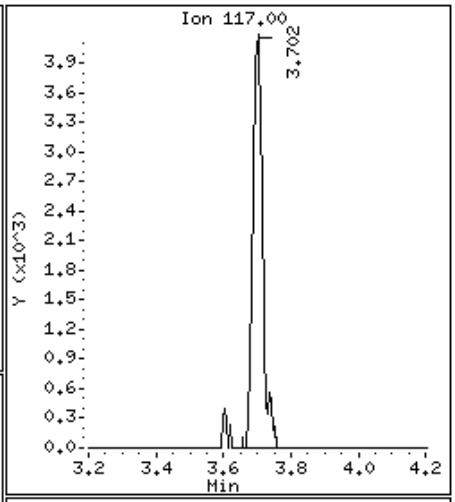
39 Carbon Tetrachloride Concentration: 1.23631 ug/L

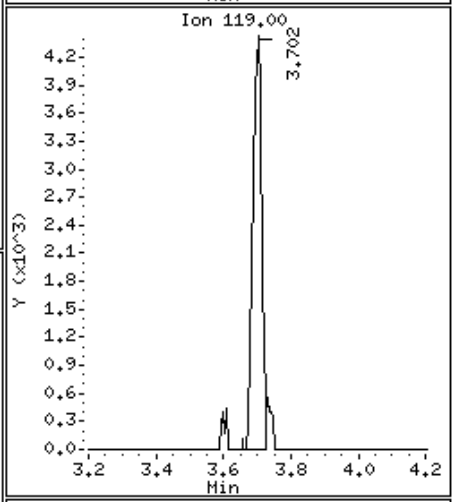


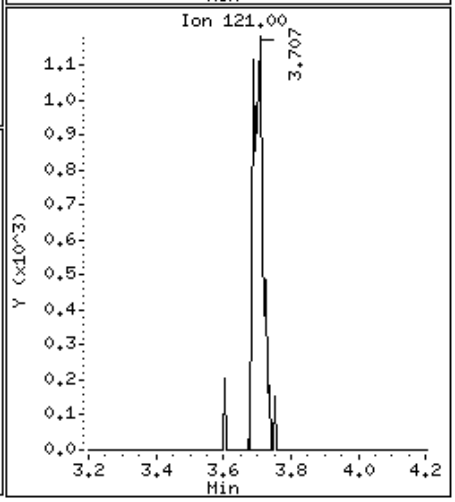












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 10

Date : 02-JUL-2024 13:33

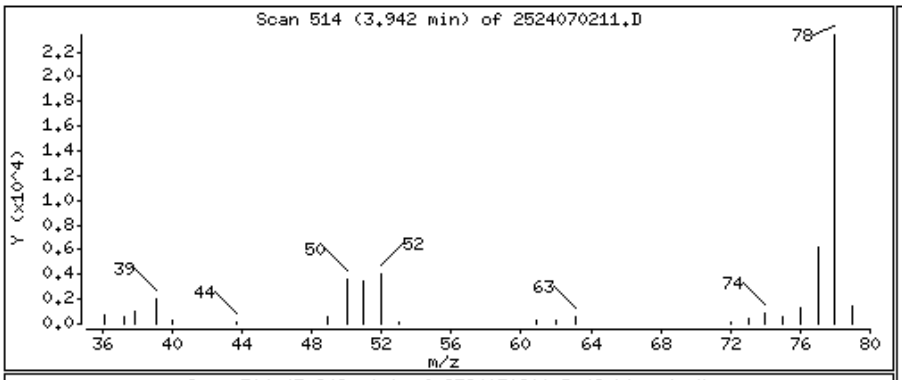
Client ID: ICT8_062024 Instrument: ms25.i

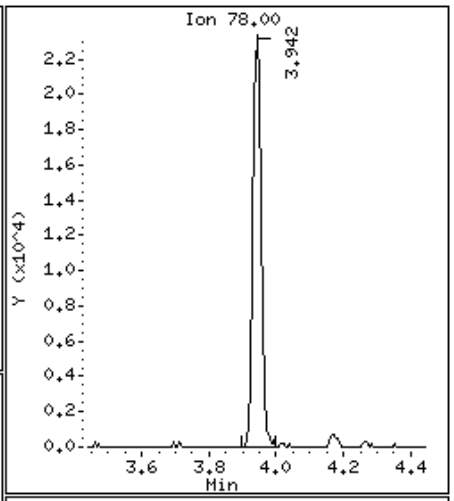
Sample Info: 3366026004;;1;;;;;

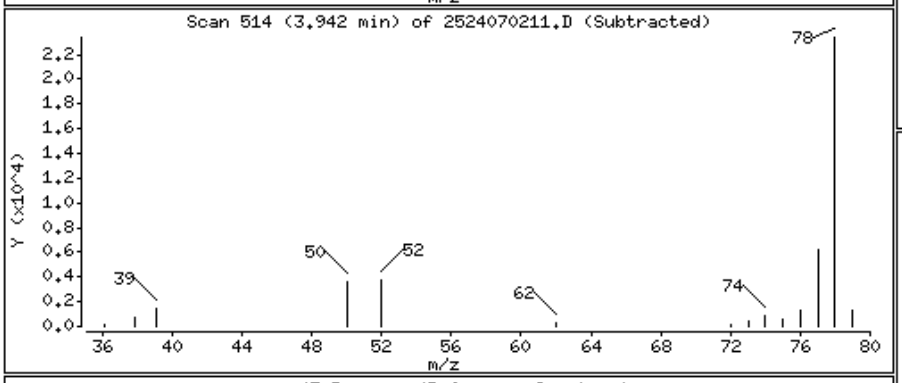
Purge Volume: 5.0 Operator: TMP

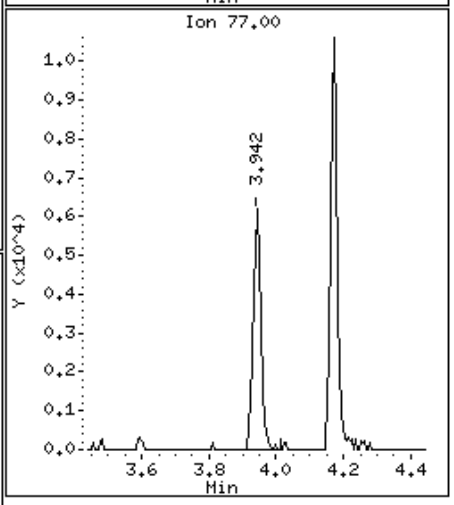
Column phase: DB-VRX Column diameter: 0.25

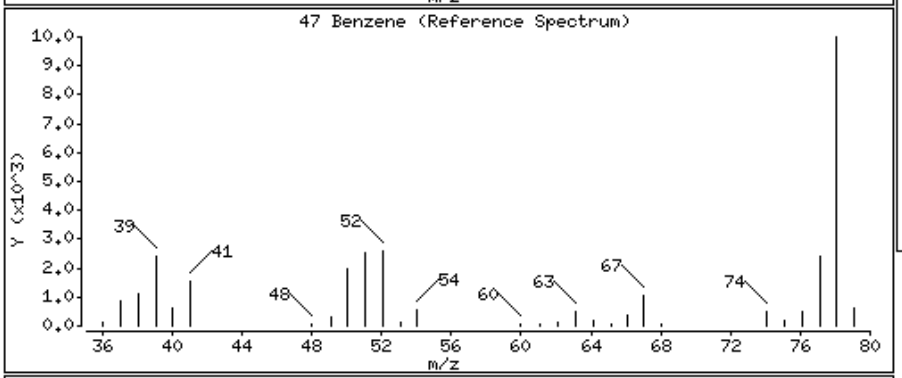
47 Benzene Concentration: 1.25586 ug/L

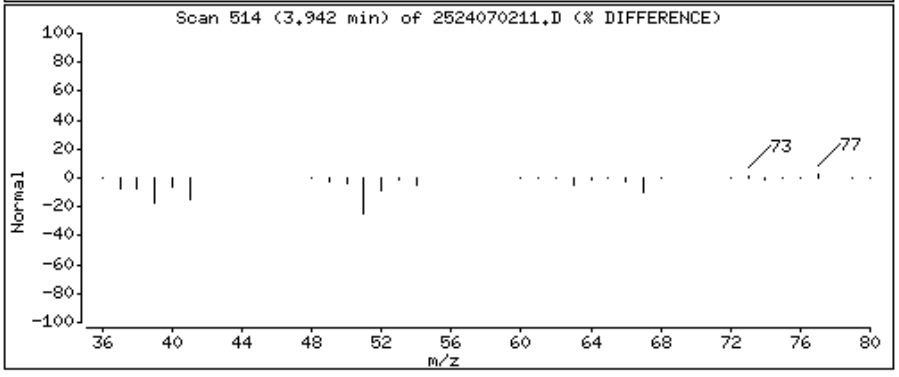












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 11

Date : 02-JUL-2024 13:33

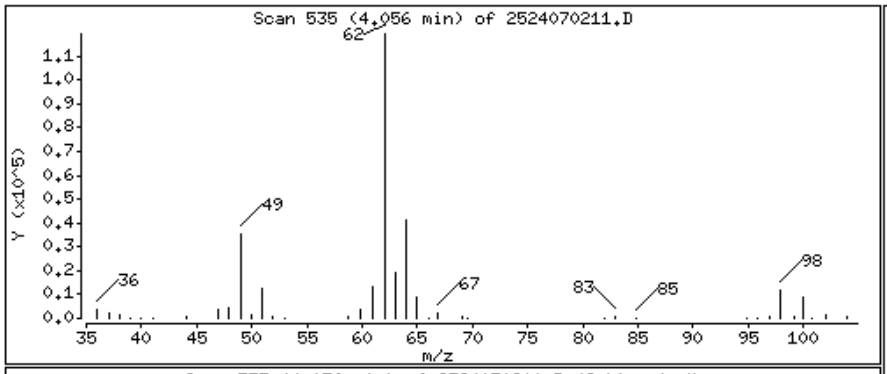
Client ID: ICT8_062024 Instrument: ms25.i

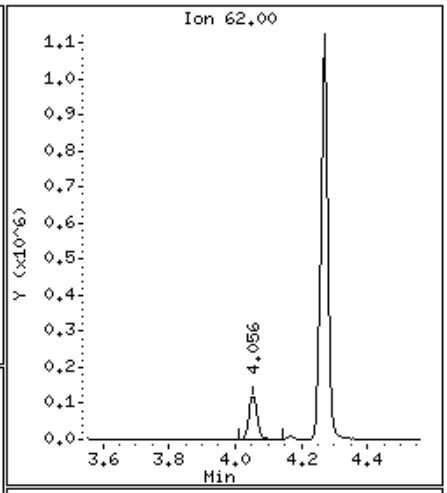
Sample Info: 3366026004;;1;;;;;

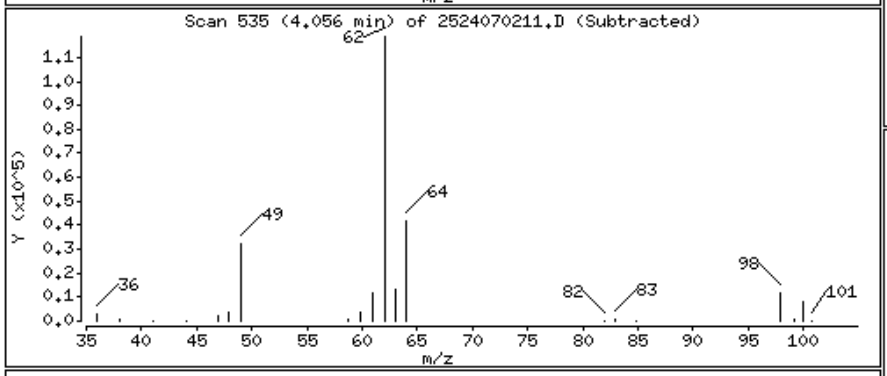
Purge Volume: 5.0 Operator: TMP

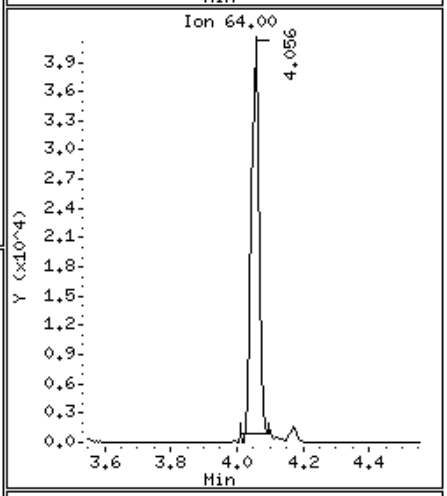
Column phase: DB-VRX Column diameter: 0.25

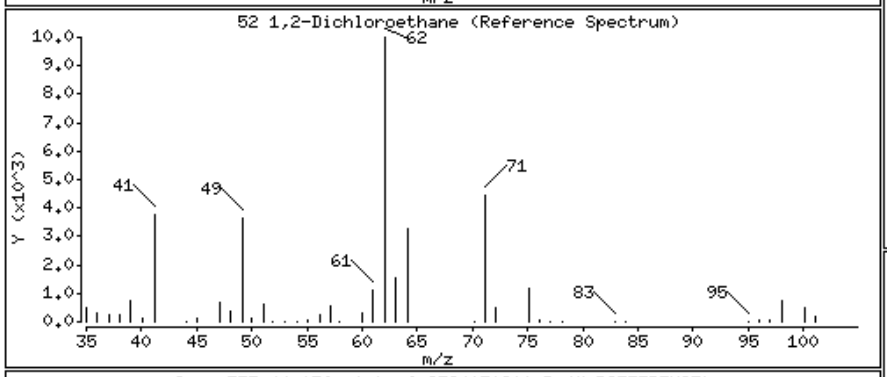
52 1,2-Dichloroethane Concentration: 20.7062 ug/L

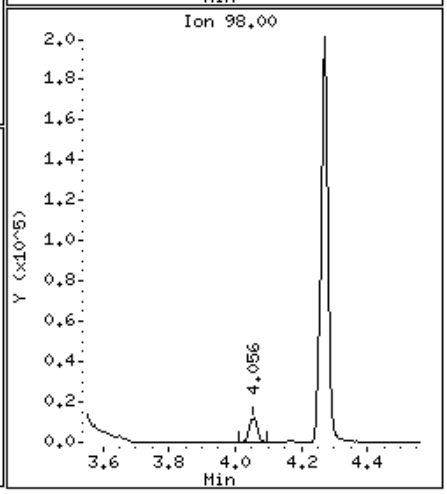


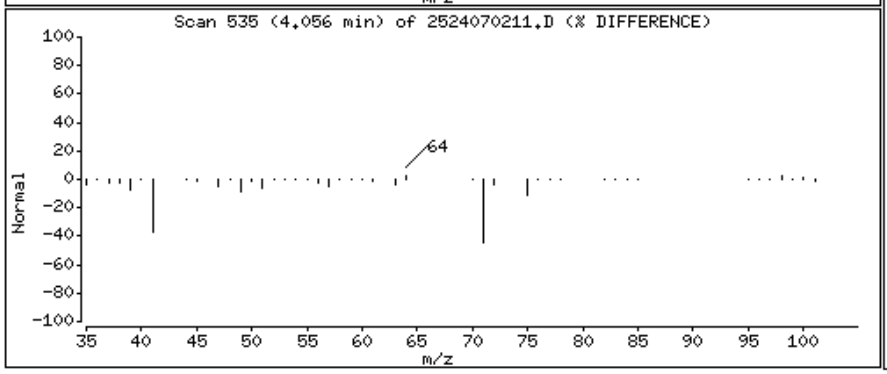












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 12

Date : 02-JUL-2024 13:33

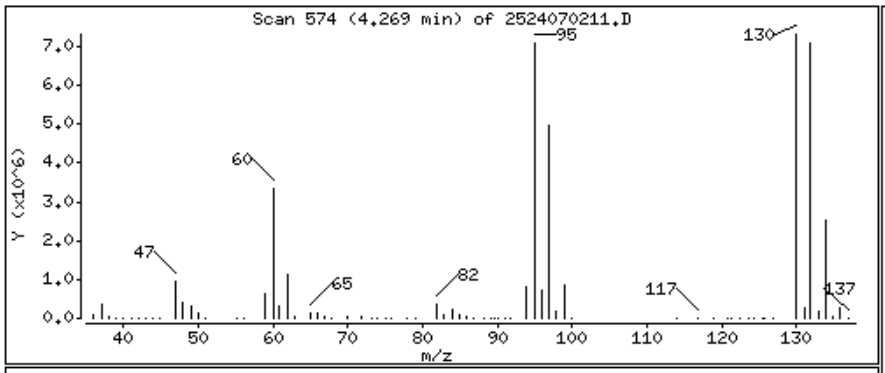
Client ID: ICT8_062024 Instrument: ms25.i

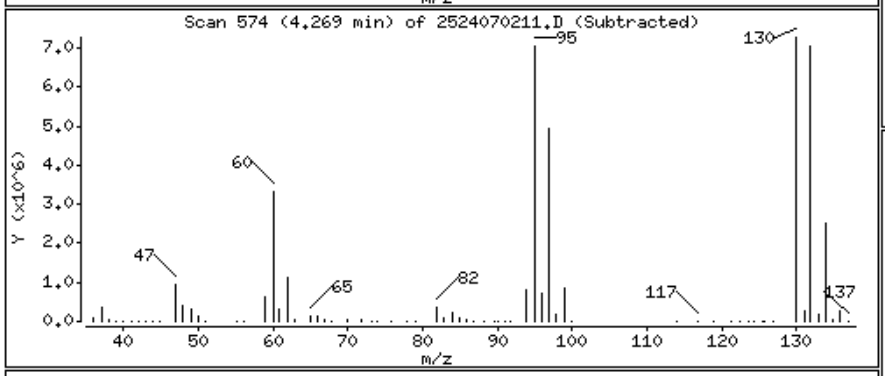
Sample Info: 3366026004;;1;;;;;

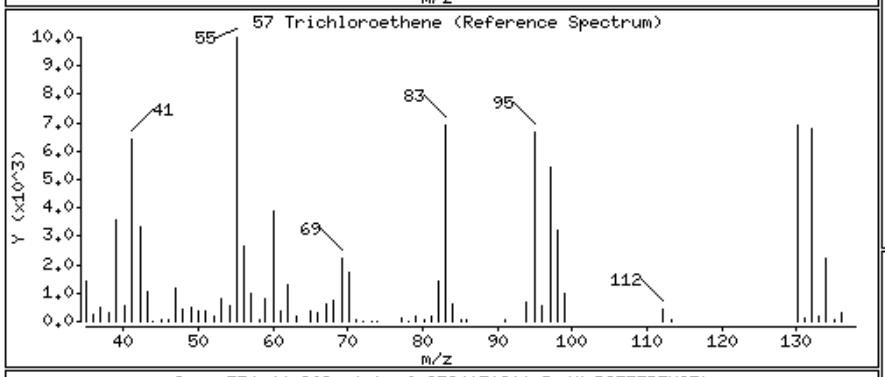
Purge Volume: 5.0 Operator: TMP

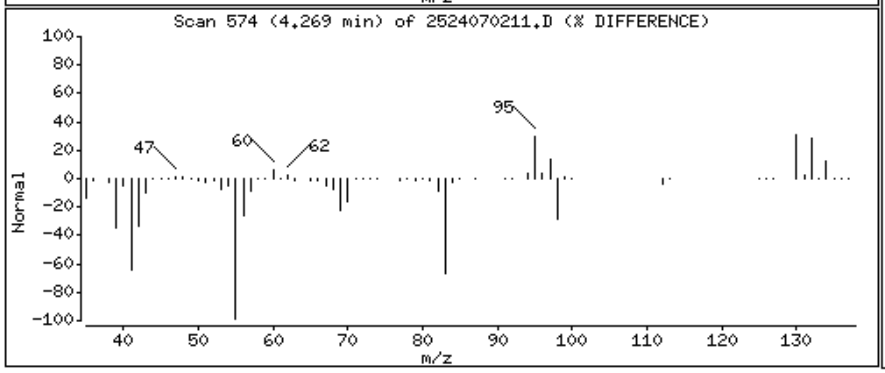
Column phase: DB-VRX Column diameter: 0.25

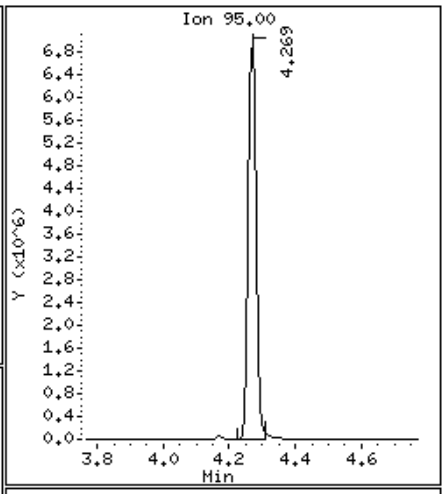
57 Trichloroethene Concentration: 1444.27 ug/L

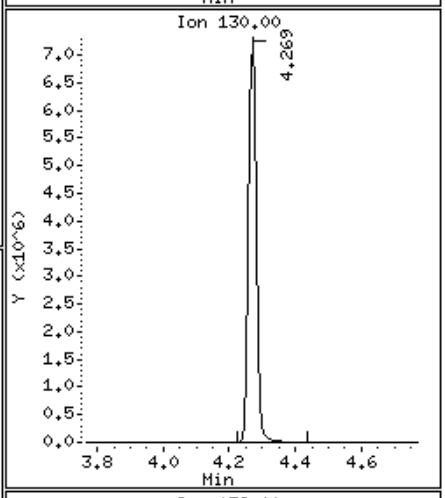


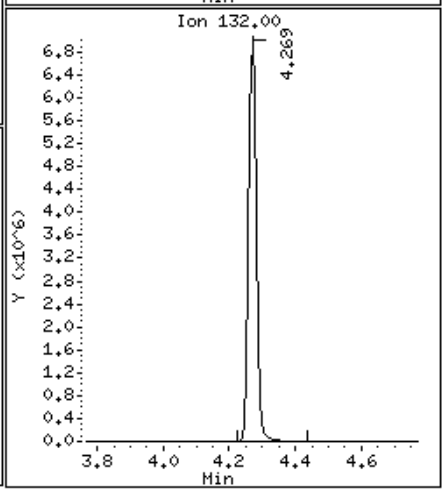












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 13

Date : 02-JUL-2024 13:33

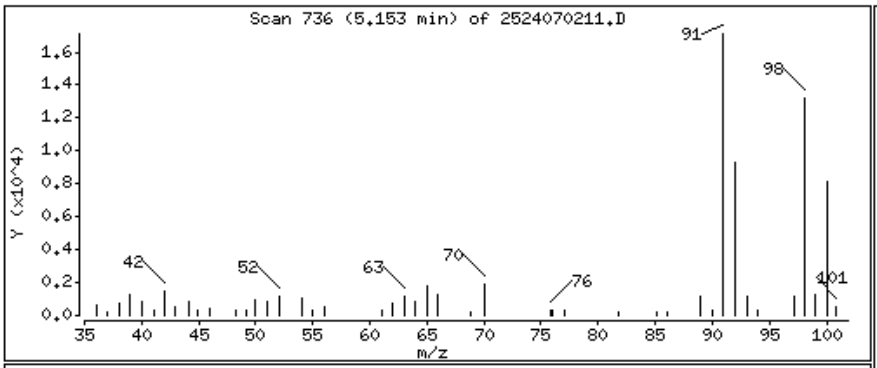
Client ID: ICT8_062024 Instrument: ms25.i

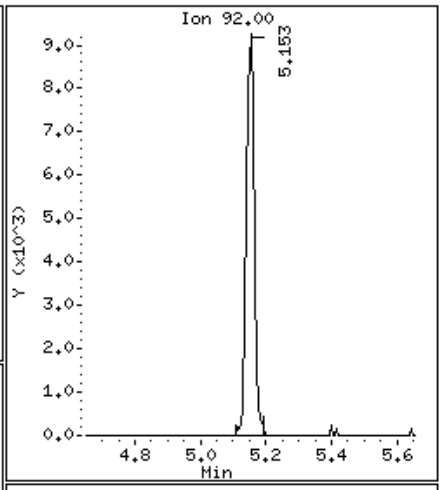
Sample Info: 3366026004;;1;;;;;

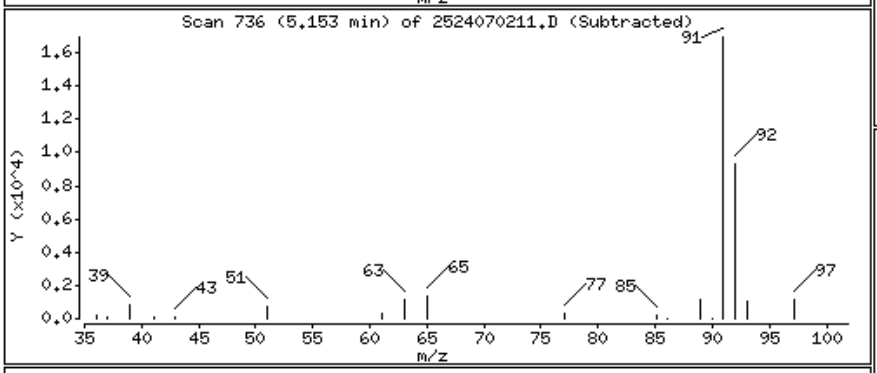
Purge Volume: 5.0 Operator: TMP

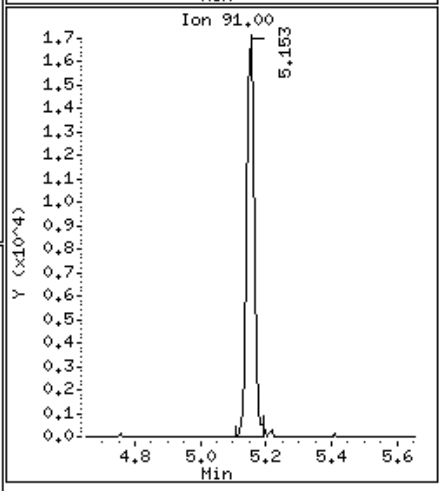
Column phase: DB-VRX Column diameter: 0.25

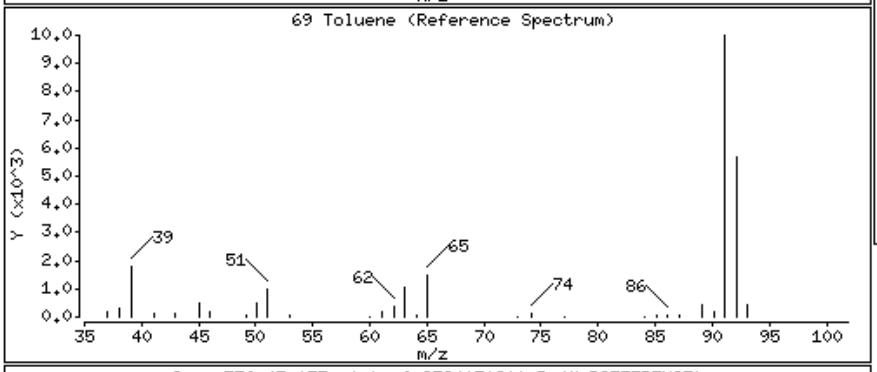
69 Toluene Concentration: 0.800945 ug/L

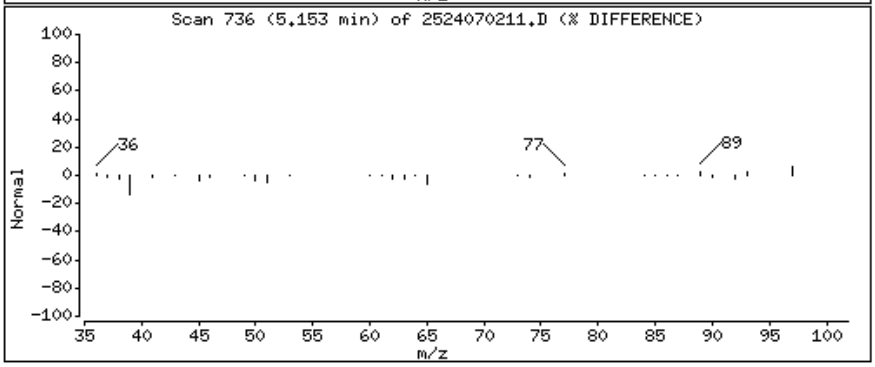












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 14

Date : 02-JUL-2024 13:33

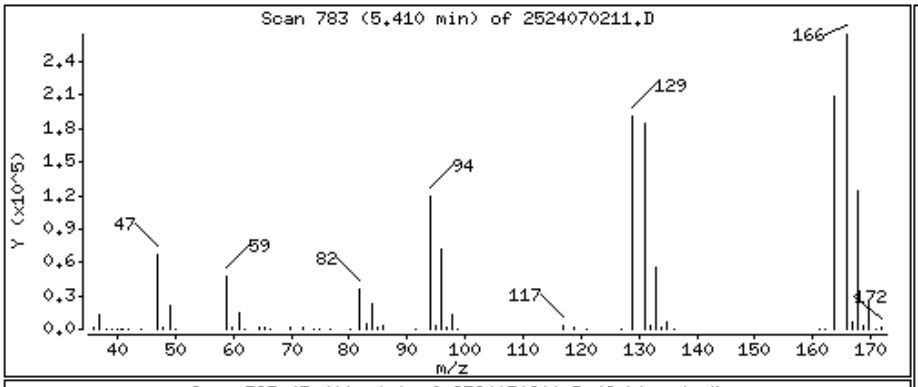
Client ID: ICT8_062024 Instrument: ms25.i

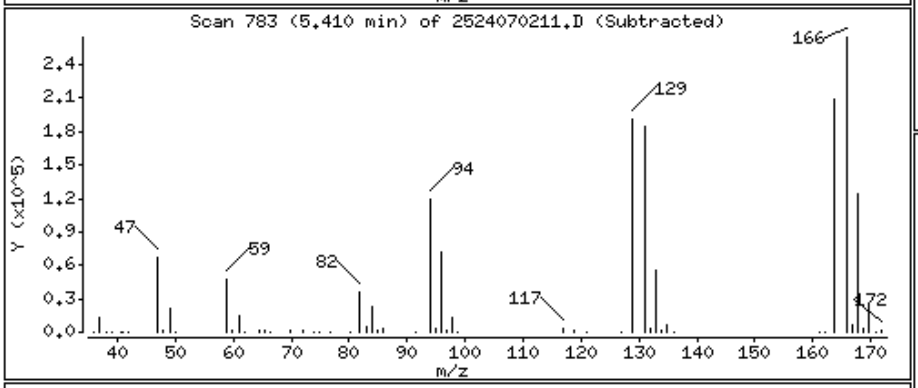
Sample Info: 3366026004;;1;;;;;

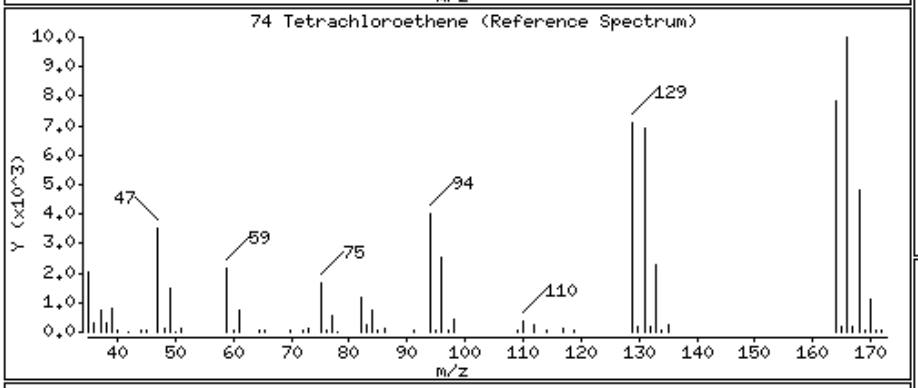
Purge Volume: 5.0 Operator: TMP

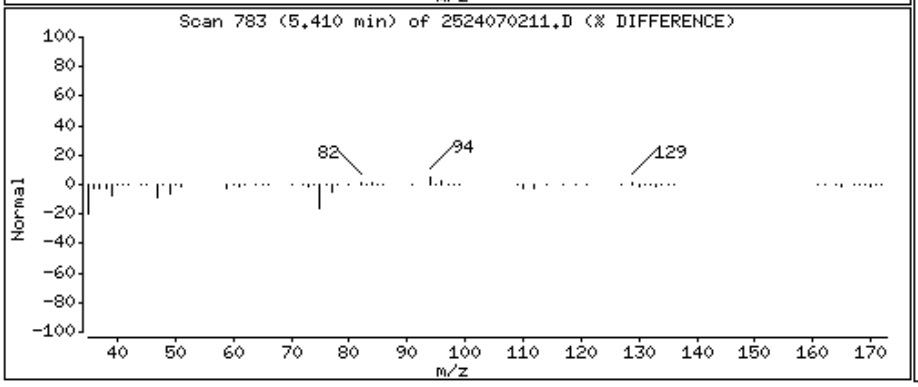
Column phase: DB-VRX Column diameter: 0.25

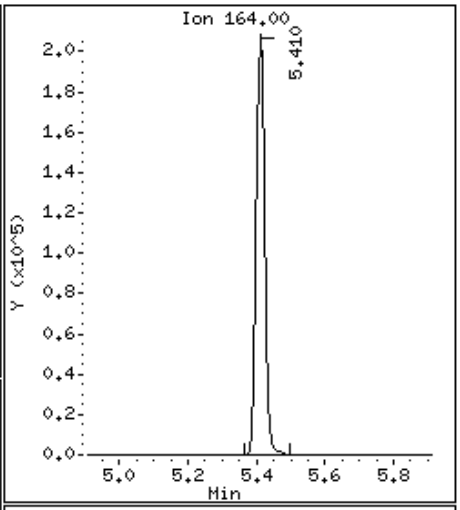
74 Tetrachloroethene Concentration: 51.4309 ug/L

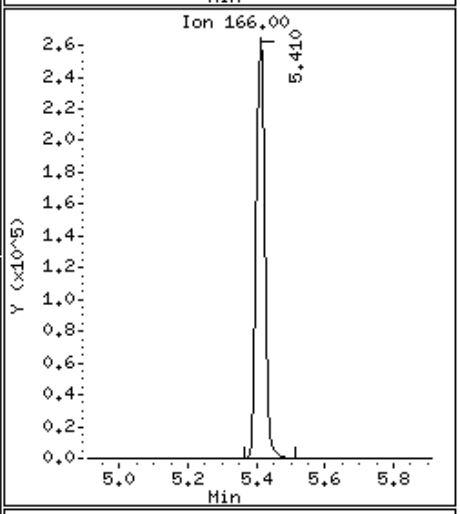


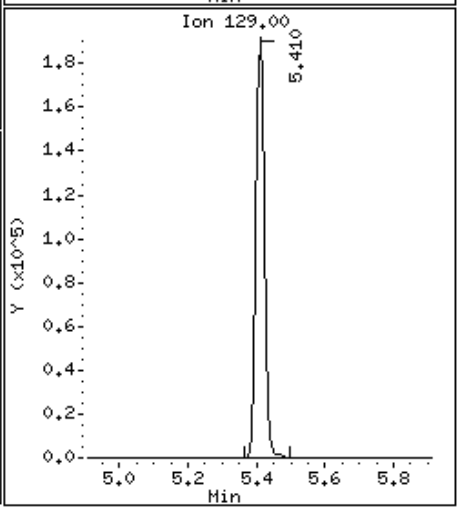












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D Page 15

Date : 02-JUL-2024 13:33

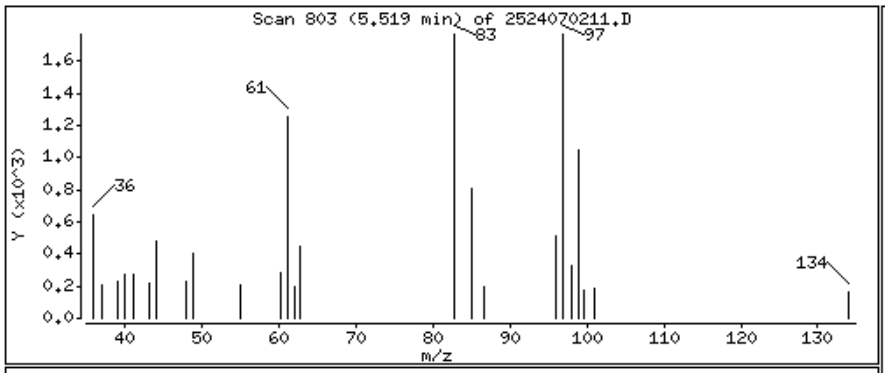
Client ID: ICT8_062024 Instrument: ms25.i

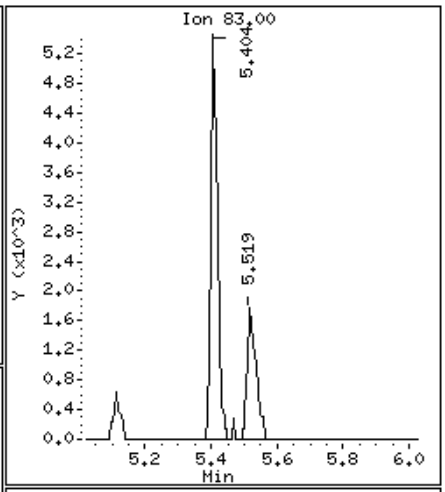
Sample Info: 3366026004;;1;;;;;

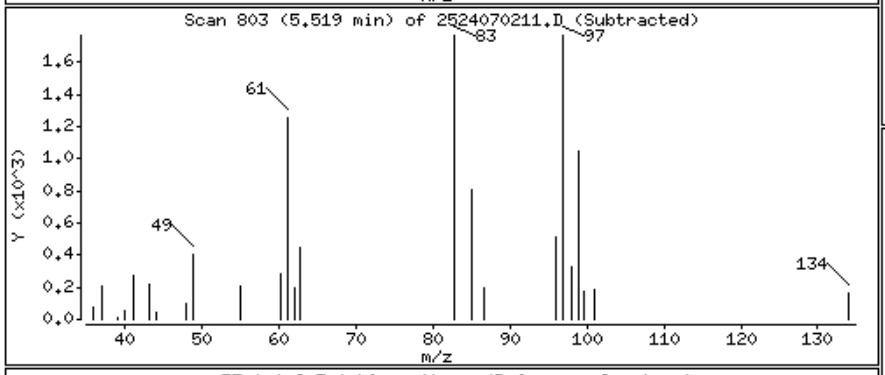
Purge Volume: 5.0 Operator: TMP

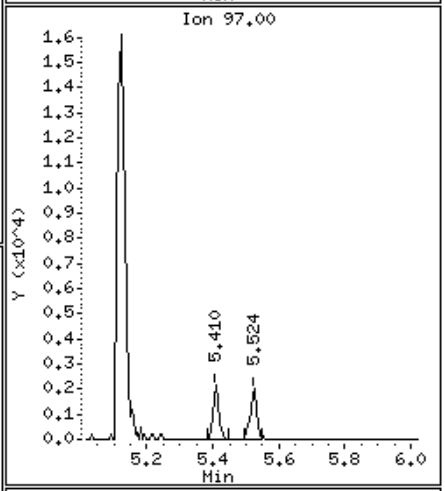
Column phase: DB-VRX Column diameter: 0.25

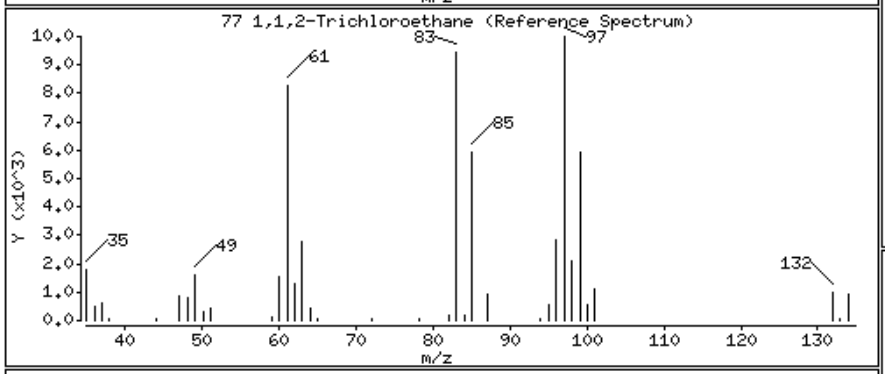
77 1,1,2-Trichloroethane Concentration: 0.567003 ug/L

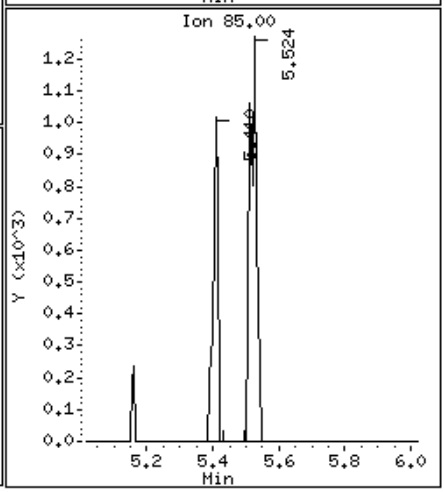


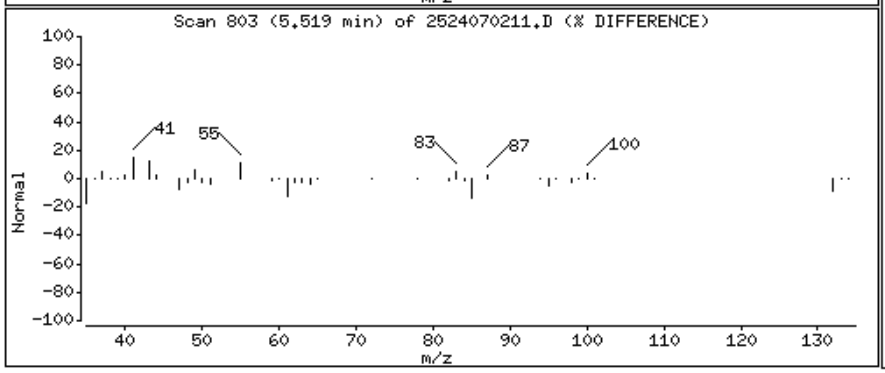












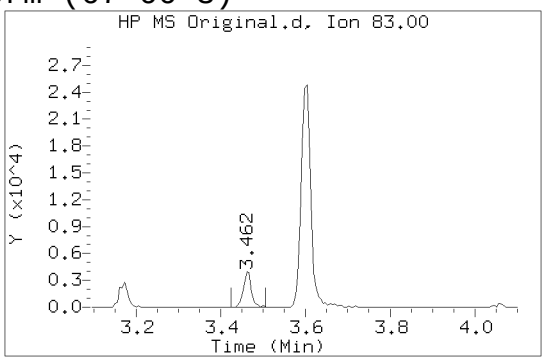
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070211.D
Inj Date : 02-JUL-2024 13:33
InstruID : ms25.i
LabSampID : 3366026004

Chloroform (67-66-3)

Reason Code:

BEFORE

MASS
83
AREA
5217
HEIGHT
3958
03-Jul-2024
03:26



AFTER

MASS
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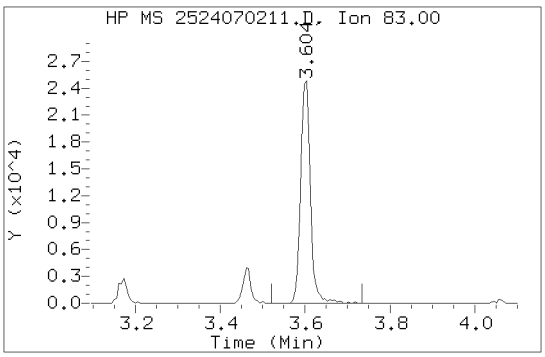
AREA
40022
HEIGHT
24824
09-Jul-2024
12:42



BEFORE

MASS
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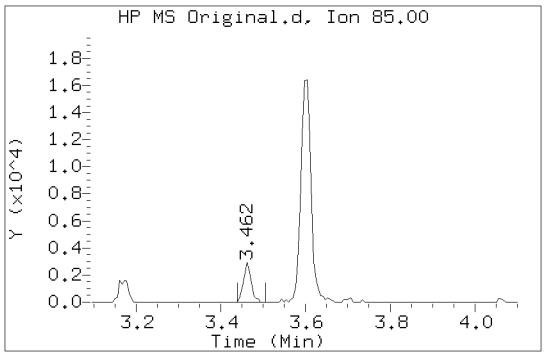
HEIGHT
2926
03-Jul-2024
03:26



AFTER

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HEIGHT
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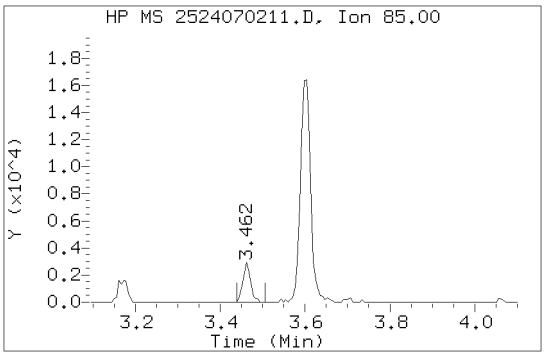
09-Jul-2024
12:42



BEFORE

MASS
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AREA
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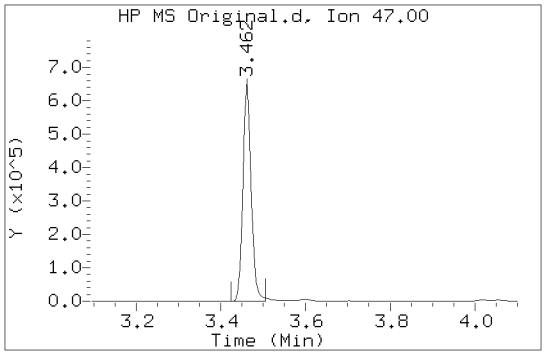
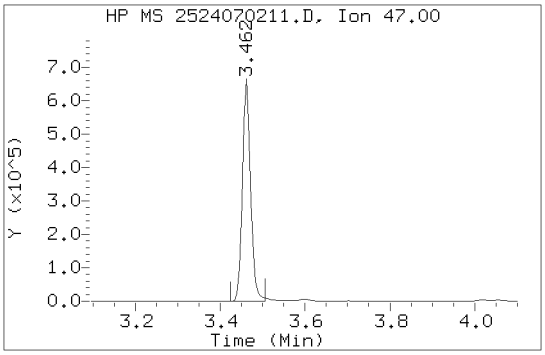
HEIGHT
665178
03-Jul-2024
03:26



AFTER

MASS
47
AREA
891426
HEIGHT
665178
09-Jul-2024
12:42



UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:42
Client ID: ICT8_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407021
Inj Date: 02-JUL-2024 13:33
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
Acetonitrile
Acrolein
tert-amyl methyl Ether
tert-Amyl Alcohol
tert-Amyl Ethylether
Bromodichloromethane
2-Butanone
Carbon Disulfide
Chloroethane
1-Chlorobutane
1-Chlorohexane
Chloromethane
1,1-Dichloro-2-propanone
Dichlorodifluoromethane
trans-1,2-Dichloroethene
Dichlorofluoromethane
Ethyl Ether
Ethyl methacrylate
Ethylbenzene
Heptane
Isobutyl alcohol
Isopropyl Alcohol
Isopropylbenzene
Methacrylonitrile
Methyl acetate
Methyl acrylate
Methyl cyclohexane
2-Nitropropane
Pentane
1,1,1-Trichloroethane
Trichlorofluoromethane
o-Xylene

Data File: 2524070213.D Page 1
Report Date: 09-Jul-2024 12:43

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D
Lab Smp Id: 3366026020 Client Smp ID: ICT14C_062024
Inj Date : 02-JUL-2024 14:13
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026020;;1;;;;;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.399)	4302205	431.695	431.695(A)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.414	2.414	(0.565)	1453729	189.669	189.669	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.419	2.424	(0.567)	17275028	3204.47	3204.47(A)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.663)	328747	43.7925	43.7925	
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070213.D Page 2
Report Date: 09-Jul-2024 12:43

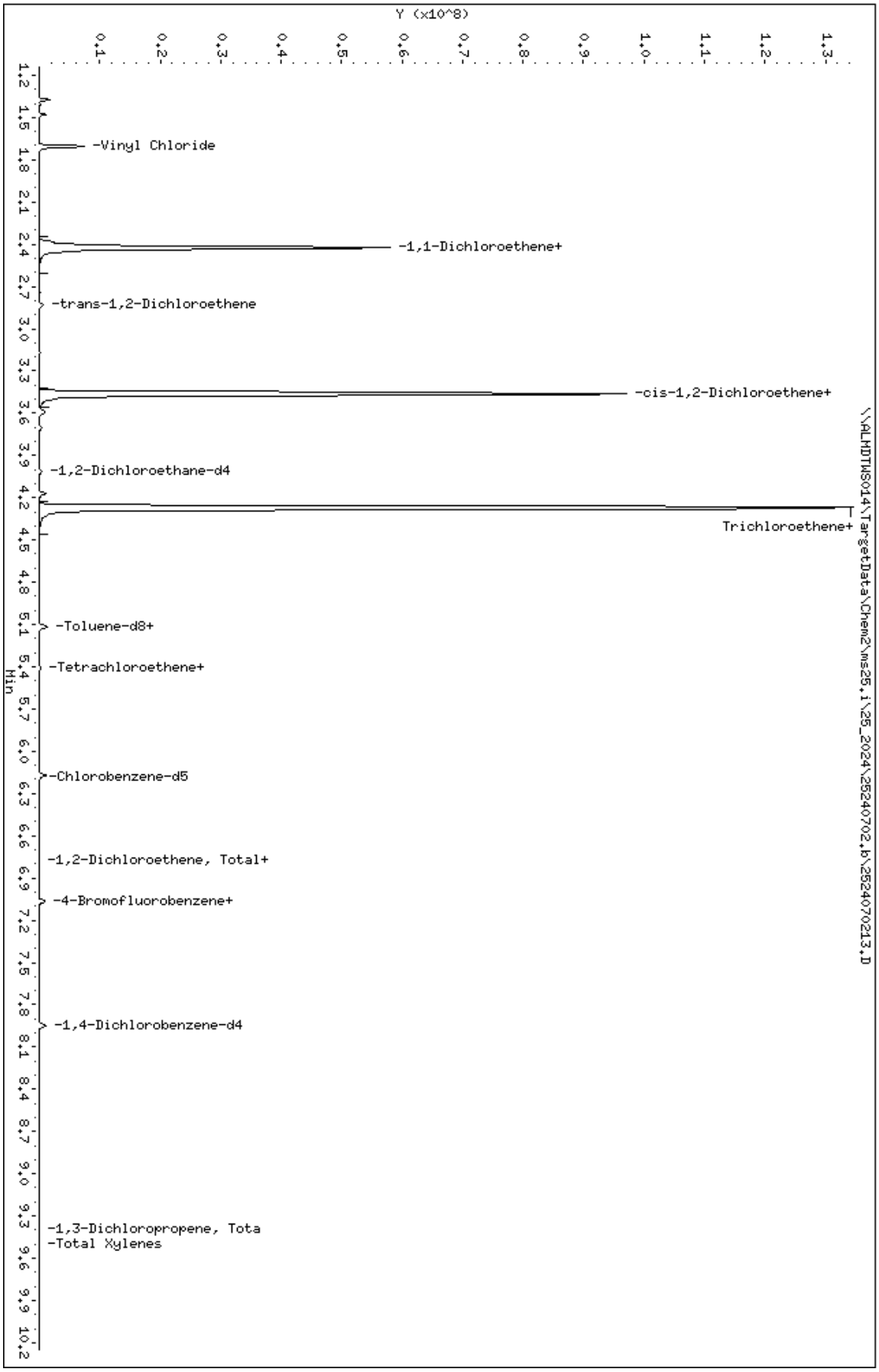
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.450	3.461	(0.808)	22551329	2962.74	2962.74(AQ)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				22880076	3006.54	3006.54	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	3.587	3.587	(0.840)	234684	25.6961	25.6961	
	36 Chloroform	83	3.598	3.598	(0.863)	250591	22.6970	22.6970(QM)	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.701	(0.868)	185138	29.4504	29.4504	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.940)	220811	33.3207	33.3207	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	796726	30.0000	(QM)	
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.258	4.269	(0.997)	21588883	3414.13	3414.13(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	753732	30.3112	30.3112	
	69 Toluene	92	5.147	5.153	(0.834)	14030	0.89018	0.890182(a)	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	61281	10.6779	10.6779	
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070213.D Page 3
Report Date: 09-Jul-2024 12:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	16008	3.30577	3.30577	
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	314078	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	6.610	6.610	(1.071)	8430	0.78870	0.788704(a)	
	89 Styrene	104	6.648	6.648	(0.836)	407	0.31954	0.319536(aQ)	
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	6.844	6.839	(0.861)	4837	0.35810	0.358097(a)	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	223412	30.4186	30.4186	
M	121 TOTAL XYLENES	106				8430	0.78870	0.788704(a)	
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	7.215	7.204	(0.907)	4505	0.72210	0.722098(aQ)	
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	265485	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.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0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Vinyl Chloride
-1,1-Dichloroethene+
-trans-1,2-Dichloroethene
-cis-1,2-Dichloroethene+
-1,2-Dichloroethane-d4
Trichloroethene+
-Toluene-d8+
-Tetrachloroethene+
-Chlorobenzene-d5
-1,2-Dichloroethene, Total+
-4-Bromofluorobenzene+
-1,4-Dichlorobenzene-d4
-1,3-Dichloropropene, Tota
-Total Xylenes
\\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D
Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D
Date : 02-JUL-2024 14:13
Client ID: ICT14C_062024
Sample Info: 33660260203;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: THP
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 2

Date : 02-JUL-2024 14:13

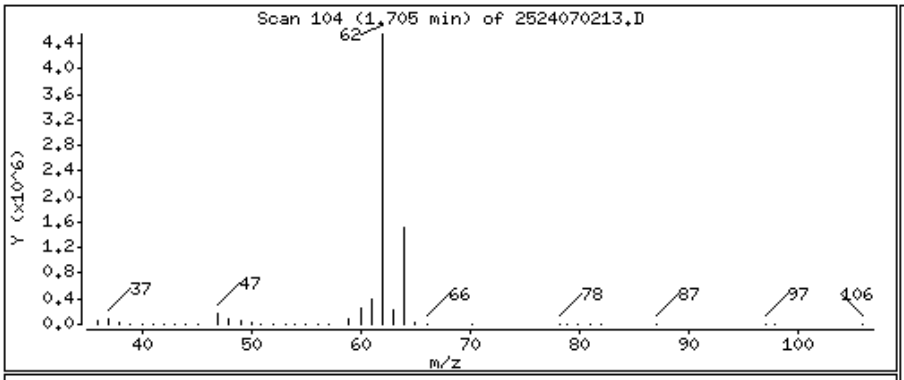
Client ID: ICT14C_062024 Instrument: ms25.i

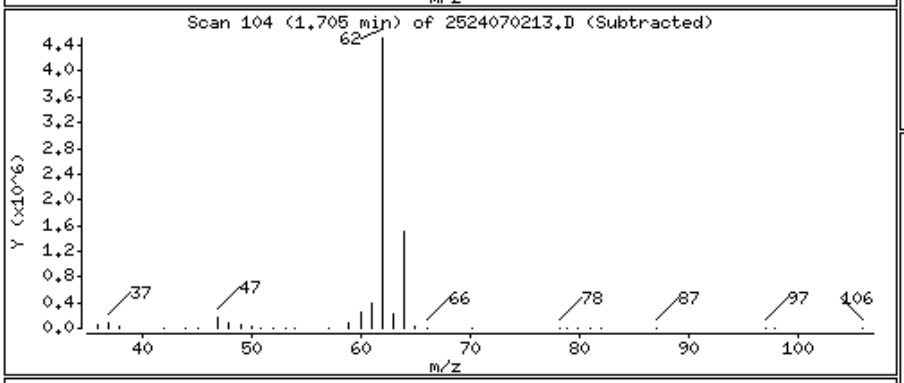
Sample Info: 3366026020;;1;;;;;

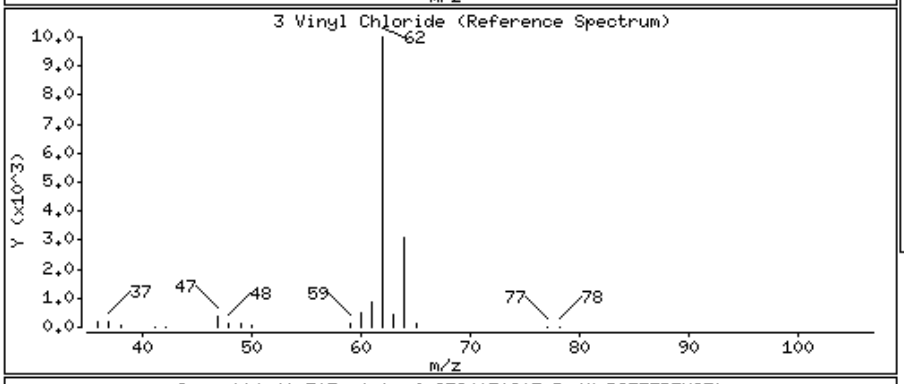
Purge Volume: 5.0 Operator: TMP

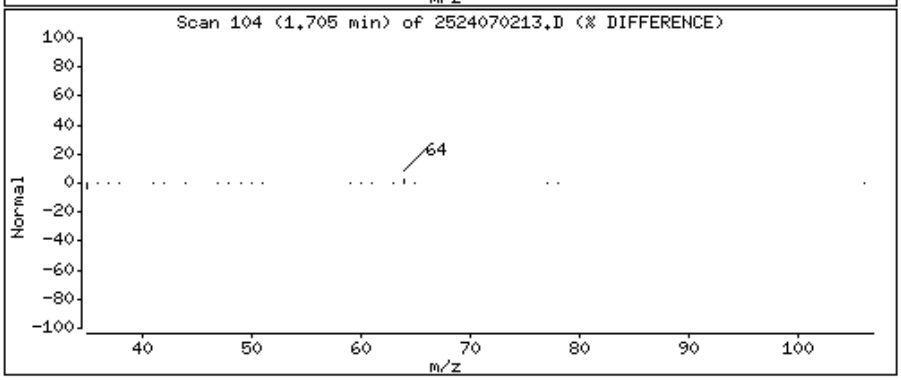
Column phase: DB-VRX Column diameter: 0.25

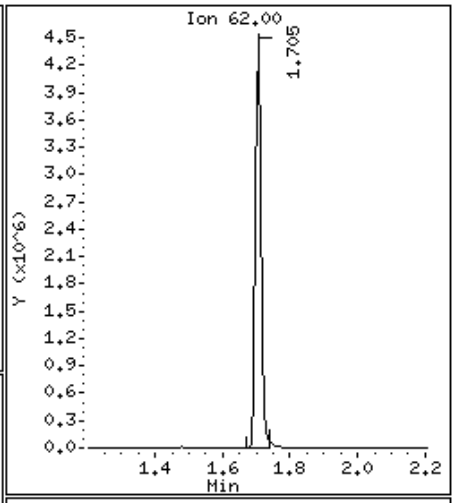
3 Vinyl Chloride Concentration: 431.695 ug/L

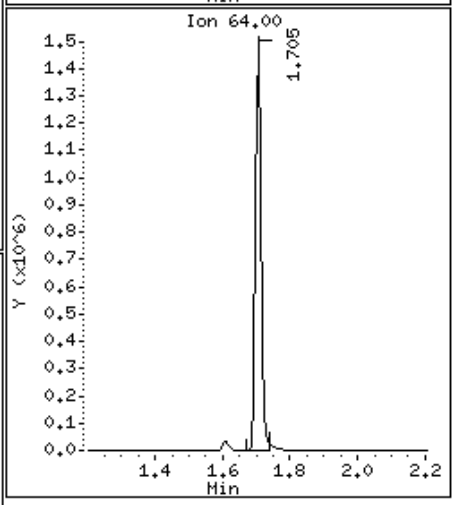












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 3

Date : 02-JUL-2024 14:13

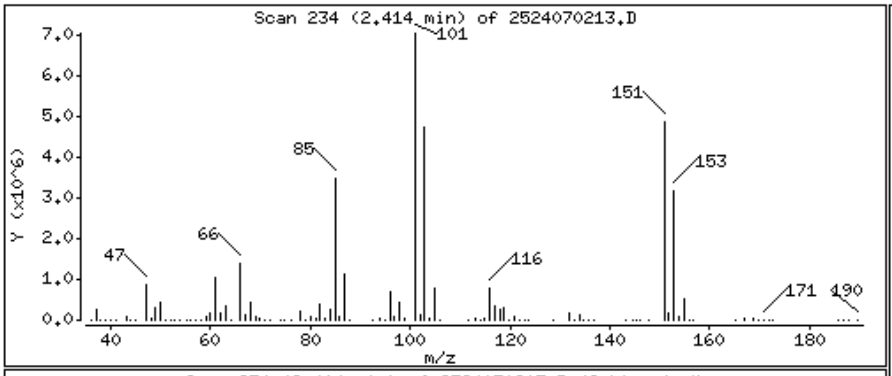
Client ID: ICT14C_062024 Instrument: ms25.i

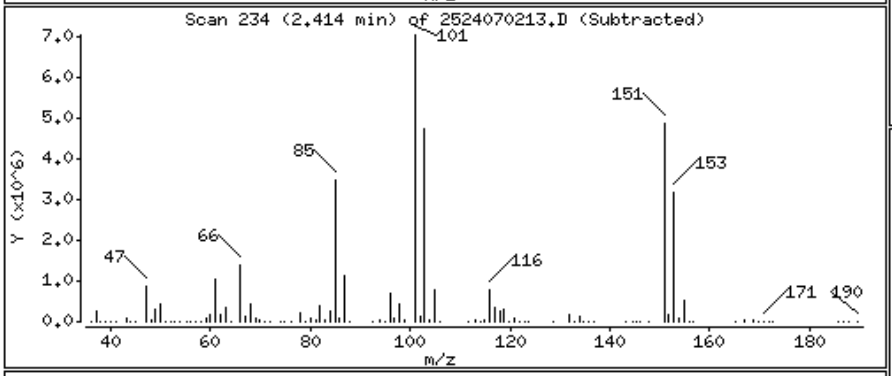
Sample Info: 3366026020;;1;;;;;

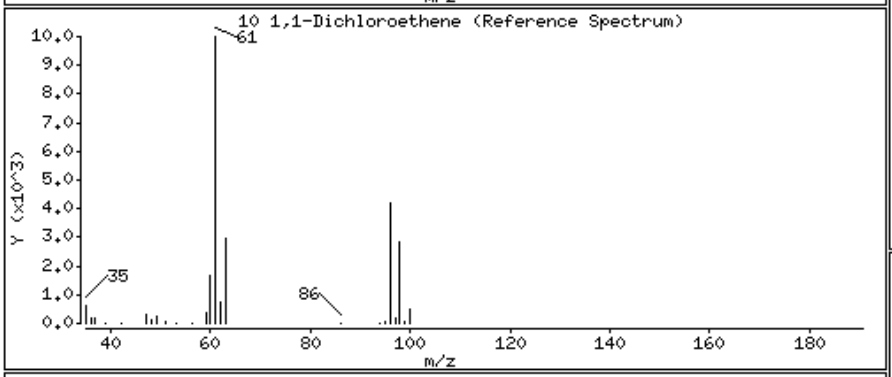
Purge Volume: 5.0 Operator: TMP

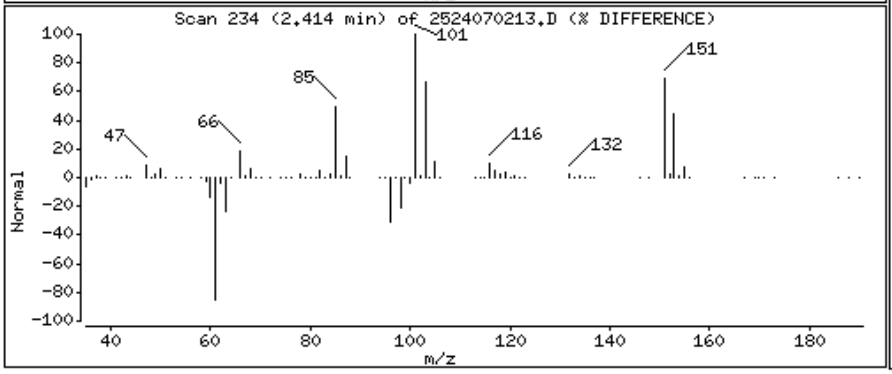
Column phase: DB-VRX Column diameter: 0.25

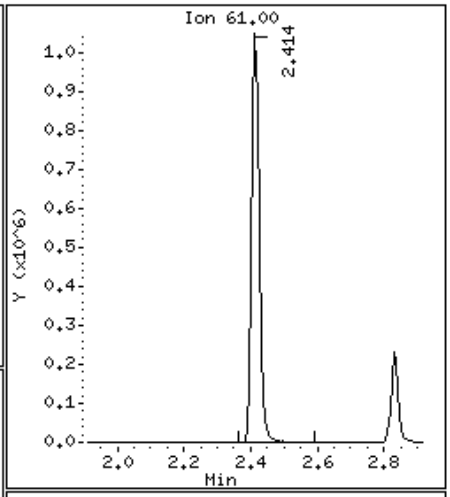
10 1,1-Dichloroethene Concentration: 189.669 ug/L

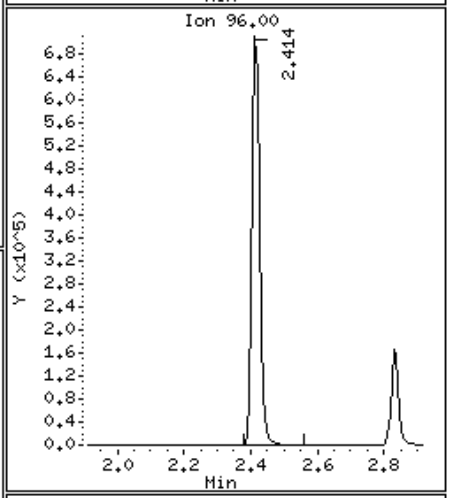


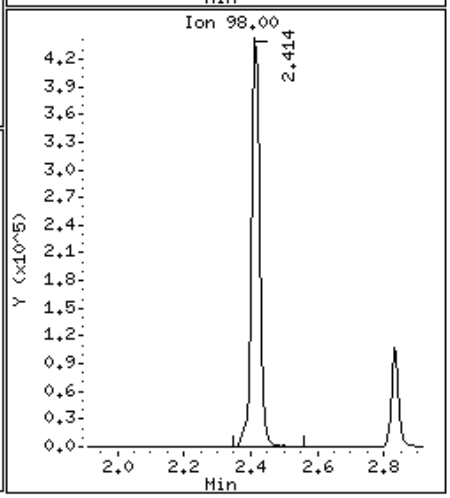












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 4

Date : 02-JUL-2024 14:13

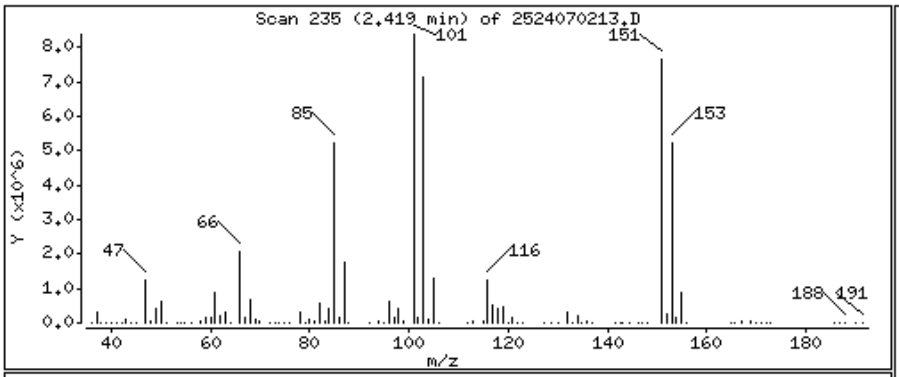
Client ID: ICT14C_062024 Instrument: ms25.i

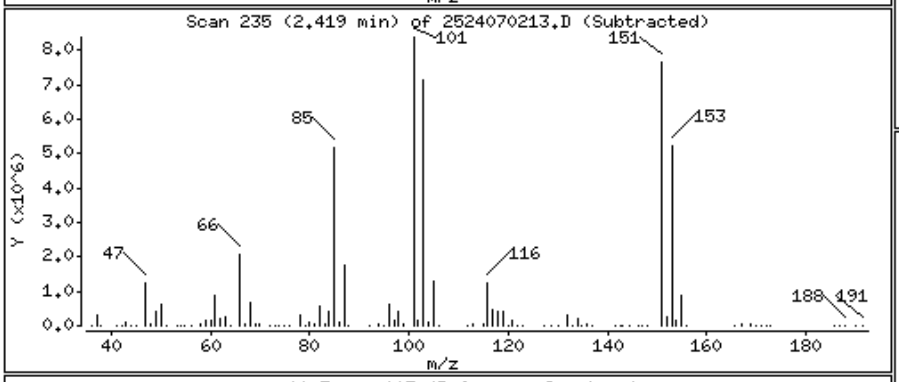
Sample Info: 3366026020;;1;;;;;

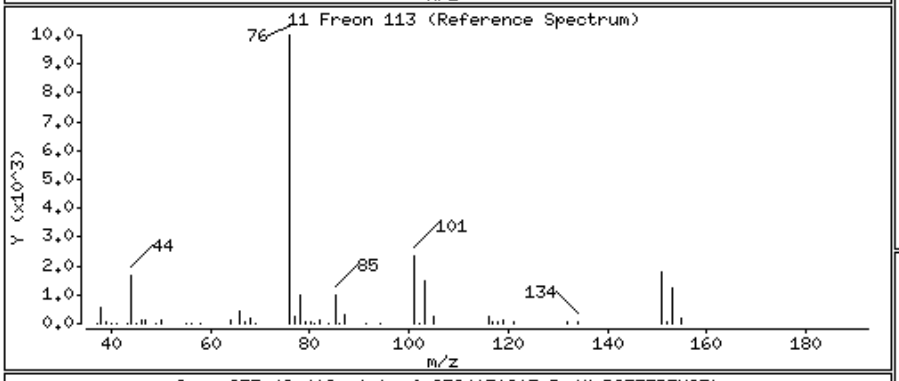
Purge Volume: 5.0 Operator: TMP

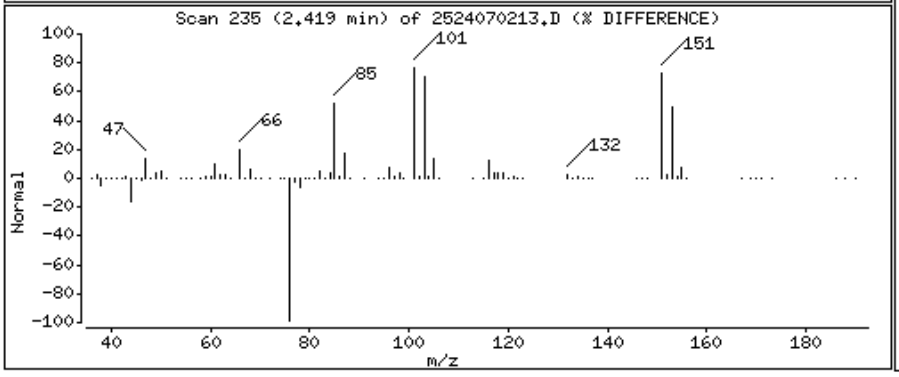
Column phase: DB-VRX Column diameter: 0.25

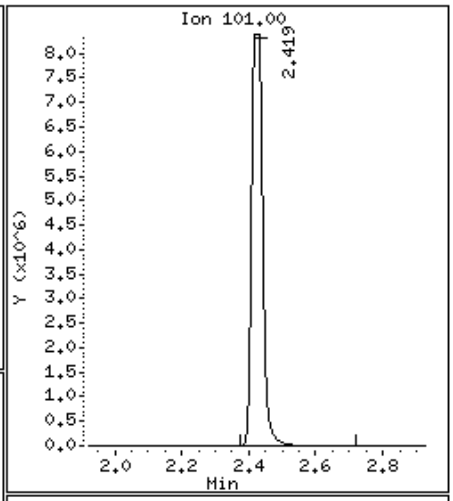
11 Freon 113 Concentration: 3204.47 ug/L

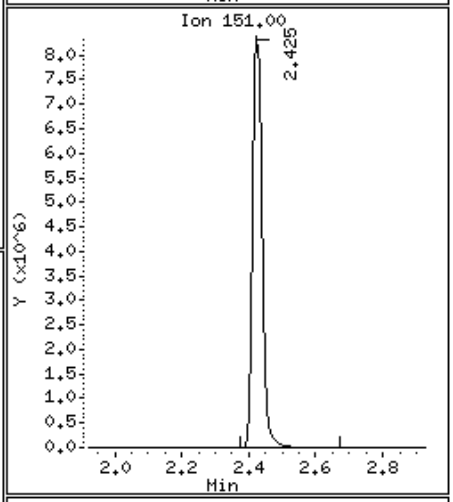


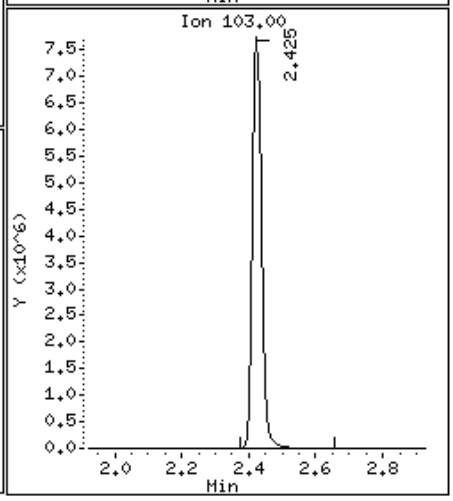












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 5

Date : 02-JUL-2024 14:13

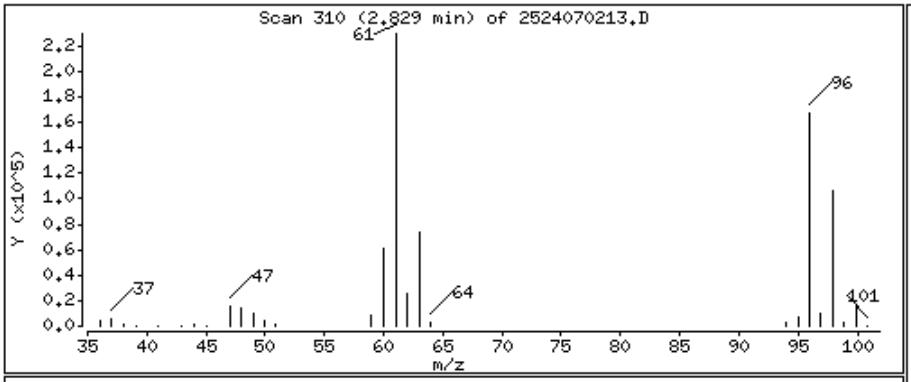
Client ID: ICT14C_062024 Instrument: ms25.i

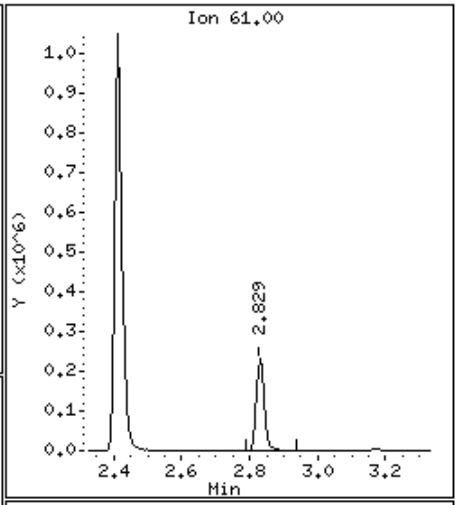
Sample Info: 3366026020;;1;;;;;

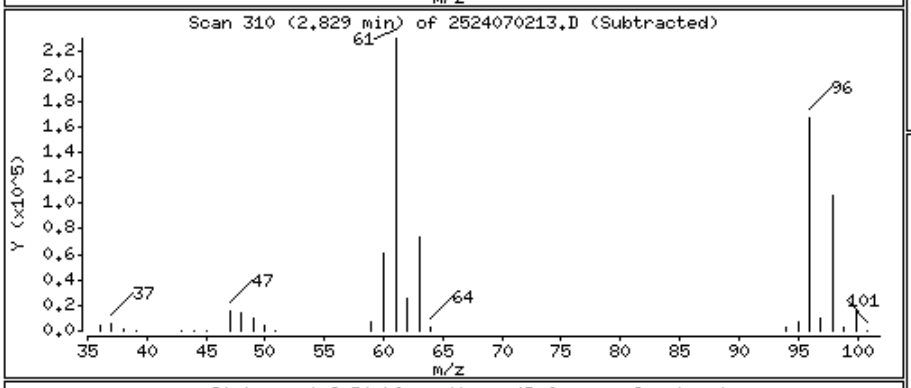
Purge Volume: 5.0 Operator: TMP

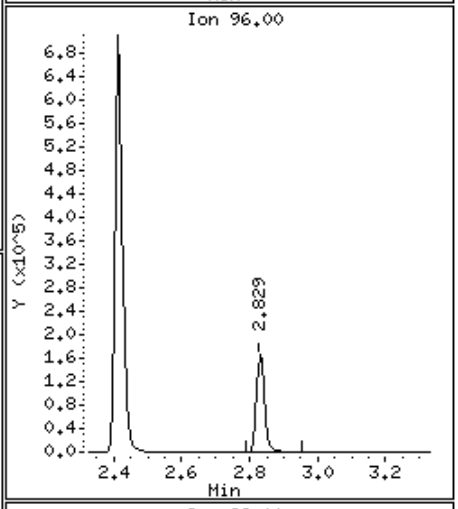
Column phase: DB-VRX Column diameter: 0.25

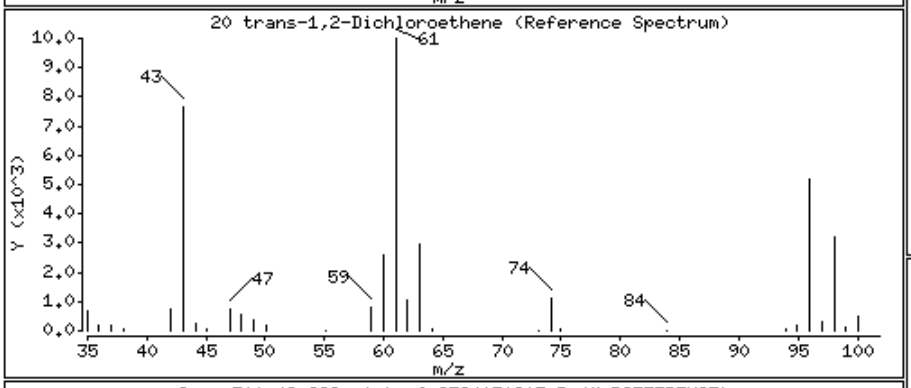
20 trans-1,2-Dichloroethene Concentration: 43.7925 ug/L

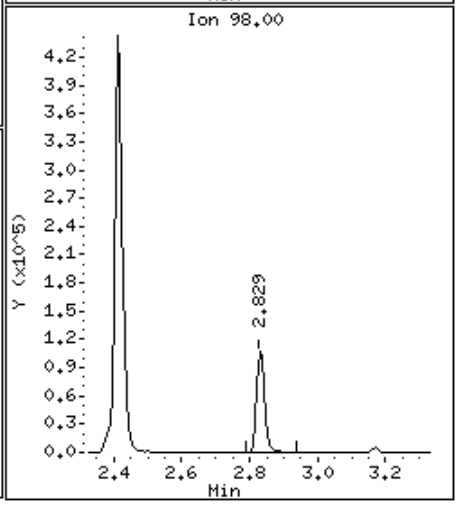


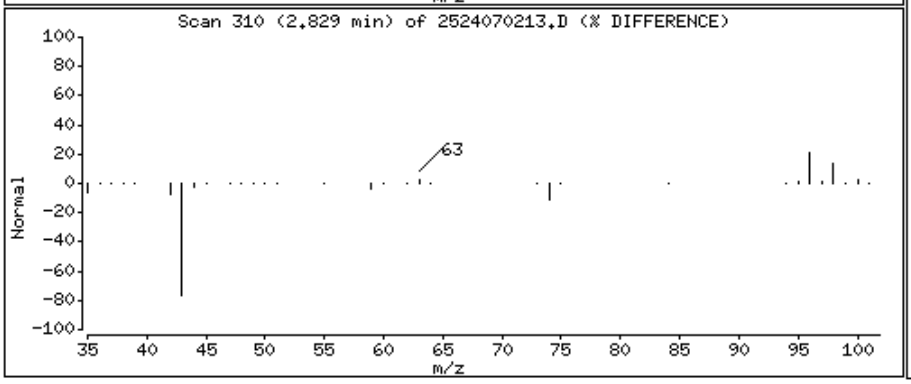












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 6

Date : 02-JUL-2024 14:13

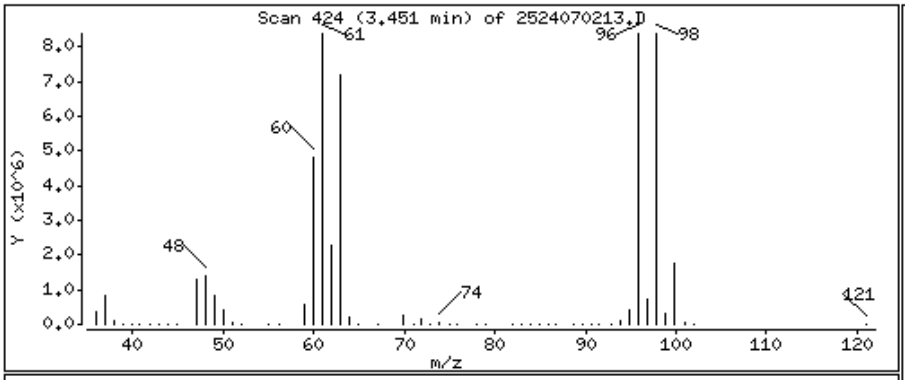
Client ID: ICT14C_062024 Instrument: ms25.i

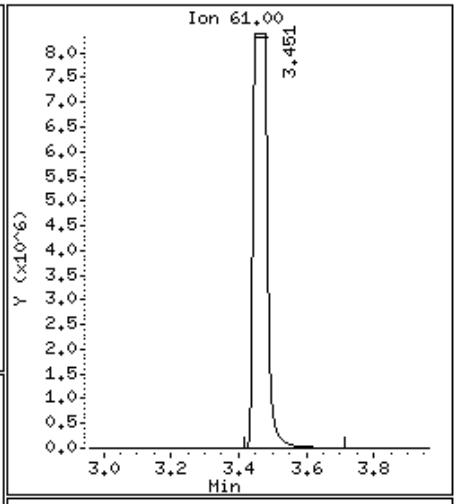
Sample Info: 3366026020;;1;;;;;

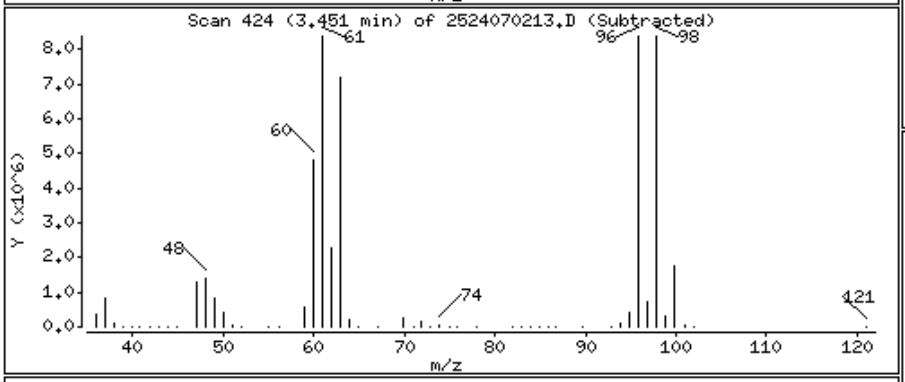
Purge Volume: 5.0 Operator: TMP

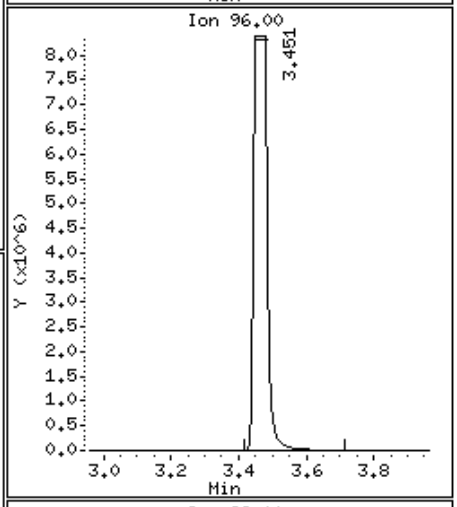
Column phase: DB-VRX Column diameter: 0.25

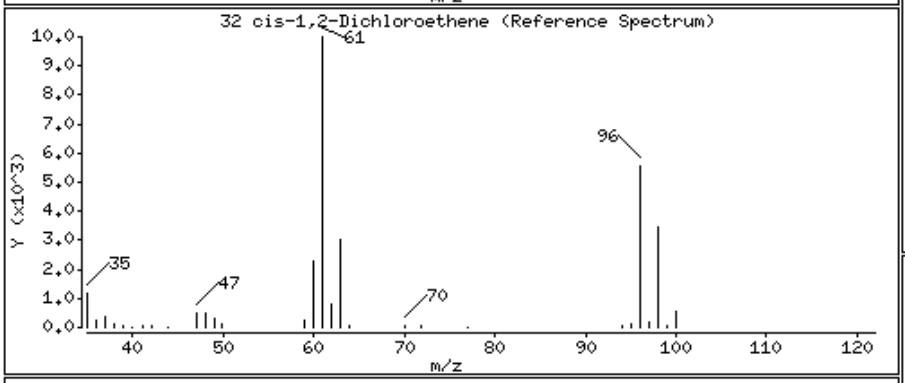
32 cis-1,2-Dichloroethene Concentration: 2962.74 ug/L

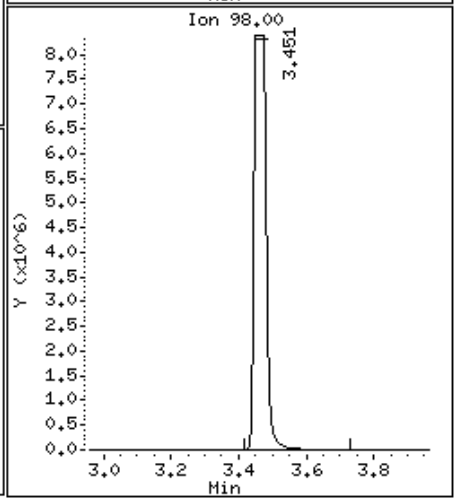


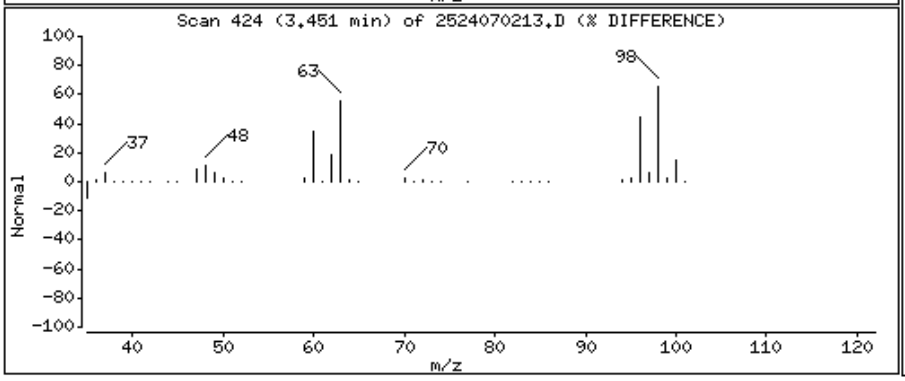












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 7

Date : 02-JUL-2024 14:13

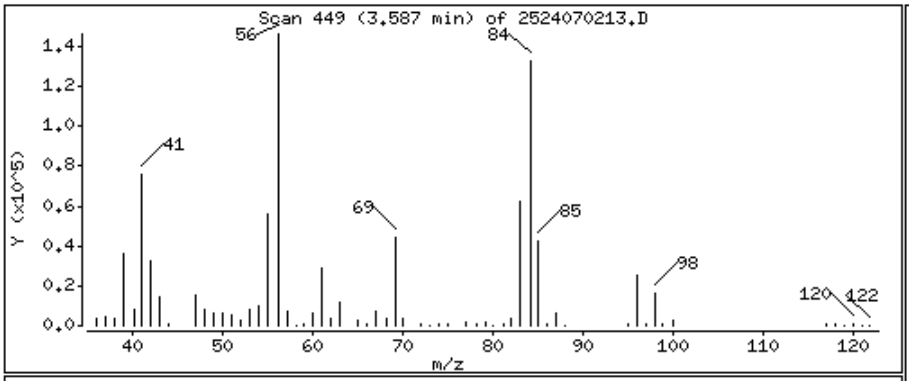
Client ID: ICT14C_062024 Instrument: ms25.i

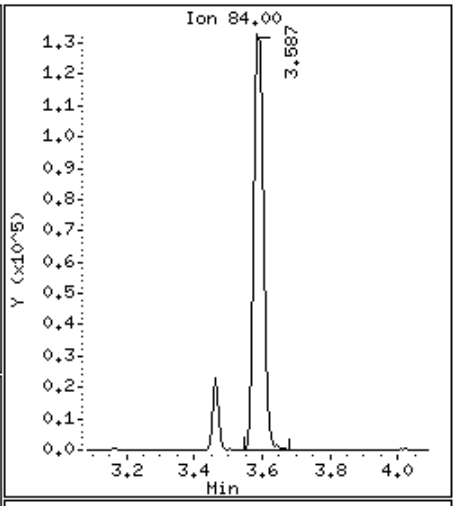
Sample Info: 3366026020;;1;;;;;

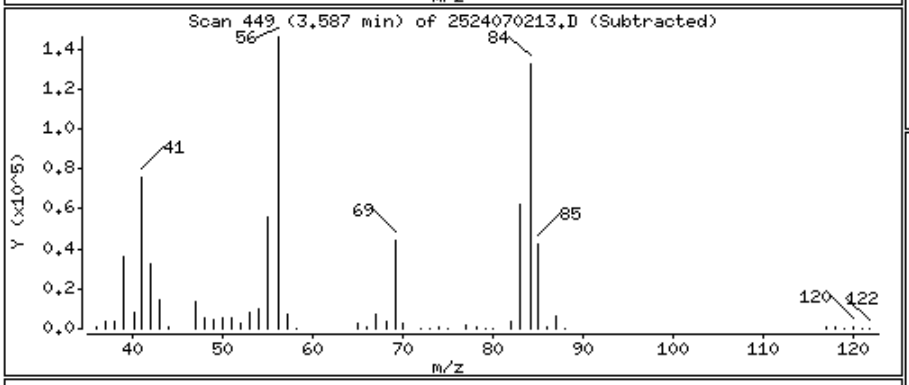
Purge Volume: 5.0 Operator: TMP

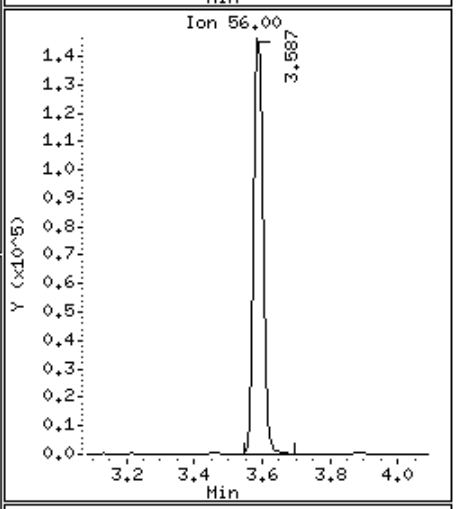
Column phase: DB-VRX Column diameter: 0.25

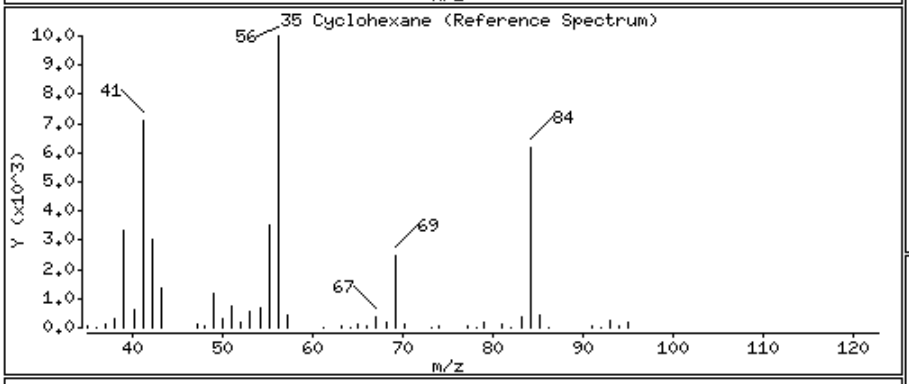
35 Cyclohexane Concentration: 25.6961 ug/L

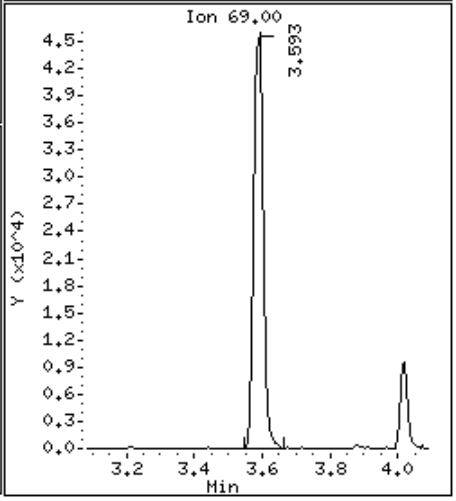


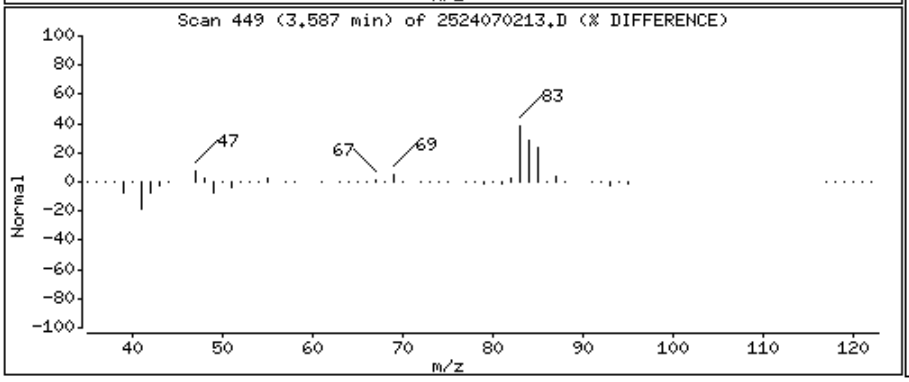












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 8

Date : 02-JUL-2024 14:13

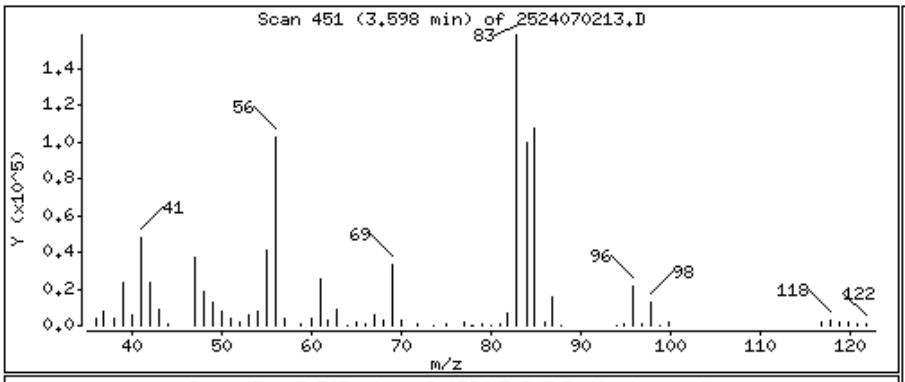
Client ID: ICT14C_062024 Instrument: ms25.i

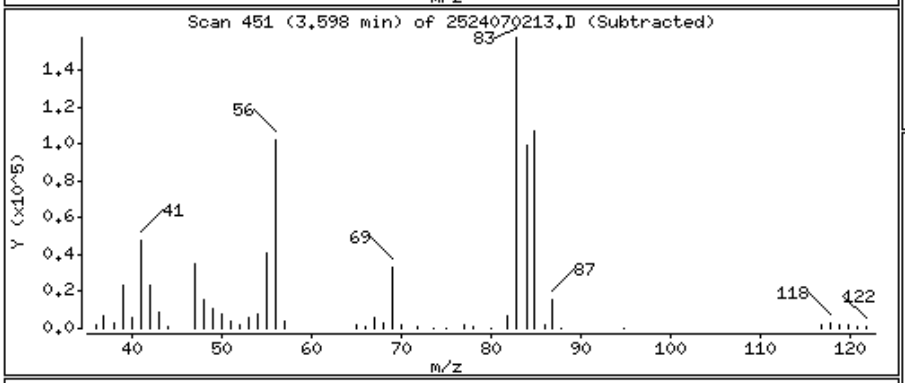
Sample Info: 3366026020;;1;;;;;

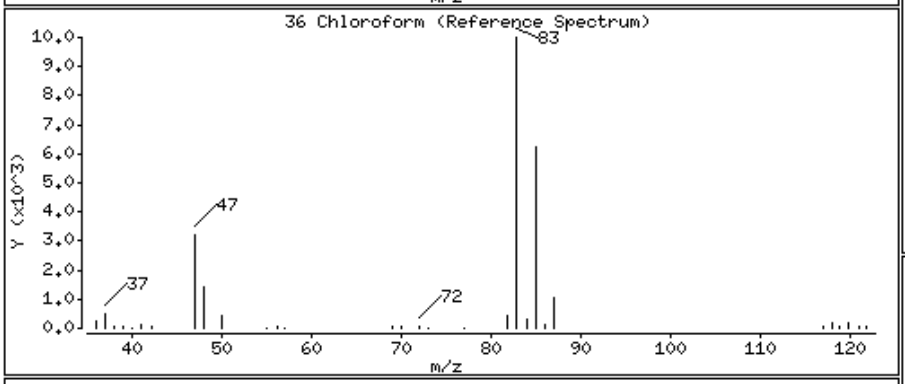
Purge Volume: 5.0 Operator: TMP

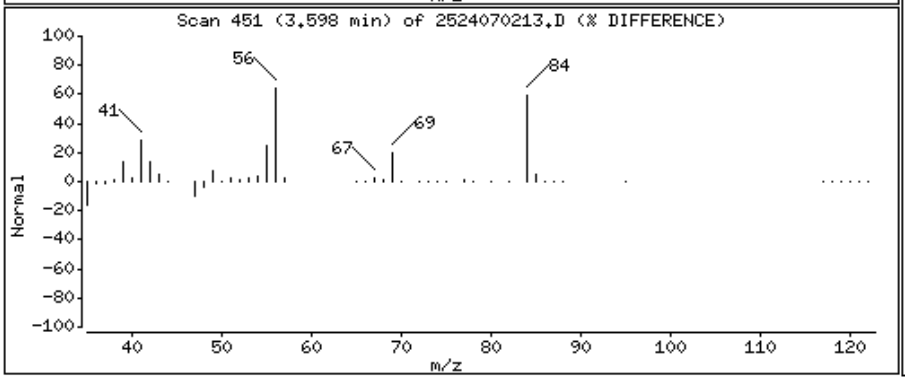
Column phase: DB-VRX Column diameter: 0.25

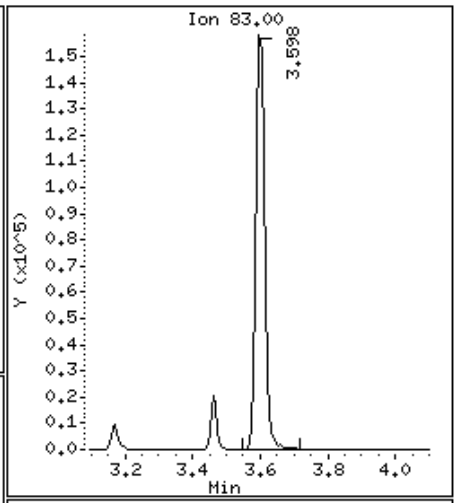
36 Chloroform Concentration: 22.6970 ug/L

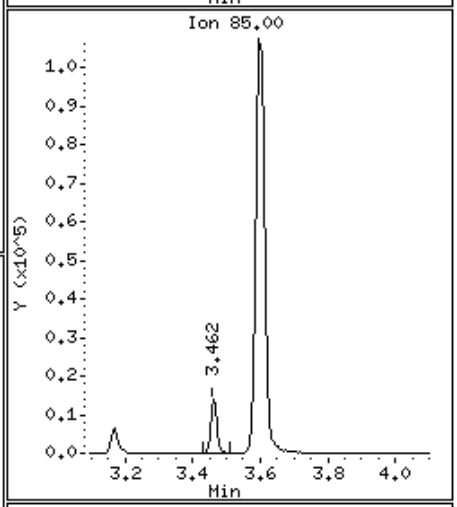


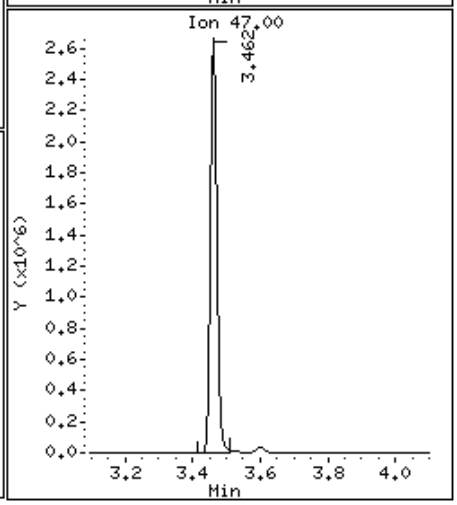












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 9

Date : 02-JUL-2024 14:13

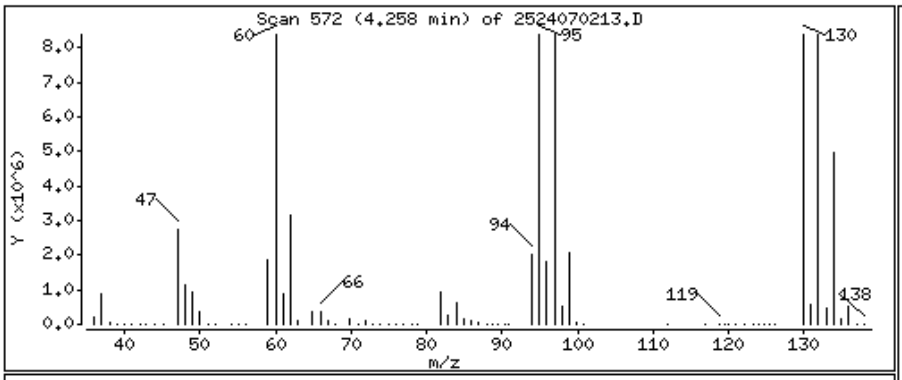
Client ID: ICT14C_062024 Instrument: ms25.i

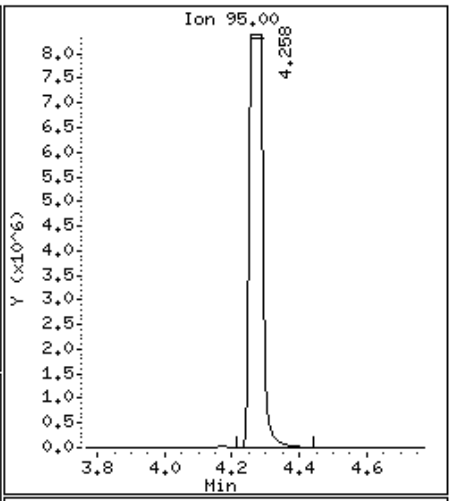
Sample Info: 3366026020;;1;;;;;

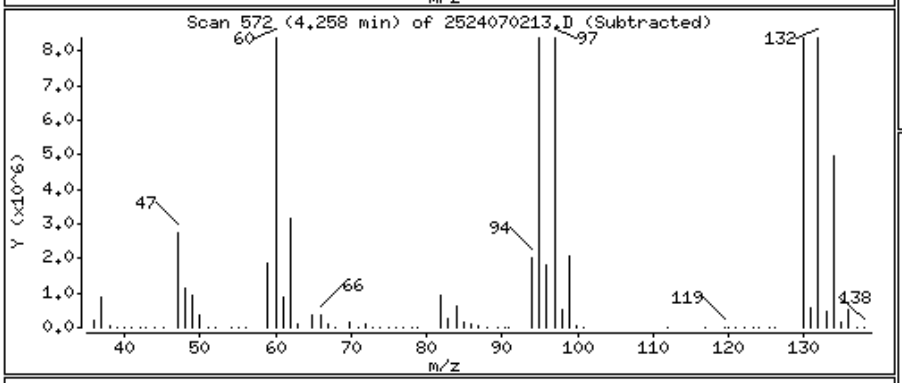
Purge Volume: 5.0 Operator: TMP

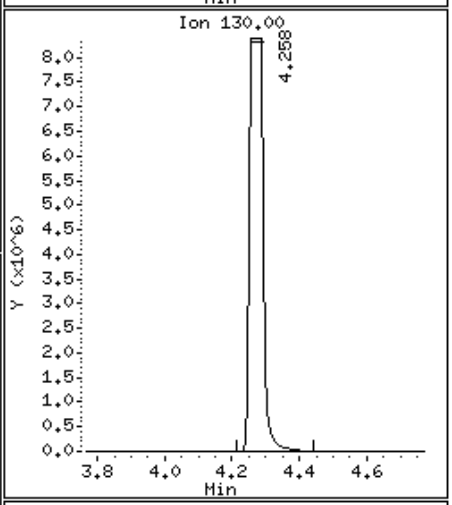
Column phase: DB-VRX Column diameter: 0.25

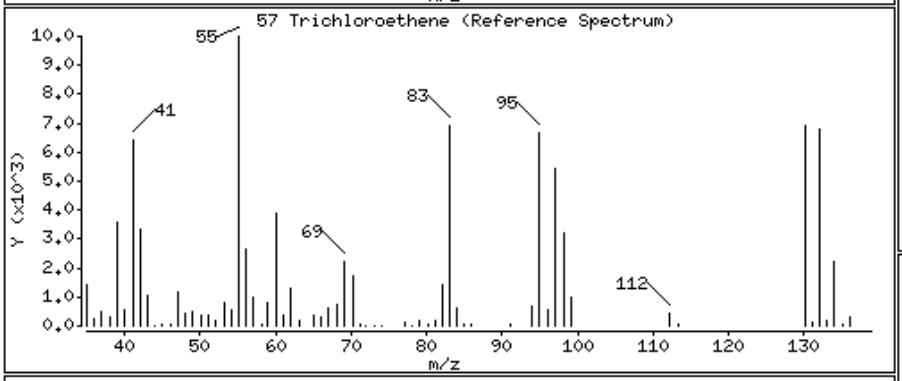
57 Trichloroethene Concentration: 3414.13 ug/L

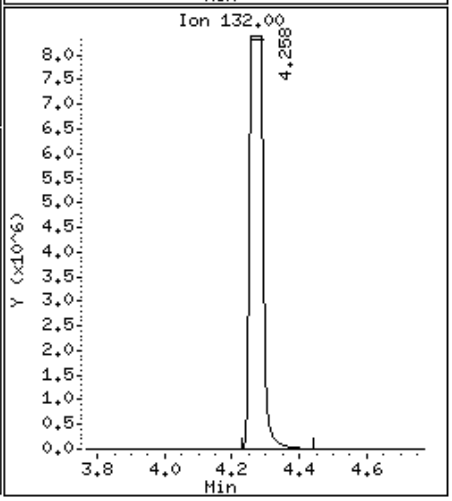


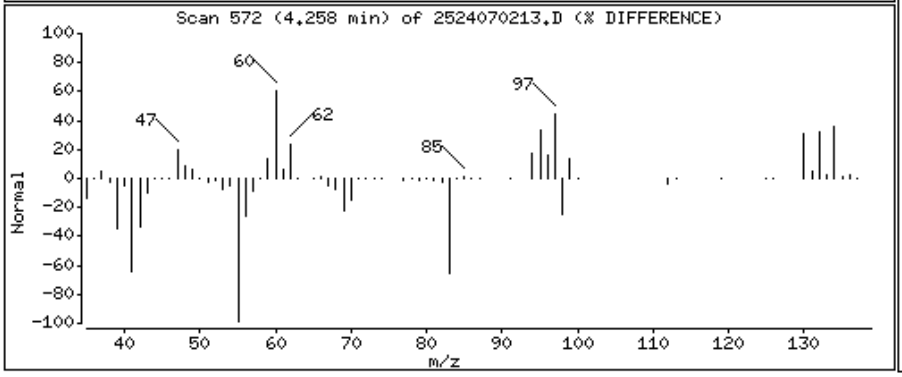












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 10

Date : 02-JUL-2024 14:13

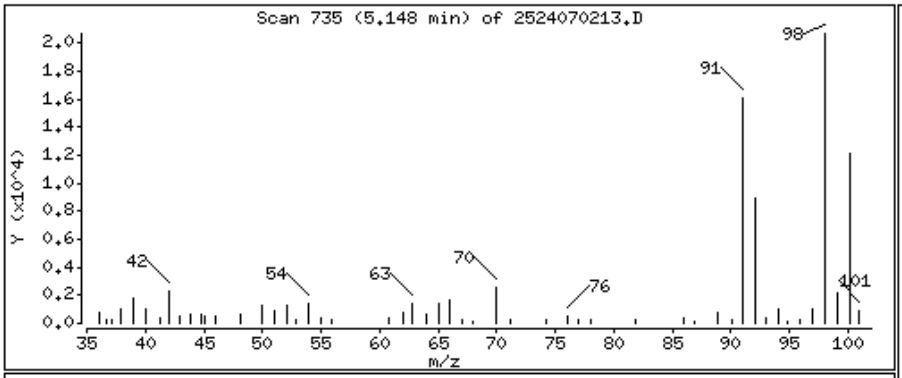
Client ID: ICT14C_062024 Instrument: ms25.i

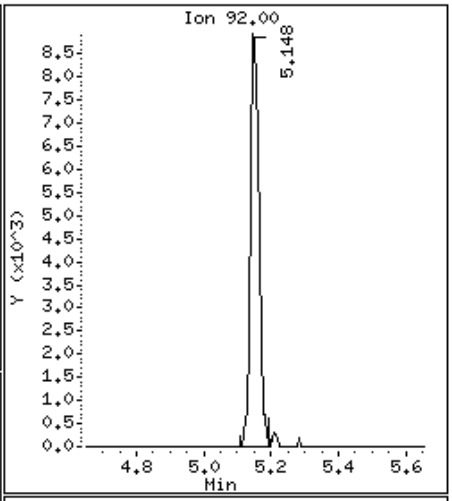
Sample Info: 3366026020;;1;;;;;

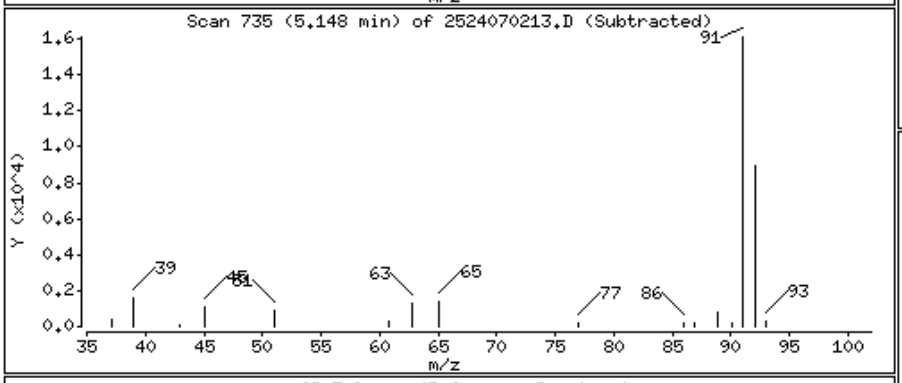
Purge Volume: 5.0 Operator: TMP

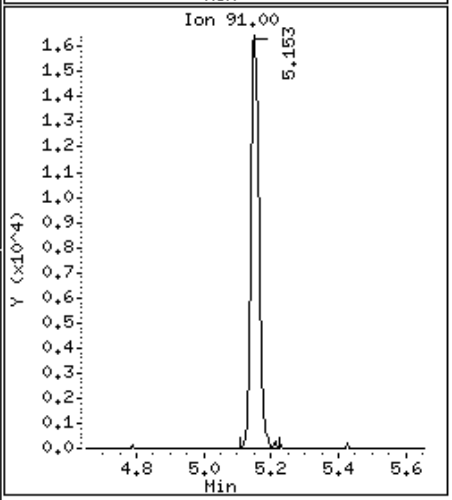
Column phase: DB-VRX Column diameter: 0.25

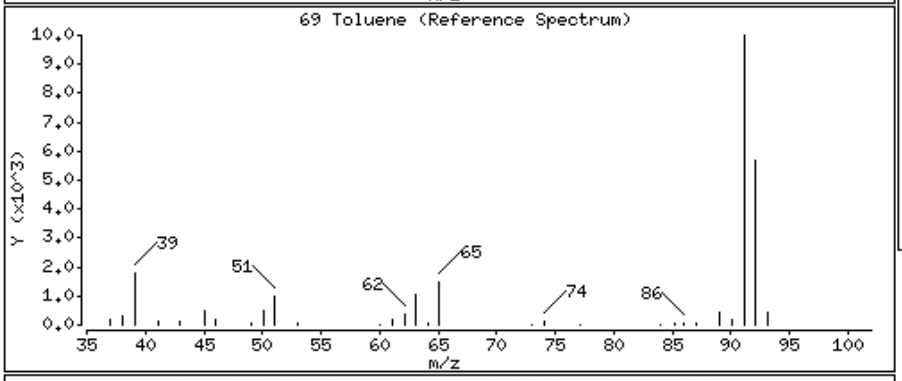
69 Toluene Concentration: 0.890182 ug/L

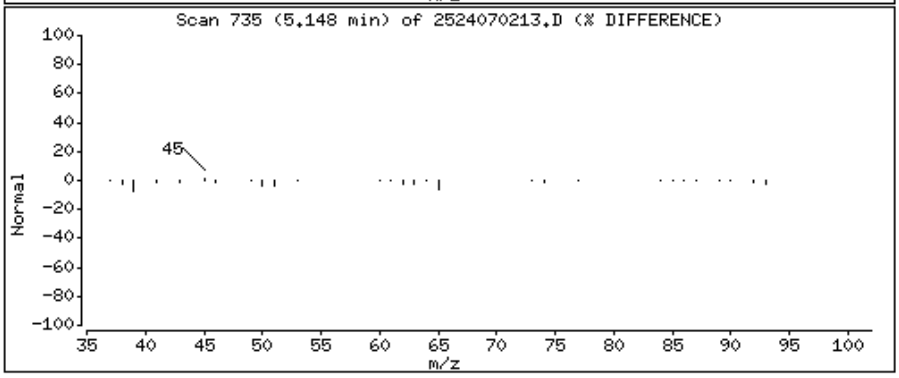












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 11

Date : 02-JUL-2024 14:13

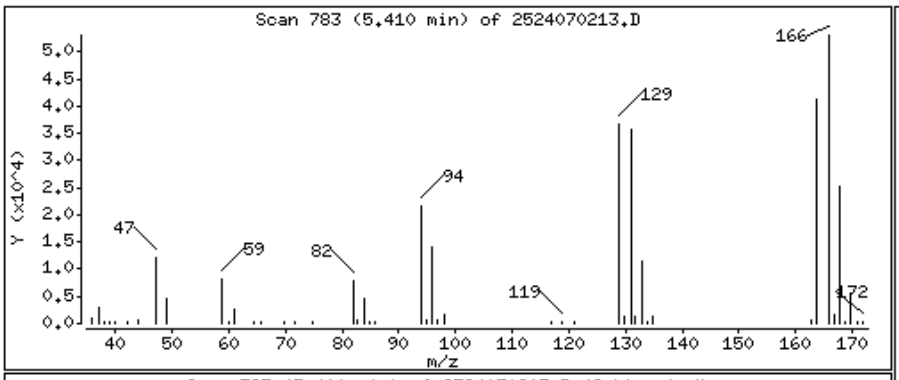
Client ID: ICT14C_062024 Instrument: ms25.i

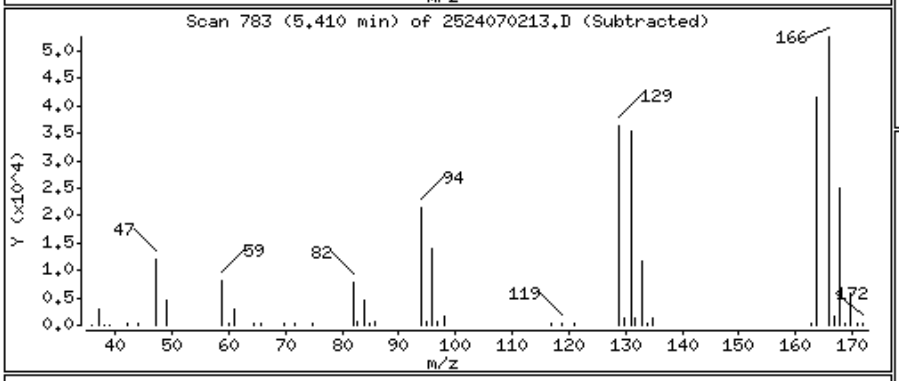
Sample Info: 3366026020;;1;;;;;

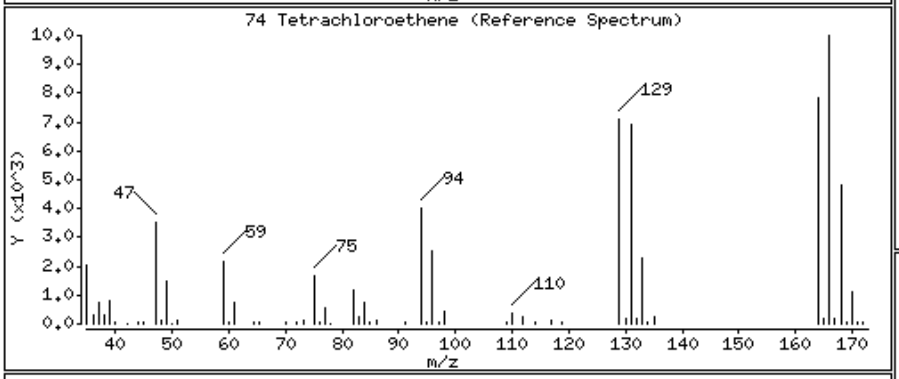
Purge Volume: 5.0 Operator: TMP

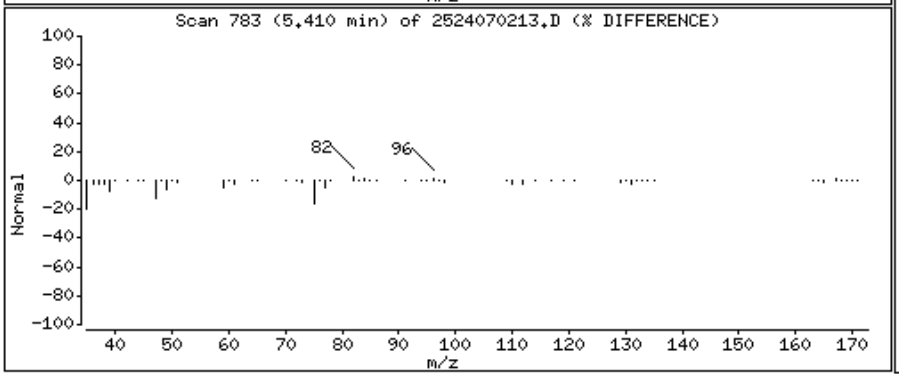
Column phase: DB-VRX Column diameter: 0.25

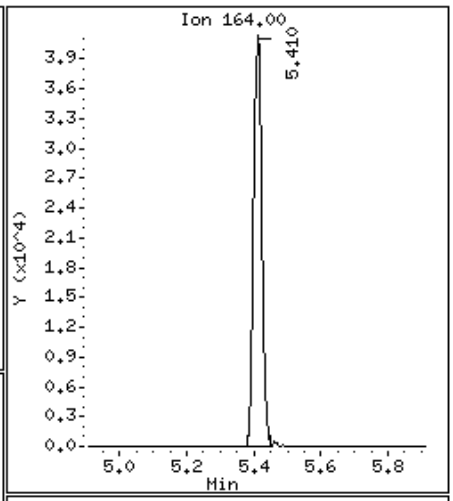
74 Tetrachloroethene Concentration: 10.6779 ug/L

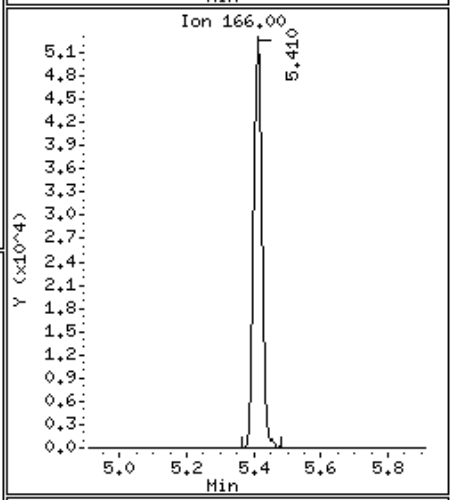


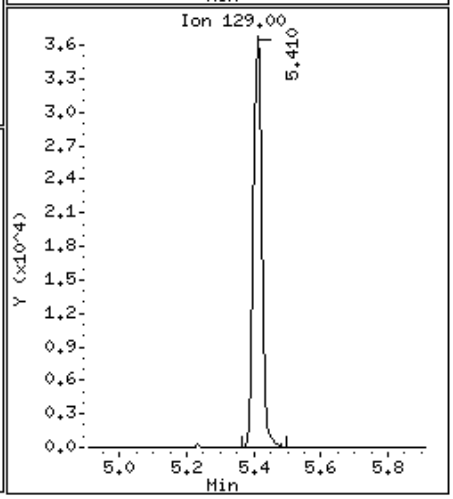












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 12

Date : 02-JUL-2024 14:13

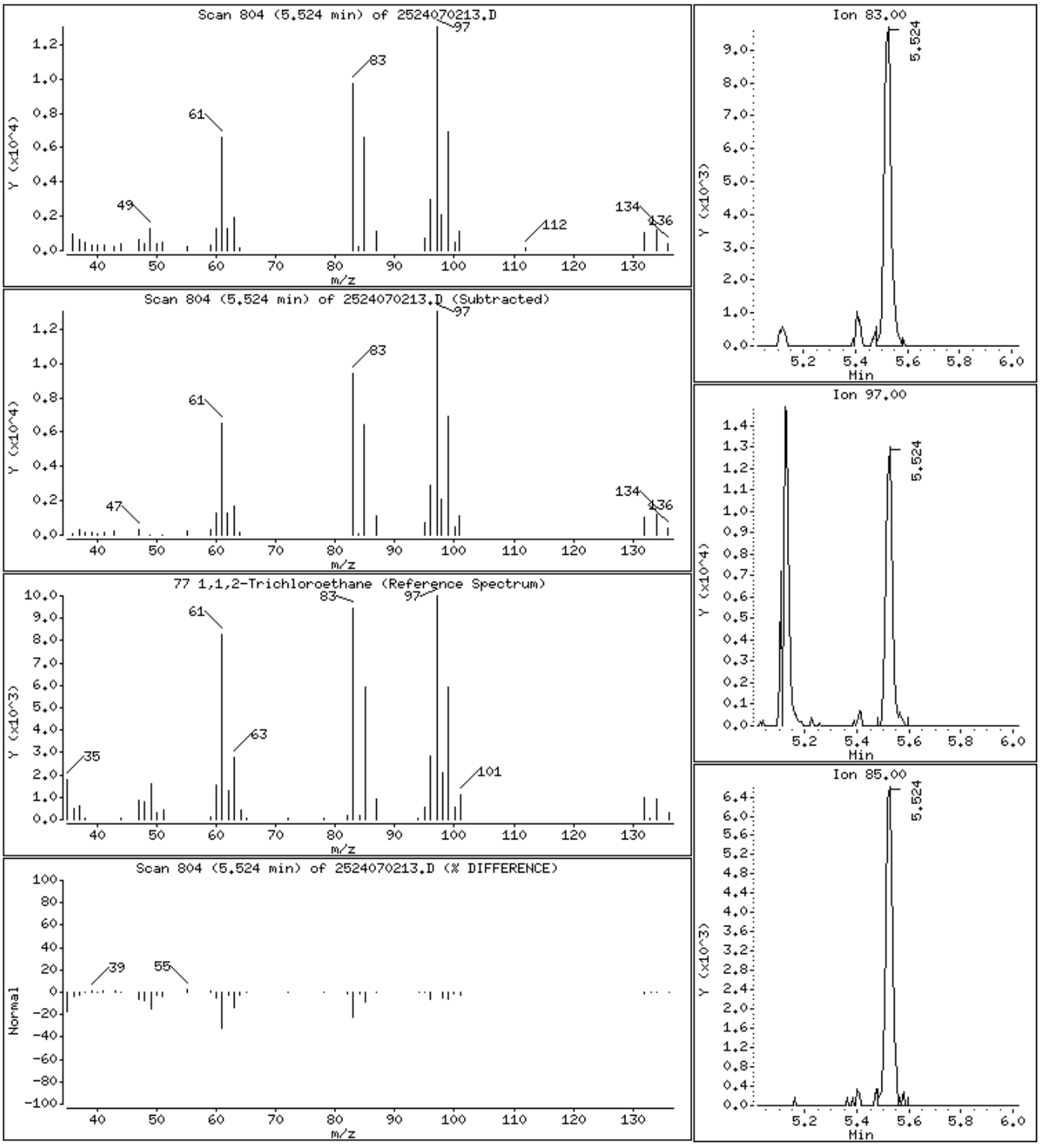
Client ID: ICT14C_062024 Instrument: ms25.i

Sample Info: 3366026020;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

77 1,1,2-Trichloroethane Concentration: 3.30577 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 13

Date : 02-JUL-2024 14:13

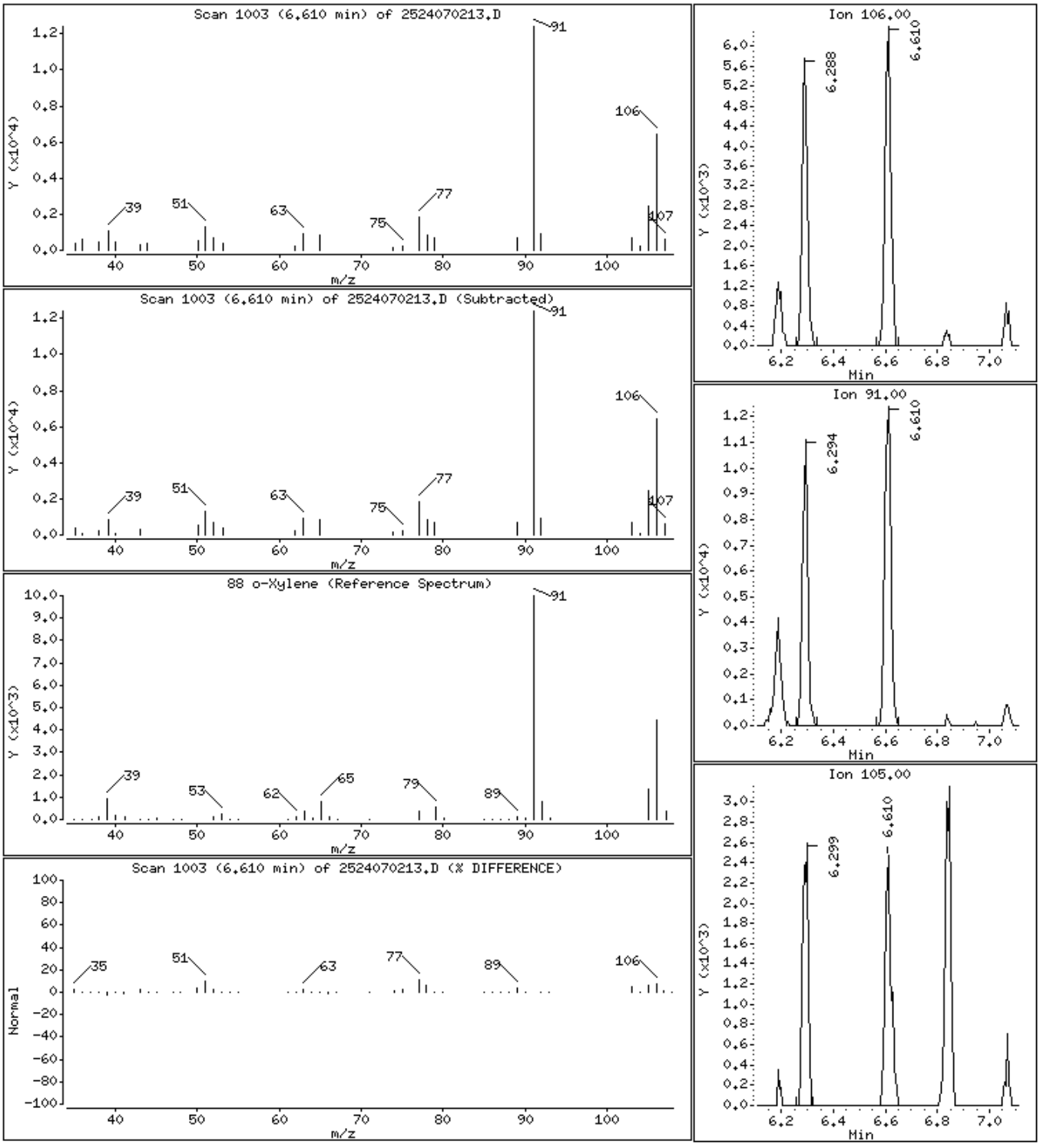
Client ID: ICT14C_062024 Instrument: ms25.i

Sample Info: 3366026020;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

88 o-Xylene Concentration: 0.788704 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 14

Date : 02-JUL-2024 14:13

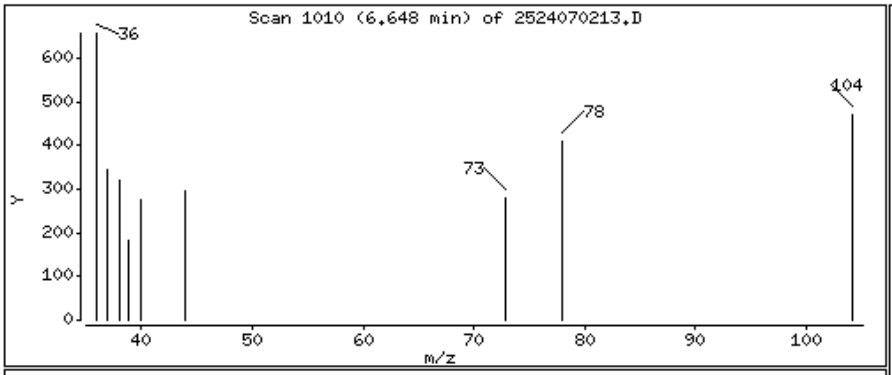
Client ID: ICT14C_062024 Instrument: ms25.i

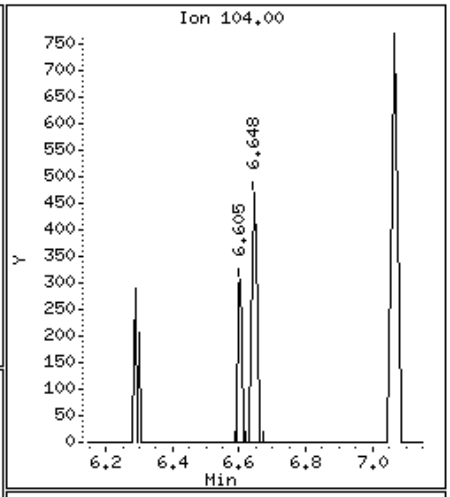
Sample Info: 3366026020;;1;;;;;

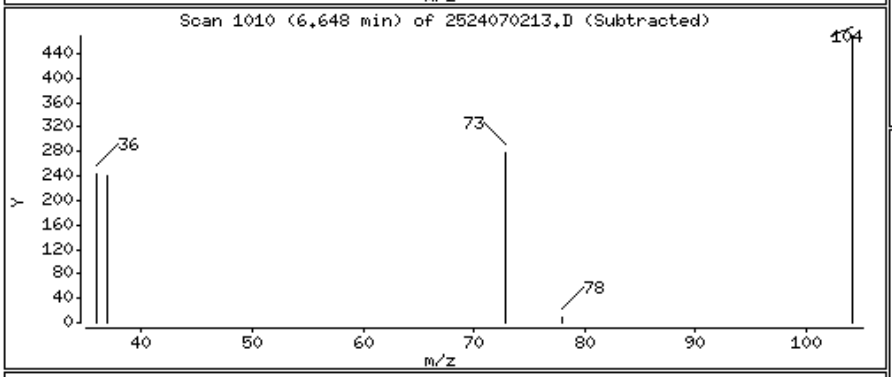
Purge Volume: 5.0 Operator: TMP

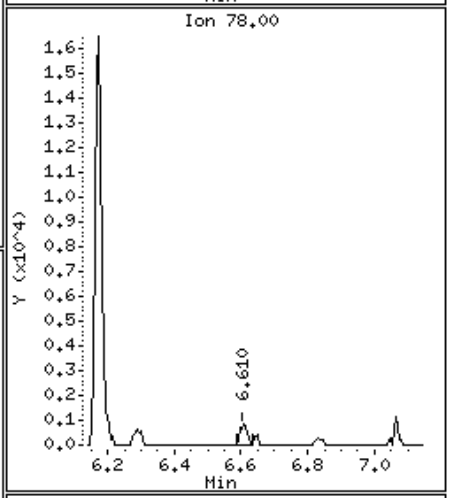
Column phase: DB-VRX Column diameter: 0.25

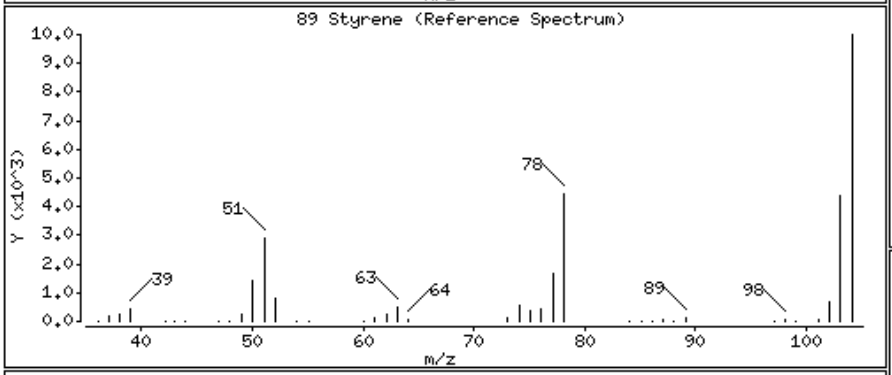
89 Styrene Concentration: 0.319536 ug/L

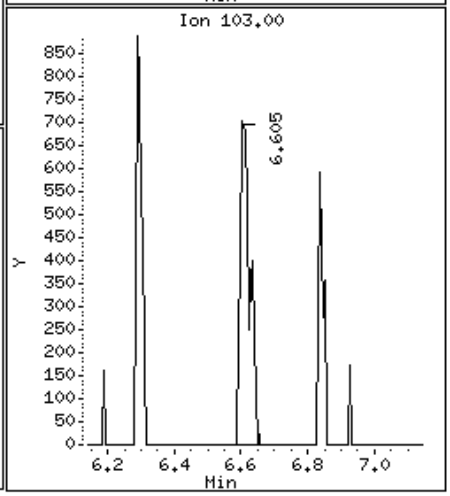


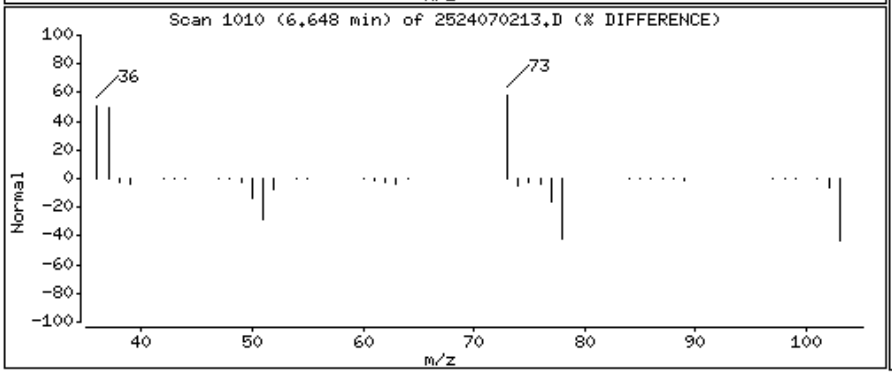












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 15

Date : 02-JUL-2024 14:13

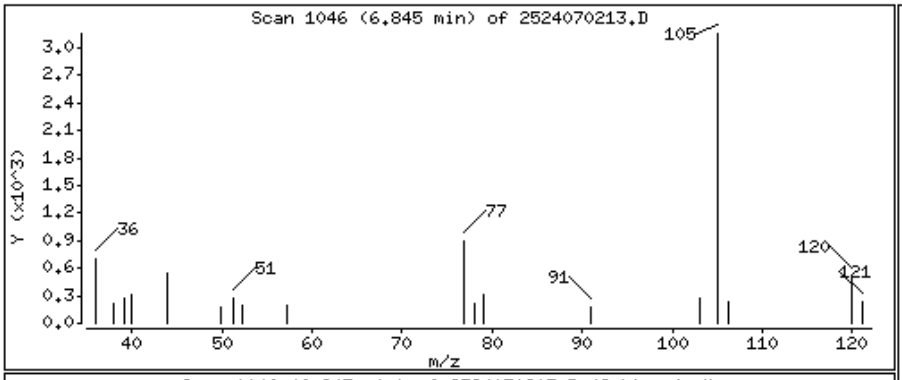
Client ID: ICT14C_062024 Instrument: ms25.i

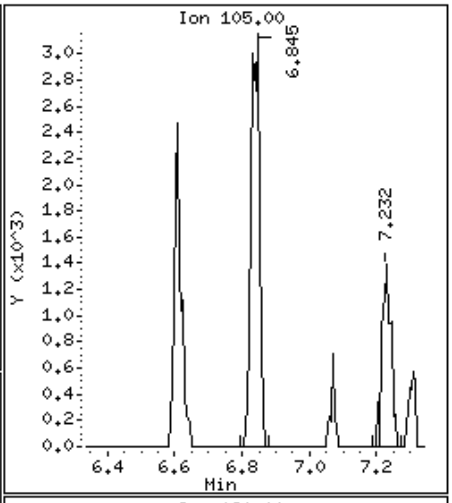
Sample Info: 3366026020;;1;;;;;

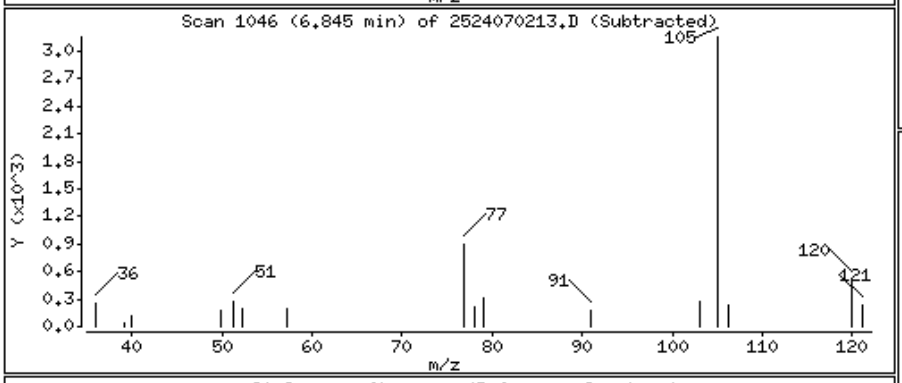
Purge Volume: 5.0 Operator: TMP

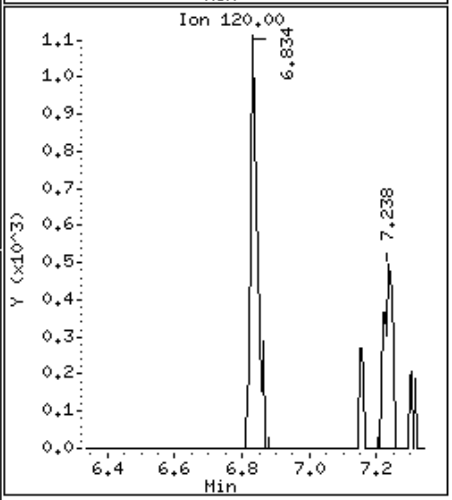
Column phase: DB-VRX Column diameter: 0.25

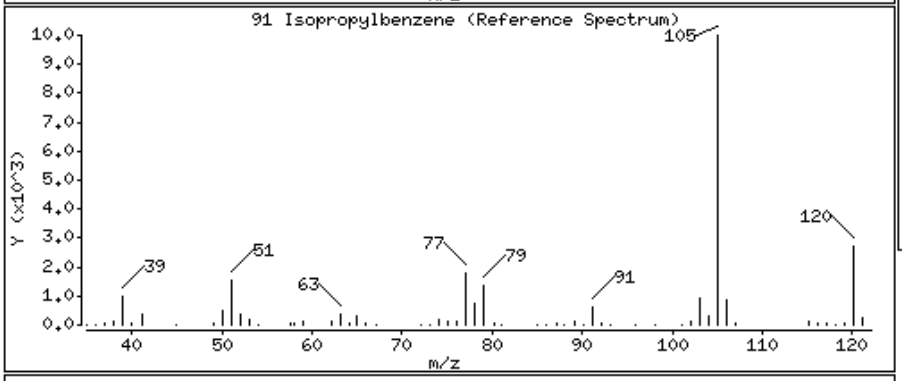
91 Isopropylbenzene Concentration: 0.358097 ug/L

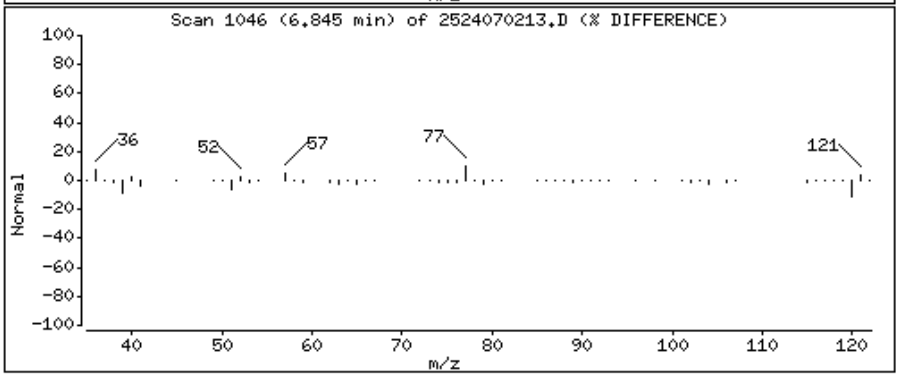












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D Page 16

Date : 02-JUL-2024 14:13

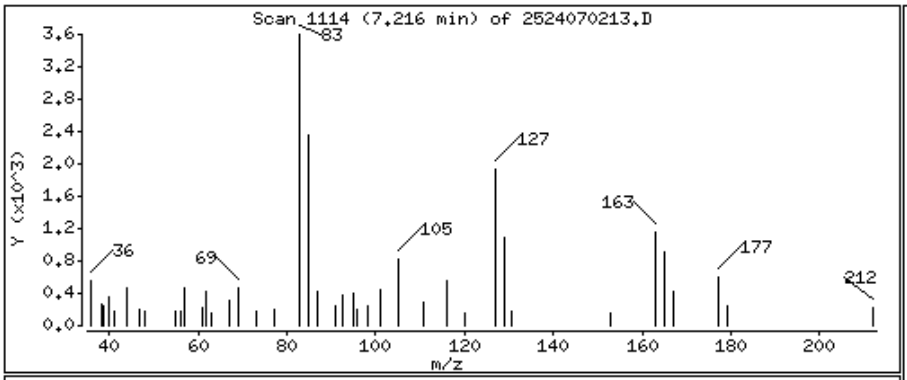
Client ID: ICT14C_062024 Instrument: ms25.i

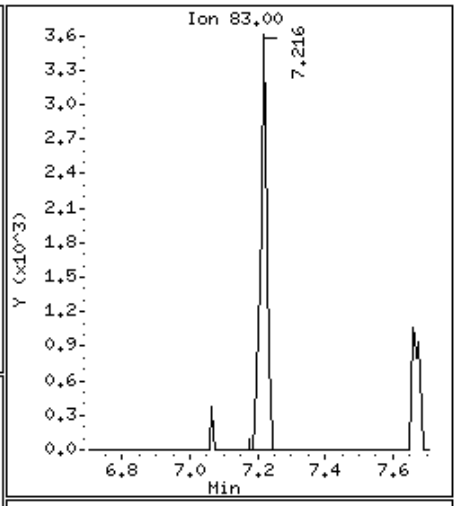
Sample Info: 3366026020;;1;;;;;

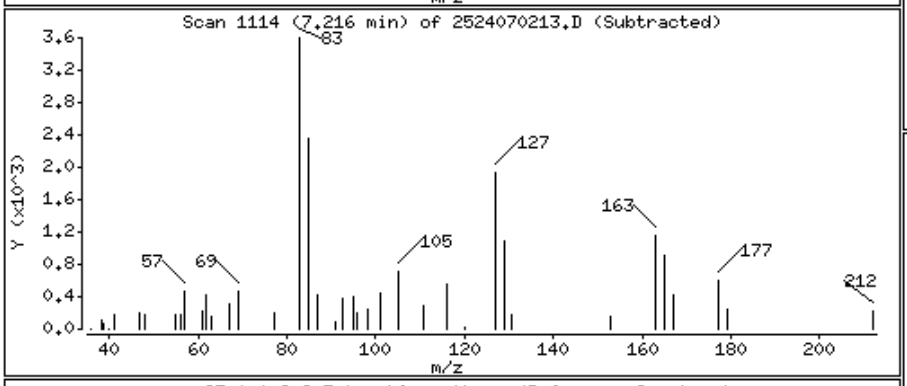
Purge Volume: 5.0 Operator: TMP

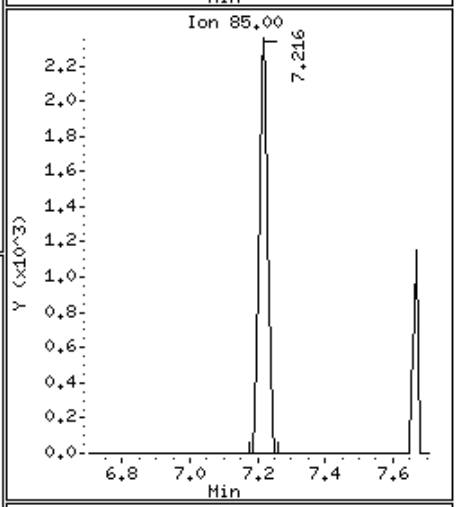
Column phase: DB-VRX Column diameter: 0.25

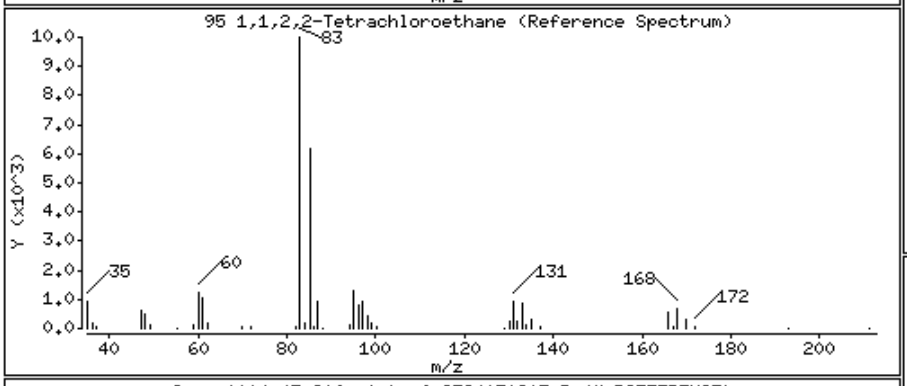
95 1,1,2,2-Tetrachloroethane Concentration: 0.722098 ug/L

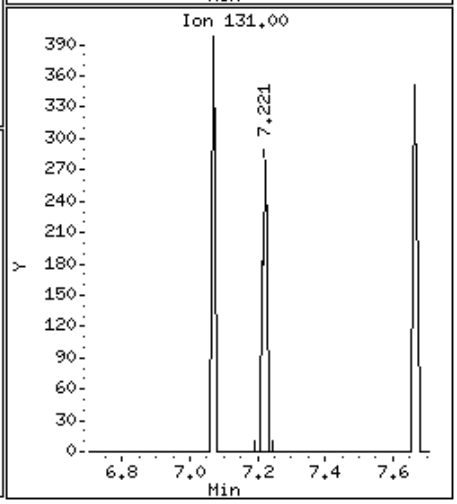


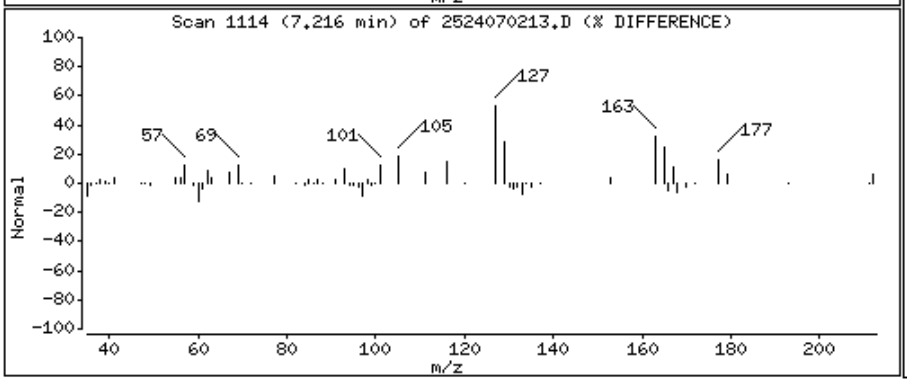










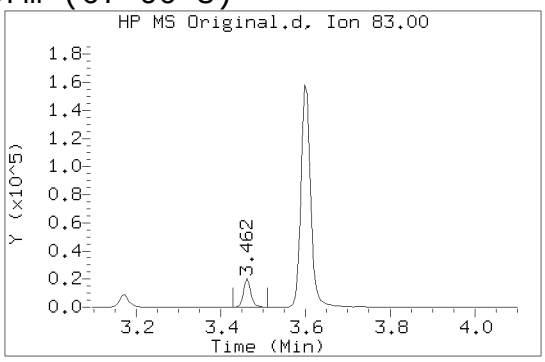


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070213.D
Inj Date : 02-JUL-2024 14:13
InstruID : ms25.i
LabSampID : 3366026020

Chloroform (67-66-3)

Reason Code:

BEFORE
MASS
83
AREA
24841
HEIGHT
20352
03-Jul-2024
03:26



AFTER
MASS
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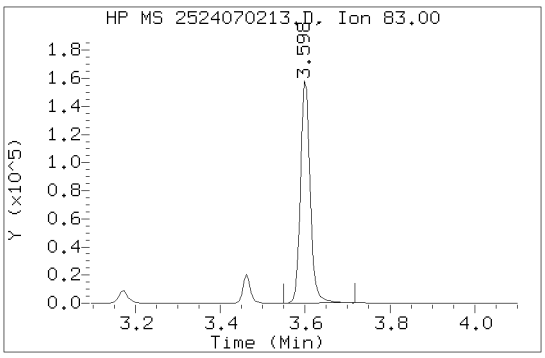

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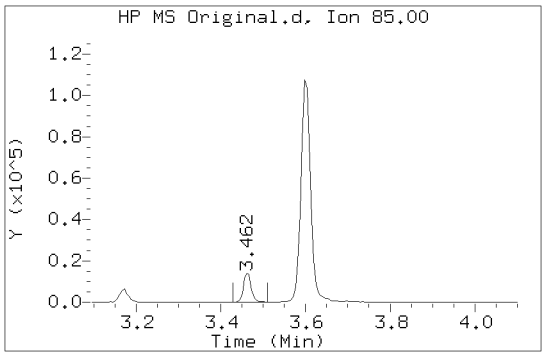

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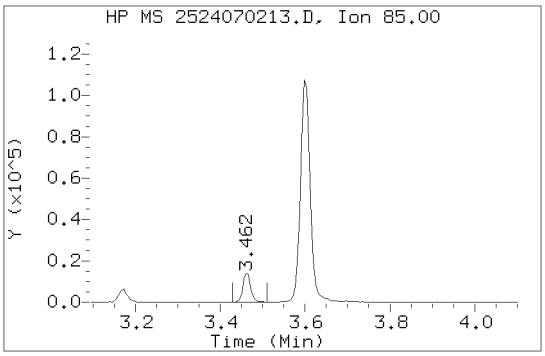

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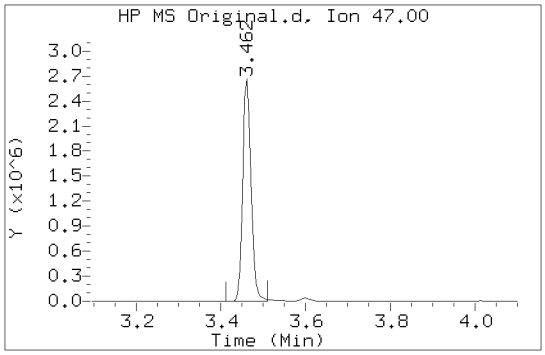

AFTER
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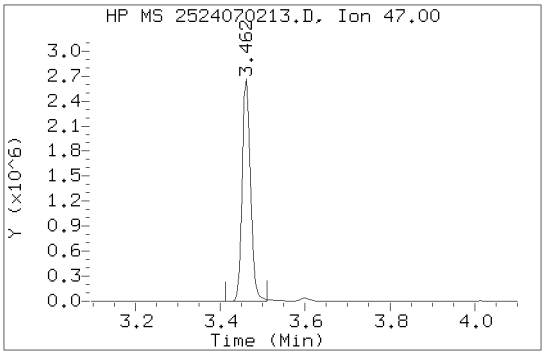

Fluorobenzene (462-06-6)

Reason Code:

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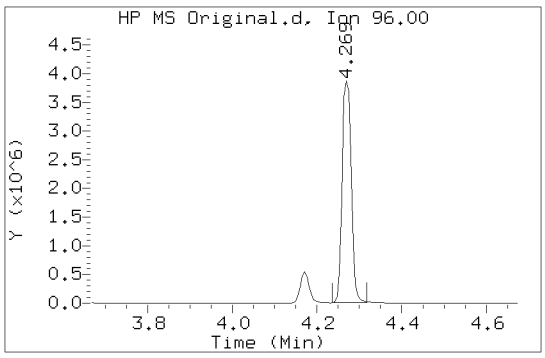

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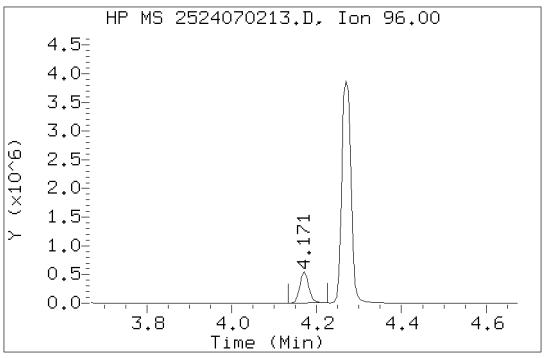
12:43



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Inj Date : 02-JUL-2024 14:13
InstruID : ms25.i
LabSampID : 3366026020

Fluorobenzene (462-06-6)

Reason Code:

BEFORE

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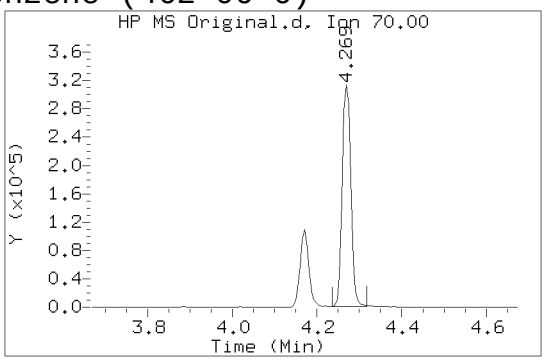
HEIGHT
313208
03-Jul-2024
03:26



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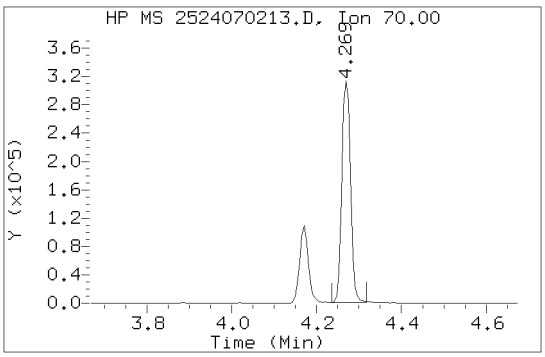

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:44
Client ID: ICT14C_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407021
Inj Date: 02-JUL-2024 14:13
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
tert-Amyl Ethylether
2-Butanone
1-Chlorobutane
Chloromethane
1,1-Dichloro-2-propanone
Dichlorofluoromethane
Ethyl Ether
Ethyl tert-butyl ether
2-Hexanone
Methyl acrylate
Methylene Chloride
1,1,1-Trichloroethane
tert-Amyl Alcohol
Bromodichloromethane
Carbon Tetrachloride
1-Chlorohexane
3-Chloro-1-propene
1,1-Dichloroethane
trans-1,3-Dichloropropene
Ethyl methacrylate
Ethylbenzene
Isobutyl alcohol
Methyl cyclohexane
2-Nitropropane
Trichlorofluoromethane

Data File: 2524070214.D Page 1
Report Date: 09-Jul-2024 12:44

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D
Lab Smp Id: 3366026021 Client Smp ID: ICT14D_062024
Inj Date : 02-JUL-2024 14:34
Operator : TMP Inst ID: ms25.i
Smp Info : 3366026021;;1;;;;;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
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Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.693	1.704	(0.492)	21585084	2200.89	2200.89(AQM)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	2.413	2.414	(0.701)	3458700	458.549	458.549(AQ)	
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.408	2.424	(0.577)	28124562	5301.30	5301.30(AQM)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.719	2.741	(0.704)	28224642	4581.03	4581.03(AQMH)	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	776739	105.141	105.141(QM)	
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524070214.D
Report Date: 09-Jul-2024 12:44

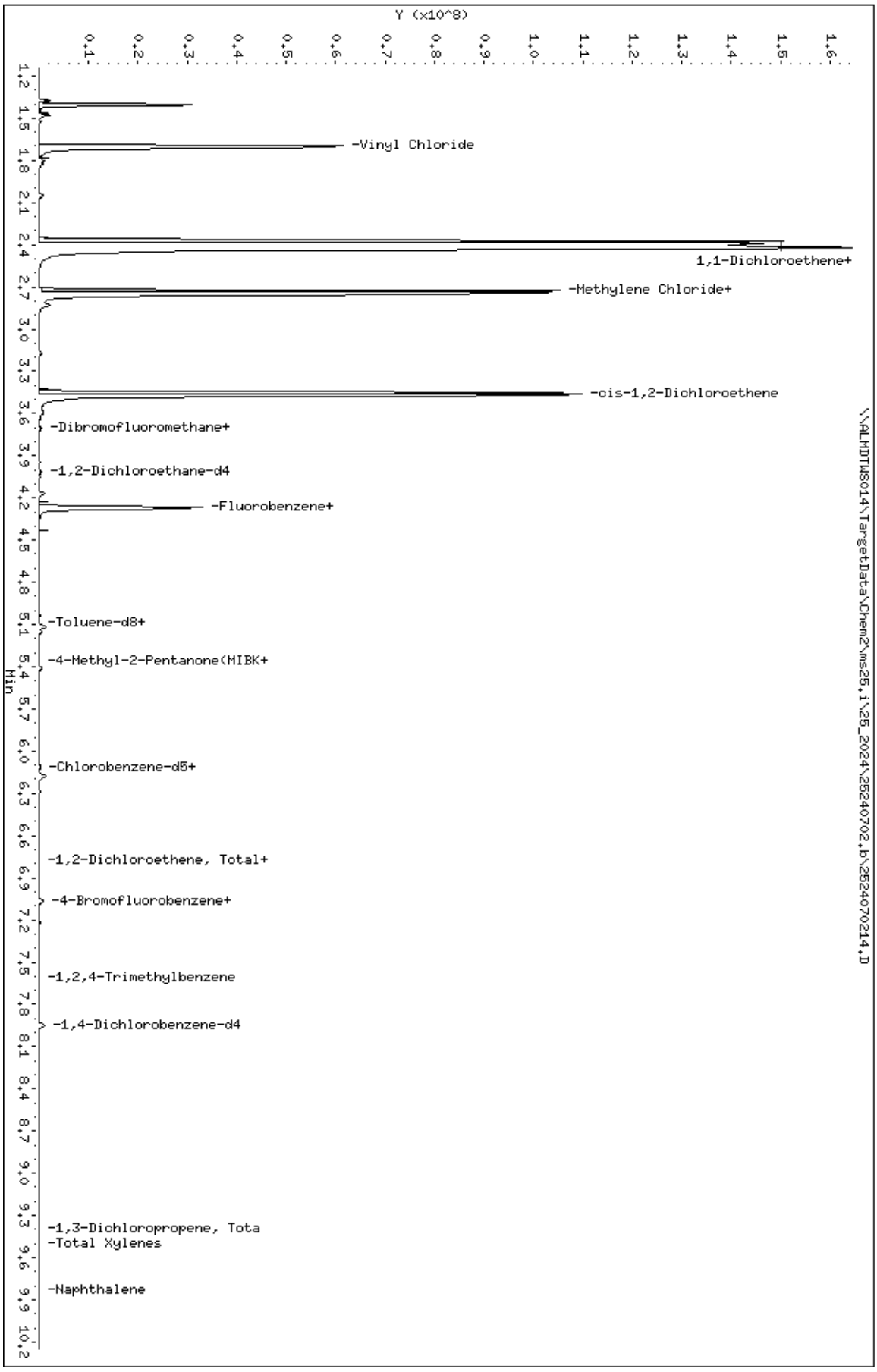
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.445	3.461	(0.826)	27885993	3722.78	3722.78(AQM)	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				28662732	3827.92	3827.92	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	3.587	3.587	(0.860)	152623	16.9810	16.9810(QM)	
	36 Chloroform	83	3.603	3.598	(0.864)	223592	20.5787	20.5787(QM)	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.701	(1.076)	191859	31.0125	31.0125(QM)	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(1.166)	225869	34.6345	34.6345(QM)	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	784061	30.0000	(QM)	
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	8455991	1358.86	1358.86(AQM)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	796826	31.9099	31.9099	
	69 Toluene	92	5.153	5.153	(0.835)	154206	9.74309	9.74309	
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	14667	3.34684	3.34684(a)	
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	5.414	5.409	(0.877)	119658	20.7623	20.7623	
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524070214.D Page 3
Report Date: 09-Jul-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	25501	5.24406	5.24406(H)	
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	315401	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	118331	12.4473	12.4473	
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	6.287	6.288	(1.019)	50922	3.79134	3.79134	
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	6.609	6.610	(1.071)	27221	2.53609	2.53609	
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	6.844	6.839	(0.861)	7870	0.49771	0.497706(a)	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	219283	29.9751	29.9751	
M	121 TOTAL XYLENES	106				78143	6.32743	6.32743	
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	7.215	7.204	(0.907)	31205	5.02167	5.02167(Q)	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	7260	0.40803	0.408032(a)	
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	23697	1.10924	1.10924	
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	264434	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	9.829	9.829	(1.236)	21849	1.43181	1.43181(a)	
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: ICT14D_062024
Sample Info: 33660260210;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 2

Date : 02-JUL-2024 14:34

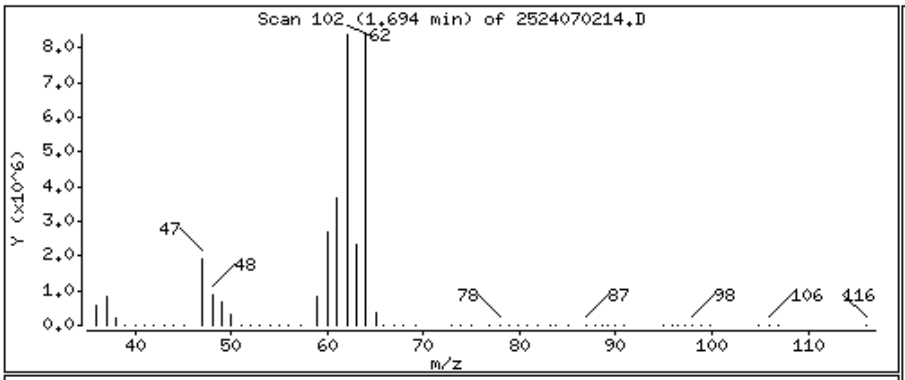
Client ID: ICT14D_062024 Instrument: ms25.i

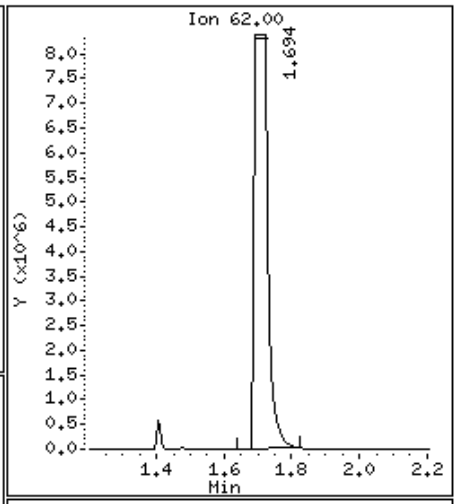
Sample Info: 3366026021;;1;;;;;

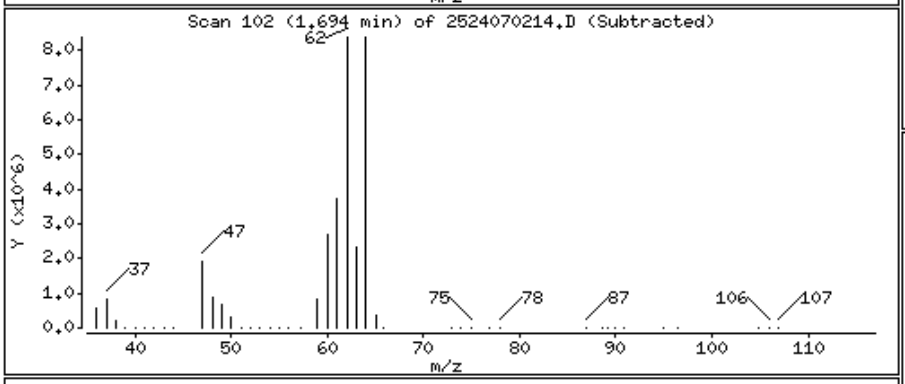
Purge Volume: 5.0 Operator: TMP

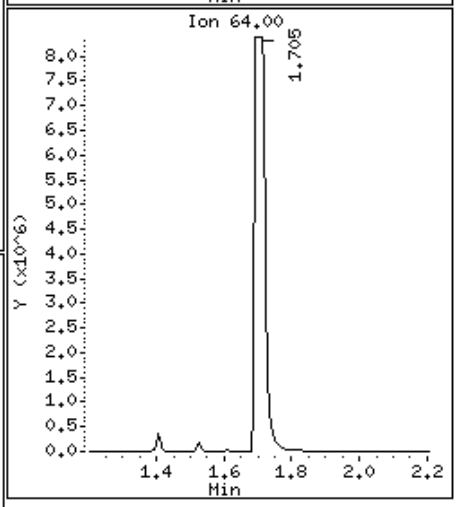
Column phase: DB-VRX Column diameter: 0.25

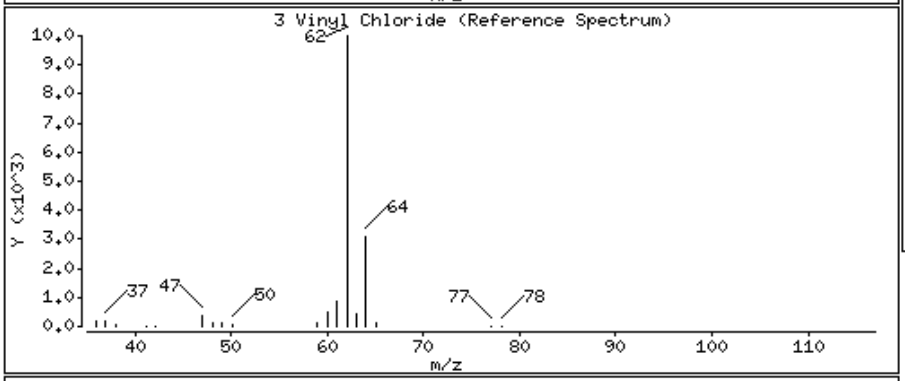
3 Vinyl Chloride Concentration: 2200.89 ug/L

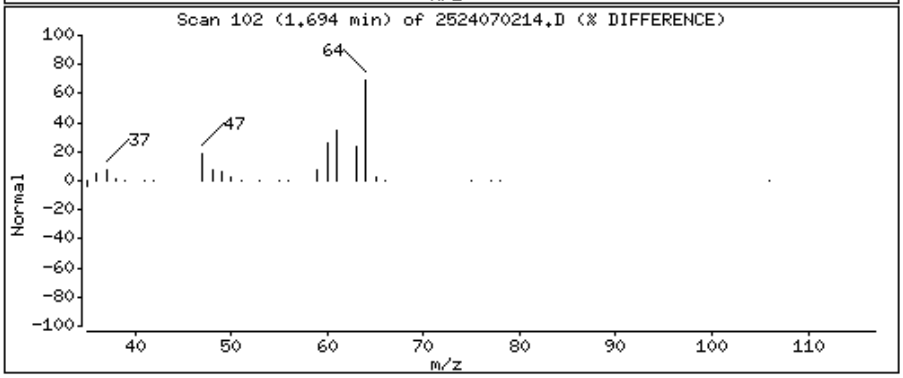












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 3

Date : 02-JUL-2024 14:34

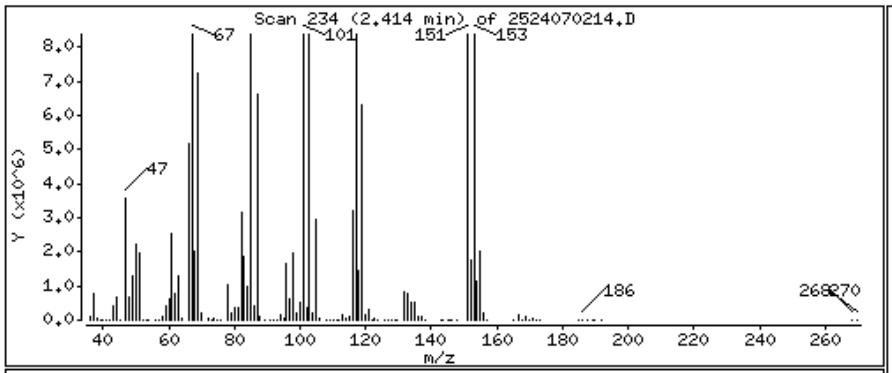
Client ID: ICT14D_062024 Instrument: ms25.i

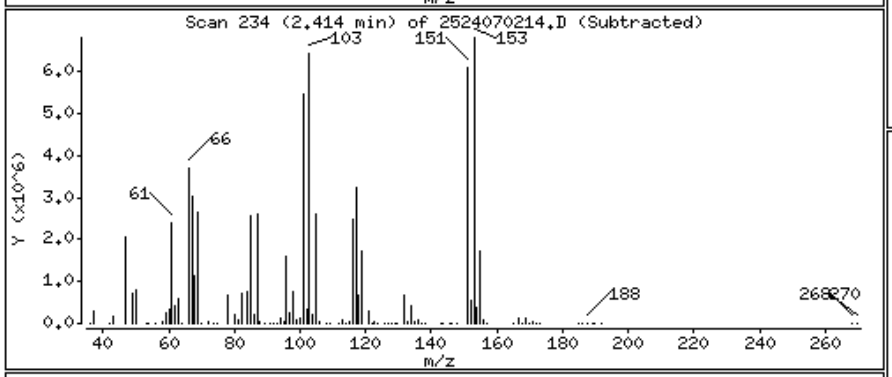
Sample Info: 3366026021;;1;;;;;

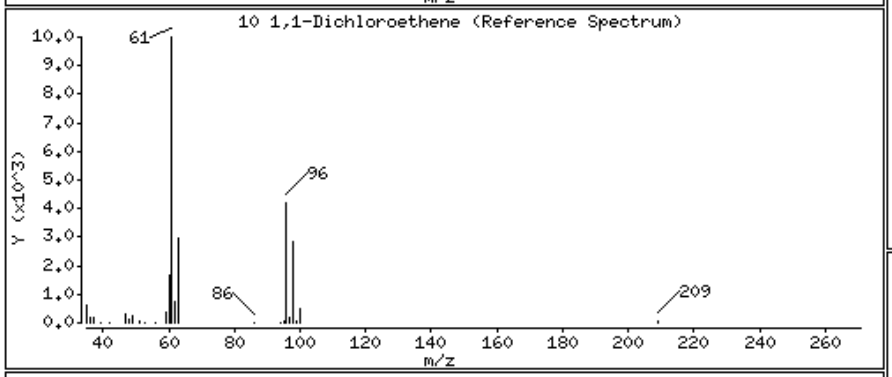
Purge Volume: 5.0 Operator: TMP

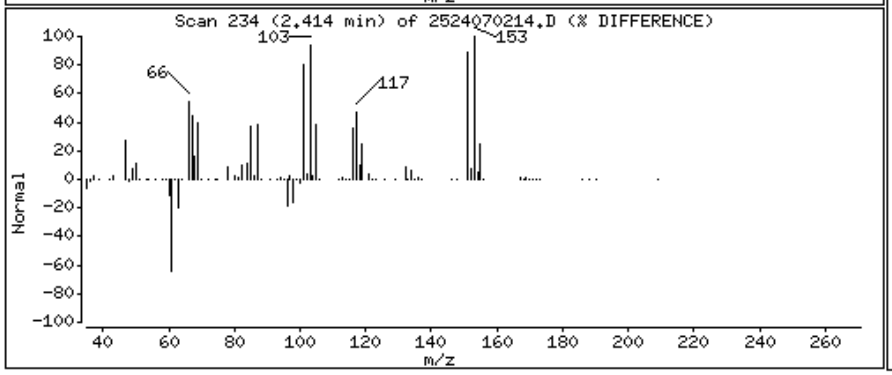
Column phase: DB-VRX Column diameter: 0.25

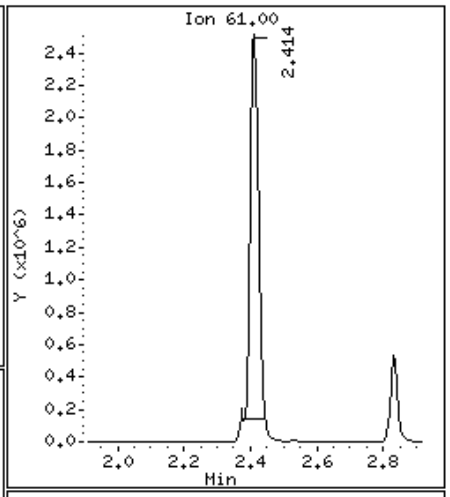
10 1,1-Dichloroethene Concentration: 458.549 ug/L

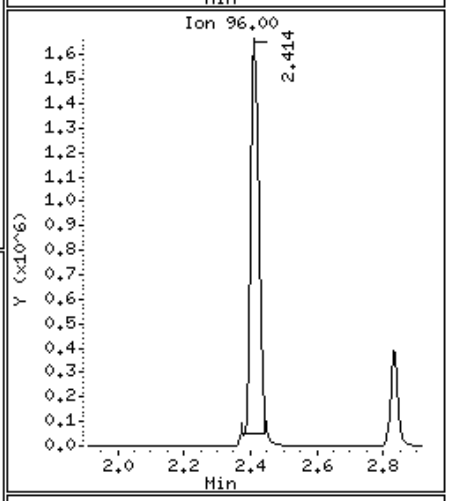


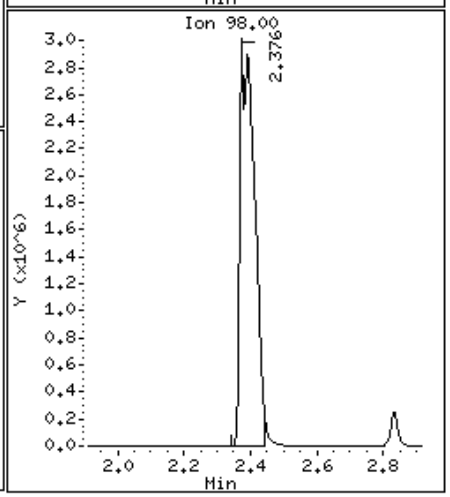












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 4

Date : 02-JUL-2024 14:34

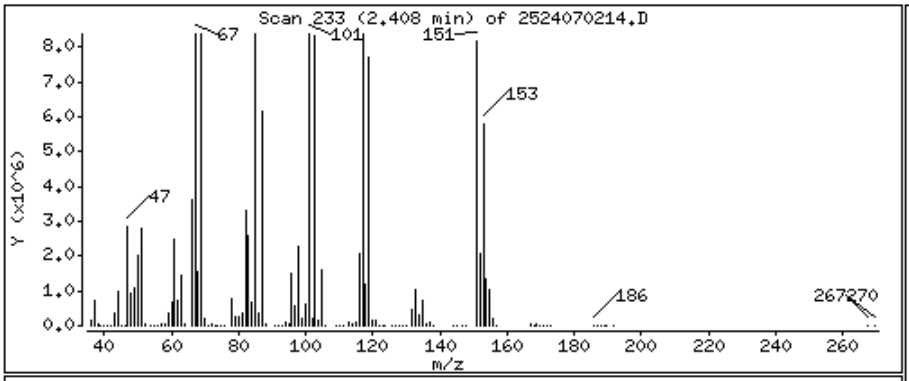
Client ID: ICT14D_062024 Instrument: ms25.i

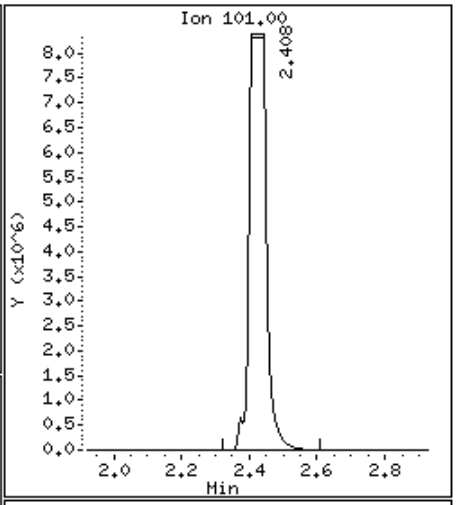
Sample Info: 3366026021;;1;;;;;

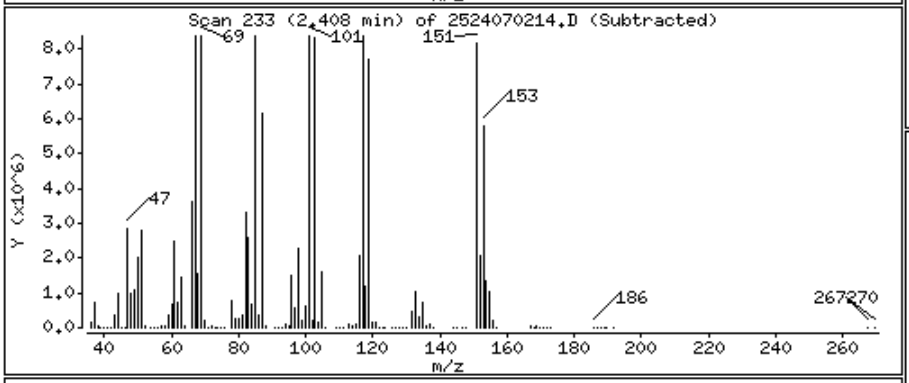
Purge Volume: 5.0 Operator: TMP

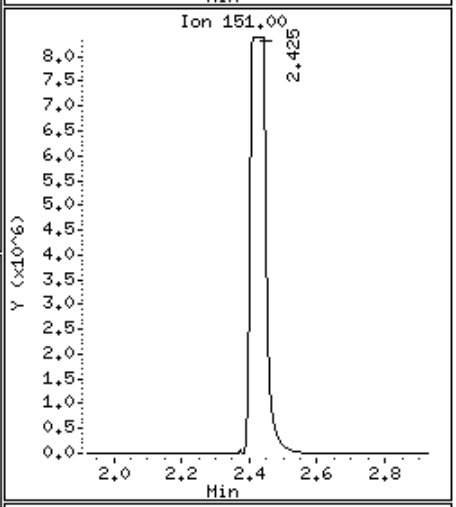
Column phase: DB-VRX Column diameter: 0.25

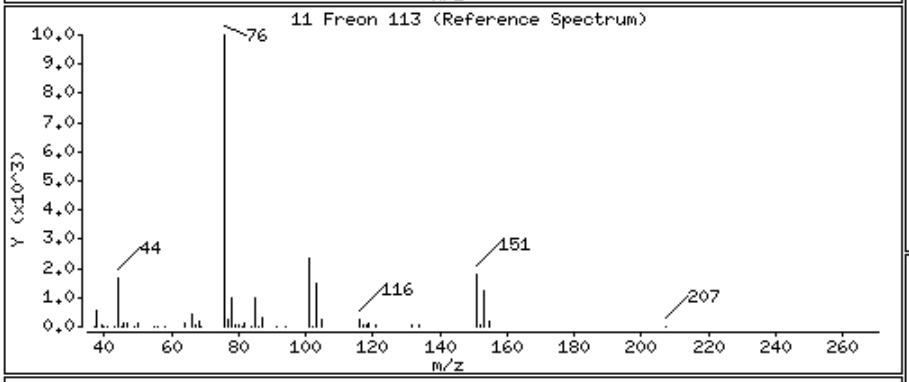
11 Freon 113 Concentration: 5301.30 ug/L

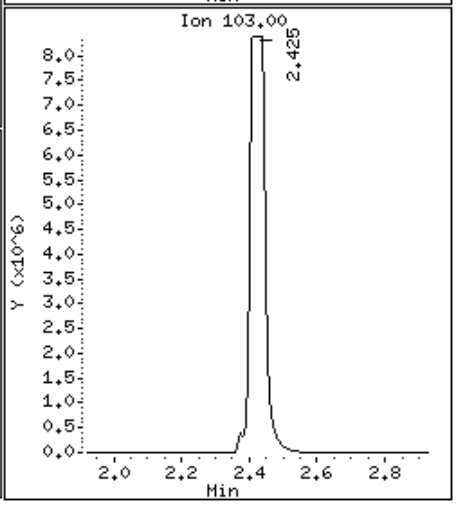


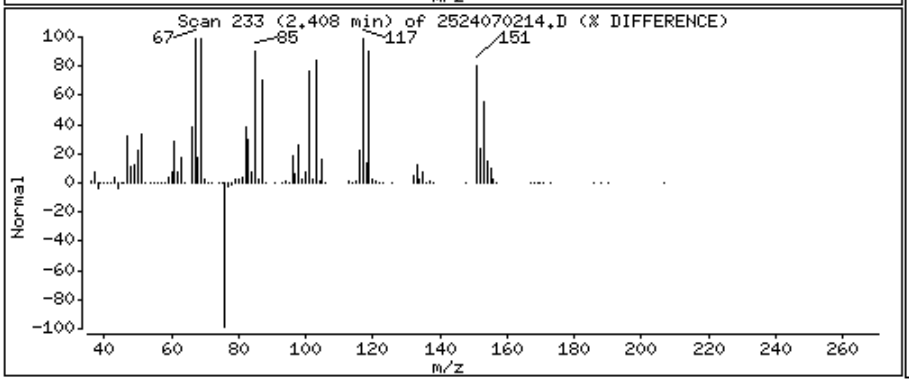












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 5

Date : 02-JUL-2024 14:34

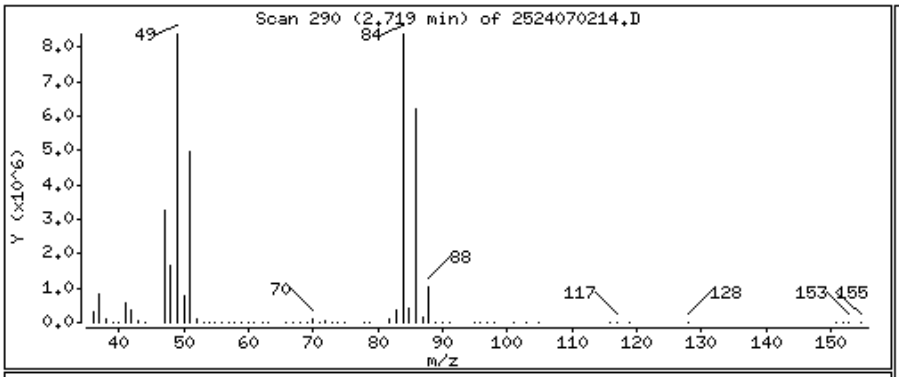
Client ID: ICT14D_062024 Instrument: ms25.i

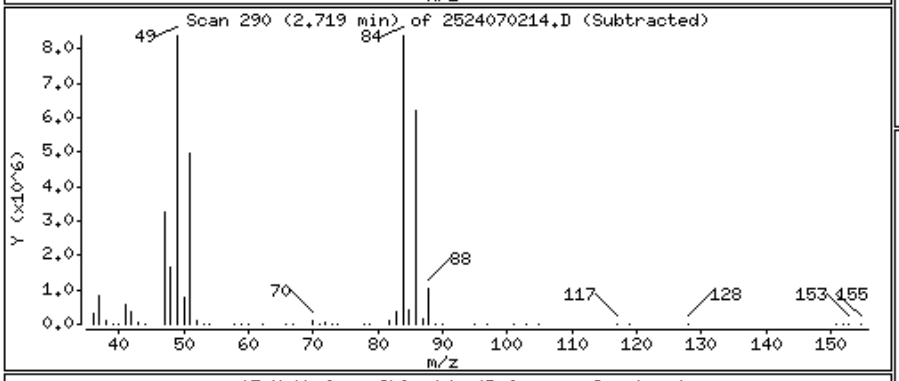
Sample Info: 3366026021;;1;;;;;

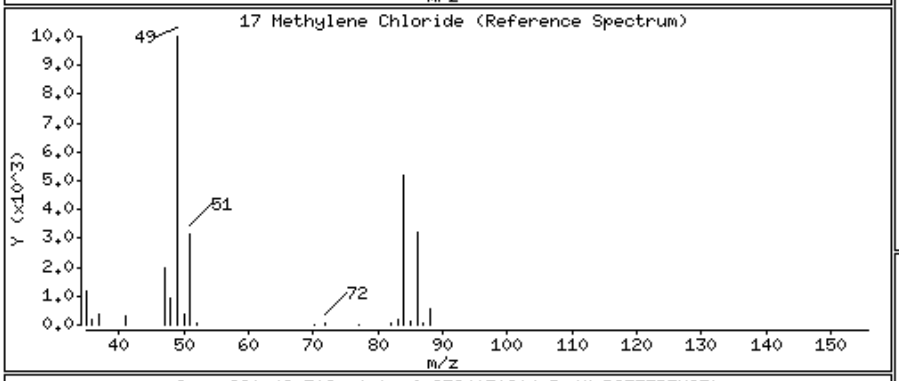
Purge Volume: 5.0 Operator: TMP

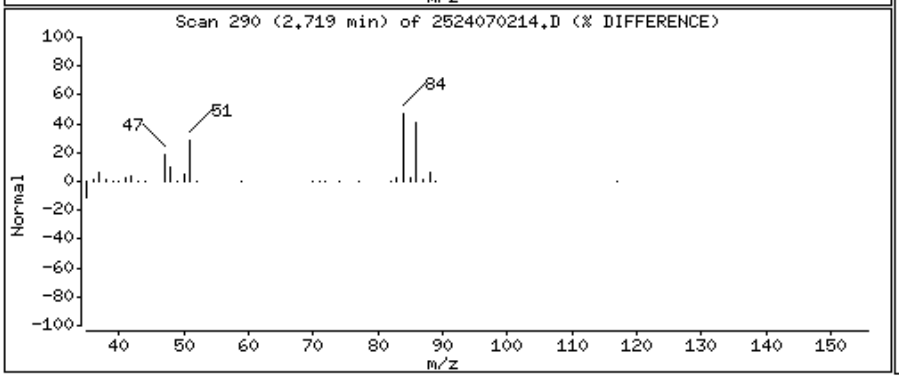
Column phase: DB-VRX Column diameter: 0.25

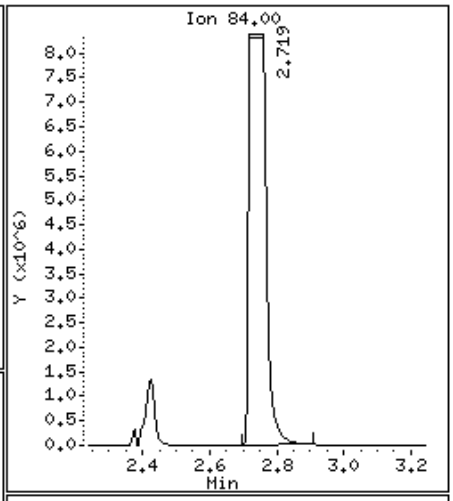
17 Methylene Chloride Concentration: 4581.03 ug/L

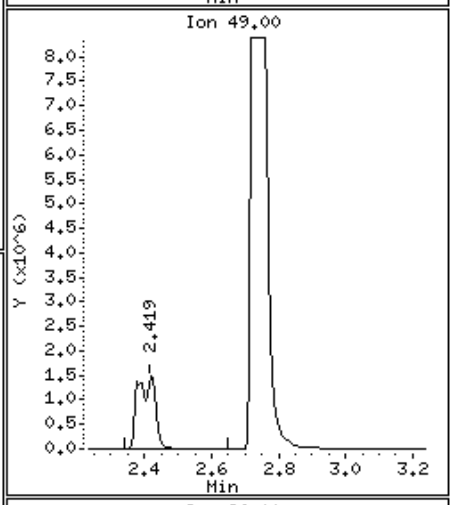


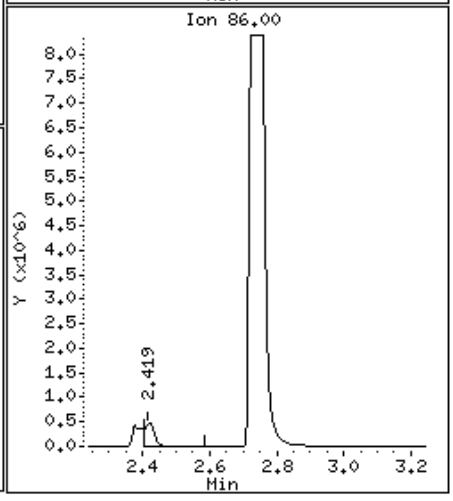












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 6

Date : 02-JUL-2024 14:34

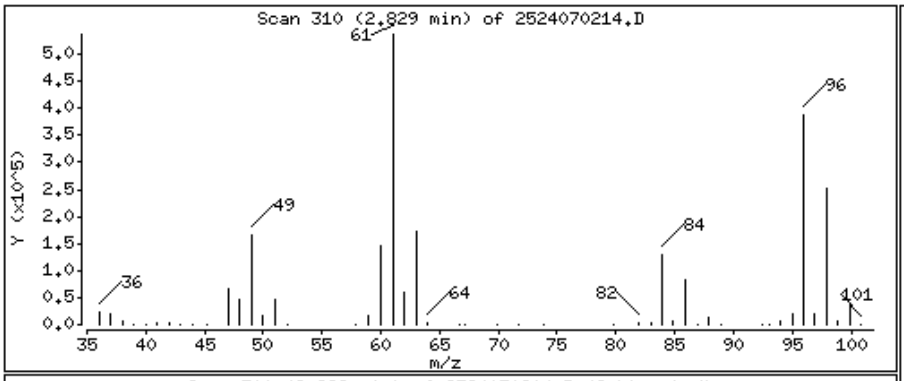
Client ID: ICT14D_062024 Instrument: ms25.i

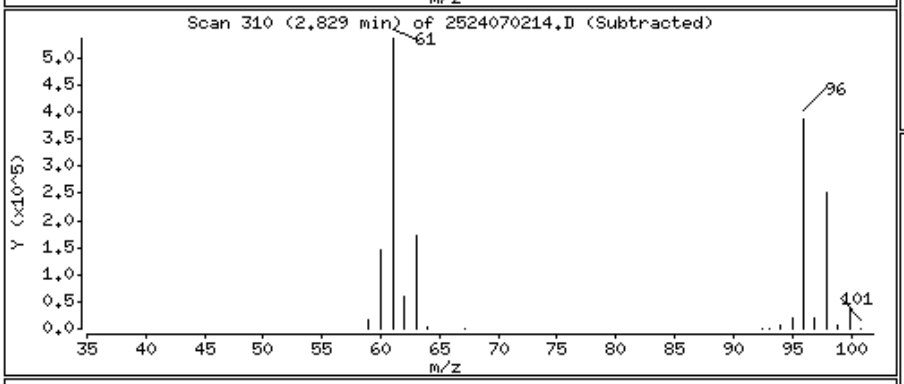
Sample Info: 3366026021;;1;;;;;

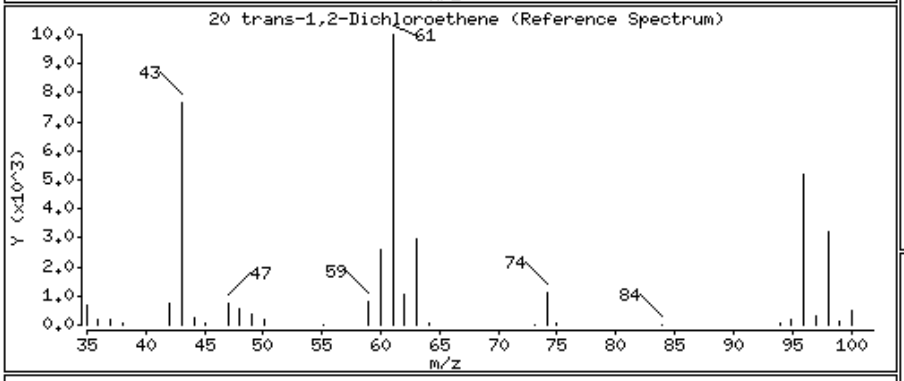
Purge Volume: 5.0 Operator: TMP

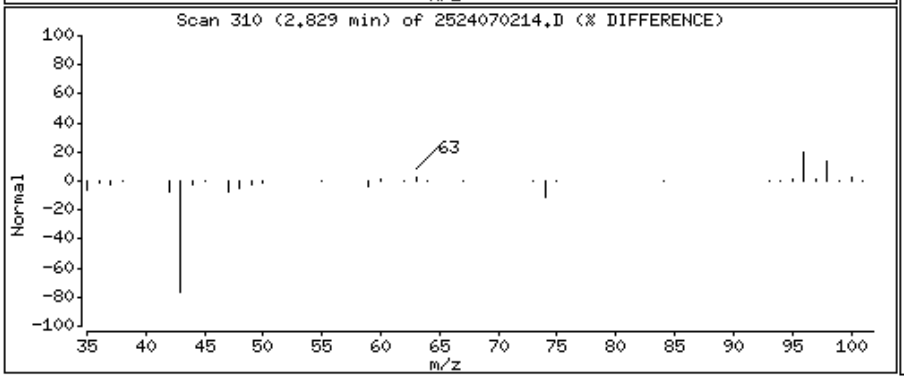
Column phase: DB-VRX Column diameter: 0.25

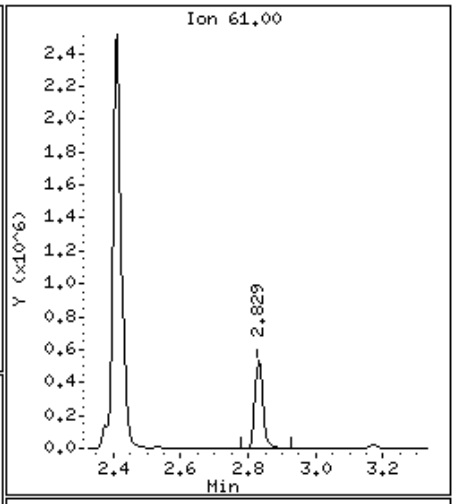
20 trans-1,2-Dichloroethene Concentration: 105.141 ug/L

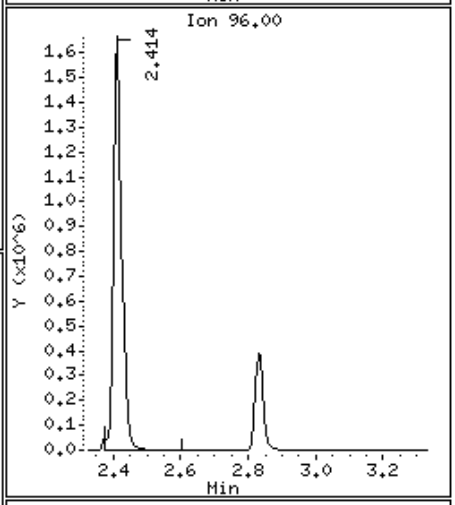


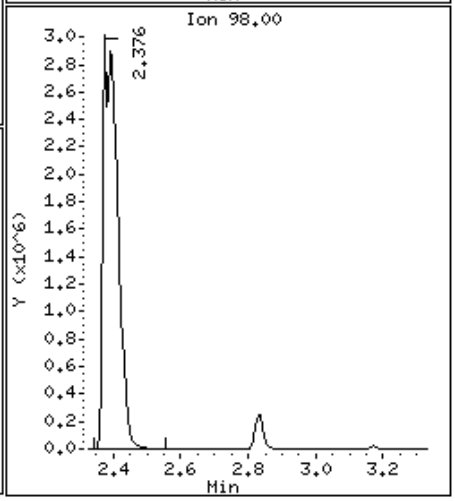












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 7

Date : 02-JUL-2024 14:34

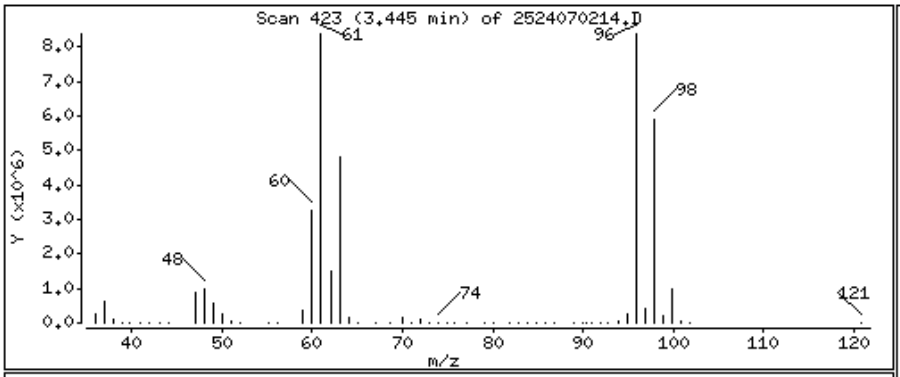
Client ID: ICT14D_062024 Instrument: ms25.i

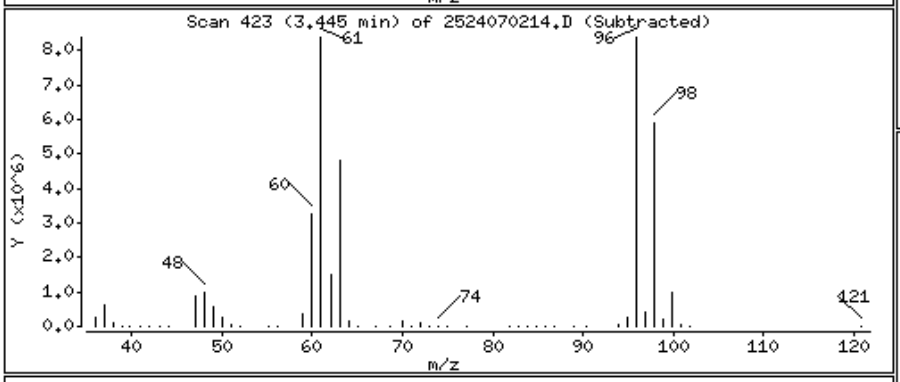
Sample Info: 3366026021;;1;;;;;

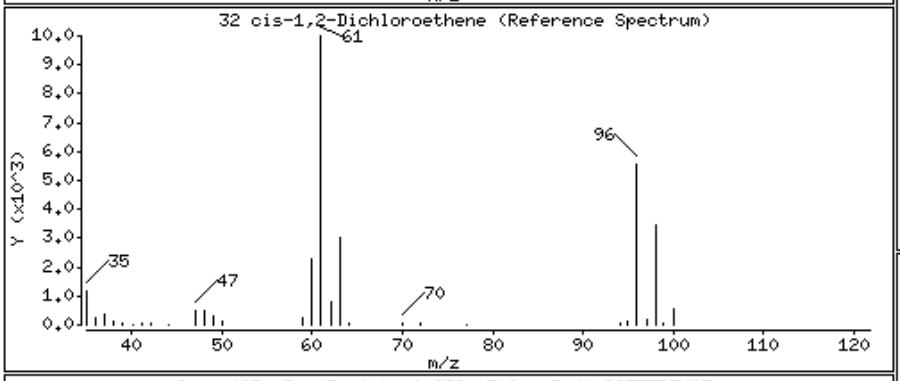
Purge Volume: 5.0 Operator: TMP

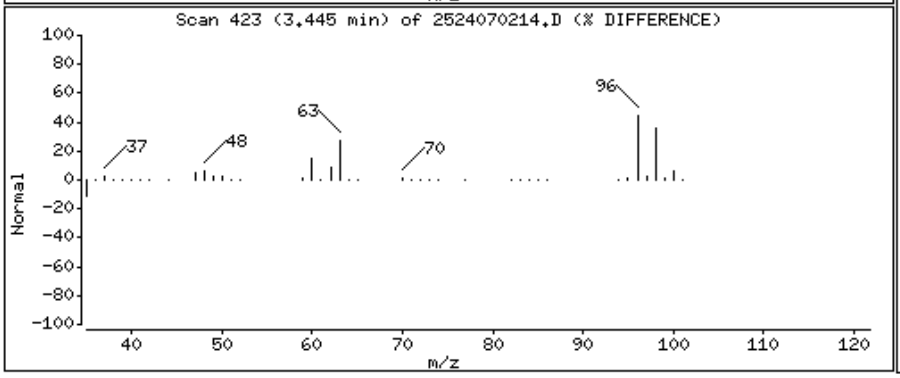
Column phase: DB-VRX Column diameter: 0.25

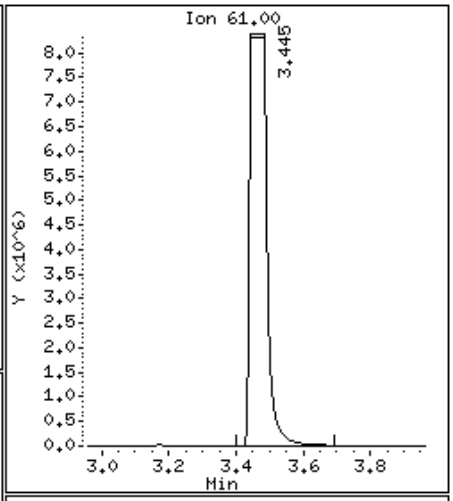
32 cis-1,2-Dichloroethene Concentration: 3722.78 ug/L

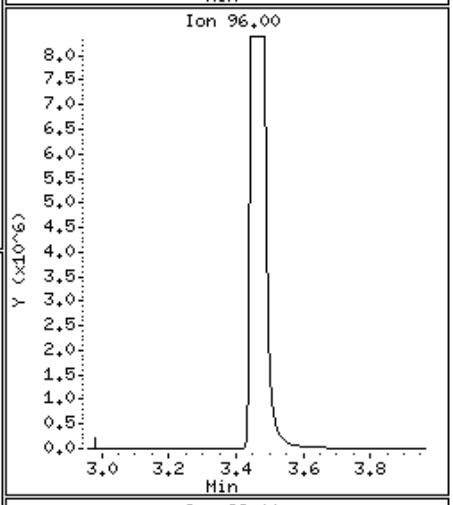


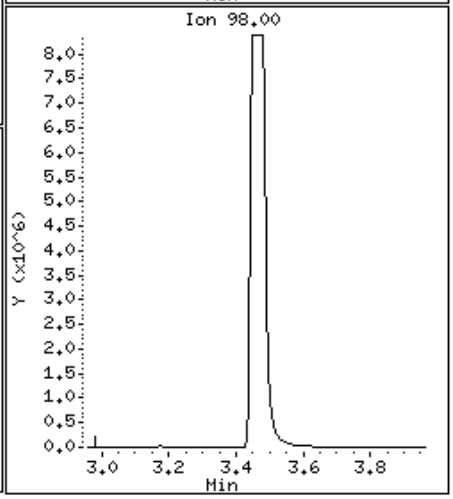












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 8

Date : 02-JUL-2024 14:34

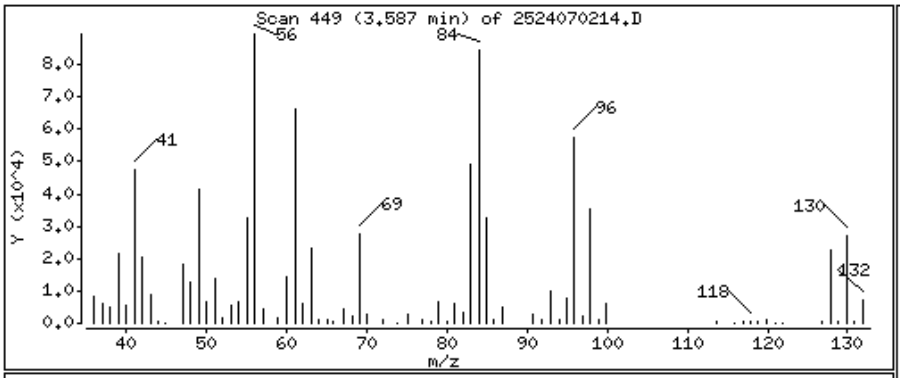
Client ID: ICT14D_062024 Instrument: ms25.i

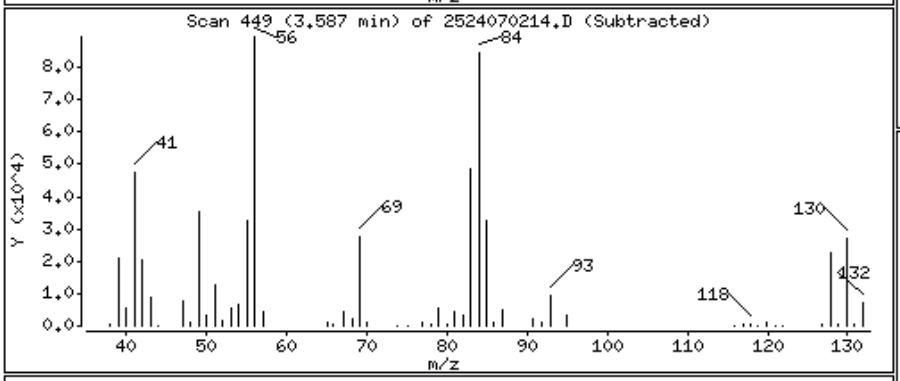
Sample Info: 3366026021;;1;;;;;

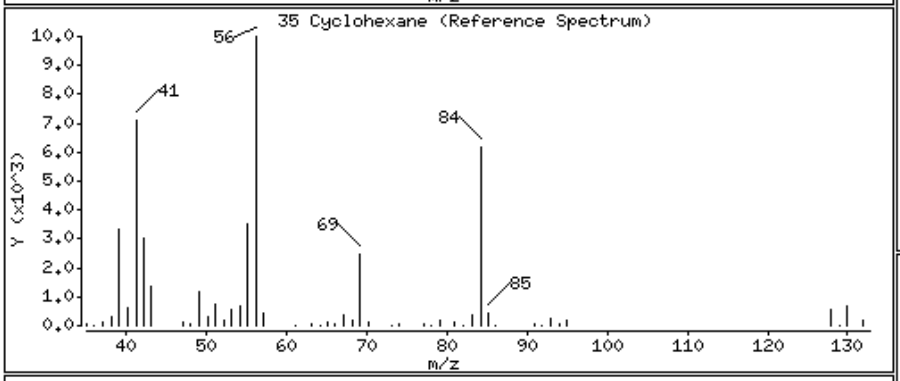
Purge Volume: 5.0 Operator: TMP

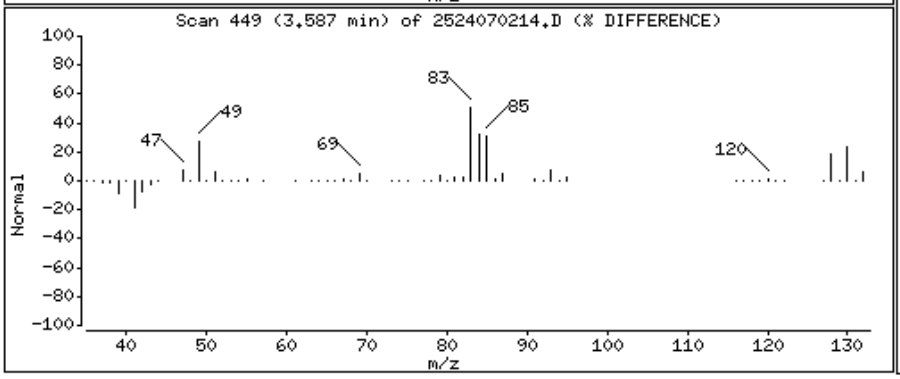
Column phase: DB-VRX Column diameter: 0.25

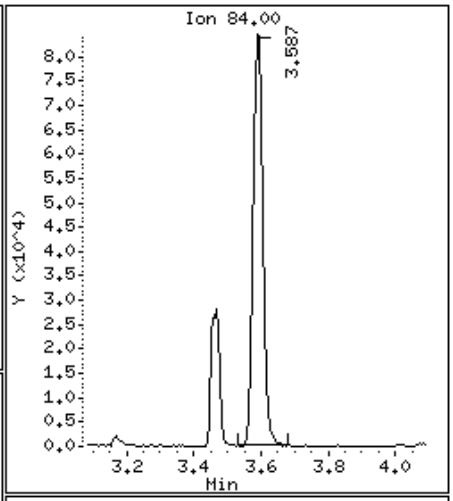
35 Cyclohexane Concentration: 16.9810 ug/L

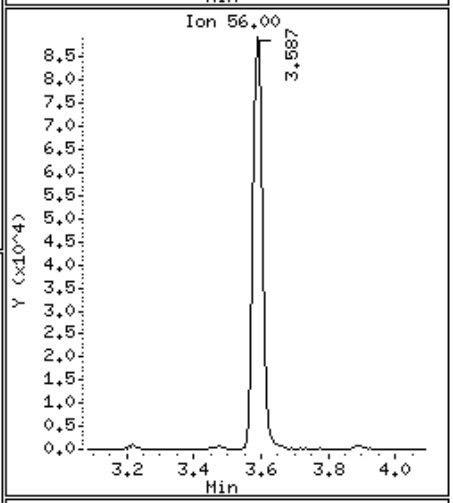


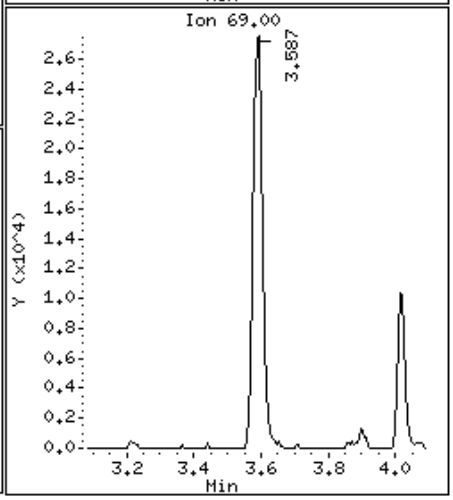












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 9

Date : 02-JUL-2024 14:34

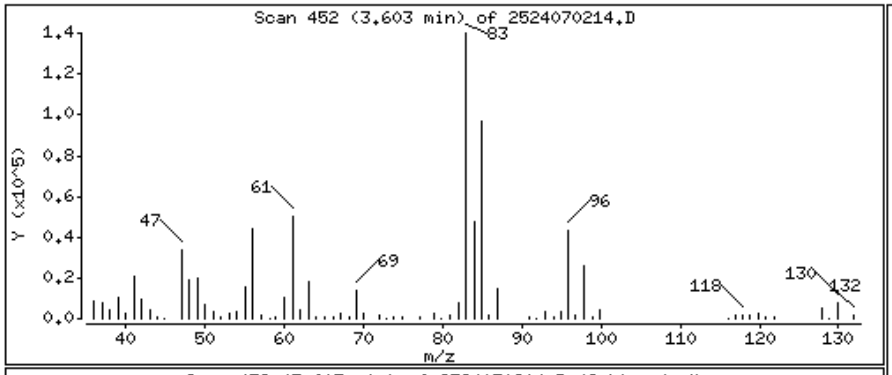
Client ID: ICT14D_062024 Instrument: ms25.i

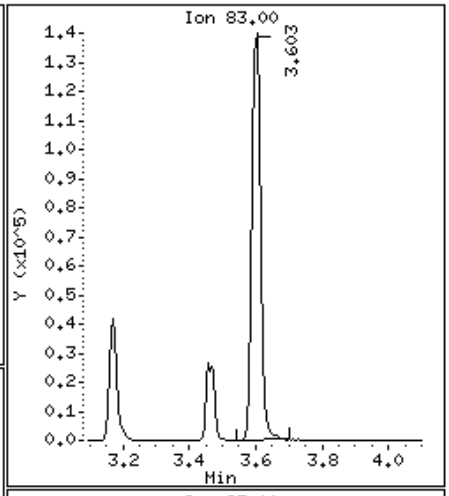
Sample Info: 3366026021;;1;;;;;

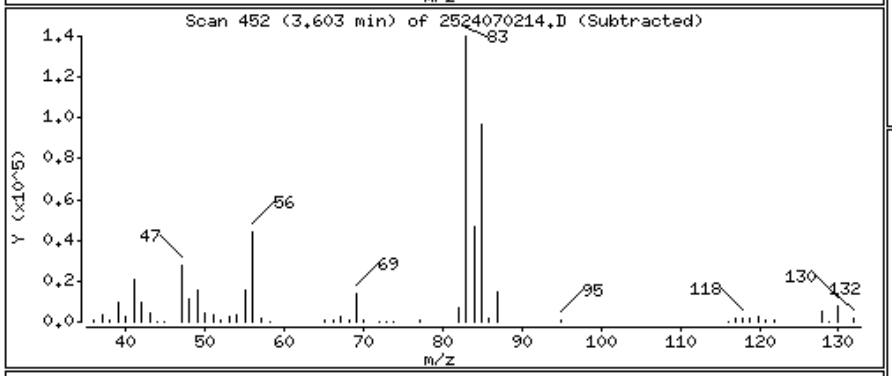
Purge Volume: 5.0 Operator: TMP

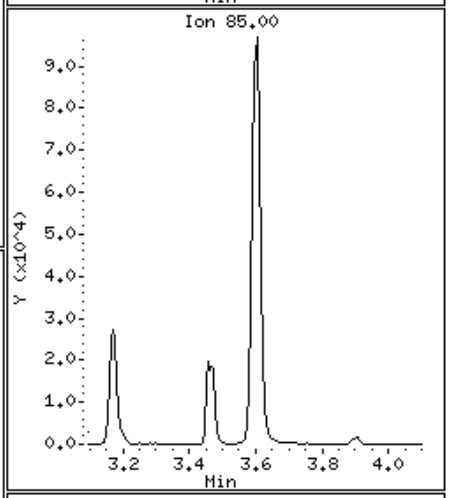
Column phase: DB-VRX Column diameter: 0.25

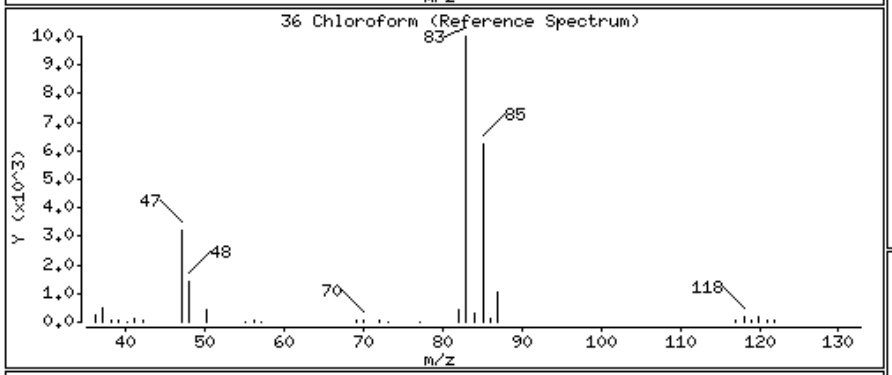
36 Chloroform Concentration: 20.5787 ug/L

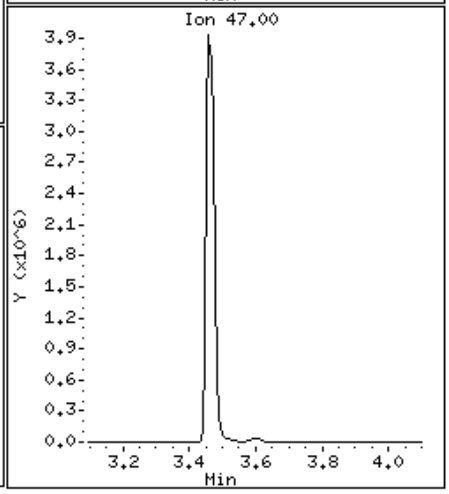


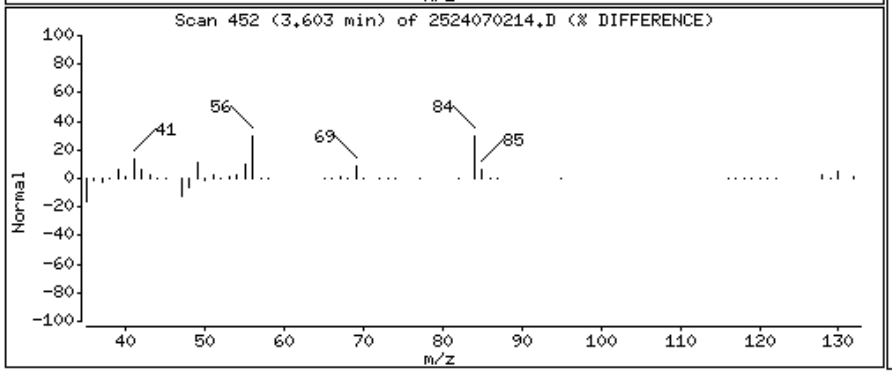












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 10

Date : 02-JUL-2024 14:34

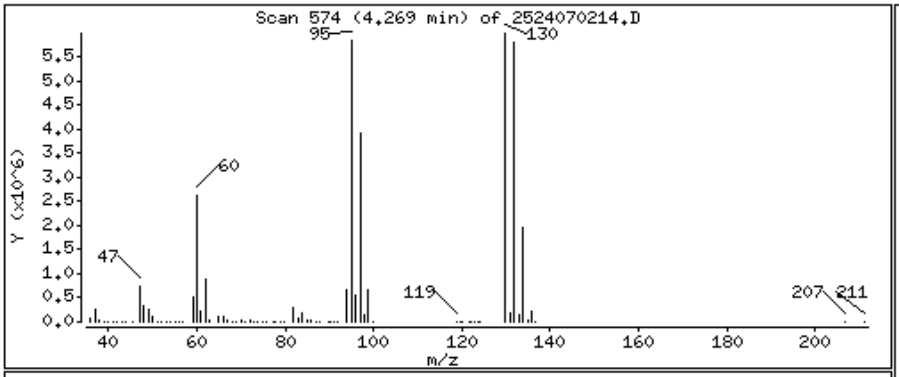
Client ID: ICT14D_062024 Instrument: ms25.i

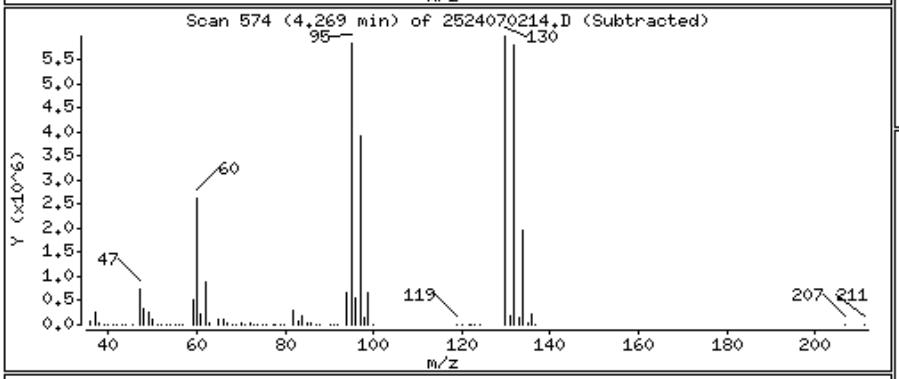
Sample Info: 3366026021;;1;;;;;

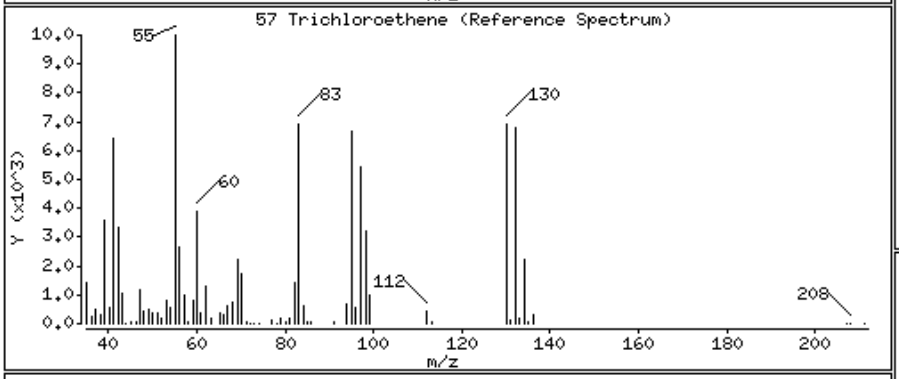
Purge Volume: 5.0 Operator: TMP

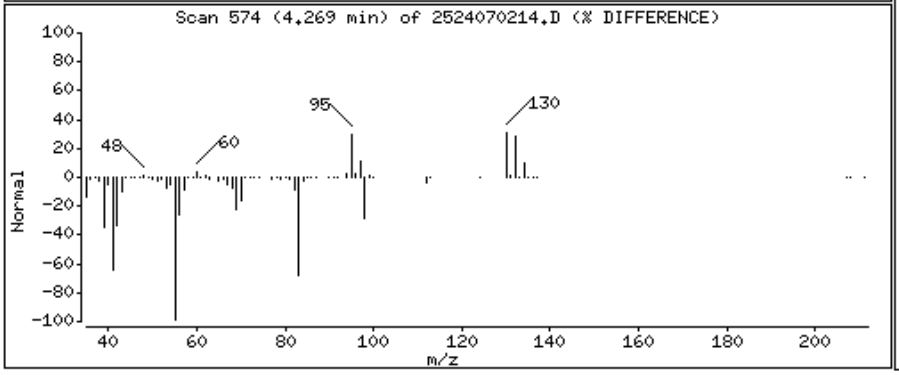
Column phase: DB-VRX Column diameter: 0.25

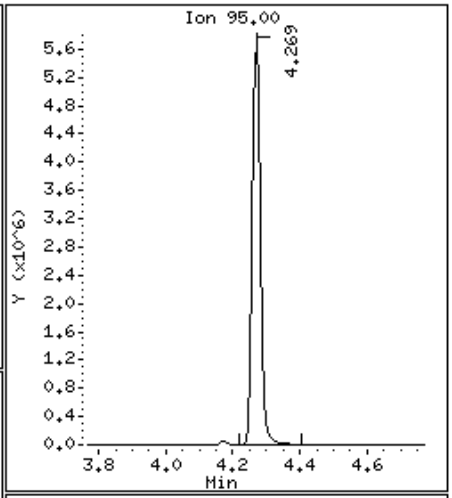
57 Trichloroethene Concentration: 1358.86 ug/L

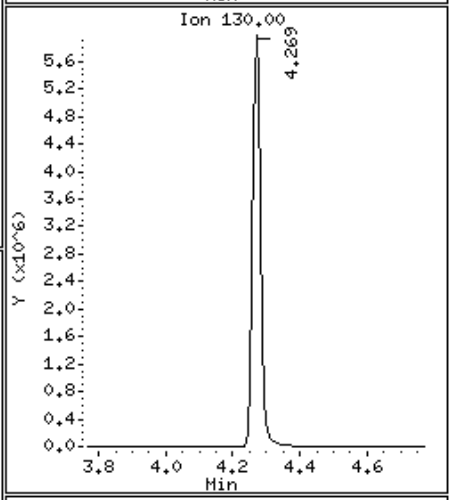


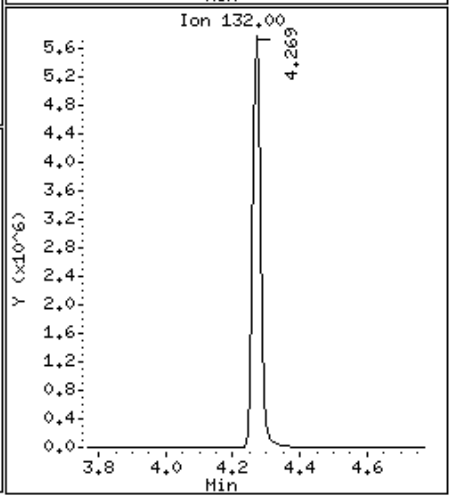












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 11

Date : 02-JUL-2024 14:34

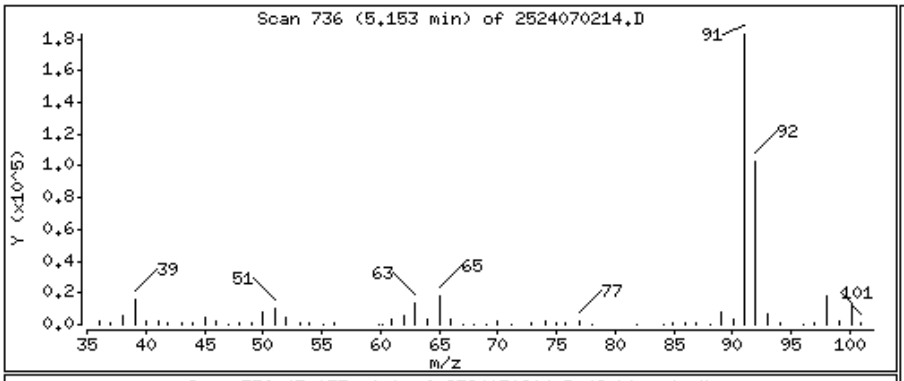
Client ID: ICT14D_062024 Instrument: ms25.i

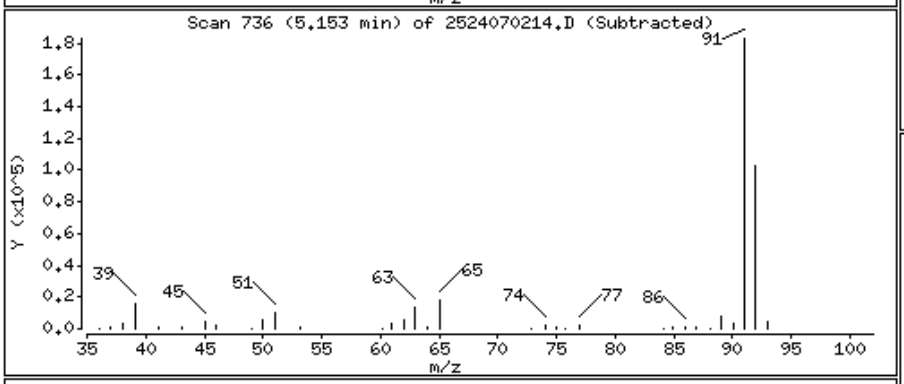
Sample Info: 3366026021;;1;;;;;

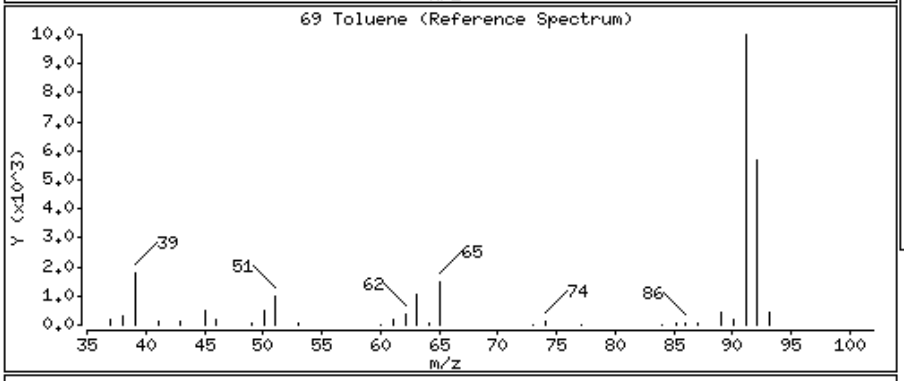
Purge Volume: 5.0 Operator: TMP

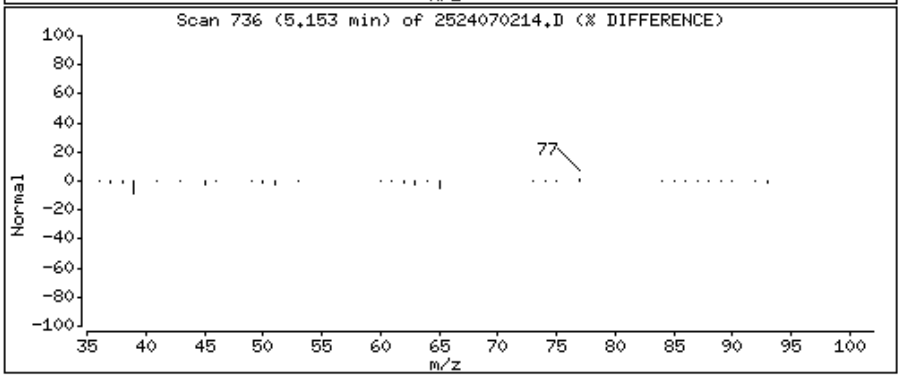
Column phase: DB-VRX Column diameter: 0.25

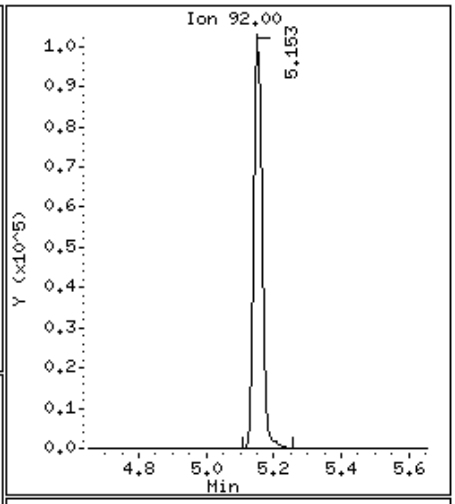
69 Toluene Concentration: 9.74309 ug/L

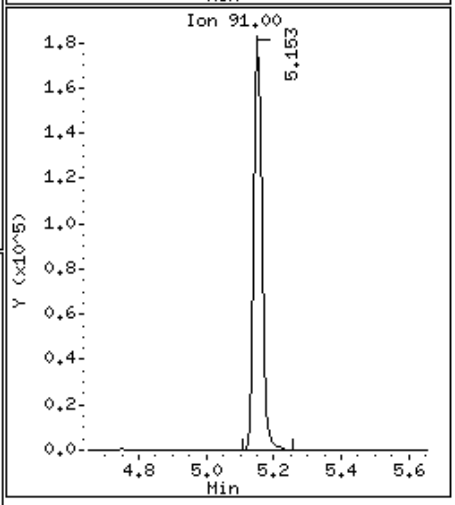












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 12

Date : 02-JUL-2024 14:34

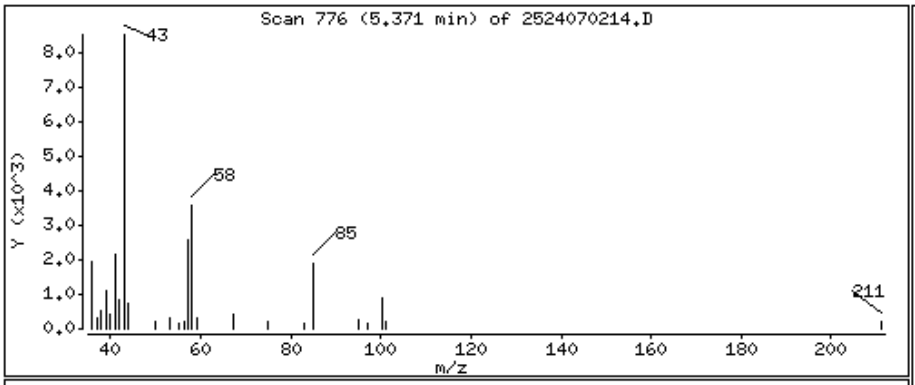
Client ID: ICT14D_062024 Instrument: ms25.i

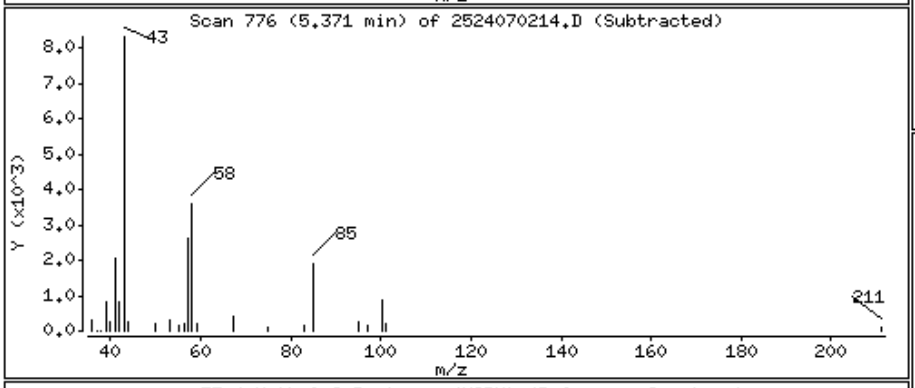
Sample Info: 3366026021;;1;;;;;

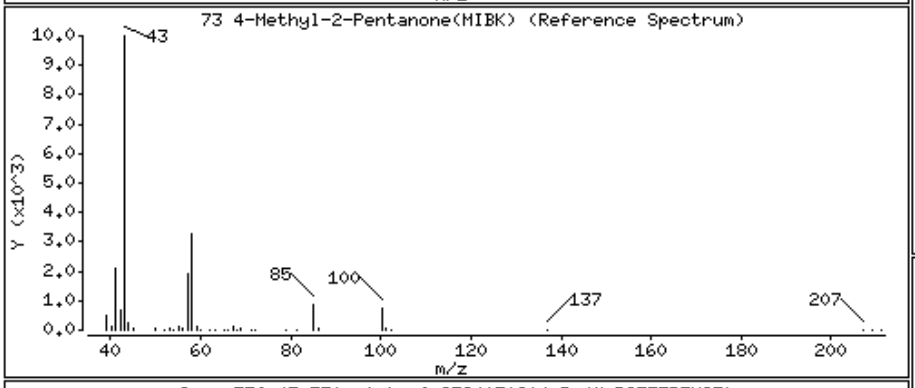
Purge Volume: 5.0 Operator: TMP

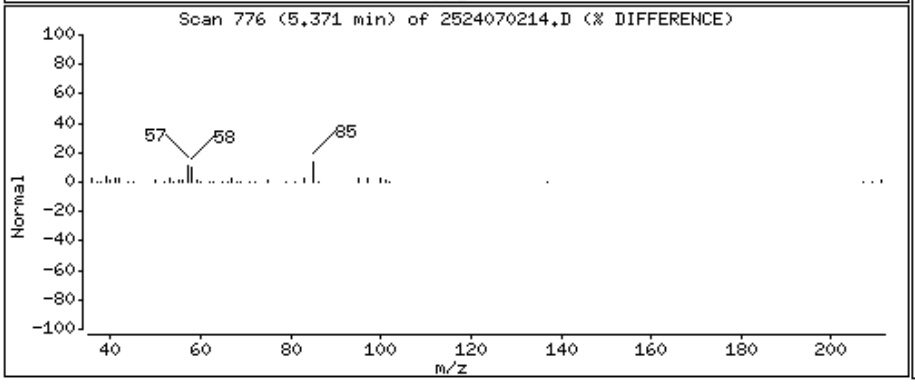
Column phase: DB-VRX Column diameter: 0.25

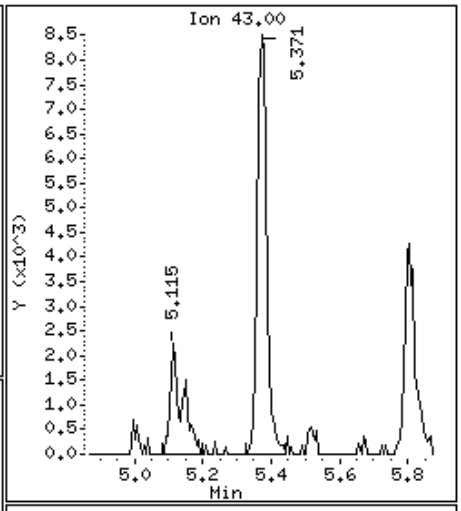
73 4-Methyl-2-Pentanone(MIBK) Concentration: 3.34684 ug/L

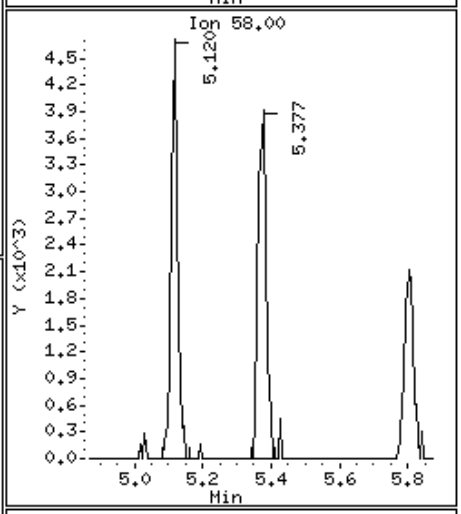


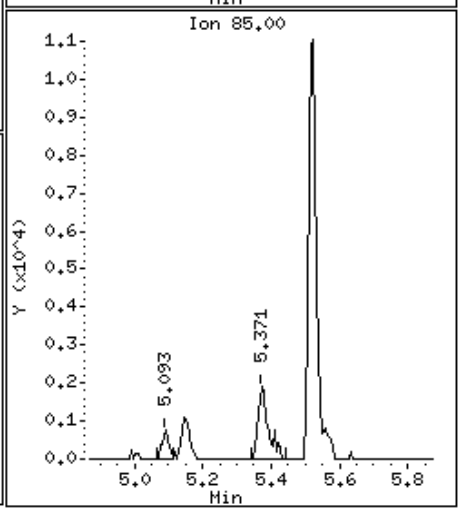












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 13

Date : 02-JUL-2024 14:34

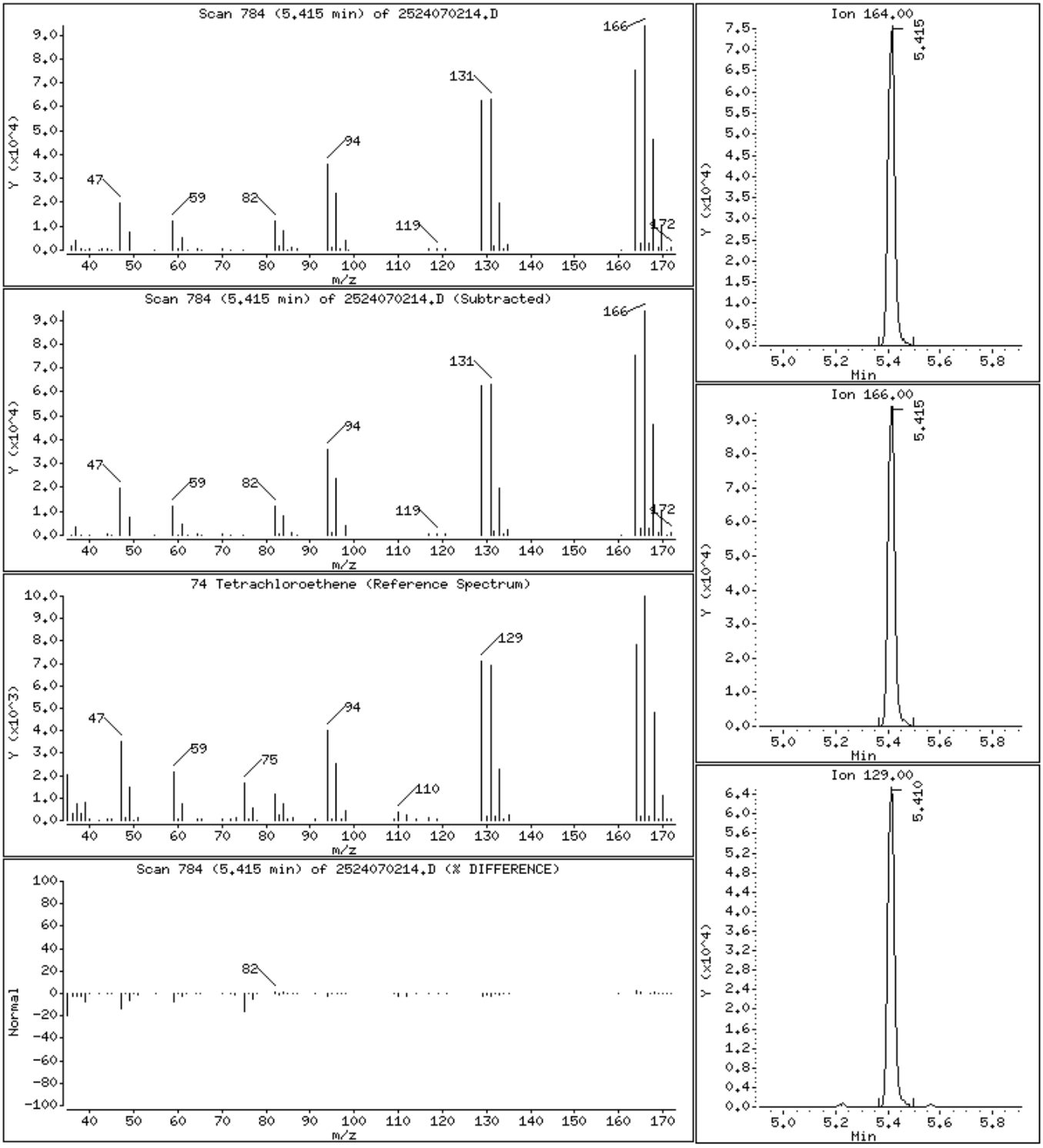
Client ID: ICT14D_062024 Instrument: ms25.i

Sample Info: 3366026021;;1;;;;;

Purge Volume: 5.0 Operator: TMP

Column phase: DB-VRX Column diameter: 0.25

74 Tetrachloroethene Concentration: 20.7623 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 14

Date : 02-JUL-2024 14:34

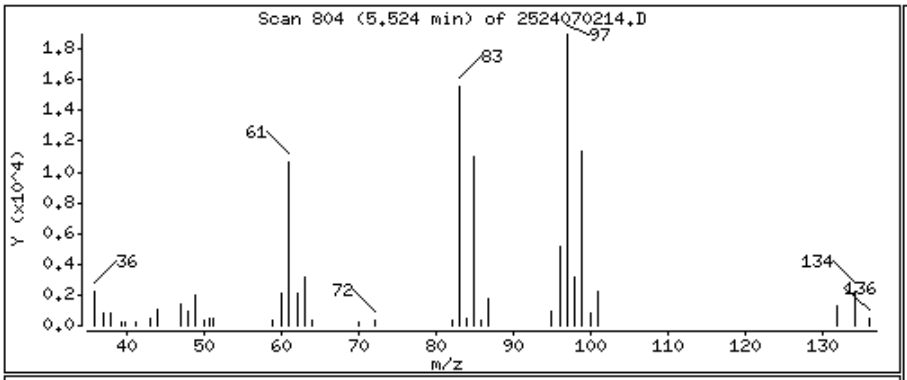
Client ID: ICT14D_062024 Instrument: ms25.i

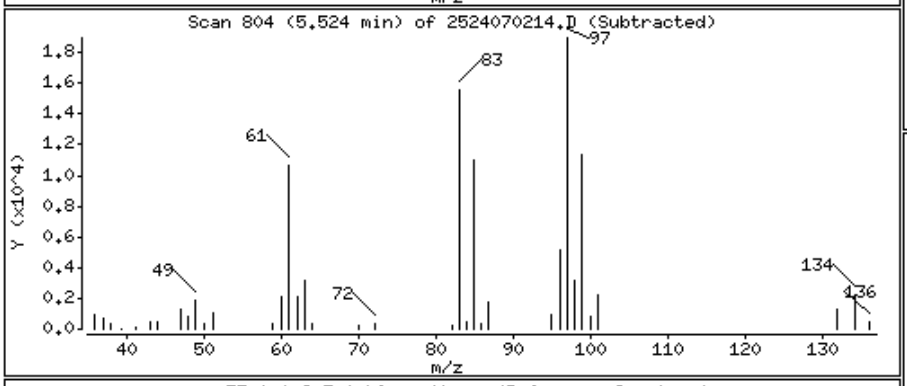
Sample Info: 3366026021;;1;;;;;

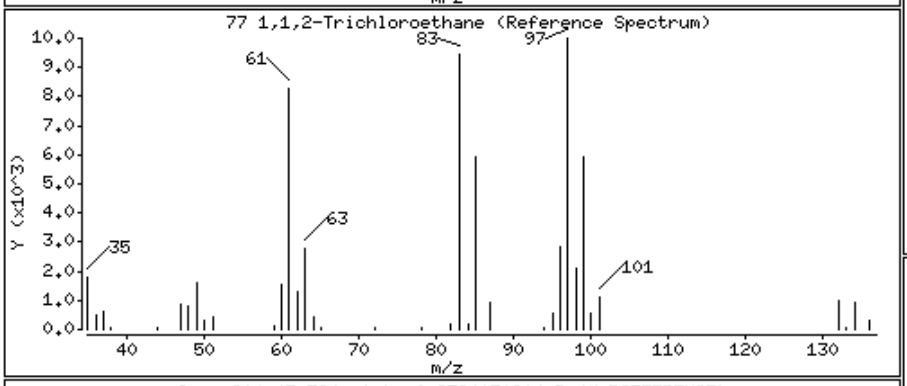
Purge Volume: 5.0 Operator: TMP

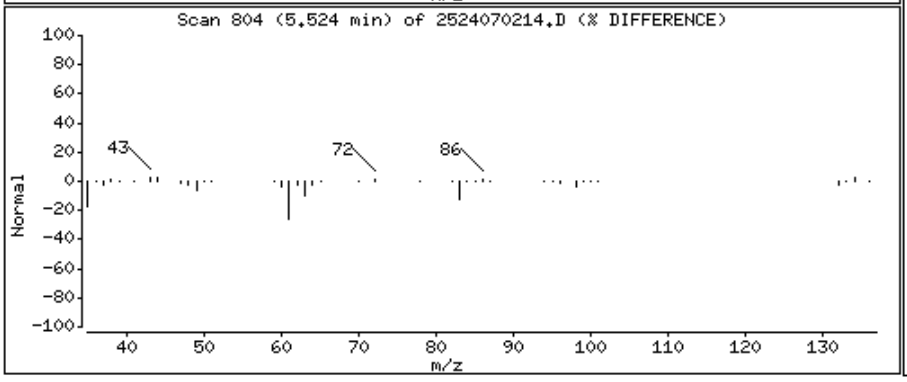
Column phase: DB-VRX Column diameter: 0.25

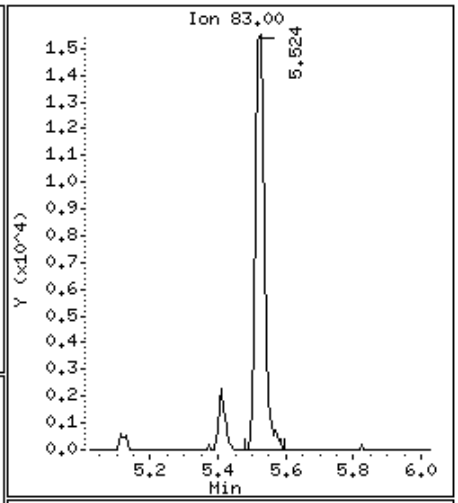
77 1,1,2-Trichloroethane Concentration: 5.24406 ug/L

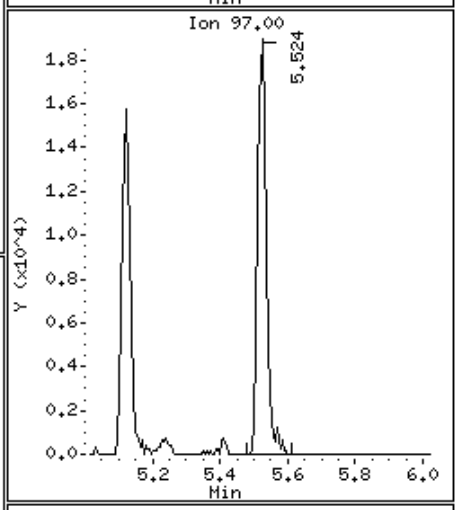


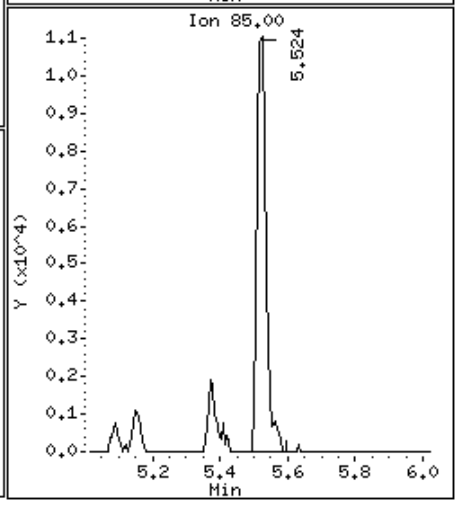












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 15

Date : 02-JUL-2024 14:34

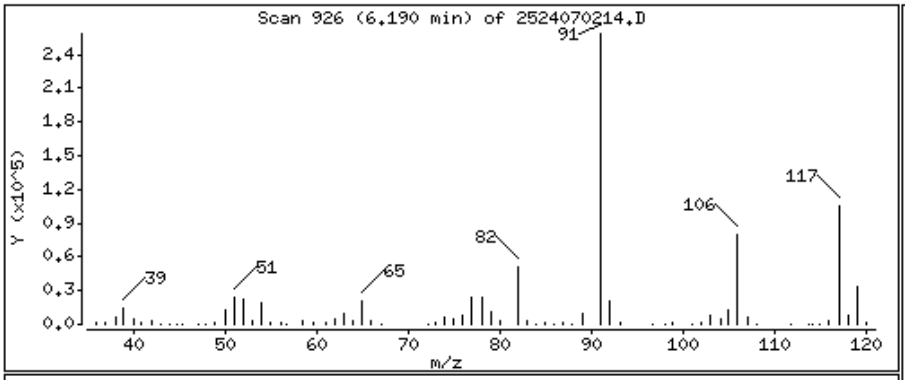
Client ID: ICT14D_062024 Instrument: ms25.i

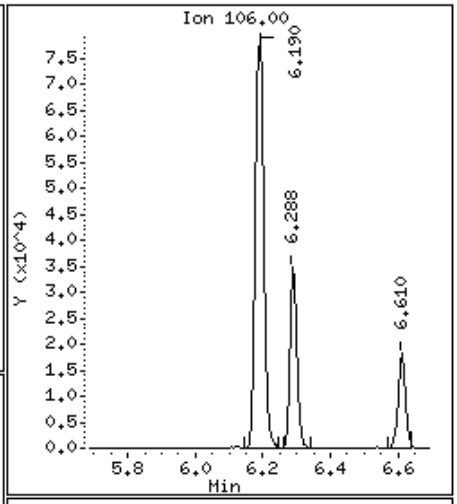
Sample Info: 3366026021;;1;;;;;

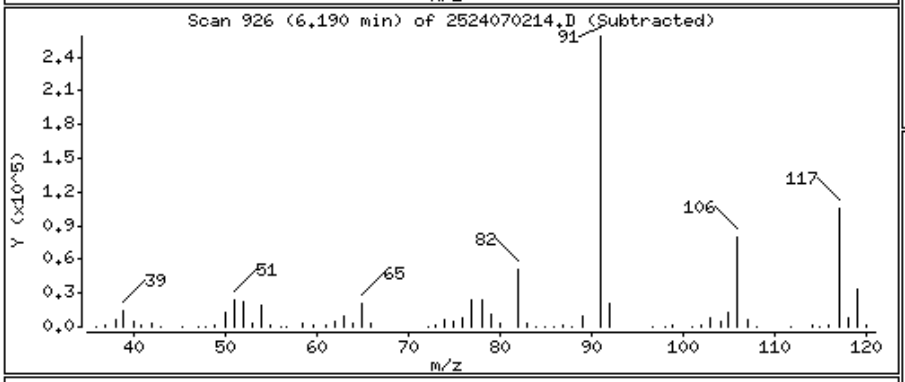
Purge Volume: 5.0 Operator: TMP

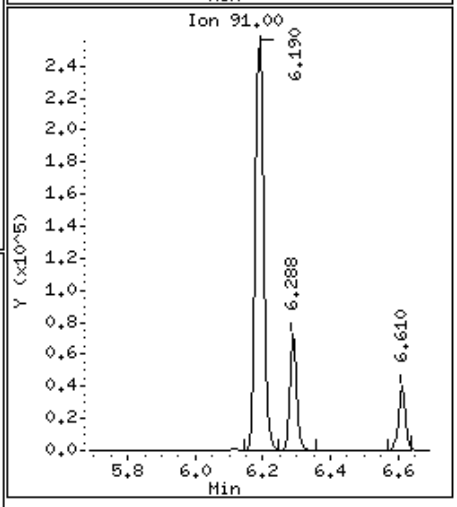
Column phase: DB-VRX Column diameter: 0.25

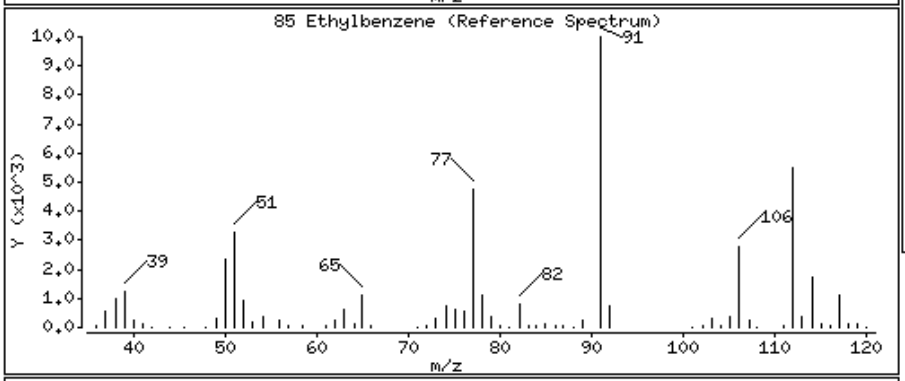
85 Ethylbenzene Concentration: 12.4473 ug/L

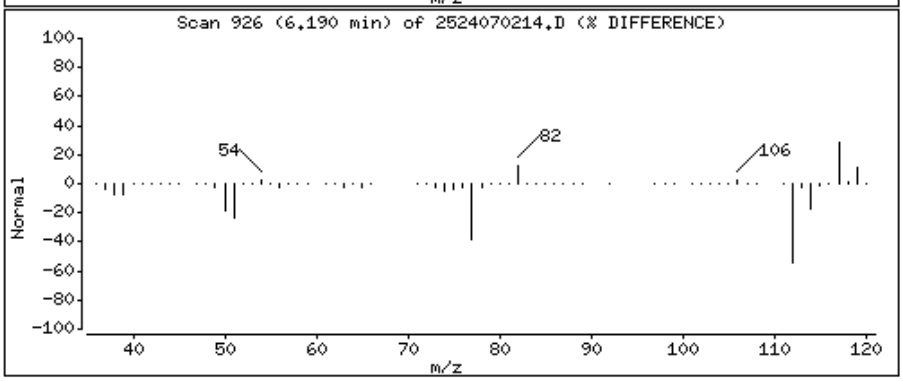












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 16

Date : 02-JUL-2024 14:34

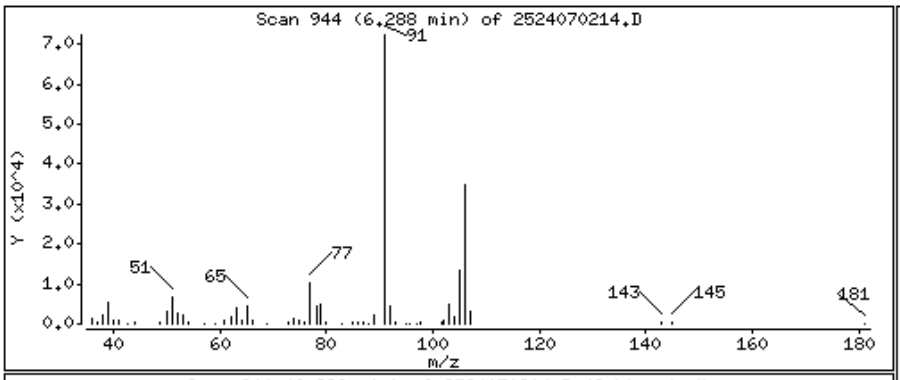
Client ID: ICT14D_062024 Instrument: ms25.i

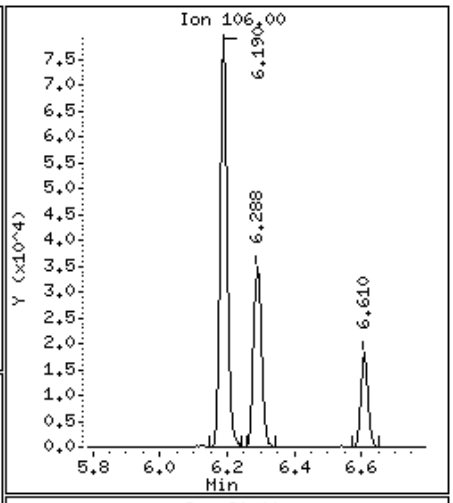
Sample Info: 3366026021;;1;;;;;

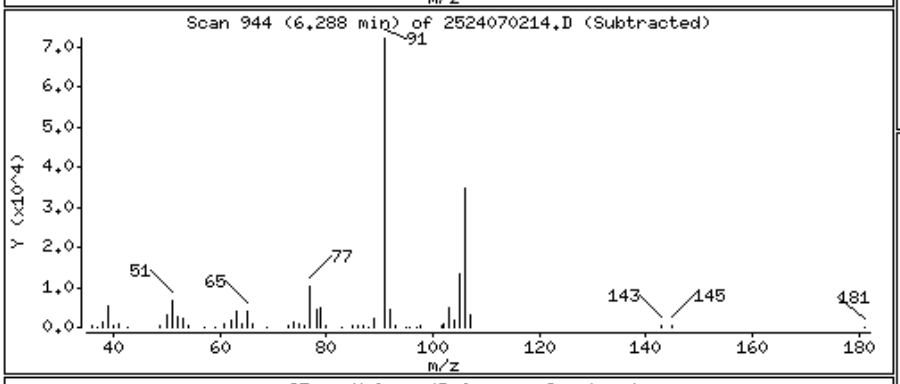
Purge Volume: 5.0 Operator: TMP

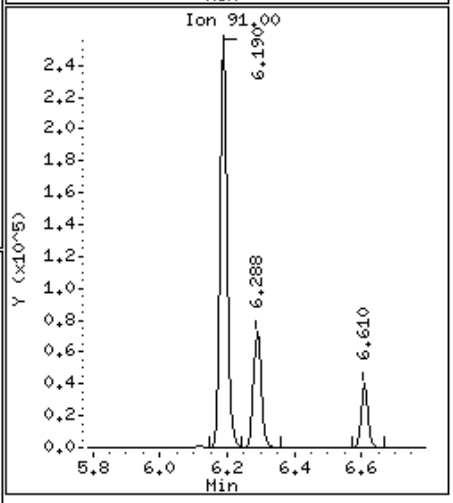
Column phase: DB-VRX Column diameter: 0.25

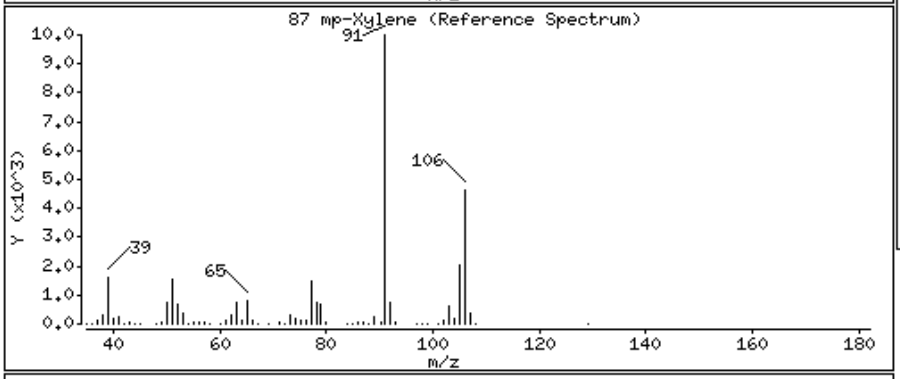
87 mp-Xylene Concentration: 3.79134 ug/L

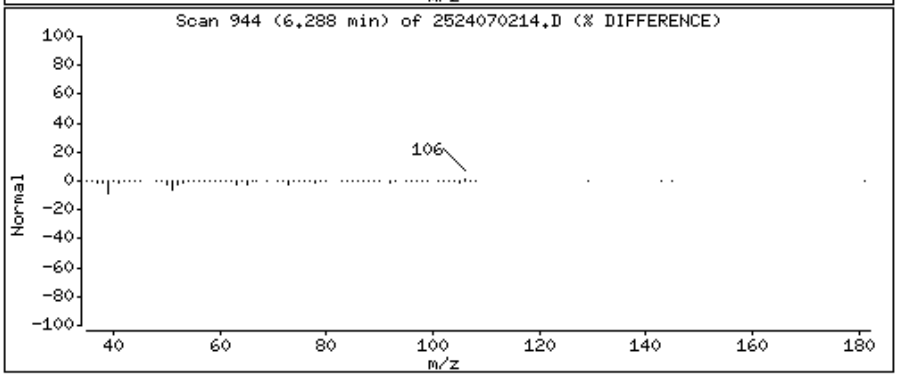












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 17

Date : 02-JUL-2024 14:34

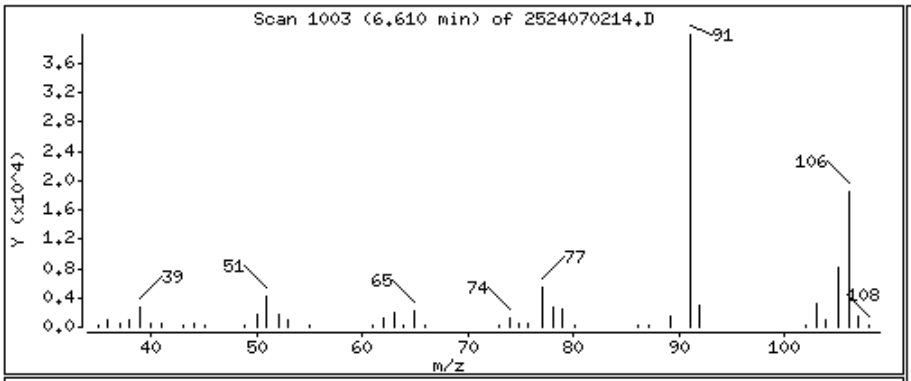
Client ID: ICT14D_062024 Instrument: ms25.i

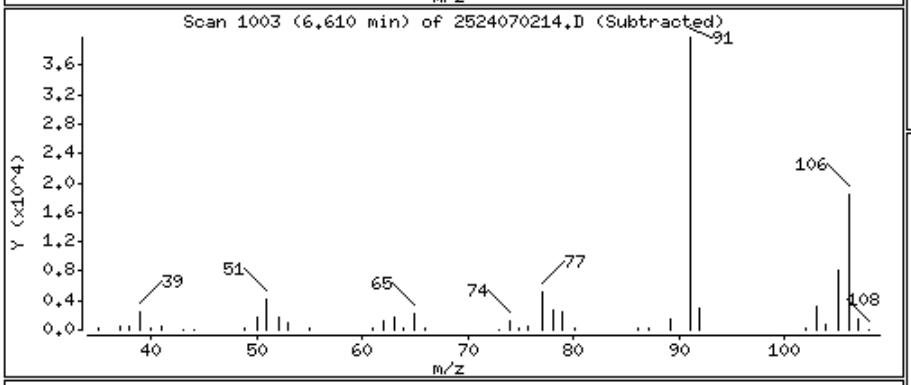
Sample Info: 3366026021;;1;;;;;

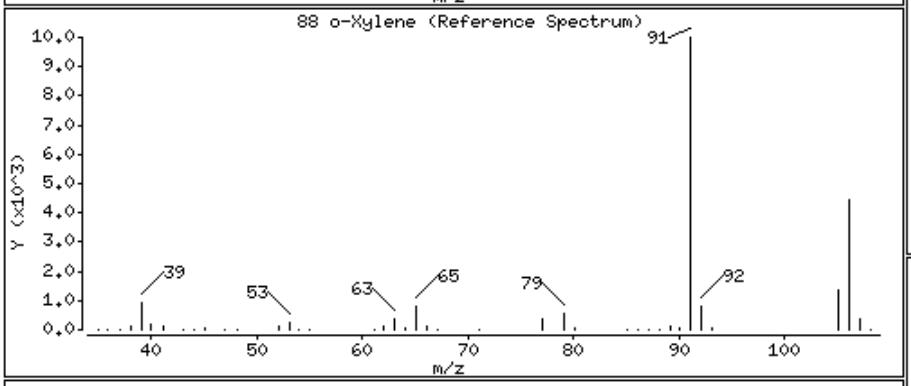
Purge Volume: 5.0 Operator: TMP

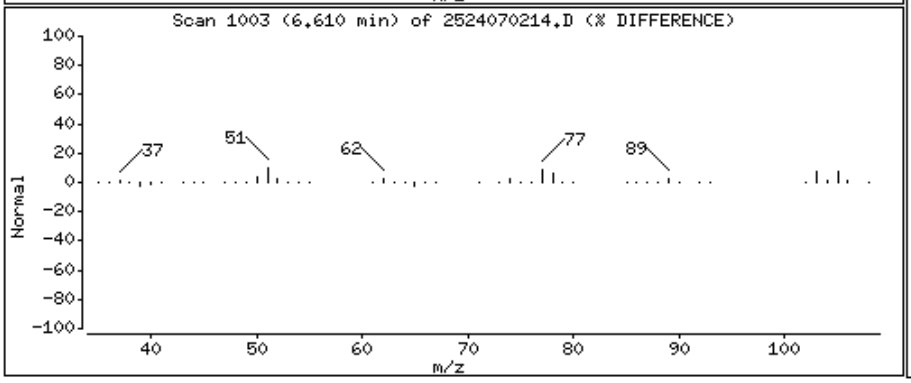
Column phase: DB-VRX Column diameter: 0.25

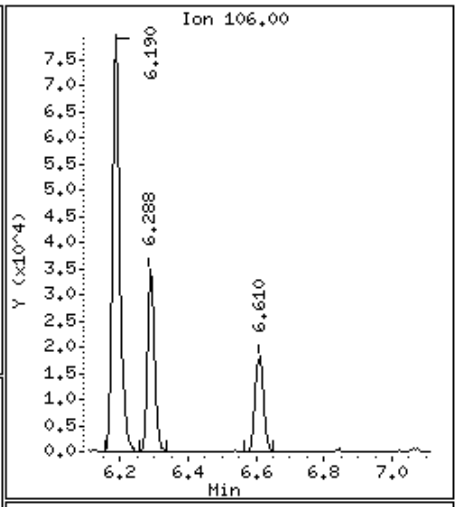
88 o-Xylene Concentration: 2.53609 ug/L

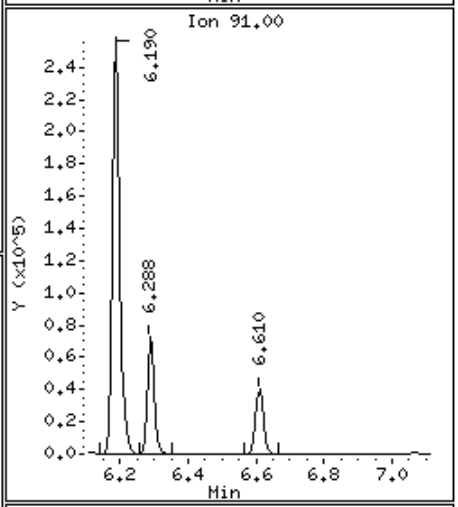


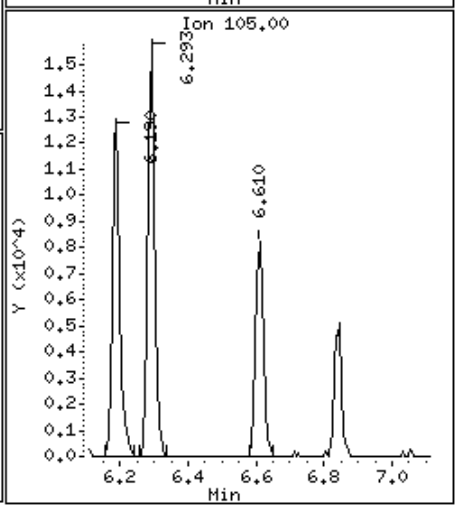












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 18

Date : 02-JUL-2024 14:34

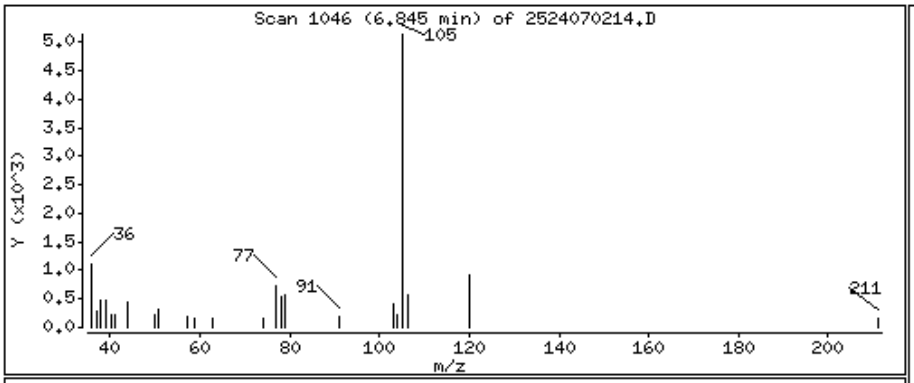
Client ID: ICT14D_062024 Instrument: ms25.i

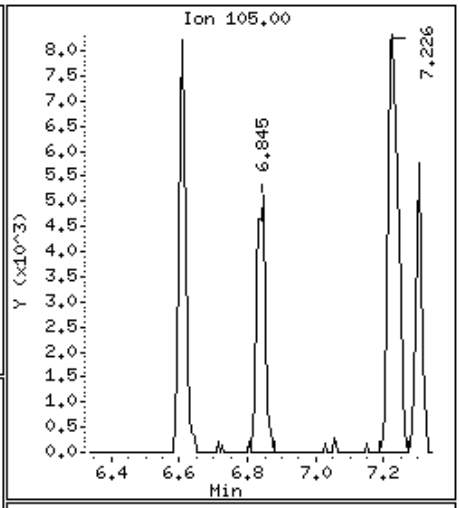
Sample Info: 3366026021;;1;;;;;

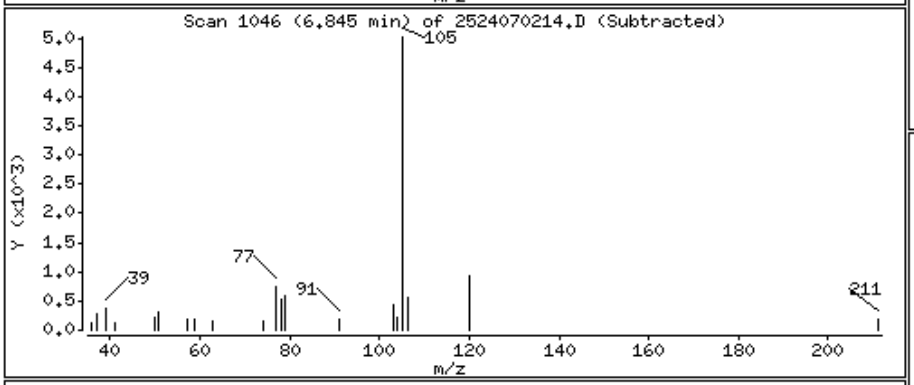
Purge Volume: 5.0 Operator: TMP

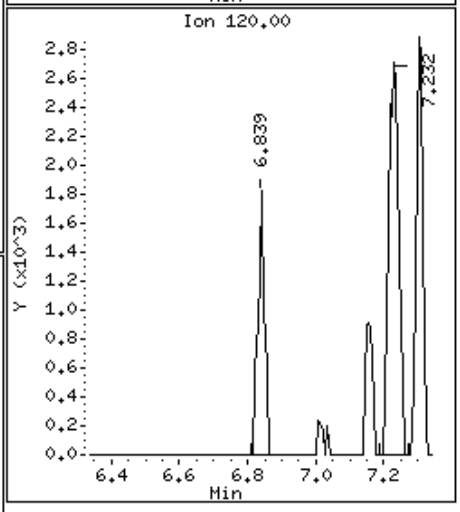
Column phase: DB-VRX Column diameter: 0.25

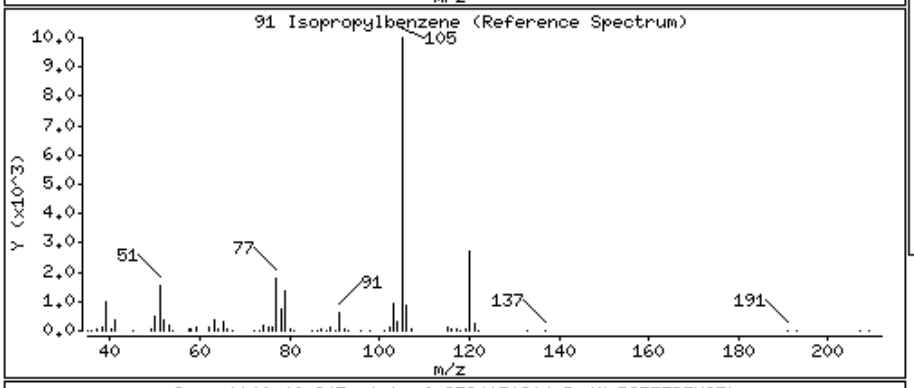
91 Isopropylbenzene Concentration: 0.497706 ug/L

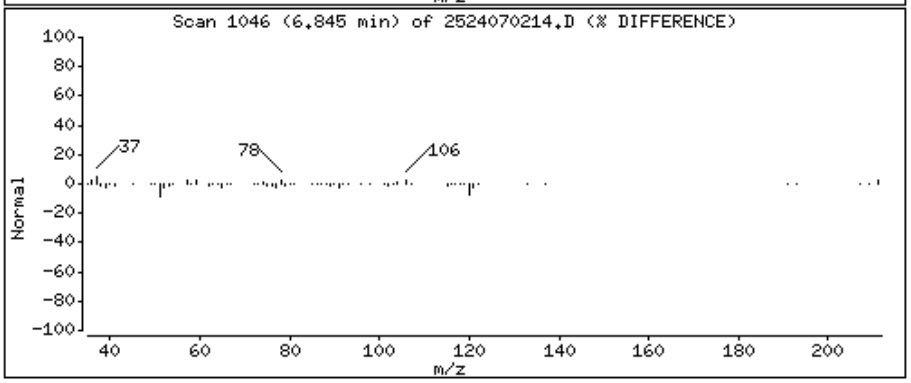












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 19

Date : 02-JUL-2024 14:34

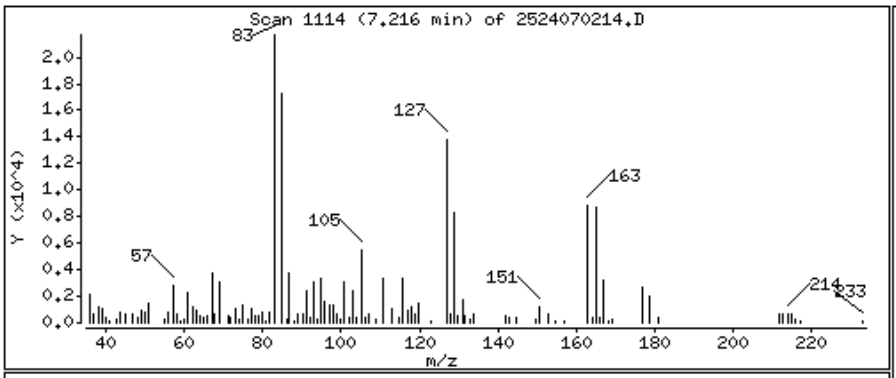
Client ID: ICT14D_062024 Instrument: ms25.i

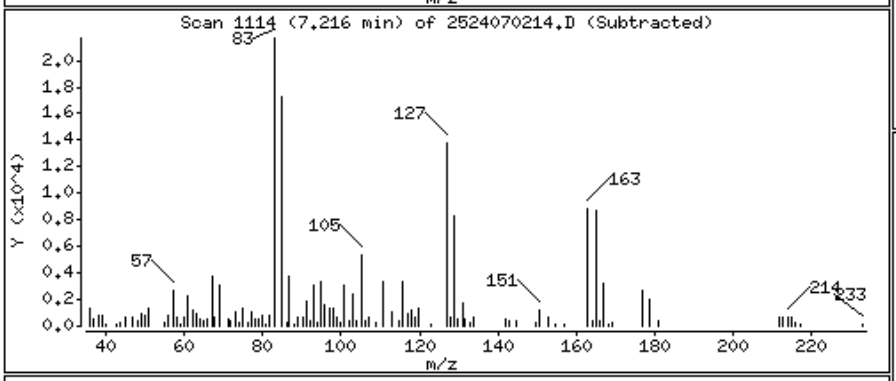
Sample Info: 3366026021;;1;;;;;

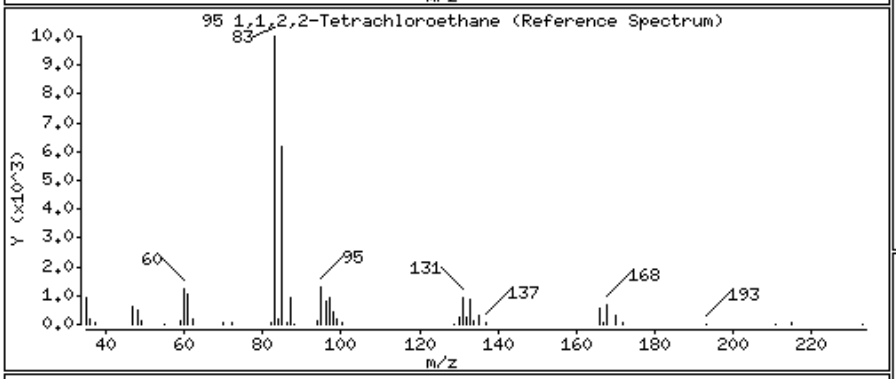
Purge Volume: 5.0 Operator: TMP

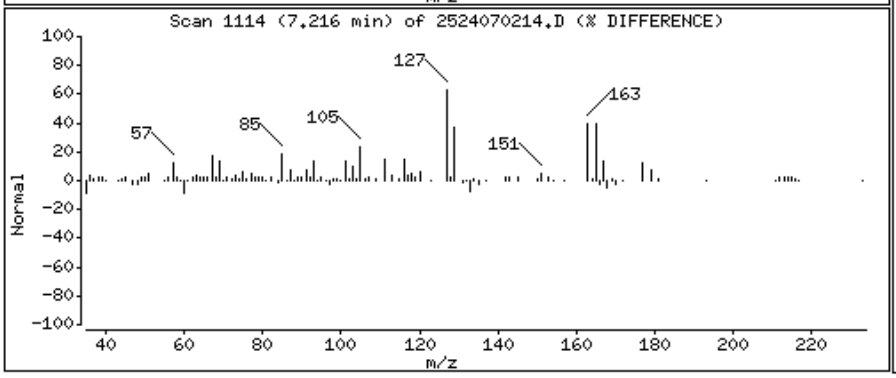
Column phase: DB-VRX Column diameter: 0.25

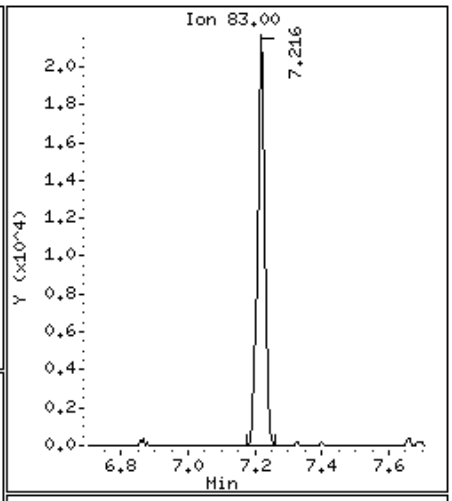
95 1,1,2,2-Tetrachloroethane Concentration: 5.02167 ug/L

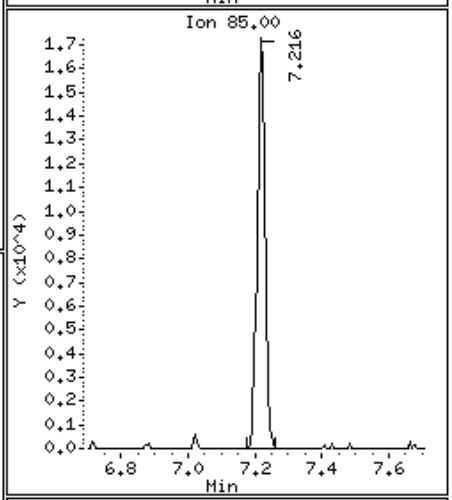


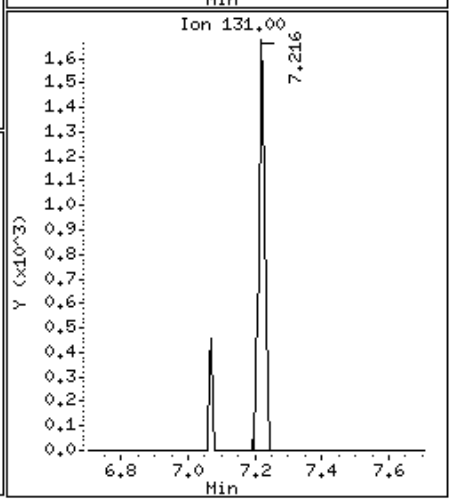












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 20

Date : 02-JUL-2024 14:34

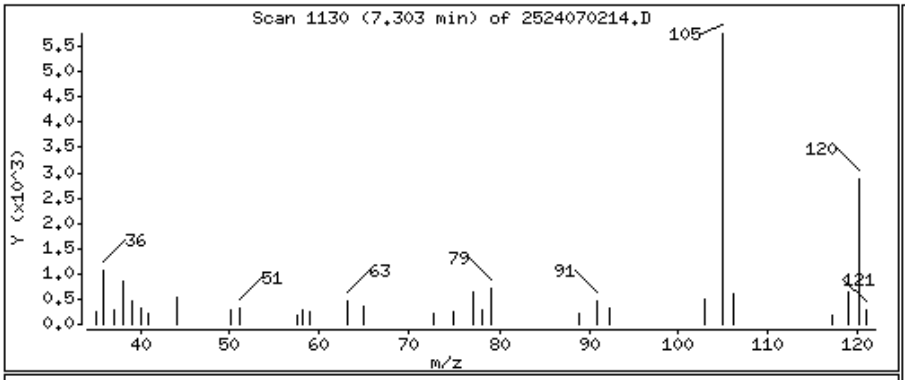
Client ID: ICT14D_062024 Instrument: ms25.i

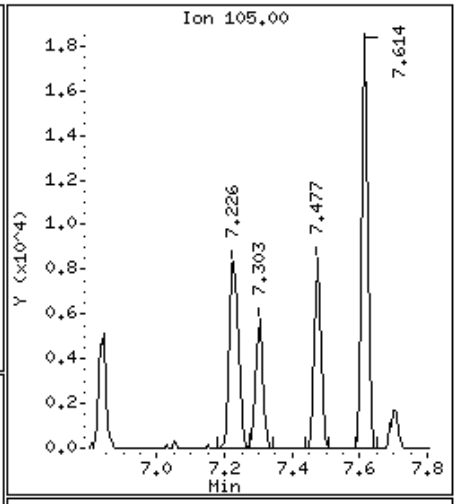
Sample Info: 3366026021;;1;;;;;;

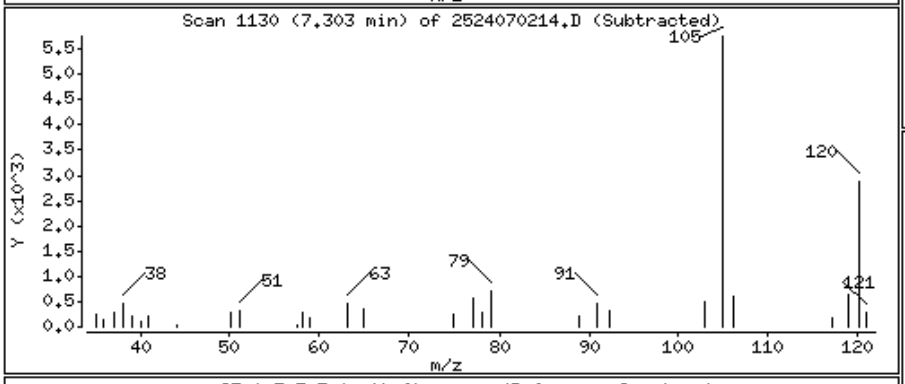
Purge Volume: 5.0 Operator: TMP

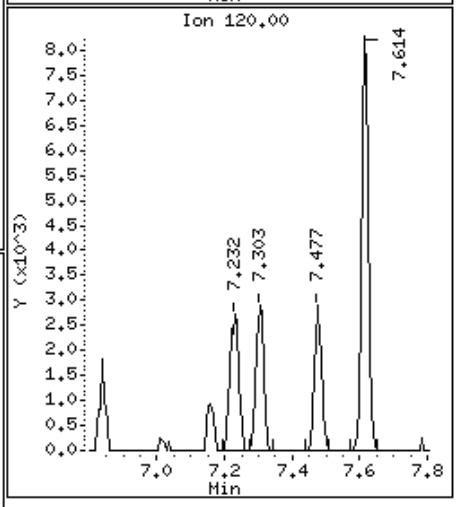
Column phase: DB-VRX Column diameter: 0.25

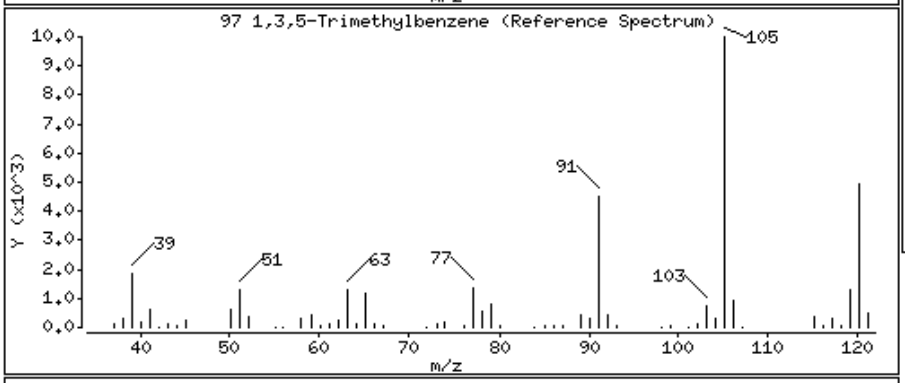
97 1,3,5-Trimethylbenzene Concentration: 0.408032 ug/L

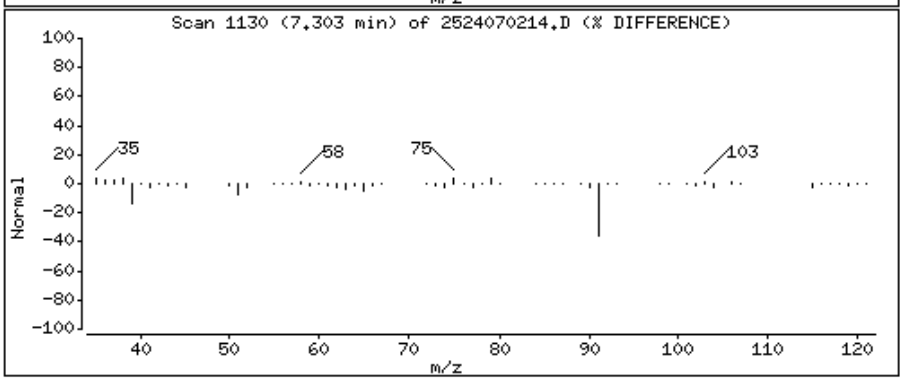












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 21

Date : 02-JUL-2024 14:34

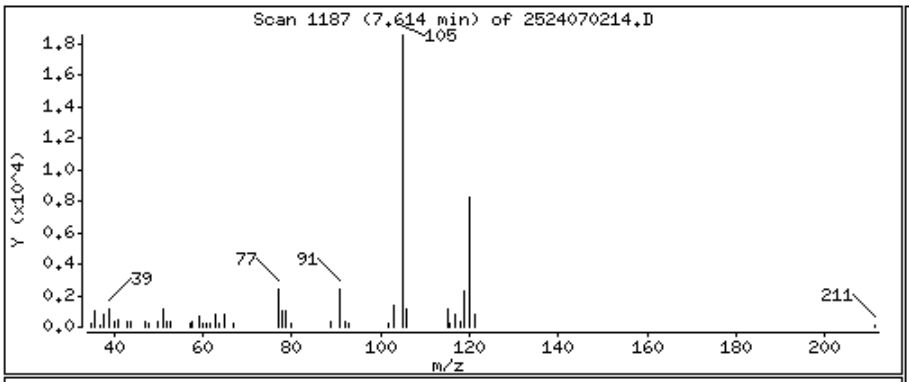
Client ID: ICT14D_062024 Instrument: ms25.i

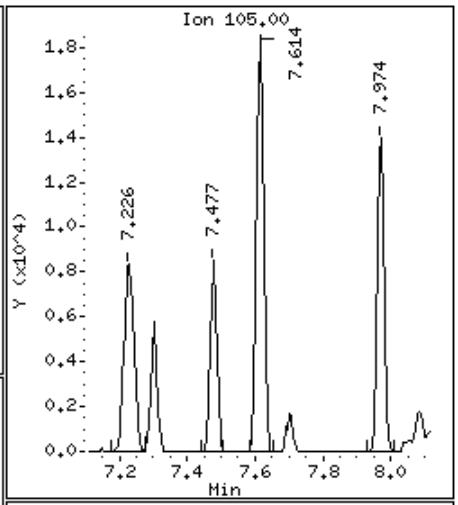
Sample Info: 3366026021;;1;;;;;

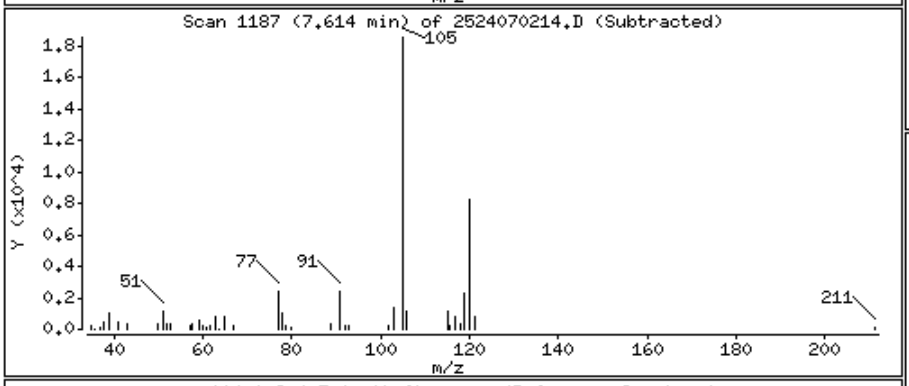
Purge Volume: 5.0 Operator: TMP

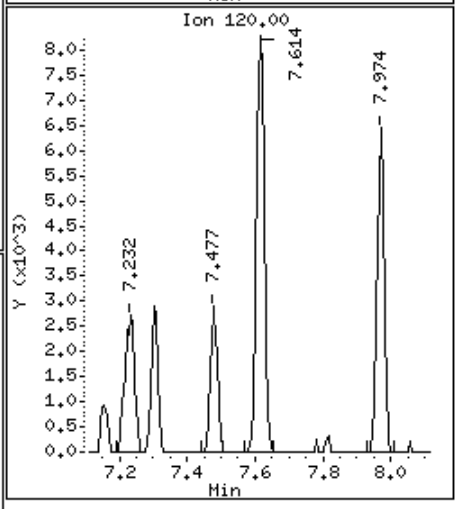
Column phase: DB-VRX Column diameter: 0.25

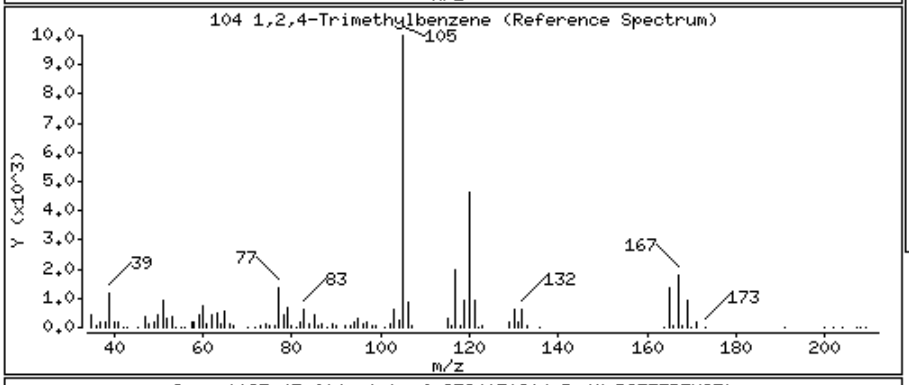
104 1,2,4-Trimethylbenzene Concentration: 1.10924 ug/L

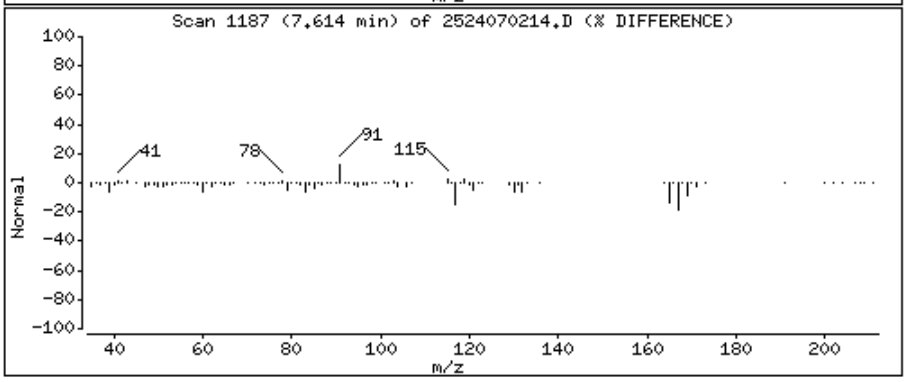












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D Page 22

Date : 02-JUL-2024 14:34

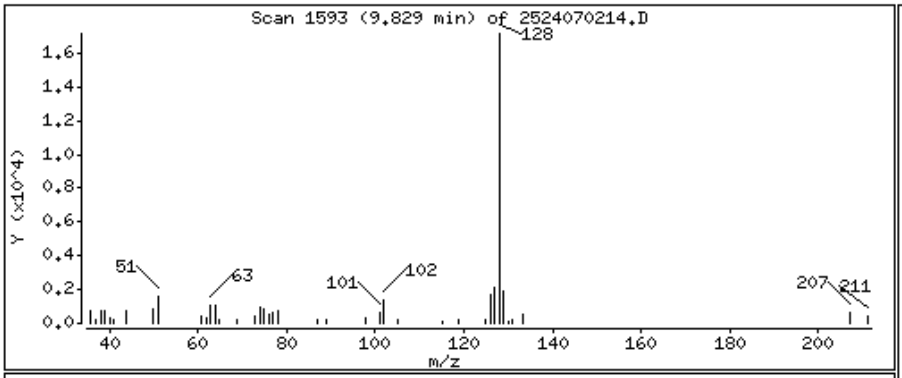
Client ID: ICT14D_062024 Instrument: ms25.i

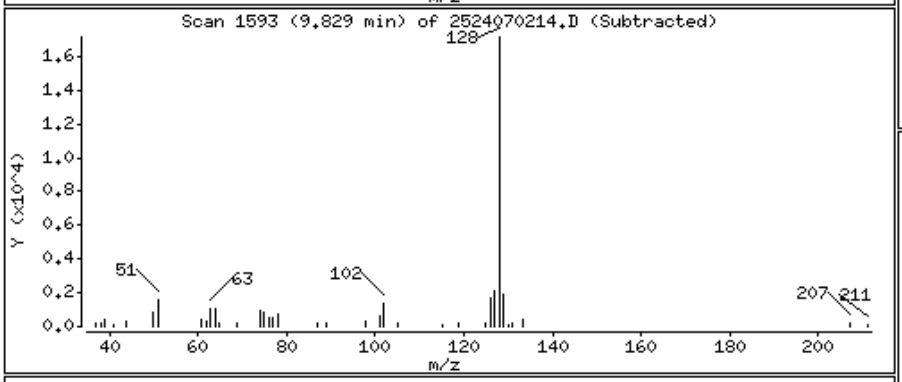
Sample Info: 3366026021;;1;;;;;

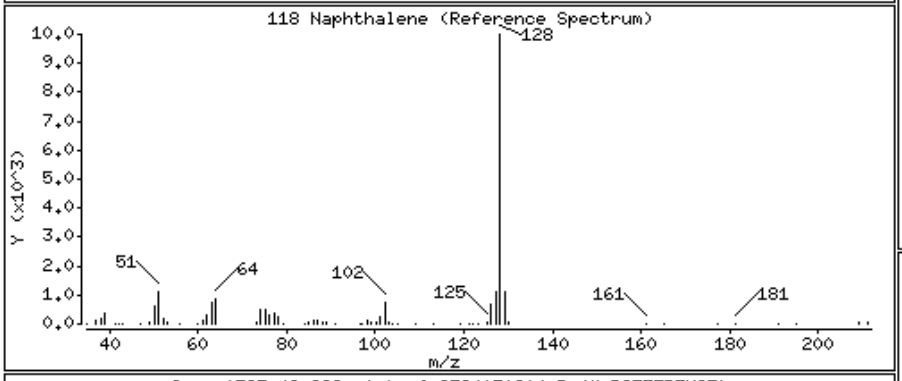
Purge Volume: 5.0 Operator: TMP

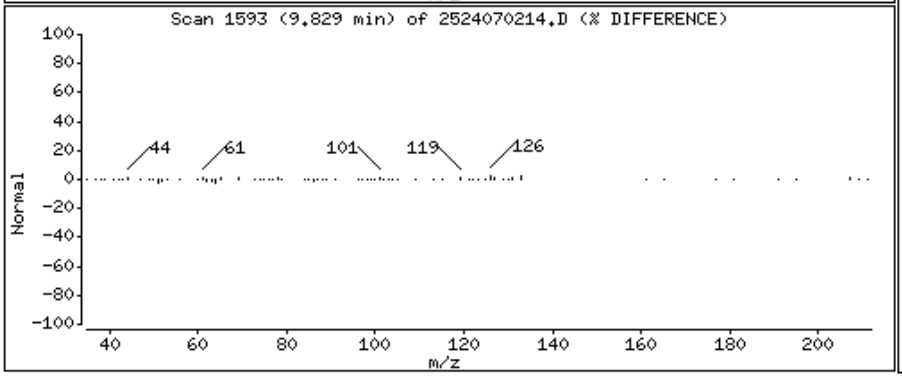
Column phase: DB-VRX Column diameter: 0.25

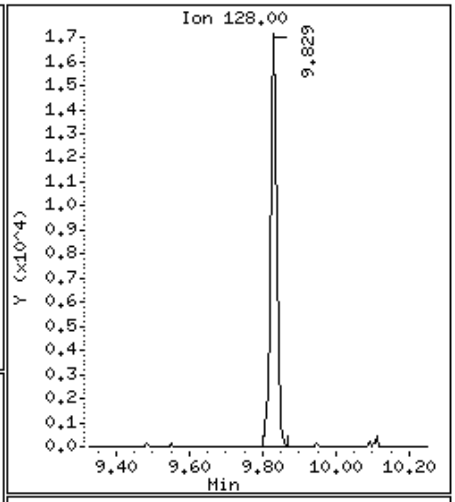
118 Naphthalene Concentration: 1.43181 ug/L

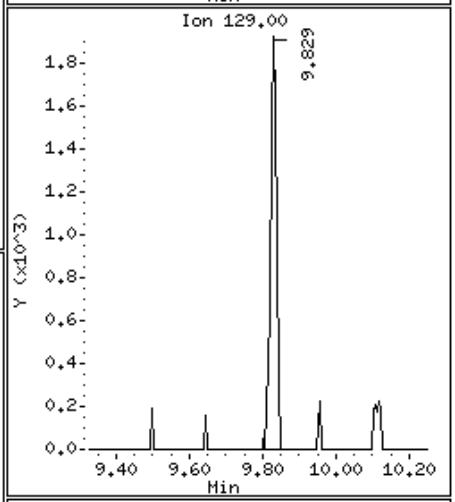


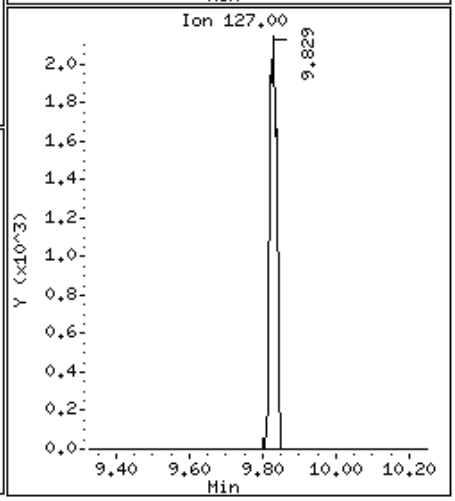












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Inj Date : 02-JUL-2024 14:34
InstruID : ms25.i
LabSampID : 3366026021

Chloroform (67-66-3)

Reason Code:

BEFORE
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HEIGHT
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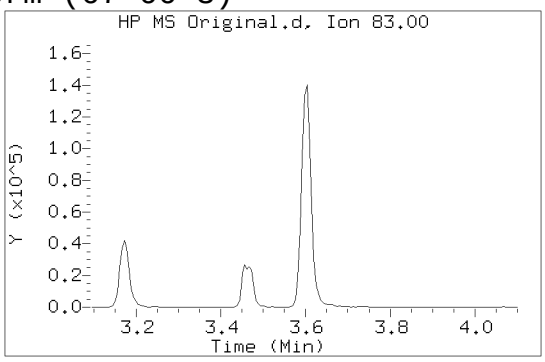
03-Jul-2024
03:26



AFTER
MASS
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AREA
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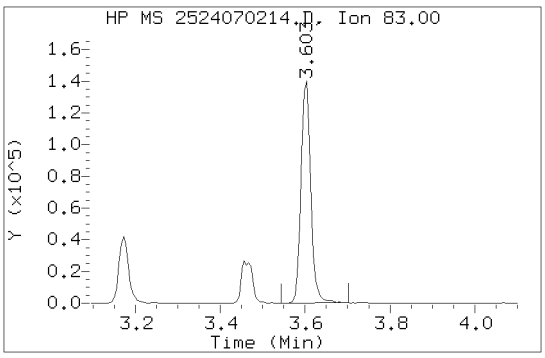
HEIGHT
140002
09-Jul-2024
12:44



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MASS
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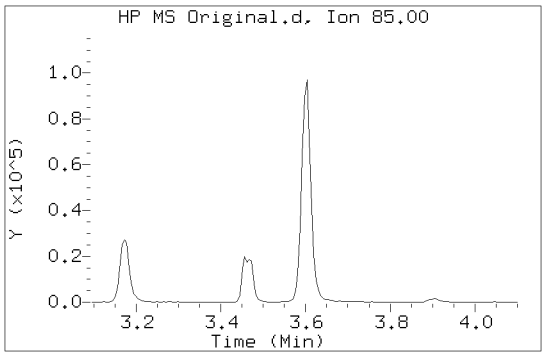
HEIGHT
2269664
03-Jul-2024
03:26



AFTER
MASS
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HEIGHT
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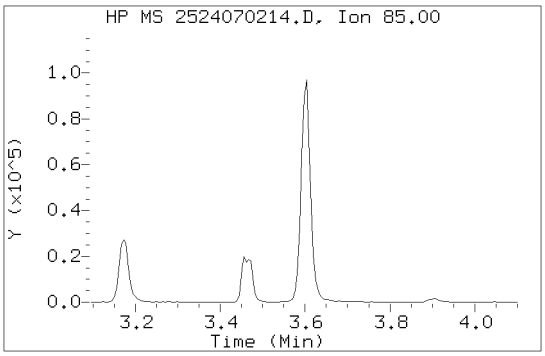
09-Jul-2024
12:44



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MASS
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HEIGHT
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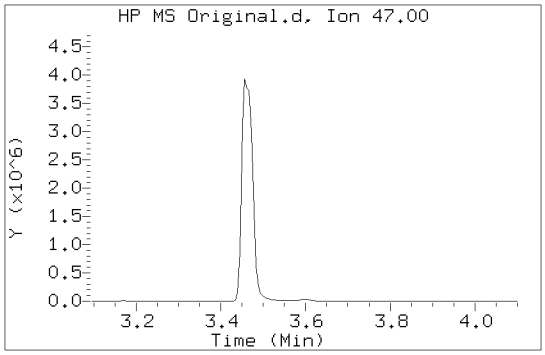
03-Jul-2024
03:26



AFTER
MASS
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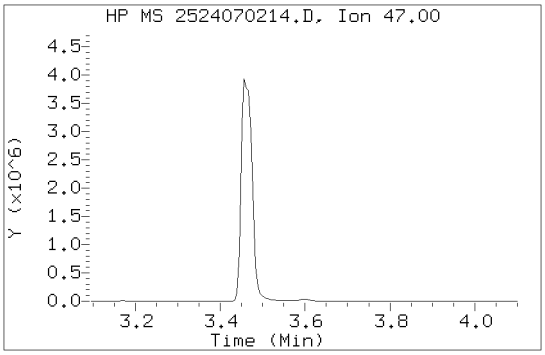
HEIGHT
8388096
09-Jul-2024
12:44



Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
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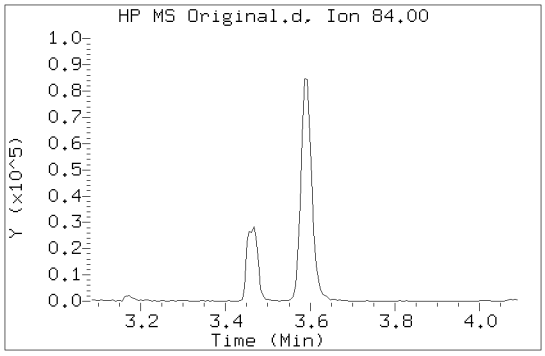
03-Jul-2024
03:26



AFTER
MASS
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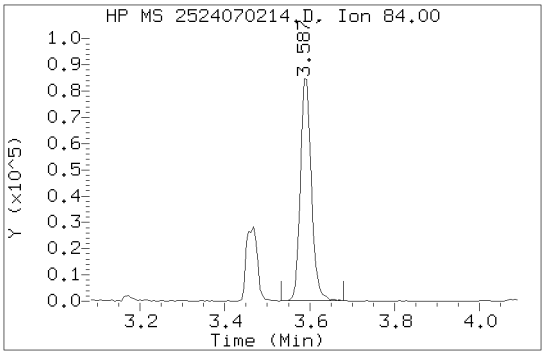
AREA
152623
HEIGHT
84433
09-Jul-2024
12:44



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D
Inj Date : 02-JUL-2024 14:34
InstruID : ms25.i
LabSampID : 3366026021

Cyclohexane (110-82-7)

Reason Code:

BEFORE
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56
AREA
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HEIGHT
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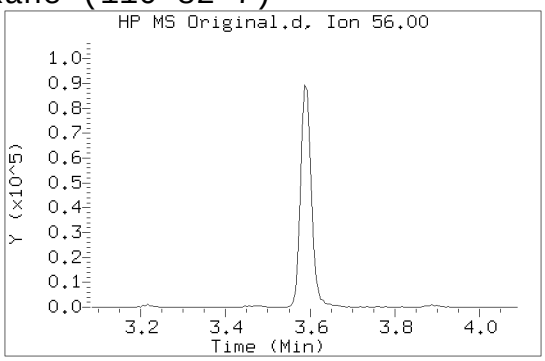
03-Jul-2024
03:26



AFTER
MASS
56
AREA
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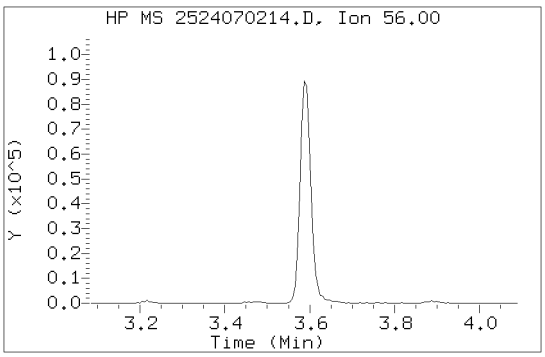
HEIGHT
0
09-Jul-2024
12:44



BEFORE
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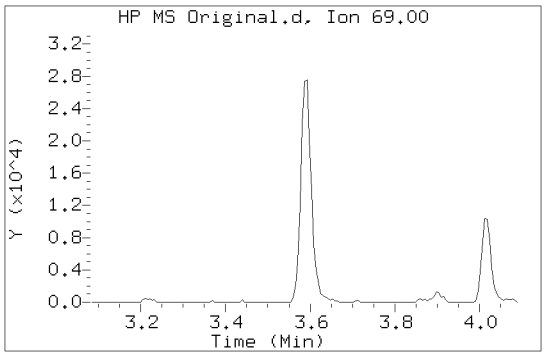
03-Jul-2024
03:26



AFTER
MASS
69
AREA
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HEIGHT
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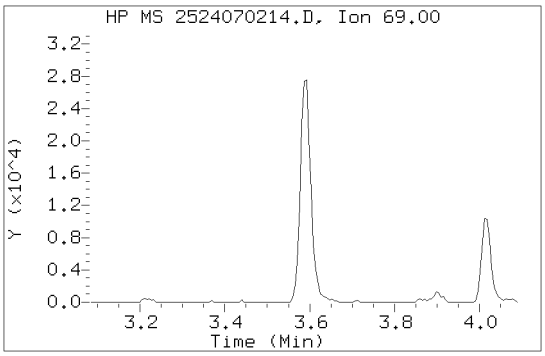
09-Jul-2024
12:44



cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE
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AREA
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HEIGHT
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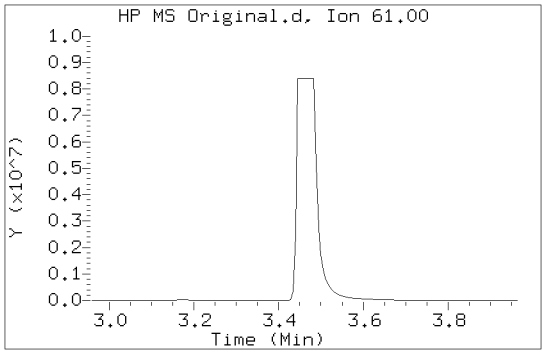
03-Jul-2024
03:26



AFTER
MASS
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AREA
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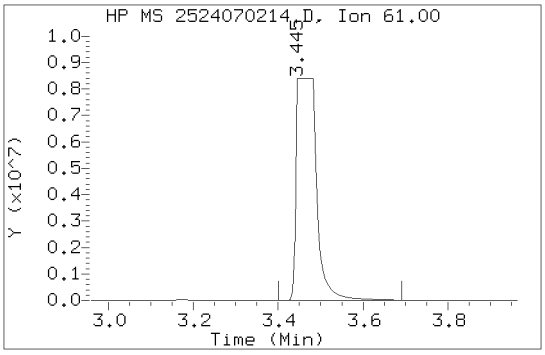
HEIGHT
8387241
09-Jul-2024
12:44



BEFORE
MASS
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AREA
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HEIGHT
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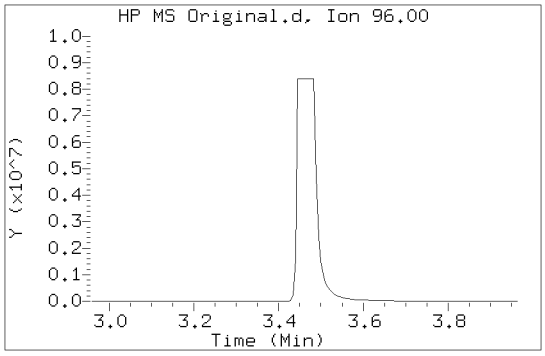
03-Jul-2024
03:26



AFTER
MASS
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HEIGHT
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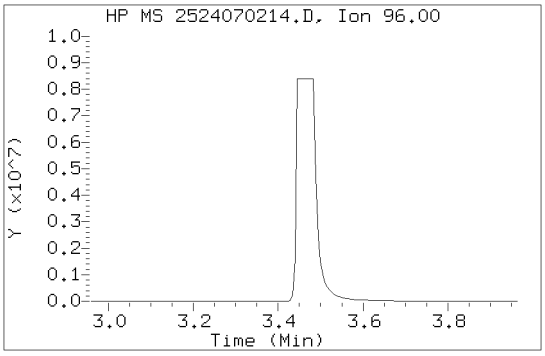
09-Jul-2024
12:44



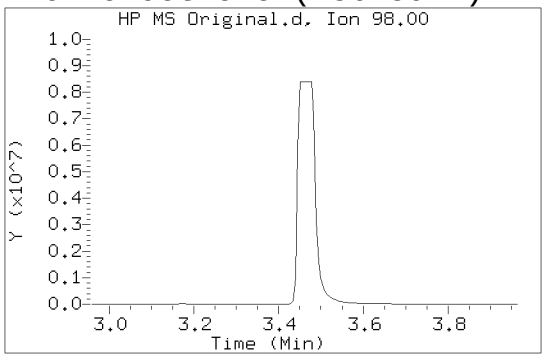
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070214.D
Inj Date : 02-JUL-2024 14:34
InstruID : ms25.i
LabSampID : 3366026021

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

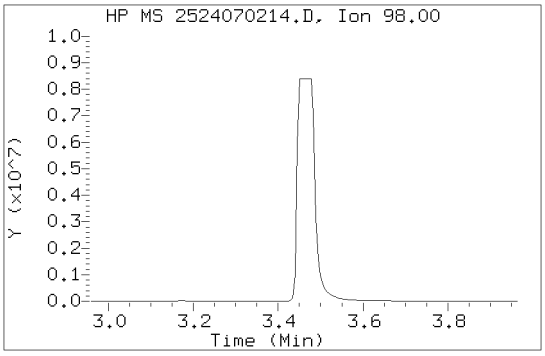
BEFORE

MASS
98
AREA
375914
HEIGHT
252032
03-Jul-2024
03:26



AFTER

MASS
98
AREA
375914
HEIGHT
252032
09-Jul-2024
12:44



trans-1,2-Dichloroethene (156-60-5)

Reason Code:

BEFORE

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AREA
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HEIGHT
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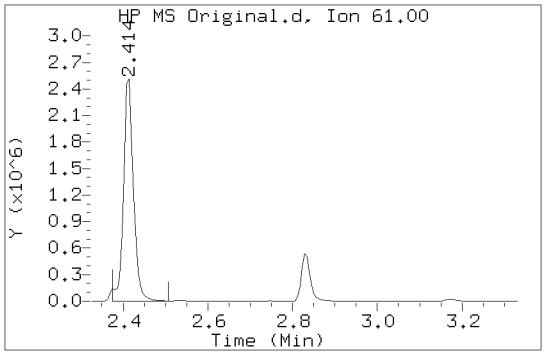
03-Jul-2024
03:26



AFTER

MASS
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HEIGHT
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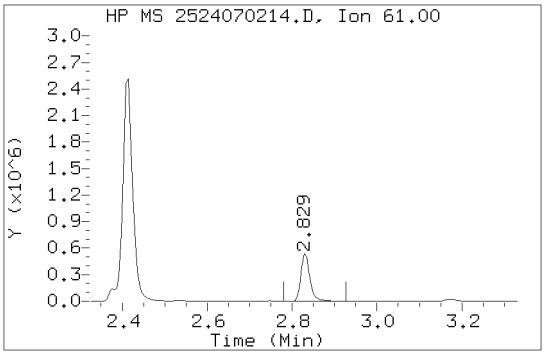
09-Jul-2024
12:44



BEFORE

MASS
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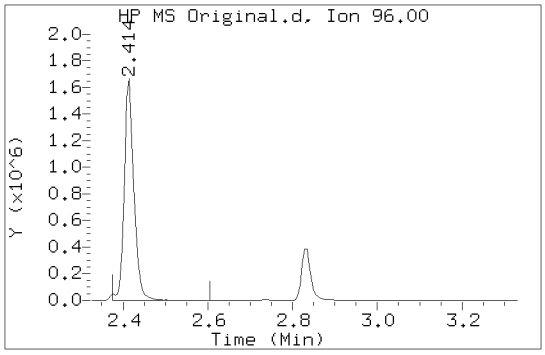
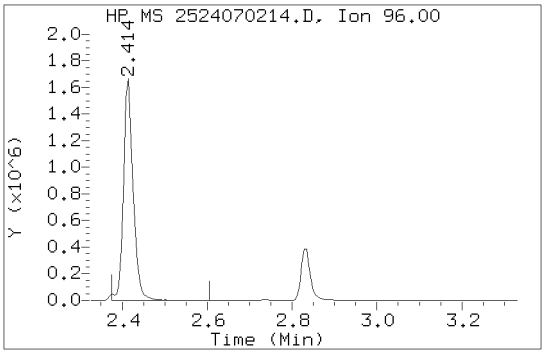
AREA
2643611
HEIGHT
1666560
03-Jul-2024
03:26



AFTER

MASS
96
AREA
2643611
HEIGHT
1666560
09-Jul-2024
12:44



BEFORE

MASS
98
AREA
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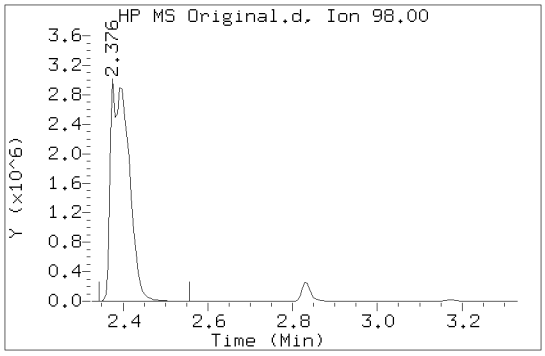
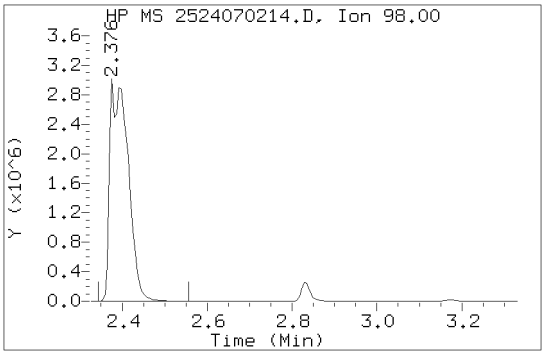
HEIGHT
3015389
03-Jul-2024
03:26



AFTER

MASS
98
AREA
8966217
HEIGHT
3015389
09-Jul-2024
12:44



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Inj Date : 02-JUL-2024 14:34
InstruID : ms25.i
LabSampID : 3366026021

Fluorobenzene (462-06-6)

Reason Code:

BEFORE
MASS
96
AREA
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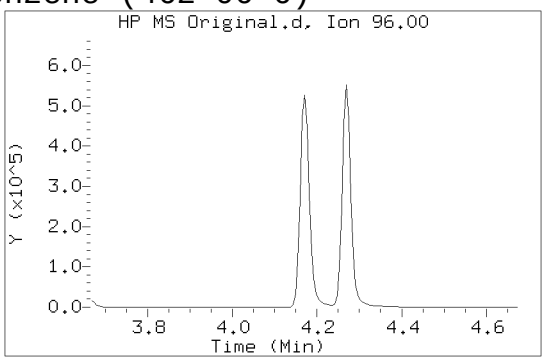
HEIGHT
8388096
03-Jul-2024
03:26



AFTER
MASS
96
AREA
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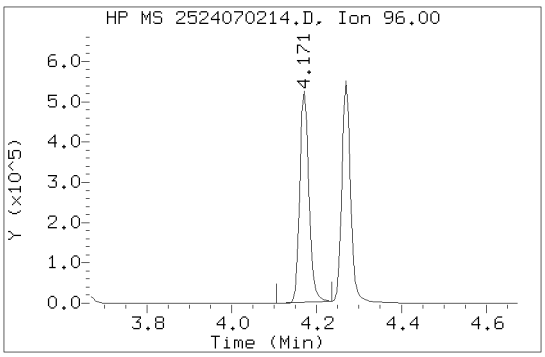
HEIGHT
524267
09-Jul-2024
12:44



BEFORE
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70
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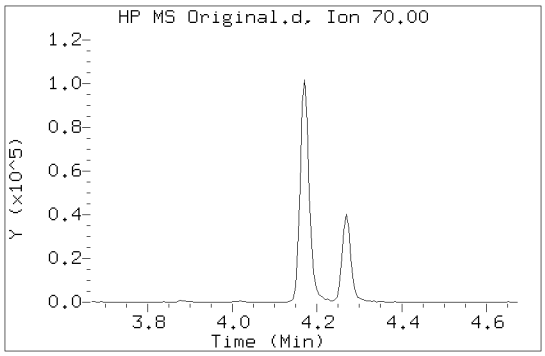
HEIGHT
885120
03-Jul-2024
03:26



AFTER
MASS
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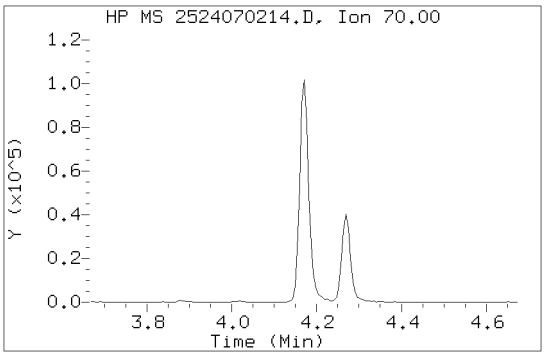
HEIGHT
885120
09-Jul-2024
12:44



Freon 113 (76-13-1)

Reason Code:

BEFORE
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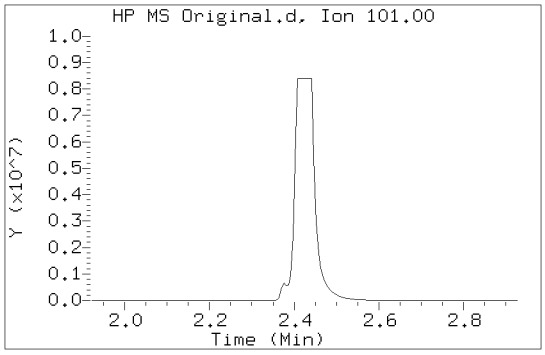
101
AREA
0
HEIGHT
0
03-Jul-2024
03:26



AFTER
MASS
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AREA
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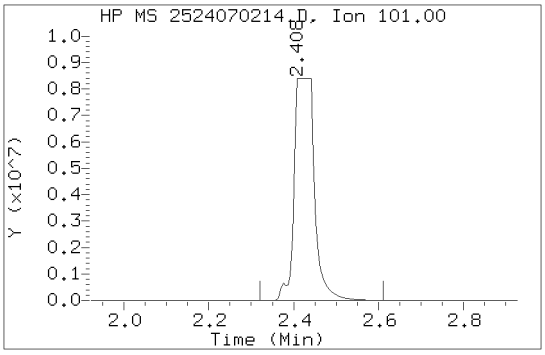
HEIGHT
8386585
09-Jul-2024
12:44



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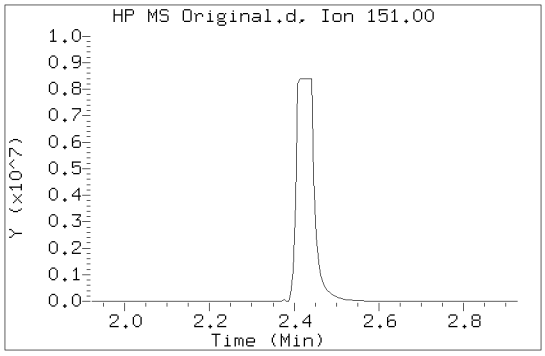
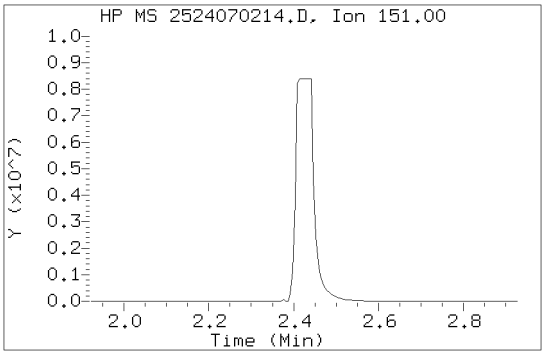
HEIGHT
0
03-Jul-2024
03:26



AFTER
MASS
151
AREA
0
HEIGHT
0
09-Jul-2024
12:44



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Inj Date : 02-JUL-2024 14:34
InstruID : ms25.i
LabSampID : 3366026021

Freon 113 (76-13-1)

Reason Code:

BEFORE

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103
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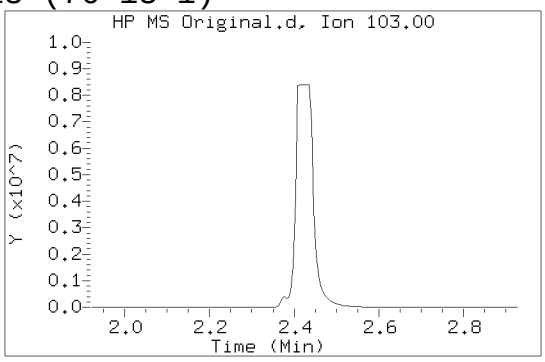
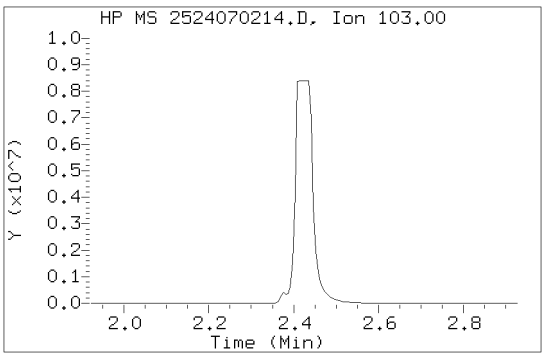
03-Jul-2024
03:26



AFTER

MASS
103
AREA
0
HEIGHT
0
09-Jul-2024
12:44



Methylene Chloride (75-09-2)

Reason Code:

BEFORE

MASS
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HEIGHT
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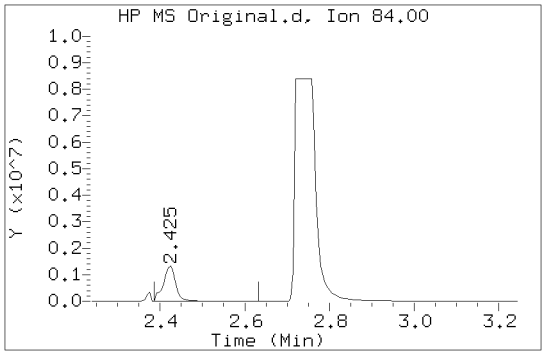
03-Jul-2024
03:26



AFTER

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AREA
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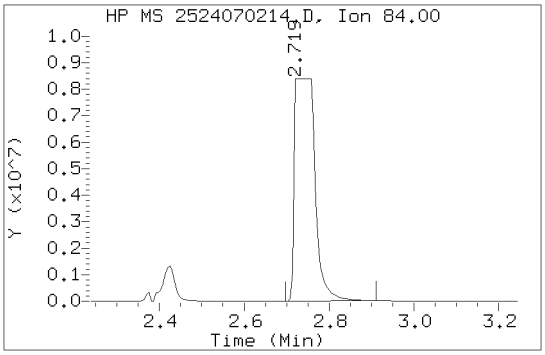
HEIGHT
8385798
09-Jul-2024
12:44



BEFORE

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49
AREA
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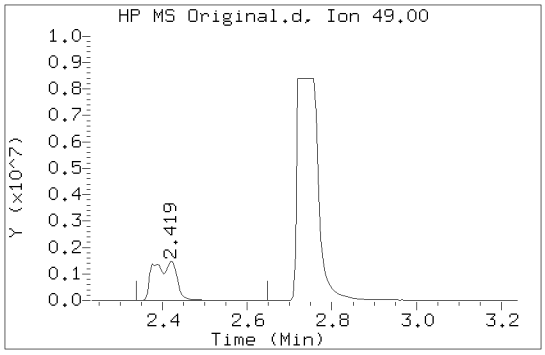
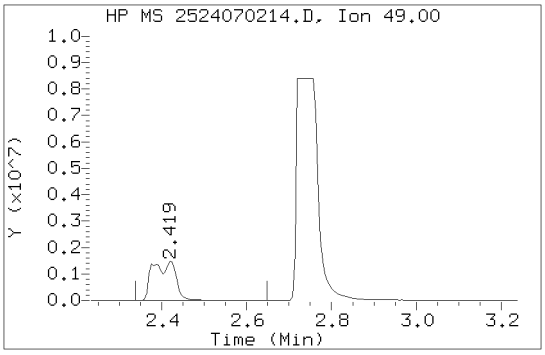
HEIGHT
1489246
03-Jul-2024
03:26



AFTER

MASS
49
AREA
5608598
HEIGHT
1489246
09-Jul-2024
12:44



BEFORE

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86
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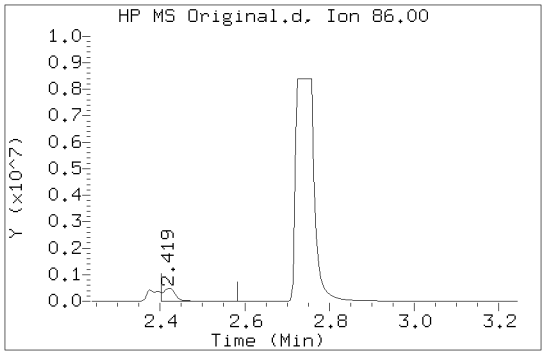
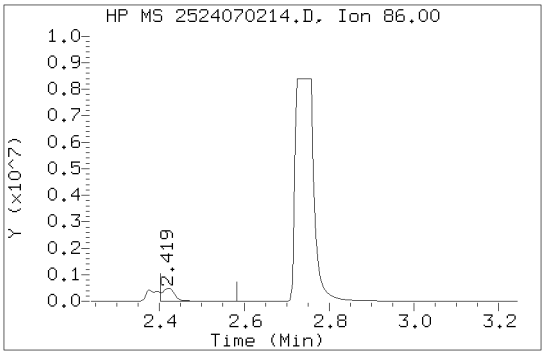
HEIGHT
487872
03-Jul-2024
03:26



AFTER

MASS
86
AREA
1002860
HEIGHT
487872
09-Jul-2024
12:44



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Inj Date : 02-JUL-2024 14:34
InstruID : ms25.i
LabSampID : 3366026021

Trichloroethene (79-01-6)

Reason Code:

BEFORE
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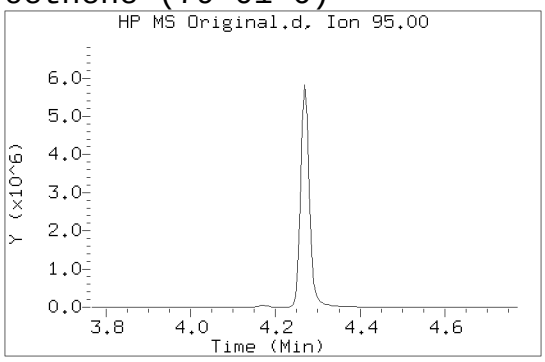
95
AREA
0
HEIGHT
0
03-Jul-2024
03:26



AFTER
MASS
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AREA
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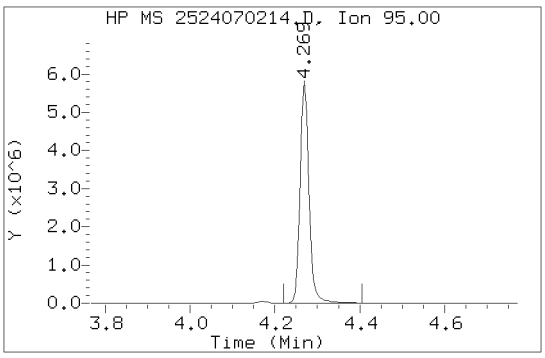
HEIGHT
5819350
09-Jul-2024
12:44



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MASS
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HEIGHT
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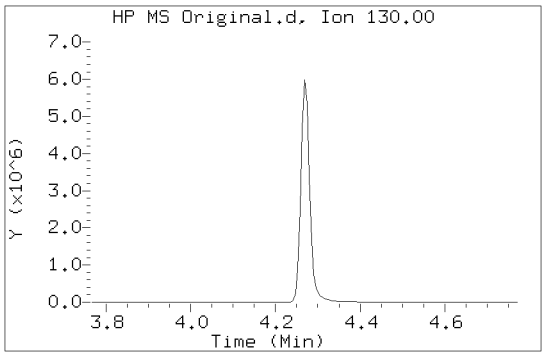
03-Jul-2024
03:26



AFTER
MASS
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AREA
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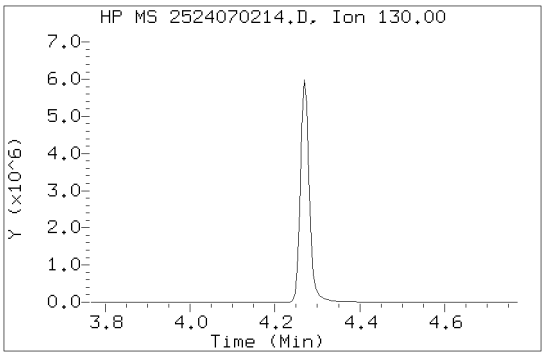
HEIGHT
0
09-Jul-2024
12:44



BEFORE
MASS
132
AREA
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HEIGHT
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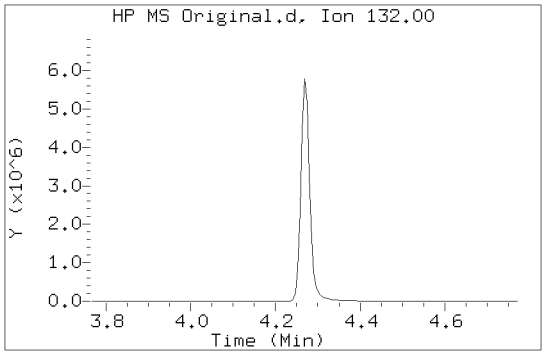
03-Jul-2024
03:26



AFTER
MASS
132
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HEIGHT
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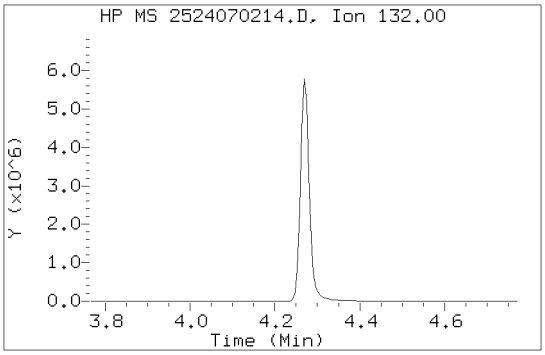
09-Jul-2024
12:44



Vinyl Chloride (75-01-4)

Reason Code:

BEFORE
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HEIGHT
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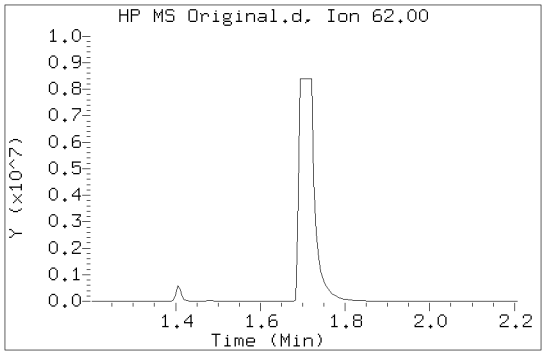
03-Jul-2024
03:26



AFTER
MASS
62
AREA
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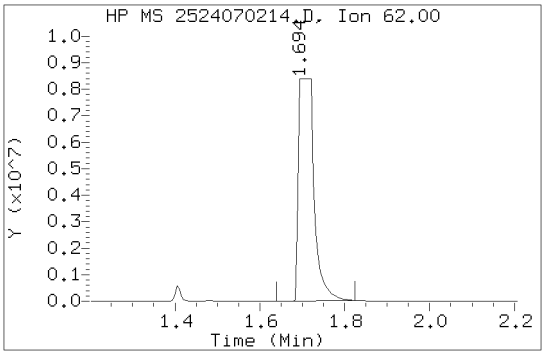
HEIGHT
8380411
09-Jul-2024
12:44



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Inj Date : 02-JUL-2024 14:34
InstruID : ms25.i
LabSampID : 3366026021

Vinyl Chloride (75-01-4)

Reason Code:

BEFORE
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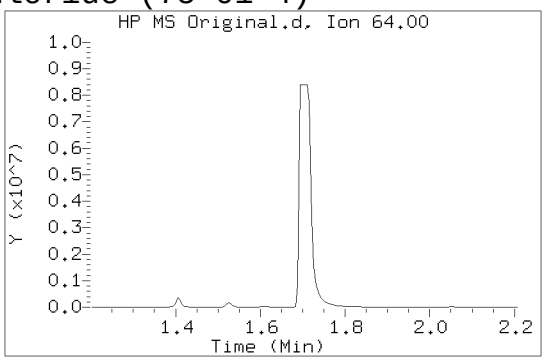
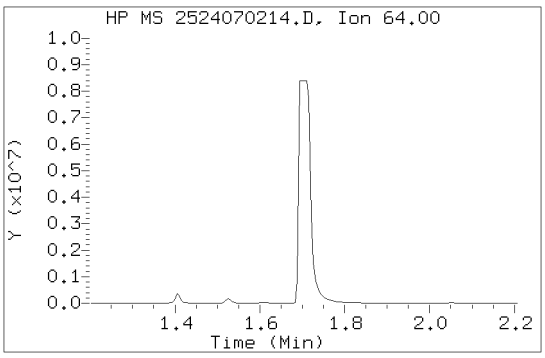
64
AREA
0
HEIGHT
0
03-Jul-2024
03:26



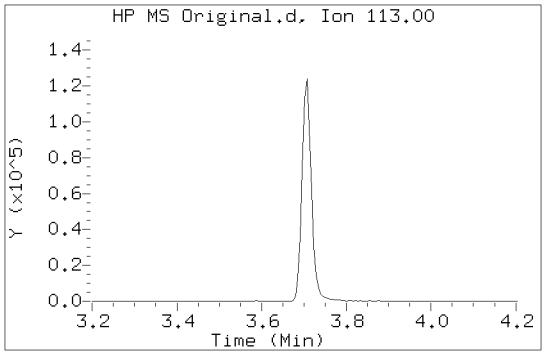
AFTER
MASS
64
AREA
0
HEIGHT
0
09-Jul-2024
12:44



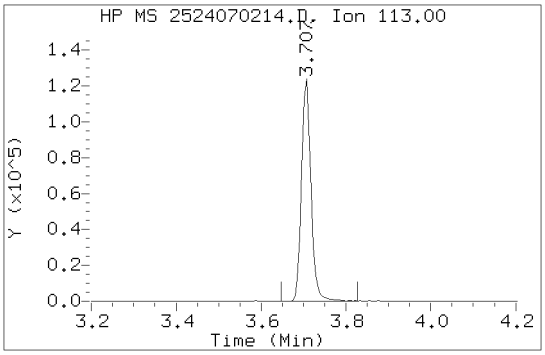
Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE
MASS
113
AREA
0
HEIGHT
0
03-Jul-2024
03:26



AFTER
MASS
113
AREA
191859
HEIGHT
123863
09-Jul-2024
12:44



BEFORE
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AREA
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HEIGHT
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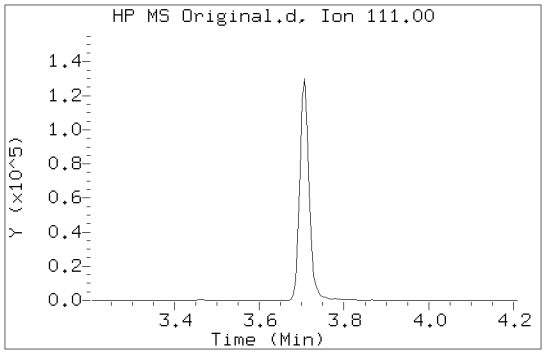
03-Jul-2024
03:26



AFTER
MASS
111
AREA
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HEIGHT
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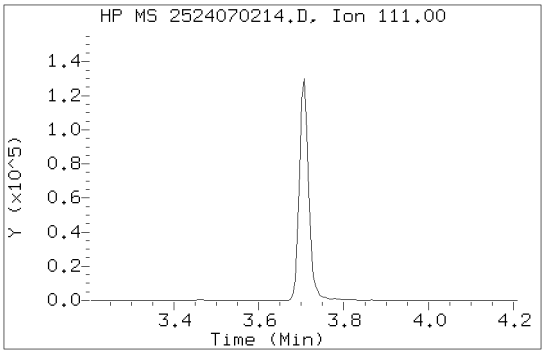
09-Jul-2024
12:44



1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
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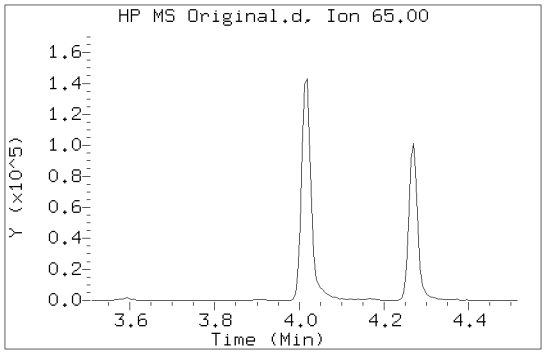
03-Jul-2024
03:26



AFTER
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AREA
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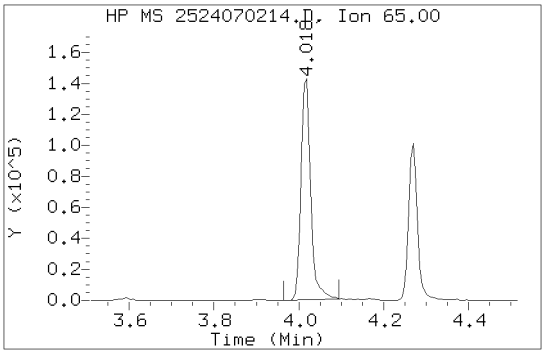
HEIGHT
142640
09-Jul-2024
12:44



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InstruID : ms25.i
LabSampID : 3366026021

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE
MASS
102
AREA
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HEIGHT
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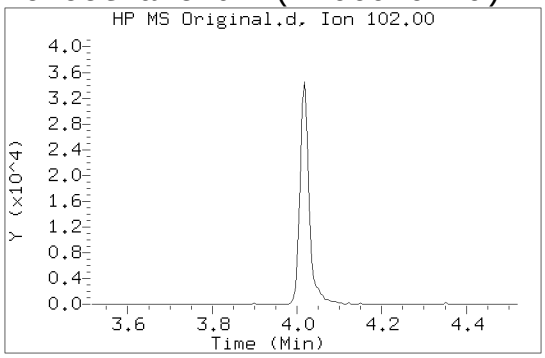
03-Jul-2024
03:26



AFTER
MASS
102
AREA
0
HEIGHT
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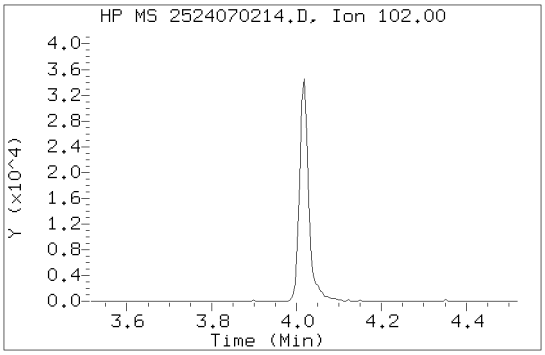
09-Jul-2024
12:44



BEFORE
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AREA
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HEIGHT
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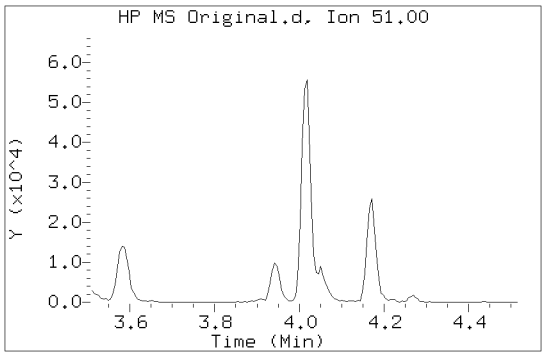
03-Jul-2024
03:26



AFTER
MASS
51
AREA
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HEIGHT
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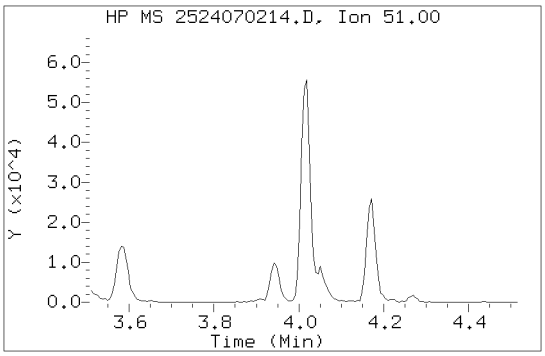
09-Jul-2024
12:44



UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:45
Client ID: ICT14D_062024
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407021
Inj Date: 02-JUL-2024 14:34
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
Acetonitrile
tert-Amyl Ethylether
Bromodichloromethane
2-Butanone
tert.- Butyl Alcohol
sec-Butylbenzene
2-Chloroethylvinyl ether
1-Chlorohexane
Chloromethane
3-Chloro-1-propene
1,1-Dichloro-2-propanone
1,2-Dibromoethane
1,2-Dichloroethane
Dichlorofluoromethane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Diisopropyl ether
Ethyl methacrylate
Ethyl acetate
Ethyl tert-butyl ether
2-Hexanone
Isopropyl Alcohol
Methyl acetate
Methyl cyclohexane
2-Nitropropane
n-Propanol
n-Propylbenzene
Styrene
1,1,1,2-Tetrachloroethane
Tetrahydrofuran
1,1,1-Trichloroethane
Vinyl acetate

Data File: 2524070226.D Page 1
Report Date: 09-Jul-2024 12:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070226.D
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Inj Date : 02-JUL-2024 18:39
Operator : TMP Inst ID: ms25.i
Smp Info : 3847323;;1;3;;MS;1;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
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Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 26 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	244065	27.2424	27.2424	
2 Chloromethane	50	1.644	1.644	(0.394)	197703	25.2113	25.2113	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	1099452	108.557	108.557(R)	
4 Bromomethane	94	1.922	1.922	(0.461)	123047	25.1659	25.1659	
5 Chloroethane	64	1.999	2.004	(0.479)	161778	23.4856	23.4856(QM)	
6 Pentane	41	2.086	2.092	(0.500)	137476	21.1822	21.1822	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	268707	19.3696	19.3696(QM)	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	287854	22.4251	22.4251(QM)	
9 Ethyl Ether	74	2.277	2.277	(0.546)	82602	21.1614	21.1614	
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	579883	74.4474	74.4474(QR)	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	382550	22.7672	22.7672(Q)	
11 Freon 113	101	2.413	2.424	(0.579)	19237822	3511.47	3511.47(AR)	
13 Iodomethane	127	2.506	2.506	(0.601)	46963	15.9046	15.9046	
14 Acrolein	56	2.599	2.599	(0.623)	189697	150.986	150.986	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	149851	22.1755	22.1755	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	40087	95.6743	95.6743	
17 Methylene Chloride	84	2.741	2.741	(0.657)	2323153	365.131	365.131(AR)	
18 Acetone	58	2.752	2.752	(0.660)	69619	98.7616	98.7616	
19 Methyl acetate	74	2.812	2.812	(0.674)	24546	16.6724	16.6724(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	211261	27.6919	27.6919(R)	
21 Hexane	57	2.861	2.866	(0.686)	256495	20.0373	20.0373	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	376134	19.3602	19.3602	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	74578	105.978	105.978	
	24 Acetonitrile	41	3.019	3.019	(0.724)	88283	111.997	111.997	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	383899	22.6737	22.6737	
	26 Chloroprene	53	3.155	3.156	(0.757)	200633	23.3729	23.3729	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	258995	24.9187	24.9187	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	293089	108.276	108.276	
	30 n-Propanol	41	3.264	3.265	(0.783)	72879	218.486	218.486(Q)	
	29 Ethyl tert-butyl ether	59	3.264	3.265	(0.783)	402234	22.3679	22.3679	
	31 Vinyl acetate	86	3.275	3.276	(0.785)	25342	14.5577	14.5577(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	9819260	1269.39	1269.39(AR)	
	33 2,2-Dichloropropane	77	3.526	3.527	(0.846)	164891	19.9053	19.9053	
M	100 1,2-Dichloroethene, Total	61				10030521	1297.09	1297.09(R)	
	34 Bromochloromethane	128	3.575	3.576	(0.857)	70977	21.2772	21.2772	
	35 Cyclohexane	84	3.592	3.587	(0.861)	230367	24.8198	24.8198	
	36 Chloroform	83	3.597	3.598	(0.863)	267831	23.8703	23.8703	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	93824	13.8841	13.8841(M)	
	38 Methyl acrylate	55	3.657	3.652	(0.877)	135987	21.8315	21.8315	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	169668	20.8040	20.8040(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	192854	101.275	101.275	
$	41 Dibromofluoromethane	113	3.706	3.701	(0.889)	190430	29.8076	29.8076	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	206275	23.6193	23.6193(QM)	
	43 2-Butanone	72	3.761	3.761	(0.902)	102720	111.584	111.584(Q)	
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	185039	22.3993	22.3993	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	124825	23.4968	23.4968	
	46 Heptane	71	3.887	3.887	(0.932)	103731	21.6131	21.6131	
	48 Propionitrile	54	3.941	3.941	(0.945)	112814	110.060	110.060	
	47 Benzene	78	3.941	3.941	(0.945)	567788	22.3616	22.3616	
	49 Methacrylonitrile	67	3.957	3.952	(0.949)	67113	21.8415	21.8415	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	379904	21.8855	21.8855	
$	51 1,2-Dichloroethane-d4	65	4.017	4.012	(0.963)	233331	34.6466	34.6466	
	54 Isobutyl alcohol	42	3.990	3.990	(0.957)	37882	244.397	244.397(Q)	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	280975	35.2013	35.2013(R)	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	49866	92.3590	92.3590	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	809680	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	272241	16.3812	16.3812	
	57 Trichloroethene	95	4.268	4.269	(1.024)	8291956	1290.34	1290.34(AR)	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	356847	34.1828	34.1828(QR)	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	282619	18.8421	18.8421	
	60 Dibromomethane	93	4.525	4.525	(1.085)	88107	21.6881	21.6881	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	139003	22.7460	22.7460	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	162851	19.3633	19.3633(QM)	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	101162	20.9164	20.9164(QM)	
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	201074	18.6450	18.6450	
	67 Octane	85	5.000	4.994	(0.810)	78697	19.8819	19.8819	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	753288	29.5631	29.5631	
	69 Toluene	92	5.152	5.153	(0.835)	339363	21.0129	21.0129	
	70 Chloroacetonitrile	75	5.212	5.207	(0.844)	42102	104.574	104.574	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	158046	90.4423	90.4423	
	72 1,1-Dichloro-2-propanone	63	5.311	5.311	(0.860)	15111	89.5104	89.5104	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	689362	108.661	108.661	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	194656	19.4886	19.4886	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	398112	67.6964	67.6964(R)	
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	183791	19.0771	19.0771	

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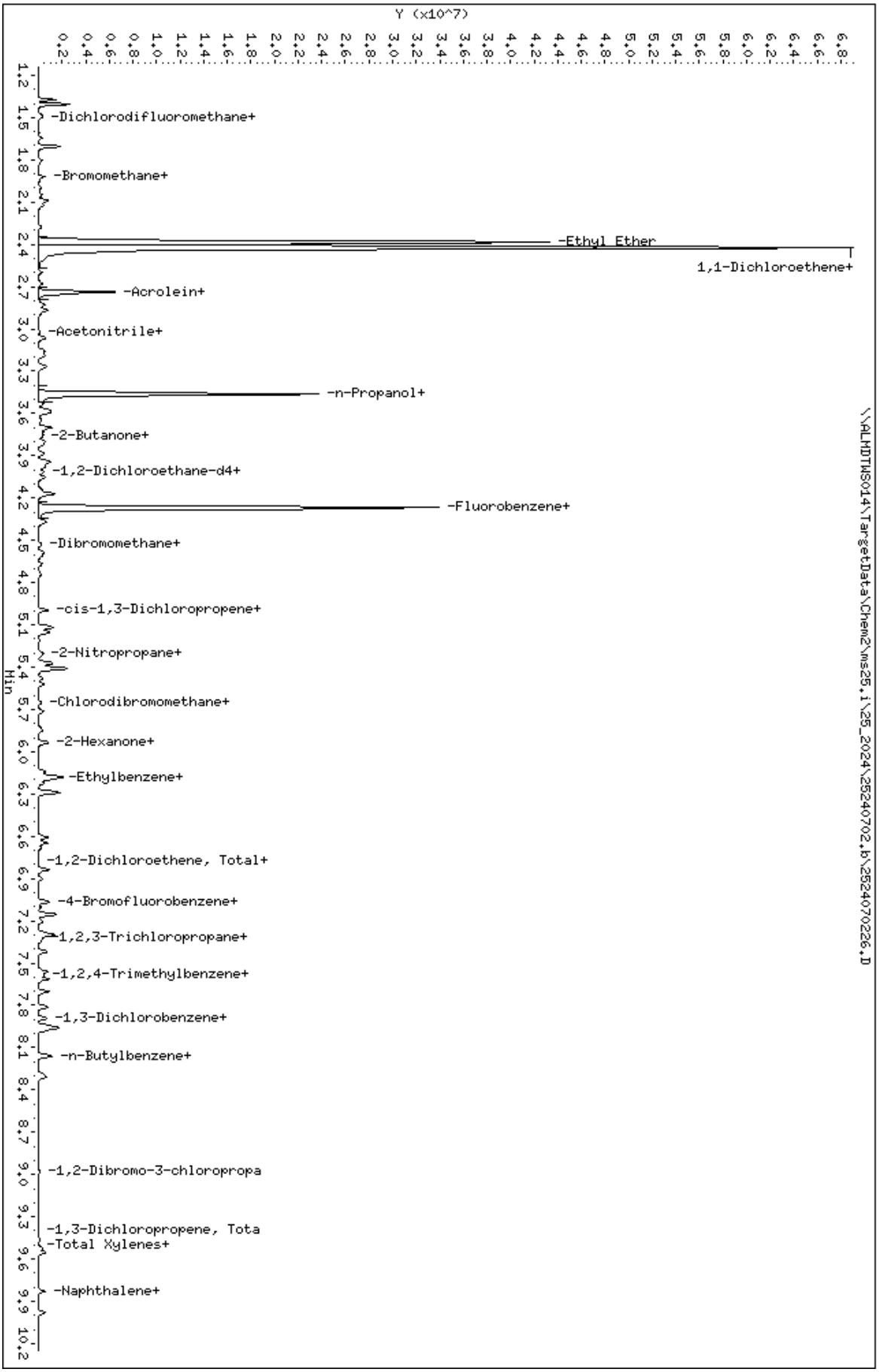
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
77 1,1,2-Trichloroethane	83	5.523	5.524	(0.895)	109291	22.0253	22.0253	
78 Chlorodibromomethane	129	5.649	5.649	(0.915)	126287	18.1900	18.1900	
79 1,3-Dichloropropane	76	5.714	5.715	(0.926)	215595	21.9907	21.9907	
80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	125851	19.1993	19.1993	
81 2-Hexanone	43	5.933	5.933	(0.961)	456739	105.032	105.032	
82 1-Chlorohexane	91	6.145	6.140	(0.996)	178706	21.0335	21.0335	
* 83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	321837	30.0000		
85 Ethylbenzene	106	6.189	6.189	(1.003)	196687	20.3602	20.3602	
84 Chlorobenzene	112	6.184	6.184	(1.002)	353281	21.4654	21.4654	
86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	121711	19.7795	19.7795	
87 mp-Xylene	106	6.287	6.288	(1.019)	462268	39.9869	39.9869	
M 120 1,3-Dichloropropene, Total	75				395730	38.1336	38.1336	
88 o-Xylene	106	6.609	6.610	(1.071)	218152	19.9181	19.9181	
89 Styrene	104	6.647	6.648	(0.836)	341886	21.3162	21.3162	
90 Bromoform	173	6.680	6.680	(0.840)	79832	17.7158	17.7158	
91 Isopropylbenzene	105	6.838	6.839	(0.860)	563660	25.0794	25.0794	
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	219246	28.9928	28.9928	
M 121 TOTAL XYLENES	106				680420	59.9049	59.9049	
94 n-Propylbenzene	120	7.155	7.155	(0.900)	151117	22.8666	22.8666	
93 Bromobenzene	156	7.155	7.155	(0.900)	144378	22.3399	22.3399	
95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	154375	24.0328	24.0328	
97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	434459	23.6216	23.6216	
96 o-Chlorotoluene	91	7.291	7.292	(0.917)	417584	24.0167	24.0167	
98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	47633	22.9915	22.9915	
99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	40921	20.9298	20.9298	
101 p-Chlorotoluene	91	7.417	7.417	(0.933)	373272	23.7011	23.7011	
102 tert-Butylbenzene	134	7.559	7.559	(0.951)	109505	24.8938	24.8938(R)	
103 Pentachloroethane	117	7.586	7.586	(0.954)	98067	22.3632	22.3632(M)	MP
104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	425799	21.7774	21.7774	
105 sec-Butylbenzene	105	7.701	7.701	(0.968)	565901	24.8947	24.8947	
106 p-Isopropyltoluene	134	7.810	7.810	(0.982)	120833	23.2122	23.2122	
107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	247882	22.7666	22.7666	
* 108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	273347	30.0000		
109 1,4-Dichlorobenzene	146	7.962	7.963	(1.001)	251437	22.1549	22.1549	
111 n-Butylbenzene	134	8.159	8.159	(1.026)	111198	22.8583	22.8583(Q)	
110 Benzyl Chloride	126	8.159	8.159	(1.026)	41694	15.6530	15.6530(Q)	
112 Hexachloroethane	117	8.290	8.290	(1.043)	78879	20.4532	20.4532	
113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	231745	22.3445	22.3445	
114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	21979	18.1574	18.1574	
115 Nitrobenzene	77	9.463	9.463	(1.190)	58857	159.359	159.359	
116 Hexachlorobutadiene	225	9.528	9.529	(1.198)	69477	20.3981	20.3981	
117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	156390	22.7697	22.7697	
118 Naphthalene	128	9.829	9.829	(1.236)	373954	18.7246	18.7246	
119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	142129	18.6018	18.6018	

QC Flag Legend

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



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Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: THP
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Page 1

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Inj Date : 02-JUL-2024 18:39
InstruID : ms25.i
LabSampID : 3847323

Bromodichloromethane (75-27-4)

Reason Code:

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03-Jul-2024
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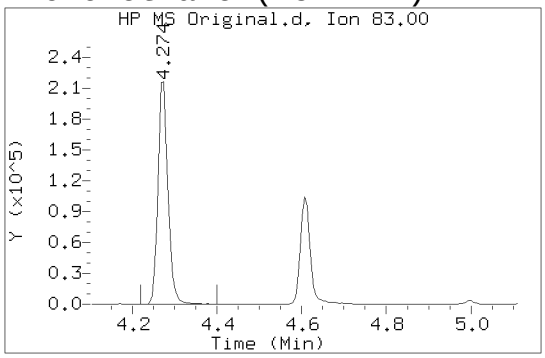

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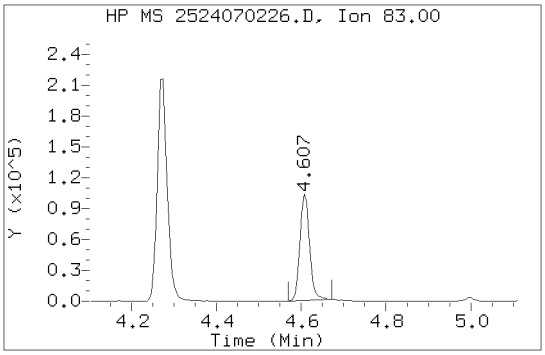

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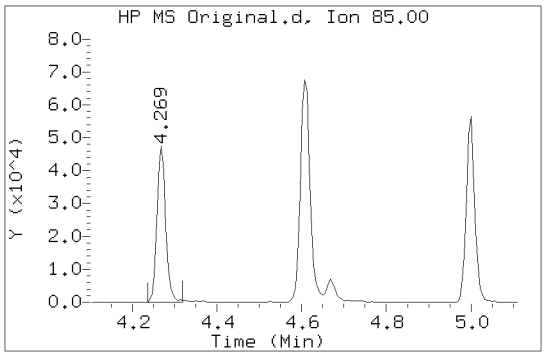

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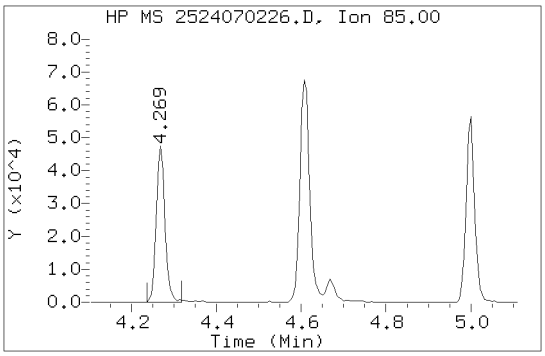

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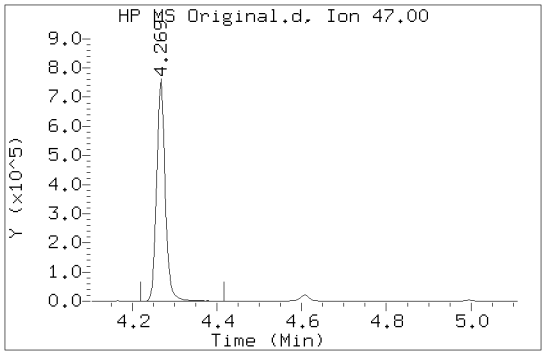

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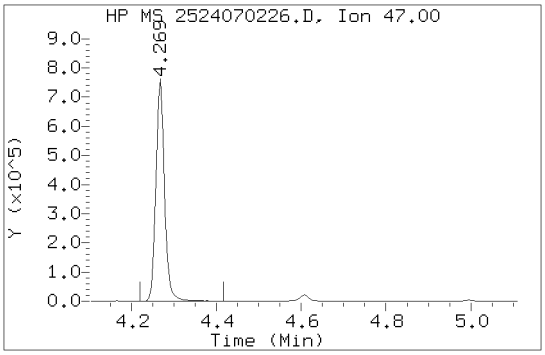

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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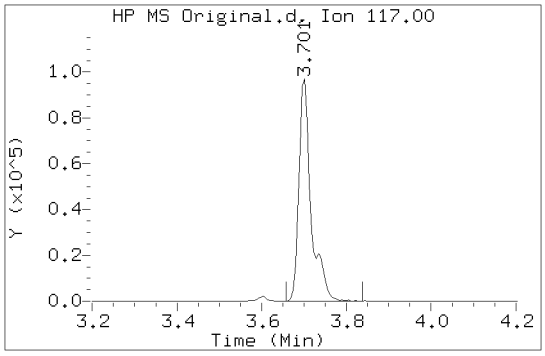

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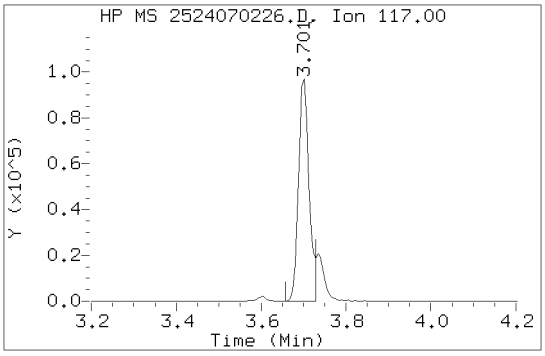

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Inj Date : 02-JUL-2024 18:39
InstruID : ms25.i
LabSampID : 3847323

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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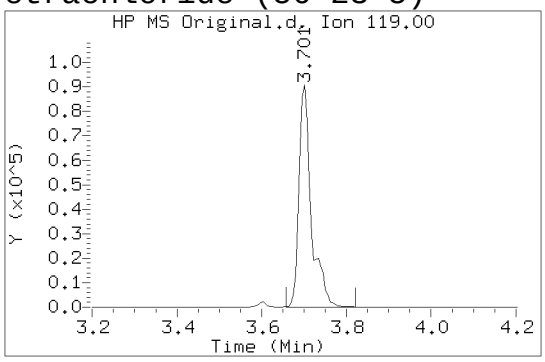

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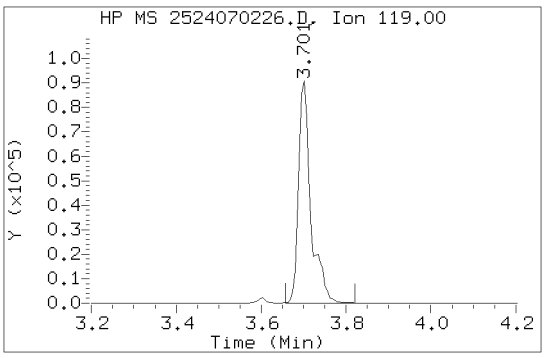

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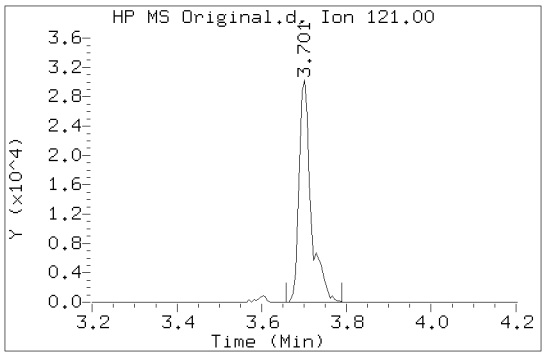

AFTER
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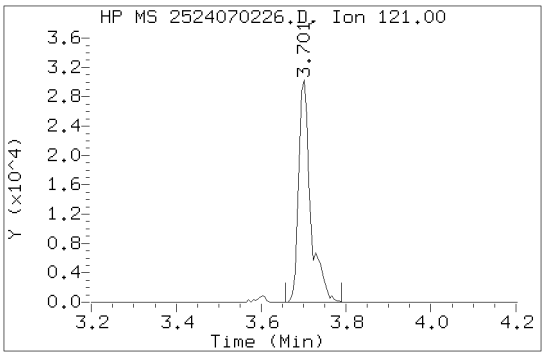
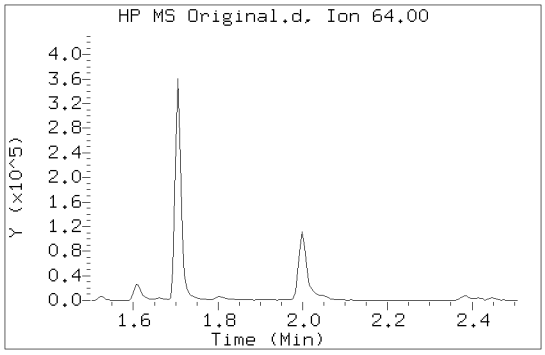
09-Jul-2024
12:31



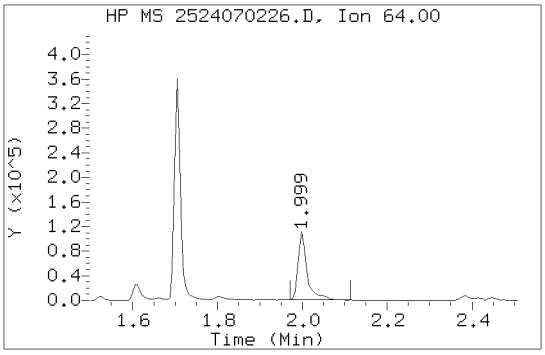
Chloroethane (75-00-3)

Reason Code:

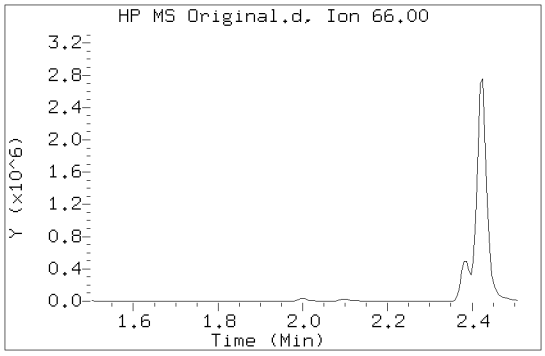
BEFORE
MASS
64
AREA
0
HEIGHT
0
03-Jul-2024
03:27



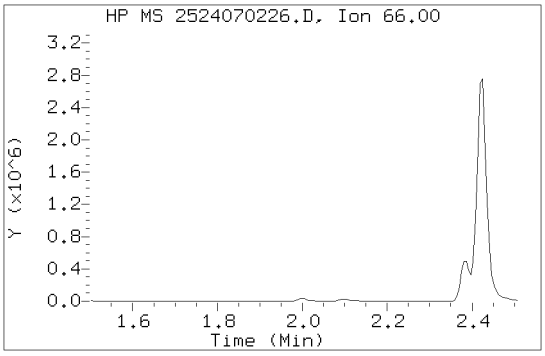
AFTER
MASS
64
AREA
161778
HEIGHT
110695
09-Jul-2024
12:31



BEFORE
MASS
66
AREA
0
HEIGHT
0
03-Jul-2024
03:27



AFTER
MASS
66
AREA
0
HEIGHT
0
09-Jul-2024
12:31



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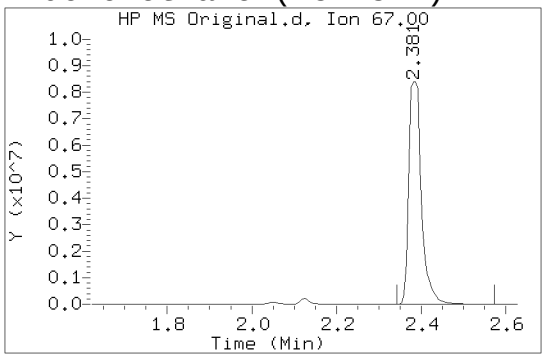
Inj Date : 02-JUL-2024 18:39
InstruID : ms25.i
LabSampID : 3847323

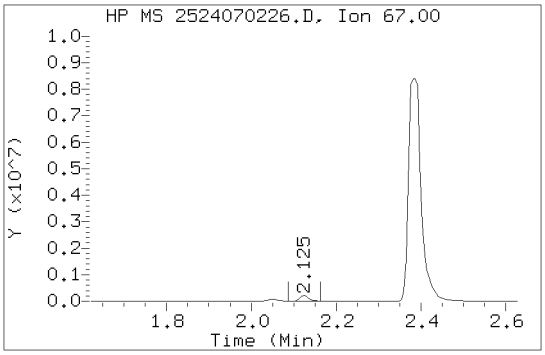
Dichlorofluoromethane (75-43-4)

Reason Code:

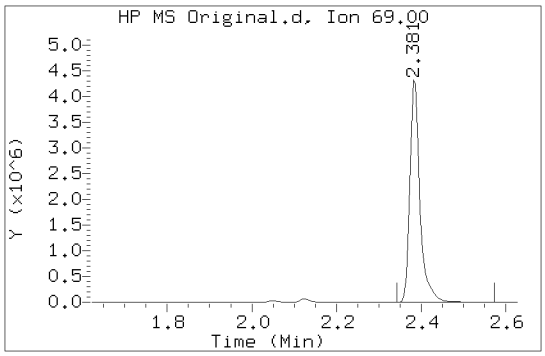
BEFORE
MASS
67
AREA
17500214
HEIGHT
8386712
03-Jul-2024
03:27



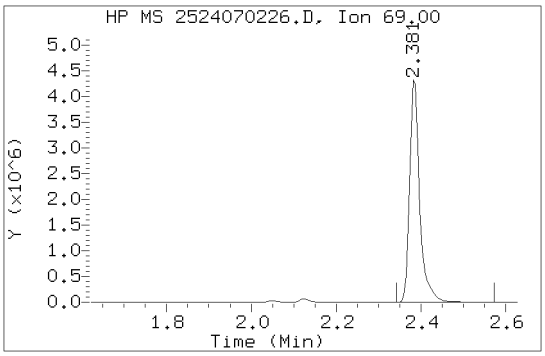
AFTER
MASS
67
AREA
287854
HEIGHT
211634
09-Jul-2024
12:31



BEFORE
MASS
69
AREA
7153563
HEIGHT
4325067
03-Jul-2024
03:27



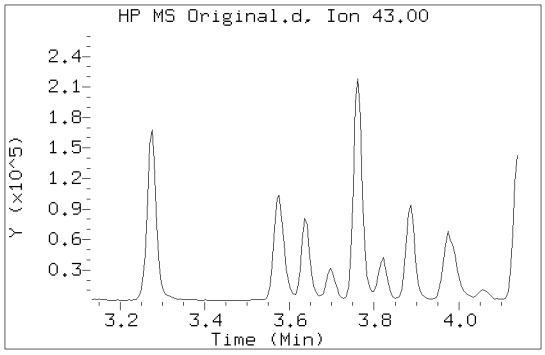
AFTER
MASS
69
AREA
7153563
HEIGHT
4325067
09-Jul-2024
12:31



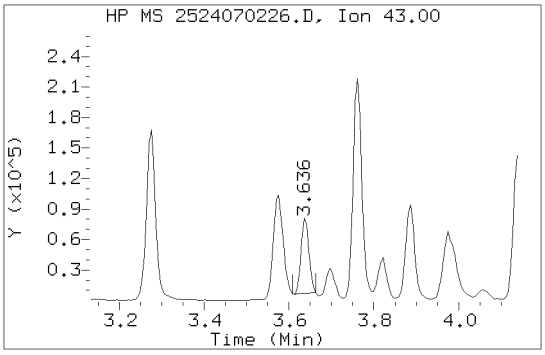
Ethyl acetate (141-78-6)

Reason Code:

BEFORE
MASS
43
AREA
0
HEIGHT
0
03-Jul-2024
03:27



AFTER
MASS
43
AREA
93824
HEIGHT
73874
09-Jul-2024
12:31



BEFORE
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61
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HEIGHT
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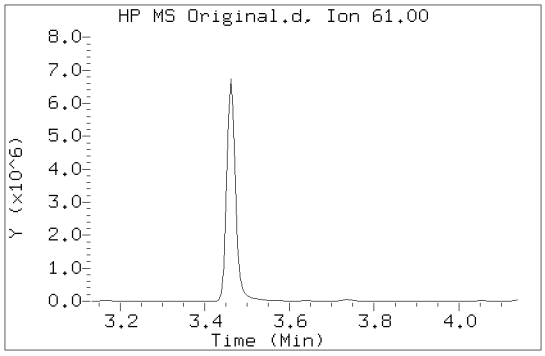
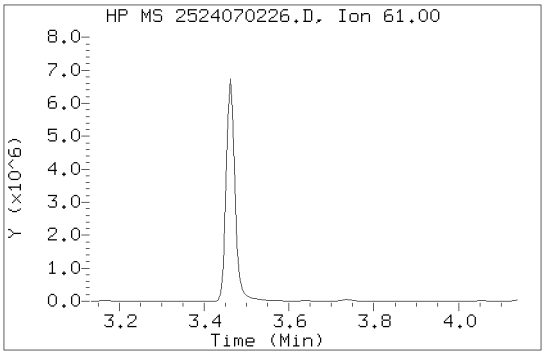
03-Jul-2024
03:27



AFTER
MASS
61
AREA
0
HEIGHT
0
09-Jul-2024
12:31



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Inj Date : 02-JUL-2024 18:39
InstruID : ms25.i
LabSampID : 3847323

Ethyl acetate (141-78-6)

Reason Code:

BEFORE
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70
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HEIGHT
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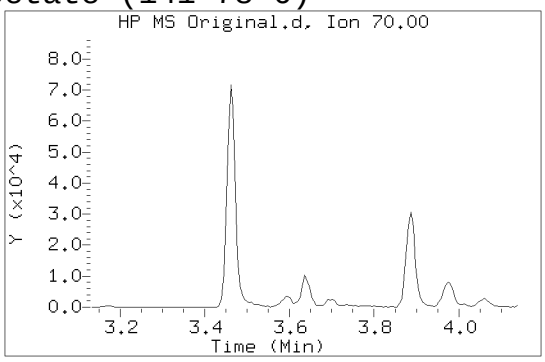
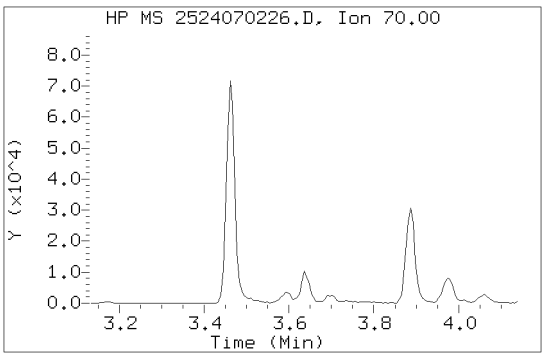
03-Jul-2024
03:27



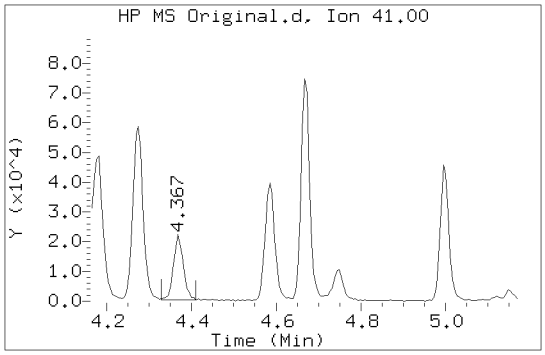
AFTER
MASS
70
AREA
0
HEIGHT
0
09-Jul-2024
12:31



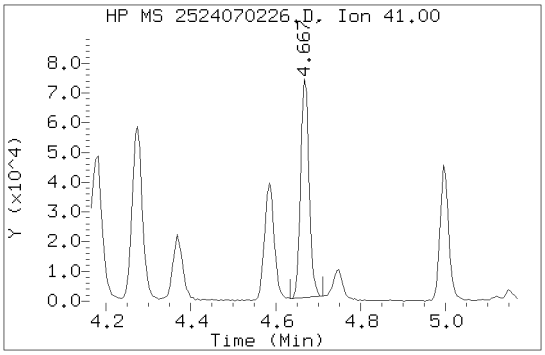
Methyl methacrylate (80-62-6)

Reason Code:

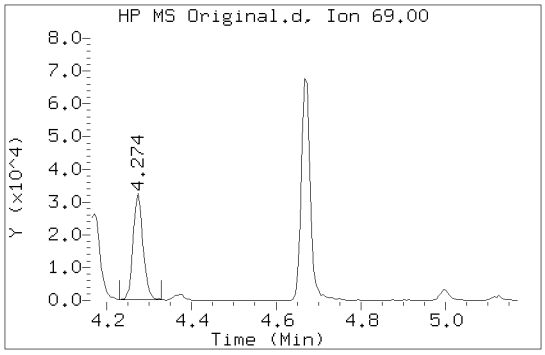
BEFORE
MASS
41
AREA
35874
HEIGHT
22180
03-Jul-2024
03:27



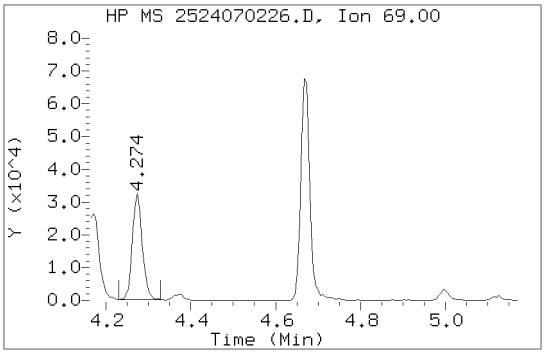
AFTER
MASS
41
AREA
101162
HEIGHT
73496
09-Jul-2024
12:31



BEFORE
MASS
69
AREA
53012
HEIGHT
32494
03-Jul-2024
03:27



AFTER
MASS
69
AREA
53012
HEIGHT
32494
09-Jul-2024
12:31



BEFORE
MASS
99
AREA
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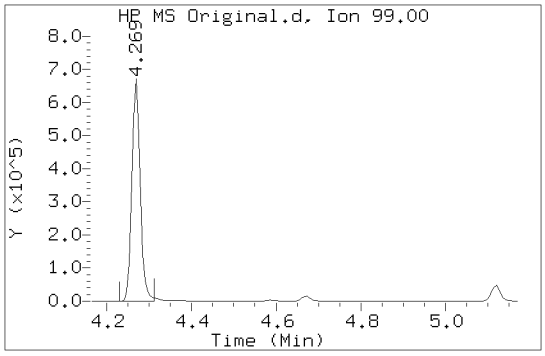
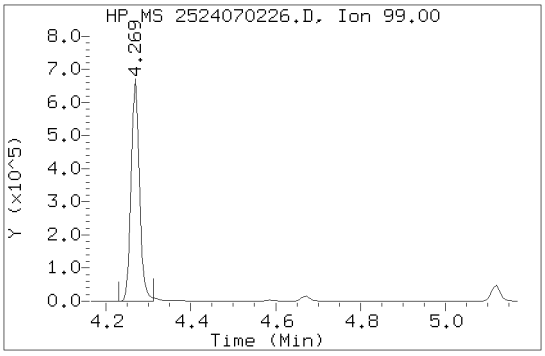
HEIGHT
671360
03-Jul-2024
03:27



AFTER
MASS
99
AREA
921177
HEIGHT
671360
09-Jul-2024
12:31



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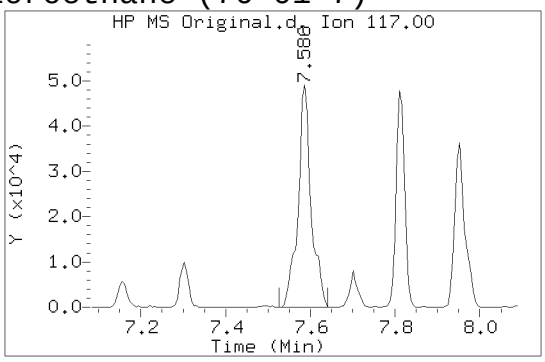
Inj Date : 02-JUL-2024 18:39
InstruID : ms25.i
LabSampID : 3847323

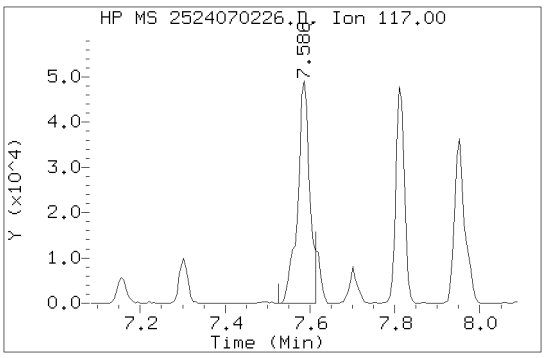
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
105484
HEIGHT
49120
03-Jul-2024
03:27



AFTER
MASS
117
AREA
98067
HEIGHT
49120
09-Jul-2024
12:31



BEFORE
MASS
119
AREA
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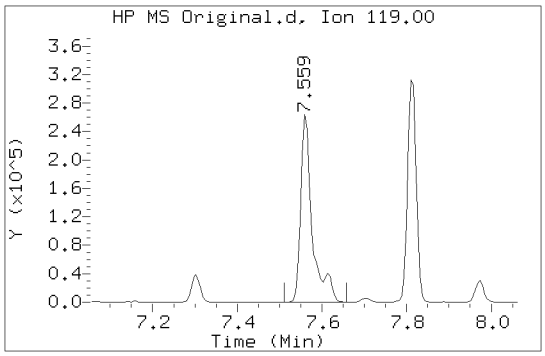
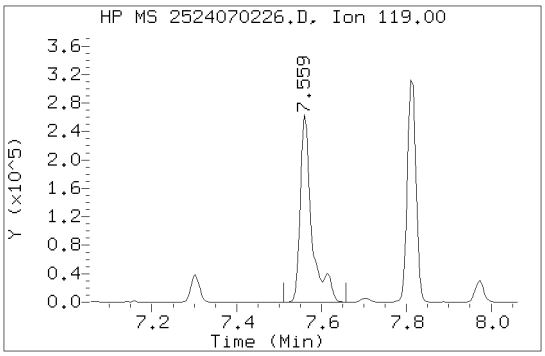
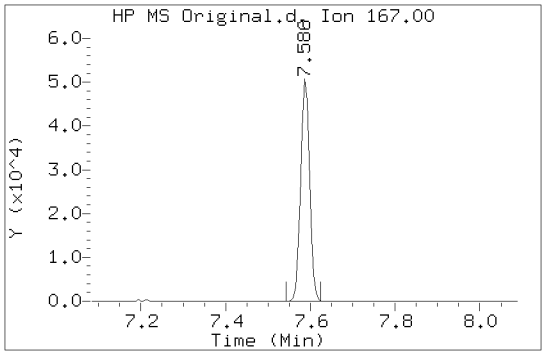
HEIGHT
263872
03-Jul-2024
03:27



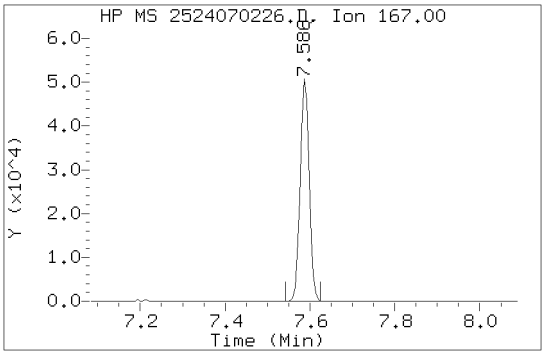
AFTER
MASS
119
AREA
501678
HEIGHT
263872
09-Jul-2024
12:31



BEFORE
MASS
167
AREA
74904
HEIGHT
50736
03-Jul-2024
03:27



AFTER
MASS
167
AREA
74904
HEIGHT
50736
09-Jul-2024
12:31



1,1,1-Trichloroethane (71-55-6)

Reason Code:

BEFORE
MASS
97
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44350
HEIGHT
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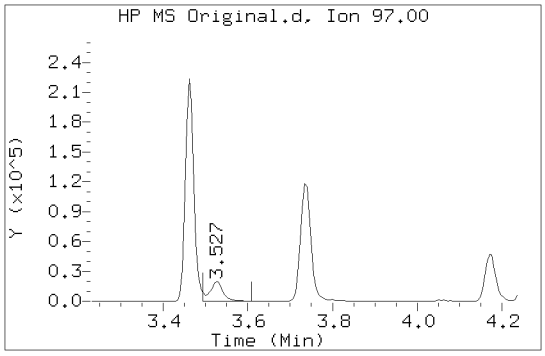
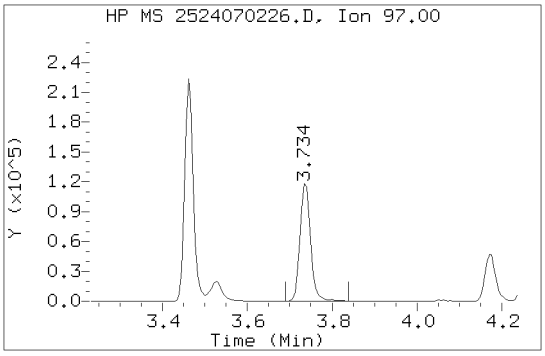
03-Jul-2024
03:27



AFTER
MASS
97
AREA
206275
HEIGHT
118416
09-Jul-2024
12:31



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Inj Date : 02-JUL-2024 18:39
InstruID : ms25.i
LabSampID : 3847323

1,1,1-Trichloroethane (71-55-6)

Reason Code:

BEFORE
MASS
99
AREA
26303
HEIGHT
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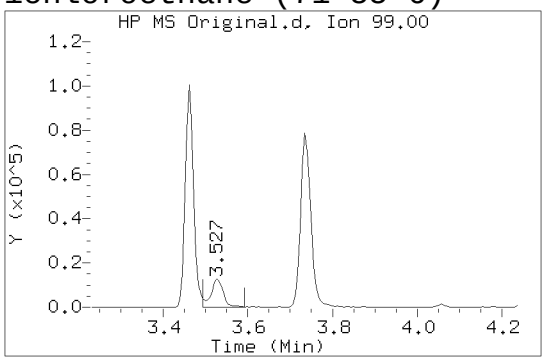
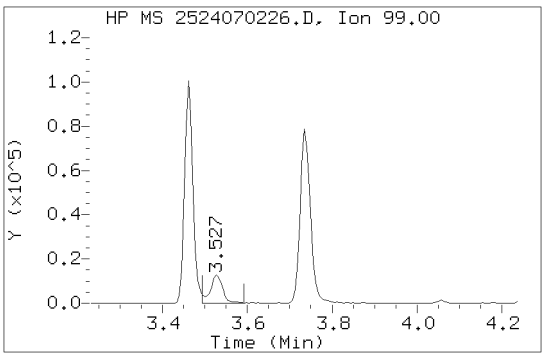
03-Jul-2024
03:27



AFTER
MASS
99
AREA
26303
HEIGHT
12653
09-Jul-2024
12:31



BEFORE
MASS
61
AREA
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HEIGHT
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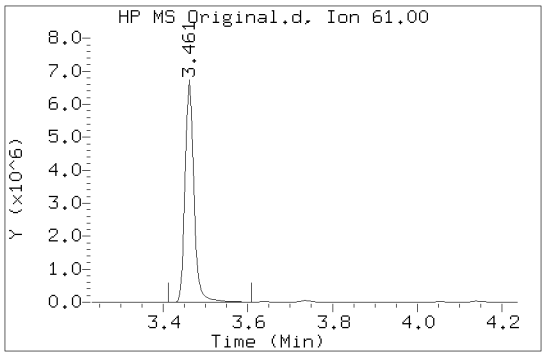
03-Jul-2024
03:27



AFTER
MASS
61
AREA
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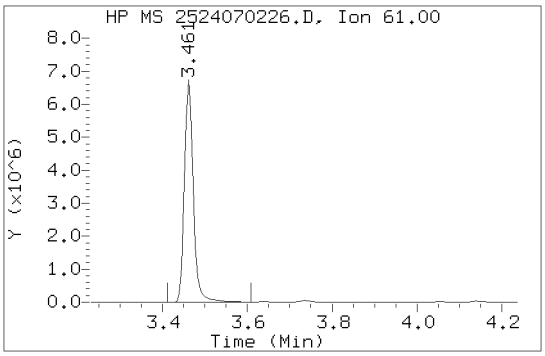
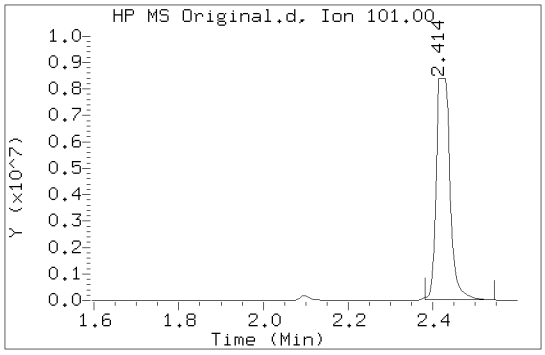
HEIGHT
6737408
09-Jul-2024
12:31



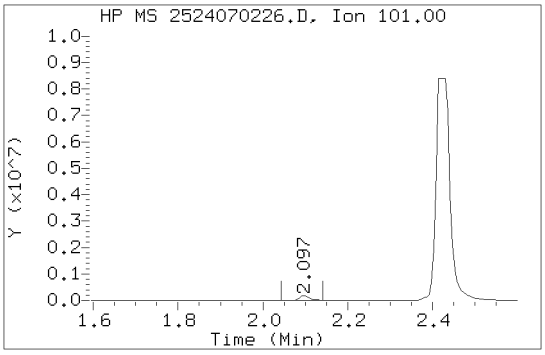
Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE
MASS
101
AREA
19081124
HEIGHT
8373383
03-Jul-2024
03:27



AFTER
MASS
101
AREA
268707
HEIGHT
175240
09-Jul-2024
12:31



BEFORE
MASS
103
AREA
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HEIGHT
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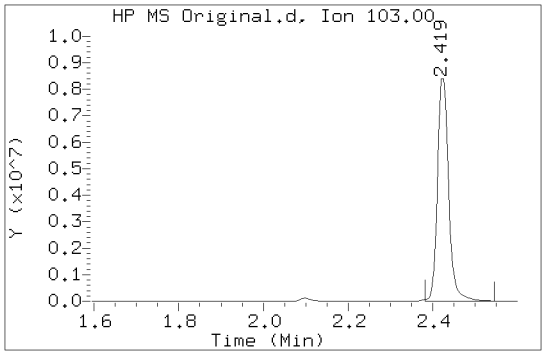
03-Jul-2024
03:27



AFTER
MASS
103
AREA
15366505
HEIGHT
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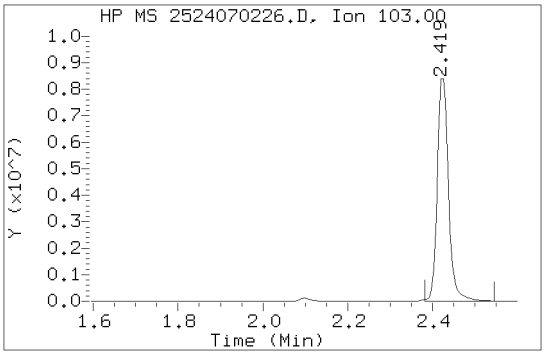
09-Jul-2024
12:31



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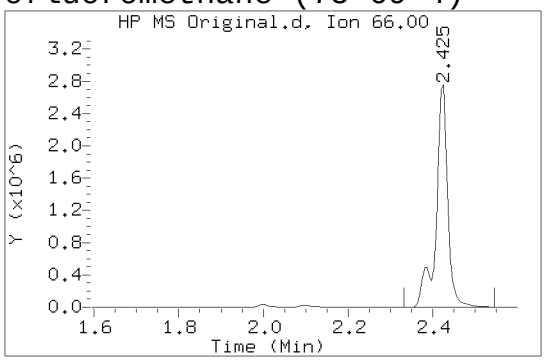
Inj Date : 02-JUL-2024 18:39
InstruID : ms25.i
LabSampID : 3847323

Trichlorofluoromethane (75-69-4)

Reason Code:

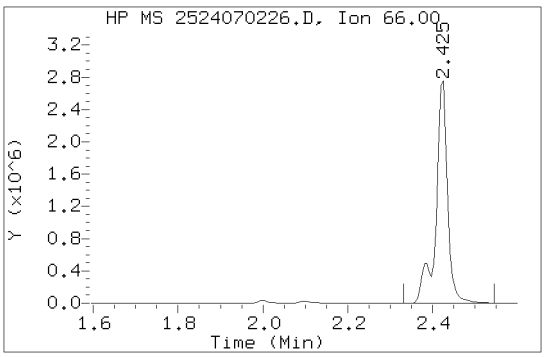
BEFORE

MASS
66
AREA
5283535
HEIGHT
2755072
03-Jul-2024
03:27



AFTER

MASS
66
AREA
5283535
HEIGHT
2755072
09-Jul-2024
12:31



UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:32
Client ID: 3366026004MS
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407022
Inj Date: 02-JUL-2024 18:39
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524070227.D Page 1
Report Date: 09-Jul-2024 12:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070227.D
Lab Smp Id: 3847324 Client Smp ID: 3366026004MSD
Inj Date : 02-JUL-2024 18:59
Operator : TMP Inst ID: ms25.i
Smp Info : 3847324;;1;3;;MSD;1;
Misc Info : ZZ VOMS 73685 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 26 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	241076	26.0364	26.0364	
2 Chloromethane	50	1.644	1.644	(0.394)	197358	24.3474	24.3474	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	1067955	102.029	102.029(R)	
4 Bromomethane	94	1.922	1.922	(0.461)	122108	24.1467	24.1467	
5 Chloroethane	64	1.999	2.004	(0.479)	157220	22.0656	22.0656(QM)	
6 Pentane	41	2.086	2.092	(0.500)	126523	18.7467	18.7467	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	261695	18.2526	18.2526(QM)	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	282667	21.3072	21.3072(QM)	
9 Ethyl Ether	74	2.277	2.277	(0.546)	82705	20.5009	20.5009	
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	564832	70.1643	70.1643(QR)	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	368044	21.1938	21.1938(Q)	
11 Freon 113	101	2.414	2.424	(0.579)	19143508	3380.98	3380.98(AR)	
13 Iodomethane	127	2.506	2.506	(0.601)	47786	15.6666	15.6666	
14 Acrolein	56	2.599	2.599	(0.623)	190743	146.897	146.897	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	149472	21.4084	21.4084	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	40339	93.0709	93.0709	
17 Methylene Chloride	84	2.741	2.741	(0.657)	2319494	352.738	352.738(AR)	
18 Acetone	58	2.757	2.752	(0.661)	71862	98.6387	98.6387	
19 Methyl acetate	74	2.812	2.812	(0.674)	24724	16.2382	16.2382(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	200597	25.4417	25.4417(R)	
21 Hexane	57	2.861	2.866	(0.686)	256298	19.3631	19.3631	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	378468	18.8549	18.8549	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	73372	100.884	100.884	
	24 Acetonitrile	41	3.019	3.019	(0.724)	88143	108.195	108.195	
	25 Diisopropyl ether	45	3.068	3.063	(0.736)	377385	21.5664	21.5664	
	26 Chloroprene	53	3.156	3.156	(0.757)	201044	22.6615	22.6615	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	254717	23.7126	23.7126	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	292964	104.721	104.721	
	30 n-Propanol	41	3.265	3.265	(0.783)	72952	211.615	211.615	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	411041	22.1166	22.1166	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	26669	14.8163	14.8163	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	9717239	1215.48	1215.48(AR)	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	166254	19.4192	19.4192	
M	100 1,2-Dichloroethene, Total	61				9917836	1240.92	1240.92(R)	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	70967	20.5845	20.5845	
	35 Cyclohexane	84	3.587	3.587	(0.860)	230102	23.9876	23.9876	
	36 Chloroform	83	3.598	3.598	(0.863)	275671	23.7726	23.7726	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	103075	14.7640	14.7640(M)	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	133898	20.7993	20.7993	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	171042	20.3029	20.3029(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	200295	101.773	101.773	
$	41 Dibromofluoromethane	113	3.701	3.701	(0.887)	192221	29.1125	29.1125	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	201617	22.3376	22.3376(QM)	
	43 2-Butanone	72	3.761	3.761	(0.902)	100892	106.045	106.045(Q)	
	44 1,1-Dichloropropene	75	3.800	3.799	(0.911)	182654	21.3938	21.3938	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	122583	22.3267	22.3267	
	46 Heptane	71	3.887	3.887	(0.932)	100258	20.2123	20.2123	
	48 Propionitrile	54	3.941	3.941	(0.945)	114522	108.104	108.104	
	47 Benzene	78	3.941	3.941	(0.945)	565806	21.5611	21.5611	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	68549	21.5856	21.5856	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	384854	21.4520	21.4520	
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	234768	33.7299	33.7299	
	54 Isobutyl alcohol	42	3.990	3.990	(0.957)	40716	254.004	254.004(Q)	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	282002	34.1846	34.1846(R)	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	52121	93.4061	93.4061	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	836808	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	261886	15.1428	15.1428	
	57 Trichloroethene	95	4.269	4.269	(1.024)	8214051	1236.77	1236.77(AR)	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	351071	33.1283	33.1283(QR)	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	282673	18.2432	18.2432	
	60 Dibromomethane	93	4.525	4.525	(1.085)	88106	20.9848	20.9848	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	137117	21.7100	21.7100	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	165859	19.0864	19.0864(QM)	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	101776	20.3612	20.3612(QM)	
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	203065	18.5505	18.5505	
	67 Octane	85	5.000	4.994	(0.810)	76232	18.9721	18.9721	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	761200	29.4284	29.4284	
	69 Toluene	92	5.153	5.153	(0.835)	331781	20.2373	20.2373	
	70 Chloroacetonitrile	75	5.207	5.207	(0.844)	40231	98.4374	98.4374	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	156360	88.1915	88.1915	
	72 1,1-Dichloro-2-propanone	63	5.311	5.311	(0.860)	15639	91.2196	91.2196(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	687374	106.751	106.751	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	191175	18.8645	18.8645	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	395192	66.1984	66.1984(R)	
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	182167	18.6342	18.6342	

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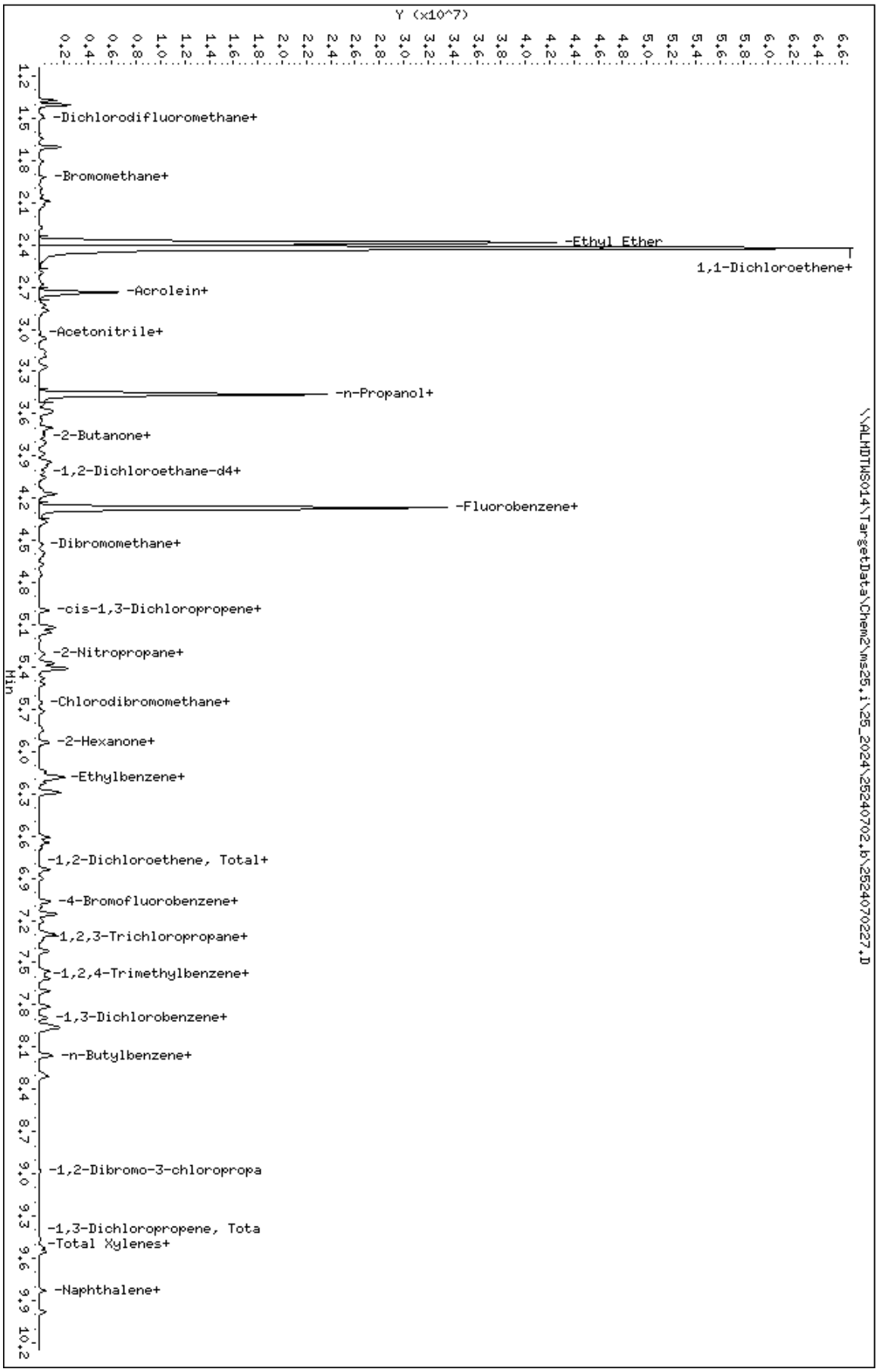
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	109925	21.8229	21.8229	
78 Chlorodibromomethane	129	5.649	5.649	(0.915)	127295	18.0645	18.0645	
79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	215498	21.6532	21.6532	
80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	127914	19.2230	19.2230	
81 2-Hexanone	43	5.933	5.933	(0.961)	456824	103.502	103.502	
82 1-Chlorohexane	91	6.140	6.140	(0.995)	175826	20.3861	20.3861	
* 83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	326706	30.0000		
85 Ethylbenzene	106	6.189	6.189	(1.003)	197200	20.1075	20.1075	
84 Chlorobenzene	112	6.184	6.184	(1.002)	351126	21.0165	21.0165	
86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	121173	19.4048	19.4048	
87 mp-Xylene	106	6.288	6.288	(1.019)	461577	39.3191	39.3191	
M 120 1,3-Dichloropropene, Total	75				394240	37.4150	37.4150	
88 o-Xylene	106	6.610	6.610	(1.071)	217855	19.5945	19.5945	
89 Styrene	104	6.648	6.648	(0.837)	338739	20.6032	20.6032	
90 Bromoform	173	6.681	6.680	(0.841)	82242	17.7938	17.7938	
91 Isopropylbenzene	105	6.839	6.839	(0.861)	560813	24.3345	24.3345	
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	232352	29.9596	29.9596	
M 121 TOTAL XYLENES	106				679432	58.9136	58.9136	
94 n-Propylbenzene	120	7.155	7.155	(0.900)	154226	22.7549	22.7549	
93 Bromobenzene	156	7.155	7.155	(0.900)	142075	21.4353	21.4353	
95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.907)	156541	23.7622	23.7622	
97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.919)	434438	23.0313	23.0313	
96 o-Chlorotoluene	91	7.292	7.292	(0.918)	417979	23.4398	23.4398	
98 1,2,3-Trichloropropane	110	7.324	7.324	(0.922)	47682	22.4411	22.4411	
99 trans-1,4-Dichloro-2-butene	53	7.341	7.346	(0.924)	41165	20.5350	20.5350	
101 p-Chlorotoluene	91	7.417	7.417	(0.933)	373503	23.1242	23.1242	
102 tert-Butylbenzene	134	7.559	7.559	(0.951)	105874	23.4681	23.4681	
103 Pentachloroethane	117	7.586	7.586	(0.955)	93302	20.7670	20.7670(M)	MP
104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.958)	426707	21.2760	21.2760	
105 sec-Butylbenzene	105	7.701	7.701	(0.969)	556105	23.8536	23.8536	
106 p-Isopropyltoluene	134	7.810	7.810	(0.983)	121633	22.7831	22.7831	
107 1,3-Dichlorobenzene	146	7.892	7.892	(0.993)	243986	21.8499	21.8499	
* 108 1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	280339	30.0000		
109 1,4-Dichlorobenzene	146	7.963	7.963	(1.002)	250076	21.4854	21.4854	
111 n-Butylbenzene	134	8.159	8.159	(1.027)	108645	21.7765	21.7765(Q)	
110 Benzyl Chloride	126	8.159	8.159	(1.027)	40635	14.8983	14.8983(Q)	
112 Hexachloroethane	117	8.290	8.290	(1.043)	74085	18.7638	18.7638	
113 1,2-Dichlorobenzene	146	8.312	8.312	(1.046)	238849	22.4551	22.4551	
114 1,2-Dibromo-3-chloropropane	75	8.978	8.983	(1.130)	23785	19.1365	19.1365	
115 Nitrobenzene	77	9.463	9.463	(1.191)	62527	164.833	164.833	
116 Hexachlorobutadiene	225	9.529	9.529	(1.199)	69677	19.9521	19.9521	
117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.203)	155308	22.0482	22.0482	
118 Naphthalene	128	9.829	9.829	(1.237)	375554	18.3424	18.3424	
119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.256)	141783	18.1017	18.1017	

QC Flag Legend

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



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Column phase: DB-VRX

Instrument: ms25.i
Operator: TMP
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Bromodichloromethane (75-27-4)

Reason Code:

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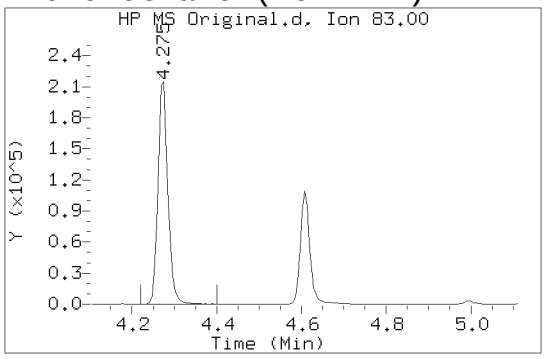

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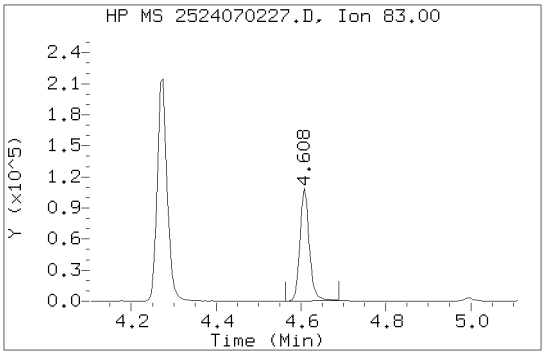

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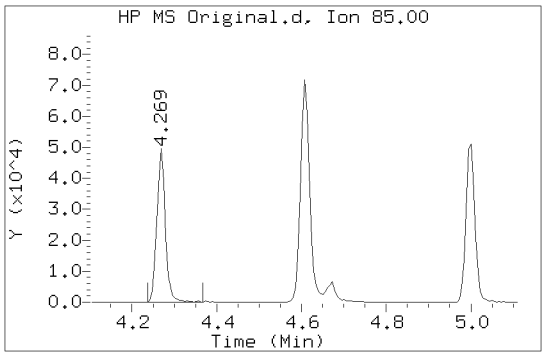

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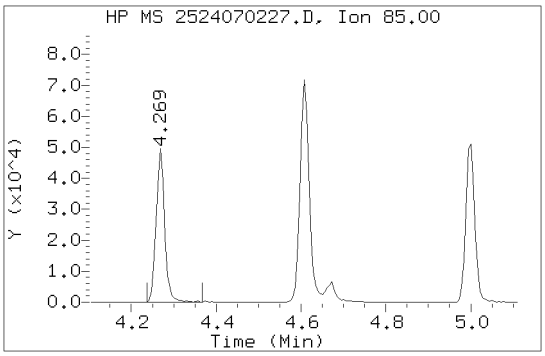

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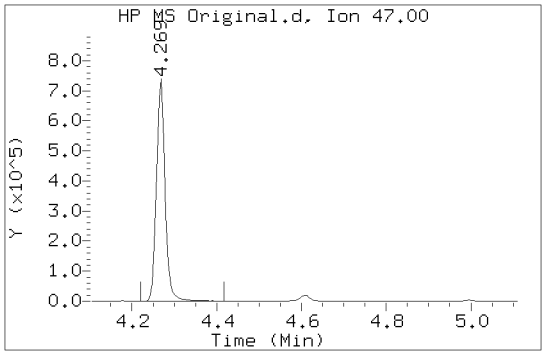

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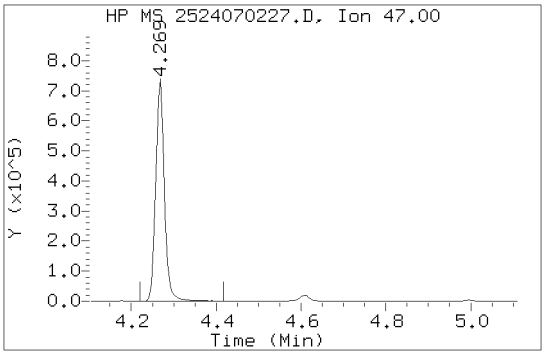

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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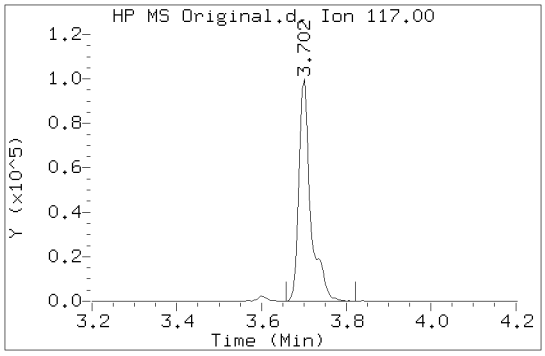

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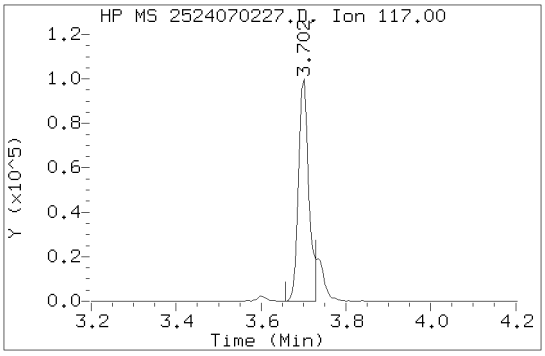

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LabSampID : 3847324

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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03-Jul-2024
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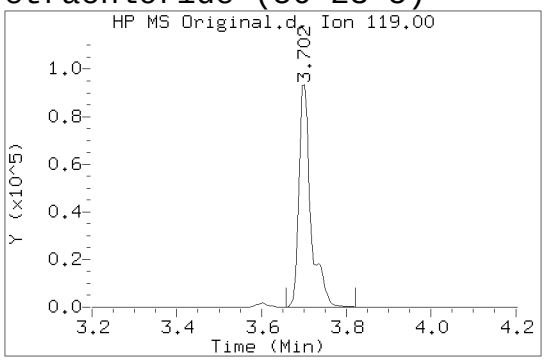

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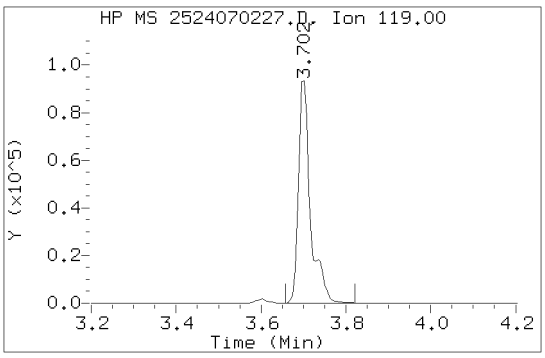

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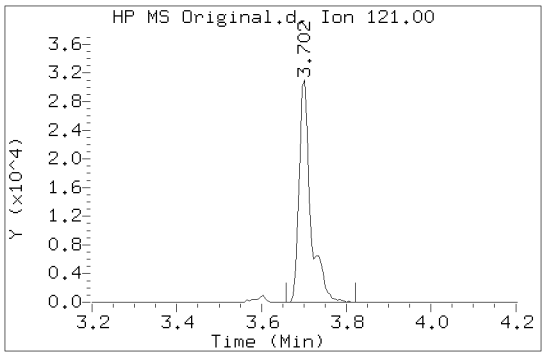

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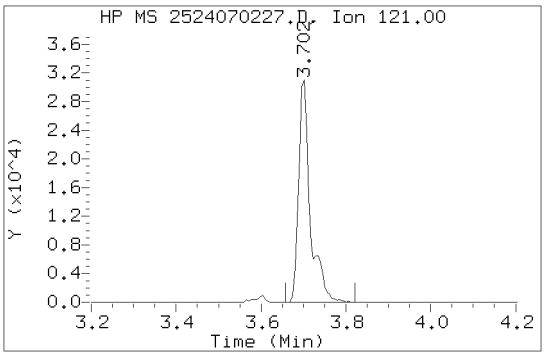

Chloroethane (75-00-3)

Reason Code:

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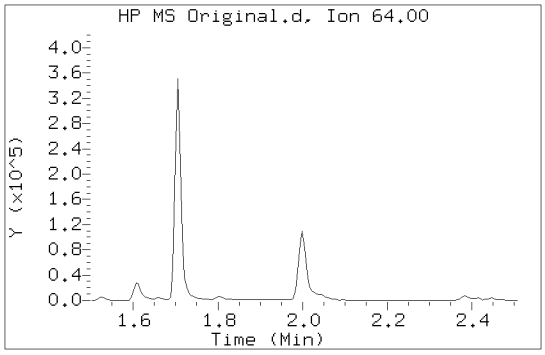

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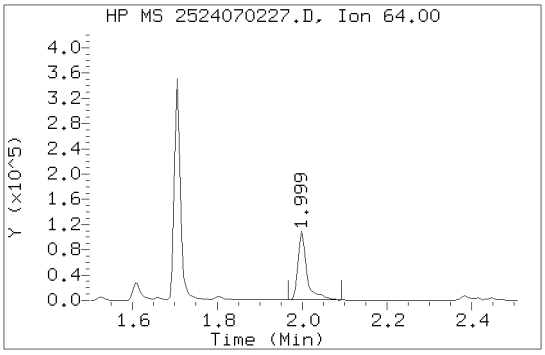

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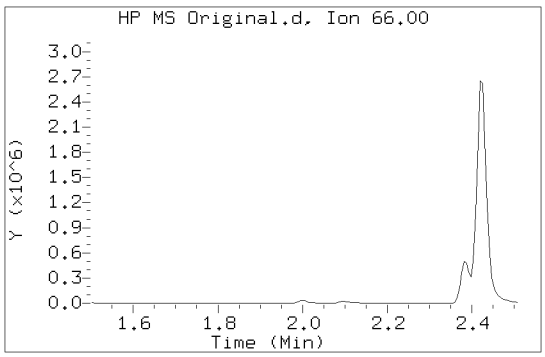
0
HEIGHT
0
03-Jul-2024
03:27



AFTER
MASS
66
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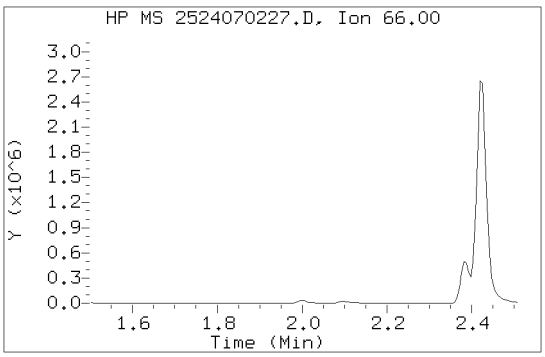
HEIGHT
0
09-Jul-2024
12:32



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Inj Date : 02-JUL-2024 18:59
InstruID : ms25.i
LabSampID : 3847324

Dichlorofluoromethane (75-43-4)

Reason Code:

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67
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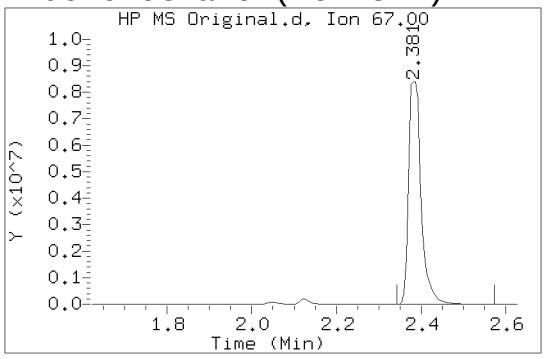
HEIGHT
8387092
03-Jul-2024
03:27



AFTER
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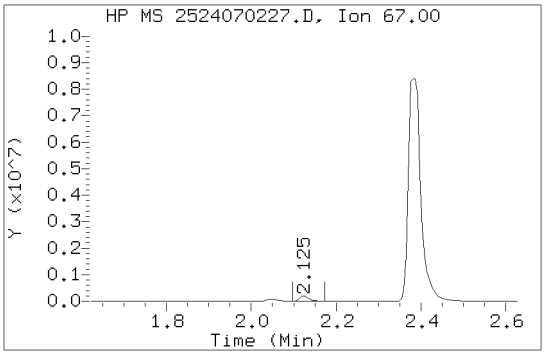
67
AREA
282667
HEIGHT
202149
09-Jul-2024
12:32



BEFORE
MASS
69
AREA
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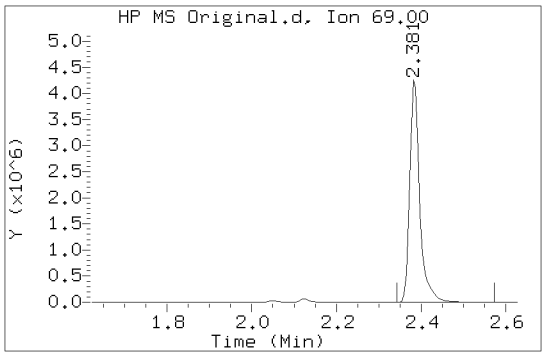
HEIGHT
4258323
03-Jul-2024
03:27



AFTER
MASS
69
AREA
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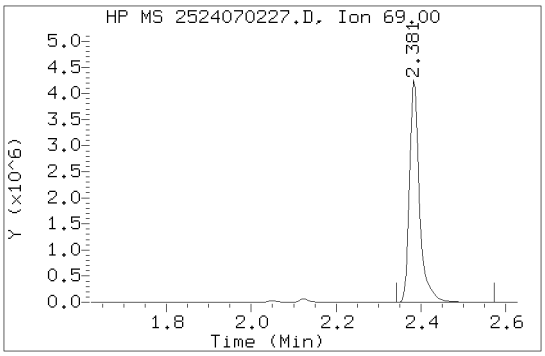
HEIGHT
4258323
09-Jul-2024
12:32



Ethyl acetate (141-78-6)

Reason Code:

BEFORE
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43
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HEIGHT
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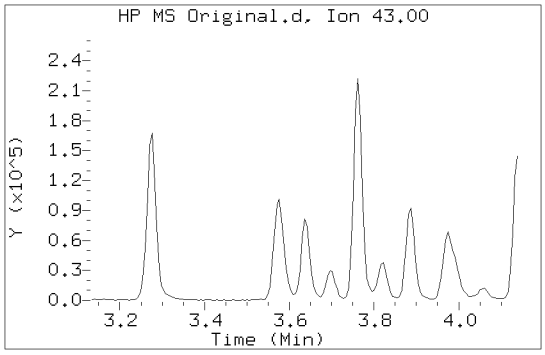
03-Jul-2024
03:27



AFTER
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43
AREA
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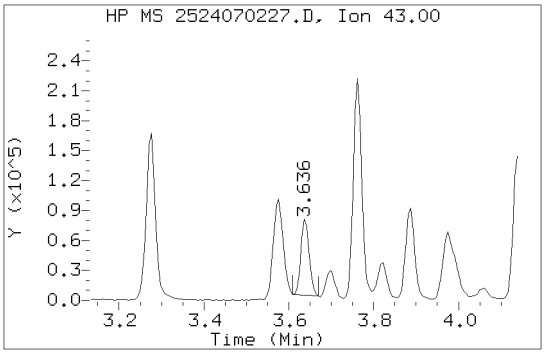
HEIGHT
76388
09-Jul-2024
12:32



BEFORE
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HEIGHT
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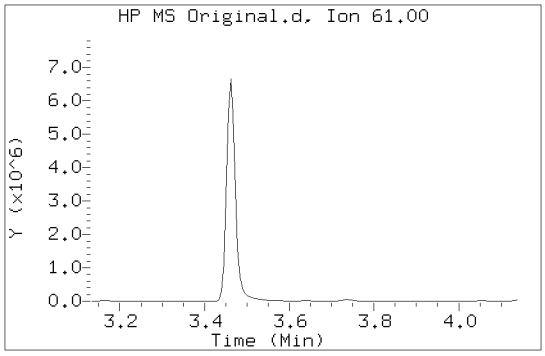
03-Jul-2024
03:27



AFTER
MASS
61
AREA
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HEIGHT
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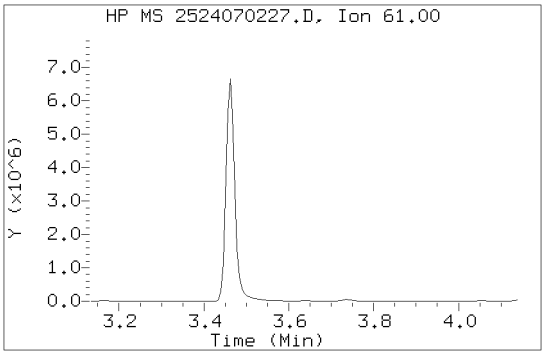
09-Jul-2024
12:32



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Inj Date : 02-JUL-2024 18:59
InstruID : ms25.i
LabSampID : 3847324

Ethyl acetate (141-78-6)

Reason Code:

BEFORE

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70
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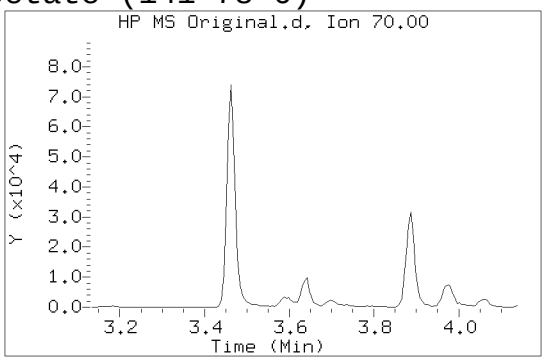
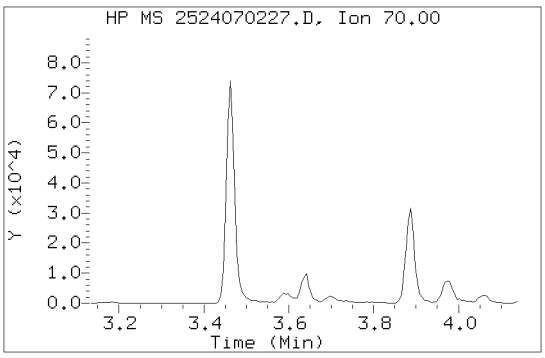
03-Jul-2024
03:27



AFTER

MASS
70
AREA
0
HEIGHT
0
09-Jul-2024
12:32

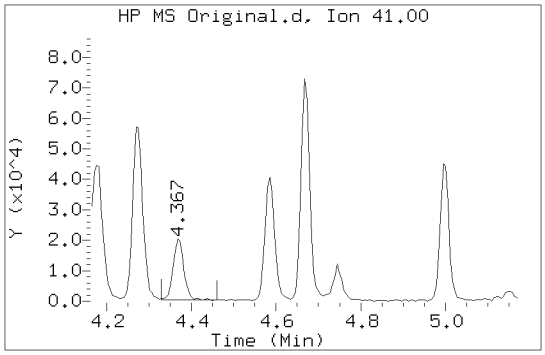


Methyl methacrylate (80-62-6)

Reason Code:

BEFORE

MASS
41
AREA
35826
HEIGHT
20170
03-Jul-2024
03:27



AFTER

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41
AREA
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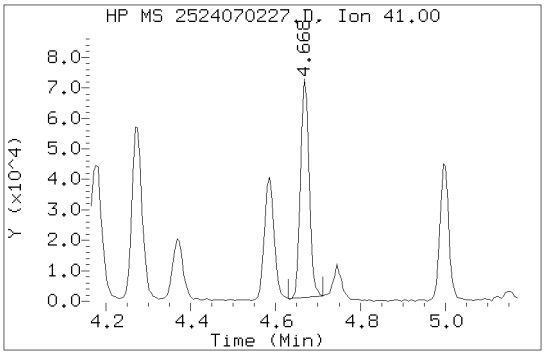
HEIGHT
71774
09-Jul-2024
12:32



BEFORE

MASS
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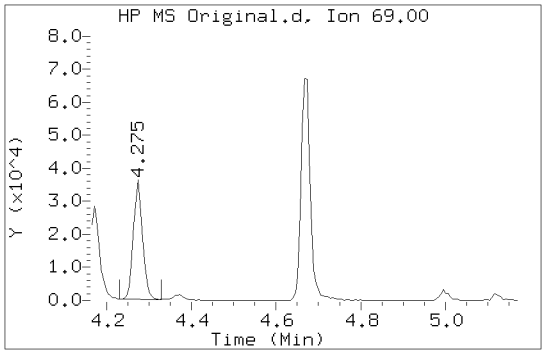
AREA
54653
HEIGHT
36187
03-Jul-2024
03:27



AFTER

MASS
69
AREA
54653
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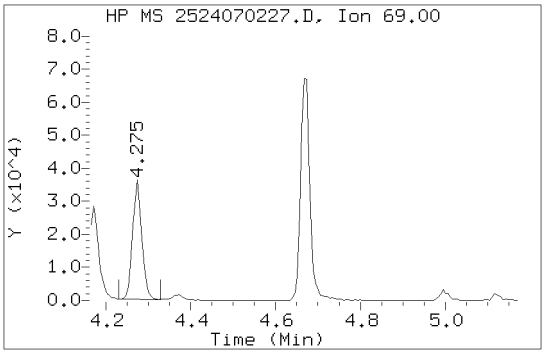
36187
09-Jul-2024
12:32



BEFORE

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99
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HEIGHT
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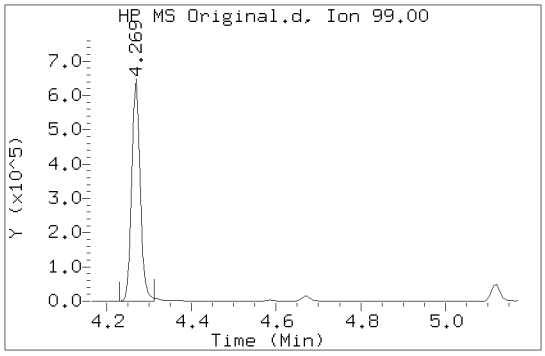
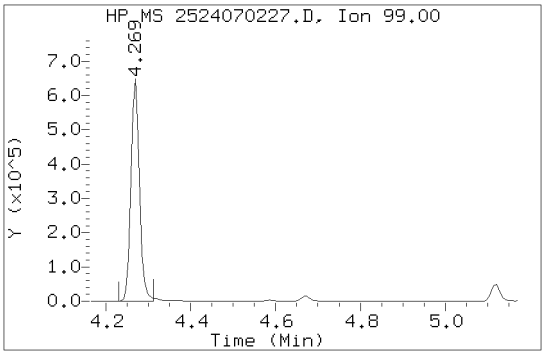
03-Jul-2024
03:27



AFTER

MASS
99
AREA
904386
HEIGHT
648032
09-Jul-2024
12:32



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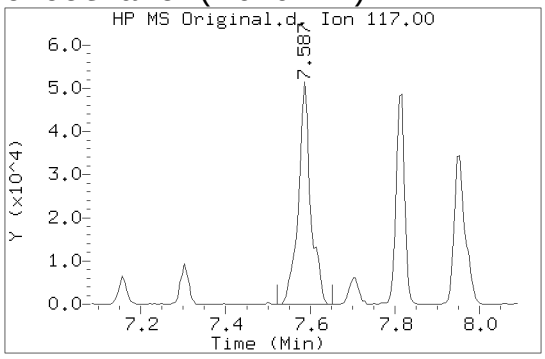
Inj Date : 02-JUL-2024 18:59
InstruID : ms25.i
LabSampID : 3847324

Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
103814
HEIGHT
51456
03-Jul-2024
03:27



AFTER
MASS
117
AREA
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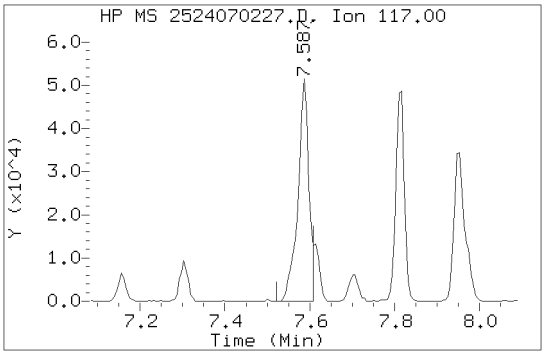
HEIGHT
51456
09-Jul-2024
12:32



BEFORE
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119
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HEIGHT
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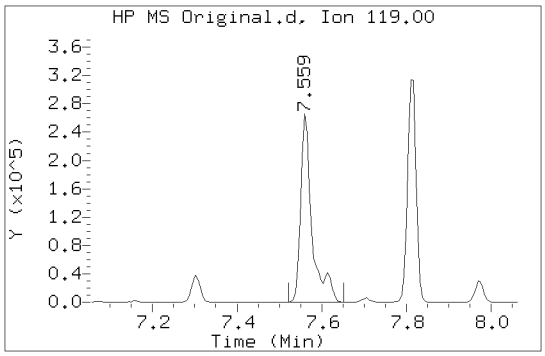
03-Jul-2024
03:27



AFTER
MASS
119
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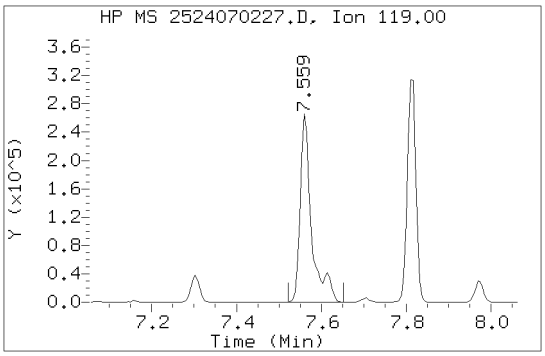
HEIGHT
265664
09-Jul-2024
12:32



BEFORE
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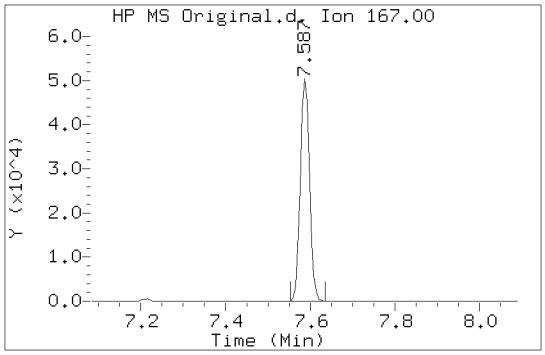
167
AREA
76689
HEIGHT
50392
03-Jul-2024
03:27



AFTER
MASS
167
AREA
76689
HEIGHT
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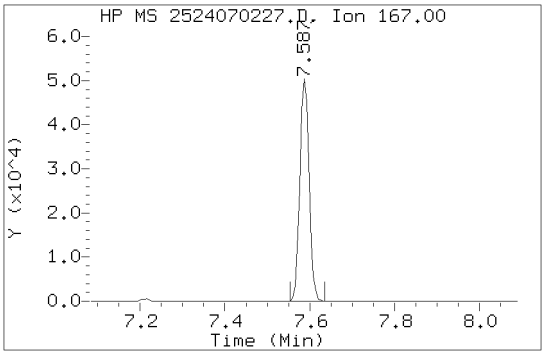
09-Jul-2024
12:32



1,1,1-Trichloroethane (71-55-6)

Reason Code:

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MASS
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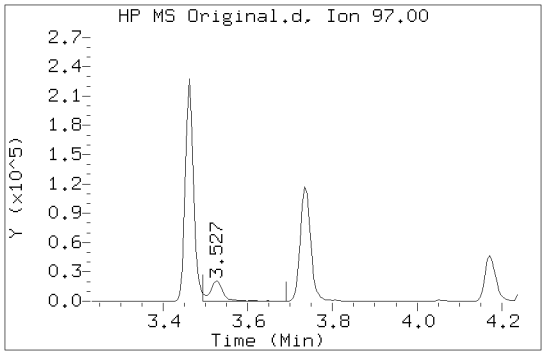
03-Jul-2024
03:27



AFTER
MASS
97
AREA
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HEIGHT
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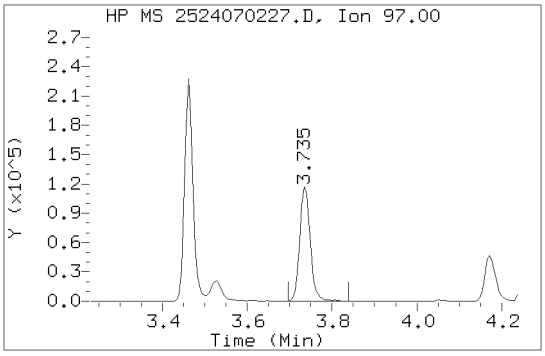
09-Jul-2024
12:32



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Inj Date : 02-JUL-2024 18:59
InstruID : ms25.i
LabSampID : 3847324

1,1,1-Trichloroethane (71-55-6)

Reason Code:

BEFORE
MASS
99
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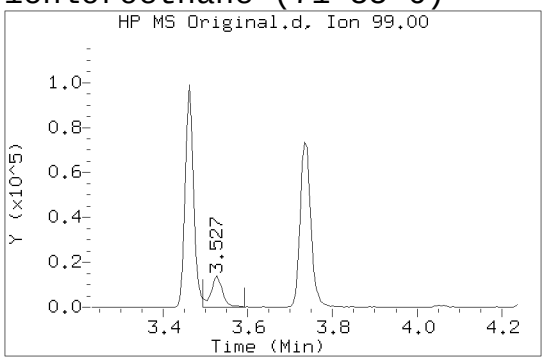
03-Jul-2024
03:27



AFTER
MASS
99
AREA
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HEIGHT
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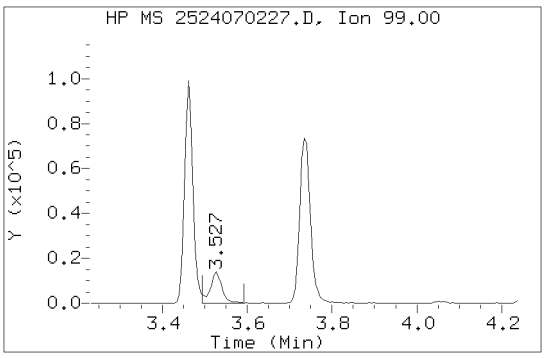
09-Jul-2024
12:32



BEFORE
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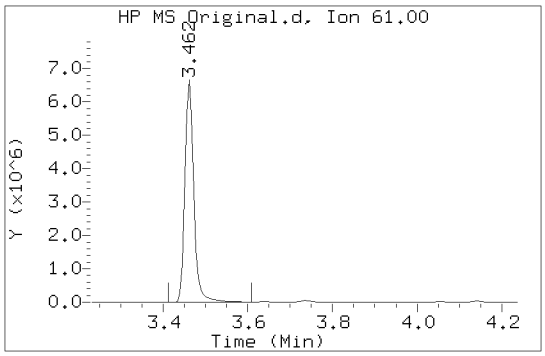
03-Jul-2024
03:27



AFTER
MASS
61
AREA
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HEIGHT
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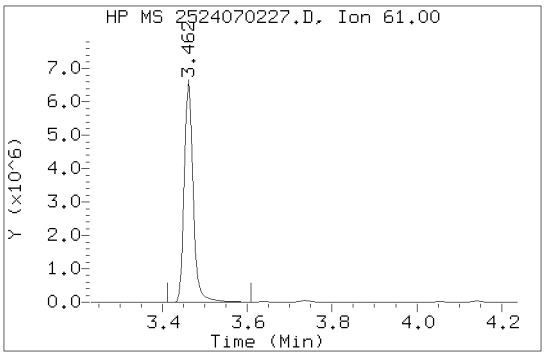
09-Jul-2024
12:32



Trichlorofluoromethane (75-69-4)

Reason Code:

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MASS
101
AREA
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HEIGHT
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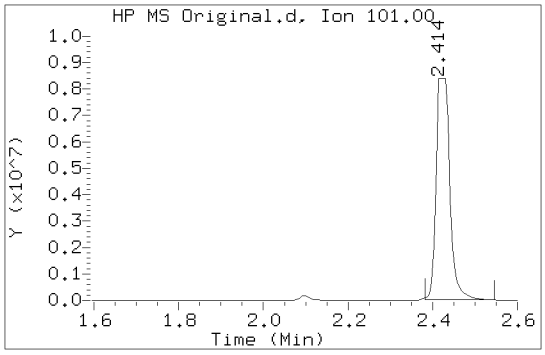
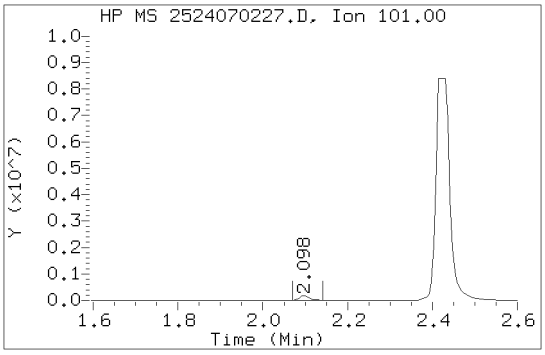
03-Jul-2024
03:27



AFTER
MASS
101
AREA
261695
HEIGHT
170518
09-Jul-2024
12:32



BEFORE
MASS
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AREA
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HEIGHT
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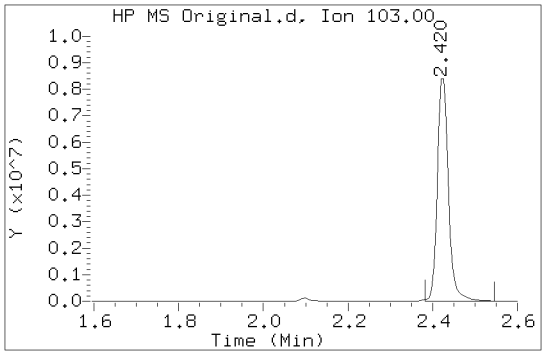
03-Jul-2024
03:27



AFTER
MASS
103
AREA
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HEIGHT
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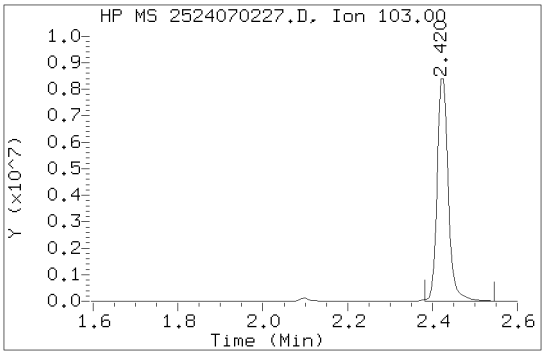
09-Jul-2024
12:32



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Inj Date : 02-JUL-2024 18:59
InstruID : ms25.i
LabSampID : 3847324

Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE

MASS
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AREA
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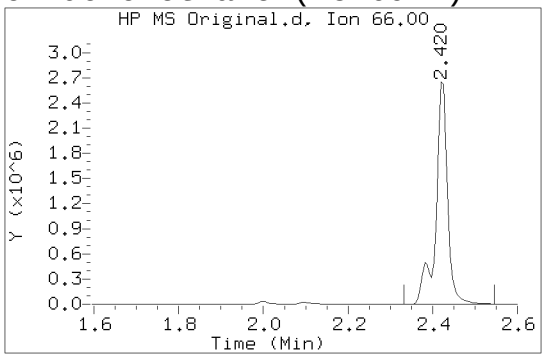
HEIGHT
2650112
03-Jul-2024
03:27



AFTER

MASS
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HEIGHT
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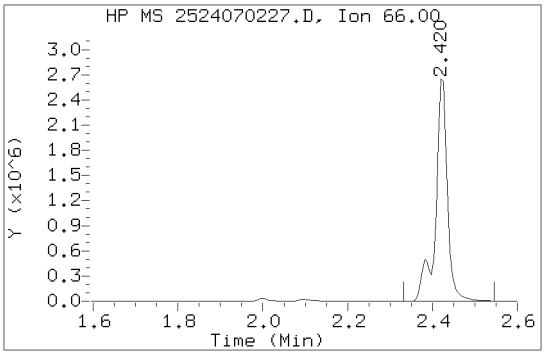
09-Jul-2024
12:32



UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 12:32
Client ID: 3366026004MSD
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240702.b/252407022
Inj Date: 02-JUL-2024 18:59
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524070229.D Page 1
Report Date: 09-Jul-2024 12:33

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\2524070229.D
Lab Smp Id: 1801
Inj Date : 02-JUL-2024 19:40
Operator : TMP Inst ID: ms25.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240702.b\25-8260b09D.m
Meth Date : 03-Jul-2024 04:21 chs Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	473704	46.7553	46.7553	
2	Chloromethane	50	1.644	1.644	(0.394)	464622	52.5177	52.5177	
3	Vinyl Chloride	62	1.704	1.704	(0.409)	558996	48.8061	48.8061	
4	Bromomethane	94	1.922	1.922	(0.461)	323239	59.0405	59.0405	
5	Chloroethane	64	2.004	2.004	(0.481)	378296	48.8909	48.8909	
6	Pentane	41	2.091	2.092	(0.502)	249888	34.6894	34.6894	
7	Trichlorofluoromethane	101	2.097	2.097	(0.503)	736425	46.9413	46.9413	
8	Dichlorofluoromethane	67	2.124	2.124	(0.509)	695255	47.8951	47.8951	
9	Ethyl Ether	74	2.277	2.277	(0.546)	207091	46.9137	46.9137	
10	1,1-Dichloroethene	61	2.413	2.414	(0.579)	410330	46.5829	46.5829	
12	Carbon Disulfide	76	2.446	2.446	(0.587)	828575	43.6051	43.6051	
11	Freon 113	101	2.424	2.424	(0.581)	292302	47.1790	47.1790	
13	Iodomethane	127	2.506	2.506	(0.601)	138976	40.7921	40.7921	
14	Acrolein	56	2.599	2.599	(0.623)	306875	215.984	215.984	
16	3-Chloro-1-propene	41	2.681	2.681	(0.643)	350057	45.6217	45.6217	
15	Isopropyl Alcohol	45	2.653	2.654	(0.636)	106112	228.204	228.204	
17	Methylene Chloride	84	2.741	2.741	(0.657)	331809	46.1151	46.1151	
18	Acetone	58	2.757	2.752	(0.661)	172697	216.635	216.635	
19	Methyl acetate	74	2.812	2.812	(0.674)	71715	43.7425	43.7425	
20	trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	411395	47.6844	47.6844	
21	Hexane	57	2.866	2.866	(0.687)	585504	40.7447	40.7447	
22	Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	959676	43.3890	43.3890	

Data File: 2524070229.D
Report Date: 09-Jul-2024 12:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	2.893	2.894	(0.694)	187976	236.206	236.206	
	24 Acetonitrile	41	3.019	3.019	(0.724)	224088	251.381	251.381	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	959237	50.0975	50.0975	
	26 Chloroprene	53	3.155	3.156	(0.757)	480202	49.4672	49.4672	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	576876	49.0795	49.0795	
	28 Acrylonitrile	53	3.193	3.188	(0.766)	757119	247.332	247.332	
	30 n-Propanol	41	3.264	3.265	(0.783)	182838	484.698	484.698(Q)	
	29 Ethyl tert-butyl ether	59	3.264	3.265	(0.783)	1010250	49.6773	49.6773	
	31 Vinyl acetate	86	3.275	3.276	(0.785)	79323	39.6173	39.6173(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	438263	50.0998	50.0998	
	33 2,2-Dichloropropane	77	3.526	3.527	(0.846)	373919	39.9146	39.9146	
M	100 1,2-Dichloroethene, Total	61				849658	97.7842	97.7842	
	34 Bromochloromethane	128	3.575	3.576	(0.857)	181080	48.0011	48.0011	
	35 Cyclohexane	84	3.586	3.587	(0.860)	476187	45.3670	45.3670	
	36 Chloroform	83	3.603	3.598	(0.864)	614442	48.4242	48.4242	
	37 Ethyl acetate	43	3.635	3.636	(0.872)	343561	45.1482	45.1482	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	340324	48.3129	48.3129	
	39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	394212	42.3040	42.3040(M)	MP
	40 Tetrahydrofuran	42	3.695	3.696	(0.886)	522662	242.706	242.706	
$	41 Dibromofluoromethane	113	3.706	3.701	(0.889)	212008	29.3446	29.3446	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	476010	48.1971	48.1971	
	43 2-Butanone	72	3.761	3.761	(0.902)	256293	246.188	246.188(Q)	
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	442140	47.3276	47.3276	
	45 1-Chlorobutane	41	3.821	3.821	(0.916)	282628	47.0442	47.0442	
	46 Heptane	71	3.886	3.887	(0.932)	213110	39.2642	39.2642	
	48 Propionitrile	54	3.941	3.941	(0.945)	281861	243.155	243.155	
	47 Benzene	78	3.941	3.941	(0.945)	1324589	46.1298	46.1298	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	165226	47.5487	47.5487	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	965366	49.1767	49.1767	
$	51 1,2-Dichloroethane-d4	65	4.017	4.012	(0.963)	255940	33.6055	33.6055	
	54 Isobutyl alcohol	42	3.990	3.990	(0.957)	107493	607.170	607.170(Q)	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	422614	46.8187	46.8187	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	141305	231.428	231.428	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	915650	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	790069	44.4013	44.4013	
	57 Trichloroethene	95	4.268	4.269	(1.024)	340735	46.8863	46.8863	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	517147	42.4587	42.4587	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	761822	44.5500	44.5500	
	60 Dibromomethane	93	4.525	4.525	(1.085)	220345	47.9621	47.9621	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	341831	49.4625	49.4625	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	415115	43.2322	43.2322	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	276397	50.5344	50.5344	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	216968	42.9508	42.9508	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	510310	40.2265	40.2265	
	67 Octane	85	5.000	4.994	(0.810)	174029	37.6832	37.6832	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	820338	27.5936	27.5936	
	69 Toluene	92	5.152	5.153	(0.835)	794240	42.1504	42.1504	
	70 Chloroacetonitrile	75	5.212	5.207	(0.844)	109140	232.344	232.344	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	424920	205.973	205.973	
	72 1,1-Dichloro-2-propanone	63	5.316	5.311	(0.861)	41146	206.314	206.314(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	1723903	231.743	231.743	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	479206	40.7915	40.7915	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	305969	44.5928	44.5928	
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	486418	42.8733	42.8733	

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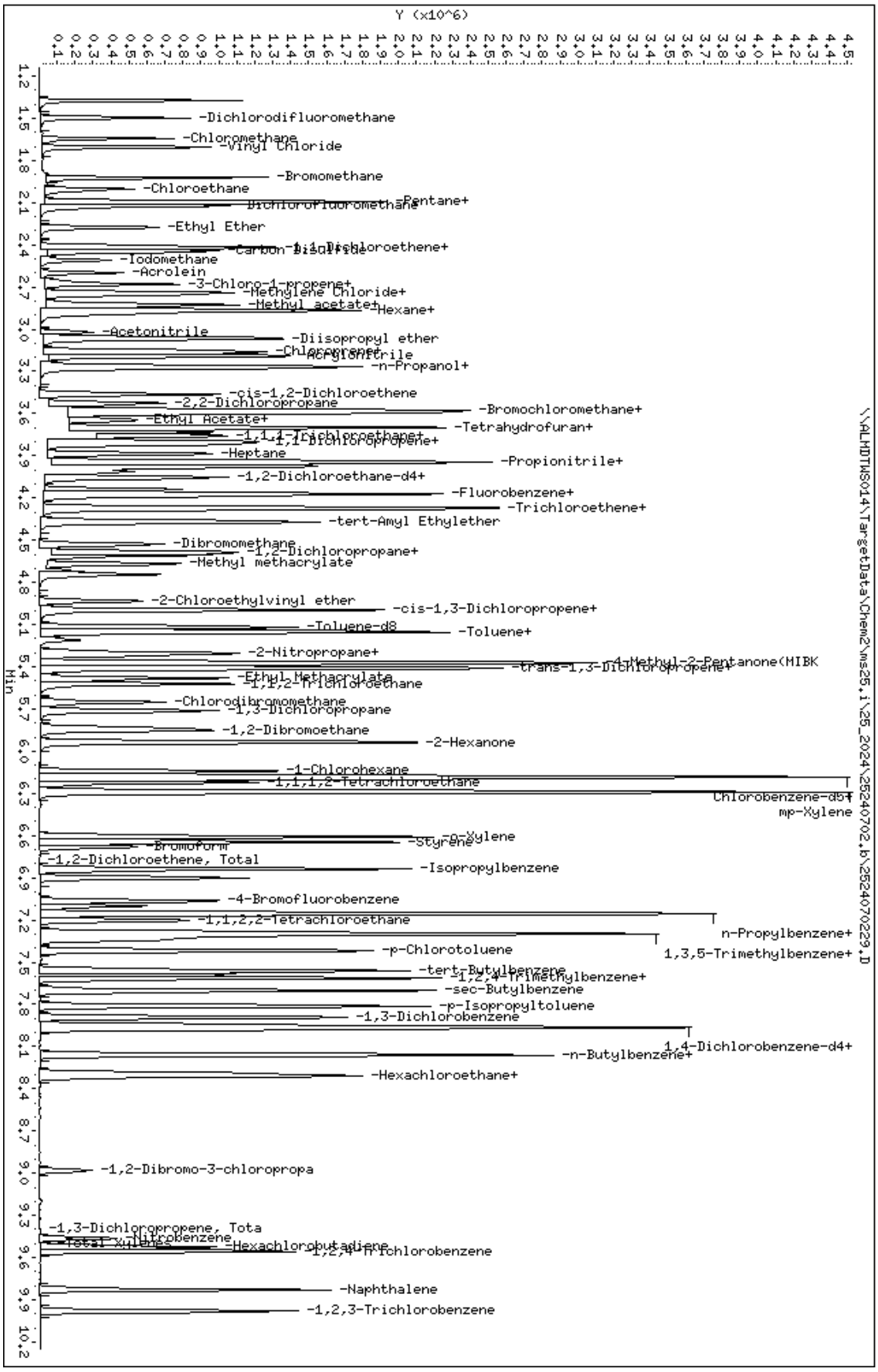
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
77	1,1,2-Trichloroethane	83	5.523	5.524	(0.895)	265507	45.8607	45.8607	
78	Chlorodibromomethane	129	5.649	5.649	(0.915)	330054	40.2891	40.2891	
79	1,3-Dichloropropane	76	5.714	5.715	(0.926)	539421	47.1579	47.1579	
80	1,2-Dibromoethane	107	5.829	5.829	(0.944)	320469	41.6259	41.6259	
81	2-Hexanone	43	5.933	5.933	(0.961)	1159332	227.198	227.198	
82	1-Chlorohexane	91	6.145	6.140	(0.996)	415640	41.9291	41.9291	
* 83	Chlorobenzene-d5	82	6.173	6.173	(1.000)	375499	30.0000		
85	Ethylbenzene	106	6.189	6.189	(1.003)	464297	41.3310	41.3310	
84	Chlorobenzene	112	6.184	6.184	(1.002)	869873	45.3004	45.3004	
86	1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	297996	41.1580	41.1580	
87	mp-Xylene	106	6.287	6.288	(1.019)	1116648	83.6361	83.6361	
M 120	1,3-Dichloropropene, Total	75				989516	81.0180	81.0180	
88	o-Xylene	106	6.609	6.610	(1.071)	537083	42.0298	42.0298	
89	Styrene	104	6.647	6.648	(0.837)	863631	45.4289	45.4289	
90	Bromoform	173	6.680	6.680	(0.841)	214734	40.0377	40.0377	
91	Isopropylbenzene	105	6.838	6.839	(0.861)	1226371	46.2605	46.2605	
$ 92	4-Bromofluorobenzene	174	7.068	7.068	(0.889)	248626	27.9441	27.9441	
M 121	TOTAL XYLENES	106				1653731	125.666	125.666	
94	n-Propylbenzene	120	7.155	7.155	(0.900)	378034	48.6187	48.6187	
93	Bromobenzene	156	7.155	7.155	(0.900)	353867	46.5377	46.5377	
95	1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.907)	383378	50.7270	50.7270	
97	1,3,5-Trimethylbenzene	105	7.302	7.303	(0.919)	1066095	49.2653	49.2653	
96	o-Chlorotoluene	91	7.291	7.292	(0.918)	1013442	49.5396	49.5396	
98	1,2,3-Trichloropropane	110	7.324	7.324	(0.922)	117922	48.3770	48.3770	
99	trans-1,4-Dichloro-2-butene	53	7.340	7.346	(0.924)	104554	45.1111	45.1111	
101	p-Chlorotoluene	91	7.417	7.417	(0.933)	926727	50.0126	50.0126	
102	tert-Butylbenzene	134	7.559	7.559	(0.951)	255511	49.3687	49.3687	
103	Pentachloroethane	117	7.586	7.586	(0.955)	213091	41.0537	41.0537(QM)	MP
104	1,2,4-Trimethylbenzene	105	7.613	7.614	(0.958)	1067654	46.5829	46.5829	
105	sec-Butylbenzene	105	7.700	7.701	(0.969)	1387405	51.8747	51.8747	
106	p-Isopropyltoluene	134	7.810	7.810	(0.983)	303395	49.5363	49.5363	
107	1,3-Dichlorobenzene	146	7.891	7.892	(0.993)	620104	48.4063	48.4063	
* 108	1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	321610	30.0000		
109	1,4-Dichlorobenzene	146	7.962	7.963	(1.002)	635670	47.6054	47.6054	
111	n-Butylbenzene	134	8.159	8.159	(1.027)	271284	47.3976	47.3976(Q)	
110	Benzyl Chloride	126	8.159	8.159	(1.027)	99999	31.4208	31.4208(Q)	
112	Hexachloroethane	117	8.290	8.290	(1.043)	196509	42.8733	42.8733	
113	1,2-Dichlorobenzene	146	8.312	8.312	(1.046)	592487	48.5539	48.5539	
114	1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	59660	41.3492	41.3492	
115	Nitrobenzene	77	9.463	9.463	(1.191)	184647	399.310	399.310	
116	Hexachlorobutadiene	225	9.528	9.529	(1.199)	163442	40.5332	40.5332	
117	1,2,4-Trichlorobenzene	180	9.556	9.556	(1.203)	380768	47.1188	47.1188	
118	Naphthalene	128	9.828	9.829	(1.237)	991288	41.7858	41.7858	
119	1,2,3-Trichlorobenzene	180	9.981	9.982	(1.256)	373471	41.1843	41.1843	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Bromoform
-Styrene
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
n-Propylbenzene+
-p-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene
1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
Nitrobenzene
Total Xylenes
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1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Operator: THP
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Page 1

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LabSampID : 1801

Carbon Tetrachloride (56-23-5)

Reason Code: MP

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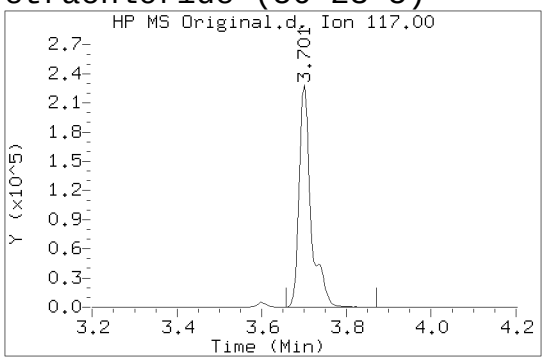

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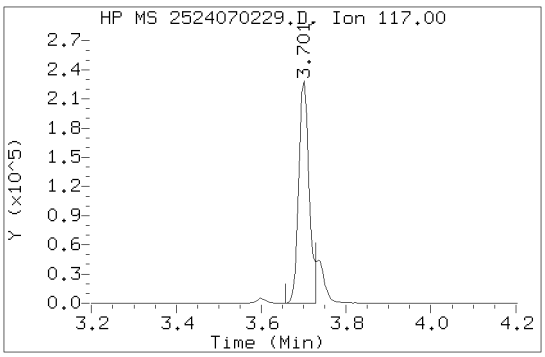

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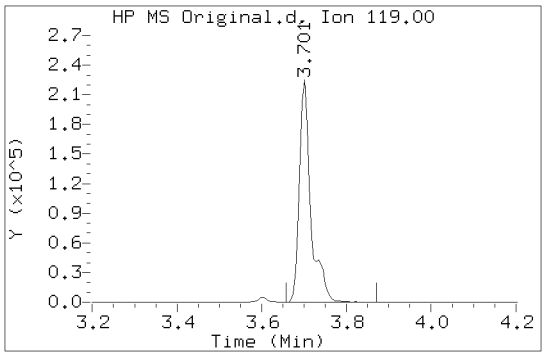

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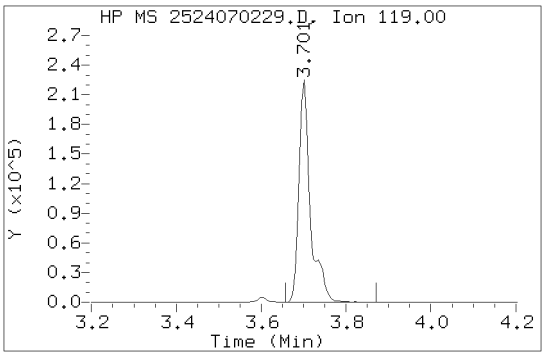

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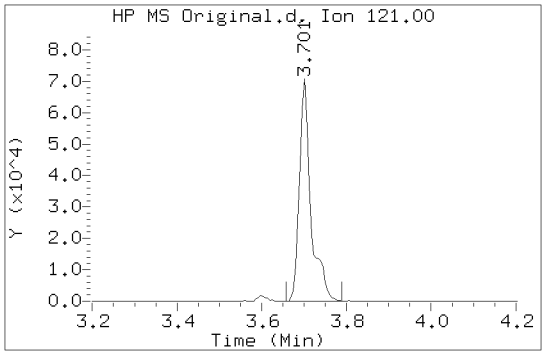

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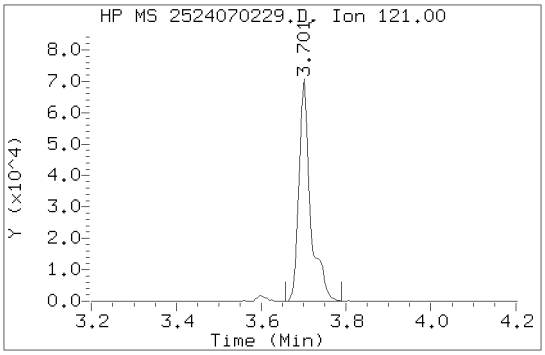

Pentachloroethane (76-01-7)

Reason Code: MP

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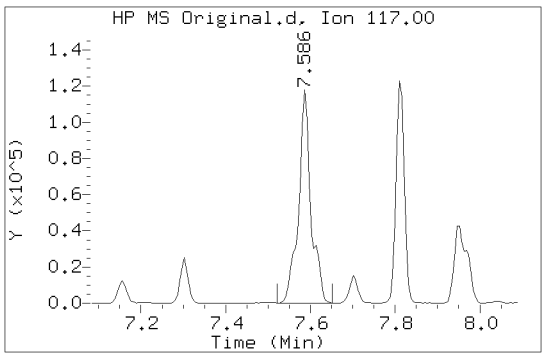

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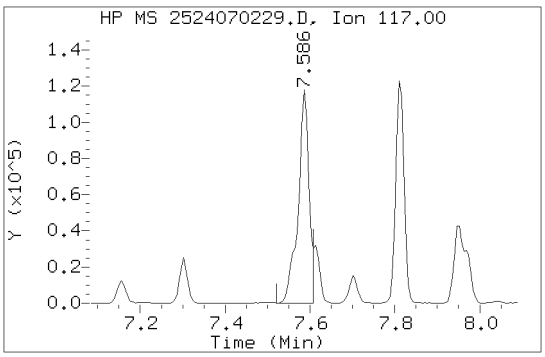

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LabSampID : 1801

Pentachloroethane (76-01-7)

Reason Code: MP

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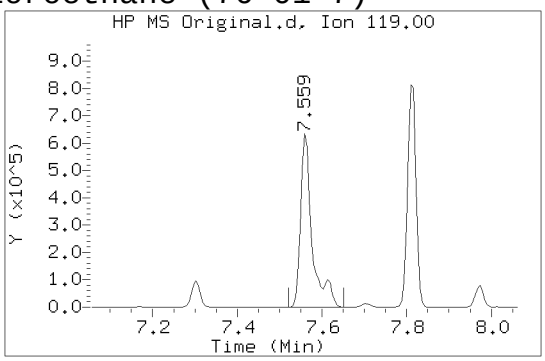

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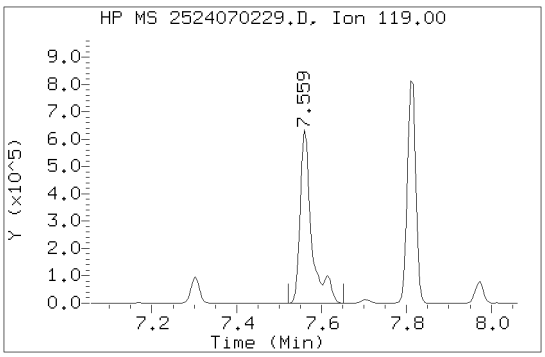

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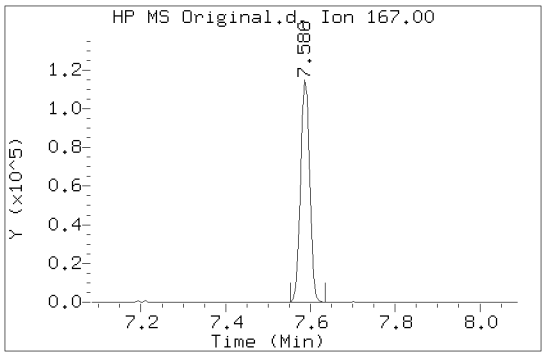

AFTER

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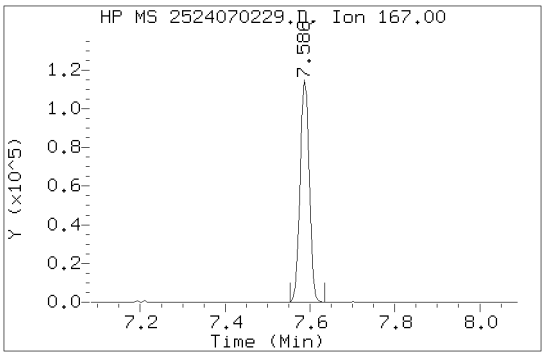

UNASSIGNED PEAK REPORT

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Inj Date: 02-JUL-2024 19:40
Operator: TMP

There were no Unassigned peaks in this sample!

HS24061330 E2400734 Perch Level IV Report

ALS WO# HS24061330

July 11, 2024 Service Request No:E2400734

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24061330

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 21, 2024
For your reference, these analyses have been assigned our service request number **E2400734.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400734
Project:	HS24061330	**Date Received:**	06/21/24
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

Twenty-three samples were received for analysis at ALS Environmental in Houston on 06/21/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400374/ EQ2400375: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400734
Project: HS24061330

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400734-001	ICT2_062024	6/20/2024	0640
E2400734-002	ICT4_062024	6/20/2024	0654
E2400734-003	ICT7_062024	6/20/2024	0703
E2400734-004	ICT8_062024	6/20/2024	0712
E2400734-005	ICT11_062024	6/20/2024	0728
E2400734-006	ICT12A_062024	6/20/2024	0738
E2400734-007	ICT12B_062024	6/20/2024	0745
E2400734-008	ICT12C_062024	6/20/2024	0752
E2400734-009	ICT12D_062024	6/20/2024	0800
E2400734-010	ICT12D_062024_a	6/20/2024	0800
E2400734-011	ICT12E_062024	6/20/2024	0810
E2400734-012	ICT13A_062024	6/20/2024	0818
E2400734-013	ICT13B_062024	6/20/2024	0825
E2400734-014	ICT13C_062024	6/20/2024	0834
E2400734-015	ICT13D_062024	6/20/2024	0843
E2400734-016	ICT13D_062024_a	6/20/2024	0843
E2400734-017	ICT13E_062024	6/20/2024	0855
E2400734-018	ICT13F_062024	6/20/2024	0902
E2400734-019	ICT14A_062024	6/20/2024	0914
E2400734-020	ICT14B_062024	6/20/2024	0922
E2400734-021	ICT14C_062024	6/20/2024	0927
E2400734-022	ICT14D_062024	6/20/2024	0935
E2400734-023	ICT14E_062024	6/20/2024	0942

Service Request Summary

Folder #: **E2400734**
Client Name: ALS Environmental - US
Project Name: HS24061330
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/21/24
Internal Due Date: 7/3/2024
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

25 125 mL-Plastic Bottle HDPE NM CLEAR Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400734-001	ICT2_062024	Ground Water	06/20/24 0640	**IV**
E2400734-002	ICT4_062024	Ground Water	06/20/24 0654	**IV**
E2400734-003	ICT7_062024	Ground Water	06/20/24 0703	**IV**
E2400734-004	ICT8_062024	Ground Water	06/20/24 0712	**IV**
E2400734-005	ICT11_062024	Ground Water	06/20/24 0728	**IV**
E2400734-006	ICT12A_062024	Ground Water	06/20/24 0738	**IV**
E2400734-007	ICT12B_062024	Ground Water	06/20/24 0745	**IV**
E2400734-008	ICT12C_062024	Ground Water	06/20/24 0752	**IV**
E2400734-009	ICT12D_062024	Ground Water	06/20/24 0800	**IV**
E2400734-010	ICT12D_062024_a	Ground Water	06/20/24 0800	**IV**
E2400734-011	ICT12E_062024	Ground Water	06/20/24 0810	**IV**
E2400734-012	ICT13A_062024	Ground Water	06/20/24 0818	**IV**
E2400734-013	ICT13B_062024	Ground Water	06/20/24 0825	**IV**
E2400734-014	ICT13C_062024	Ground Water	06/20/24 0834	**IV**
E2400734-015	ICT13D_062024	Ground Water	06/20/24 0843	**IV**
E2400734-016	ICT13D_062024_a	Ground Water	06/20/24 0843	**IV**

Service Request Summary

Folder #: **E2400734**
Client Name: ALS Environmental - US
Project Name: HS24061330
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/21/24
Internal Due Date: 7/3/2024
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

25 125 mL-Plastic Bottle HDPE NM CLEAR Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400734-017	ICT13E_062024	Ground Water	06/20/24 0855	**IV**
E2400734-018	ICT13F_062024	Ground Water	06/20/24 0902	**IV**
E2400734-019	ICT14A_062024	Ground Water	06/20/24 0914	**IV**
E2400734-020	ICT14B_062024	Ground Water	06/20/24 0922	**IV**
E2400734-021	ICT14C_062024	Ground Water	06/20/24 0927	**IV**
E2400734-022	ICT14D_062024	Ground Water	06/20/24 0935	**IV**
E2400734-023	ICT14E_062024	Ground Water	06/20/24 0942	**IV**

Service Request Summary

Folder #: **E2400734**
Client Name: ALS Environmental - US
Project Name: HS24061330
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
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E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/21/24
Internal Due Date: 7/3/2024
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

25 125 mL-Plastic Bottle HDPE NM CLEAR Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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E24100734

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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26115**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	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:	HS24061330
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061330-01**	**ICT2_062024**	**Groundwater**	**20 Jun 2024 06:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
2.	**HS24061330-02**	**ICT4_062024**	**Groundwater**	**20 Jun 2024 06:54**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
3.	**HS24061330-03**	**ICT7_062024**	**Groundwater**	**20 Jun 2024 07:03**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
4.	**HS24061330-04**	**ICT8_062024**	**Groundwater**	**20 Jun 2024 07:12**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
5.	**HS24061330-05**	**ICT11_062024**	**Groundwater**	**20 Jun 2024 07:28**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
6.	**HS24061330-06**	**ICT12A_062024**	**Groundwater**	**20 Jun 2024 07:38**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
7.	**HS24061330-07**	**ICT12B_062024**	**Groundwater**	**20 Jun 2024 07:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
8.	**HS24061330-08**	**ICT12C_062024**	**Groundwater**	**20 Jun 2024 07:52**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26115**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
9.	**HS24061330-09**	**ICT12D_062024**	**Groundwater**	**20 Jun 2024 08:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
10.	**HS24061330-10**	**ICT12D_062024_a**	**Groundwater**	**20 Jun 2024 08:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
11.	**HS24061330-11**	**ICT12E_062024**	**Groundwater**	**20 Jun 2024 08:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
12.	**HS24061330-12**	**ICT13A_062024**	**Groundwater**	**20 Jun 2024 08:18**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
13.	**HS24061330-13**	**ICT13B_062024**	**Groundwater**	**20 Jun 2024 08:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
14.	**HS24061330-14**	**ICT13C_062024**	**Groundwater**	**20 Jun 2024 08:34**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
15.	**HS24061330-15**	**ICT13D_062024**	**Groundwater**	**20 Jun 2024 08:43**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
16.	**HS24061330-16**	**ICT13D_062024_a**	**Groundwater**	**20 Jun 2024 08:43**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
17.	**HS24061330-17**	**ICT13E_062024**	**Groundwater**	**20 Jun 2024 08:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
18.	**HS24061330-18**	**ICT13F_062024**	**Groundwater**	**20 Jun 2024 09:02**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
19.	**HS24061330-19**	**ICT14A_062024**	**Groundwater**	**20 Jun 2024 09:14**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
20.	**HS24061330-20**	**ICT14B_062024**	**Groundwater**	**20 Jun 2024 09:22**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
21.	**HS24061330-21**	**ICT14C_062024**	**Groundwater**	**20 Jun 2024 09:27**
	6850 DoD Level II and Level IV reports in separate pdf; DoD			08 Jul 2024

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26115**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	Excel EDD			
22.	**HS24061330-22**	**ICT14D_062024**	**Groundwater**	**20 Jun 2024 09:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024
23.	**HS24061330-23**	**ICT14E_062024**	**Groundwater**	**20 Jun 2024 09:42**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			08 Jul 2024

Comments: Please analyze for the analysis listed above. SAMPLE HS24061330-04 (ICT8_062024 ***Designated MS/MSD***
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

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

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

Sample Receipt Checklist

Work Order ID: HS24061330 **Date/Time received:** 21 Jun 2024 09:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Belinda Gomez

Completed/By: 21 Jun 2024 12:21 (Date/Time) Rajen Giga (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: GW **Carrier name:** FedEx Priority Overnight

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☑ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	3 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s): CLIENT	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 2.1uc/2.2c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 06/21/2024 12:30

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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

Preparation Information Benchsheet

Prep Run#: 441033 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400734-001	ICT2_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2400734-002	ICT4_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2400734-003	ICT7_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2400734-004	ICT8_062024	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2400734-005	ICT11_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
6	E2400734-006	ICT12A_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
7	E2400734-007	ICT12B_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
8	E2400734-008	ICT12C_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
9	E2400734-009	ICT12D_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
10	E2400734-010	ICT12D_062024_a	.02	6850/ClO4 DOD			Ground Water	10mL	
11	E2400734-011	ICT12E_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
12	E2400734-012	ICT13A_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
13	E2400734-013	ICT13B_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
14	E2400734-014	ICT13C_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
15	E2400734-015	ICT13D_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
16	E2400734-016	ICT13D_062024_a	.02	6850/ClO4 DOD			Ground Water	10mL	
17	E2400734-017	ICT13E_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
18	E2400734-018	ICT13F_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
19	E2400734-019	ICT14A_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
20	E2400734-020	ICT14B_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
21	EQ2400374-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400374-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400374-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2400374-04	ICS		6850/ClO4 DOD			Liquid	10mL	
25	EQ2400374-05	ICT8_062024 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400374-06	ICT8_062024 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400374-04 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 236095 Logbook Ref: Perchlorate IS cg7/3/24 Expires On: 11/24/2024

E2400734-001 100.00µL E2400734-002 100.00µL E2400734-003 100.00µL E2400734-004 100.00µL E2400734-005 100.00µL E2400734-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 441033 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

E2400734-007	100.00µL	E2400734-008	100.00µL	E2400734-009	100.00µL	E2400734-010	100.00µL	E2400734-011	100.00µL	E2400734-012	100.00µL
E2400734-013	100.00µL	E2400734-014	100.00µL	E2400734-015	100.00µL	E2400734-016	100.00µL	E2400734-017	100.00µL	E2400734-018	100.00µL
E2400734-019	100.00µL	E2400734-020	100.00µL	EQ2400374-01	100.00µL	EQ2400374-02	100.00µL	EQ2400374-03	100.00µL	EQ2400374-04	100.00µL
EQ2400374-05	100.00µL	EQ2400374-06	100.00µL								

Name: Perchlorate Intermediate Stock 3 Inventory ID 236096 Logbook Ref: Perchlorate Inter. Stock 3 cg7 Expires On: 10/25/2024

EQ2400374-02	100.00µL	EQ2400374-03	100.00µL	EQ2400374-04	100.00µL	EQ2400374-05	100.00µL	EQ2400374-06	100.00µL		

Preparation Materials

6850 Luer-Lok Syringes Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 7/3/24 11:00
Finished: 7/3/24 13:26
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Preparation Information Benchsheet

Prep Run#: 441034 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400734-021	ICT14C_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2400734-022	ICT14D_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2400734-023	ICT14E_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2400735-001	18WW19_061924	.01	6850/ClO4 DOD			Water	10mL	
5	E2400735-002	18WW20_061924	.01	6850/ClO4 DOD			Water	10mL	
6	E2400735-003	18WW25_061924	.01	6850/ClO4 DOD			Water	10mL	
7	E2400735-004	125_061924	.01	6850/ClO4 DOD			Water	10mL	
8	E2400735-005	18CPTMW16_061924	.01	6850/ClO4 DOD			Water	10mL	
9	E2400735-006	18CPTMW16_061924_a	.01	6850/ClO4 DOD			Water	10mL	
10	E2400736-001	130_062124	.02	6850/ClO4 DOD			Water	10mL	
11	E2400736-002	17WW03_062124	.02	6850/ClO4 DOD			Water	10mL	
12	E2400736-003	17WW01_062124	.02	6850/ClO4 DOD			Water	10mL	
13	E2400736-004	17WW01_062124_A	.02	6850/ClO4 DOD			Water	10mL	
14	E2400736-005	17WW02_062124	.02	6850/ClO4 DOD			Water	10mL	
15	E2400736-006	17WW06_062124	.02	6850/ClO4 DOD			Water	10mL	
16	E2400785-001	LGAC-INF-070124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400787-001	LH18/24-SP650_070224_AIX	.01	6850/ClO4 DOD			Water	10mL	
18	E2400788-001	LH18/24-SP650_070224_BIX	.01	6850/ClO4 DOD			Water	10mL	
19	E2400788-002	LH18/24-SP650_070224_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400789-001	LH18/24-SP140_070224	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400375-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400375-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400375-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2400375-04	ICS		6850/ClO4 DOD			Liquid	10mL	
25	EQ2400375-05	18WW19_061924 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400375-06	18WW19_061924 DMS	.01	6850/ClO4 DOD			Liquid	10mL	
27	EQ2400375-07	17WW03_062124 MS	.02	6850/ClO4 DOD			Liquid	10mL	
28	EQ2400375-08	17WW03_062124 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400375-04 20.00µL

Preparation Information Benchsheet

Prep Run#: 441034 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	236095	Logbook Ref:	Perchlorate IS cg7/3/24	Expires On:	11/24/2024

E2400734-021	100.00µL	E2400734-022	100.00µL	E2400734-023	100.00µL	E2400735-001	100.00µL	E2400735-002	100.00µL	E2400735-003	100.00µL
E2400735-004	100.00µL	E2400735-005	100.00µL	E2400735-006	100.00µL	E2400736-001	100.00µL	E2400736-002	100.00µL	E2400736-003	100.00µL
E2400736-004	100.00µL	E2400736-005	100.00µL	E2400736-006	100.00µL	E2400785-001	100.00µL	E2400787-001	100.00µL	E2400788-001	100.00µL
E2400788-002	100.00µL	E2400789-001	100.00µL	EQ2400375-01	100.00µL	EQ2400375-02	100.00µL	EQ2400375-03	100.00µL	EQ2400375-04	100.00µL
EQ2400375-05	100.00µL	EQ2400375-06	100.00µL	EQ2400375-07	100.00µL	EQ2400375-08	100.00µL				

Name:	Perchlorate Intermediate Stock 3	Inventory ID	236096	Logbook Ref:	Perchlorate Inter. Stock 3 cg7	Expires On:	10/25/2024

EQ2400375-02	100.00µL	EQ2400375-03	100.00µL	EQ2400375-04	100.00µL	EQ2400375-05	100.00µL	EQ2400375-06	100.00µL	EQ2400375-07	100.00µL
EQ2400375-08	100.00µL										

Preparation Materials

6850 Luer-Lok Syringes Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 7/3/24 11:00
Finished: 7/3/24 13:32
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0640
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT2_062024	**Units:**	µg/L
Lab Code:	E2400734-001	**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	**0.684**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 14:47	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0654
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT4_062024	**Units:**	µg/L
Lab Code:	E2400734-002	**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	**2250**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 16:12	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0703
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT7_062024	**Units:**	µg/L
Lab Code:	E2400734-003	**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	**255**		1.00	0.500	0.250	10	7/ 3/24	7/10/24 16:18	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0712
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT8_062024	**Units:**	µg/L
Lab Code:	E2400734-004	**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	**827**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 16:23	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0728
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT11_062024	**Units:**	µg/L
Lab Code:	E2400734-005	**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	**2820**		100	50.0	25.0	1000	7/ 3/24	7/10/24 16:51	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0738
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT12A_062024	**Units:**	µg/L
Lab Code:	E2400734-006	**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	**2350**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 16:57	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0745
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT12B_062024	**Units:**	µg/L
Lab Code:	E2400734-007	**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	**11800**		100	50.0	25.0	1000	7/ 3/24	7/10/24 17:02	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0752
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT12C_062024	**Units:**	µg/L
Lab Code:	E2400734-008	**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	**563**		5.00	2.50	1.25	50	7/ 3/24	7/10/24 17:08	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0800
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT12D_062024	**Units:**	µg/L
Lab Code:	E2400734-009	**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	**18.3**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 15:54	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0800
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT12D_062024_a	**Units:**	µg/L
Lab Code:	E2400734-010	**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	**23.9**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 15:59	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0810
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT12E_062024	**Units:**	µg/L
Lab Code:	E2400734-011	**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	**0.268**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 16:05	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0818
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT13A_062024	**Units:**	µg/L
Lab Code:	E2400734-012	**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	**69.0**		1.00	0.500	0.250	10	7/ 3/24	7/11/24 11:17	441033	846974	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0825
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT13B_062024	**Units:**	µg/L
Lab Code:	E2400734-013	**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	**495**		5.00	2.50	1.25	50	7/ 3/24	7/10/24 17:13	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0834
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT13C_062024	**Units:**	µg/L
Lab Code:	E2400734-014	**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	**102**		1.00	0.500	0.250	10	7/ 3/24	7/10/24 17:19	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0843
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT13D_062024	**Units:**	µg/L
Lab Code:	E2400734-015	**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	**6.78**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 16:38	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0843
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT13D_062024_a	**Units:**	µg/L
Lab Code:	E2400734-016	**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	**6.77**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 16:44	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0855
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT13E_062024	**Units:**	µg/L
Lab Code:	E2400734-017	**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	**363**		1.00	0.500	0.250	10	7/ 3/24	7/10/24 17:24	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0902
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT13F_062024	**Units:**	µg/L
Lab Code:	E2400734-018	**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	**0.299**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 16:55	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0914
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT14A_062024	**Units:**	µg/L
Lab Code:	E2400734-019	**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	**3.29**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 17:00	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0922
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT14B_062024	**Units:**	µg/L
Lab Code:	E2400734-020	**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	**2800**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 17:30	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0927
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT14C_062024	**Units:**	µg/L
Lab Code:	E2400734-021	**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	**1240**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 17:35	441034	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0935
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT14D_062024	**Units:**	µg/L
Lab Code:	E2400734-022	**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	**23.4**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 17:17	441034	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0942
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT14E_062024	**Units:**	µg/L
Lab Code:	E2400734-023	**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	**87.2**		1.00	0.500	0.250	10	7/ 3/24	7/10/24 17:41	441034	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400374-01	**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	**0**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 14:25	441033	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400375-01	**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		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 13:51	441034	846469	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Analyzed:**	07/10/24
Sample Matrix:	Ground Water	**Date Extracted:**	07/03/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	846941

	Lab Control Sample EQ2400374-02			Duplicate Lab Control Sample EQ2400374-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.111	0.100	111	0.0990	0.100	99	84-119	11	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400374-02	**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	**0.111**		0.100	0.0500	0.0250	1	7/ 3/24	7/10/24 15:44	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400374-03	**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	**0.0990**		0.100	0.0500	0.0250	1	7/ 3/24	7/10/24 15:50	441033	846941	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	06/20/24
Sample Matrix:	Ground Water	**Date Received:**	06/21/24
		Date Analyzed:	07/10/24
		Date Extracted:	07/3/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	ICT8_062024	**Units:**	ug/L
Lab Code:	E2400734-004	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400374-05			Duplicate Matrix Spike EQ2400374-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	827	836	0.100	8250 #	839	0.100	11340 #	84-119	<1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0712
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT8_062024	**Units:**	µg/L
Lab Code:	EQ2400374-05	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**836**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 16:29	441033	846941	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	6/20/24 0712
Sample Matrix:	Ground Water	**Date Received:**	6/21/24
Sample Name:	ICT8_062024	**Units:**	µg/L
Lab Code:	EQ2400374-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**839**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 16:34	441033	846941	

ALS Group USA, Corp.
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QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Analyzed:**	07/05/24
Sample Matrix:	Ground Water	**Date Extracted:**	07/03/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	846469

	Lab Control Sample EQ2400375-02			Duplicate Lab Control Sample EQ2400375-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.105	0.100	105	0.104	0.100	104	84-119	2	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400375-02	**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	**0.105**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 13:56	441034	846469	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400734
Project:	HS24061330	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400375-03	**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	**0.104**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 14:02	441034	846469	

Initial Calibration

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Phone (713)266-1599 Fax (713)266-0130
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843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

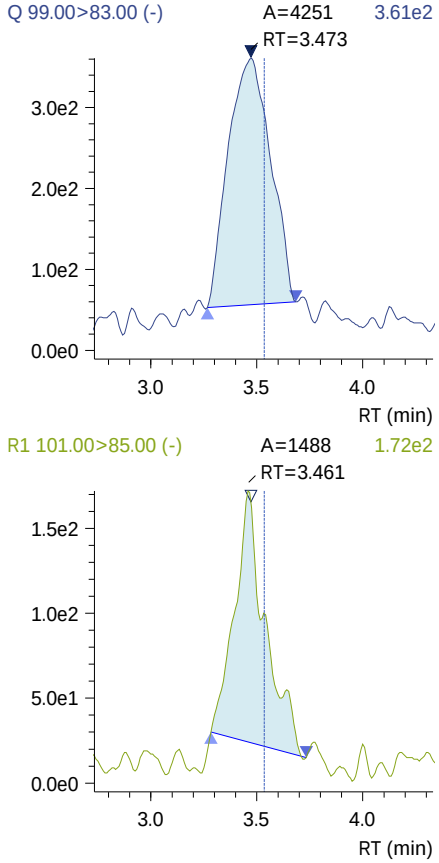
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

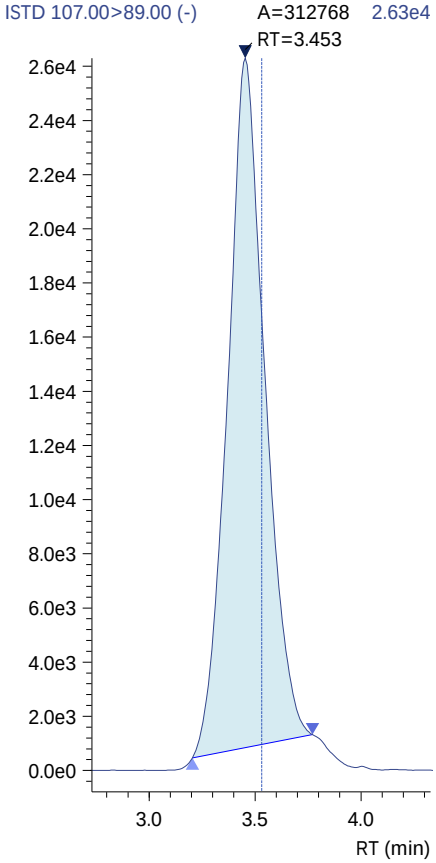
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 2

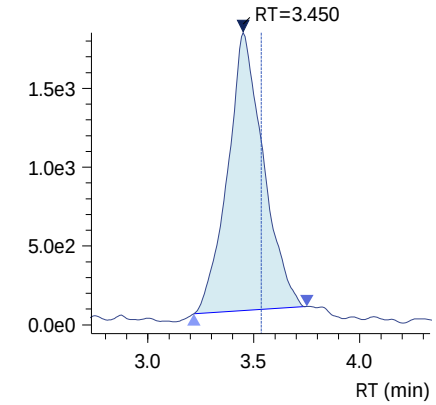
Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

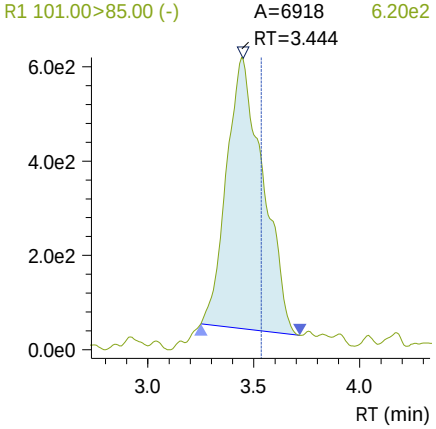
Perchlorate

Conc 0.4757
R#1 33.39 (34.10)

Q 99.00>83.00 (-) A=20717 1.85e3



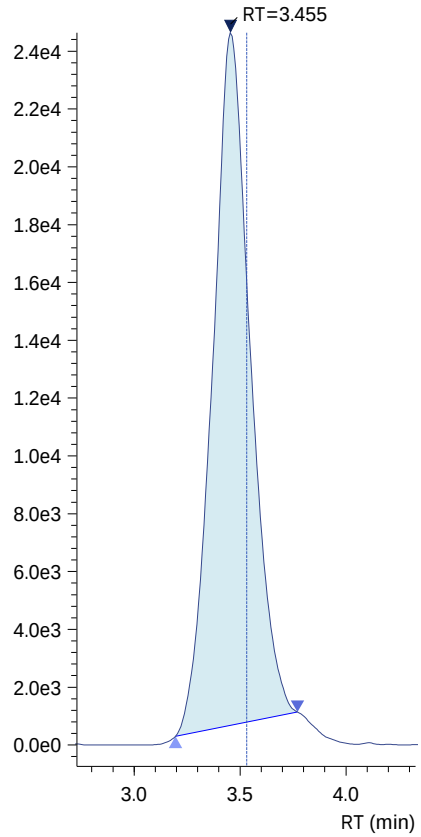
R1 101.00>85.00 (-) A=6918 6.20e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=298266 2.46e4



Insight Report

Printed at 6/12/2024 8:45:04 AM

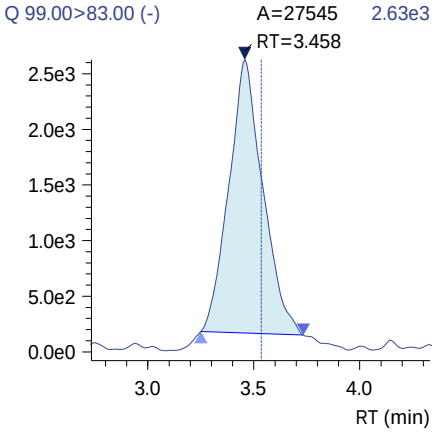
Perchlorate ICAL 3

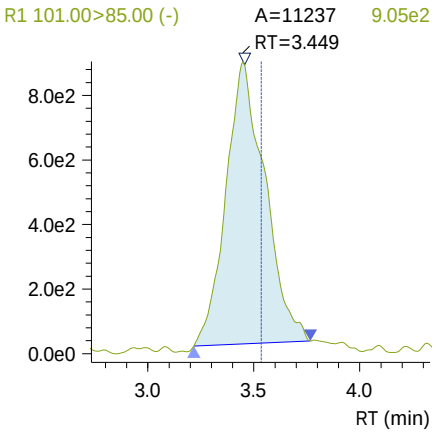
Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

Perchlorate

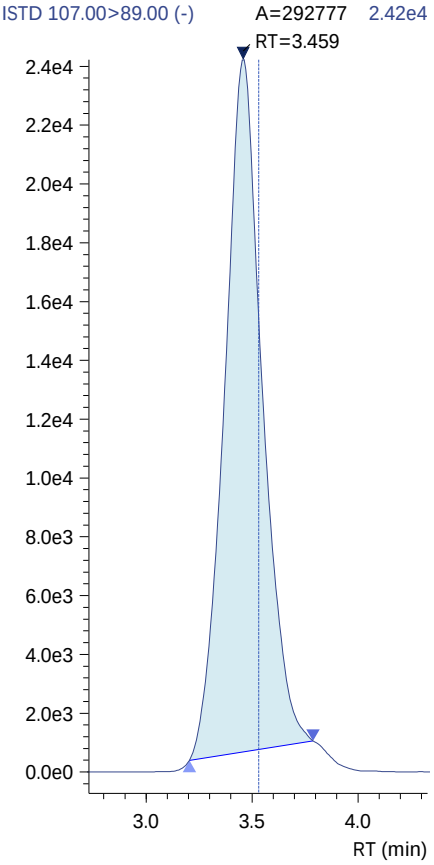
Conc 0.6444
R#1 40.79 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

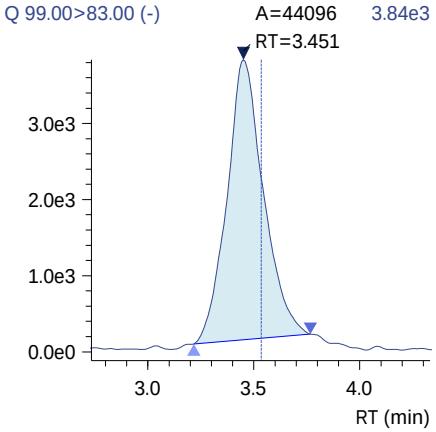
Perchlorate ICAL 4

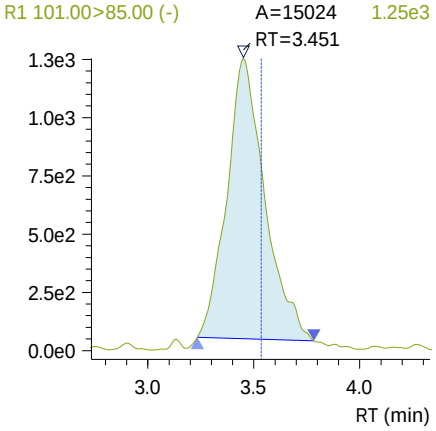
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

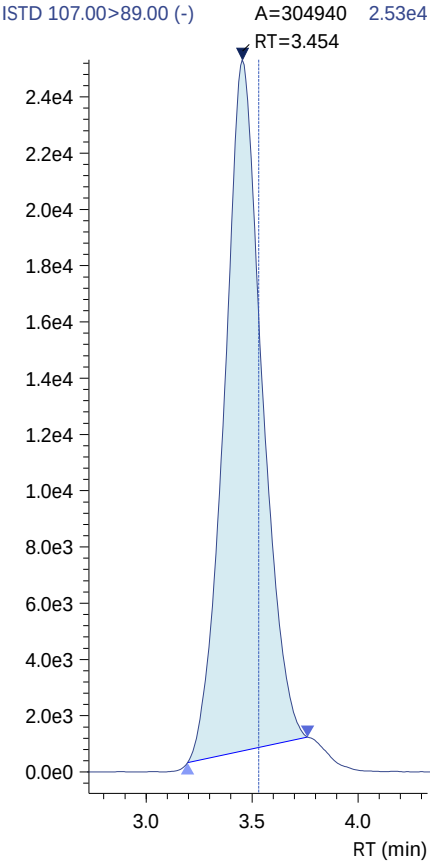
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

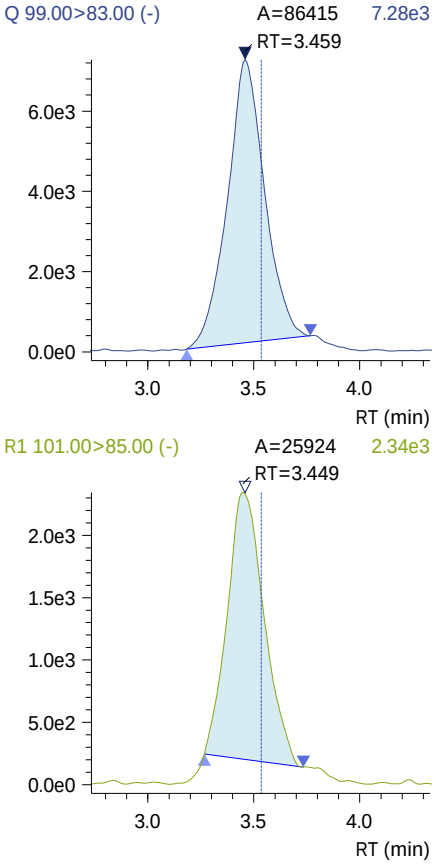
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

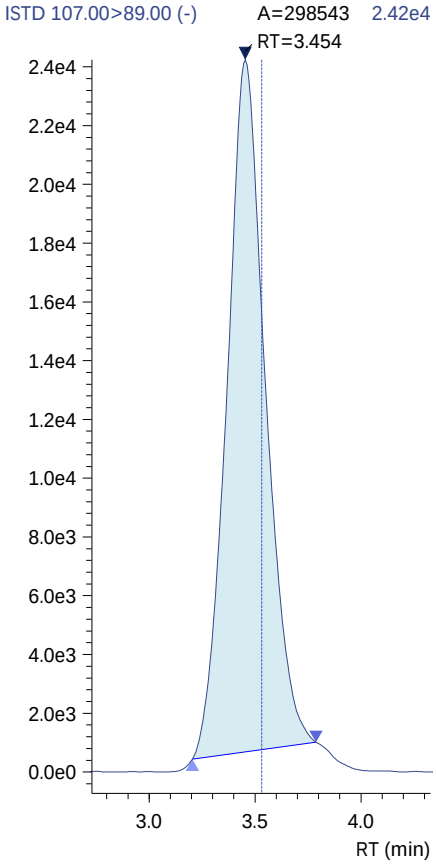
Perchlorate

Conc 1.9825
R#1 30.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

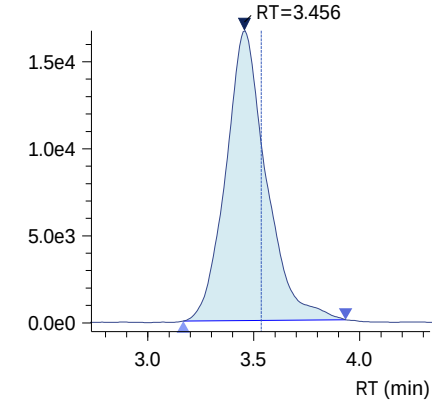
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

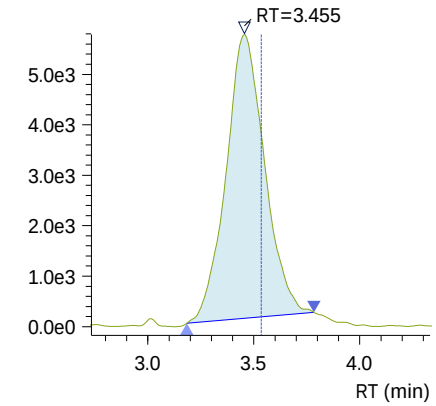
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



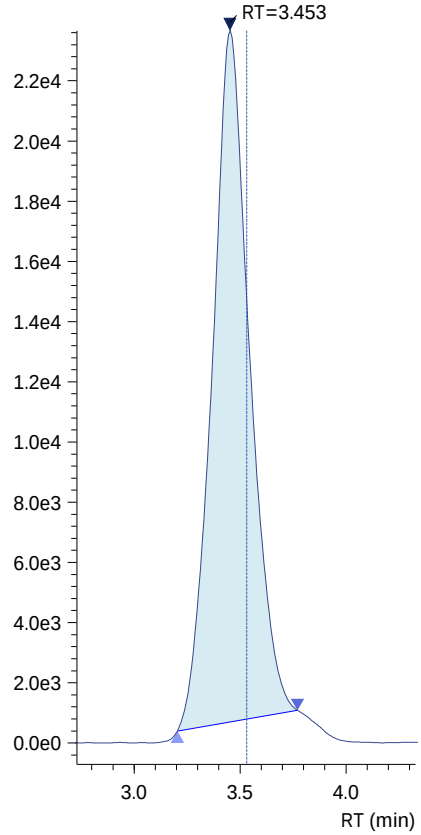
R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

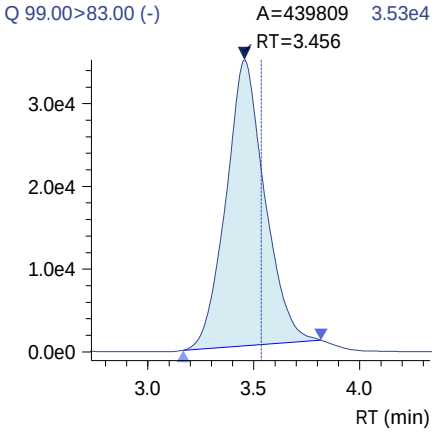
Perchlorate ICAL 7

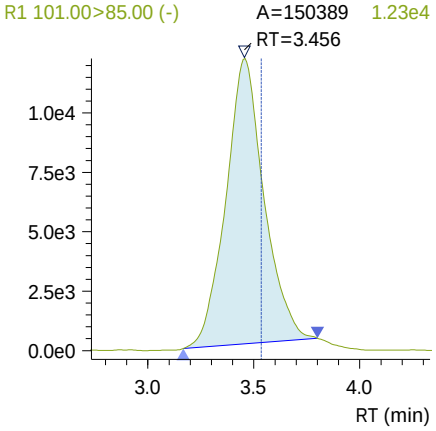
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

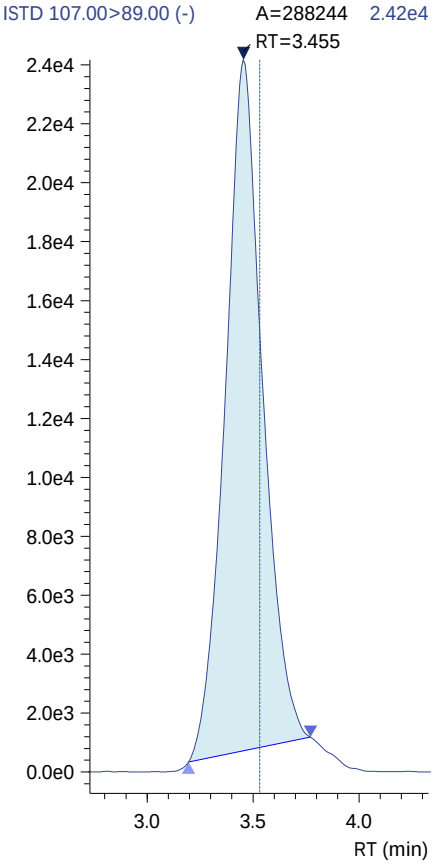
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

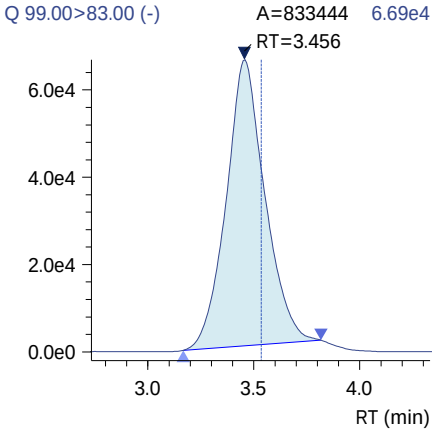
Perchlorate ICAL 8

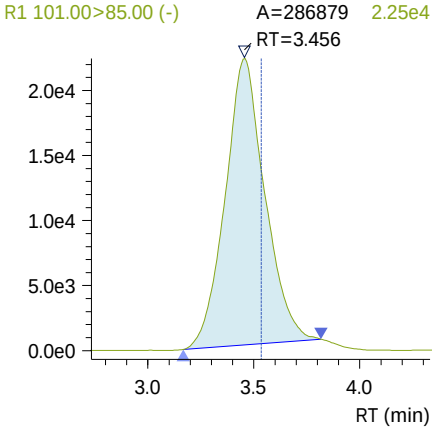
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

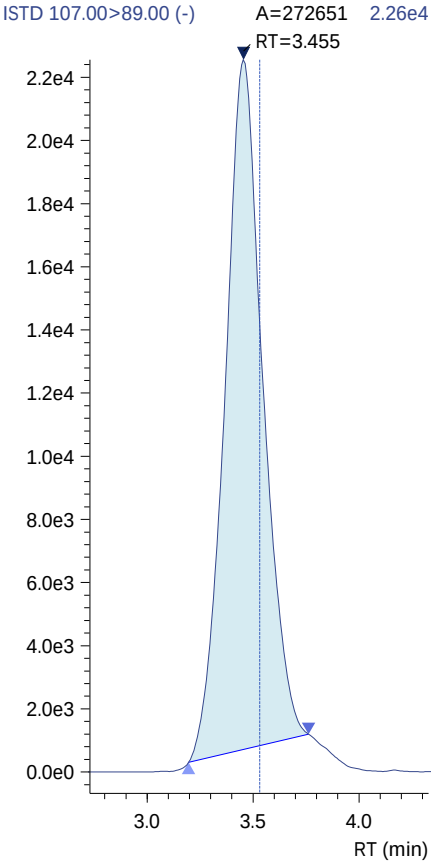
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

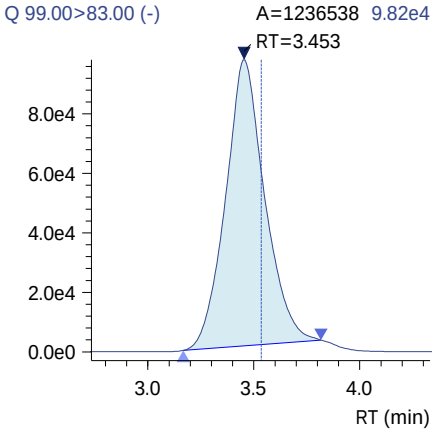
Perchlorate ICAL 9

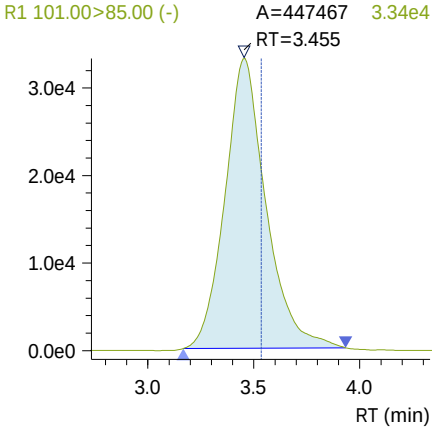
Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

Perchlorate

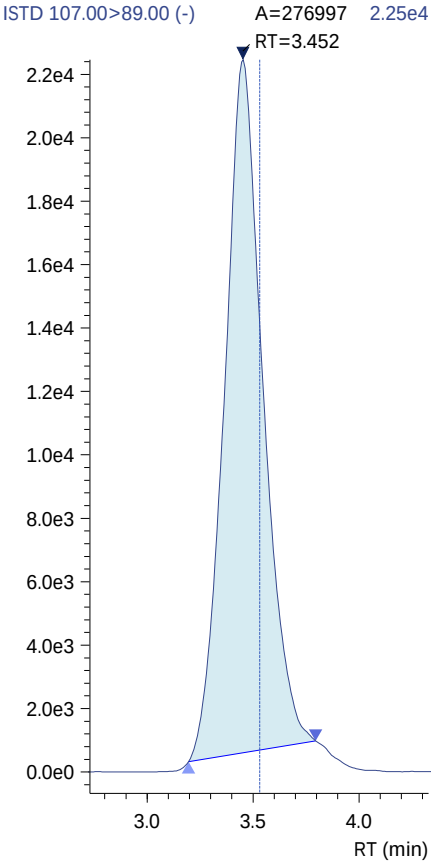
Conc 30.5749
R#1 36.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

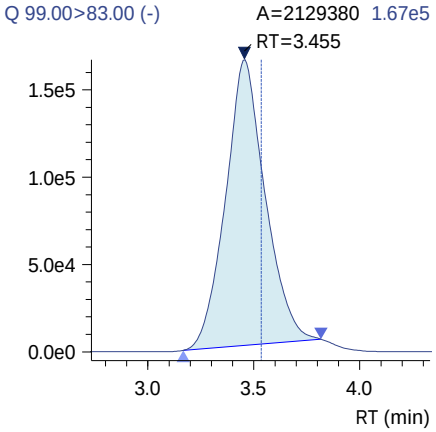
Perchlorate ICAL 10

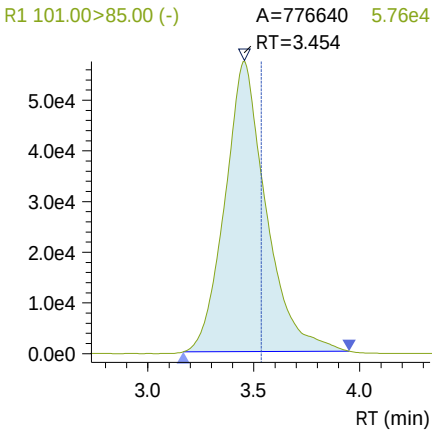
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

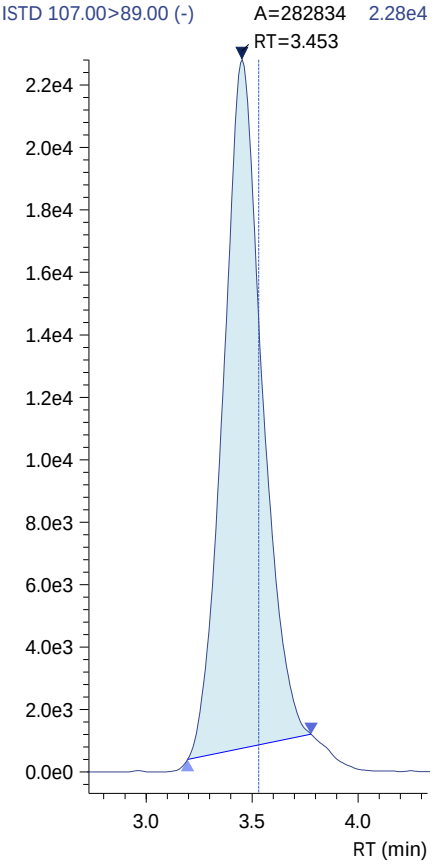
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

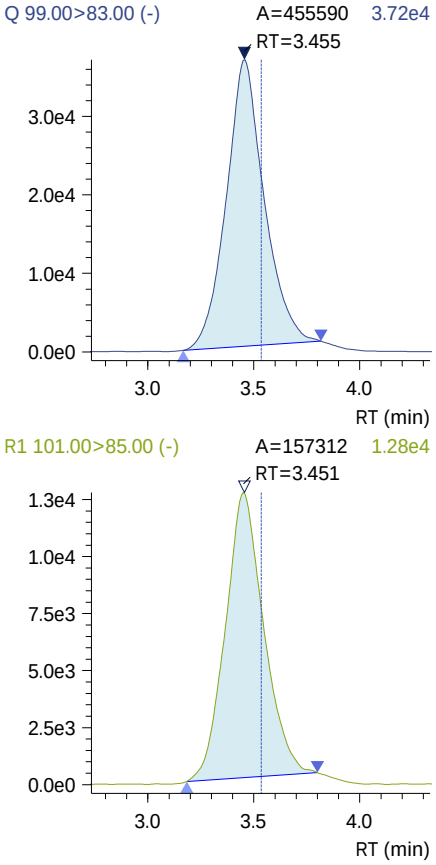
PerchlorateICV

Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

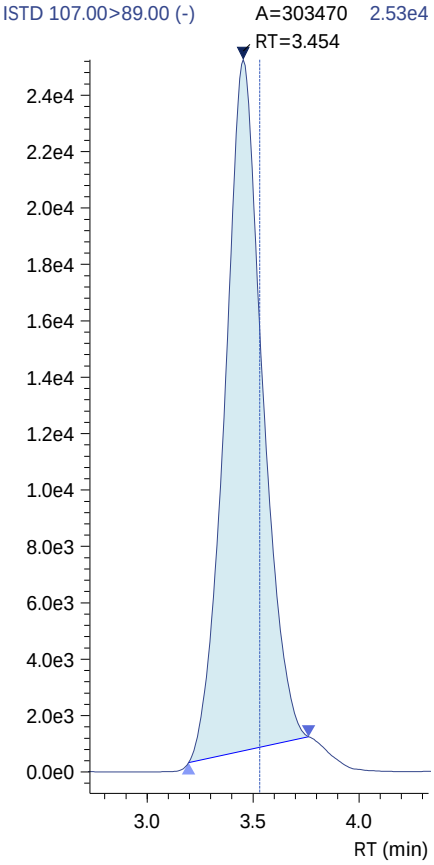
Perchlorate

Conc 10.2823
R#1 34.53 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211813-9 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240705-001	IB	Perchlorate6850c.lcm	1x		7/5/2024 12:32
2	20240705-002	IB	Perchlorate6850c.lcm	1x		7/5/2024 12:56
3	20240705-003	CCV	Perchlorate6850c.lcm	1x		7/5/2024 13:02
4	20240705-004	ICS	Perchlorate6850c.lcm	1x		7/5/2024 13:16
5	20240705-005	LODV	Perchlorate6850c.lcm	1x		7/5/2024 13:29
6	20240705-006	IB	Perchlorate6850c.lcm	1x		7/5/2024 13:34
7	20240705-007	E2400788-001	Perchlorate6850c.lcm	1x		7/5/2024 13:40
8	20240705-008	E2400788-002	Perchlorate6850c.lcm	1x		7/5/2024 13:45
9	20240705-009	EQ2400375-01MB	Perchlorate6850c.lcm	1x		7/5/2024 13:51
10	20240705-010	EQ2400375-02LCS	Perchlorate6850c.lcm	1x		7/5/2024 13:56
11	20240705-011	EQ2400375-03DLCS	Perchlorate6850c.lcm	1x		7/5/2024 14:02
12	20240705-012	EQ2400375-04ICS	Perchlorate6850c.lcm	1x		7/5/2024 14:07
13	20240705-013	IB	Perchlorate6850c.lcm	1x		7/5/2024 14:14
14	20240705-014	CCV	Perchlorate6850c.lcm	1x		7/5/2024 14:19
15	20240705-015	EQ2400374-01MB	Perchlorate6850c.lcm	1x		7/5/2024 14:25
16	20240705-016	EQ2400374-02LCS	Perchlorate6850c.lcm	1x		7/5/2024 14:30
17	20240705-017	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x		7/5/2024 14:36
18	20240705-018	EQ2400374-04ICS	Perchlorate6850c.lcm	1x		7/5/2024 14:42
19	20240705-019	E2400734-001	Perchlorate6850c.lcm	1x		7/5/2024 14:47
20	20240705-020	E2400734-002	Perchlorate6850c.lcm	1x	DNU	7/5/2024 14:53
21	20240705-021	E2400734-003	Perchlorate6850c.lcm	1x	DNU	7/5/2024 14:58
22	20240705-022	E2400734-004	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:04
23	20240705-023	EQ2400374-05MS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:09
24	20240705-024	EQ2400374-06DMS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:15
25	20240705-025	IB	Perchlorate6850c.lcm	1x		7/5/2024 15:20
26	20240705-026	CCV	Perchlorate6850c.lcm	1x		7/5/2024 15:26
27	20240705-027	E2400734-005	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:32
28	20240705-028	E2400734-006	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:37
29	20240705-029	E2400734-007	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:43
30	20240705-030	E2400734-008	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:48
31	20240705-031	E2400734-009	Perchlorate6850c.lcm	1x		7/5/2024 15:54
32	20240705-032	E2400734-010	Perchlorate6850c.lcm	1x		7/5/2024 15:59
33	20240705-033	E2400734-011	Perchlorate6850c.lcm	1x		7/5/2024 16:05
34	20240705-034	E2400734-012	Perchlorate6850c.lcm	1x		7/5/2024 16:10
35	20240705-035	E2400734-013	Perchlorate6850c.lcm	1x	DNU	7/5/2024 16:16
36	20240705-036	E2400734-014	Perchlorate6850c.lcm	1x		7/5/2024 16:21
37	20240705-037	IB	Perchlorate6850c.lcm	1x		7/5/2024 16:27
38	20240705-038	CCV	Perchlorate6850c.lcm	1x		7/5/2024 16:32
39	20240705-039	E2400734-015	Perchlorate6850c.lcm	1x		7/5/2024 16:38
40	20240705-040	E2400734-016	Perchlorate6850c.lcm	1x		7/5/2024 16:44
41	20240705-041	E2400734-017	Perchlorate6850c.lcm	1x	DNU	7/5/2024 16:49

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211813-9 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240705-042	E2400734-018	Perchlorate6850c.lcm	1x		7/5/2024 16:55
43	20240705-043	E2400734-019	Perchlorate6850c.lcm	1x		7/5/2024 17:00
44	20240705-044	E2400734-020	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:06
45	20240705-045	E2400734-021	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:11
46	20240705-046	E2400734-022	Perchlorate6850c.lcm	1x		7/5/2024 17:17
47	20240705-047	E2400734-023	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:22
48	20240705-048	E2400735-001	Perchlorate6850c.lcm	1x		7/5/2024 17:28
49	20240705-049	IB	Perchlorate6850c.lcm	1x		7/5/2024 17:33
50	20240705-050	CCV	Perchlorate6850c.lcm	1x		7/5/2024 17:39
51	20240705-051	EQ2400374-02LCS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:44
52	20240705-052	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:50
53	20240705-053	E2400735-001MS	Perchlorate6850c.lcm	1x		7/5/2024 17:56
54	20240705-054	E2400735-001DMS	Perchlorate6850c.lcm	1x		7/5/2024 18:01
55	20240705-055	E2400735-002	Perchlorate6850c.lcm	1x		7/5/2024 18:07
56	20240705-056	E2400735-003	Perchlorate6850c.lcm	1x		7/5/2024 18:12
57	20240705-057	E2400735-004	Perchlorate6850c.lcm	1x	DNU	7/5/2024 18:18
58	20240705-058	E2400735-005	Perchlorate6850c.lcm	1x		7/5/2024 18:23
59	20240705-059	E2400735-006	Perchlorate6850c.lcm	1x		7/5/2024 18:29
60	20240705-060	E2400736-001	Perchlorate6850c.lcm	1x		7/5/2024 18:34
61	20240705-061	IB	Perchlorate6850c.lcm	1x		7/5/2024 18:40
62	20240705-062	CCV	Perchlorate6850c.lcm	1x		7/5/2024 18:45
63	20240705-063	E2400736-002	Perchlorate6850c.lcm	1x	DNU	7/5/2024 18:51
64	20240705-064	E2400736-002MS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 18:56
65	20240705-065	E2400736-002DMS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:02
66	20240705-066	E2400736-003	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:08
67	20240705-067	E2400736-004	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:13
68	20240705-068	E2400736-005	Perchlorate6850c.lcm	1x		7/5/2024 19:19
69	20240705-069	E2400736-006	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:24
70	20240705-070	E2400785-001	Perchlorate6850c.lcm	1x		7/5/2024 19:30
71	20240705-071	E2400787-001	Perchlorate6850c.lcm	1x		7/5/2024 19:35
72	20240705-072	E2400789-001	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:41
73	20240705-073	IB	Perchlorate6850c.lcm	1x		7/5/2024 19:46
74	20240705-074	CCV	Perchlorate6850c.lcm	1x		7/5/2024 19:52

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211814-2 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240710-001	IB	Perchlorate6850c.lcm	1x		7/10/2024 13:34
2	20240710-002	ICS	Perchlorate6850c.lcm	1x		7/10/2024 13:39
3	20240710-003	CCV	Perchlorate6850c.lcm	1x		7/10/2024 13:45
4	20240710-004	LODV	Perchlorate6850c.lcm	1x		7/10/2024 13:50
5	20240710-005	IB	Perchlorate6850c.lcm	1x		7/10/2024 13:56
6	20240710-006	EQ2400374-01MB	Perchlorate6850c.lcm	1x	DNU Report 7/5 run	7/10/2024 14:38
7	20240710-007	EQ2400374-02LCS	Perchlorate6850c.lcm	1x	DNU	7/10/2024 14:43
8	20240710-008	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x	DNU	7/10/2024 14:49
9	20240710-009	EQ2400374-04ICS	Perchlorate6850c.lcm	1x	DNU Report 7/5 run	7/10/2024 14:54
10	20240710-010	E2400735-004x100	Perchlorate6850c.lcm	100x		7/10/2024 15:00
11	20240710-011	E2400736-002x10	Perchlorate6850c.lcm	10x		7/10/2024 15:05
12	20240710-012	EQ2400375-07MSX10	Perchlorate6850c.lcm	10x		7/10/2024 15:11
13	20240710-013	EQ2400375-08DMSX10	Perchlorate6850c.lcm	10x		7/10/2024 15:17
14	20240710-014	E2400376-003X10	Perchlorate6850c.lcm	10x		7/10/2024 15:22
15	20240710-015	E2400376-004X10	Perchlorate6850c.lcm	10x		7/10/2024 15:28
16	20240710-016	CCV	Perchlorate6850c.lcm	1x		7/10/2024 15:33
17	20240710-017	IB	Perchlorate6850c.lcm	1x		7/10/2024 15:39
18	20240710-018	EQ2400374-02LCS	Perchlorate6850c.lcm	1x		7/10/2024 15:44
19	20240710-019	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x		7/10/2024 15:50
20	20240710-020	E2400376-005X10	Perchlorate6850c.lcm	10x	DNU Report 7/5 run	7/10/2024 15:56
21	20240710-021	E2400736-006X1000	Perchlorate6850c.lcm	1000x		7/10/2024 16:01
22	20240710-022	E2400789-001X500	Perchlorate6850c.lcm	500x		7/10/2024 16:07
23	20240710-023	E2400734-002X100	Perchlorate6850c.lcm	100x		7/10/2024 16:12
24	20240710-024	E2400734-003X10	Perchlorate6850c.lcm	10x		7/10/2024 16:18
25	20240710-025	E2400734-004X100	Perchlorate6850c.lcm	100x		7/10/2024 16:23
26	20240710-026	EQ2400374-05MSX100	Perchlorate6850c.lcm	100x		7/10/2024 16:29
27	20240710-027	EQ2400374-06DMSX100	Perchlorate6850c.lcm	100x		7/10/2024 16:34
28	20240710-028	CCV	Perchlorate6850c.lcm	1x		7/10/2024 16:40
29	20240710-029	IB	Perchlorate6850c.lcm	1x		7/10/2024 16:46
30	20240710-030	E2400734-005X1000	Perchlorate6850c.lcm	1000x		7/10/2024 16:51
31	20240710-031	E2400734-006X100	Perchlorate6850c.lcm	100x		7/10/2024 16:57
32	20240710-032	E2400734-007X1000	Perchlorate6850c.lcm	1000x		7/10/2024 17:02
33	20240710-033	E2400734-008X50	Perchlorate6850c.lcm	50x		7/10/2024 17:08
34	20240710-034	E2400734-013X50	Perchlorate6850c.lcm	50x		7/10/2024 17:13
35	20240710-035	E2400734-014X10	Perchlorate6850c.lcm	10x		7/10/2024 17:19
36	20240710-036	E2400734-017X10	Perchlorate6850c.lcm	10x		7/10/2024 17:24
37	20240710-037	E2400734-020X100	Perchlorate6850c.lcm	100x		7/10/2024 17:30
38	20240710-038	E2400734-021X100	Perchlorate6850c.lcm	100x		7/10/2024 17:35
39	20240710-039	E2400734-023X10	Perchlorate6850c.lcm	10x		7/10/2024 17:41
40	20240710-040	CCV	Perchlorate6850c.lcm	1x		7/10/2024 17:46
41	20240710-041	IB	Perchlorate6850c.lcm	1x		7/10/2024 17:52

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211814-2 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240711-001	IB	Perchlorate6850c.lcm	1x		7/11/2024 10:49
2	20240711-002	LODV	Perchlorate6850c.lcm	1x		7/11/2024 10:55
3	20240711-003	ICS	Perchlorate6850c.lcm	1x		7/11/2024 11:00
4	20240711-004	CCV	Perchlorate6850c.lcm	1x		7/11/2024 11:06
5	20240711-005	IB	Perchlorate6850c.lcm	1x		7/11/2024 11:11
6	20240711-006	E2400734-012x10	Perchlorate6850c.lcm	10x		7/11/2024 11:17
7	20240711-007	CCV	Perchlorate6850c.lcm	1x		7/11/2024 11:22
8	20240711-008	IB	Perchlorate6850c.lcm	1x		7/11/2024 11:28

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/5/24 13:02

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-003
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400376-01
Analysis Lot: 846469
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400376-01	197,133	3.43
Method Blank	EQ2400375-01	196,343	3.43
Lab Control Sample	EQ2400375-02	191,311	3.43
Duplicate Lab Control Sample	EQ2400375-03	179,660	3.43

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/5/24 14:19

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-014
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400376-02
Analysis Lot: 846469
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400376-02	201,802	3.43

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/5/24 14:19

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-014
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-01
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-01	201,802	3.43
Method Blank	EQ2400374-01	198,466	3.43
ICT2_062024	E2400734-001	203,932	3.42

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/5/24 15:26

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-026
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-02
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-02	208,764	3.42
ICT12D_062024	E2400734-009	210,510	3.42
ICT12D_062024_a	E2400734-010	204,027	3.43
ICT12E_062024	E2400734-011	219,816	3.43

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/5/24 16:32

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-038
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-03
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-03	200,200	3.42
ICT13D_062024	E2400734-015	196,024	3.42
ICT13D_062024_a	E2400734-016	194,511	3.43
ICT13F_062024	E2400734-018	198,935	3.42
ICT14A_062024	E2400734-019	198,291	3.43
ICT14D_062024	E2400734-022	222,942	3.42

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:** E2400734
Project: HS24061330 **Date Analyzed:** 7/5/24 17:39

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-050 **Lab Code:** EQ2400381-04
Instrument ID: E-LCMS-01 **Analysis Lot:** 846917
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-04	196,021	3.42

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/5/24 18:45

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-062
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-05
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-05	198,372	3.42

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/5/24 19:52

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240705\20240705-074
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-06
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-06	218,852	3.42

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24 13:45

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240710\20240710-003
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-01
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-01	152,163	3.40

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24 15:33

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240710\20240710-016
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-02
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-02	164,410	3.41
Lab Control Sample	EQ2400374-02	145,938	3.40
Duplicate Lab Control Sample	EQ2400374-03	179,315	3.40
ICT4_062024	E2400734-002	146,723	3.40
ICT7_062024	E2400734-003	154,104	3.40
ICT8_062024	E2400734-004	155,693	3.40
ICT8_062024MS	EQ2400374-05	152,417	3.40
ICT8_062024DMS	EQ2400374-06	145,891	3.40

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24 16:40

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240710\20240710-028
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-03
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-03	179,730	3.40
ICT11_062024	E2400734-005	161,604	3.40
ICT12A_062024	E2400734-006	149,624	3.40
ICT12B_062024	E2400734-007	165,232	3.40
ICT12C_062024	E2400734-008	160,413	3.40
ICT13B_062024	E2400734-013	160,007	3.40
ICT13C_062024	E2400734-014	168,784	3.40
ICT13E_062024	E2400734-017	149,921	3.41
ICT14B_062024	E2400734-020	148,611	3.40
ICT14C_062024	E2400734-021	152,736	3.40
ICT14E_062024	E2400734-023	166,647	3.40

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24 17:46

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240710\20240710-040
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-04
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-04	173,977	3.40

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/11/24 11:06

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240711\20240711-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400385-01
Analysis Lot: 846974
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400385-01	162,123	3.41
ICT13A_062024	E2400734-012	187,966	3.41

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/11/24 11:22

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240711\20240711-007
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400385-02
Analysis Lot: 846974
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400385-02	164,615	3.41

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: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-003

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846469
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1460	0.1463	0.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-014

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846469
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	0.1573	7.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-014

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	0.1573	7.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-026

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.9	0.1460	0.1590	8.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-038

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	0.1581	8.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-050

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1460	0.1561	6.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-062

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	0.1573	7.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/ 5/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-074

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1460	0.1553	6.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-003

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.74	0.1460	2.165E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-016

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.82	0.1460	2.358E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-028

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.61	0.1460	2.522E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/10/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-040

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	2.566E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/11/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240711\20240711-004

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846974
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.03	0.1460	0.1318	-9.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061330

Service Request: E2400734
Date Analyzed: 7/11/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240711\20240711-007

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846974
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	0.1476	1.1	NA	± 15 %	Average RF

Insight Report

Printed at 7/11/2024 11:39:02 AM

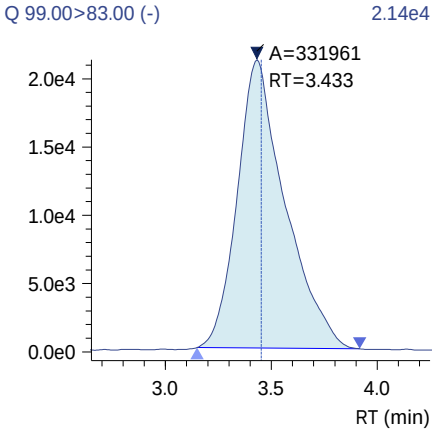
CCV

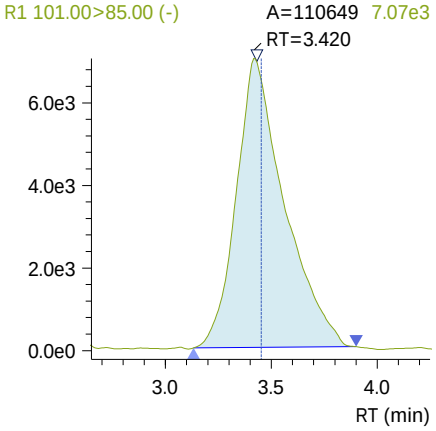
Sample ID: CCV
Date Acquired: 7/5/2024 3:26:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-026.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.433	331961	208764	10.8909	ng/mL	101.00 >85.00	33.33	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.422	208764	208764	1.0000	ng/mL	----	----	

Perchlorate

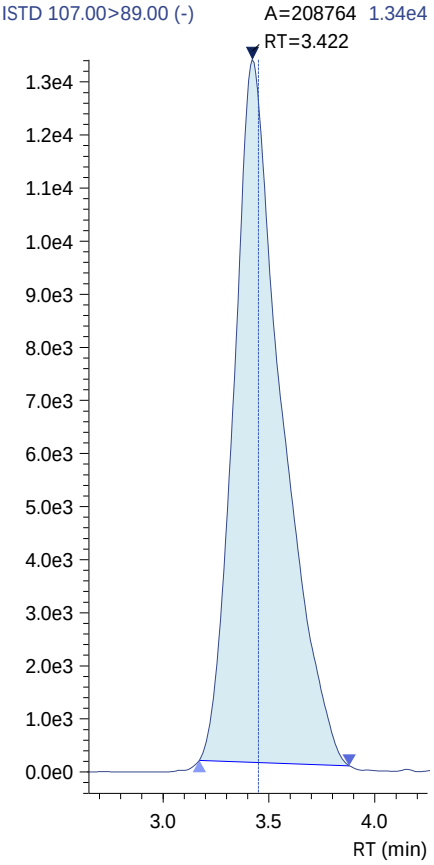
Conc 10.8909
R#1 33.33 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

Method File: I:\LCMS01\DATA\20240705\20240705.lcm
Project File: I:\LCMS01\DATA\20240705\20240705.damlp

IB

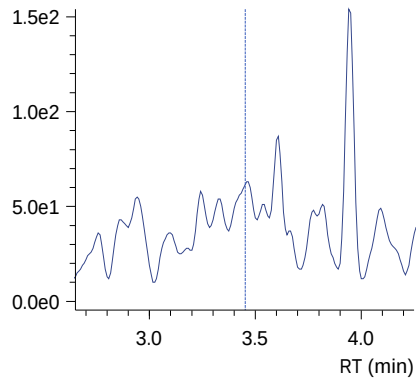
Sample ID: IB
Date Acquired: 7/5/2024 12:32:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	177014	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.428	177014	177014	1.0000	ng/mL	----	----	

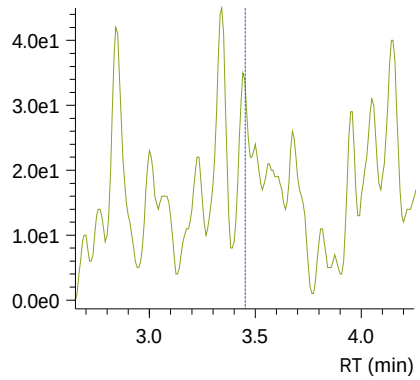
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.54e2



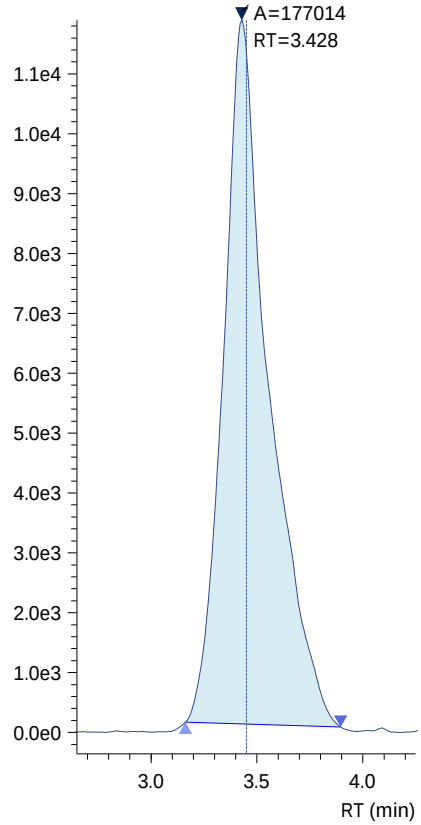
R1 101.00>85.00 (-) 4.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.19e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

IB

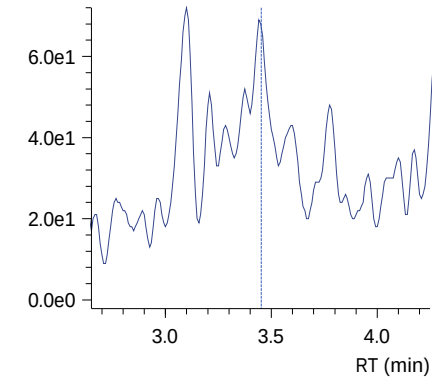
Sample ID: IB
Date Acquired: 7/5/2024 12:56:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	192052	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.431	192052	192052	1.0000	ng/mL	----	----	

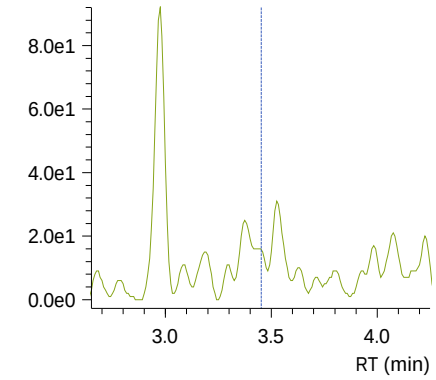
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e1



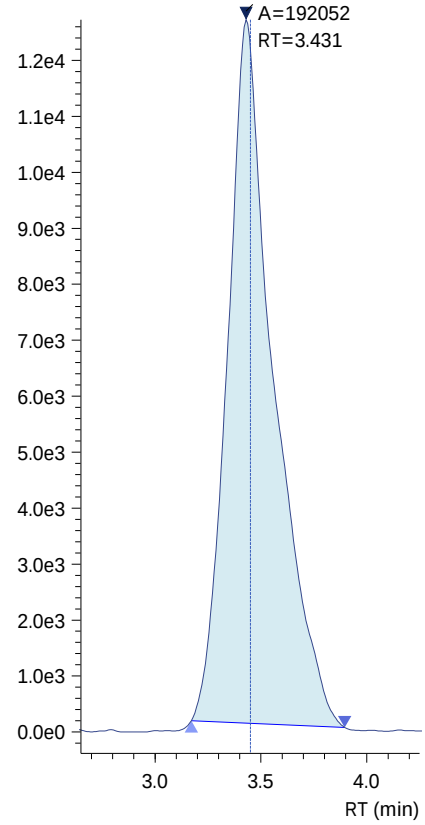
R1 101.00>85.00 (-) 9.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.27e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

CCV

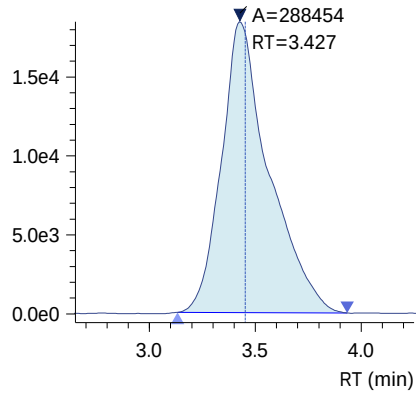
Sample ID: CCV
Date Acquired: 7/5/2024 1:02:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.427	288454	197133	10.0219	ng/mL	101.00 >85.00	33.11	23.32 -42.91
Sodium Perchlorate -18O4_IS	M	3.430	197133	197133	1.0000	ng/mL	----	----	

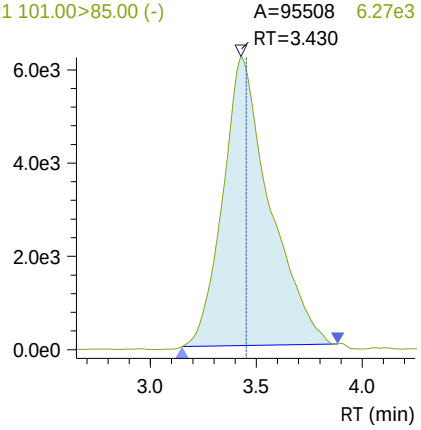
Perchlorate

Conc 10.0219
R#1 33.11 (35.24)

Q 99.00>83.00 (-) 1.85e4



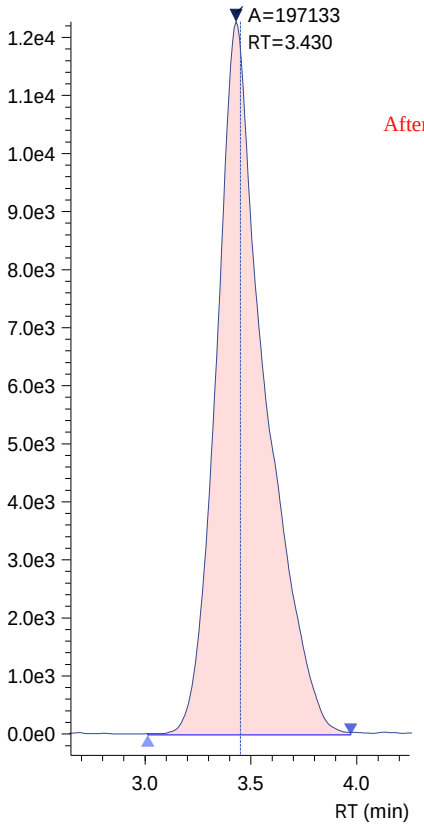
R1 101.00>85.00 (-) A=95508 6.27e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



After-BLC

Insight Report

Printed at 7/11/2024 11:40:38 AM

Method File: I:\LCMS01\DATA\20240705\20240705.lcm
Project File: I:\LCMS01\DATA\20240705\20240705.damlp

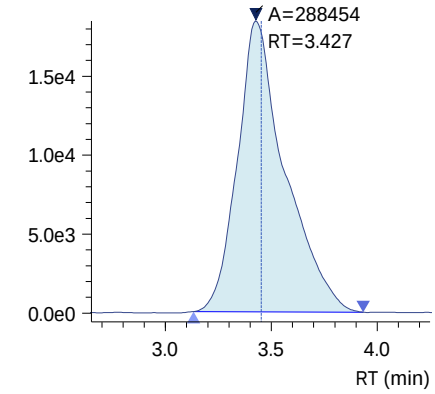
CCV

Sample ID: CCV
Date Acquired: 7/5/2024 1:02:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

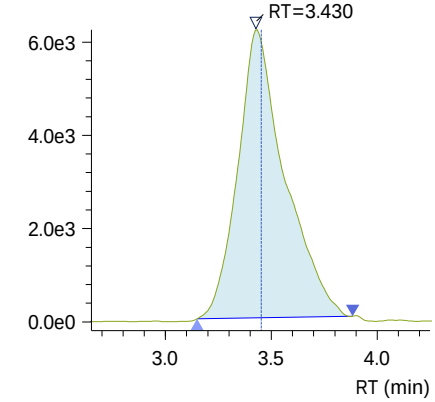
Perchlorate

Conc 10.4491
R#1 33.11 (35.24)

Q 99.00>83.00 (-) 1.85e4



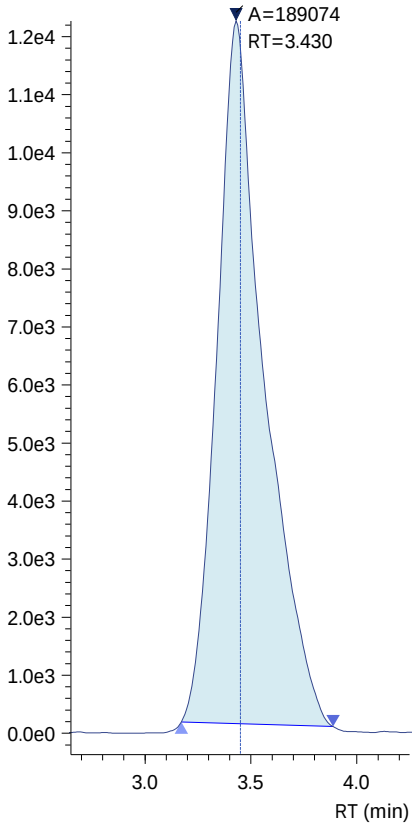
R1 101.00>85.00 (-) A=95508 6.27e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

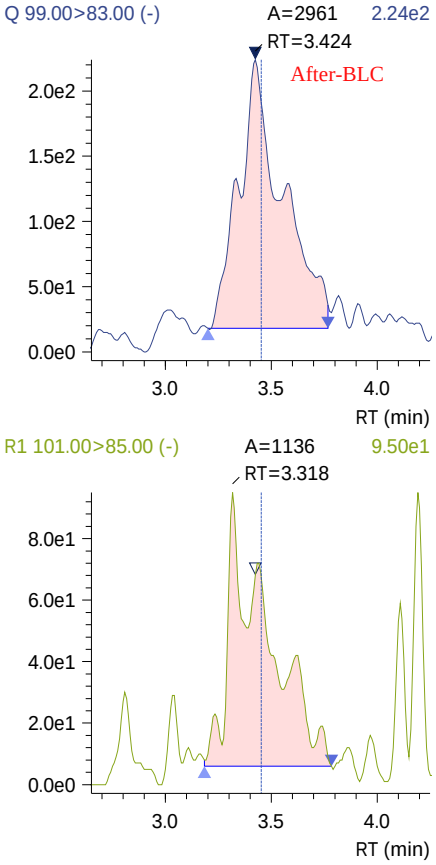
ICS

Sample ID: ICS
Date Acquired: 7/5/2024 1:16:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-004.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.424	2961	184580	0.1099	ng/mL	101.00 >85.00	38.35	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.428	184580	184580	1.0000	ng/mL	----	----	

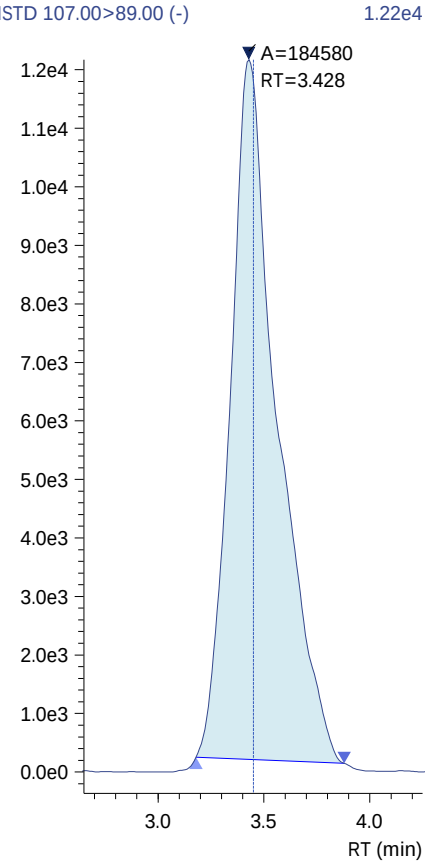
Perchlorate

Conc 0.1099
R#1 38.35 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

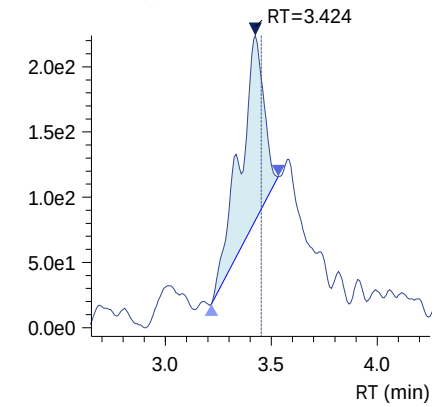
ICS

Sample ID: ICS
Date Acquired: 7/5/2024 1:16:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-004.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

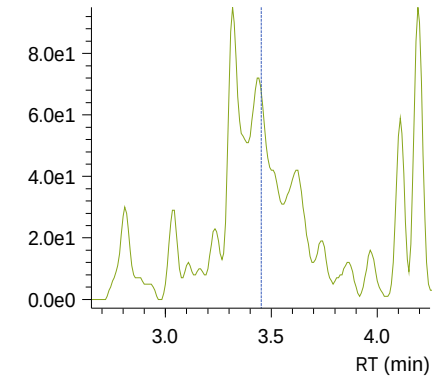
Perchlorate

Conc 0.0412
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1110 2.24e2



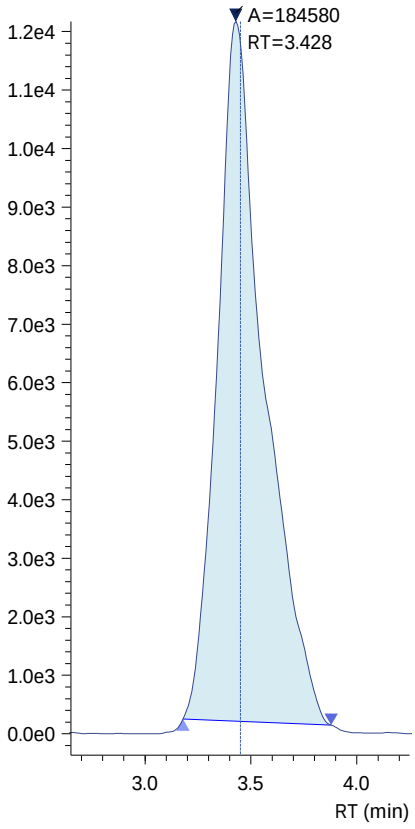
R1 101.00>85.00 (-) 9.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

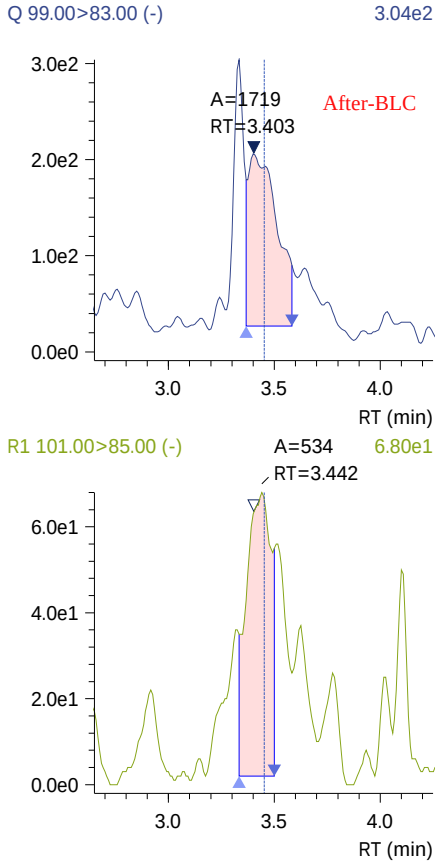
LODV

Sample ID: LODV
Date Acquired: 7/5/2024 1:29:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-005.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.403	1719	221331	0.0532	ng/mL	101.00 >85.00	31.07	23.32 -42.91
Sodium Perchlorate -18O4_IS	M	3.430	221331	221331	1.0000	ng/mL	----	----	

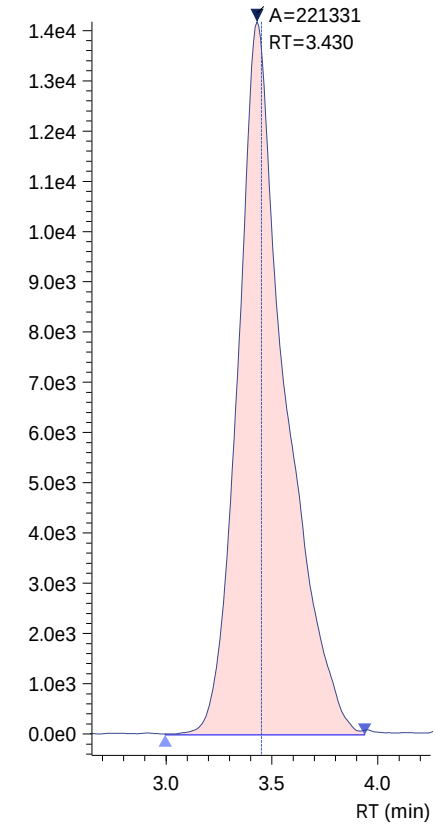
Perchlorate

Conc 0.0532
R#1 31.07 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 11:40:38 AM

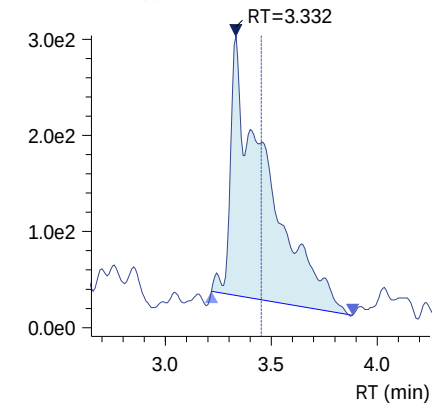
LODV

Sample ID: LODV
Date Acquired: 7/5/2024 1:29:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-005.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

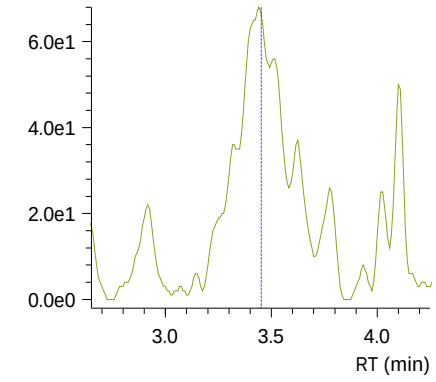
Perchlorate

Conc 0.1025
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=3194 3.04e2



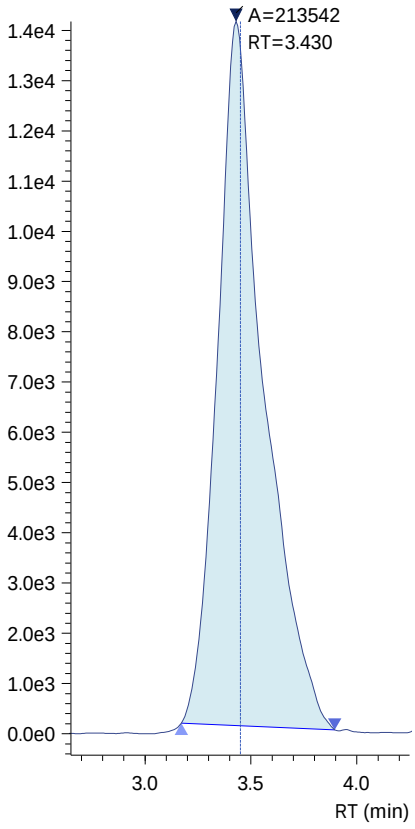
R1 101.00>85.00 (-) 6.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.42e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

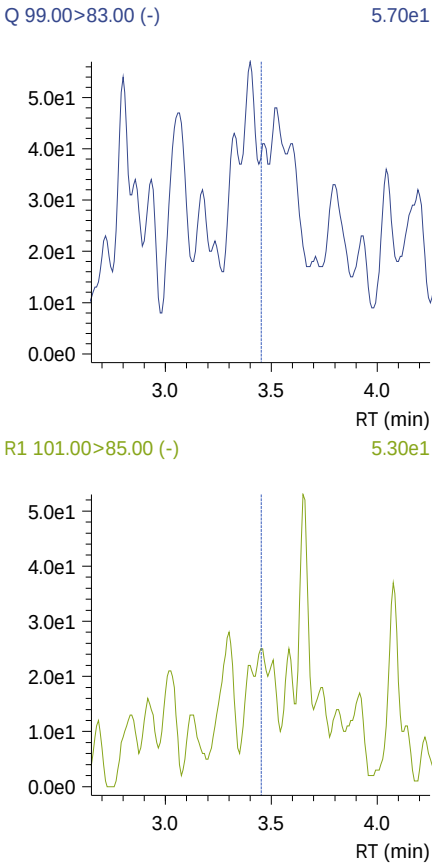
IB

Sample ID: IB
Date Acquired: 7/5/2024 1:34:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	203269	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	M	3.425	203269	203269	1.0000	ng/mL	----	----	

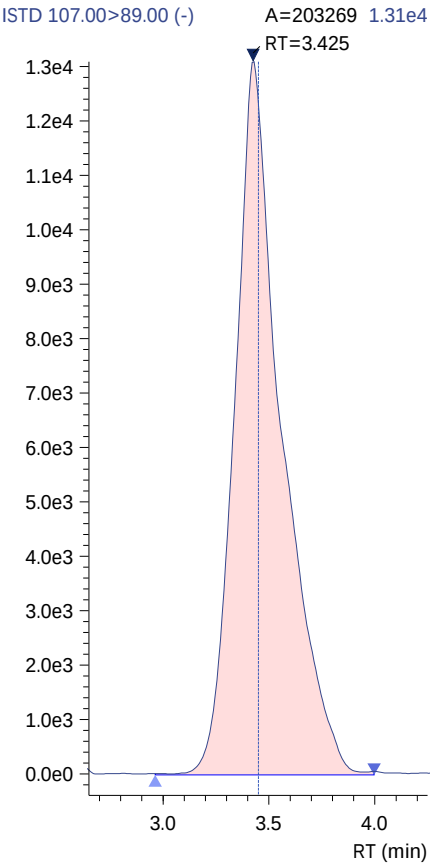
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 11:40:38 AM

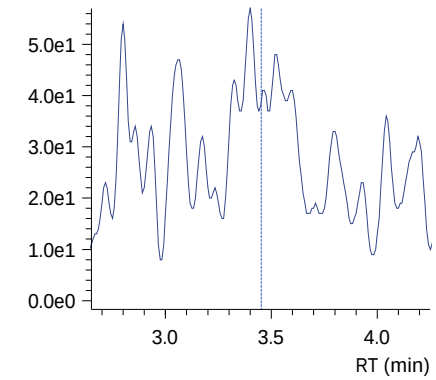
IB

Sample ID: IB
Date Acquired: 7/5/2024 1:34:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

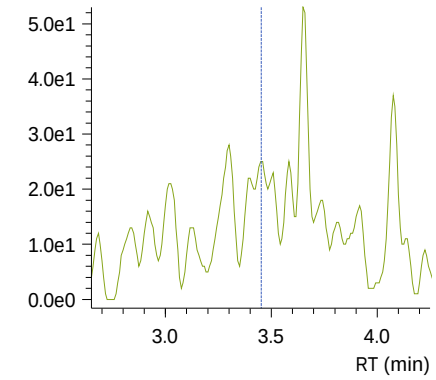
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 5.70e1



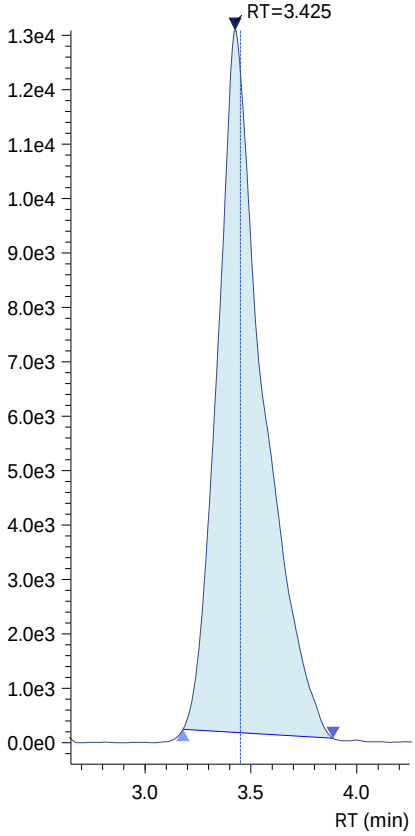
R1 101.00>85.00 (-) 5.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=194571 1.31e4
RT=3.425



Insight Report

Printed at 7/11/2024 11:39:02 AM

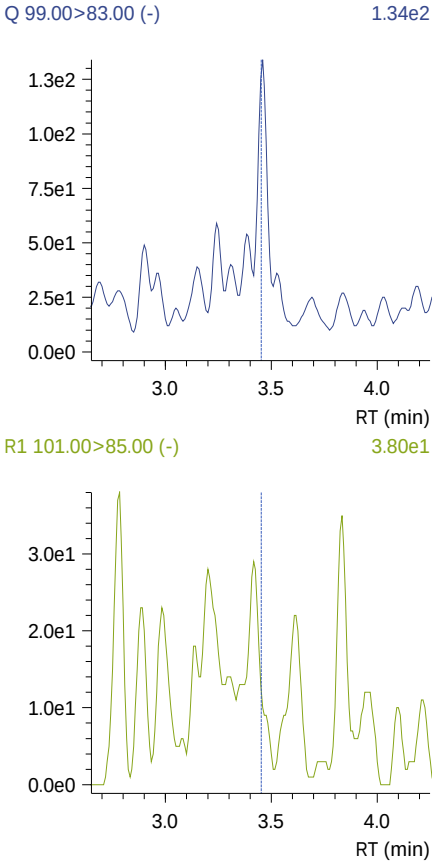
EQ2400375-01MB

Sample ID: EQ2400375-01
Date Acquired: 7/5/2024 1:51:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-009.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	196343	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.425	196343	196343	1.0000	ng/mL	----	----	

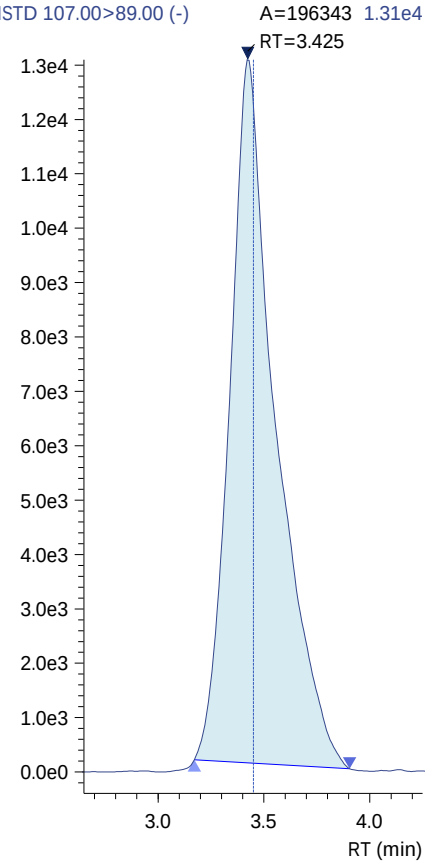
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

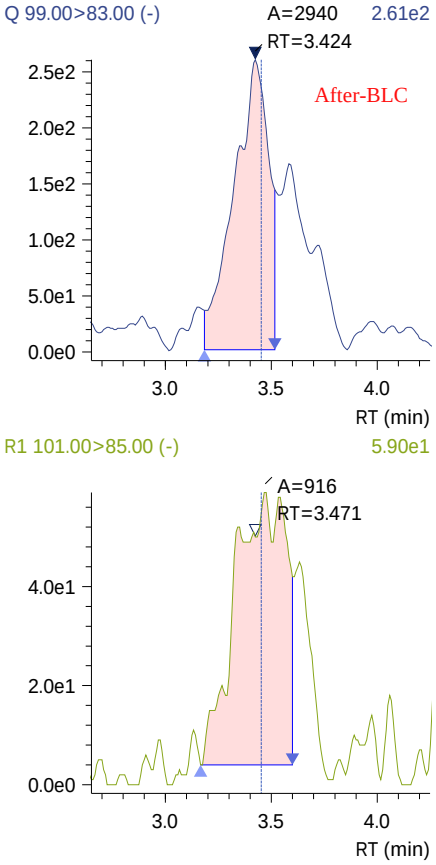
EQ2400375-02LCS

Sample ID: EQ2400375-02
Date Acquired: 7/5/2024 1:56:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.424	2940	191311	0.1052	ng/mL	101.00 >85.00	31.16	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.428	191311	191311	1.0000	ng/mL	----	----	

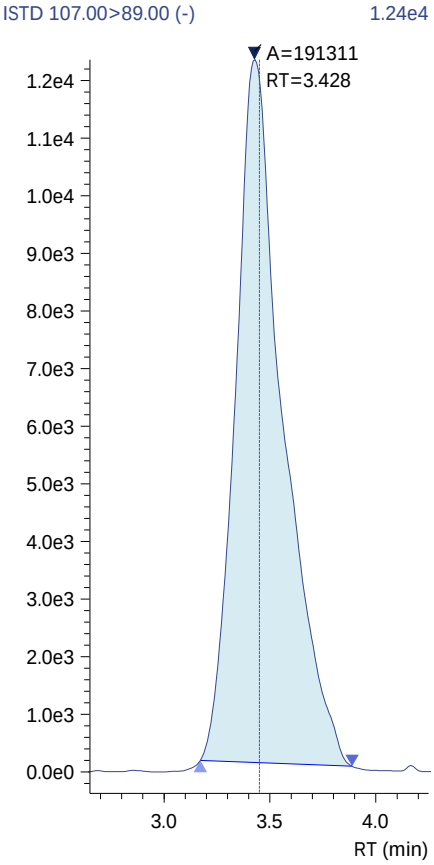
Perchlorate

Conc 0.1052
R#1 31.16 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

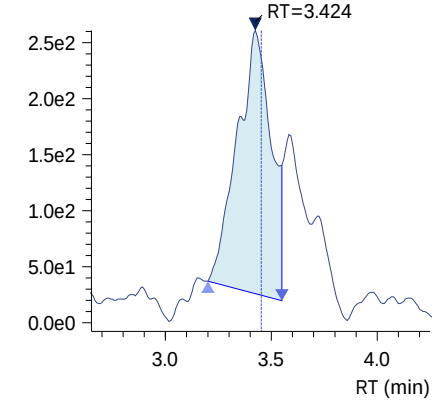
EQ2400375-02LCS

Sample ID: EQ2400375-02
Date Acquired: 7/5/2024 1:56:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

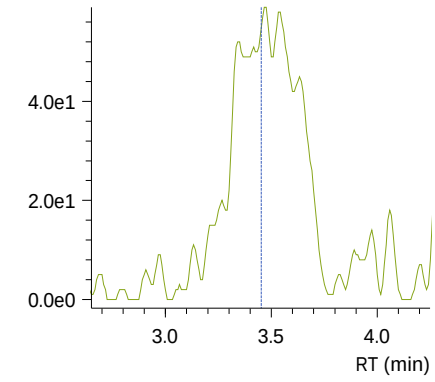
Perchlorate

Conc 0.0942
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=2630 2.61e2



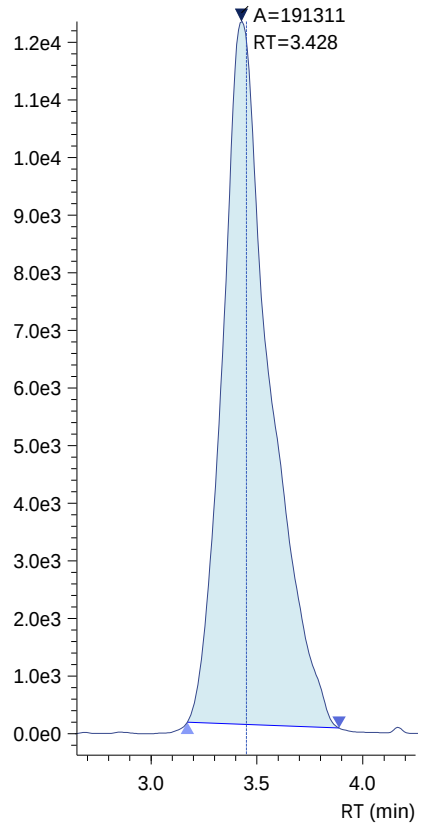
R1 101.00>85.00 (-) 5.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

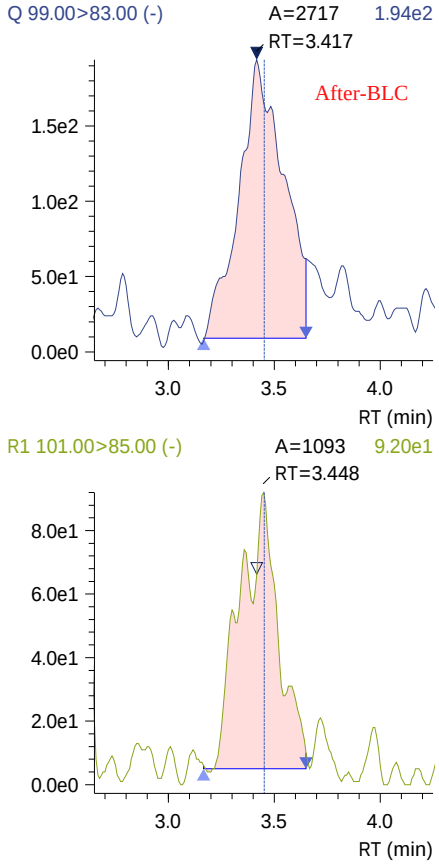
EQ2400375-03DLCS

Sample ID: EQ2400375-03
Date Acquired: 7/5/2024 2:02:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.417	2717	179660	0.1036	ng/mL	101.00 >85.00	40.22	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.425	179660	179660	1.0000	ng/mL	----	----	

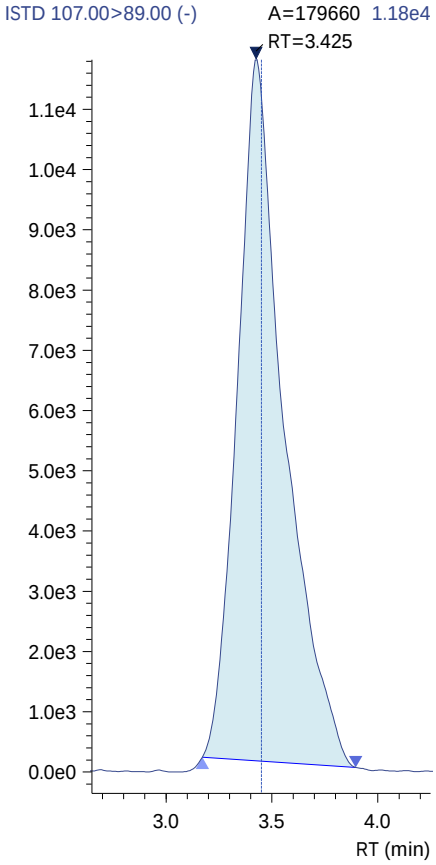
Perchlorate

Conc 0.1036
R#1 40.22 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

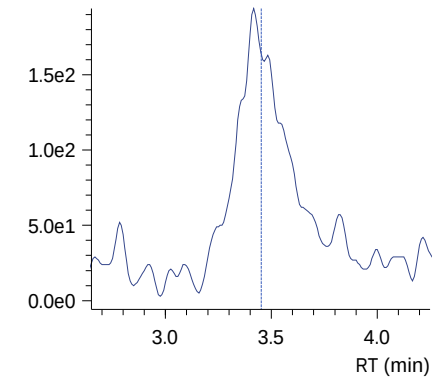
EQ2400375-03DLCS

Sample ID: EQ2400375-03
Date Acquired: 7/5/2024 2:02:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

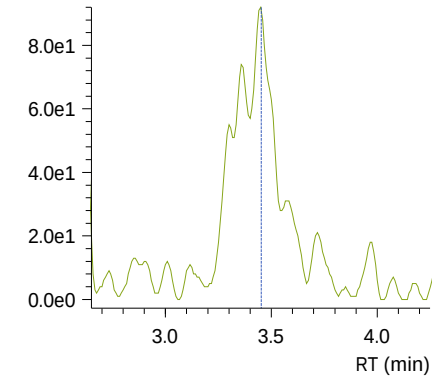
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.94e2



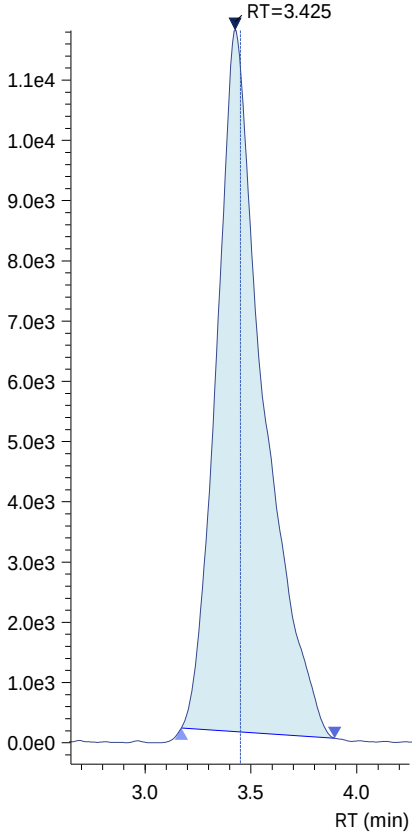
R1 101.00>85.00 (-) 9.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=179660 1.18e4
RT=3.425



Insight Report

Printed at 7/11/2024 11:39:02 AM

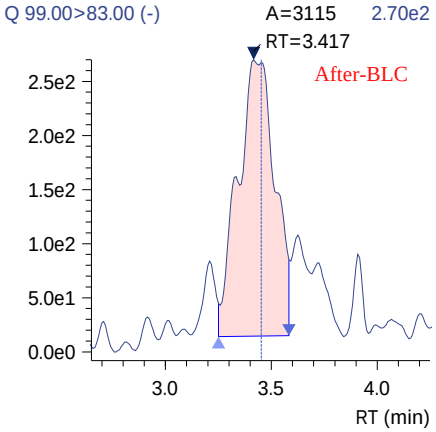
EQ2400375-04ICS

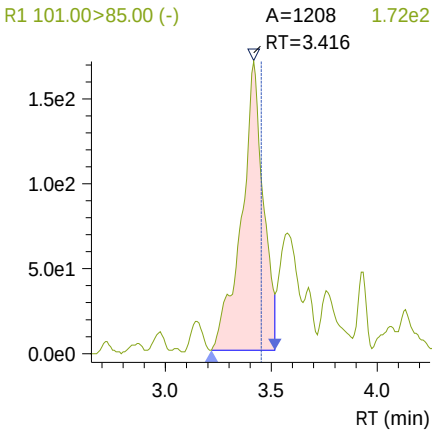
Sample ID: EQ2400375-04
Date Acquired: 7/5/2024 2:07:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.417	3115	199970	0.1067	ng/mL	101.00 >85.00	38.78	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.425	199970	199970	1.0000	ng/mL	----	----	

Perchlorate

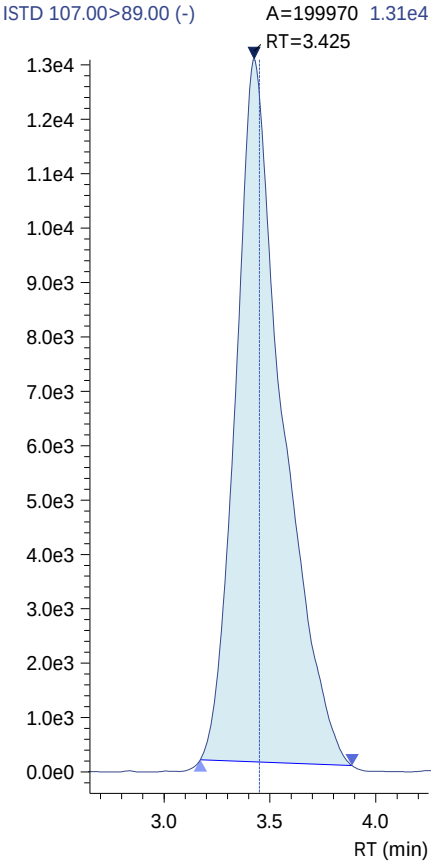
Conc 0.1067
R#1 38.78 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

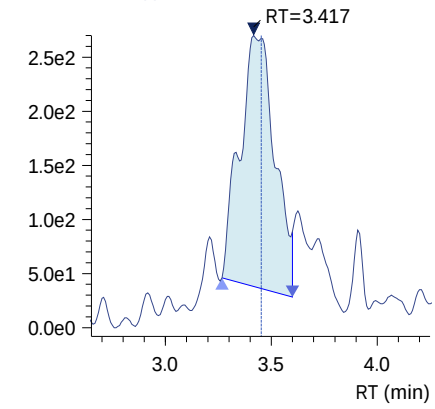
EQ2400375-04ICS

Sample ID: EQ2400375-04
Date Acquired: 7/5/2024 2:07:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 4

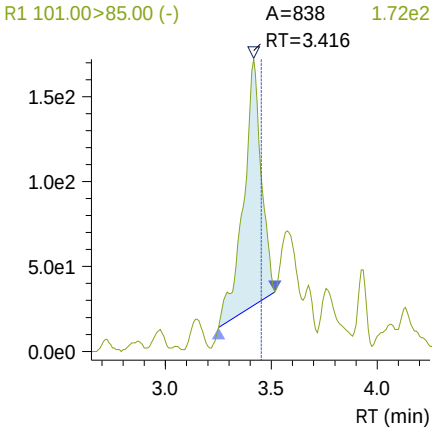
Perchlorate

Conc 0.0926
R#1 31.00 (35.24)

Q 99.00>83.00 (-) A=2703 2.70e2 RT=3.417



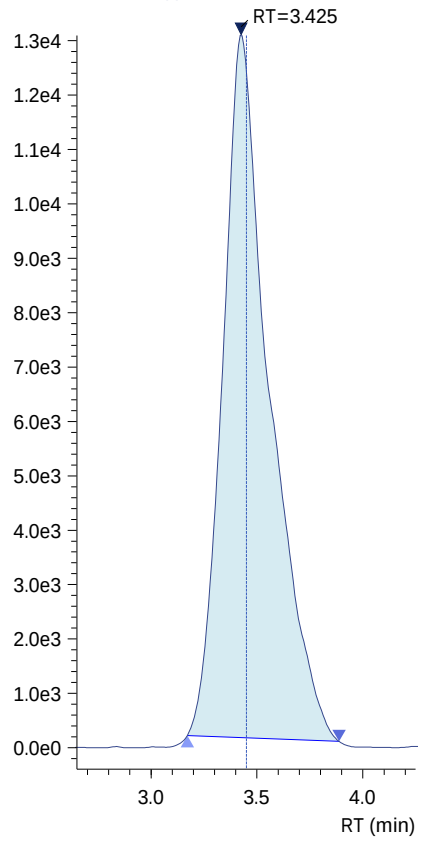
R1 101.00>85.00 (-) A=838 1.72e2 RT=3.416



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=199970 1.31e4 RT=3.425



Insight Report

Printed at 7/11/2024 11:39:02 AM

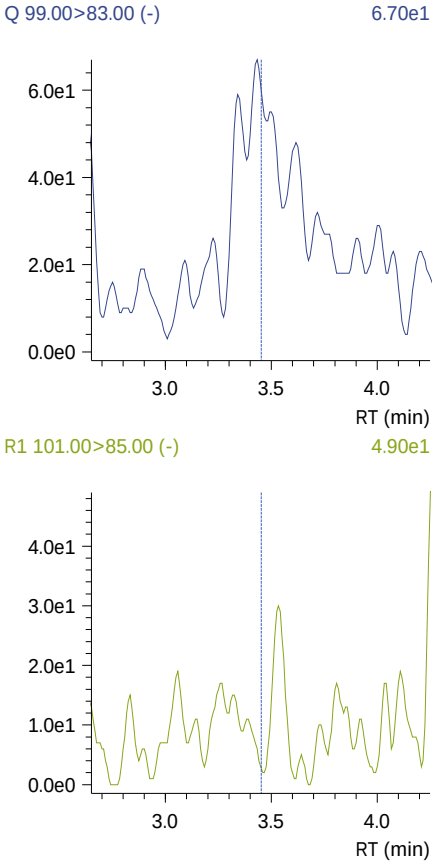
IB

Sample ID: IB
Date Acquired: 7/5/2024 2:14:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	203684	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.423	203684	203684	1.0000	ng/mL	----	----	

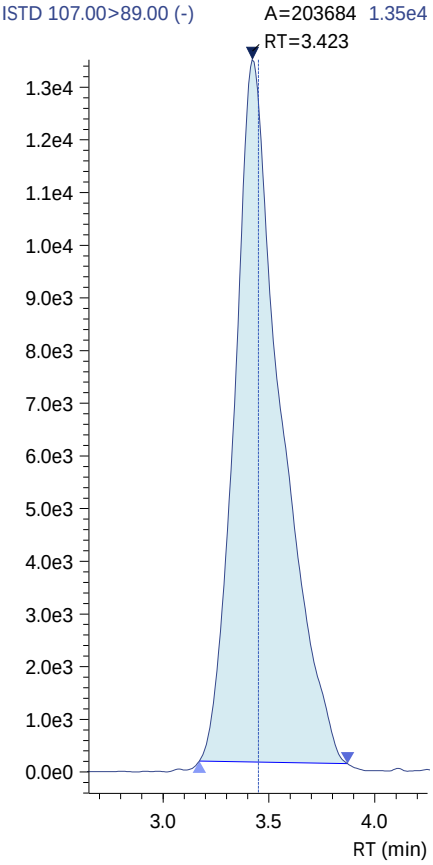
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

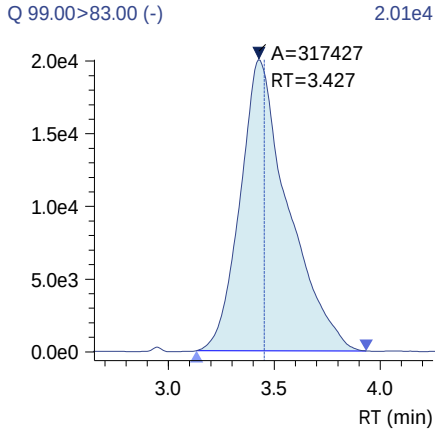
CCV

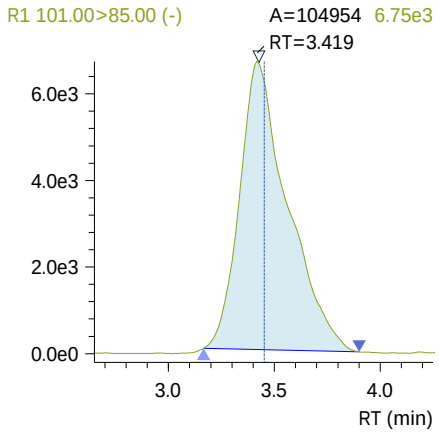
Sample ID: CCV
Date Acquired: 7/5/2024 2:19:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-014.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.427	317427	201802	10.7734	ng/mL	101.00 >85.00	33.06	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.430	201802	201802	1.0000	ng/mL	----	----	

Perchlorate

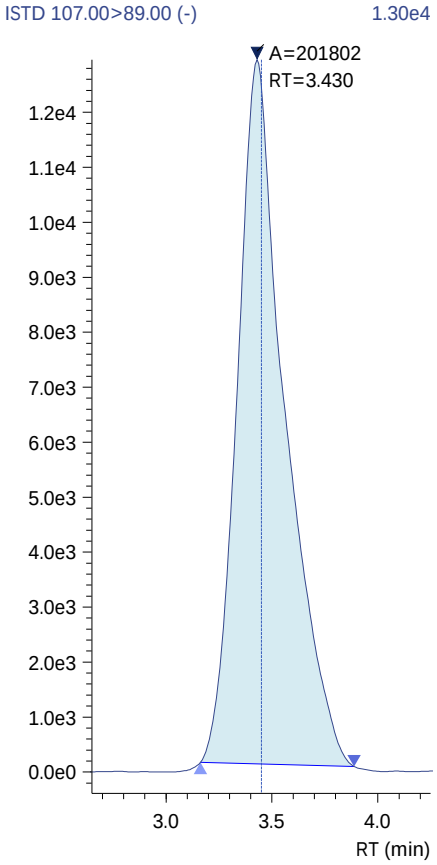
Conc 10.7734
R#1 33.06 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

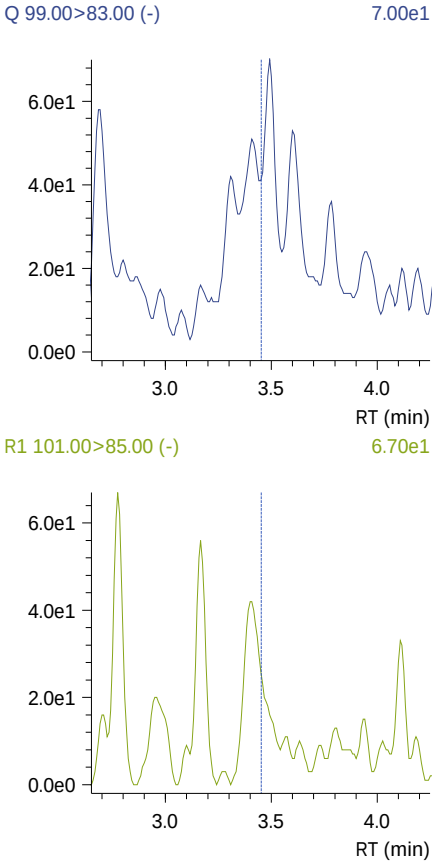
EQ2400374-01MB

Sample ID: EQ2400374-01MB
Date Acquired: 7/5/2024 2:25:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-015.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	198466	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.425	198466	198466	1.0000	ng/mL	----	----	

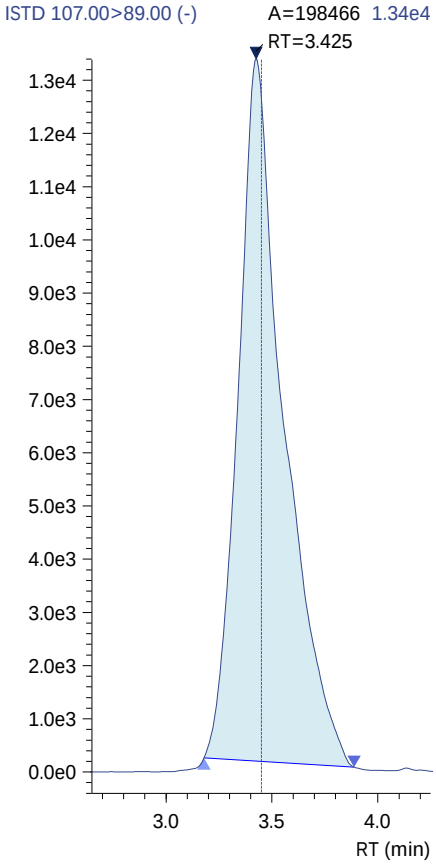
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

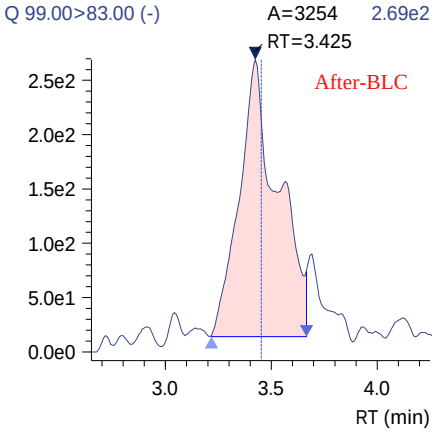
EQ2400374-04ICS

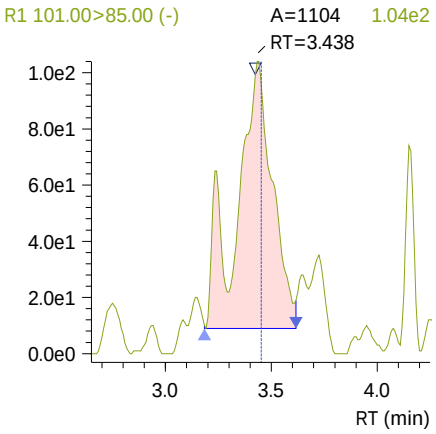
Sample ID: EQ2400374-04ICS
Date Acquired: 7/5/2024 2:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-018.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.425	3254	204744	0.1089	ng/mL	101.00 >85.00	33.92	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.426	204744	204744	1.0000	ng/mL	----	----	

Perchlorate

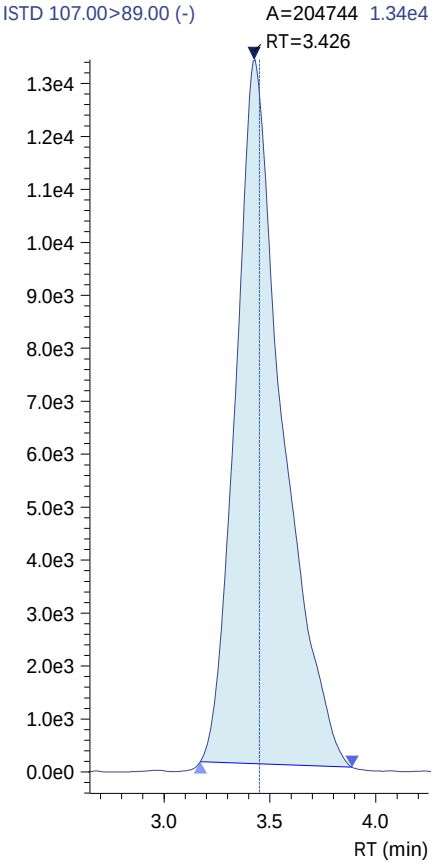
Conc 0.1089
R#1 33.92 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

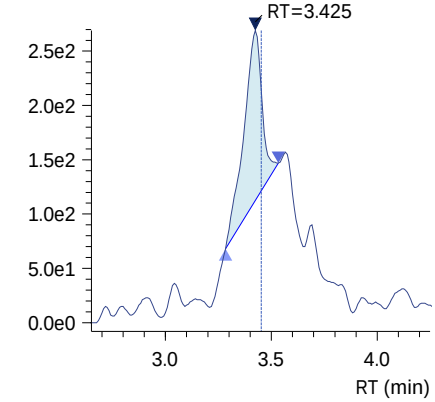
EQ2400374-04ICS

Sample ID: EQ2400374-04ICS
Date Acquired: 7/5/2024 2:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-018.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

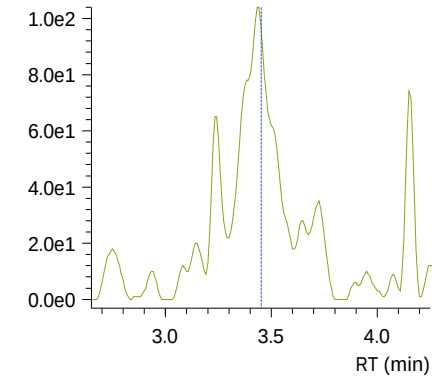
Perchlorate

Conc 0.0312
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=932 2.69e2 RT=3.425



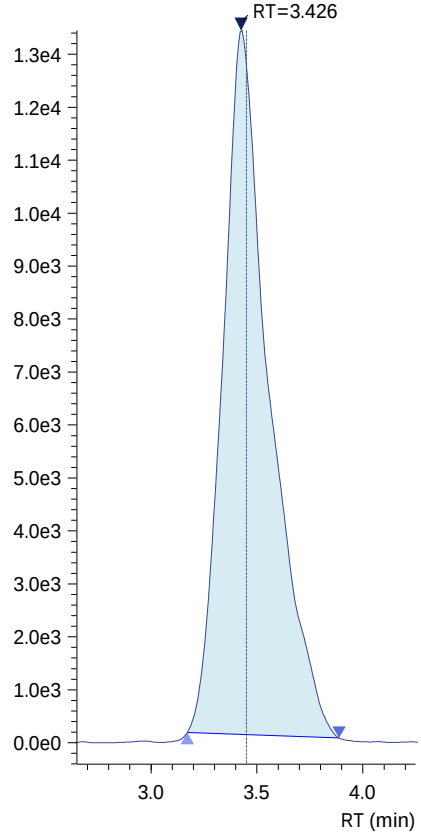
R1 101.00>85.00 (-) 1.04e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=204744 1.34e4 RT=3.426



Insight Report

Printed at 7/11/2024 11:39:02 AM

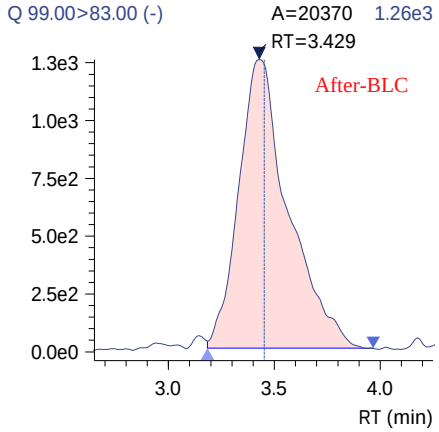
E2400734-001

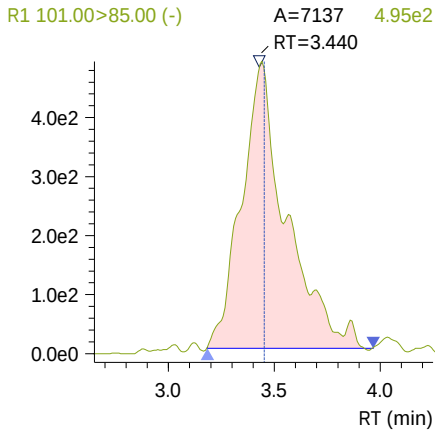
Sample ID: E2400734-001
Date Acquired: 7/5/2024 2:47:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-019.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.429	20370	203932	0.6841	ng/mL	101.00 >85.00	35.04	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.424	203932	203932	1.0000	ng/mL	----	----	

Perchlorate

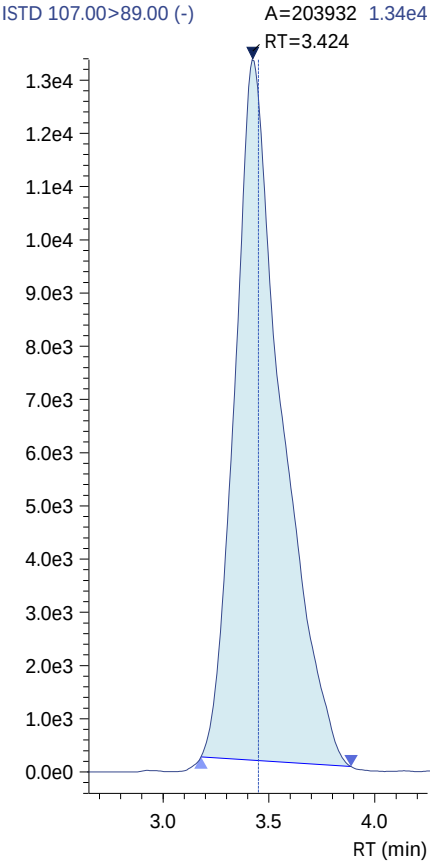
Conc 0.6841
R#1 35.04 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

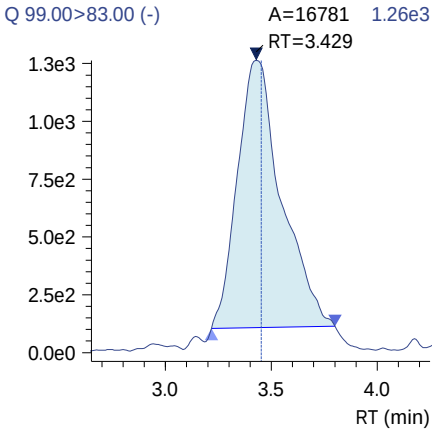
Printed at 7/11/2024 11:40:38 AM

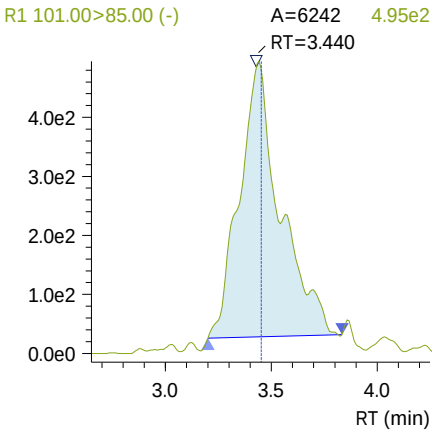
E2400734-001

Sample ID: E2400734-001
Date Acquired: 7/5/2024 2:47:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-019.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 3

Perchlorate

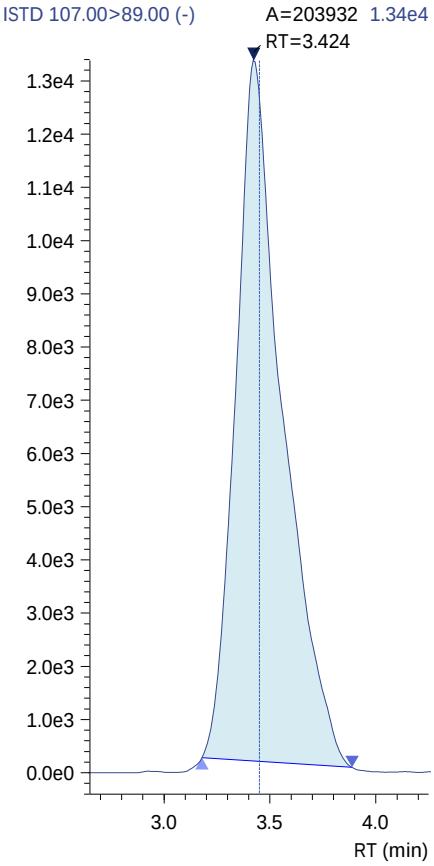
Conc 0.5636
R#1 37.20 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

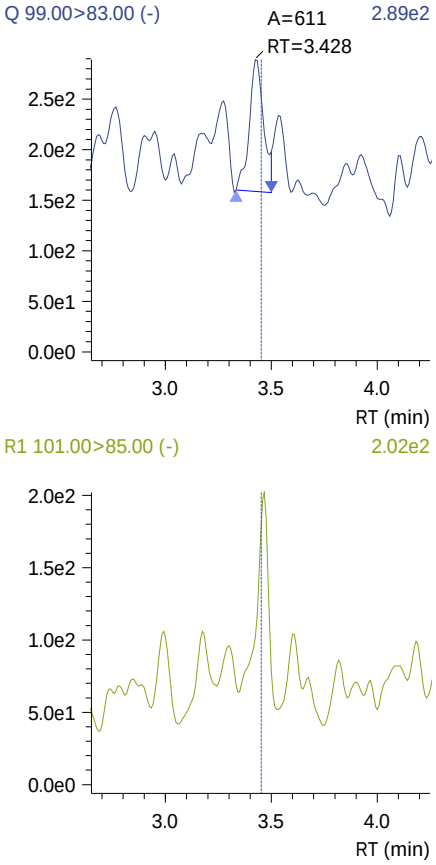
IB

Sample ID: IB
Date Acquired: 7/5/2024 3:20:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-025.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	207757	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.428	207757	207757	1.0000	ng/mL	----	----	

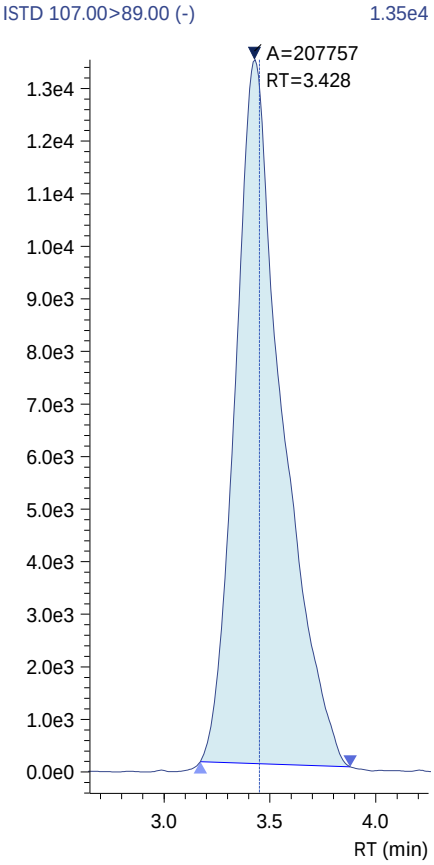
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

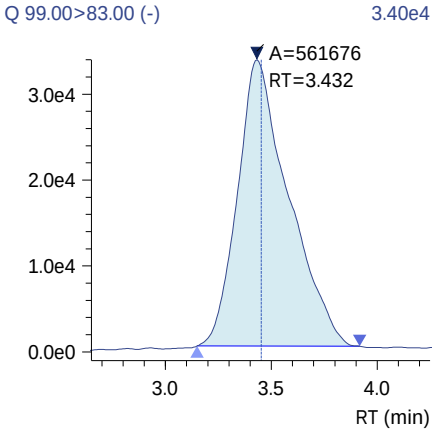
E2400734-009

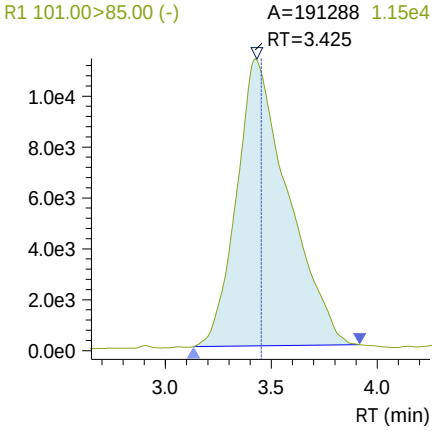
Sample ID: E2400734-009
Date Acquired: 7/5/2024 3:54:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-031.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.432	561676	210510	18.2745	ng/mL	101.00 >85.00	34.06	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.424	210510	210510	1.0000	ng/mL	----	----	

Perchlorate

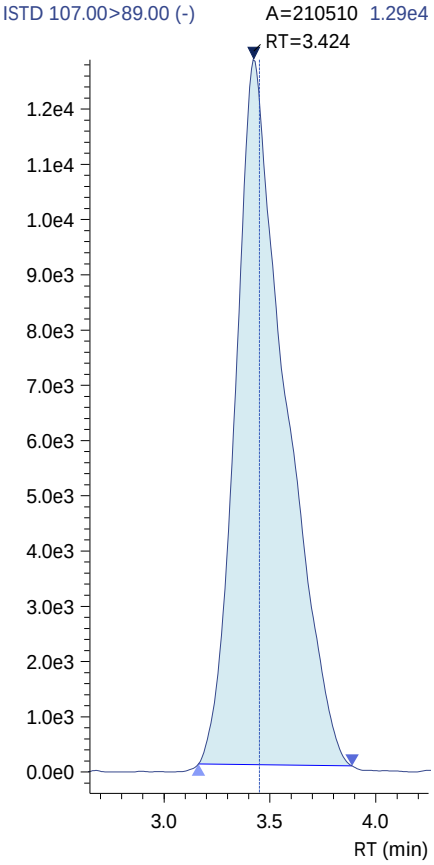
Conc 18.2745
R#1 34.06 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

E2400734-010

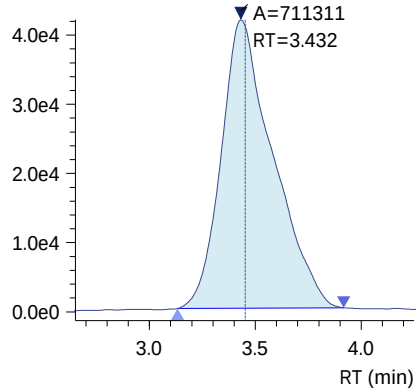
Sample ID: E2400734-010
Date Acquired: 7/5/2024 3:59:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-032.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.432	711311	204027	23.8784	ng/mL	101.00 >85.00	33.79	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.429	204027	204027	1.0000	ng/mL	----	----	

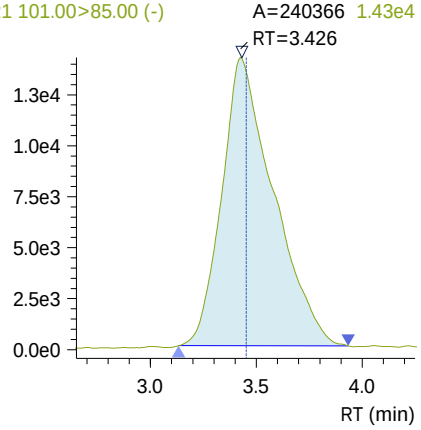
Perchlorate

Conc 23.8784
R#1 33.79 (35.24)

Q 99.00>83.00 (-) 4.22e4



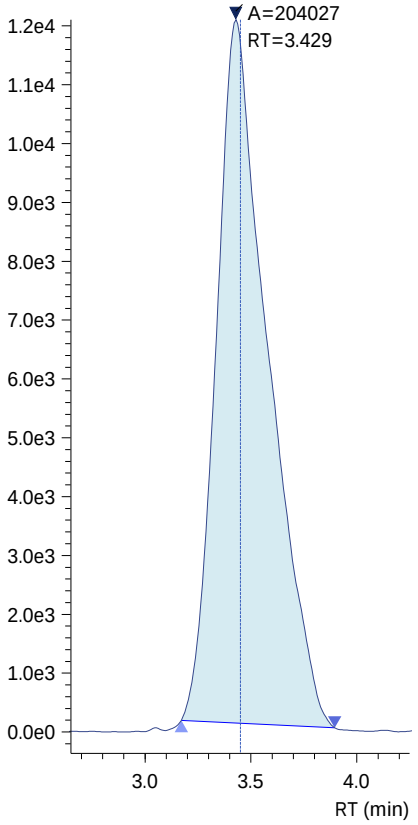
R1 101.00>85.00 (-) A=240366 1.43e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.21e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

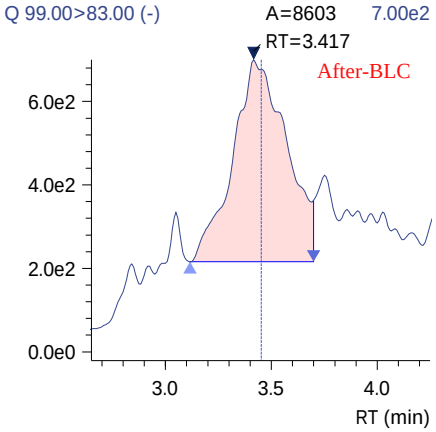
E2400734-011

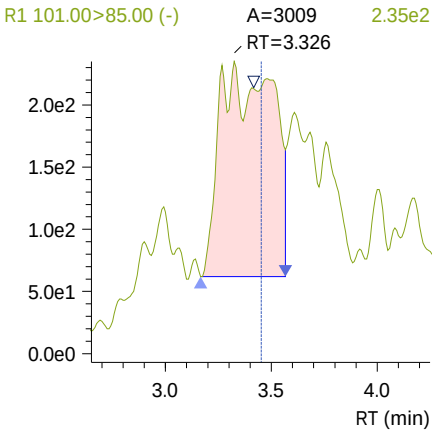
Sample ID: E2400734-011
Date Acquired: 7/5/2024 4:05:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-033.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.417	8603	219816	0.2680	ng/mL	101.00 >85.00	34.97	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.430	219816	219816	1.0000	ng/mL	----	----	

Perchlorate

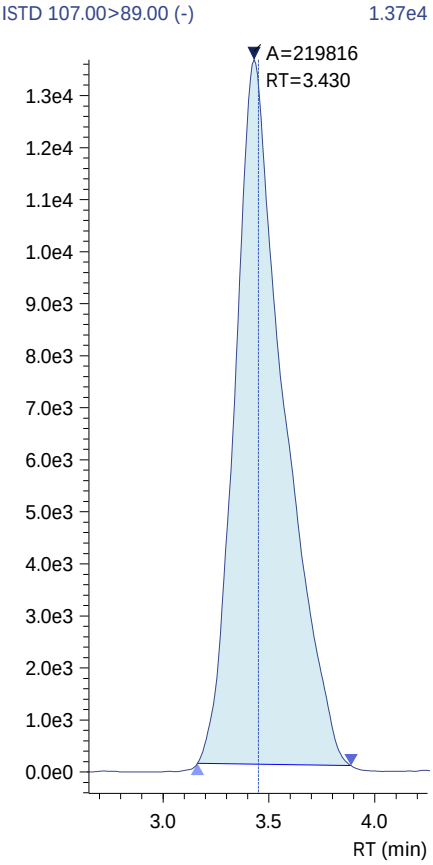
Conc 0.2680
R#1 34.97 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

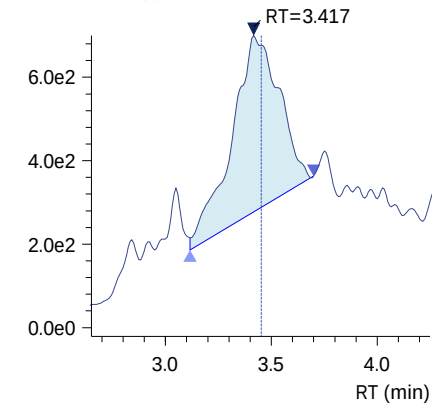
E2400734-011

Sample ID: E2400734-011
Date Acquired: 7/5/2024 4:05:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-033.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 3

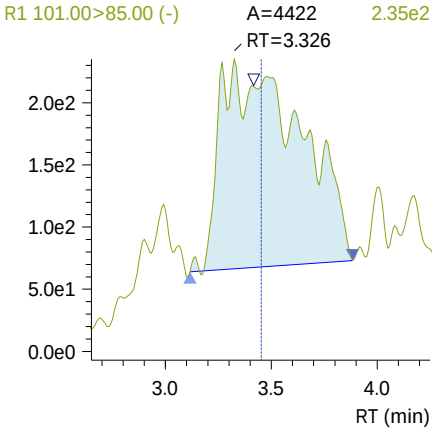
Perchlorate

Conc 0.2041
R#1 67.49 (35.24)

Q 99.00>83.00 (-) A=6552 7.00e2



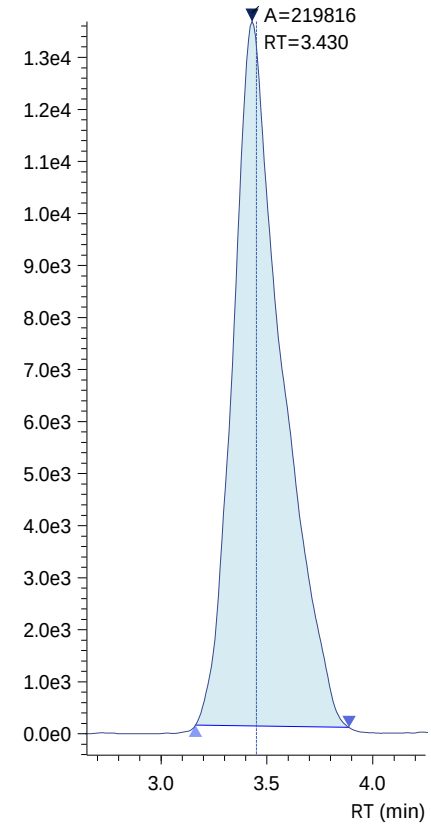
R1 101.00>85.00 (-) A=4422 2.35e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.37e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

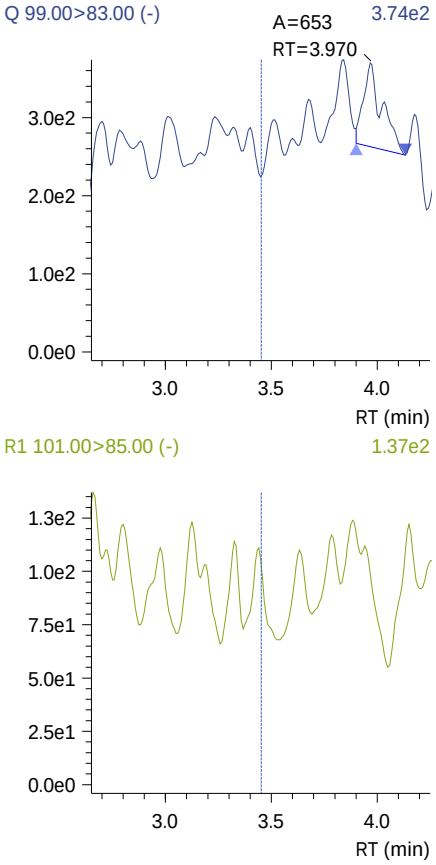
IB

Sample ID: IB
Date Acquired: 7/5/2024 4:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-037.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	201701	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.420	201701	201701	1.0000	ng/mL	----	----	

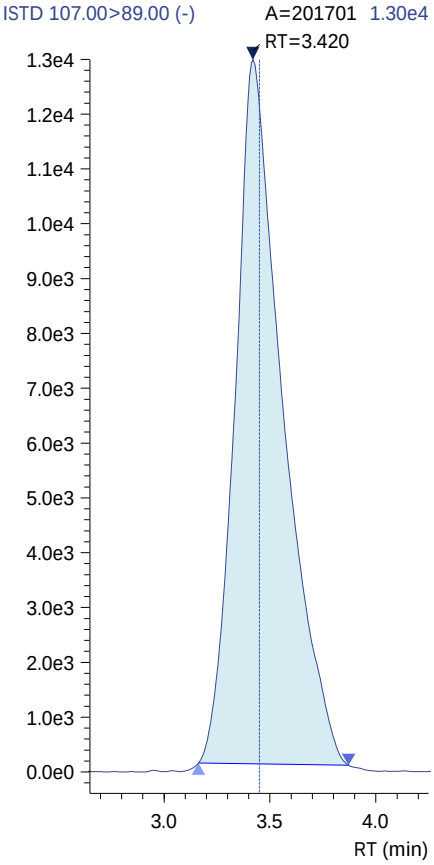
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

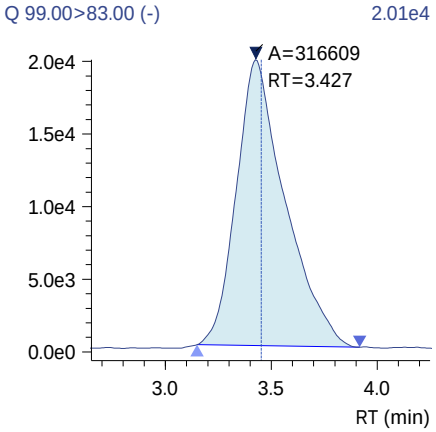
CCV

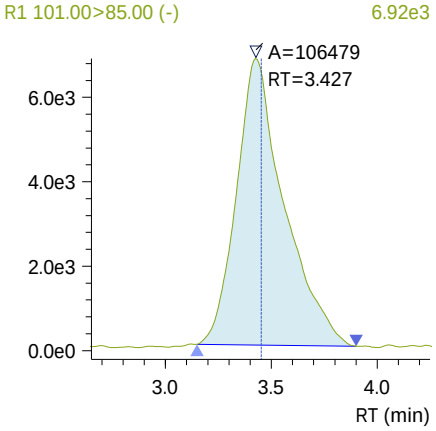
Sample ID: CCV
Date Acquired: 7/5/2024 4:32:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-038.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.427	316609	200200	10.8316	ng/mL	101.00 >85.00	33.63	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.423	200200	200200	1.0000	ng/mL	----	----	

Perchlorate

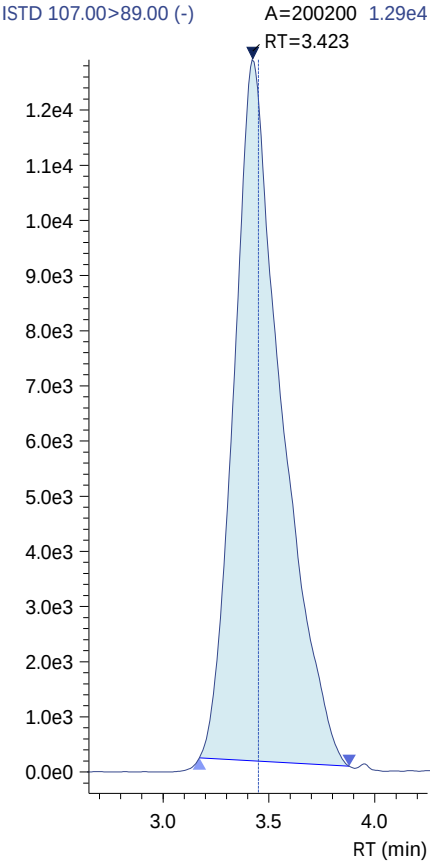
Conc 10.8316
R#1 33.63 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

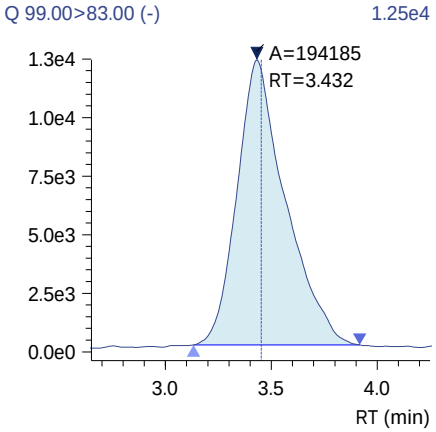
E2400734-015

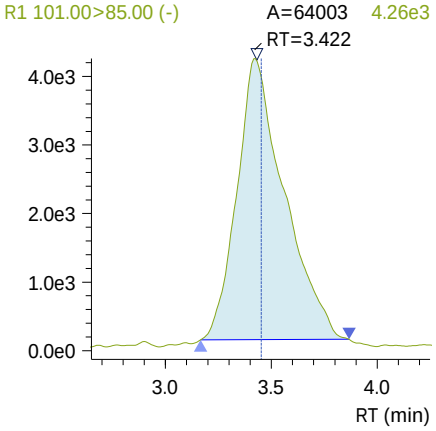
Sample ID: E2400734-015
Date Acquired: 7/5/2024 4:38:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-039.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.432	194185	196024	6.7848	ng/mL	101.00 >85.00	32.96	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.421	196024	196024	1.0000	ng/mL	----	----	

Perchlorate

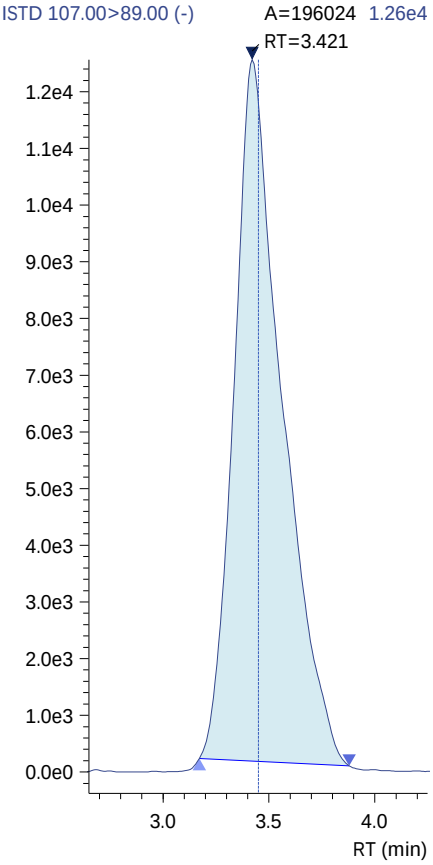
Conc 6.7848
R#1 32.96 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

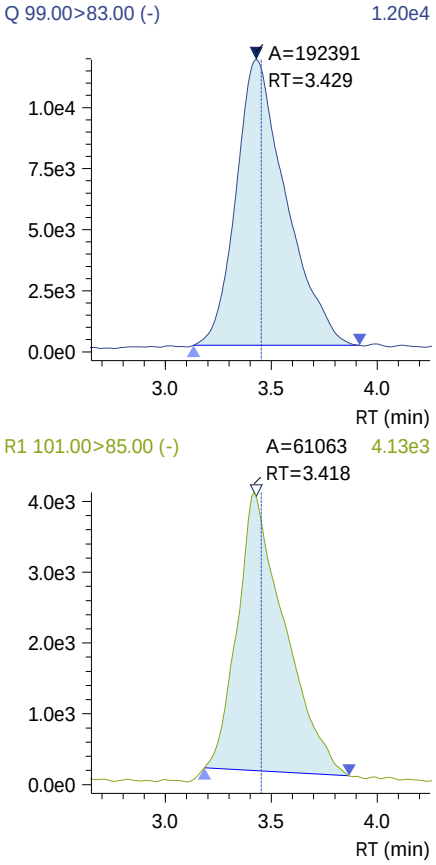
E2400734-016

Sample ID: E2400734-016
Date Acquired: 7/5/2024 4:44:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-040.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.429	192391	194511	6.7745	ng/mL	101.00 >85.00	31.74	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.425	194511	194511	1.0000	ng/mL	----	----	

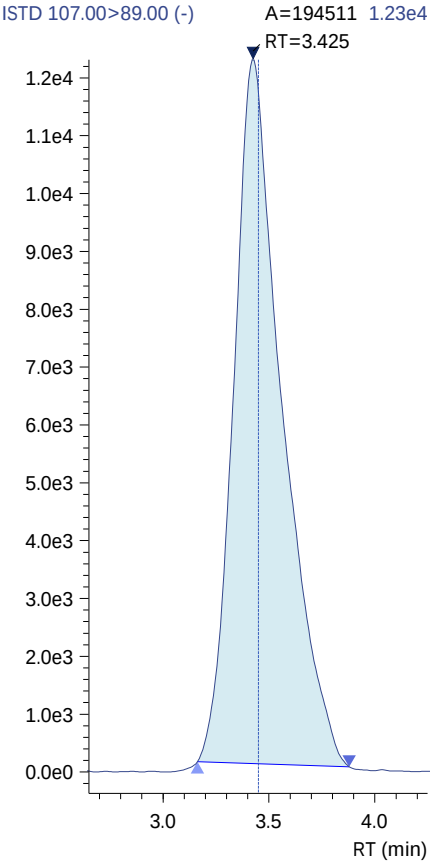
Perchlorate

Conc 6.7745
R#1 31.74 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

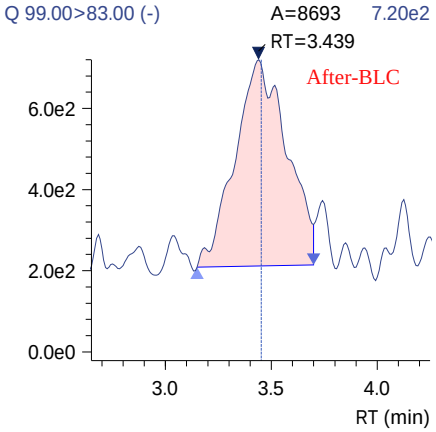
E2400734-018

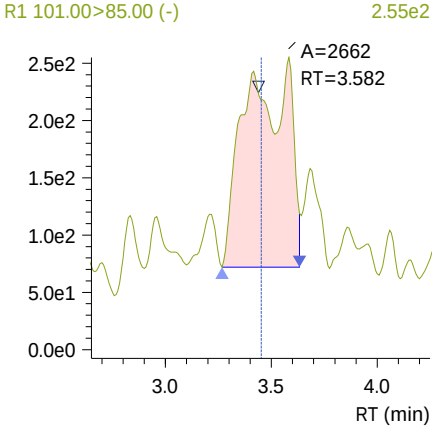
Sample ID: E2400734-018
Date Acquired: 7/5/2024 4:55:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-042.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.439	8693	198935	0.2993	ng/mL	101.00 >85.00	30.62	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.418	198935	198935	1.0000	ng/mL	----	----	

Perchlorate

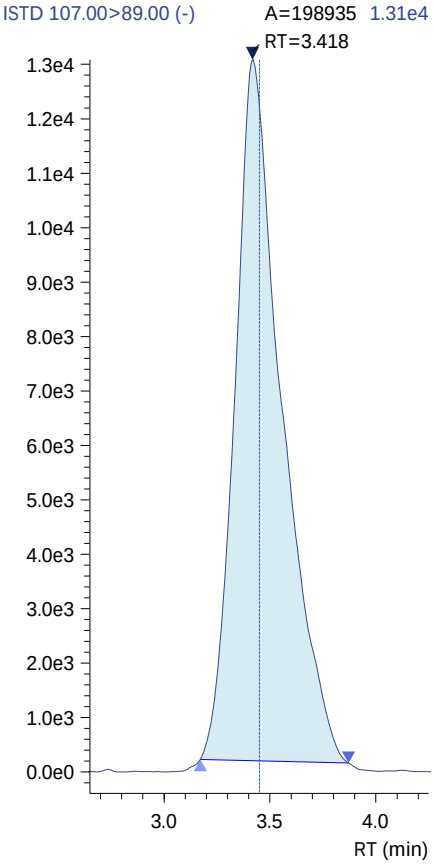
Conc 0.2993
R#1 30.62 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

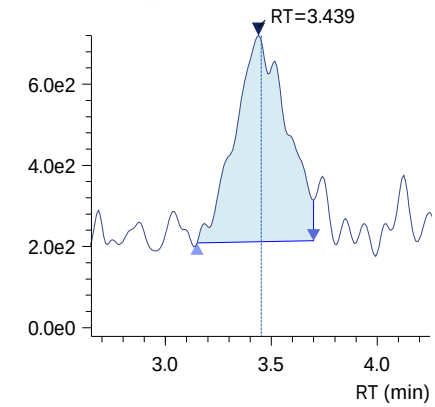
E2400734-018

Sample ID: E2400734-018
Date Acquired: 7/5/2024 4:55:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-042.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 3

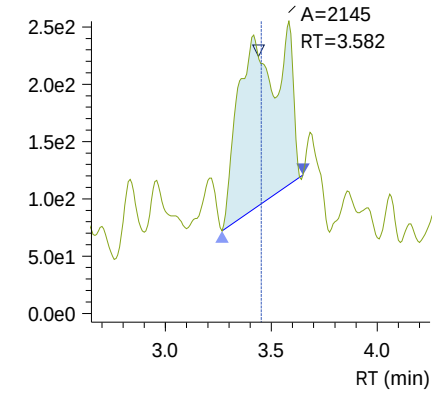
Perchlorate

Conc 0.2993
R#1 24.67 (35.24)

Q 99.00>83.00 (-) A=8693 7.20e2



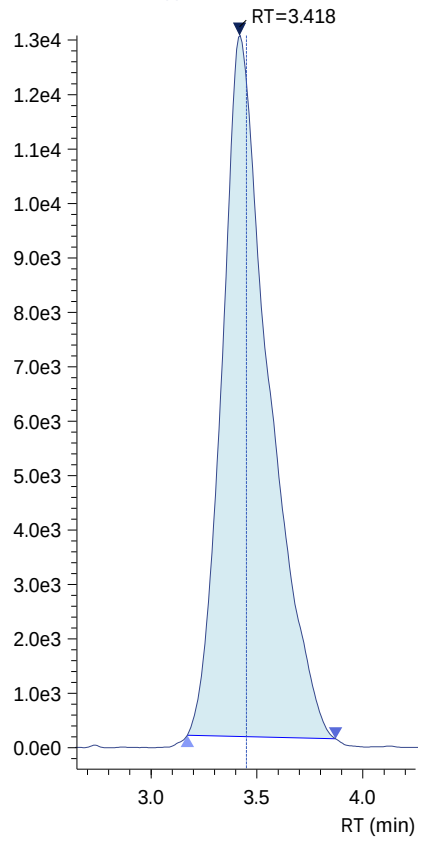
R1 101.00>85.00 (-) 2.55e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=198935 1.31e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

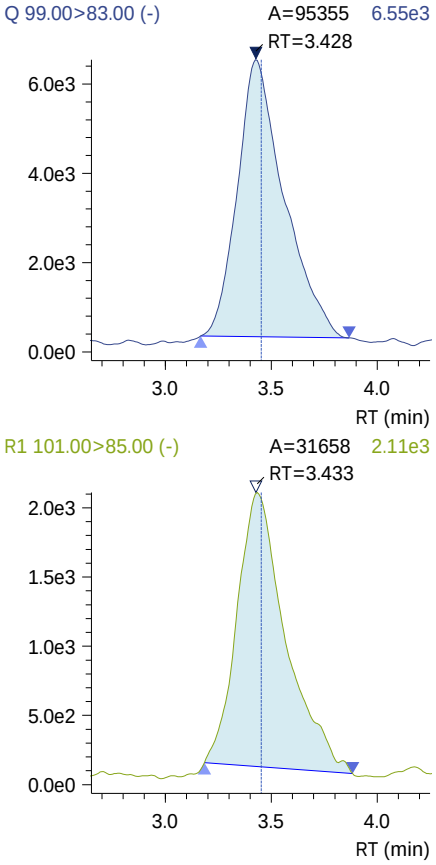
E2400734-019

Sample ID: E2400734-019
Date Acquired: 7/5/2024 5:00:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-043.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.428	95355	198291	3.2936	ng/mL	101.00 >85.00	33.20	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.427	198291	198291	1.0000	ng/mL	----	----	

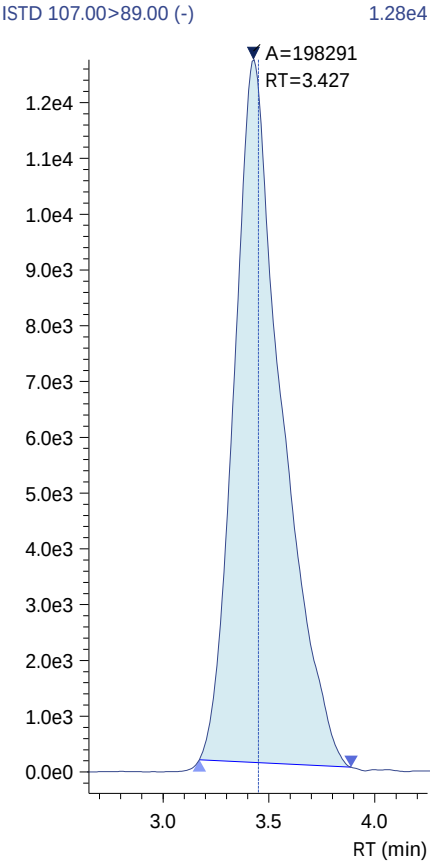
Perchlorate

Conc 3.2936
R#1 33.20 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

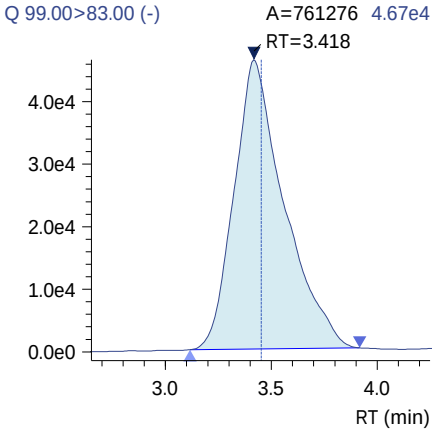
E2400734-022

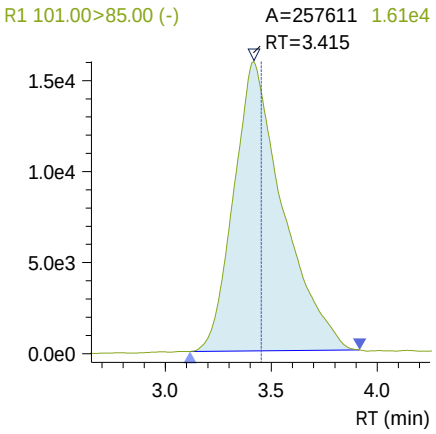
Sample ID: E2400734-022
Date Acquired: 7/5/2024 5:17:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-046.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.418	761276	222942	23.3875	ng/mL	101.00 >85.00	33.84	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.418	222942	222942	1.0000	ng/mL	----	----	

Perchlorate

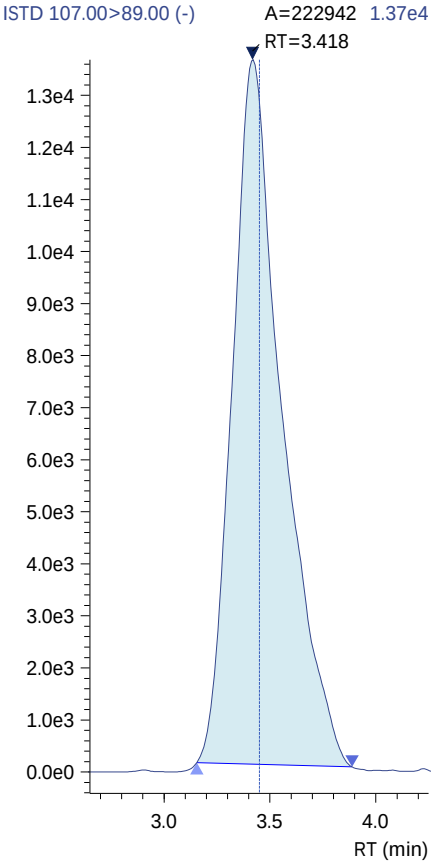
Conc 23.3875
R#1 33.84 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

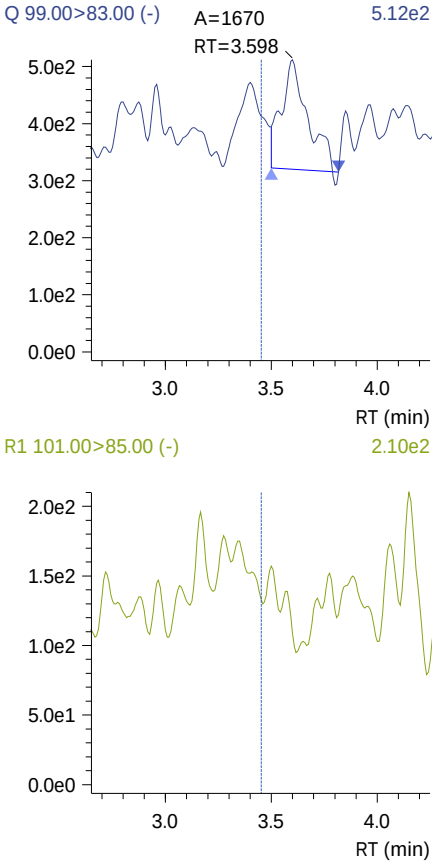
IB

Sample ID: IB
Date Acquired: 7/5/2024 5:33:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-049.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	198346	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.424	198346	198346	1.0000	ng/mL	----	----	

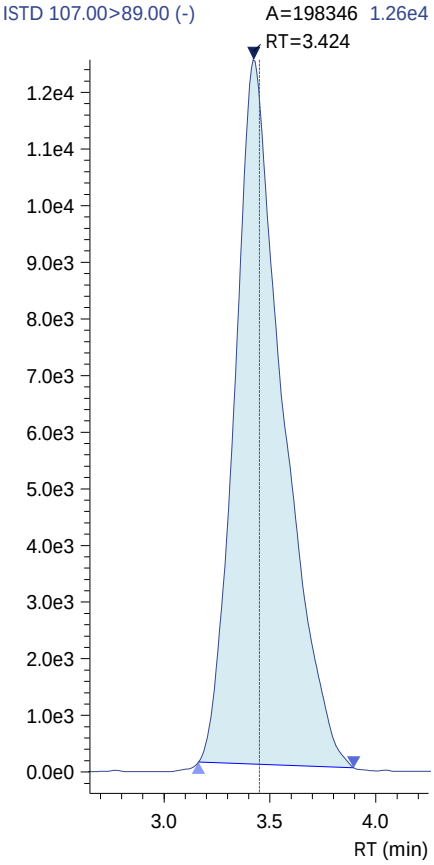
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

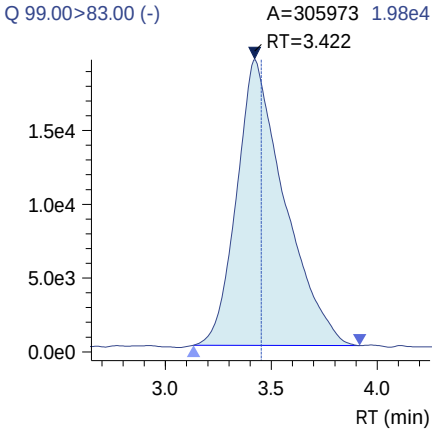
CCV

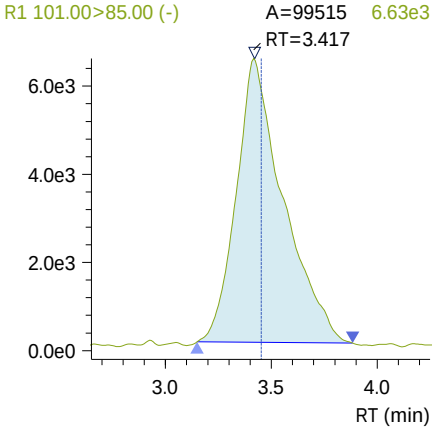
Sample ID: CCV
Date Acquired: 7/5/2024 5:39:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-050.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.422	305973	196021	10.6909	ng/mL	101.00 >85.00	32.52	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.424	196021	196021	1.0000	ng/mL	----	----	

Perchlorate

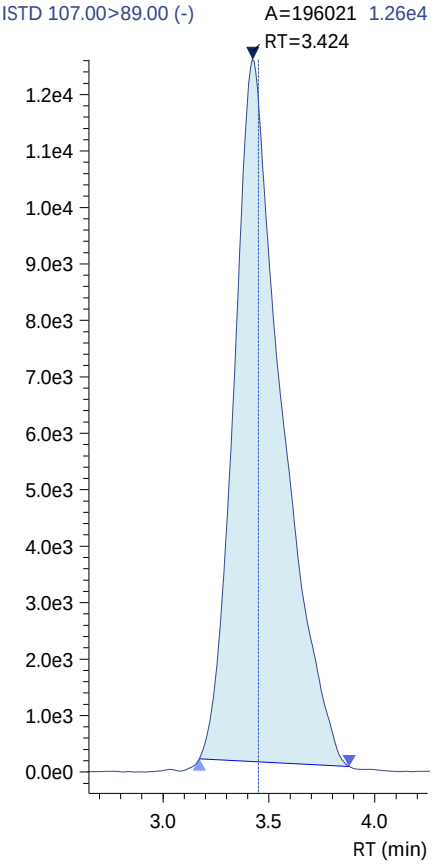
Conc 10.6909
R#1 32.52 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:12 AM

Method File: I:\LCMS01\DATA\20240710\20240710.lcm
Project File: I:\LCMS01\DATA\20240710\20240710.damlp

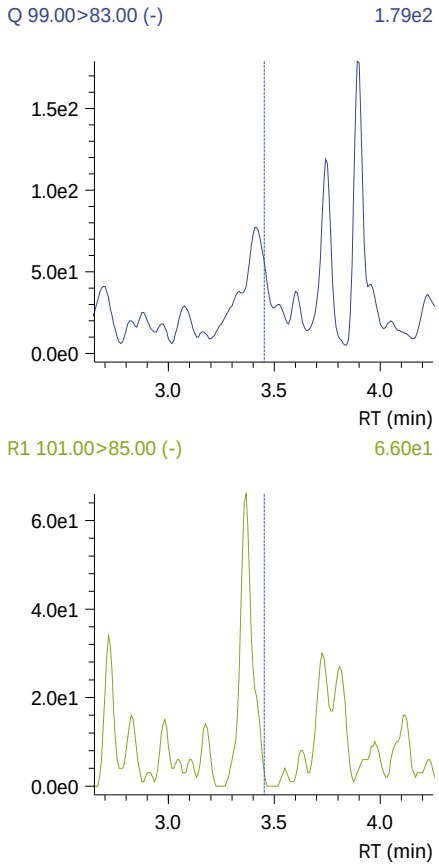
IB

Sample ID: IB
Date Acquired: 7/10/2024 1:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	149115	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.409	149115	149115	1.0000	ng/mL	----	----	

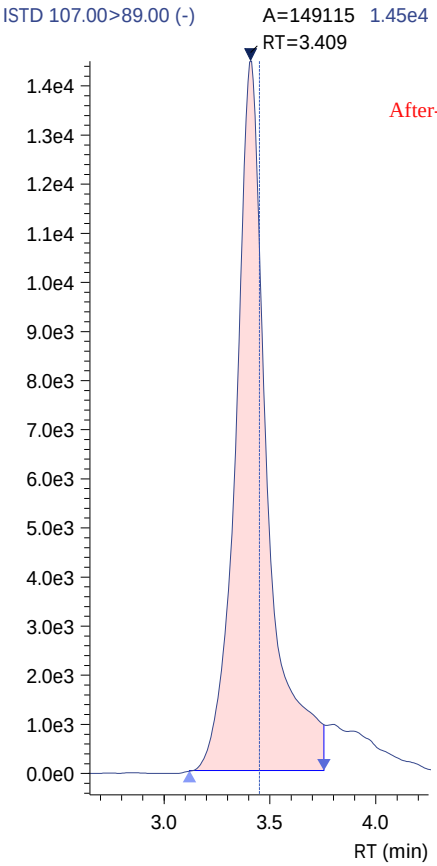
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 11:51:53 AM

Method File: I:\LCMS01\DATA\20240710\20240710.lcm
Project File: I:\LCMS01\DATA\20240710\20240710.damlp

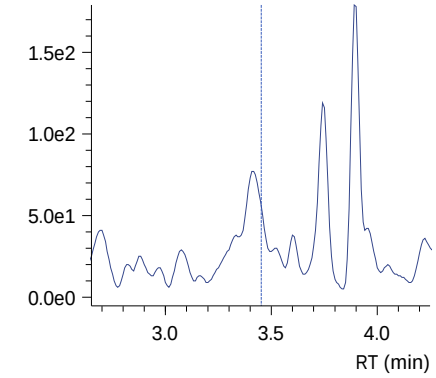
IB

Sample ID: IB
Date Acquired: 7/10/2024 1:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

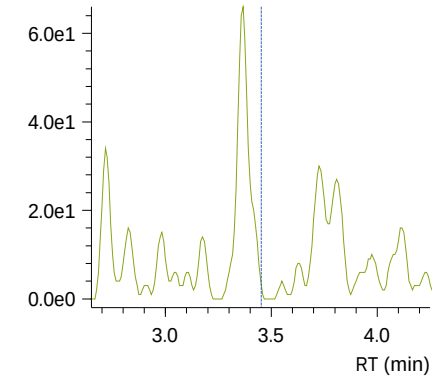
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.79e2



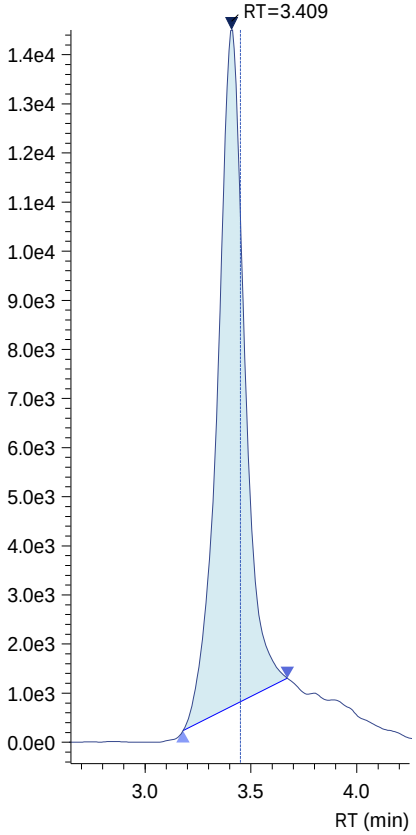
R1 101.00>85.00 (-) 6.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=122602 1.45e4
RT=3.409



Insight Report

Printed at 7/11/2024 11:51:12 AM

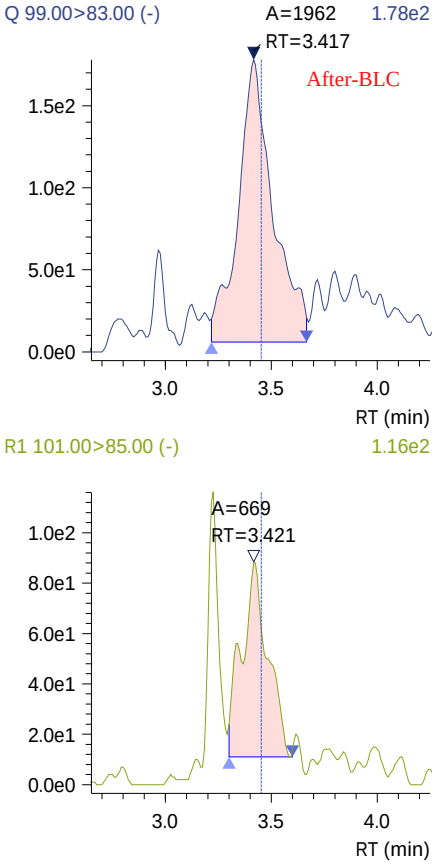
ICS

Sample ID: ICS
Date Acquired: 7/10/2024 1:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-002.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.417	1962	153744	0.0874	ng/mL	101.00 >85.00	34.08	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.406	153744	153744	1.0000	ng/mL	----	----	

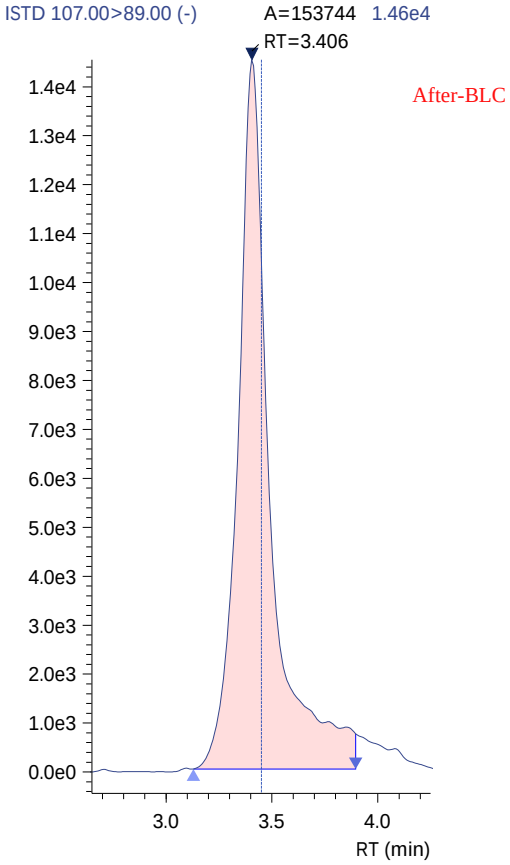
Perchlorate

Conc 0.0874
R#1 34.08 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

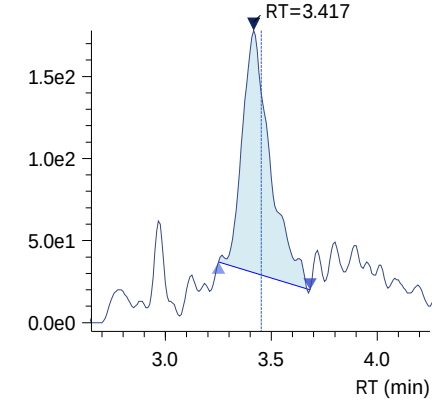
ICS

Sample ID: ICS
Date Acquired: 7/10/2024 1:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-002.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

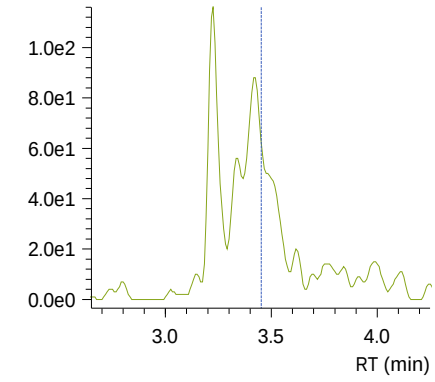
Perchlorate

Conc 0.0778
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1346 1.78e2 RT=3.417



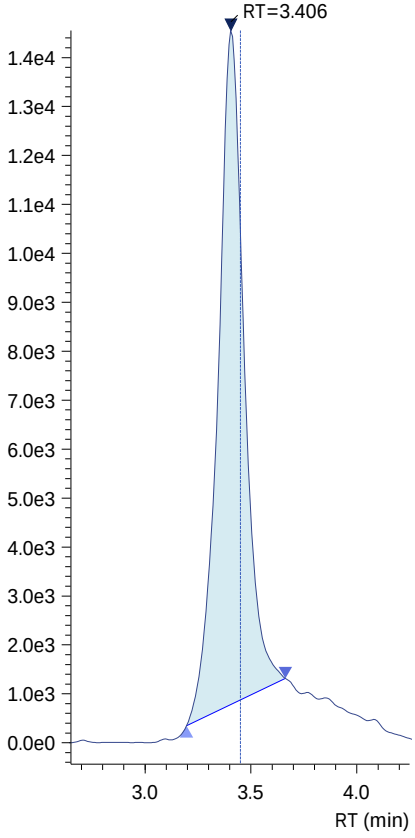
R1 101.00>85.00 (-) 1.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=118460 1.46e4 RT=3.406



Insight Report

Printed at 7/11/2024 11:51:12 AM

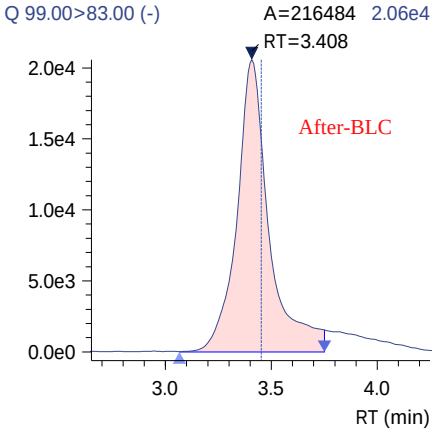
CCV

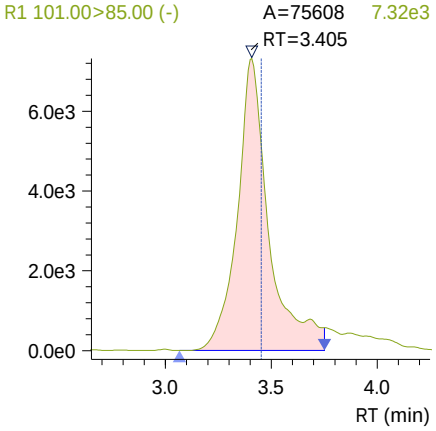
Sample ID: CCV
Date Acquired: 7/10/2024 1:45:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.408	216484	152163	9.7443	ng/mL	101.00 >85.00	34.92	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.403	152163	152163	1.0000	ng/mL	----	----	

Perchlorate

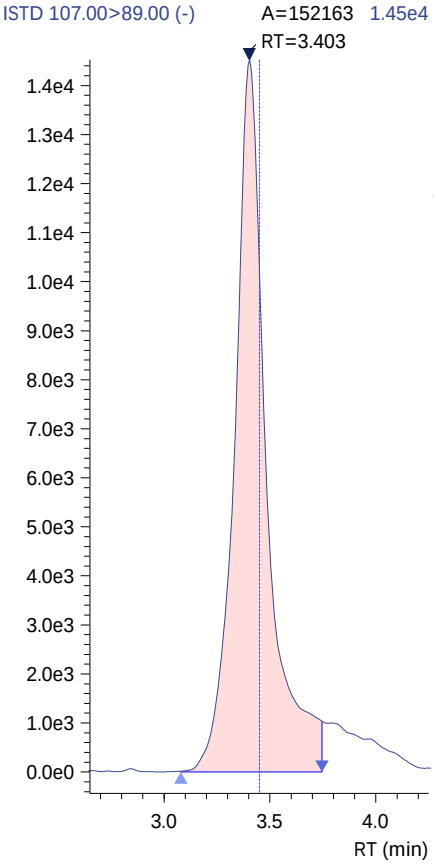
Conc 9.7443
R#1 34.92 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

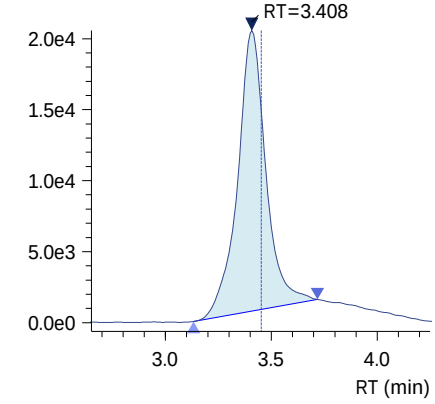
CCV

Sample ID: CCV
Date Acquired: 7/10/2024 1:45:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

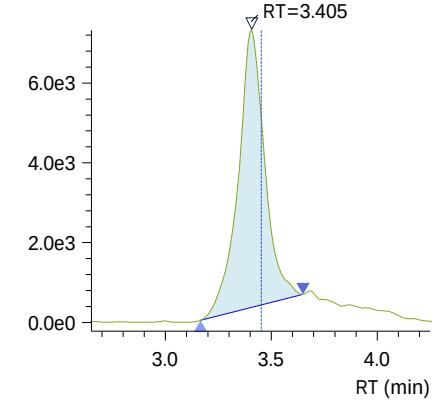
Perchlorate

Conc 10.1836
R#1 33.07 (35.24)

Q 99.00>83.00 (-) A=183225 2.06e4 RT=3.408



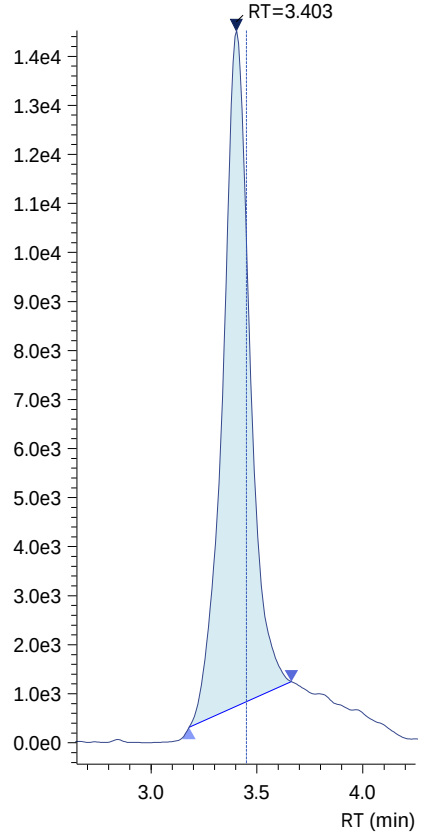
R1 101.00>85.00 (-) A=60592 7.32e3 RT=3.405



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=123230 1.45e4 RT=3.403



Insight Report

Printed at 7/11/2024 11:51:12 AM

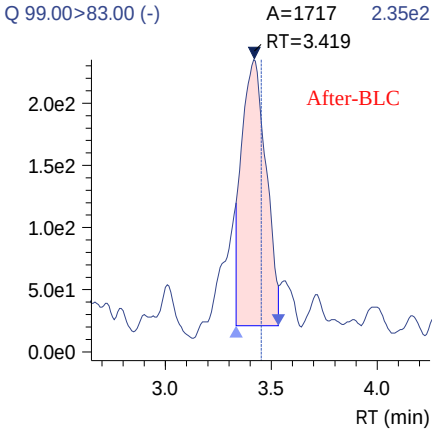
LODV

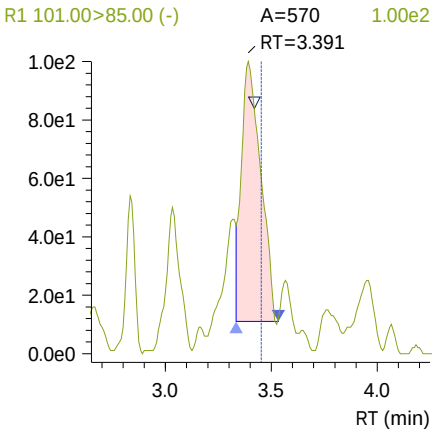
Sample ID: LODV
Date Acquired: 7/10/2024 1:50:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.419	1717	198887	0.0591	ng/mL	101.00 >85.00	33.16	24.17 -44.88
Sodium Perchlorate-18O4 _IS	M	3.404	1988 87	198887	1.0000	ng/mL	----	----	

Perchlorate

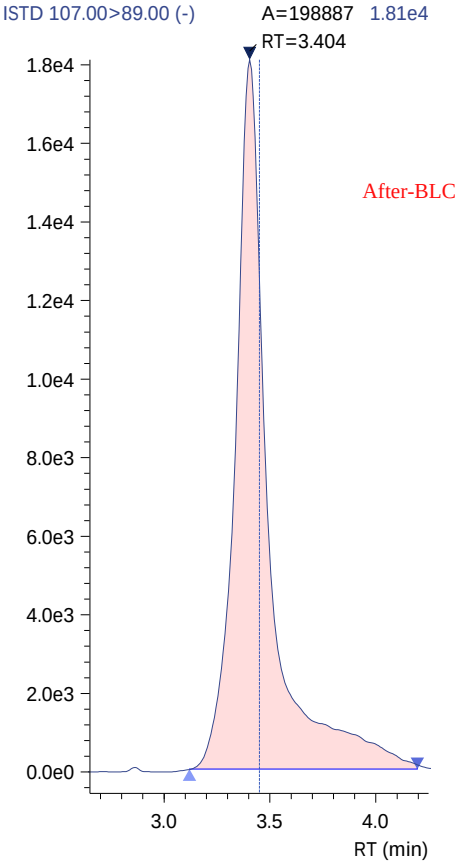
Conc 0.0591
R#1 33.16 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

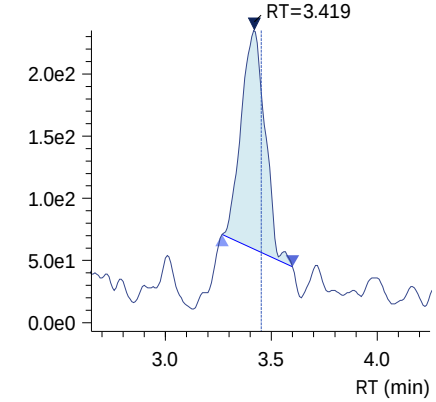
LODV

Sample ID: LODV
Date Acquired: 7/10/2024 1:50:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

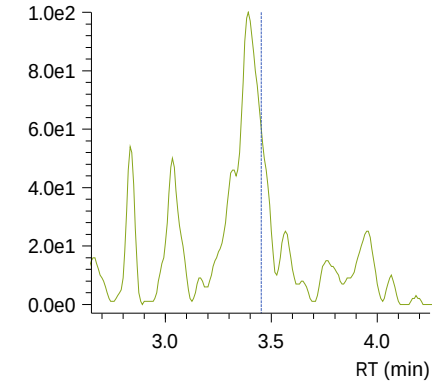
Perchlorate

Conc 0.0609
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1376 2.35e2 RT=3.419



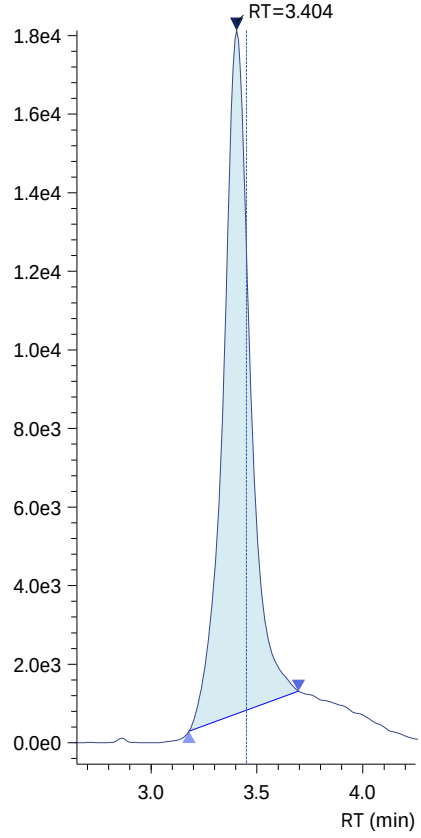
R1 101.00>85.00 (-) 1.00e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=154812 1.81e4 RT=3.404



Insight Report

Printed at 7/11/2024 11:51:12 AM

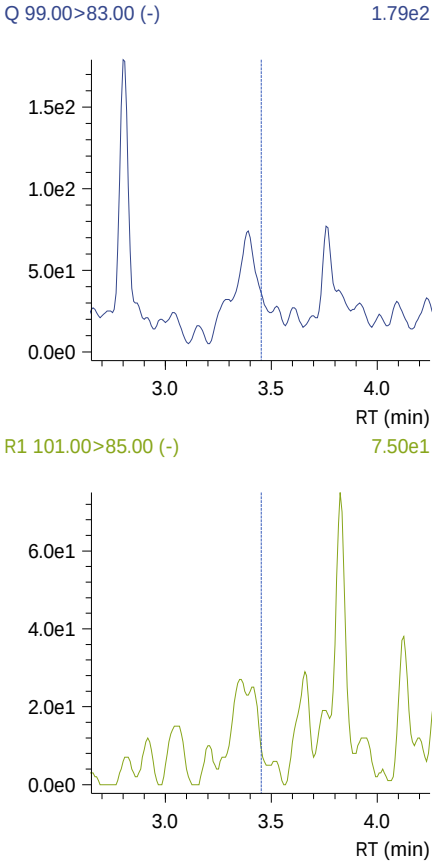
IB

Sample ID: IB
Date Acquired: 7/10/2024 1:56:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	168115	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	168115	168115	1.0000	ng/mL	----	----	

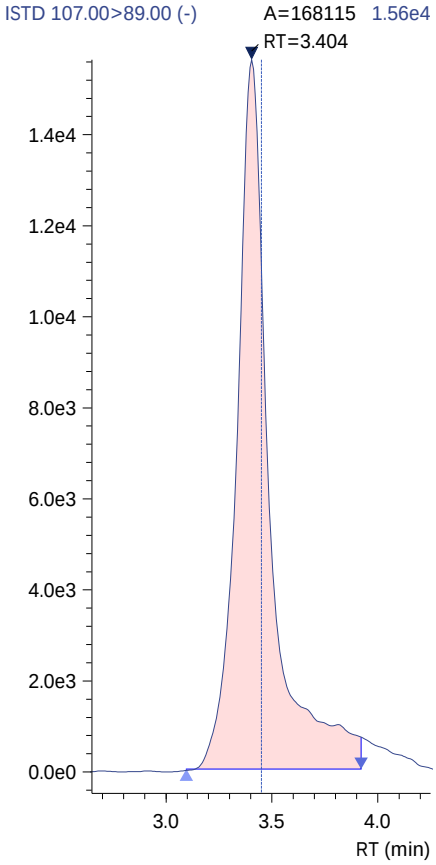
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 11:51:53 AM

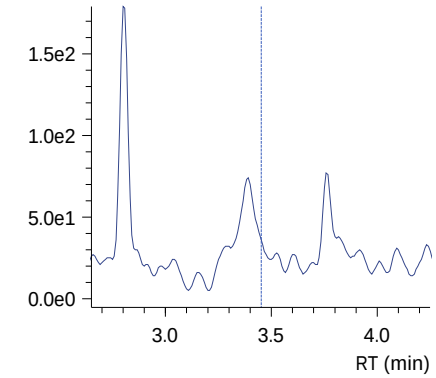
IB

Sample ID: IB
Date Acquired: 7/10/2024 1:56:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

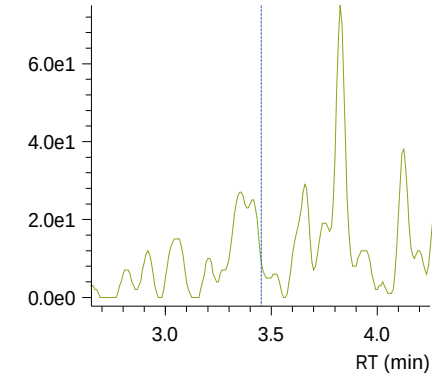
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.79e2



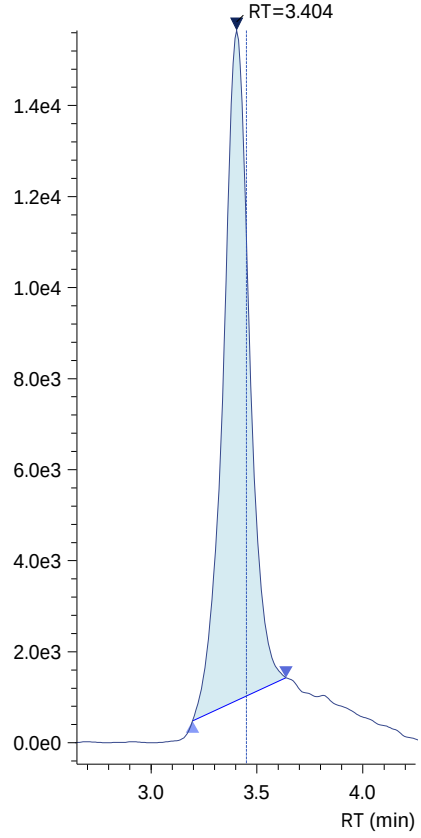
R1 101.00>85.00 (-) 7.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=127252 1.56e4
RT=3.404



Insight Report

Printed at 7/11/2024 11:51:12 AM

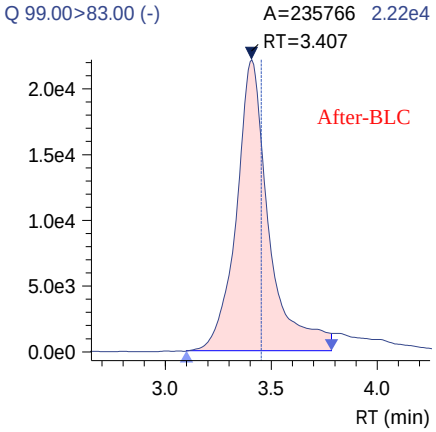
CCV

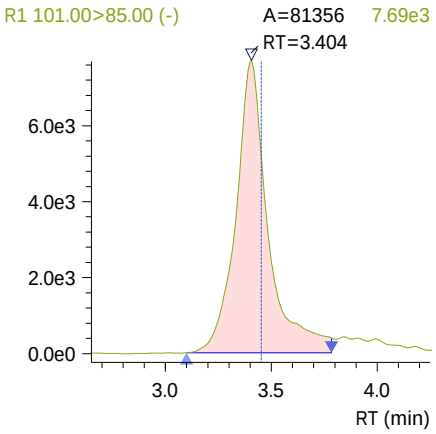
Sample ID: CCV
Date Acquired: 7/10/2024 3:33:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.407	235766	164410	9.8217	ng/mL	101.00 >85.00	34.51	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.405	164410	164410	1.0000	ng/mL	----	----	

Perchlorate

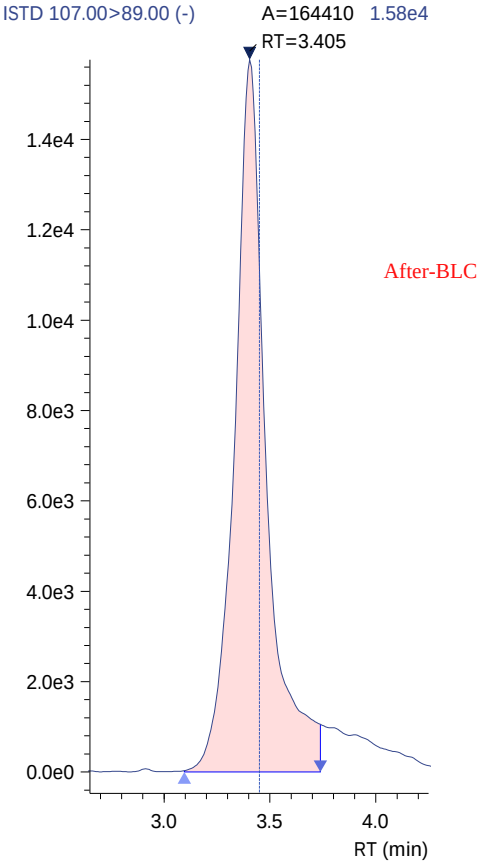
Conc 9.8217
R#1 34.51 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

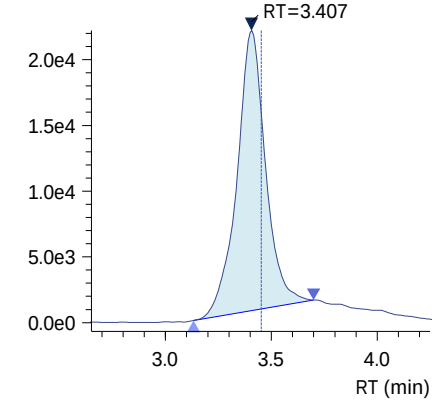
CCV

Sample ID: CCV
Date Acquired: 7/10/2024 3:33:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

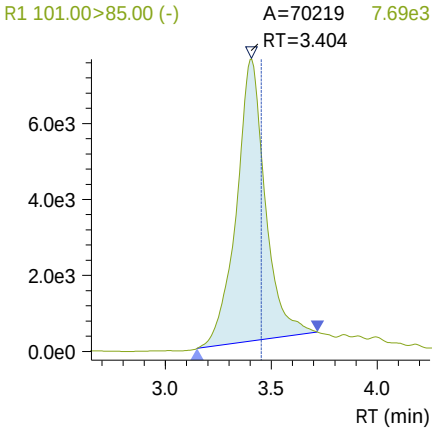
Perchlorate

Conc 10.0877
R#1 35.21 (35.24)

Q 99.00>83.00 (-) A=199416 2.22e4



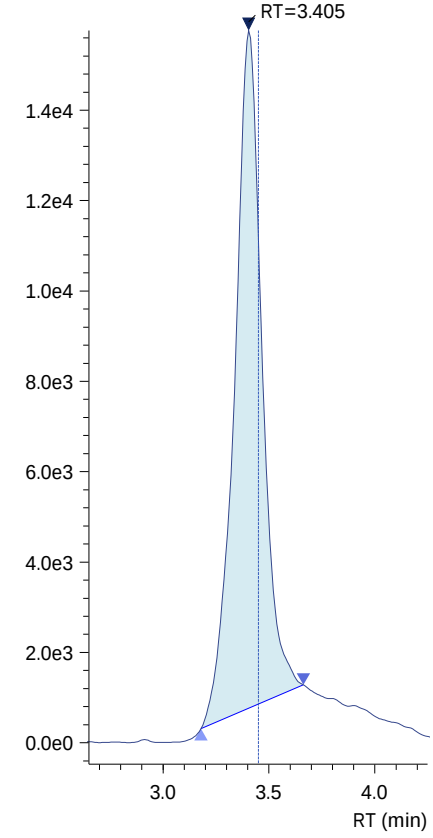
R1 101.00>85.00 (-) A=70219 7.69e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=135394 1.58e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

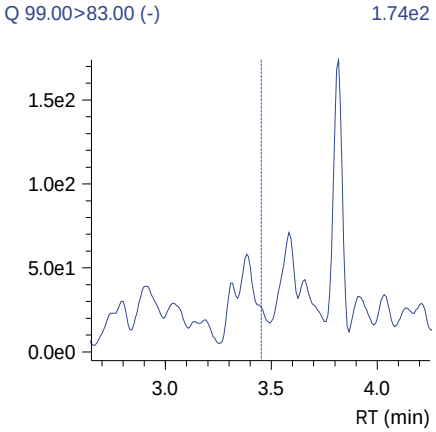
IB

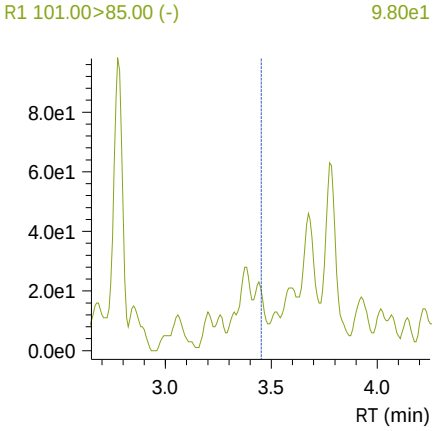
Sample ID: IB
Date Acquired: 7/10/2024 3:39:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-017.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	169849	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	169849	169849	1.0000	ng/mL	----	----	

Perchlorate

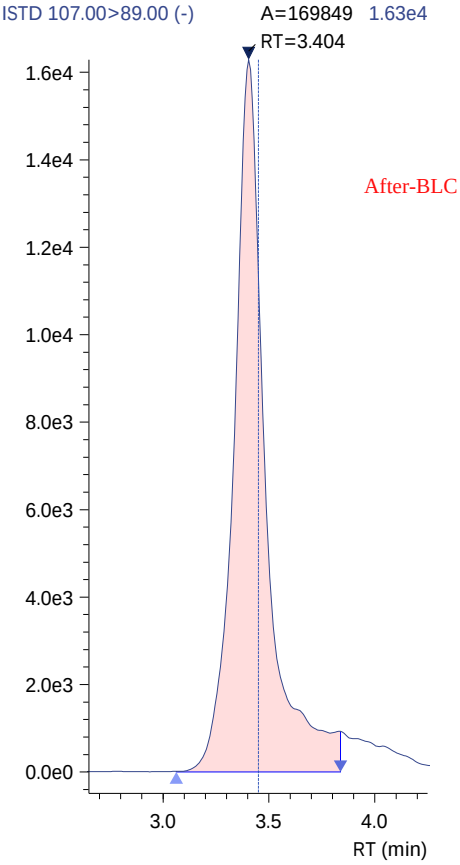
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

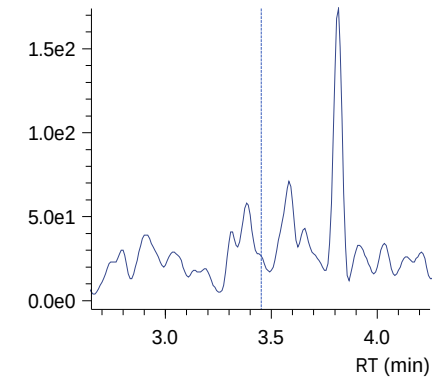
IB

Sample ID: IB
Date Acquired: 7/10/2024 3:39:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-017.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

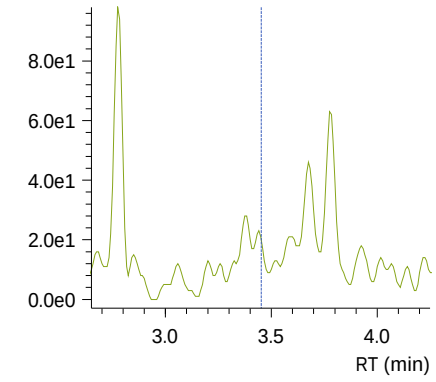
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.74e2



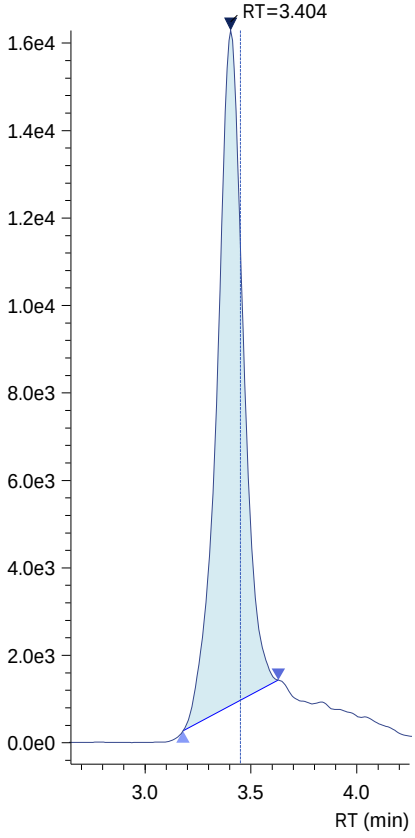
R1 101.00>85.00 (-) 9.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=133107 1.63e4
RT=3.404



Insight Report

Printed at 7/11/2024 11:51:12 AM

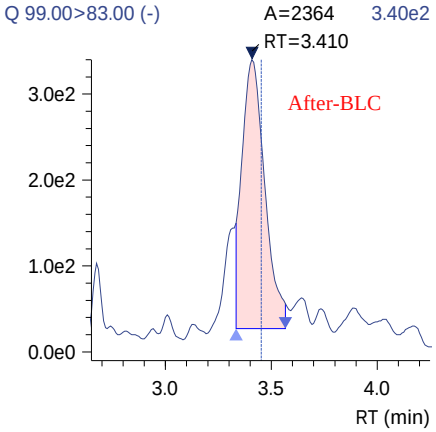
EQ2400374-02LCS

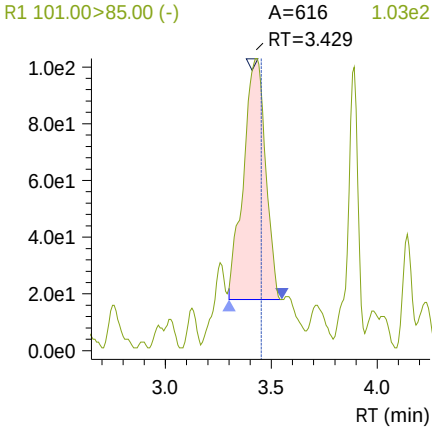
Sample ID: EQ2400374-02LCS
Date Acquired: 7/10/2024 3:44:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-018.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.410	2364	145938	0.1109	ng/mL	101.00 >85.00	26.04	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	145938	145938	1.0000	ng/mL	----	----	

Perchlorate

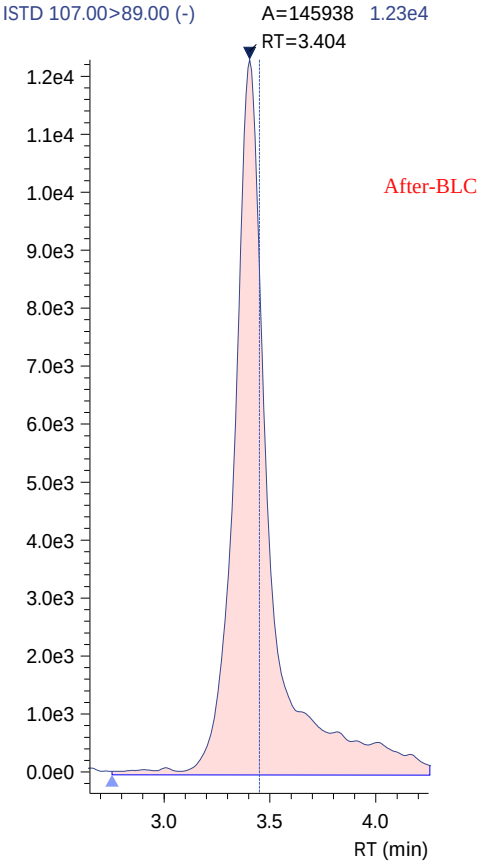
Conc 0.1109
R#1 26.04 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

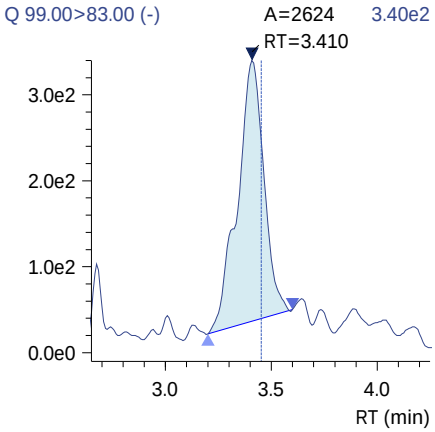
Printed at 7/11/2024 11:51:53 AM

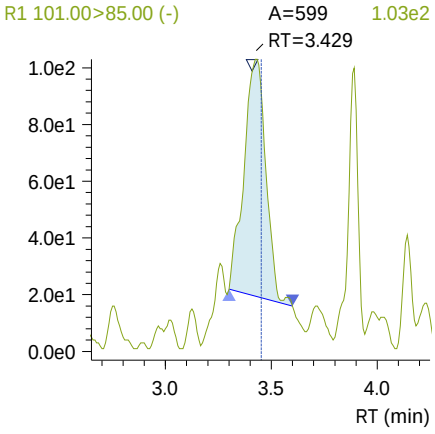
EQ2400374-02LCS

Sample ID: EQ2400374-02LCS
Date Acquired: 7/10/2024 3:44:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-018.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Perchlorate

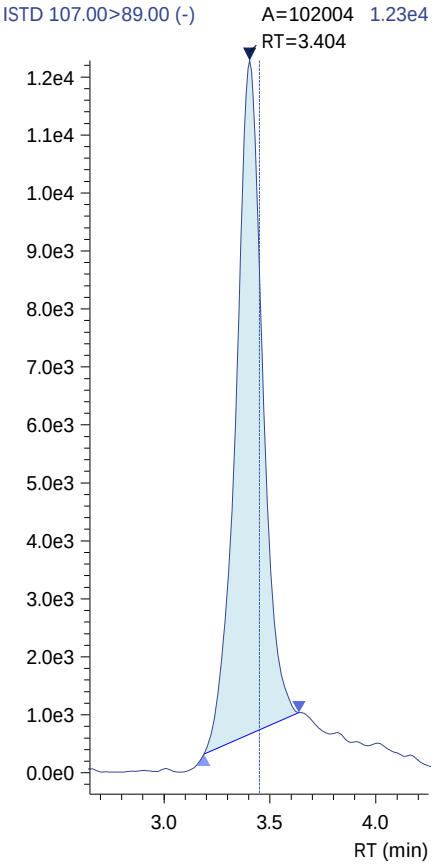
Conc 0.1762
R#1 22.81 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:12 AM

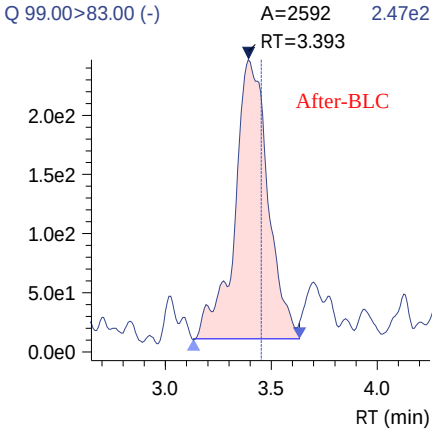
EQ2400374-03DLCS

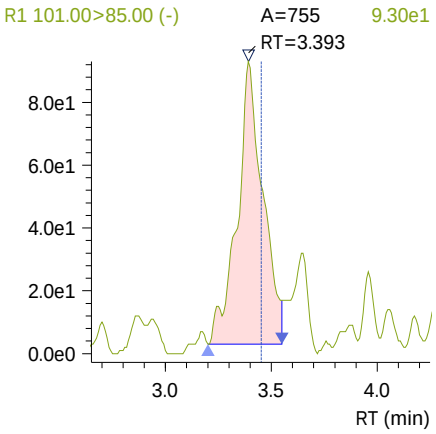
Sample ID: EQ2400374-03DLCS
Date Acquired: 7/10/2024 3:50:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-019.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.393	2592	179315	0.0990	ng/mL	101.00 >85.00	29.13	24.17 -44.88
Sodium Perchlorate-18O4 _IS	M	3.402	1793 15	179315	1.0000	ng/mL	----	----	

Perchlorate

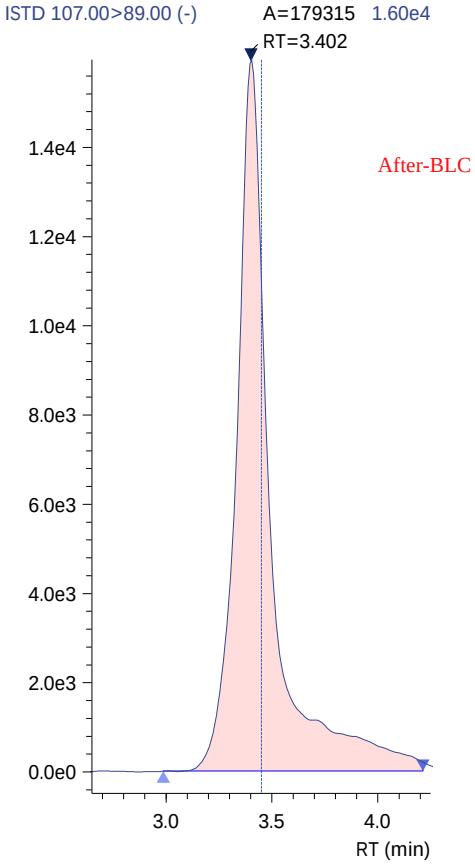
Conc 0.0990
R#1 29.13 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

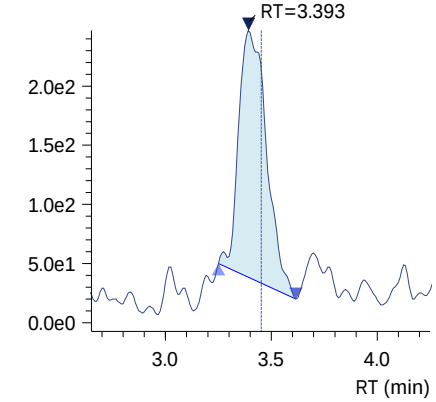
EQ2400374-03DLCS

Sample ID: EQ2400374-03DLCS
Date Acquired: 7/10/2024 3:50:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-019.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

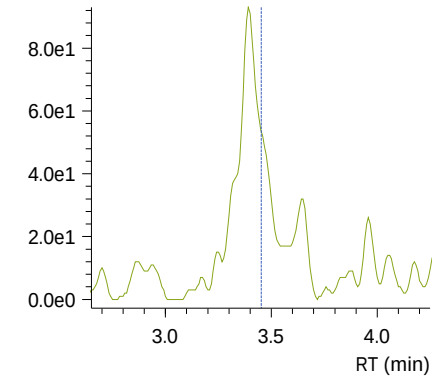
Perchlorate

Conc 0.0972
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1917 2.47e2 RT=3.393



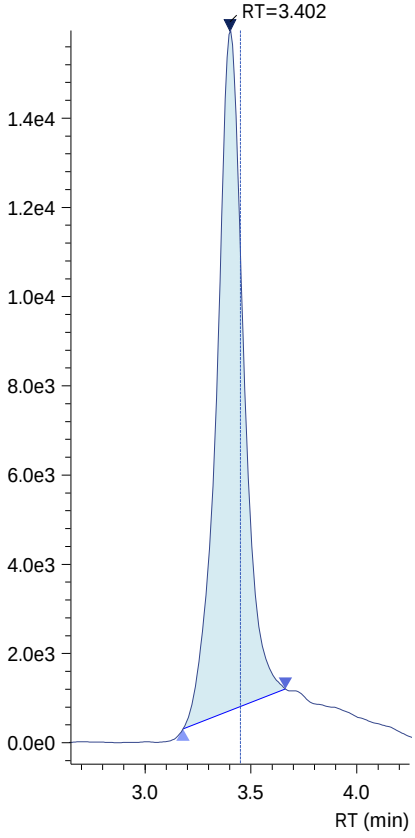
R1 101.00>85.00 (-) 9.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=135029 1.60e4 RT=3.402



Insight Report

Printed at 7/11/2024 11:51:12 AM

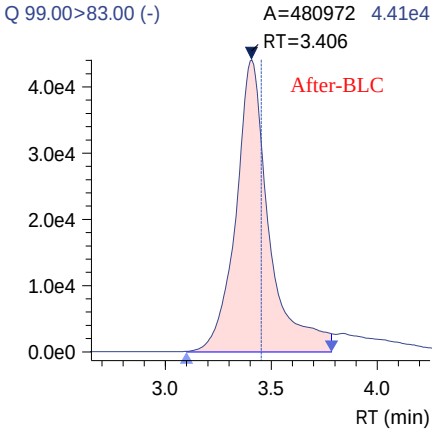
E2400734-002X100

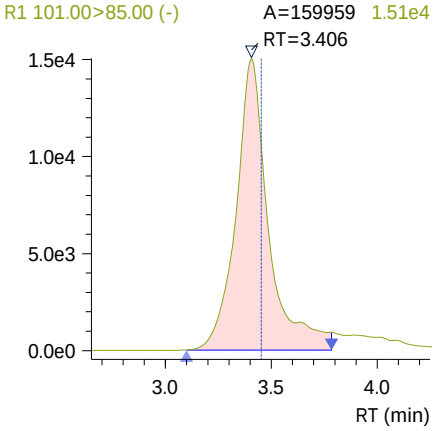
Sample ID: E2400734-002X100
Date Acquired: 7/10/2024 4:12:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-023.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.406	4809 72	146723	22.4 519	ng/mL	101.00 >85.00	33.26	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	1467 23	146723	1.0000	ng/mL	----	----	

Perchlorate

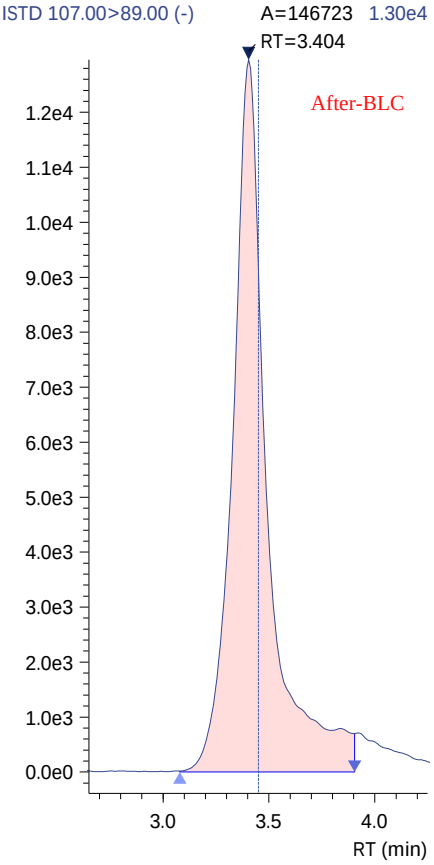
Conc 22.4519
R#1 33.26 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

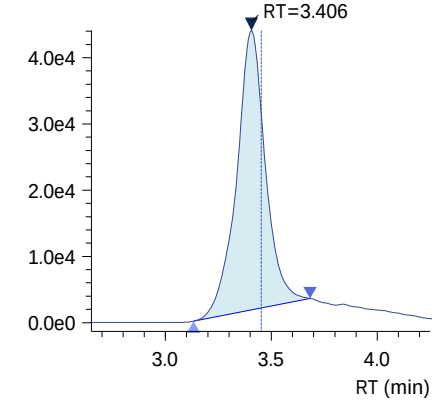
E2400734-002X100

Sample ID: E2400734-002X100
Date Acquired: 7/10/2024 4:12:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-023.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 2

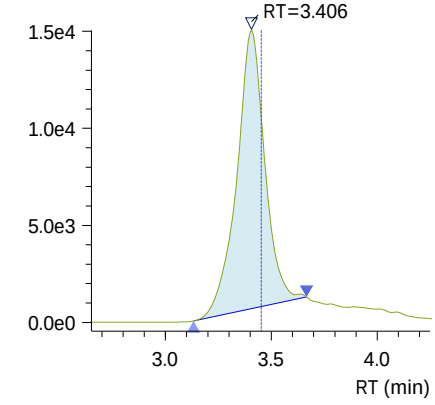
Perchlorate

Conc 23.8060
R#1 33.22 (35.24)

Q 99.00>83.00 (-) A=397087 4.41e4



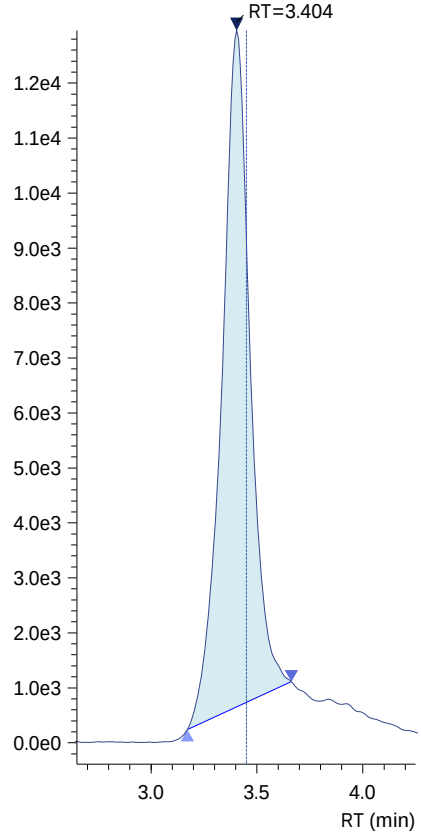
R1 101.00>85.00 (-) A=131894 1.51e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=114244 1.30e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

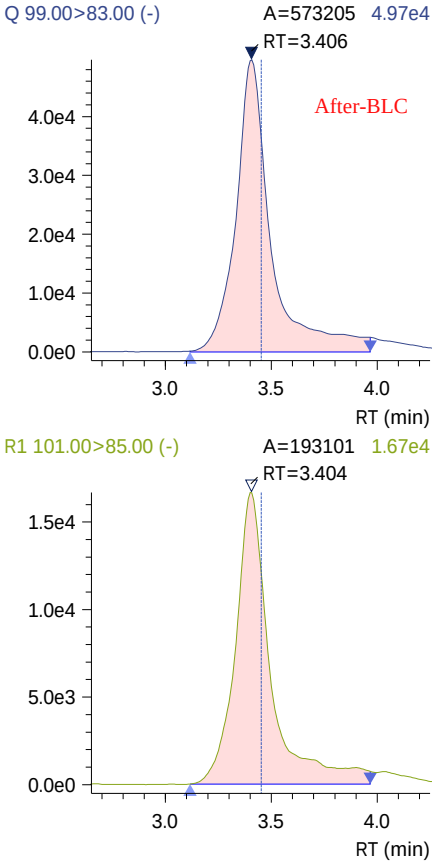
E2400734-003X10

Sample ID: E2400734-003X10
Date Acquired: 7/10/2024 4:18:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-024.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.406	573205	154104	25.4759	ng/mL	101.00 >85.00	33.69	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	154104	154104	1.0000	ng/mL	----	----	

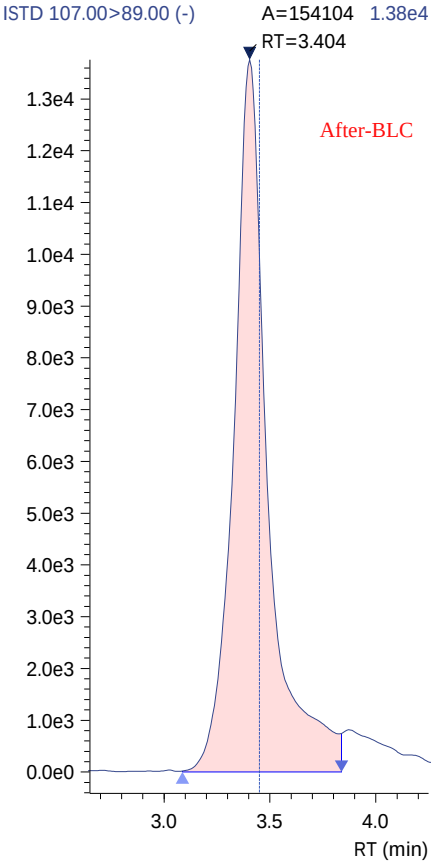
Perchlorate

Conc 25.4759
R#1 33.69 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

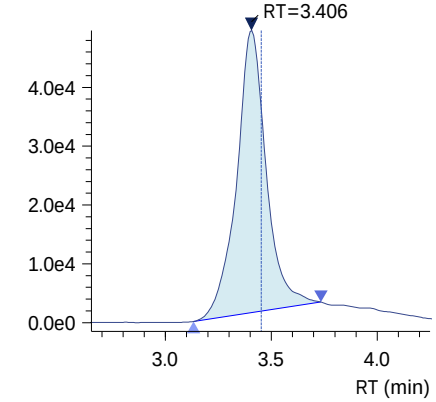
E2400734-003X10

Sample ID: E2400734-003X10
Date Acquired: 7/10/2024 4:18:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-024.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 2

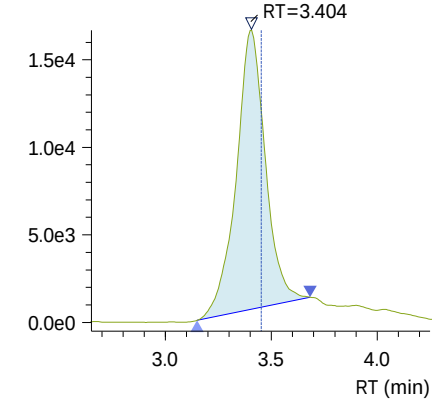
Perchlorate

Conc 25.6964
R#1 32.65 (35.24)

Q 99.00>83.00 (-) A=466614 4.97e4 RT=3.406



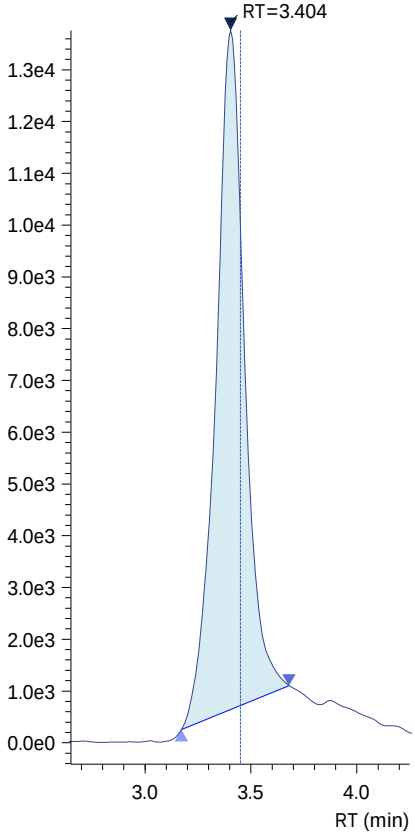
R1 101.00>85.00 (-) A=152364 1.67e4 RT=3.404



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=124371 1.38e4 RT=3.404



Insight Report

Printed at 7/11/2024 11:51:12 AM

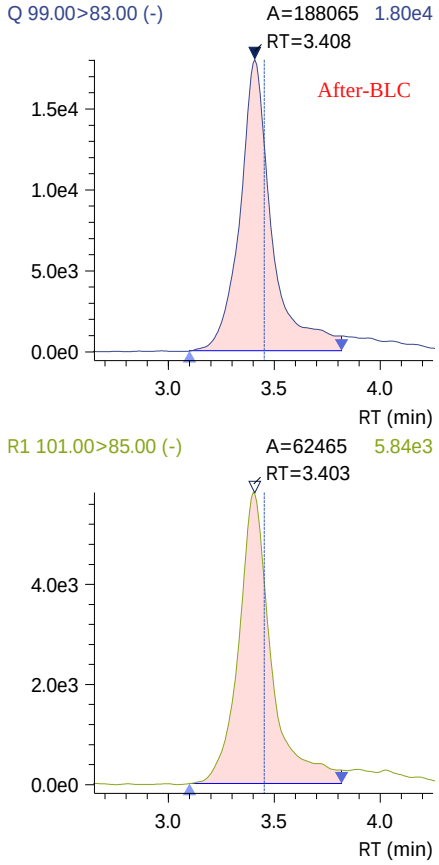
E2400734-004X100

Sample ID: E2400734-004X100
Date Acquired: 7/10/2024 4:23:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-025.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.408	188065	155693	8.2732	ng/mL	101.00 >85.00	33.21	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.402	155693	155693	1.0000	ng/mL	----	----	

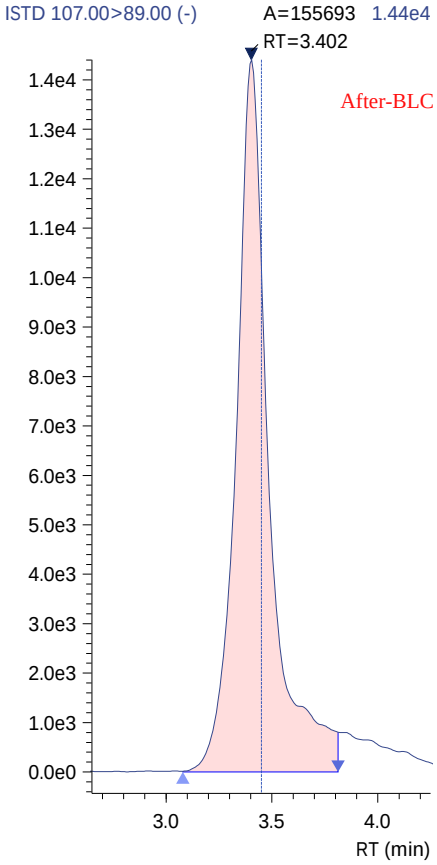
Perchlorate

Conc 8.2732
R#1 33.21 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

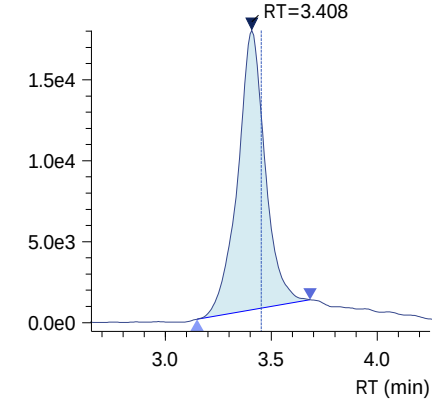
E2400734-004X100

Sample ID: E2400734-004X100
Date Acquired: 7/10/2024 4:23:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-025.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 2

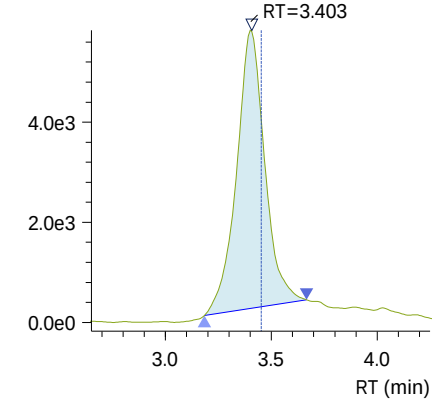
Perchlorate

Conc 8.7582
R#1 33.05 (35.24)

Q 99.00>83.00 (-) A=155576 1.80e4



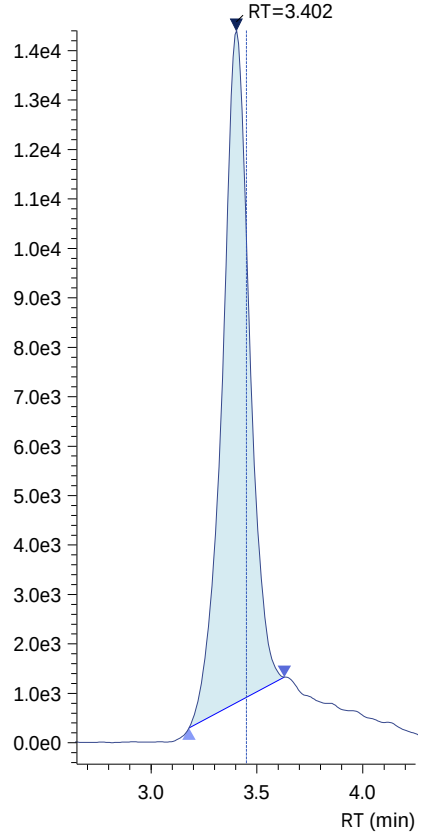
R1 101.00>85.00 (-) A=51423 5.84e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=121663 1.44e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

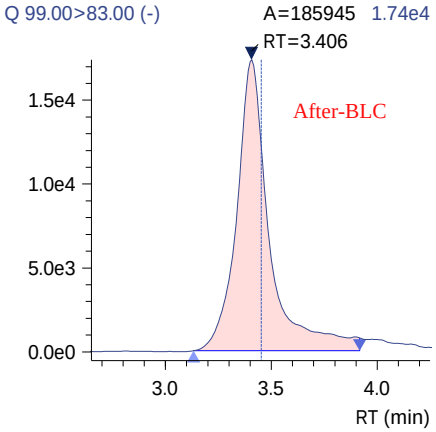
EQ2400374-05MSX100

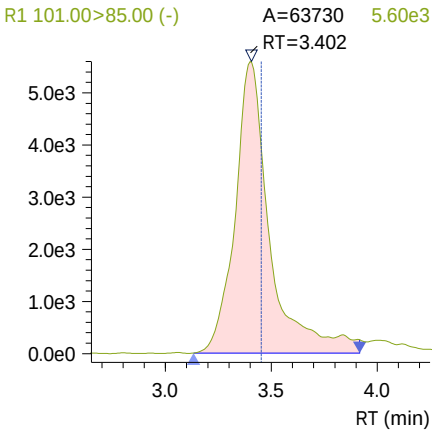
Sample ID: EQ2400374-05MSX100
Date Acquired: 7/10/2024 4:29:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-026.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.406	185945	152417	8.3557	ng/mL	101.00 >85.00	34.27	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.403	152417	152417	1.0000	ng/mL	----	----	

Perchlorate

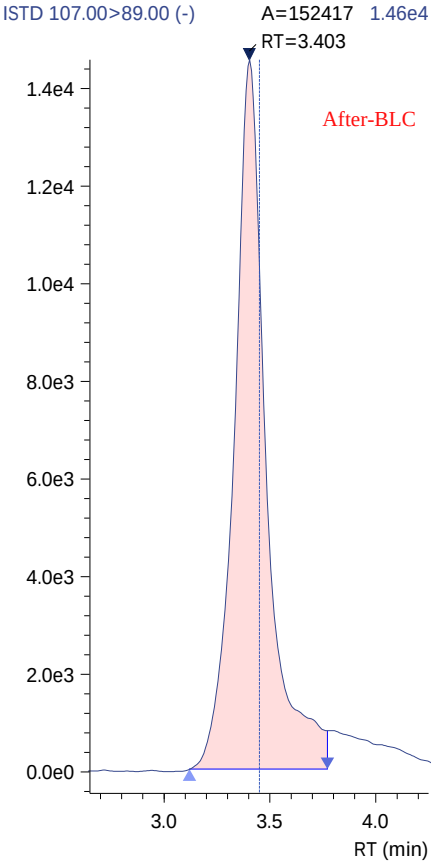
Conc 8.3557
R#1 34.27 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

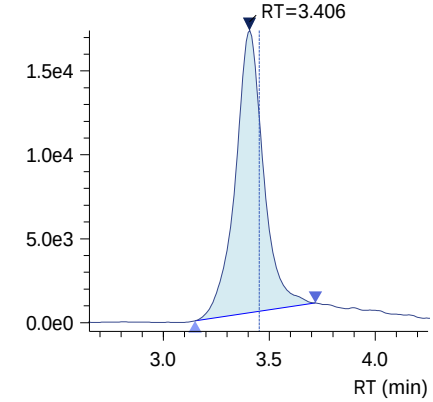
EQ2400374-05MSX100

Sample ID: EQ2400374-05MSX100
Date Acquired: 7/10/2024 4:29:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-026.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 2

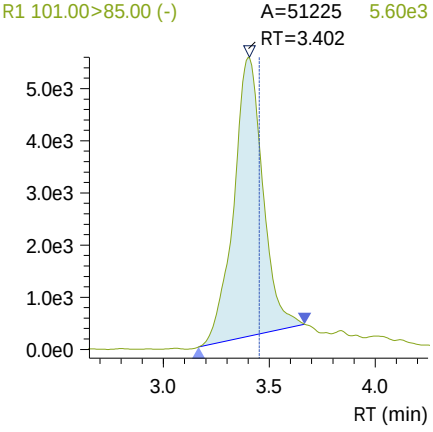
Perchlorate

Conc 8.5450
R#1 32.84 (35.24)

Q 99.00>83.00 (-) A=155961 1.74e4



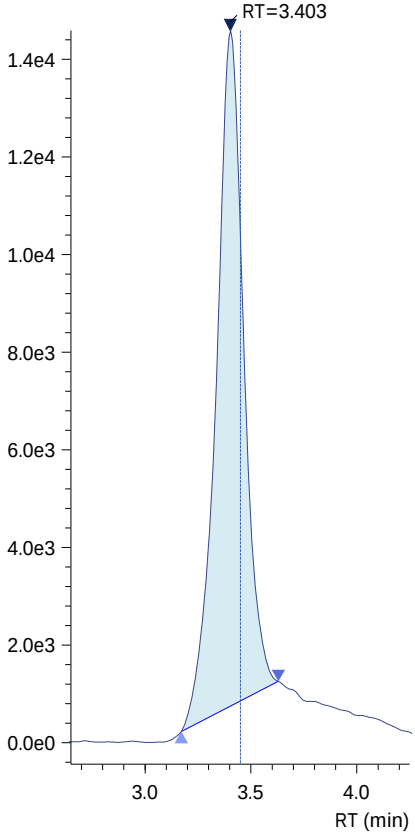
R1 101.00>85.00 (-) A=51225 5.60e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=125007 1.46e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

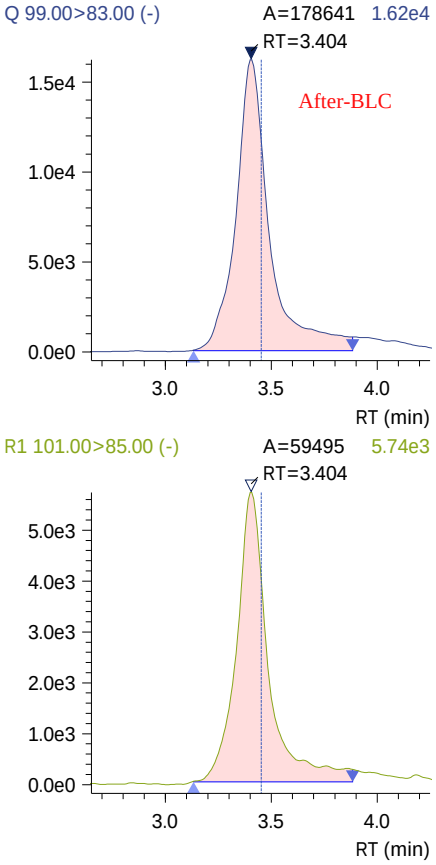
EQ2400374-06DMSX100

Sample ID: EQ2400374-06DMSX100
Date Acquired: 7/10/2024 4:34:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-027.lcd
Vial: 18 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.404	178641	145891	8.3866	ng/mL	101.00 >85.00	33.30	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	145891	145891	1.0000	ng/mL	----	----	

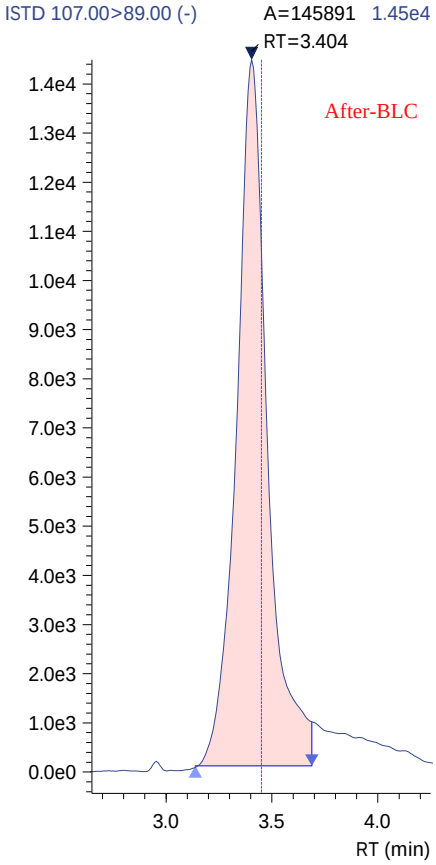
Perchlorate

Conc 8.3866
R#1 33.30 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

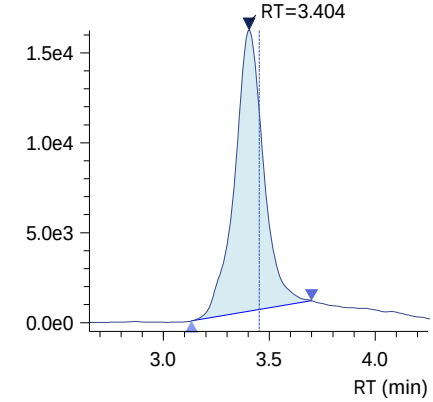
EQ2400374-06DMSX100

Sample ID: EQ2400374-06DMSX100
Date Acquired: 7/10/2024 4:34:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-027.lcd
Vial: 18 | Inj. Volume: 10.0000uL | Tray: 2

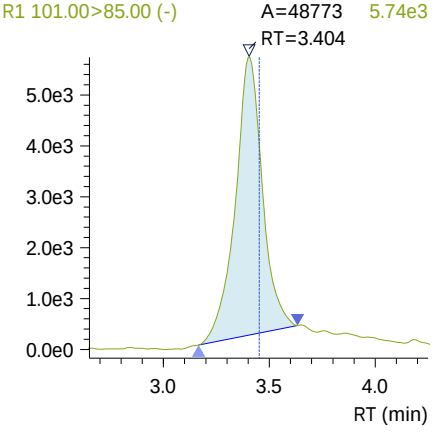
Perchlorate

Conc 7.8653
R#1 32.80 (35.24)

Q 99.00>83.00 (-) A=148720 1.62e4



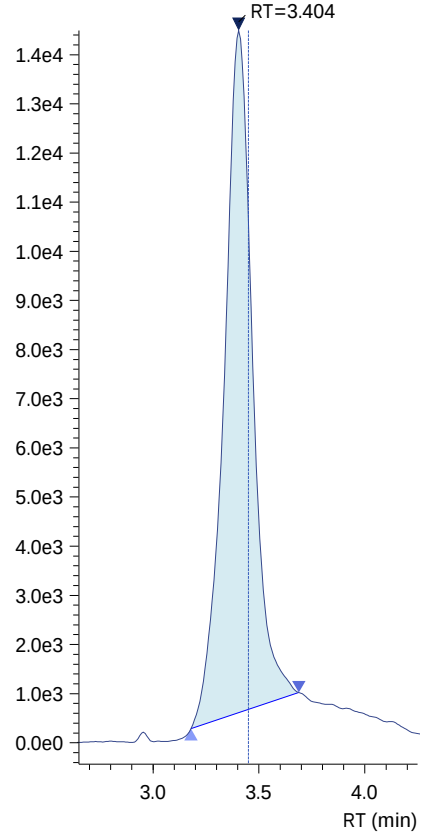
R1 101.00>85.00 (-) A=48773 5.74e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=129504 1.45e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

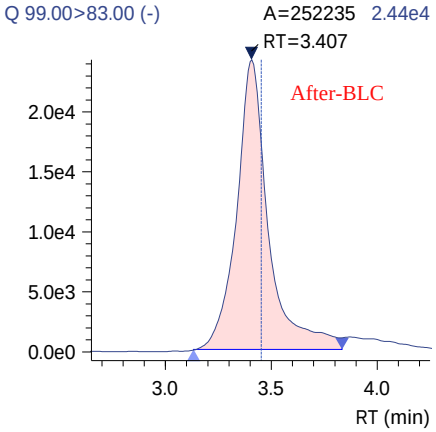
CCV

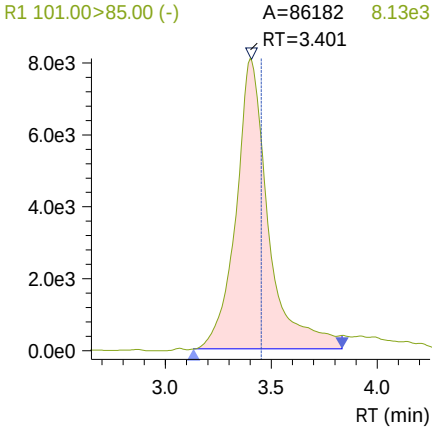
Sample ID: CCV
Date Acquired: 7/10/2024 4:40:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.407	2522 35	179730	9.6121	ng/mL	101.00 >85.00	34.17	24.17 -44.88
Sodium Perchlorate-18O4 _IS	M	3.403	1797 30	179730	1.0000	ng/mL	----	----	

Perchlorate

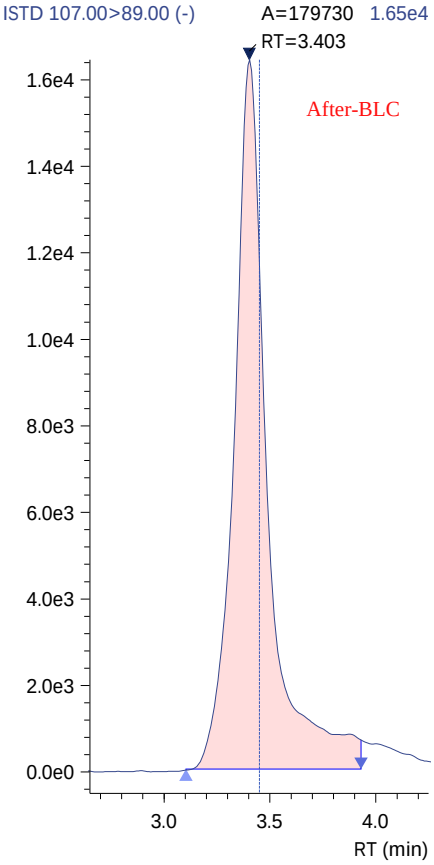
Conc 9.6121
R#1 34.17 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

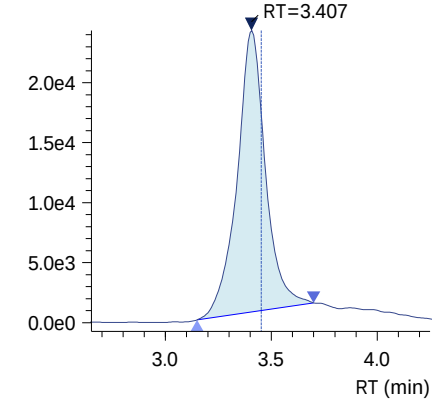
CCV

Sample ID: CCV
Date Acquired: 7/10/2024 4:40:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

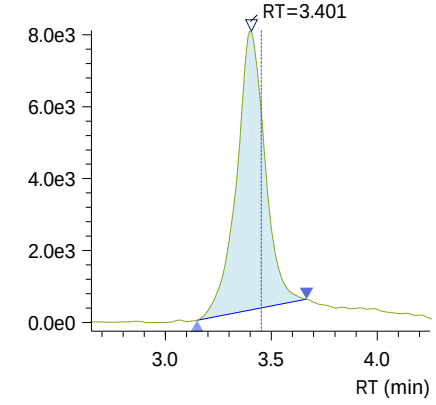
Perchlorate

Conc 10.4194
R#1 33.09 (35.24)

Q 99.00>83.00 (-) A=218511 2.44e4



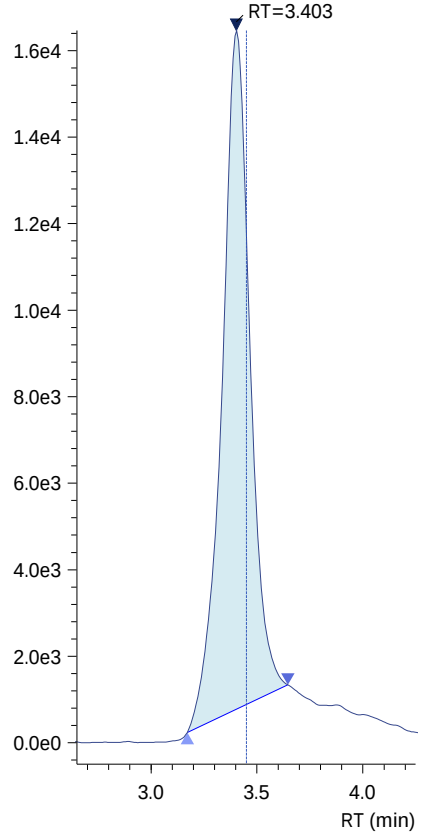
R1 101.00>85.00 (-) A=72311 8.13e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=143636 1.65e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

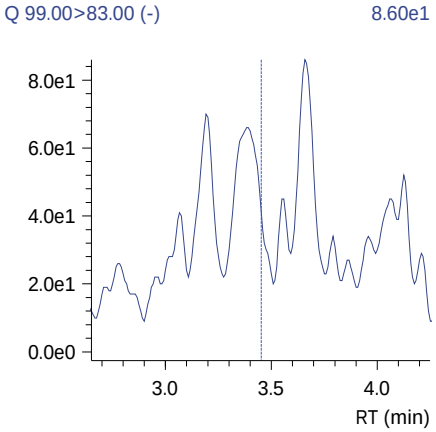
IB

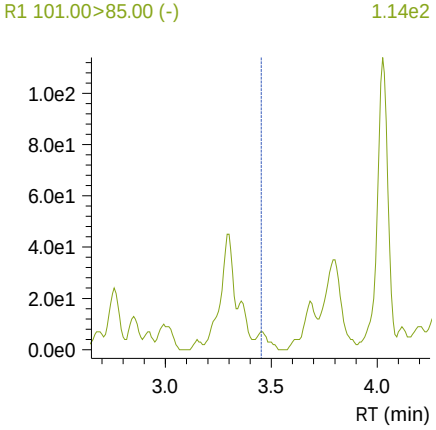
Sample ID: IB
Date Acquired: 7/10/2024 4:46:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-029.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	181818	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.403	181818	181818	1.0000	ng/mL	----	----	

Perchlorate

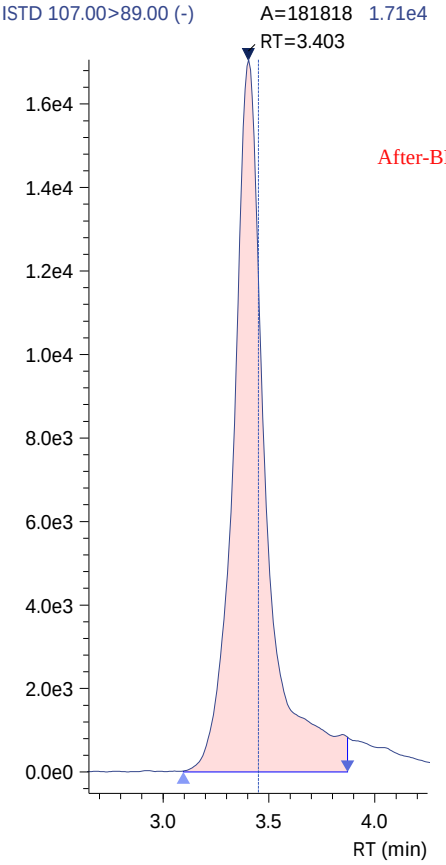
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 11:51:53 AM

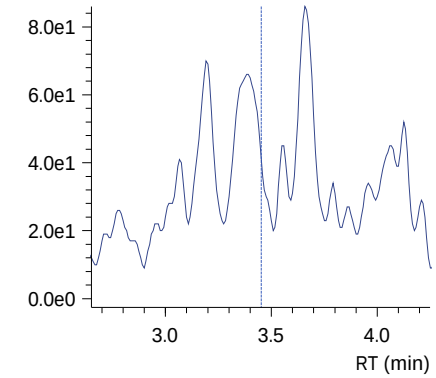
IB

Sample ID: IB
Date Acquired: 7/10/2024 4:46:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-029.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

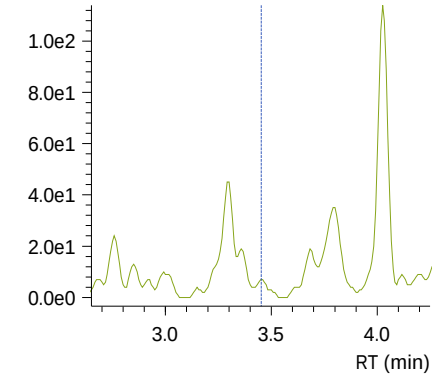
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.60e1



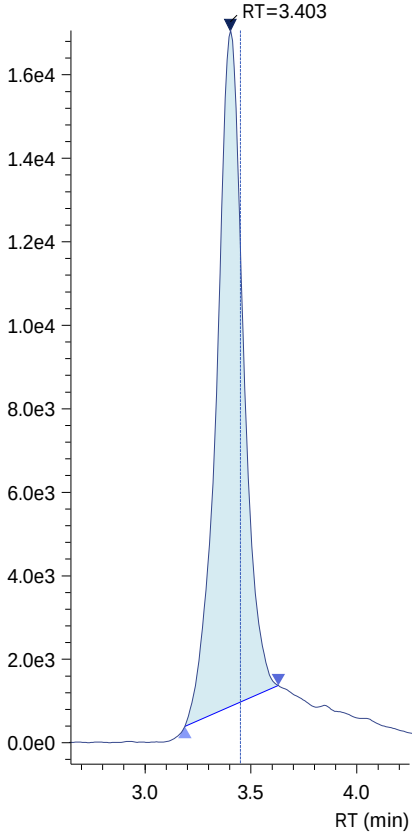
R1 101.00>85.00 (-) 1.14e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=142439 1.71e4
RT=3.403



Insight Report

Printed at 7/11/2024 11:51:12 AM

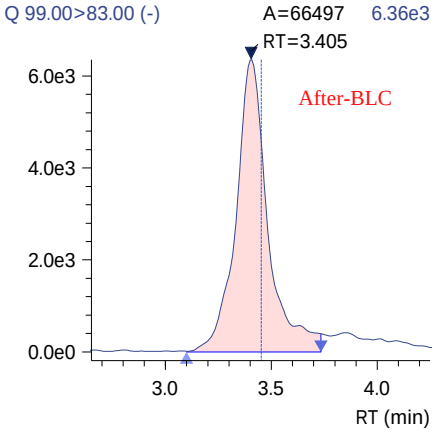
E2400734-005X1000

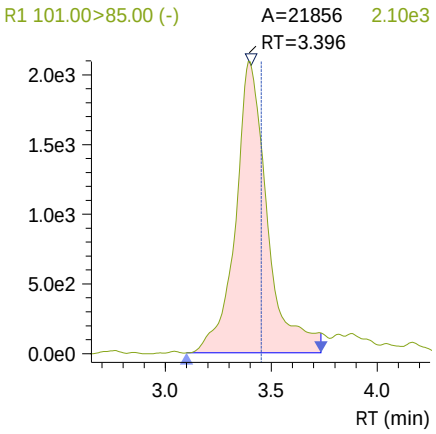
Sample ID: E2400734-005X1000
Date Acquired: 7/10/2024 4:51:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-030.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.405	66497	161604	2.8183	ng/mL	101.00 >85.00	32.87	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.403	161604	161604	1.0000	ng/mL	----	----	

Perchlorate

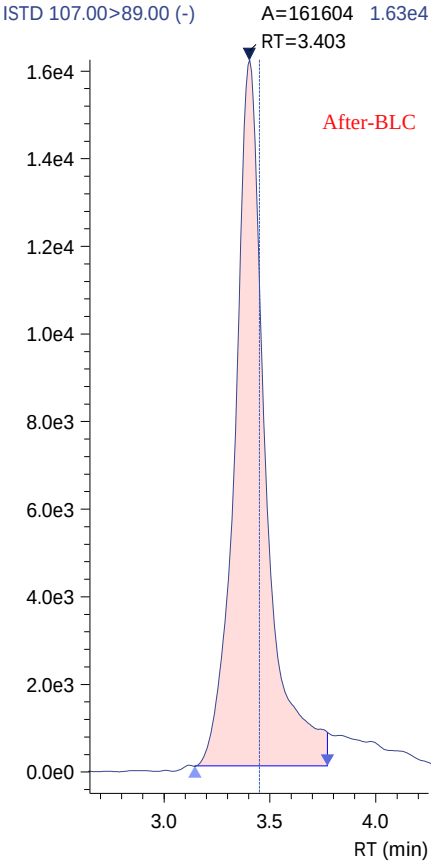
Conc 2.8183
R#1 32.87 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

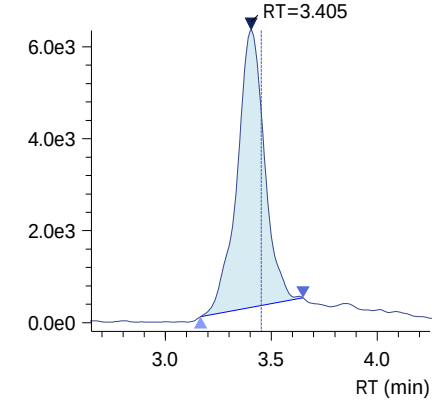
E2400734-005X1000

Sample ID: E2400734-005X1000
Date Acquired: 7/10/2024 4:51:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-030.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 2

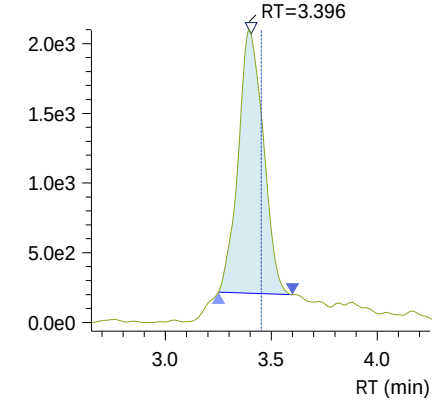
Perchlorate

Conc 2.6746
R#1 28.61 (35.24)

Q 99.00>83.00 (-) A=54367 6.36e3



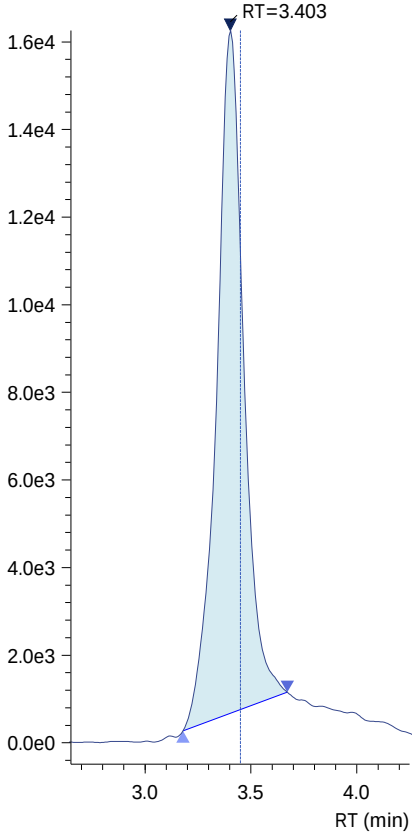
R1 101.00>85.00 (-) A=15553 2.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=139223 1.63e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

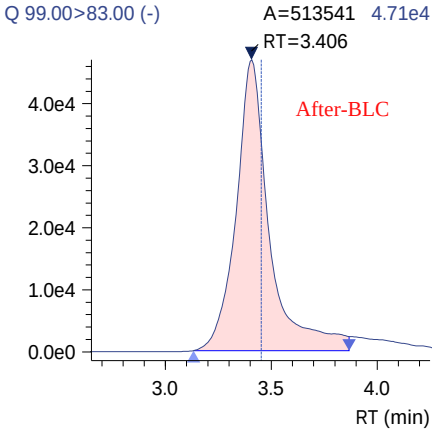
E2400734-006X100

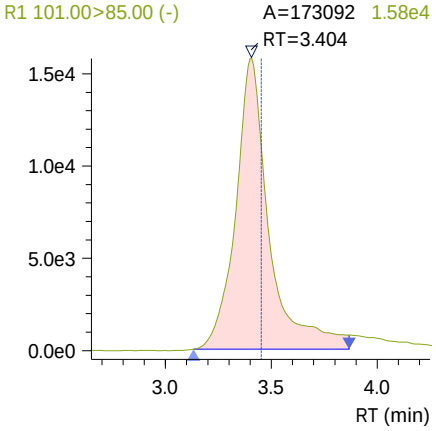
Sample ID: E2400734-006X100
Date Acquired: 7/10/2024 4:57:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-031.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.406	513541	149624	23.5075	ng/mL	101.00 >85.00	33.71	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.401	149624	149624	1.0000	ng/mL	----	----	

Perchlorate

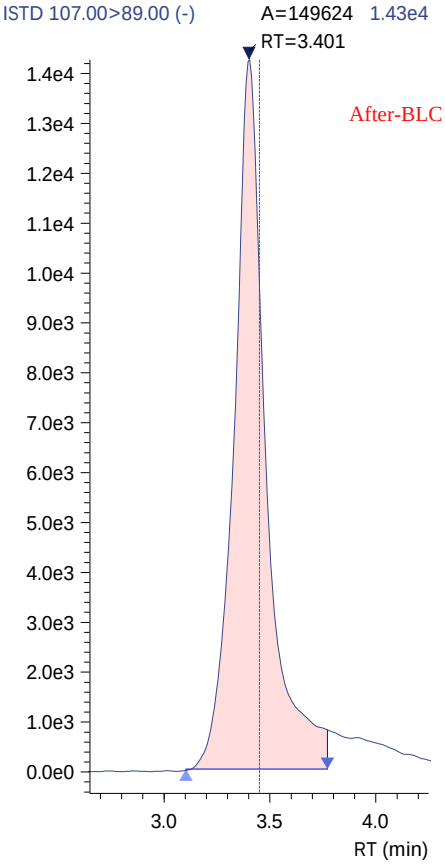
Conc 23.5075
R#1 33.71 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

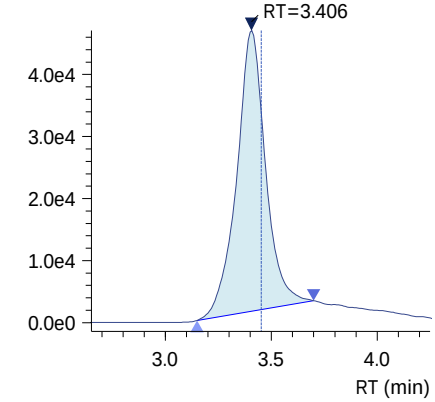
E2400734-006X100

Sample ID: E2400734-006X100
Date Acquired: 7/10/2024 4:57:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-031.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 2

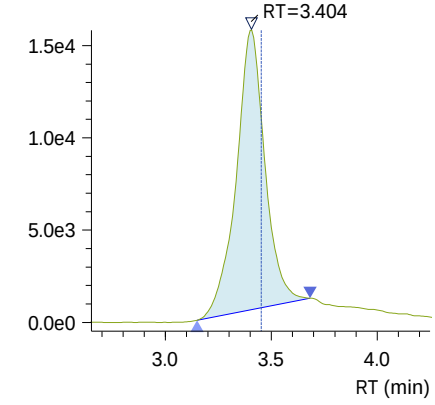
Perchlorate

Conc 23.7160
R#1 33.28 (35.24)

Q 99.00>83.00 (-) A=427954 4.71e4



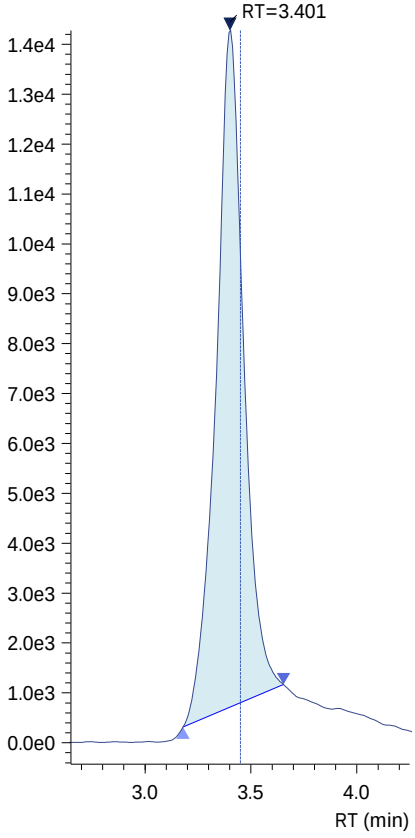
R1 101.00>85.00 (-) A=142407 1.58e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=123591 1.43e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

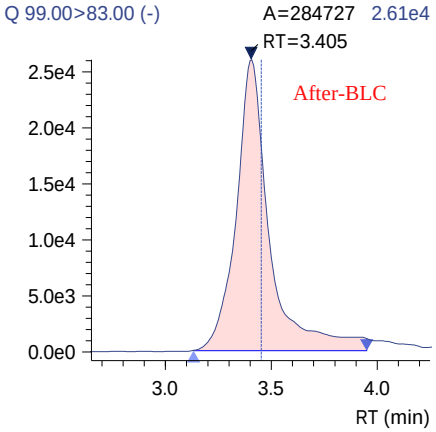
E2400734-007X1000

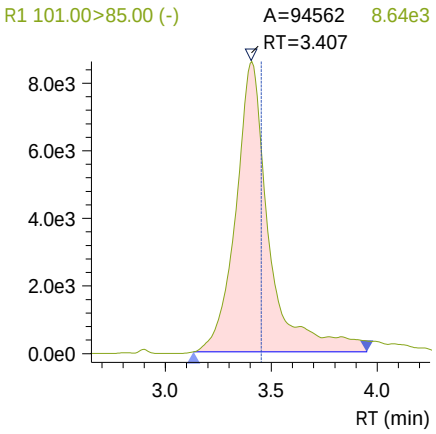
Sample ID: E2400734-007X1000
Date Acquired: 7/10/2024 5:02:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-032.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.405	2847 27	165232	11.8 024	ng/mL	101.00 >85.00	33.21	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.402	1652 32	165232	1.0000	ng/mL	----	----	

Perchlorate

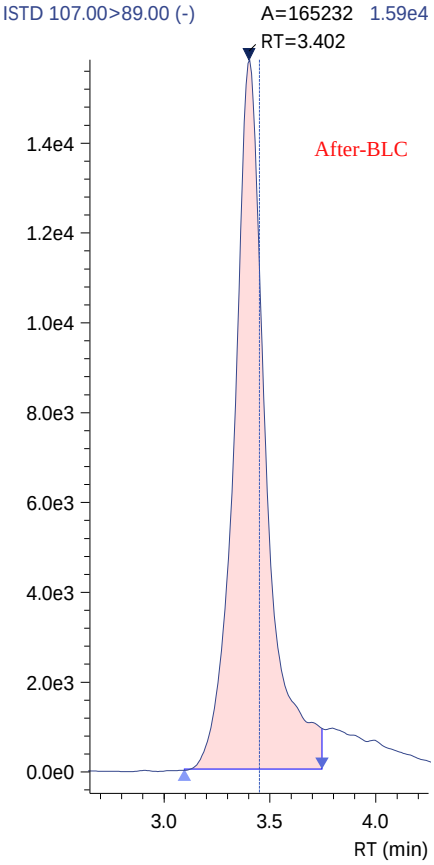
Conc 11.8024
R#1 33.21 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

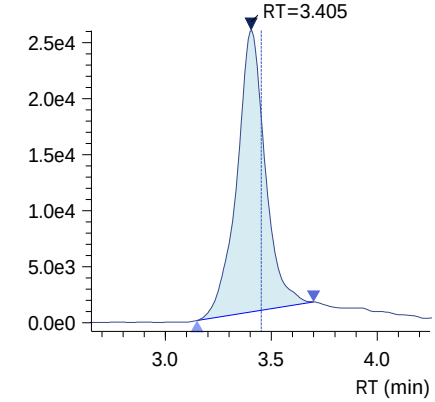
E2400734-007X1000

Sample ID: E2400734-007X1000
Date Acquired: 7/10/2024 5:02:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-032.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 2

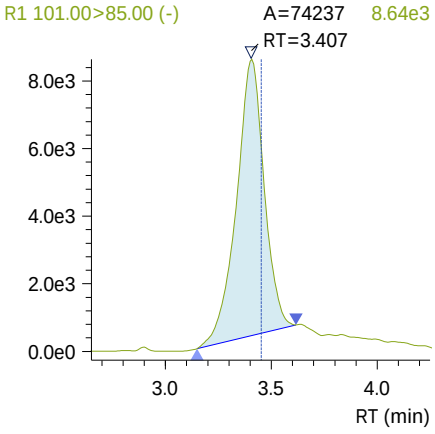
Perchlorate

Conc 11.4040
R#1 31.61 (35.24)

Q 99.00>83.00 (-) A=234827 2.61e4



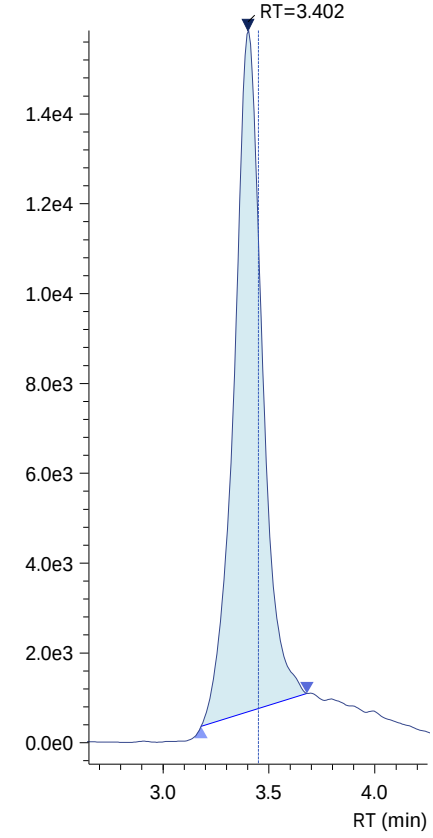
R1 101.00>85.00 (-) A=74237 8.64e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=141033 1.59e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

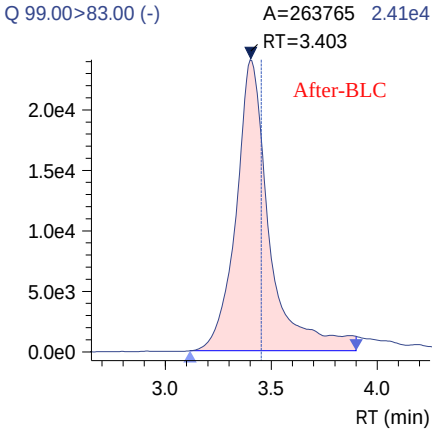
E2400734-008X50

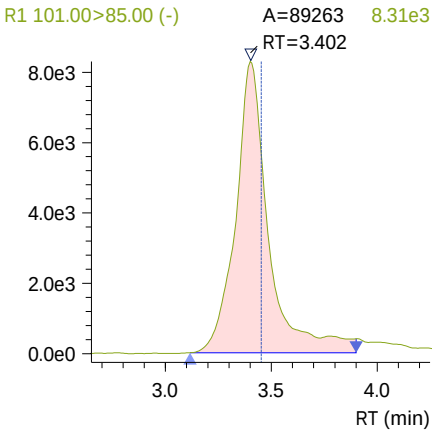
Sample ID: E2400734-008X50
Date Acquired: 7/10/2024 5:08:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-033.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.403	2637 65	160413	11.2 619	ng/mL	101.00 >85.00	33.84	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.400	1604 13	160413	1.0000	ng/mL	----	----	

Perchlorate

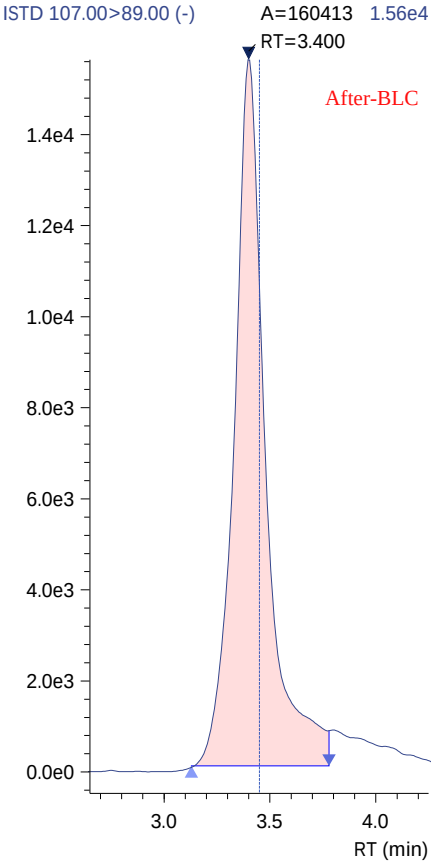
Conc 11.2619
R#1 33.84 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

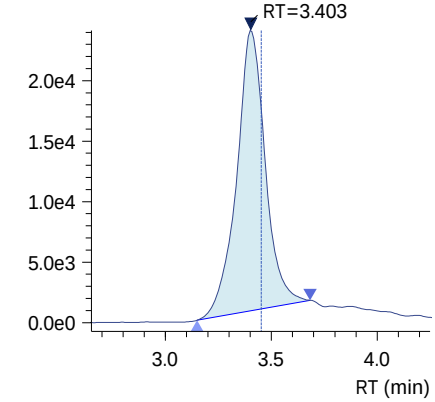
E2400734-008X50

Sample ID: E2400734-008X50
Date Acquired: 7/10/2024 5:08:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-033.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 2

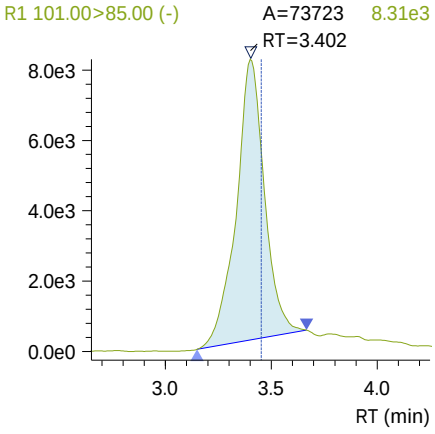
Perchlorate

Conc 11.0732
R#1 33.92 (35.24)

Q 99.00>83.00 (-) A=217365 2.41e4



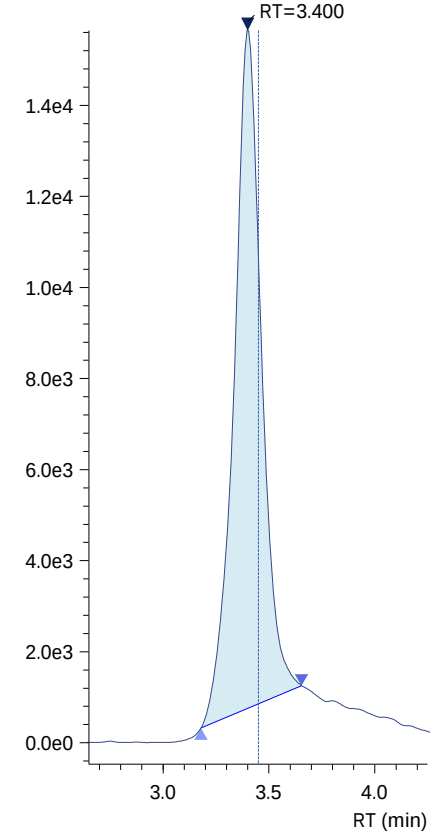
R1 101.00>85.00 (-) A=73723 8.31e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=134446 1.56e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

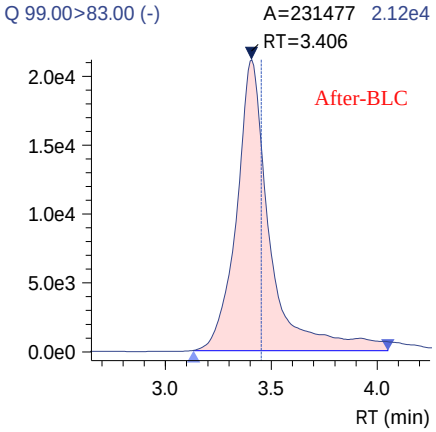
E2400734-013X50

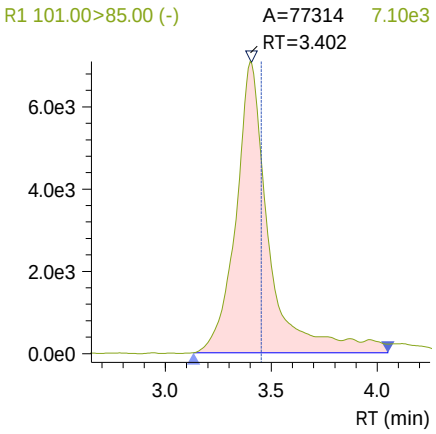
Sample ID: E2400734-013X50
Date Acquired: 7/10/2024 5:13:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-034.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.406	231477	160007	9.9084	ng/mL	101.00 >85.00	33.40	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.402	160007	160007	1.0000	ng/mL	----	----	

Perchlorate

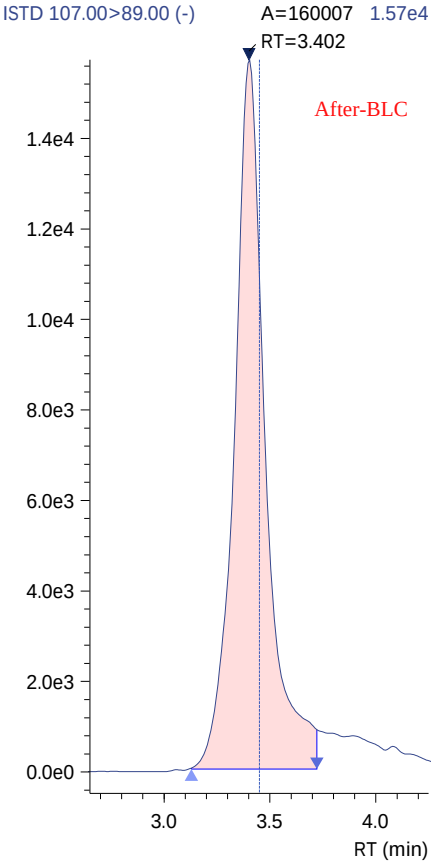
Conc 9.9084
R#1 33.40 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

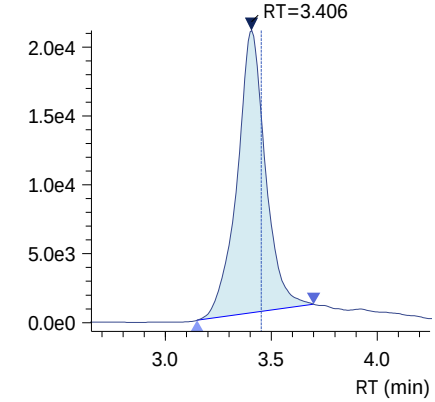
E2400734-013X50

Sample ID: E2400734-013X50
Date Acquired: 7/10/2024 5:13:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-034.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 2

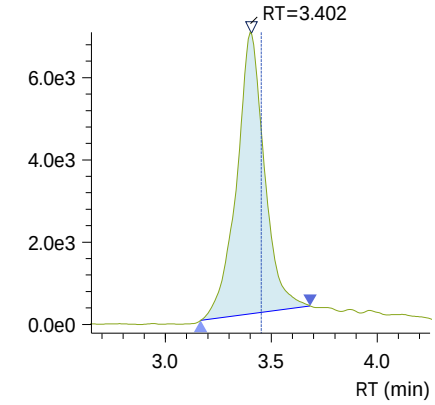
Perchlorate

Conc 9.6150
R#1 32.74 (35.24)

Q 99.00>83.00 (-) A=190860 2.12e4



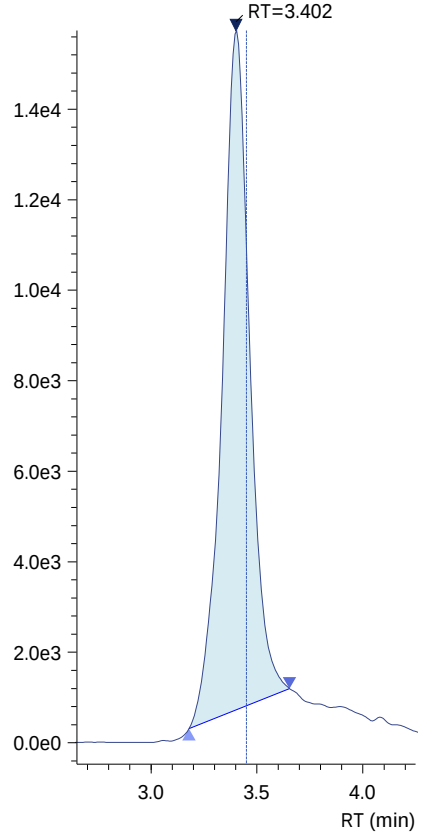
R1 101.00>85.00 (-) A=62483 7.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=135956 1.57e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

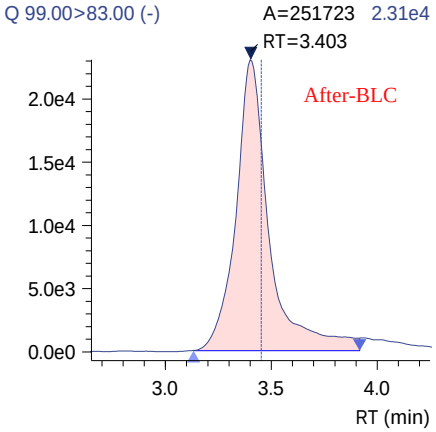
E2400734-014X10

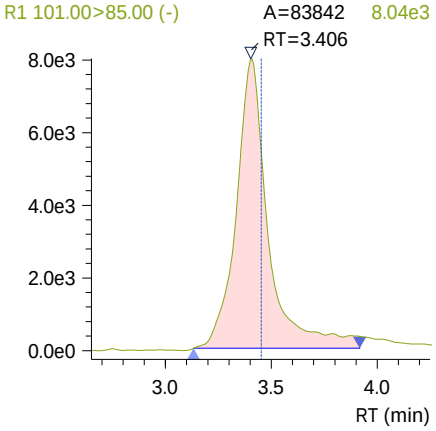
Sample ID: E2400734-014X10
Date Acquired: 7/10/2024 5:19:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-035.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.403	2517 23	168784	10.2 147	ng/mL	101.00 >85.00	33.31	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.401	1687 84	168784	1.0000	ng/mL	----	----	

Perchlorate

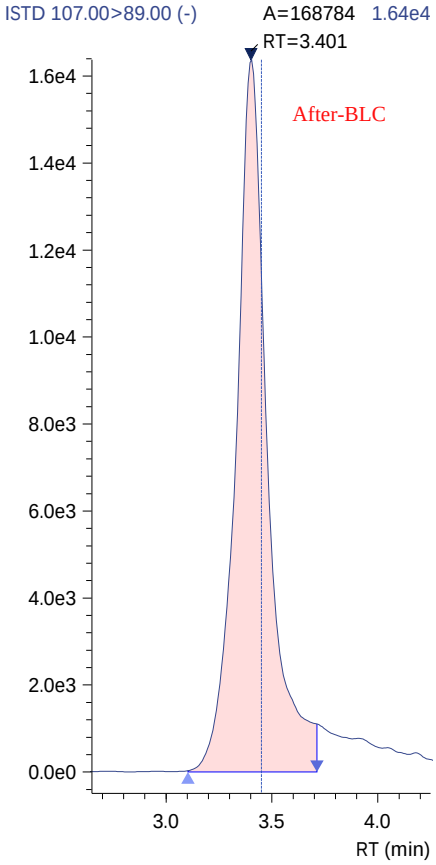
Conc 10.2147
R#1 33.31 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

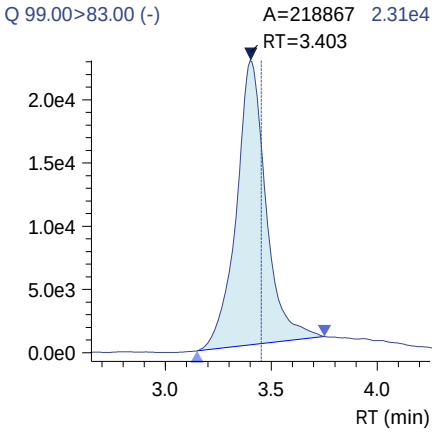
Printed at 7/11/2024 11:51:53 AM

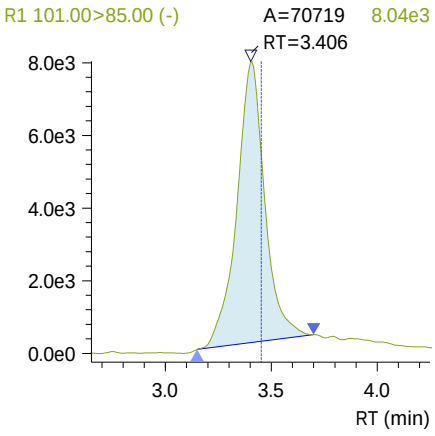
E2400734-014X10

Sample ID: E2400734-014X10
Date Acquired: 7/10/2024 5:19:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-035.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 2

Perchlorate

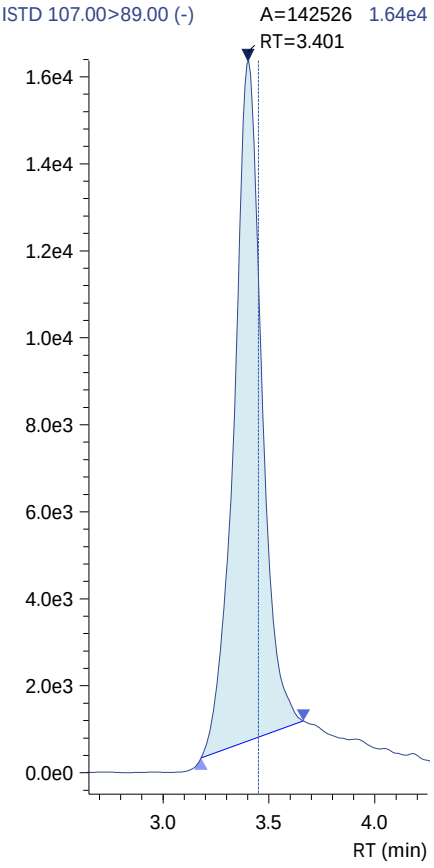
Conc 10.5177
R#1 32.31 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:12 AM

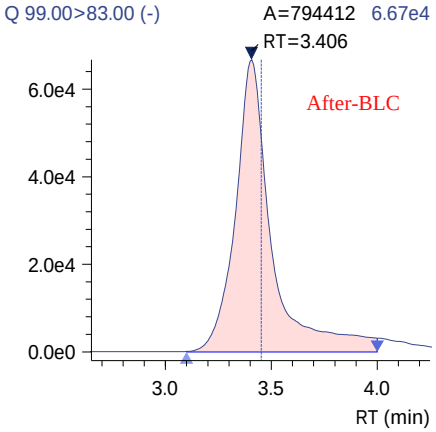
E2400734-017X10

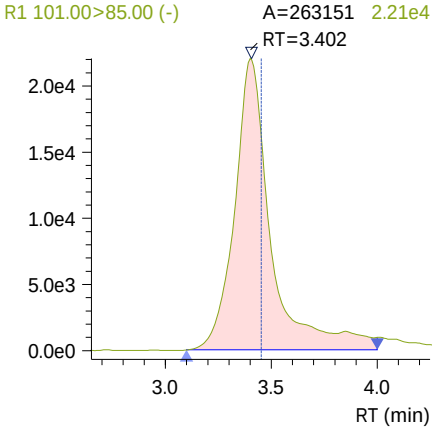
Sample ID: E2400734-017X10
Date Acquired: 7/10/2024 5:24:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-036.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.406	7944 12	149921	36.2 924	ng/mL	101.00 >85.00	33.13	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.405	1499 21	149921	1.0000	ng/mL	----	----	

Perchlorate

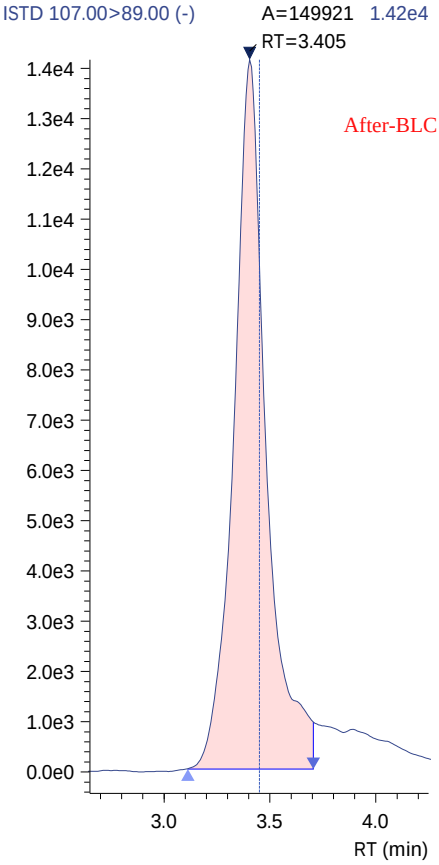
Conc 36.2924
R#1 33.13 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

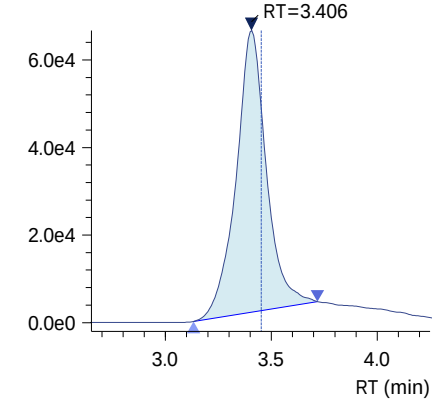
E2400734-017X10

Sample ID: E2400734-017X10
Date Acquired: 7/10/2024 5:24:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-036.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 2

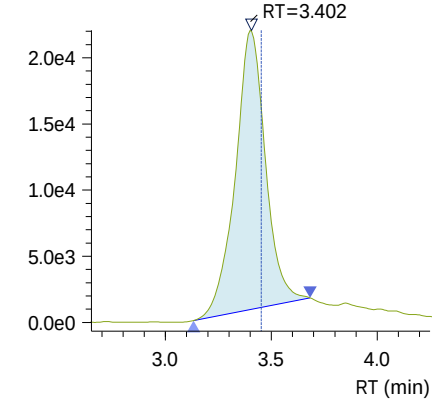
Perchlorate

Conc 35.4166
R#1 32.62 (35.24)

Q 99.00>83.00 (-) A=638388 6.67e4



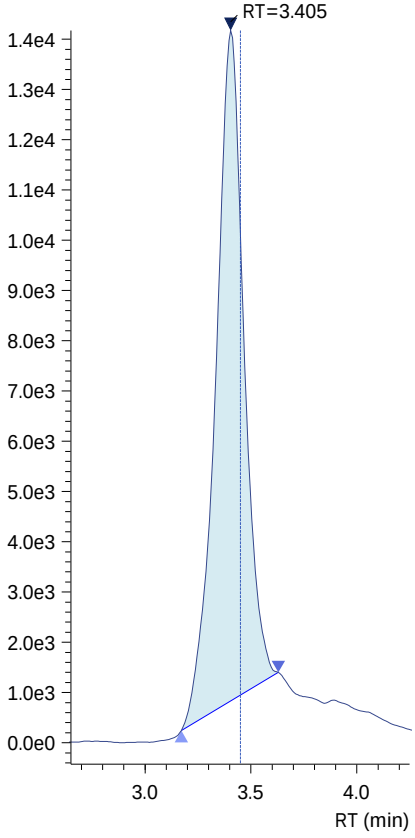
R1 101.00>85.00 (-) A=208222 2.21e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=123456 1.42e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

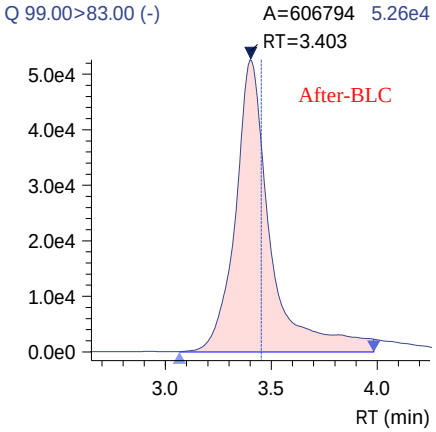
E2400734-020X100

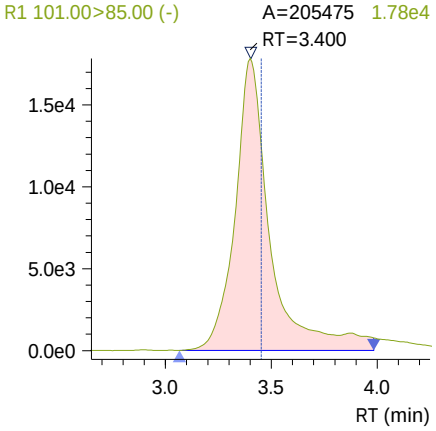
Sample ID: E2400734-020X100
Date Acquired: 7/10/2024 5:30:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-037.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.403	6067 94	148611	27.9 656	ng/mL	101.00 >85.00	33.86	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.401	1486 11	148611	1.0000	ng/mL	----	----	

Perchlorate

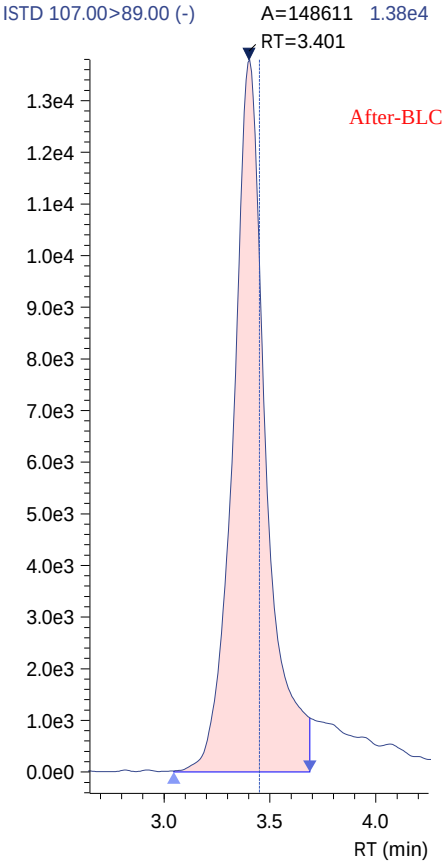
Conc 27.9656
R#1 33.86 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

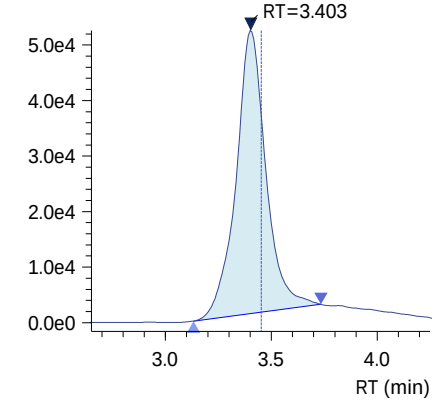
E2400734-020X100

Sample ID: E2400734-020X100
Date Acquired: 7/10/2024 5:30:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-037.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

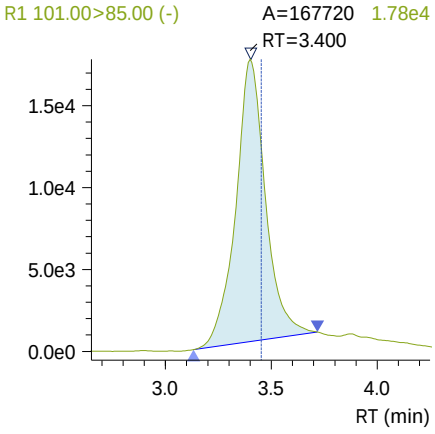
Perchlorate

Conc 26.7520
R#1 33.56 (35.24)

Q 99.00>83.00 (-) A=499759 5.26e4 RT=3.403



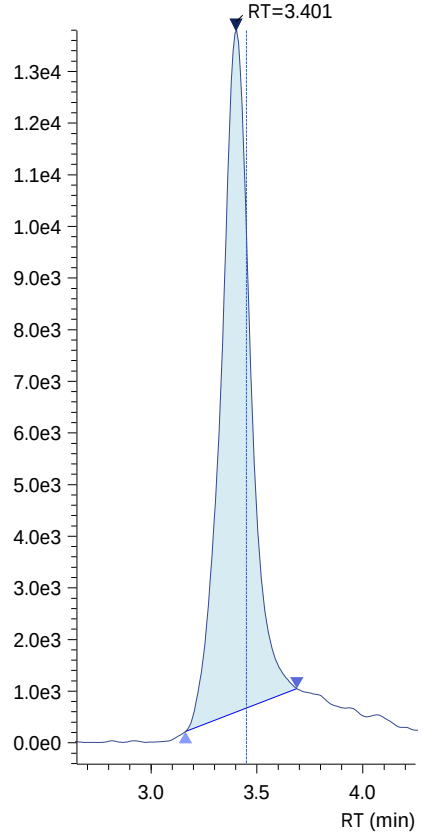
R1 101.00>85.00 (-) A=167720 1.78e4 RT=3.400



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=127949 1.38e4 RT=3.401



Insight Report

Printed at 7/11/2024 11:51:12 AM

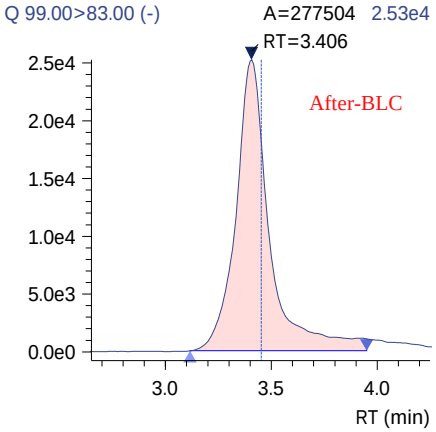
E2400734-021X100

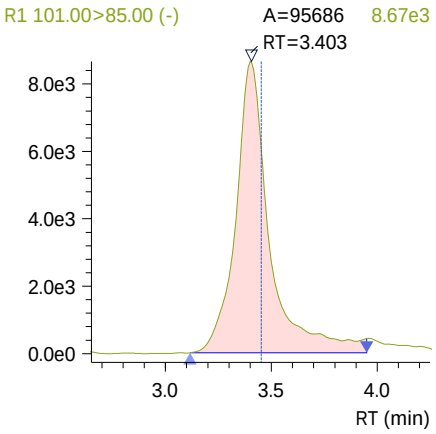
Sample ID: E2400734-021X100
Date Acquired: 7/10/2024 5:35:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-038.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.406	277504	152736	12.440	ng/mL	101.00 >85.00	34.48	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.402	152736	152736	1.0000	ng/mL	----	----	

Perchlorate

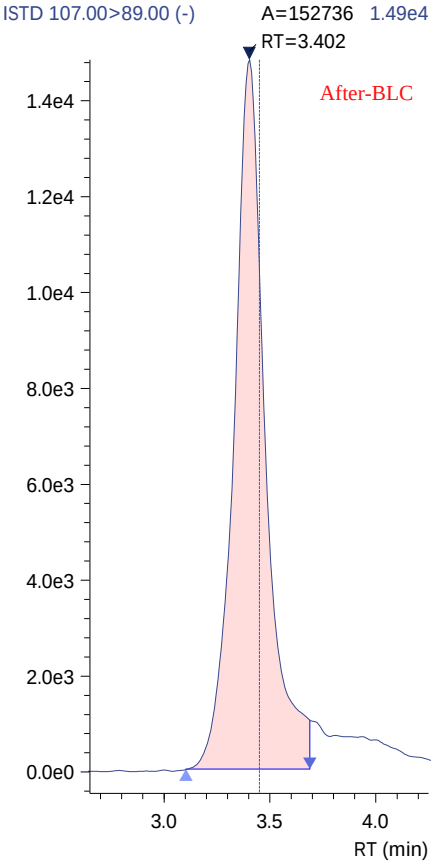
Conc 12.4440
R#1 34.48 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

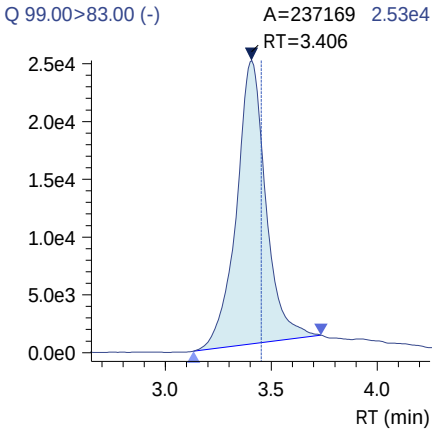
Printed at 7/11/2024 11:51:53 AM

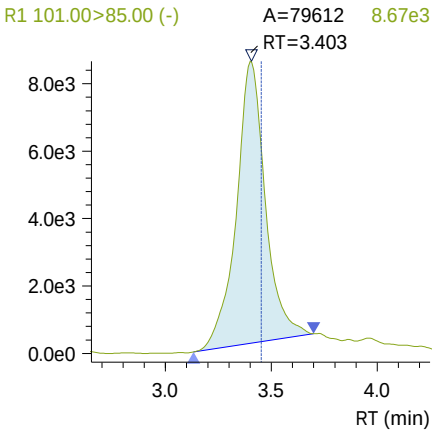
E2400734-021X100

Sample ID: E2400734-021X100
Date Acquired: 7/10/2024 5:35:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-038.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 2

Perchlorate

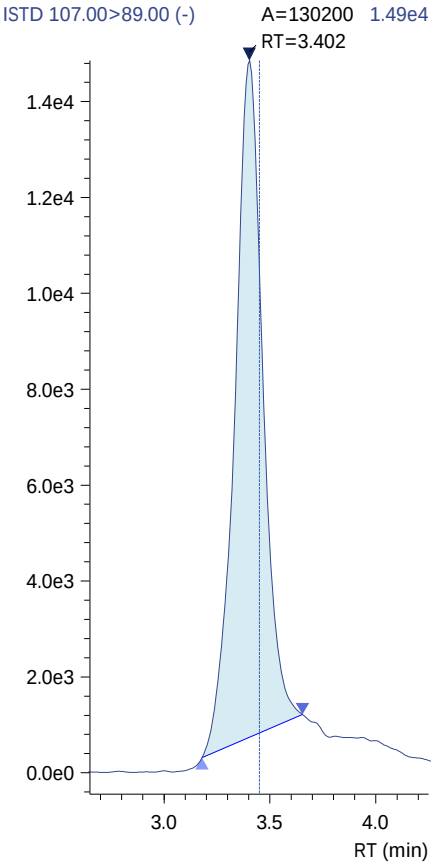
Conc 12.4761
R#1 33.57 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:12 AM

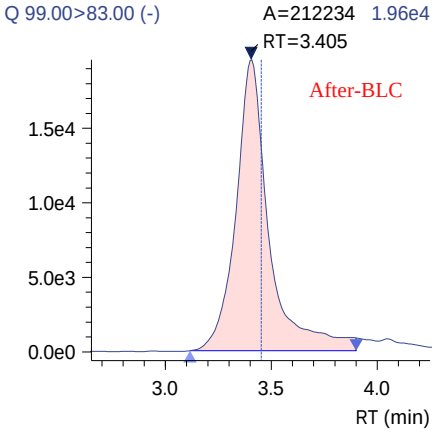
E2400734-023X10

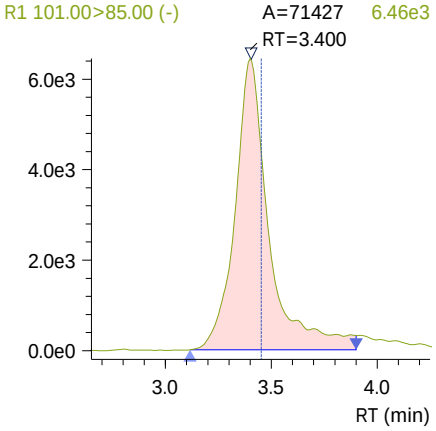
Sample ID: E2400734-023X10
Date Acquired: 7/10/2024 5:41:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-039.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.405	2122 34	166647	8.7227	ng/mL	101.00 >85.00	33.66	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.403	1666 47	166647	1.0000	ng/mL	----	----	

Perchlorate

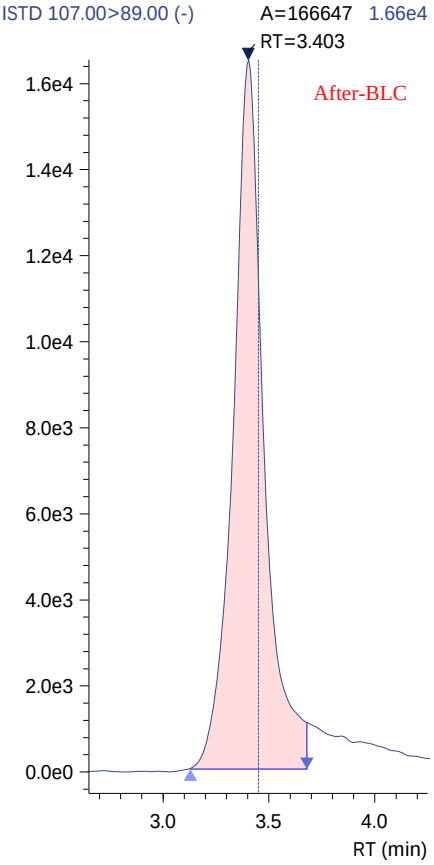
Conc 8.7227
R#1 33.66 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

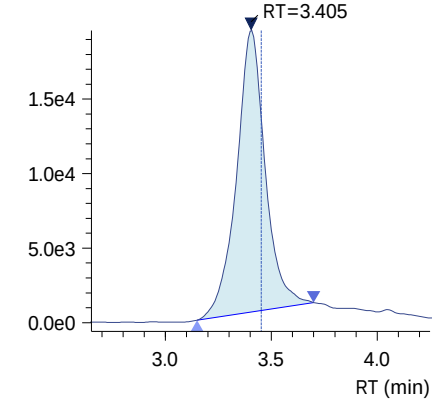
E2400734-023X10

Sample ID: E2400734-023X10
Date Acquired: 7/10/2024 5:41:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-039.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 2

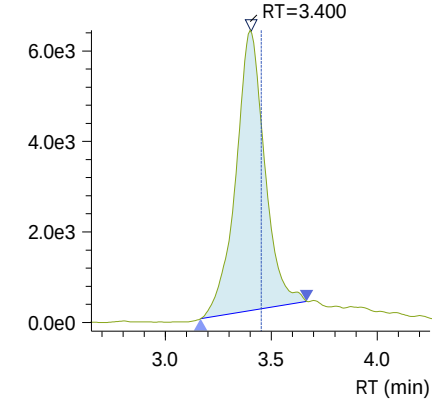
Perchlorate

Conc 8.3304
R#1 33.01 (35.24)

Q 99.00>83.00 (-) A=178016 1.96e4



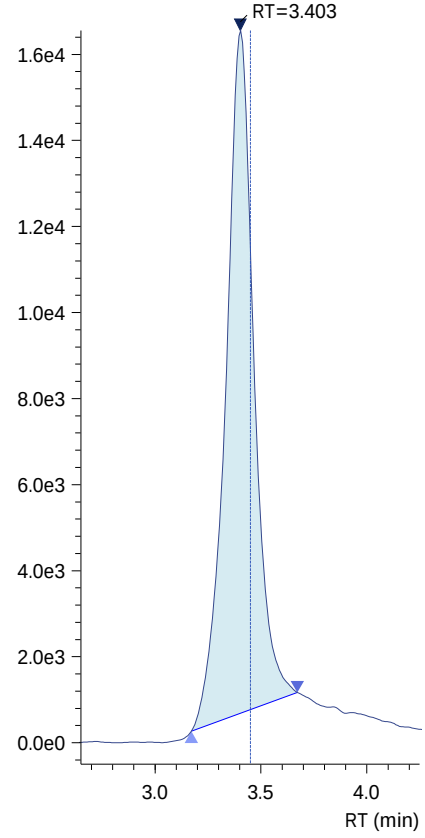
R1 101.00>85.00 (-) A=58767 6.46e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=146362 1.66e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

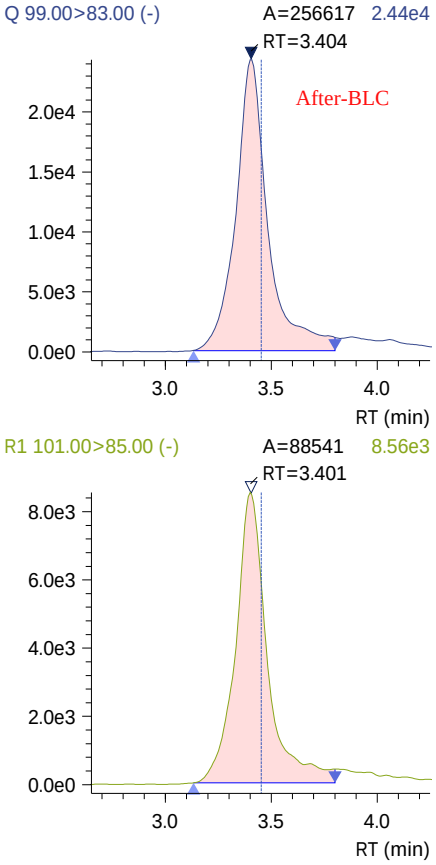
CCV

Sample ID: CCV
Date Acquired: 7/10/2024 5:46:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-040.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.404	256617	173977	10.1024	ng/mL	101.00 >85.00	34.50	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.403	173977	173977	1.0000	ng/mL	----	----	

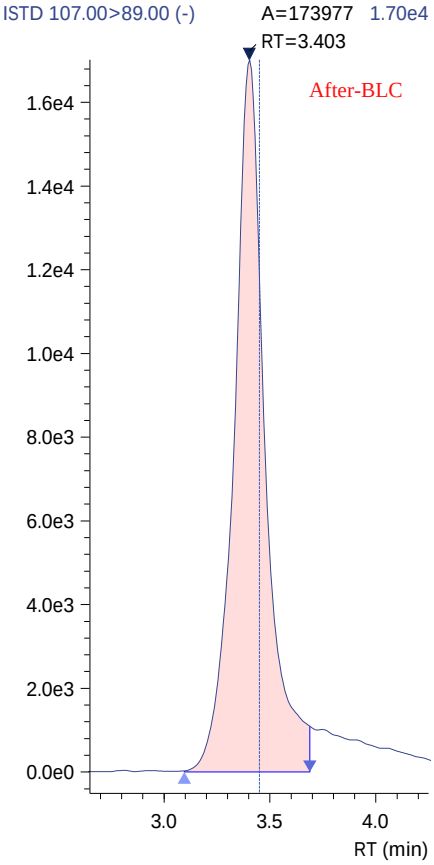
Perchlorate

Conc 10.1024
R#1 34.50 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

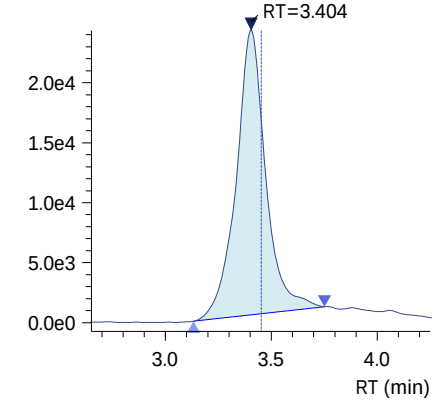
CCV

Sample ID: CCV
Date Acquired: 7/10/2024 5:46:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-040.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

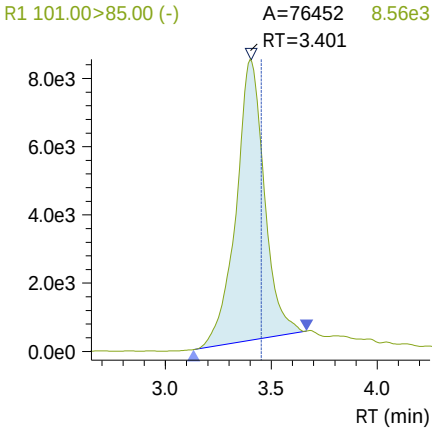
Perchlorate

Conc 10.5240
R#1 33.22 (35.24)

Q 99.00>83.00 (-) A=230145 2.44e4



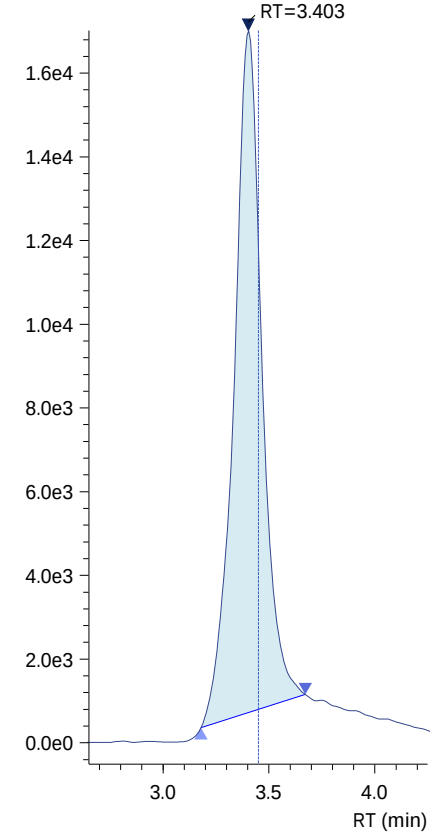
R1 101.00>85.00 (-) A=76452 8.56e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=149779 1.70e4



Insight Report

Printed at 7/11/2024 11:51:12 AM

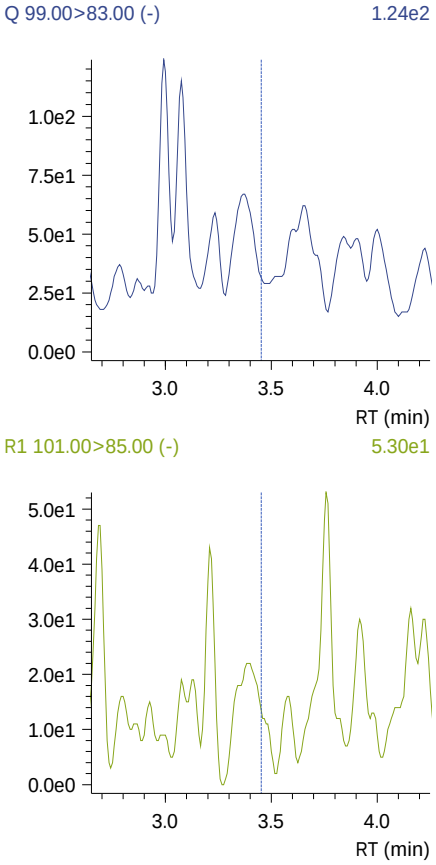
IB

Sample ID: IB
Date Acquired: 7/10/2024 5:52:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-041.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	173660	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.402	173660	173660	1.0000	ng/mL	----	----	

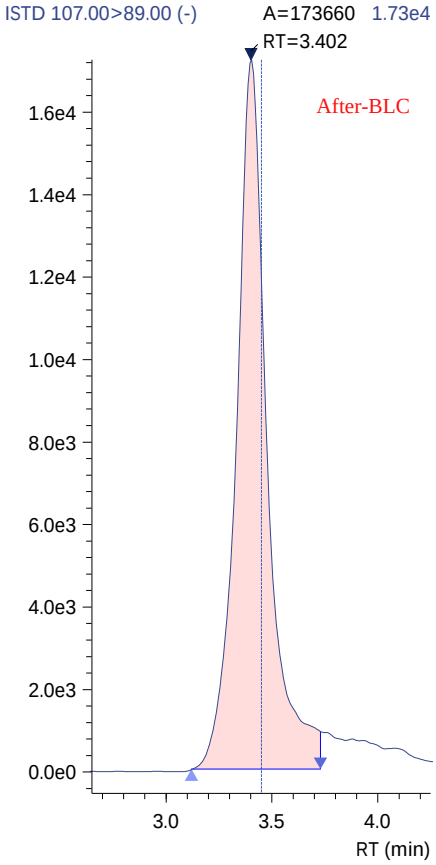
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:53 AM

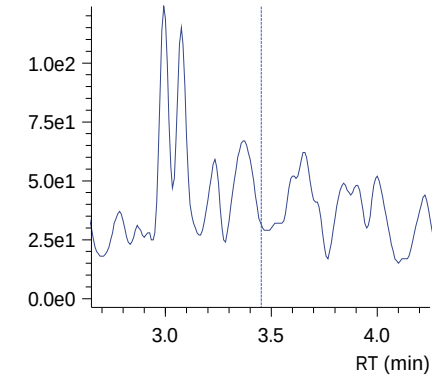
IB

Sample ID: IB
Date Acquired: 7/10/2024 5:52:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-041.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

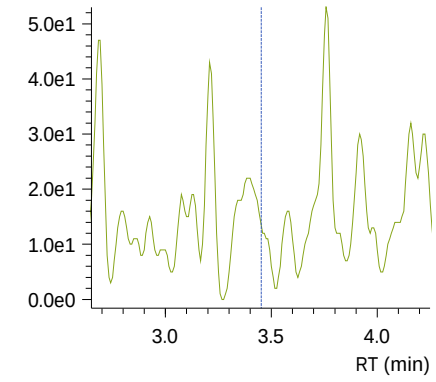
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.24e2



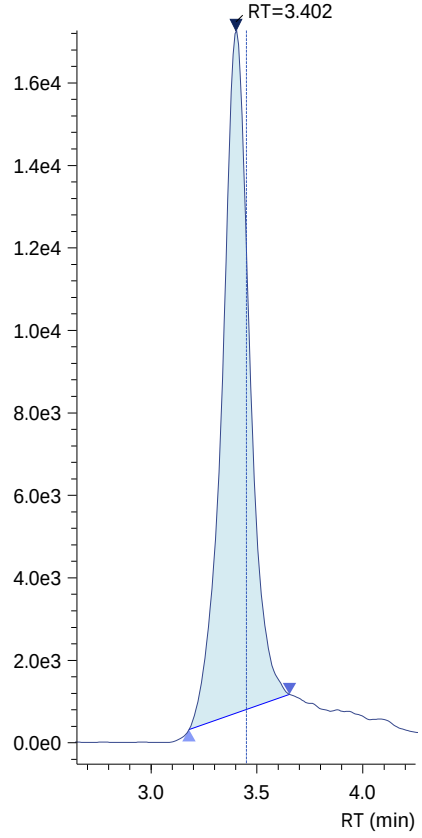
R1 101.00>85.00 (-) 5.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=149556 1.73e4
RT=3.402



Insight Report

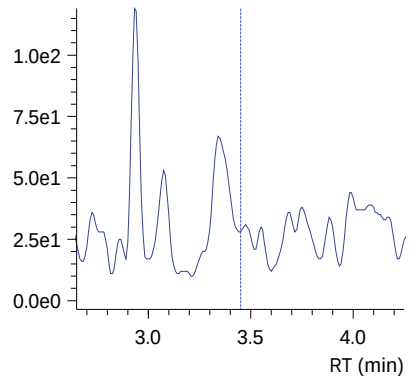
IB

Sample ID: IB
Date Acquired: 7/11/2024 11:28:17 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

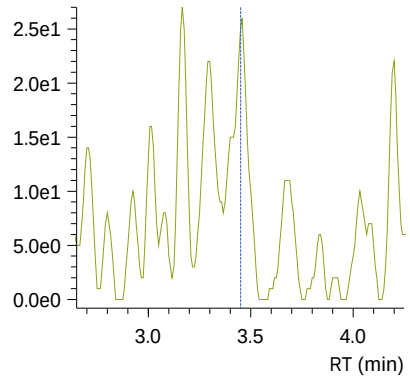
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.19e2



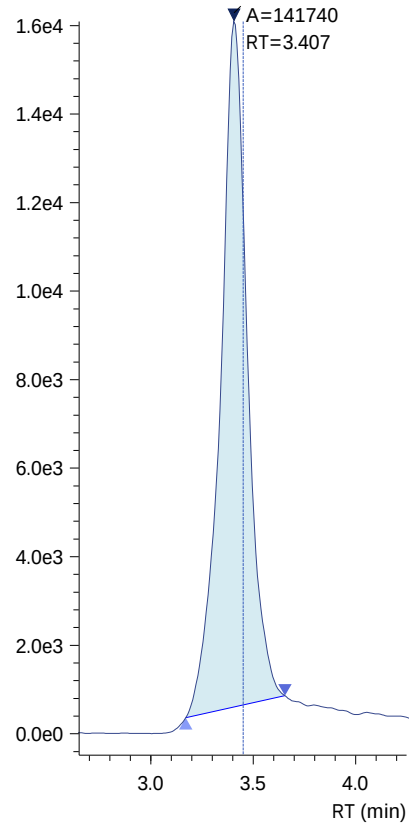
R1 101.00>85.00 (-) 2.70e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 7/11/2024 12:13:01 PM

Method File: I:\LCMS01\DATA\20240711\20240711.lcm
Project File: I:\LCMS01\DATA\20240711\20240711.damlp

IB

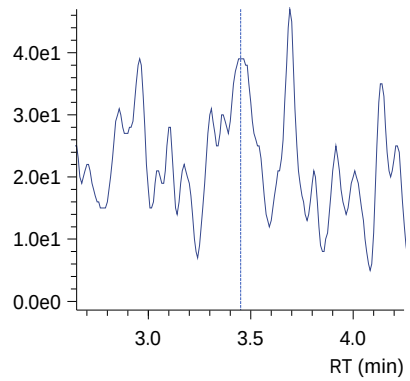
Sample ID: IB
Date Acquired: 7/11/2024 10:49:29 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	162301	----	ng/mL	101.00 >85.00	0.00	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.412	162301	162301	1.0000	ng/mL	----	----	

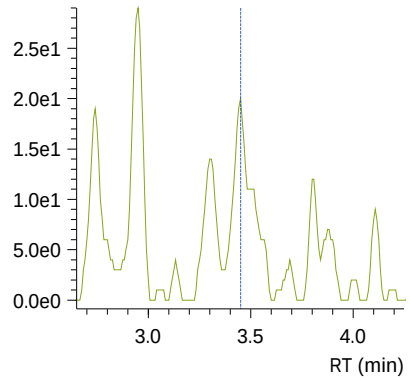
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 4.70e1



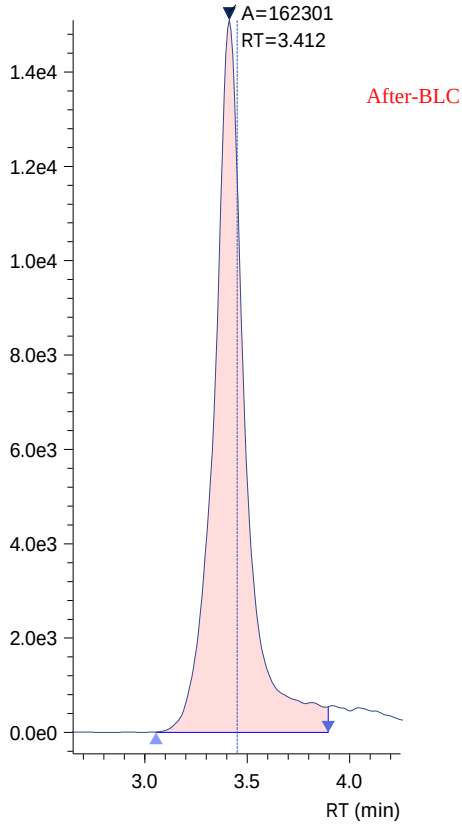
R1 101.00>85.00 (-) 2.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

Printed at 7/11/2024 12:13:33 PM

Method File: I:\LCMS01\DATA\20240711\20240711.lcm
Project File: I:\LCMS01\DATA\20240711\20240711.damlp

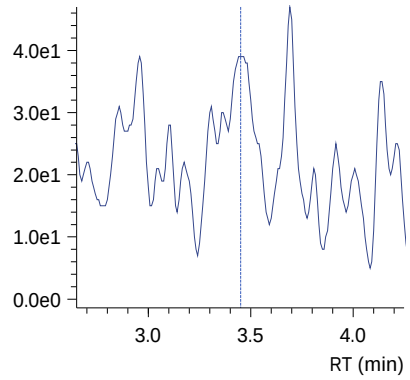
IB

Sample ID: IB
Date Acquired: 7/11/2024 10:49:29 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

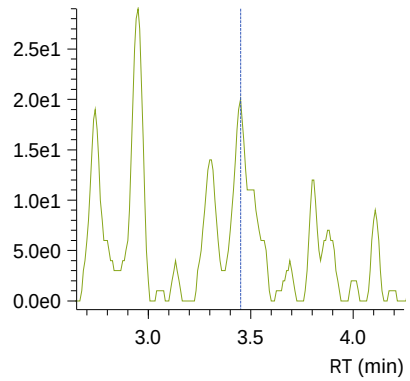
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 4.70e1



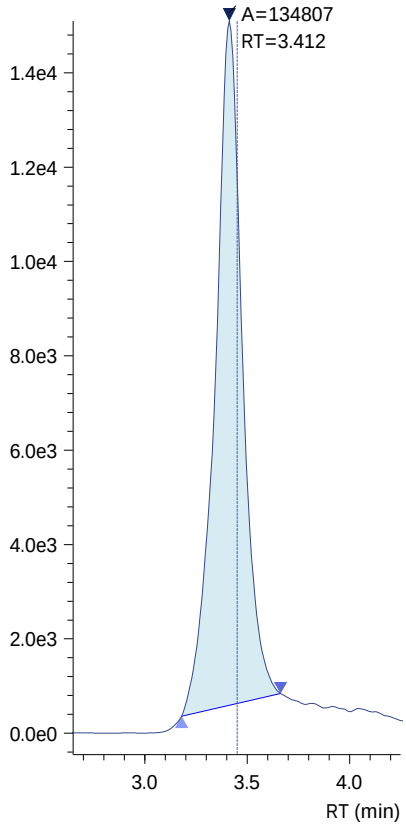
R1 101.00>85.00 (-) 2.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

Printed at 7/11/2024 12:13:01 PM

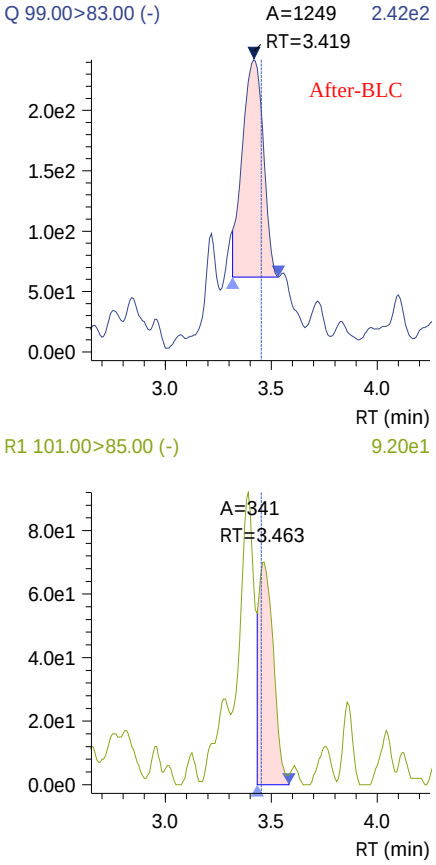
LODV

Sample ID: LODV
Date Acquired: 7/11/2024 10:55:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.419	1249	191601	0.0446	ng/mL	101.00 >85.00	27.33	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.411	191601	191601	1.0000	ng/mL	----	----	

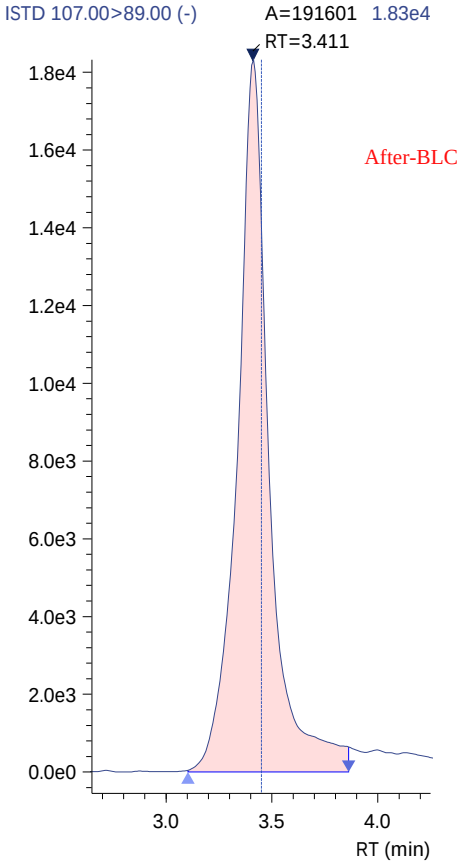
Perchlorate

Conc 0.0446
R#1 27.33 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 12:13:33 PM

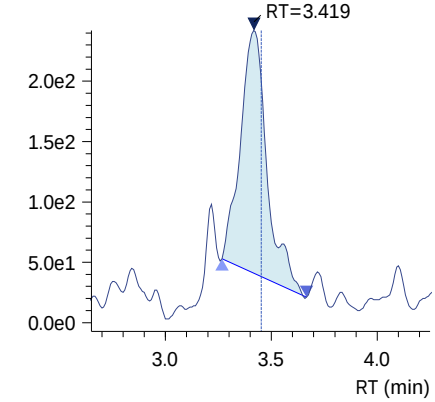
LODV

Sample ID: LODV
Date Acquired: 7/11/2024 10:55:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

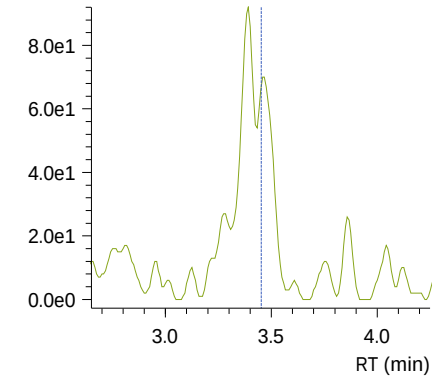
Perchlorate

Conc 0.0740
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1743 2.42e2
RT=3.419



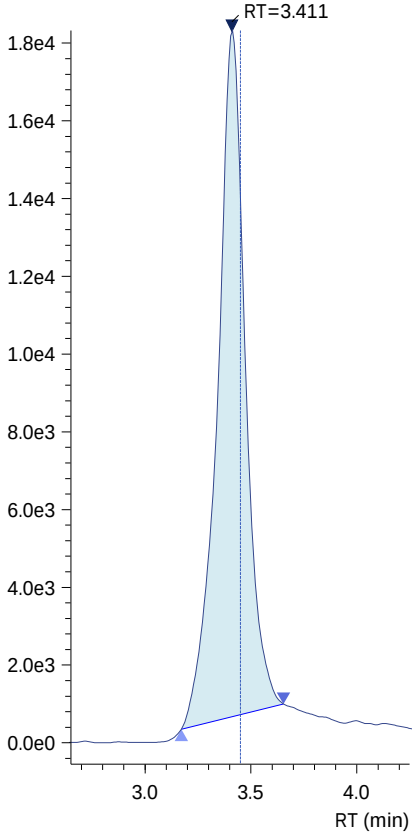
R1 101.00>85.00 (-) 9.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=161402 1.83e4
RT=3.411



Insight Report

Printed at 7/11/2024 12:13:01 PM

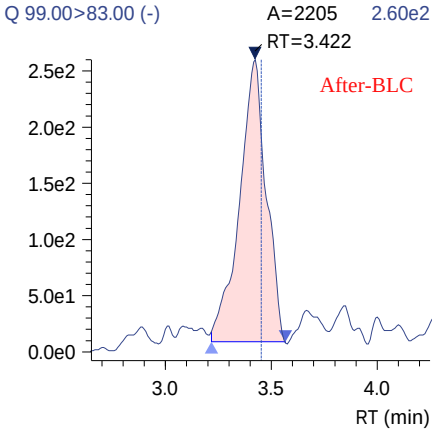
ICS

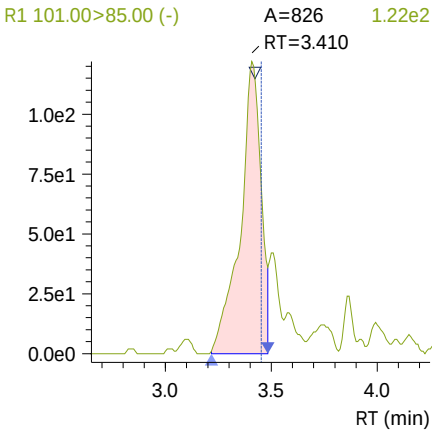
Sample ID: ICS
Date Acquired: 7/11/2024 11:00:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.422	2205	152315	0.0992	ng/mL	101.00 >85.00	37.47	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.412	1523 15	152315	1.0000	ng/mL	----	----	

Perchlorate

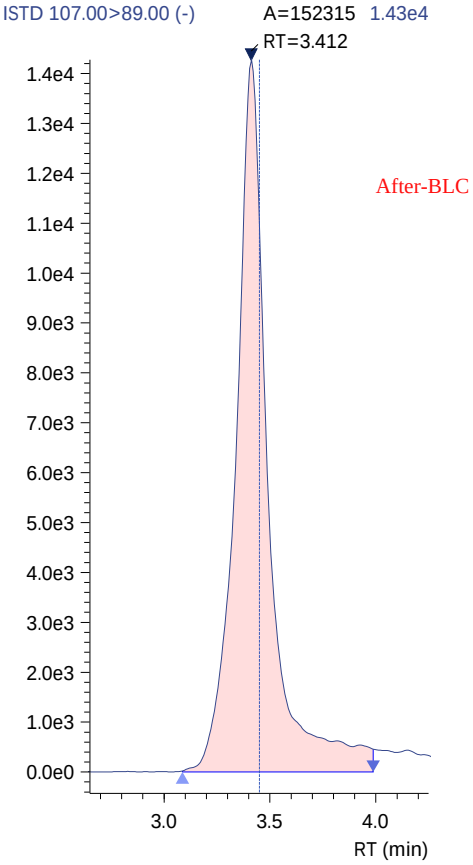
Conc 0.0992
R#1 37.47 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 12:13:33 PM

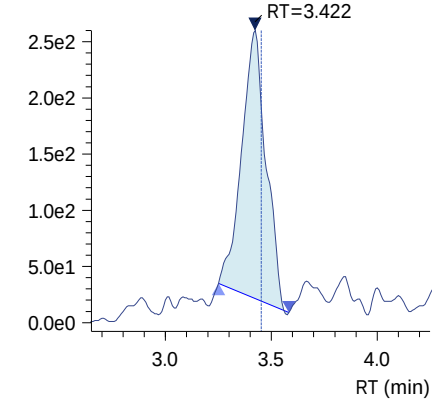
ICS

Sample ID: ICS
Date Acquired: 7/11/2024 11:00:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

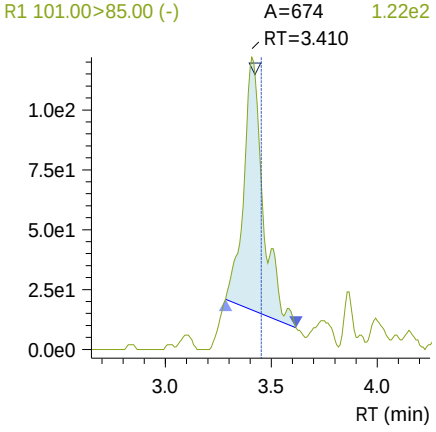
Perchlorate

Conc 0.1046
R#1 35.31 (35.24)

Q 99.00>83.00 (-) A=1909 2.60e2



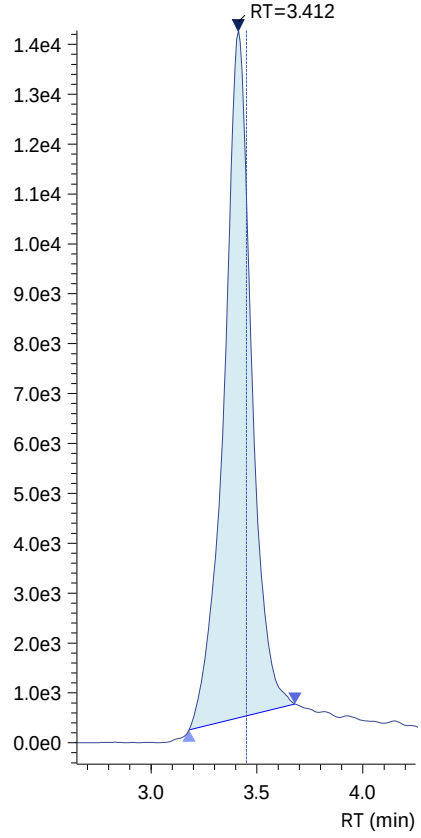
R1 101.00>85.00 (-) A=674 1.22e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=125032 1.43e4



Insight Report

Printed at 7/11/2024 12:13:01 PM

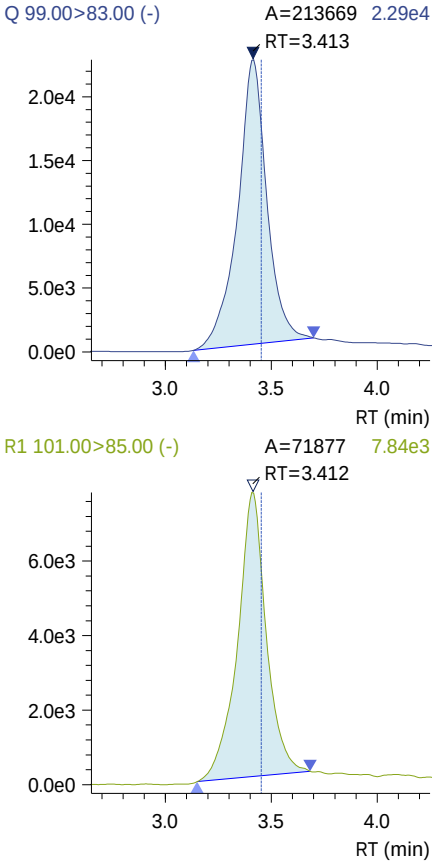
CCV

Sample ID: CCV
Date Acquired: 7/11/2024 11:06:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.413	213669	162123	9.0267	ng/mL	101.00 >85.00	33.64	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.409	162123	162123	1.0000	ng/mL	----	----	

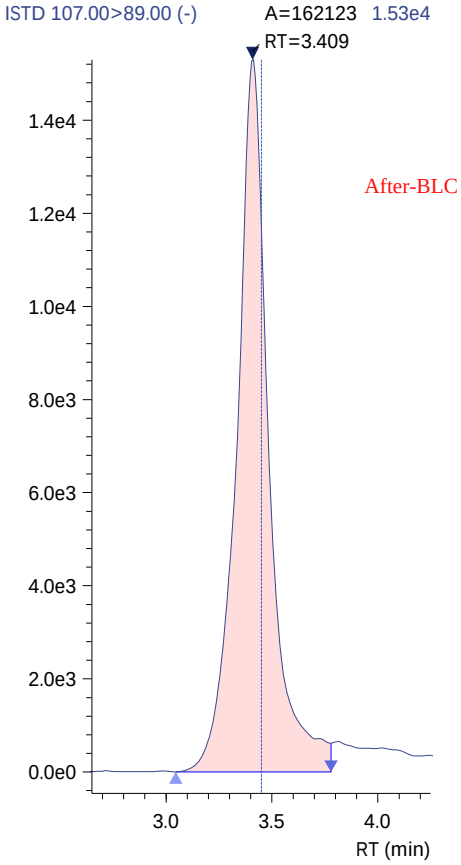
Perchlorate

Conc 9.0267
R#1 33.64 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 12:13:33 PM

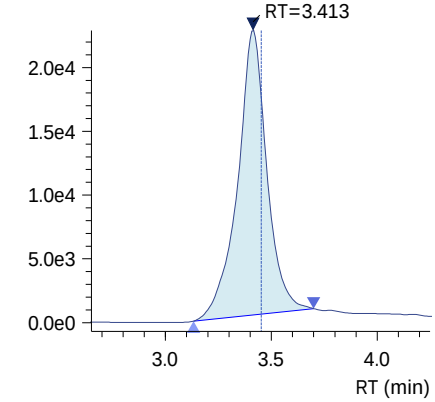
CCV

Sample ID: CCV
Date Acquired: 7/11/2024 11:06:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

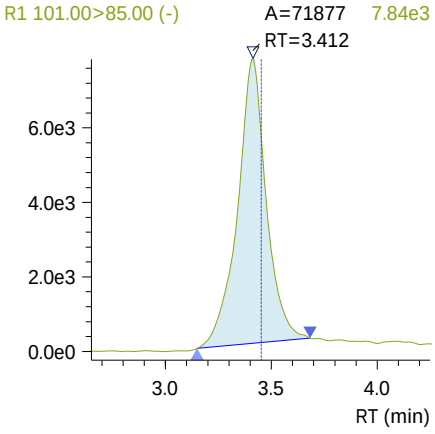
Perchlorate

Conc 10.4959
R#1 33.64 (35.24)

Q 99.00>83.00 (-) A=213669 2.29e4



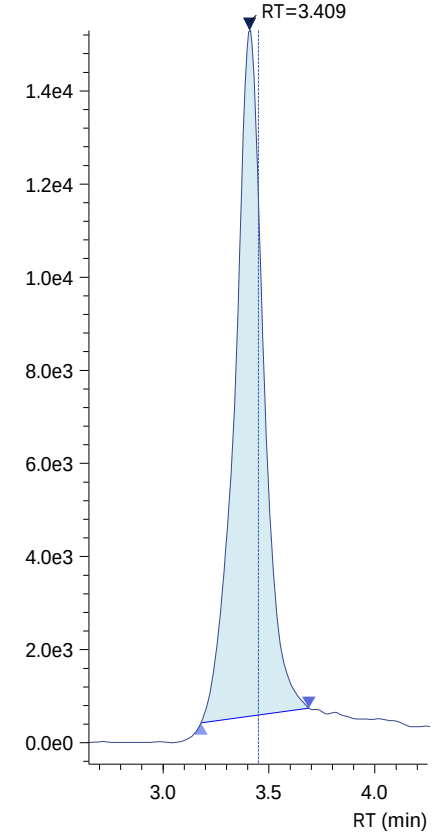
R1 101.00>85.00 (-) A=71877 7.84e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=139430 1.53e4



Insight Report

Printed at 7/11/2024 12:13:01 PM

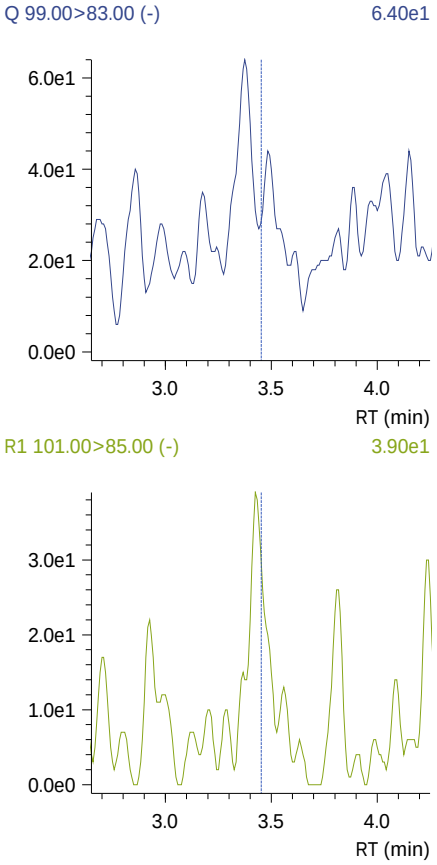
IB

Sample ID: IB
Date Acquired: 7/11/2024 11:11:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	164773	----	ng/mL	101.00 >85.00	0.00	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.409	164773	164773	1.0000	ng/mL	----	----	

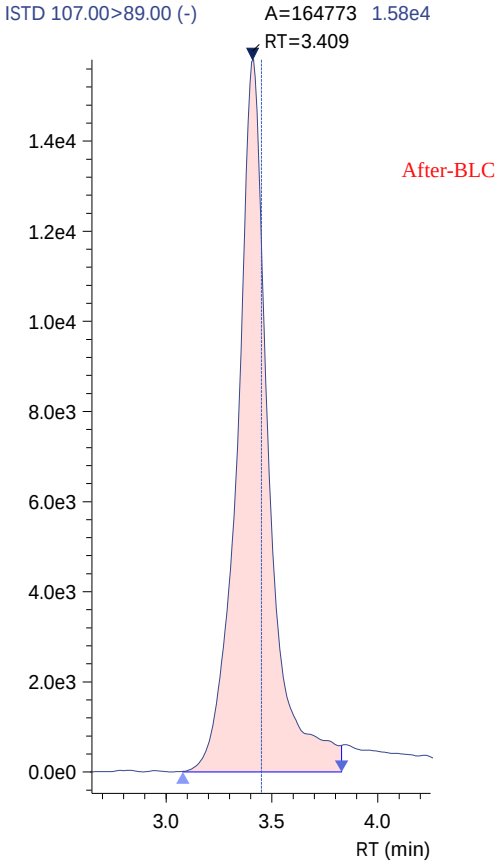
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 12:13:33 PM

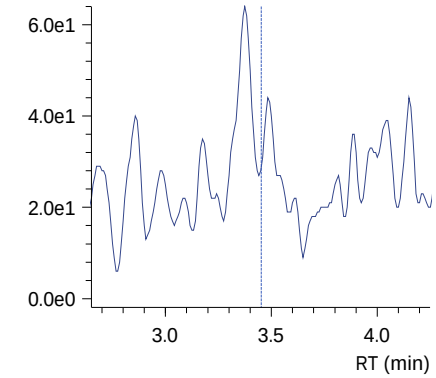
IB

Sample ID: IB
Date Acquired: 7/11/2024 11:11:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

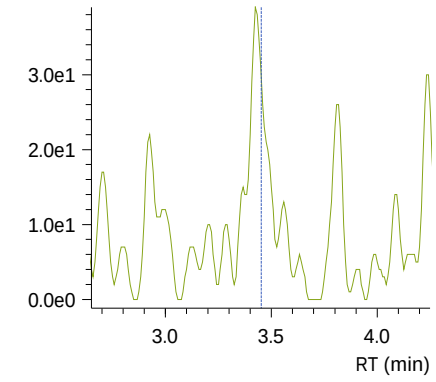
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.40e1



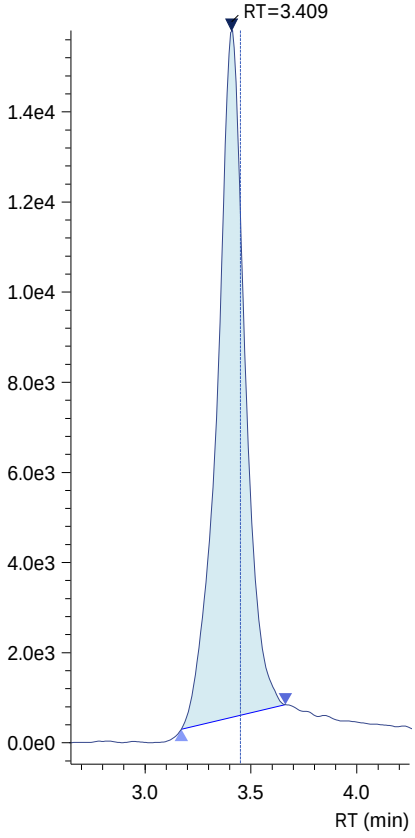
R1 101.00>85.00 (-) 3.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=140123 1.58e4
RT=3.409



Insight Report

Printed at 7/11/2024 12:13:01 PM

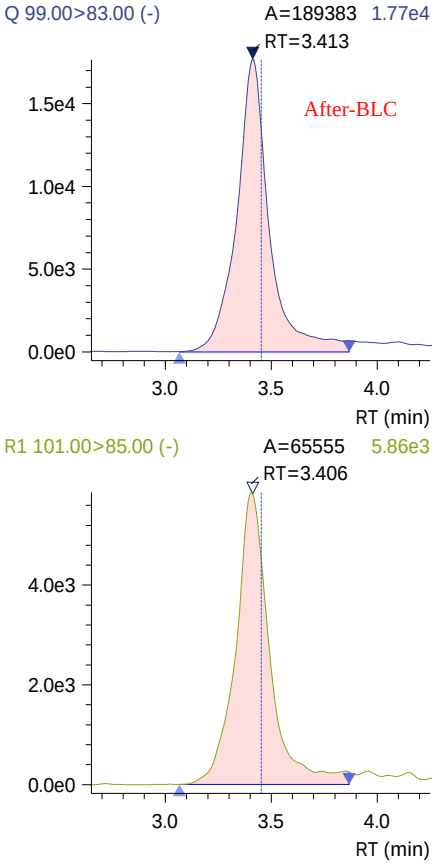
E2400734-012x10

Sample ID: E2400734-012x10
Date Acquired: 7/11/2024 11:17:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-006.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.413	189383	187966	6.9007	ng/mL	101.00 >85.00	34.62	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.409	187966	187966	1.0000	ng/mL	----	----	

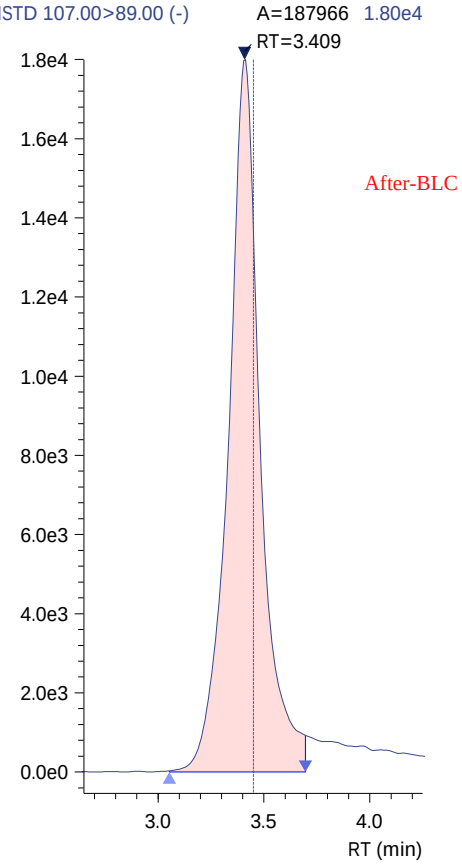
Perchlorate

Conc 6.9007
R#1 34.62 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 12:13:33 PM

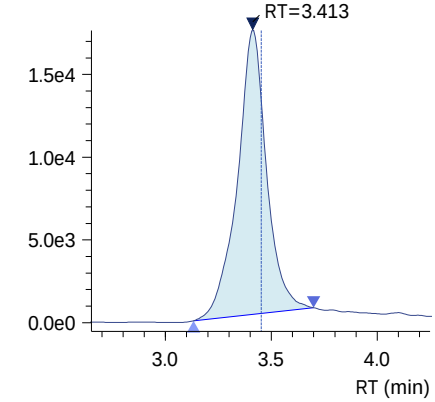
E2400734-012x10

Sample ID: E2400734-012x10
Date Acquired: 7/11/2024 11:17:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-006.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 2

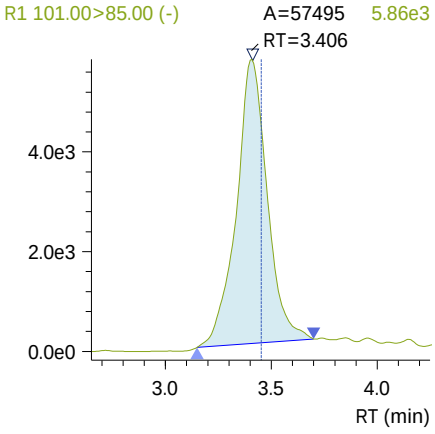
Perchlorate

Conc 6.8212
R#1 34.95 (35.24)

Q 99.00>83.00 (-) A=164527 1.77e4



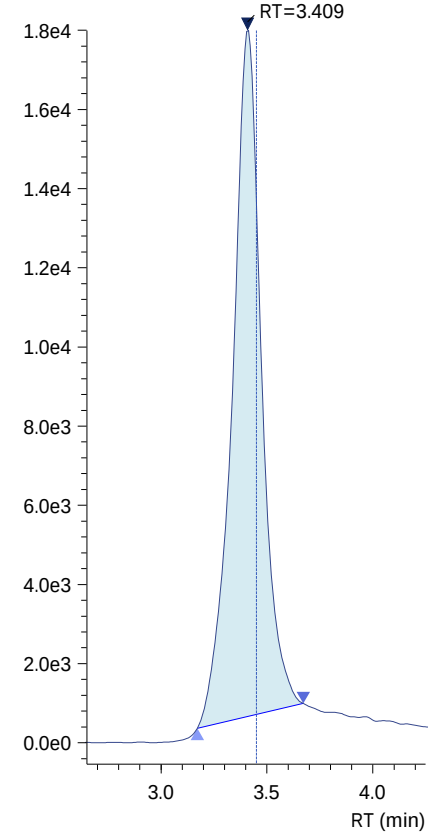
R1 101.00>85.00 (-) A=57495 5.86e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=165199 1.80e4



Insight Report

Printed at 7/11/2024 12:13:01 PM

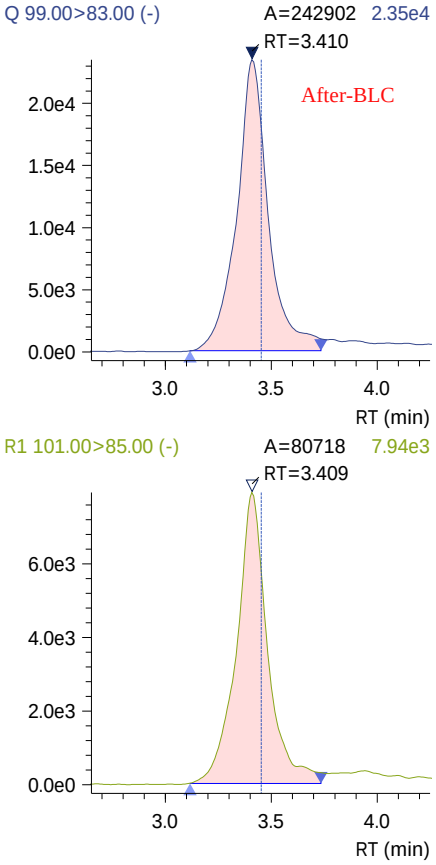
CCV

Sample ID: CCV
Date Acquired: 7/11/2024 11:22:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-007.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.410	242902	164615	10.1063	ng/mL	101.00 >85.00	33.23	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.409	164615	164615	1.0000	ng/mL	----	----	

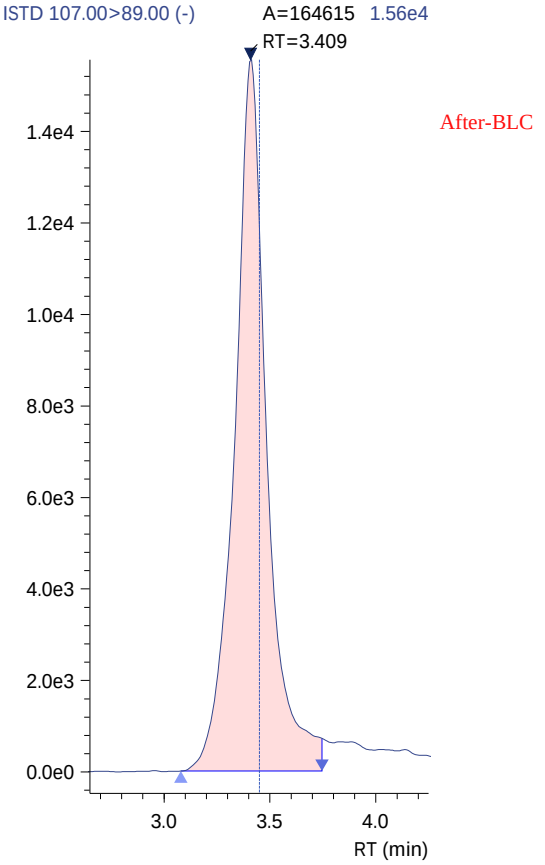
Perchlorate

Conc 10.1063
R#1 33.23 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 12:13:33 PM

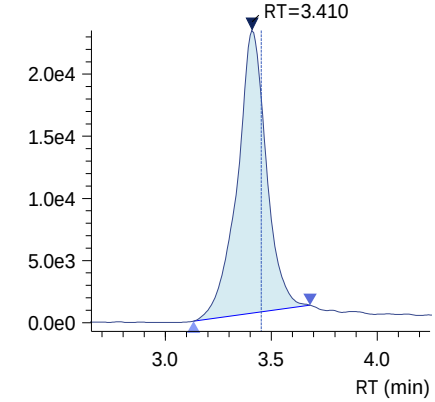
CCV

Sample ID: CCV
Date Acquired: 7/11/2024 11:22:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-007.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

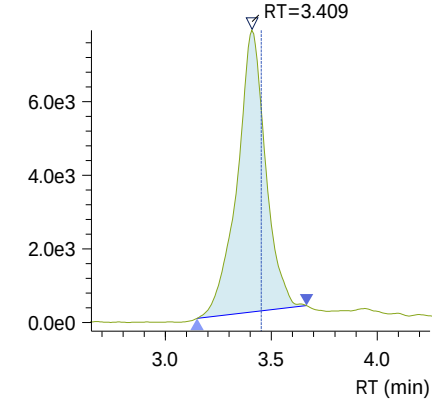
Perchlorate

Conc 10.6064
R#1 32.81 (35.24)

Q 99.00>83.00 (-) A=217829 2.35e4 RT=3.410



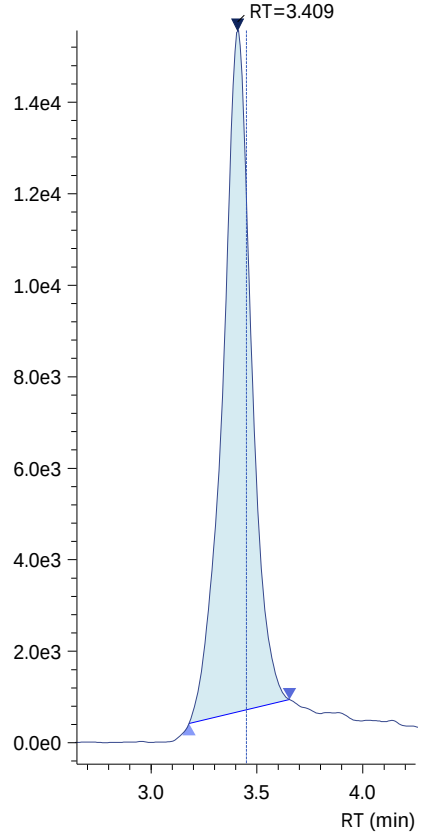
R1 101.00>85.00 (-) A=71475 7.94e3 RT=3.409



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=140663 1.56e4 RT=3.409



Insight Report

Printed at 7/11/2024 12:13:01 PM

IB

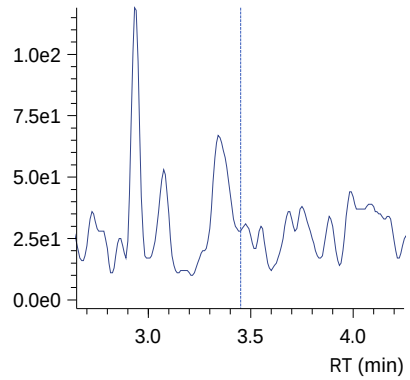
Sample ID: IB
Date Acquired: 7/11/2024 11:28:17 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240711\20240711-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	165637	----	ng/mL	101.00 >85.00	0.00	23.40 -43.47
Sodium Perchlorate-18O4_IS	M	3.407	165637	165637	1.0000	ng/mL	----	----	

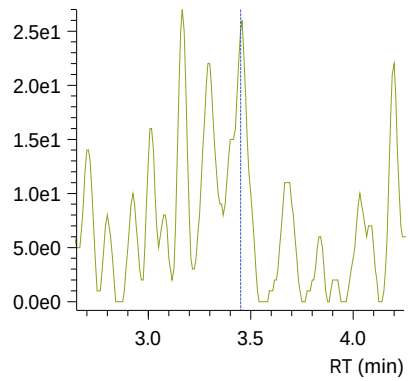
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.19e2



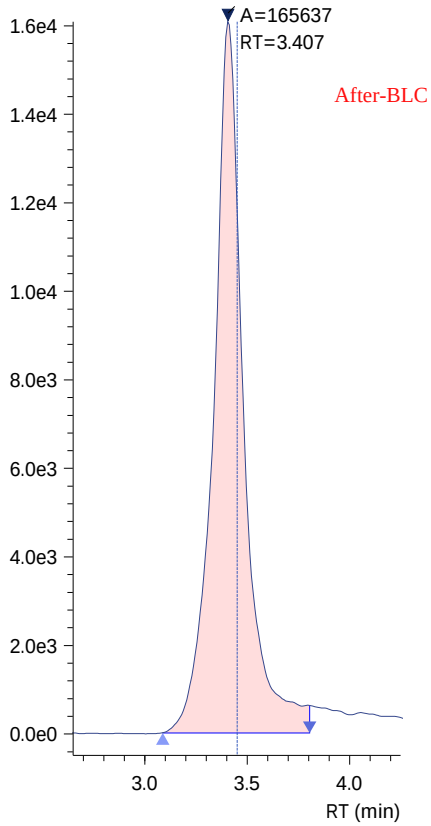
R1 101.00>85.00 (-) 2.70e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



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WorkOrder: HS24040221

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

01-May-2024

WorkOrder: HS24040221

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HS24040221 Longhorn GW Treatment Plant Weekly Samples Cover page

ALS WO# HS24040221

HS24040221 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS24040221

10450 Stancliff Rd. Suite 210
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April 08, 2024

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

Work Order: **HS24040221**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 4 sample(s) on Apr 03, 2024 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: JUMOKE.LAWAL
luis.aguilar

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24040221

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24040221-01	LH18/24-SP650_040224	Water		02-Apr-2024 13:00	03-Apr-2024 10:10	☐
HS24040221-02	LH18/24-SP650_040224_BIX	Water		02-Apr-2024 13:00	03-Apr-2024 10:10	☐
HS24040221-03	LH18/24-SP650_040224_AIX	Water		02-Apr-2024 13:00	03-Apr-2024 10:10	☐
HS24040221-04	LH18/24-SP650_040224_Between	Water		02-Apr-2024 13:00	03-Apr-2024 10:10	☐

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24040221

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E350.3

Batch ID: R463051

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

WetChemistry by Method E415.1

Batch ID: R463014

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

WetChemistry by Method E365.3

Batch ID: R462980

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

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24040221
Sample ID: LH18/24-SP650_040224
Lab ID:HS24040221-01
Collection Date: 02-Apr-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: MM
Nitrogen, Ammonia (As N)	**46**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	04-Apr-2024 12:12
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: MM
Phosphorus, Total Orthophosphate (As P)	**3.65**	a	**0.100**	**0.250**	**0.250**	**mg/L**	10	03-Apr-2024 17:38
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**3.76**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	03-Apr-2024 22:05

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

ALS Houston, US Date: 08-Apr-24

Client:	Bhate Environmental Associates, Inc.	**ANALYTICAL REPORT**
Project:	Longhorn GW Treatment Plant Weekly Samples	WorkOrder:HS24040221
Sample ID:	LH18/24-SP650_040224_BIX	Lab ID:HS24040221-02
Collection Date:	02-Apr-2024 13:00	Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	08-Apr-2024 16:56

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

ALS Houston, US Date: 08-Apr-24

Client:	Bhate Environmental Associates, Inc.	**ANALYTICAL REPORT**
Project:	Longhorn GW Treatment Plant Weekly Samples	WorkOrder:HS24040221
Sample ID:	LH18/24-SP650_040224_AIX	Lab ID:HS24040221-03
Collection Date:	02-Apr-2024 13:00	Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	08-Apr-2024 16:56

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

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24040221
Sample ID: LH18/24-SP650_040224_Between
Lab ID:HS24040221-04
Collection Date: 02-Apr-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	08-Apr-2024 16:56

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

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040221

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R462980 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24040221-01	LH18/24-SP650_040224	02 Apr 2024 13:00			03 Apr 2024 17:38	10
Batch ID: R463014 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24040221-01	LH18/24-SP650_040224	02 Apr 2024 13:00			03 Apr 2024 22:05	1
Batch ID: R463051 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24040221-01	LH18/24-SP650_040224	02 Apr 2024 13:00			04 Apr 2024 12:12	1
Batch ID: R463397 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24040221-02	LH18/24-SP650_040224_BIX	02 Apr 2024 13:00			08 Apr 2024 16:56	1
HS24040221-03	LH18/24-SP650_040224_AIX	02 Apr 2024 13:00			08 Apr 2024 16:56	1
HS24040221-04	LH18/24-SP650_040224_Between	02 Apr 2024 13:00			08 Apr 2024 16:56	1

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040221

QC BATCH REPORT

Batch ID: R462980 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R462980** Units: **mg/L** Analysis Date: **03-Apr-2024 17:38**
Client ID: Run ID: **UV-2450_462980** SeqNo: **7925548** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.0250	0.0250								U

LCS Sample ID: **LCS-R462980** Units: **mg/L** Analysis Date: **03-Apr-2024 17:38**
Client ID: Run ID: **UV-2450_462980** SeqNo: **7925547** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.214	0.0250	0.25	0	85.6	80 - 120				

MS Sample ID: **HS24040221-01MS** Units: **mg/L** Analysis Date: **03-Apr-2024 17:38**
Client ID: **LH18/24-SP650_040224** Run ID: **UV-2450_462980** SeqNo: **7925550** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	6.37	0.250	2.5	3.65	109	80 - 120				

MSD Sample ID: **HS24040221-01MSD** Units: **mg/L** Analysis Date: **03-Apr-2024 17:38**
Client ID: **LH18/24-SP650_040224** Run ID: **UV-2450_462980** SeqNo: **7925549** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	6.37	0.250	2.5	3.65	109	80 - 120	6.37	0	20	

The following samples were analyzed in this batch: HS24040221-01

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040221

QC BATCH REPORT

Batch ID: R463014 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 19:15**
Client ID: Run ID: **TOC_05_463014** SeqNo: **7926547** 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-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 19:31**
Client ID: Run ID: **TOC_05_463014** SeqNo: **7926548** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.16	1.00	10	0	102	85 - 115				

LCSD Sample ID: **LCSD-04032021** Units: **mg/L** Analysis Date: **03-Apr-2024 19:47**
Client ID: Run ID: **TOC_05_463014** SeqNo: **7926549** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.27	1.00	10	0	103	85 - 115	10.16	1.08	20	

MS Sample ID: **HS24040221-01MS** Units: **mg/L** Analysis Date: **03-Apr-2024 22:23**
Client ID: **LH18/24-SP650_040224** Run ID: **TOC_05_463014** SeqNo: **7926559** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	13.7	1.00	10	3.759	99.4	80 - 120				

The following samples were analyzed in this batch: HS24040221-01

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040221

QC BATCH REPORT

Batch ID: R463051 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK	Sample ID: **MBLK-R463051**			Units: **mg/L**		Analysis Date: **04-Apr-2024 12:12**				
Client ID:		Run ID: **WetChem_HS_463051**		SeqNo: **7927342**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	0.20	0.20								U
LCS	Sample ID: **LCS-R463051**			Units: **mg/L**		Analysis Date: **04-Apr-2024 12:12**				
Client ID:		Run ID: **WetChem_HS_463051**		SeqNo: **7927341**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10.22	0.20	10	0	102	80 - 120				
MS	Sample ID: **HS24040127-01MS**			Units: **mg/L**		Analysis Date: **04-Apr-2024 12:12**				
Client ID:		Run ID: **WetChem_HS_463051**		SeqNo: **7927347**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	15.33	0.20	10	4.415	109	80 - 120				
MSD	Sample ID: **HS24040127-01MSD**			Units: **mg/L**		Analysis Date: **04-Apr-2024 12:12**				
Client ID:		Run ID: **WetChem_HS_463051**		SeqNo: **7927346**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	15.38	0.20	10	4.415	110	80 - 120	15.33	0.313	20	

The following samples were analyzed in this batch: HS24040221-01

ALS Houston, US Date: 08-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24040221**

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
California	2919; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 08-Apr-24

Sample Receipt Checklist

Work Order ID: HS24040221 **Date/Time Received:** 03-Apr-2024 10:10

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

Completed By: /S/ Belinda Gomez 03-Apr-2024 15:49 **Reviewed by:** /S/ luis.aguilar 04-Apr-2024 09:02

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):	2.0uc/1.9c	ir31	
Cooler(s)/Kit(s):	50801		
Date/Time sample(s) sent to storage:	4/3/24 1550		
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:

HS24040221

CHAIN OF CUSTODY

Bhate Environmental Associates. Inc.
Longhorn GW Treatment Plant Weekly Samples

Name Of Lab Shipping To: ALS, 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: James Guin

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE	An:						Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_040224	Water	04/02/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_040224	Water	04/02/24 / 13:00		1			X								NONE	
LH18/24--SP650_040224_BIX	Water	04/02/24 / 13:00		1				X							NONE	
LH18/24- SP650_040224_AIX	Water	04/02/24 / 13:00		1				X							NONE	
LH18/24-SP650_040224_Between	Water	04/02/24 / 13:00		1				X							NONE	

Additional Remarks: **24 HR. TAT on Perchlorate Samples. Standard TAT on all other parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	04/02/24	13:30							SM 04/03/24	10:10	

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

Coolers 50801 Temp Blank 3.1 2.0 UF-01

(Word) S:\I-oes\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5

50801

CUSTODY SEAL	Seal Broken By:
Date: 4/2/24 Time: 1330	Date: 04/03/24
Name: Scott Beesinger	
Company: Bhate	

50801 APR 0 3 2024

Must Deliver Next Business Day
Time and Tempature Sensitive!

50801

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE., PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 21NOV23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3755
DIMS: 26x14x14 IN

TO SAMPLE RECEIVING
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP=58-JG

RMA:

FedEx Express

FedEx Trk# 0221 6862 6799 2849

WED - 03 APR AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX US
IAH

April 08, 2024 Service Request No:E2400329

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040221

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 03, 2024
For your reference, these analyses have been assigned our service request number **E2400329.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400329
Project:	HS24040221	**Date Received:**	04/03/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three samples were received for analysis at ALS Environmental in Houston on 04/03/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400169: 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:**E2400329
Project: HS24040221

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400329-001	LH18/24-SP650_040224_BIX	4/2/2024	1300
E2400329-002	LH18/24-SP650_040224_AIX	4/2/2024	1300
E2400329-003	LH18/24-SP650_040224_Between	4/2/2024	1300

Service Request Summary

Folder #: **E2400329**
Client Name: ALS Environmental - US
Project Name: HS24040221
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/03/24
Internal Due Date: 4/8/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400329-001	LH18/24-SP650_040224_BIX	Water	04/02/24 1300	**IV**
E2400329-002	LH18/24-SP650_040224_AIX	Water	04/02/24 1300	**IV**
E2400329-003	LH18/24-SP650_040224_Between	Water	04/02/24 1300	**IV**

Service Request Summary

Folder #: **E2400329**
Client Name: ALS Environmental - US
Project Name: HS24040221
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/03/24
Internal Due Date: 4/8/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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

E2400329 5
ALS Environmental - US
HS24040221

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:** **25244**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	luis.aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24040221
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040221-02**	**LH18/24-SP650_040224_BIX**	**Water**	**02 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			04 Apr 2024
2.	**HS24040221-03**	**LH18/24-SP650_040224_AIX**	**Water**	**02 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			04 Apr 2024
3.	**HS24040221-04**	**LH18/24-SP650_040224_Between**	**Water**	**02 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			04 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

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

E2400329 5
ALS Environmental - US
HS24040221

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

Sample Receipt Checklist

Work Order ID: HS24040221 **Date/Time received:** 03 Apr 2024 10:10

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 03 Apr 2024 15:49 (Date/Time) Belinda Gomez (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **Carrier name:** FedEx

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

Temperature(s)/Thermometer(s): 2.0uc/1.9c ir31

Cooler Information: 1 Cooler(s), 50801

Date/Time sample(s) sent to storage: 4/3/24 1550

Water - VOA vials have zero headspace?	☐ Yes	☐ No	☑ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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

Preparation Information Benchsheet

Prep Run#: 436550 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/8/24 08:34

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400296-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400296-002	2403191450X PL-8-455	.01	6850/ClO4 DOD			Water	10mL	
3	E2400296-003	2403200956B PL-2-504	.01	6850/ClO4 DOD			Water	10mL	
4	E2400319-001	LGAC-INF-040124	.02	6850/ClO4 DOD			Water	10mL	
5	E2400325-001	M114MW001-S	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2400329-001	LH18/24-SP650_040224_BIX	.01	6850/ClO4 DOD			Water	10mL	
7	E2400329-002	LH18/24-SP650_040224_AIX	.01	6850/ClO4 DOD			Water	10mL	
8	E2400329-003	LH18/24-SP650_040224_Between	.01	6850/ClO4 DOD			Water	10mL	
9	E2400332-002	2404011337A JP-1-424	.01	6850/ClO4 DOD			Water	10mL	
10	EQ2400169-01	MB		6850/ClO4 DOD			Liquid	10mL	
11	EQ2400169-02	LCS		6850/ClO4 DOD			Liquid	10mL	
12	EQ2400169-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
13	EQ2400169-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400169-02 10.00µL EQ2400169-03 10.00µL EQ2400169-04 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400296-001 100.00µL E2400296-002 100.00µL E2400296-003 100.00µL E2400319-001 100.00µL E2400325-001 100.00µL E2400329-001 100.00µL
E2400329-002 100.00µL E2400329-003 100.00µL E2400332-002 100.00µL EQ2400169-01 100.00µL EQ2400169-02 100.00µL EQ2400169-03 100.00µL
EQ2400169-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400169-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 4/8/24 08:34
Finished: 4/8/24 14:19
By: JOSEL.JUAREZ
Comments

Preparation Information Benchsheet

Prep Run#: 436550 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/8/24 08:34

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	4/ 2/24 1300
Sample Matrix:	Water	**Date Received:**	4/ 3/24
Sample Name:	LH18/24-SP650_040224_BIX	**Units:**	µg/L
Lab Code:	E2400329-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**3.37**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 12:47	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	4/ 2/24 1300
Sample Matrix:	Water	**Date Received:**	4/ 3/24
Sample Name:	LH18/24-SP650_040224_AIX	**Units:**	µg/L
Lab Code:	E2400329-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.196**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 12:53	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	4/ 2/24 1300
Sample Matrix:	Water	**Date Received:**	4/ 3/24
Sample Name:	LH18/24-SP650_040224_Between	**Units:**	µg/L
Lab Code:	E2400329-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0640**	J	0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 12:58	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400169-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

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	4/ 8/24	4/8/24 10:45	436550	837147	

Accuracy & Precision

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040221
Sample Matrix: Water

Service Request: E2400329
Date Analyzed: 4/ 8/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method:

Units: µg/L
Basis: NA

Extraction Lot: 436550

	Lab Control Sample EQ2400169-02			Duplicate Lab Control Sample EQ2400169-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.116	0.100	116	0.111	0.100	111	84 - 119	5	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:**	E2400329
Project:	HS24040221	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400169-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.116**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 10:51	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400169-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.111**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 10:56	436550	837147	

HS24040221 E2400329 Perchlorate Level IV Report

ALS WO# HS24040221

April 09, 2024 Service Request No:E2400329

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040221

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 03, 2024
For your reference, these analyses have been assigned our service request number **E2400329.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400329
Project:	HS24040221	**Date Received:**	04/03/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three samples were received for analysis at ALS Environmental in Houston on 04/03/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400169: 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:**E2400329
Project: HS24040221

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400329-001	LH18/24-SP650_040224_BIX	4/2/2024	1300
E2400329-002	LH18/24-SP650_040224_AIX	4/2/2024	1300
E2400329-003	LH18/24-SP650_040224_Between	4/2/2024	1300

Service Request Summary

Folder #: **E2400329**
Client Name: ALS Environmental - US
Project Name: HS24040221
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/03/24
Internal Due Date: 4/8/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400329-001	LH18/24-SP650_040224_BIX	Water	04/02/24 1300	**IV**
E2400329-002	LH18/24-SP650_040224_AIX	Water	04/02/24 1300	**IV**
E2400329-003	LH18/24-SP650_040224_Between	Water	04/02/24 1300	**IV**

Service Request Summary

Folder #: **E2400329**
Client Name: ALS Environmental - US
Project Name: HS24040221
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/03/24
Internal Due Date: 4/8/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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

E2400329 5
ALS Environmental - US
HS24040221

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:** 25244

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	luis.aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24040221
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040221-02**	**LH18/24-SP650_040224_BIX**	**Water**	**02 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			04 Apr 2024
2.	**HS24040221-03**	**LH18/24-SP650_040224_AIX**	**Water**	**02 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			04 Apr 2024
3.	**HS24040221-04**	**LH18/24-SP650_040224_Between**	**Water**	**02 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			04 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

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

E2400329 5
ALS Environmental - US
HS24040221

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

Sample Receipt Checklist

Work Order ID: HS24040221 **Date/Time received:** 03 Apr 2024 10:10

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 03 Apr 2024 15:49 (Date/Time) Belinda Gomez (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **Carrier name:** FedEx

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

Temperature(s)/Thermometer(s): 2.0uc/1.9c ir31

Cooler Information: 1 Cooler(s), 50801

Date/Time sample(s) sent to storage: 4/3/24 1550

Water - VOA vials have zero headspace?	☐ Yes	☐ No	☑ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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Houston, TX 77099
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www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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

Preparation Information Benchsheet

Prep Run#: 436550 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/8/24 08:34

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400296-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400296-002	2403191450X PL-8-455	.01	6850/ClO4 DOD			Water	10mL	
3	E2400296-003	2403200956B PL-2-504	.01	6850/ClO4 DOD			Water	10mL	
4	E2400319-001	LGAC-INF-040124	.02	6850/ClO4 DOD			Water	10mL	
5	E2400325-001	M114MW001-S	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2400329-001	LH18/24-SP650_040224_BIX	.01	6850/ClO4 DOD			Water	10mL	
7	E2400329-002	LH18/24-SP650_040224_AIX	.01	6850/ClO4 DOD			Water	10mL	
8	E2400329-003	LH18/24-SP650_040224_Between	.01	6850/ClO4 DOD			Water	10mL	
9	E2400332-002	2404011337A JP-1-424	.01	6850/ClO4 DOD			Water	10mL	
10	EQ2400169-01	MB		6850/ClO4 DOD			Liquid	10mL	
11	EQ2400169-02	LCS		6850/ClO4 DOD			Liquid	10mL	
12	EQ2400169-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
13	EQ2400169-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400169-02 10.00µL EQ2400169-03 10.00µL EQ2400169-04 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400296-001 100.00µL E2400296-002 100.00µL E2400296-003 100.00µL E2400319-001 100.00µL E2400325-001 100.00µL E2400329-001 100.00µL
E2400329-002 100.00µL E2400329-003 100.00µL E2400332-002 100.00µL EQ2400169-01 100.00µL EQ2400169-02 100.00µL EQ2400169-03 100.00µL
EQ2400169-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400169-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 4/8/24 08:34
Finished: 4/8/24 14:19
By: JOSEL.JUAREZ
Comments

Preparation Information Benchsheet

Prep Run#: 436550 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/8/24 08:34

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By:		Date:		Extracts Examined
Received By:		Date:		Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	4/ 2/24 1300
Sample Matrix:	Water	**Date Received:**	4/ 3/24
Sample Name:	LH18/24-SP650_040224_BIX	**Units:**	µg/L
Lab Code:	E2400329-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**3.37**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 12:47	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	4/ 2/24 1300
Sample Matrix:	Water	**Date Received:**	4/ 3/24
Sample Name:	LH18/24-SP650_040224_AIX	**Units:**	µg/L
Lab Code:	E2400329-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.196**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 12:53	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	4/ 2/24 1300
Sample Matrix:	Water	**Date Received:**	4/ 3/24
Sample Name:	LH18/24-SP650_040224_Between	**Units:**	µg/L
Lab Code:	E2400329-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0640**	J	0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 12:58	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400169-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

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	4/ 8/24	4/8/24 10:45	436550	837147	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
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www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040221
Sample Matrix: Water

Service Request: E2400329
Date Analyzed: 4/ 8/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method:

Units: µg/L
Basis: NA

Extraction Lot: 436550

	Lab Control Sample EQ2400169-02			Duplicate Lab Control Sample EQ2400169-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.116	0.100	116	0.111	0.100	111	84 - 119	5	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:**	E2400329
Project:	HS24040221	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400169-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.116**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 10:51	436550	837147	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400169-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.111**		0.100	0.0500	0.0250	1	4/ 8/24	4/8/24 10:56	436550	837147	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
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835280

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240328-001	IB	Perchlorate6850c.lcm	1x		3/28/2024 18:50
2	20240328-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	3/28/2024 18:56
3	20240328-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	3/28/2024 19:01
4	20240328-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	3/28/2024 19:07
5	20240328-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	3/28/2024 19:12
6	20240328-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	3/28/2024 19:18
7	20240328-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	3/28/2024 19:23
8	20240328-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	3/28/2024 19:29
9	20240328-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	3/28/2024 19:34
10	20240328-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	3/28/2024 19:40
11	20240328-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	3/28/2024 19:46
12	20240328-012	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	3/28/2024 19:51
13	20240328-013	IB	Perchlorate6850c.lcm	1x		3/28/2024 19:57
14	20240328-014	LODV	Perchlorate6850c.lcm	1x		3/28/2024 20:08
15	20240328-015	EQ2400151-04ICS	Perchlorate6850c.lcm	1x		3/28/2024 20:13
16	20240328-016	CCV	Perchlorate6850c.lcm	1x		3/28/2024 20:19
17	20240328-017	IB	Perchlorate6850c.lcm	1x		3/28/2024 20:24
18	20240328-018	EQ2400151-01MB	Perchlorate6850c.lcm	1x		3/28/2024 20:30
19	20240328-019	EQ2400151-02LCS	Perchlorate6850c.lcm	1x		3/28/2024 20:35
20	20240328-020	EQ2400151-03DLCS	Perchlorate6850c.lcm	1x		3/28/2024 20:41
21	20240328-022	E2400265-001	Perchlorate6850c.lcm	1x		3/28/2024 20:52
22	20240328-023	E2400268-001	Perchlorate6850c.lcm	1x		3/28/2024 20:58
23	20240328-024	E2400268-002	Perchlorate6850c.lcm	1x		3/28/2024 21:03
24	20240328-025	E2400271-001	Perchlorate6850c.lcm	1x		3/28/2024 21:09
25	20240328-026	E2400271-002	Perchlorate6850c.lcm	1x		3/28/2024 21:14
26	20240328-027	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:20
27	20240328-028	CCV	Perchlorate6850c.lcm	1x		3/28/2024 21:25
28	20240328-029	IB	Perchlorate6850c.lcm	1x		3/28/2024 21:31
29	20240328-030	E2400296-002	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:36
30	20240328-031	E2400296-003	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:42
31	20240328-032	CCV	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:47
32	20240328-033	IB	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:53

Initial Calibration - Detailed Report

Calibration ID: EC2400005 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400005-01	Perchlorate ICAL 1	20240328-002	03/28/2024 18:56
02	EC2400005-02	Perchlorate ICAL 2	20240328-003	03/28/2024 19:01
03	EC2400005-03	Perchlorate ICAL 3	20240328-004	03/28/2024 19:07
04	EC2400005-04	Perchlorate ICAL 4	20240328-005	03/28/2024 19:12
05	EC2400005-05	Perchlorate ICAL 5	20240328-006	03/28/2024 19:18
06	EC2400005-06	Perchlorate ICAL 6	20240328-007	03/28/2024 19:23
07	EC2400005-07	Perchlorate ICAL 7	20240328-008	03/28/2024 19:29
08	EC2400005-08	Perchlorate ICAL 8	20240328-009	03/28/2024 19:34
09	EC2400005-09	Perchlorate ICAL 9	20240328-010	03/28/2024 19:40
10	EC2400005-10	Perchlorate ICAL 10	20240328-011	03/28/2024 19:46

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.135** **Average RF = 0.1549**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1349	02	0.5000	0.1452	03	0.7000	0.1473	04	1.0000	0.1539
05	2.0000	0.1596	06	5.0000	0.1596	07	10.0000	0.1635	08	20.0000	0.1613
09	30.0000	0.1629	10	50.0000	0.161						

Analyte

Perchlorate RSE = 6.14

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0871	-12.9	02	0.5000	0.469	-6.3	03	0.7000	0.666	-4.9
04	1.0000	0.994	-0.6	05	2.0000	2.06	3.0	06	5.0000	5.15	3.0
07	10.0000	10.6	5.6	08	20.0000	20.8	4.1	09	30.0000	31.5	5.1
10	50.0000	52.0	3.9								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400005	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240328-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400005-11	T	Average RF	10	10.397	ng/mL	4.0	<= 15

Insight Report

Printed at 3/29/2024 12:40:08 PM

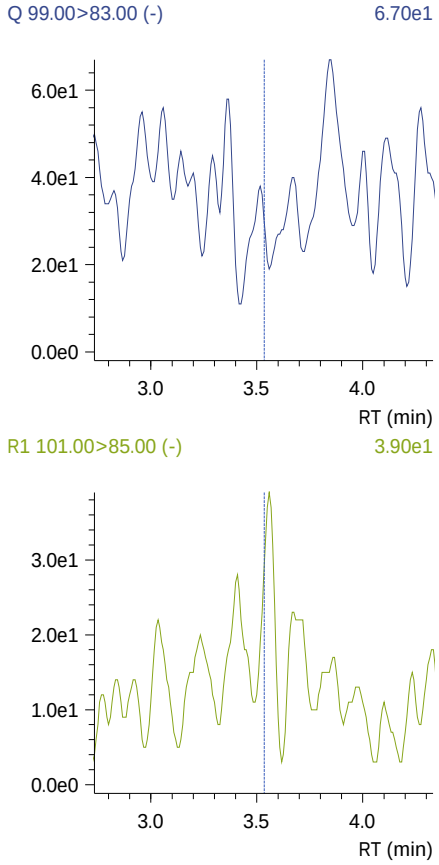
IB

Sample ID: IB
Date Acquired: 3/28/2024 7:57:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	174347	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.516	174347	174347	1.0000	ng/mL	----	----	

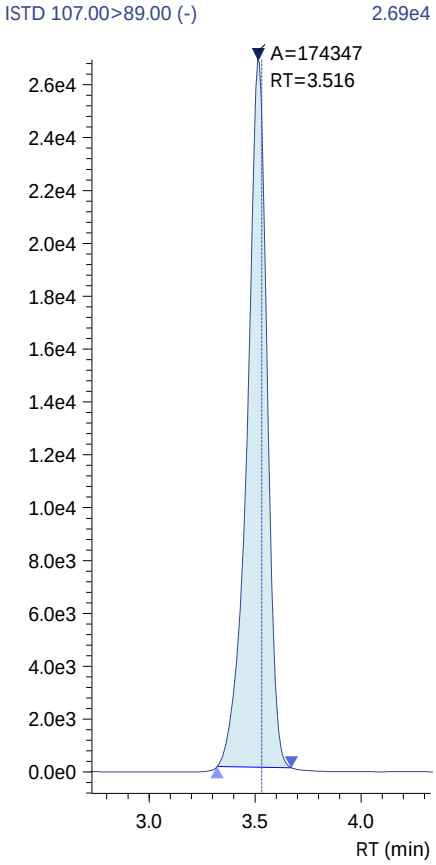
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240328\20240328.damlp

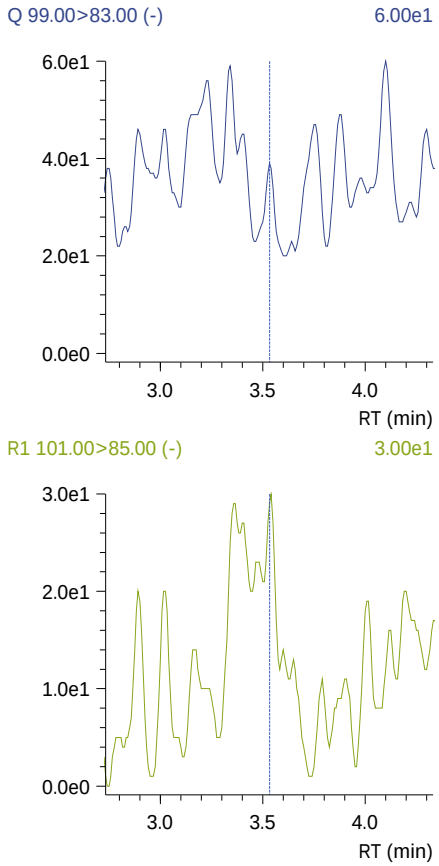
IB

Sample ID: IB
Date Acquired: 3/28/2024 6:50:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	242889	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.523	242889	242889	1.0000	ng/mL	----	----	

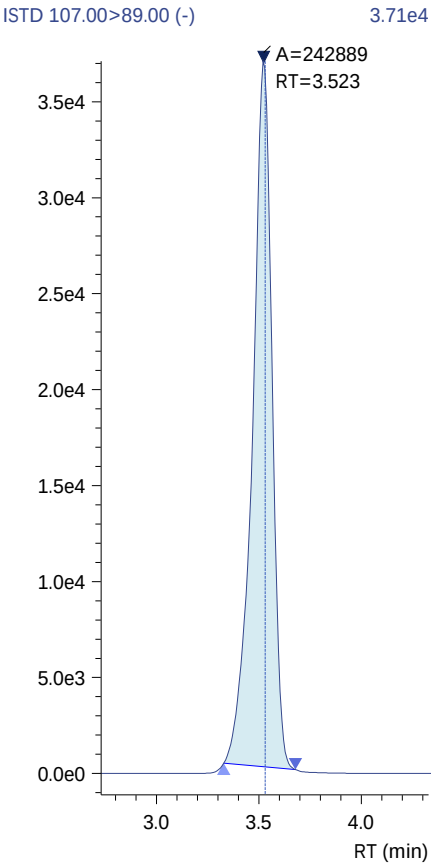
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

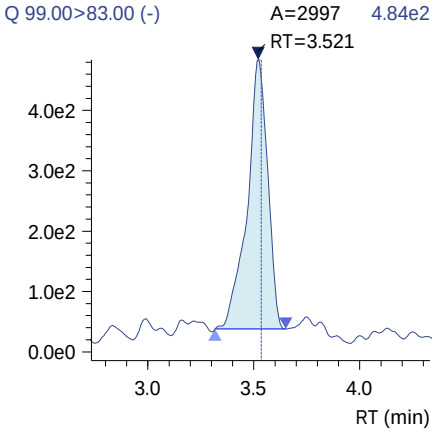
Perchlorate ICAL 1

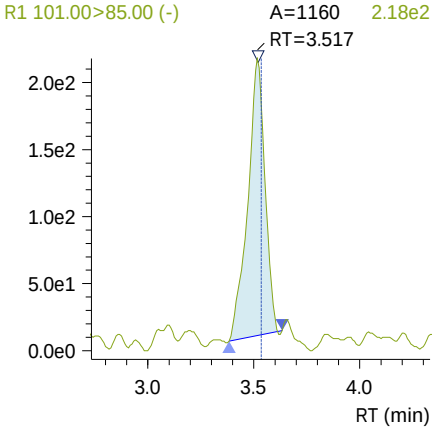
Sample ID: Perchlorate ICAL 1
Date Acquired: 3/28/2024 6:56:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	2997	222150	0.0871	ng/mL	101.00 >85.00	38.69	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.521	222150	222150	1.0000	ng/mL	----	----	

Perchlorate

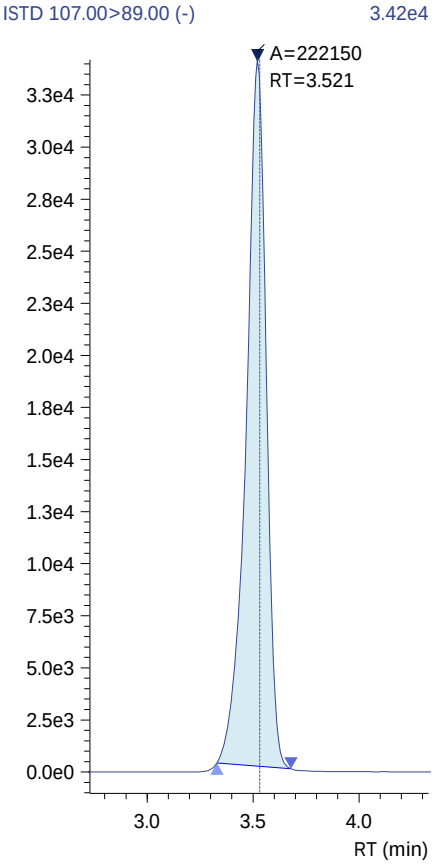
Conc 0.0871
R#1 38.69 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

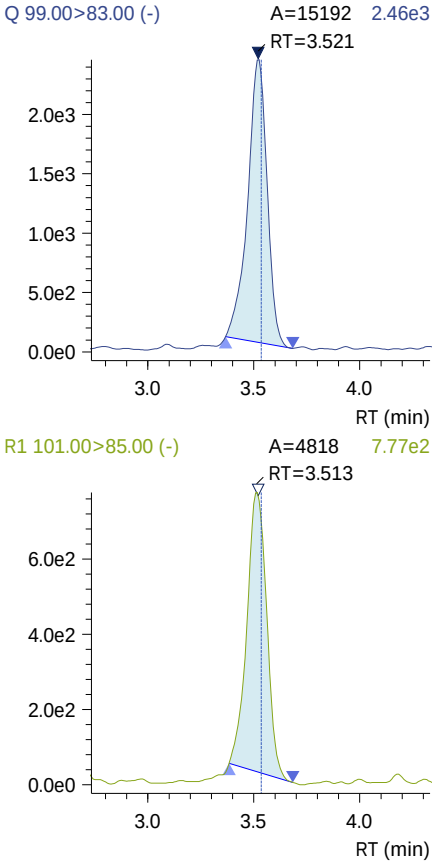
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 3/28/2024 7:01:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	15192	209260	0.4686	ng/mL	101.00 >85.00	31.71	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.519	209260	209260	1.0000	ng/mL	----	----	

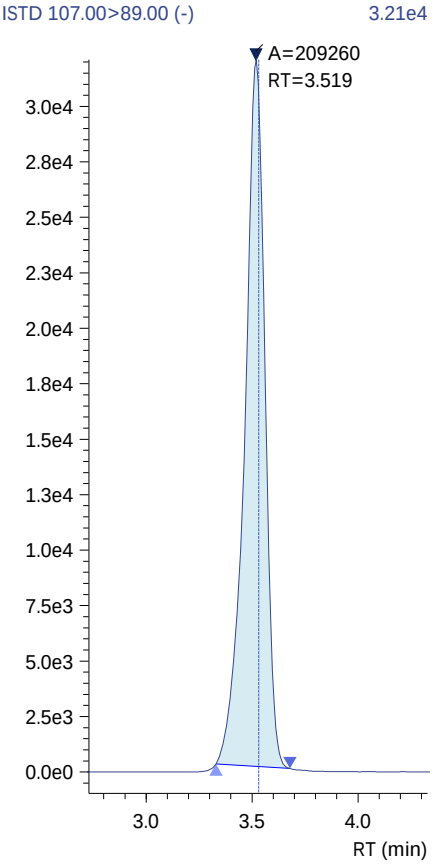
Perchlorate

Conc 0.4686
R#1 31.71 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

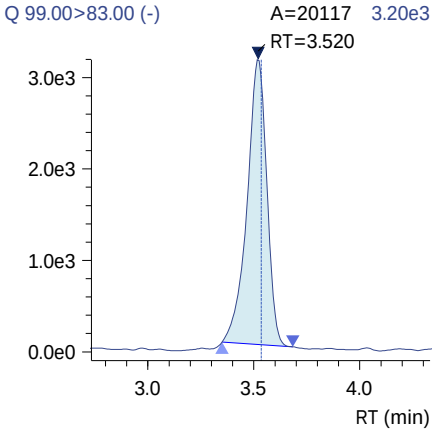
Perchlorate ICAL 3

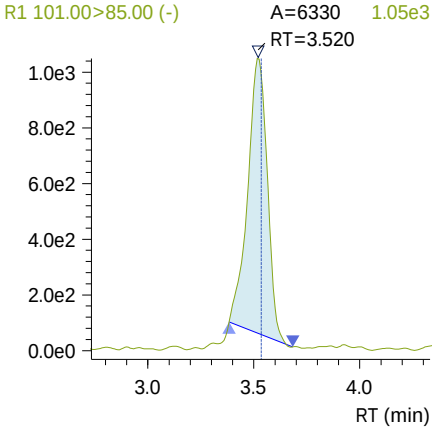
Sample ID: Perchlorate ICAL 3
Date Acquired: 3/28/2024 7:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	20117	195056	0.6657	ng/mL	101.00 >85.00	31.46	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	195056	195056	1.0000	ng/mL	----	----	

Perchlorate

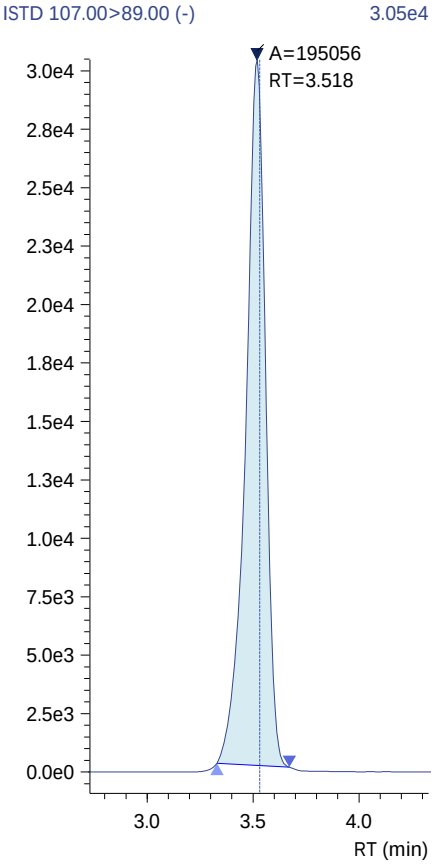
Conc 0.6657
R#1 31.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

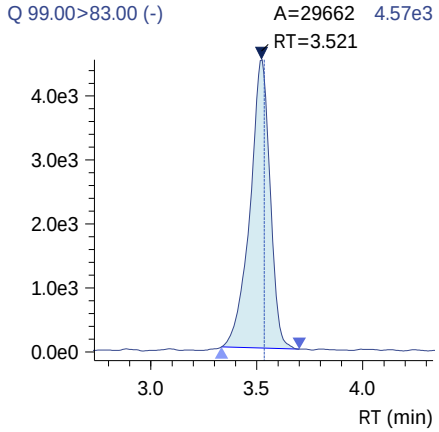
Perchlorate ICAL 4

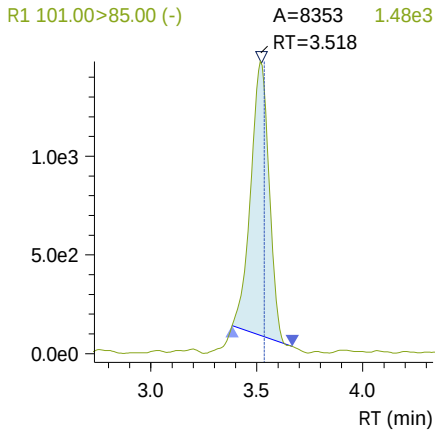
Sample ID: Perchlorate ICAL 4
Date Acquired: 3/28/2024 7:12:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	29662	192682	0.9936	ng/mL	101.00 >85.00	28.16	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	192682	192682	1.0000	ng/mL	----	----	

Perchlorate

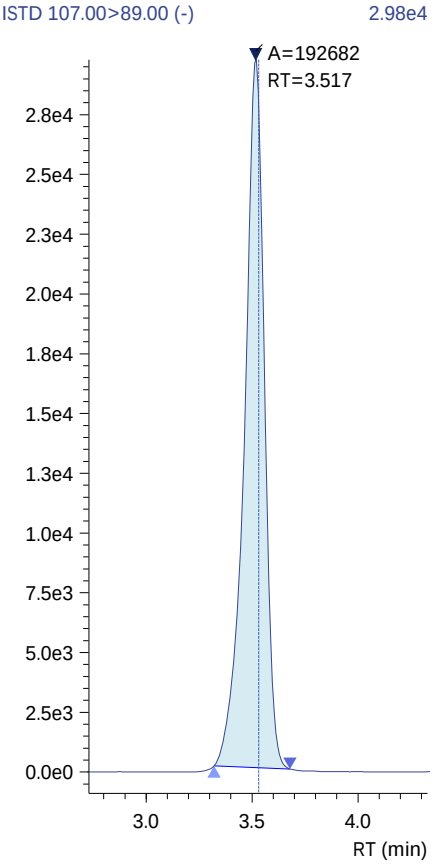
Conc 0.9936
R#1 28.16 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

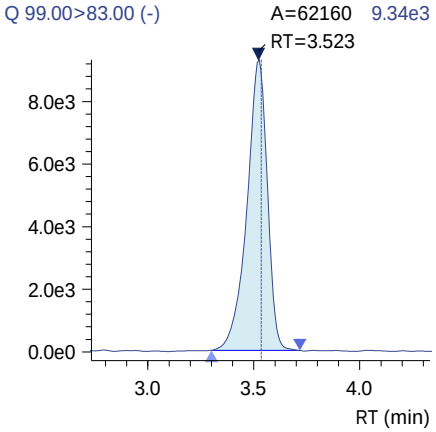
Perchlorate ICAL 5

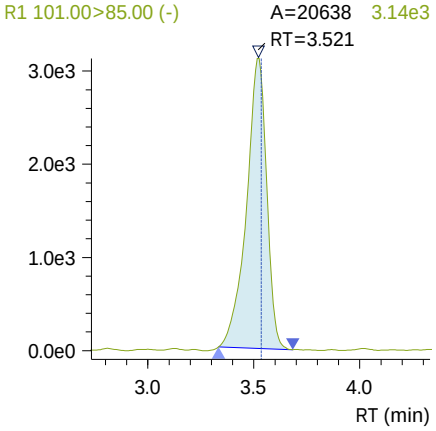
Sample ID: Perchlorate ICAL 5
Date Acquired: 3/28/2024 7:18:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	62160	194691	2.0607	ng/mL	101.00 >85.00	33.20	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	194691	194691	1.0000	ng/mL	----	----	

Perchlorate

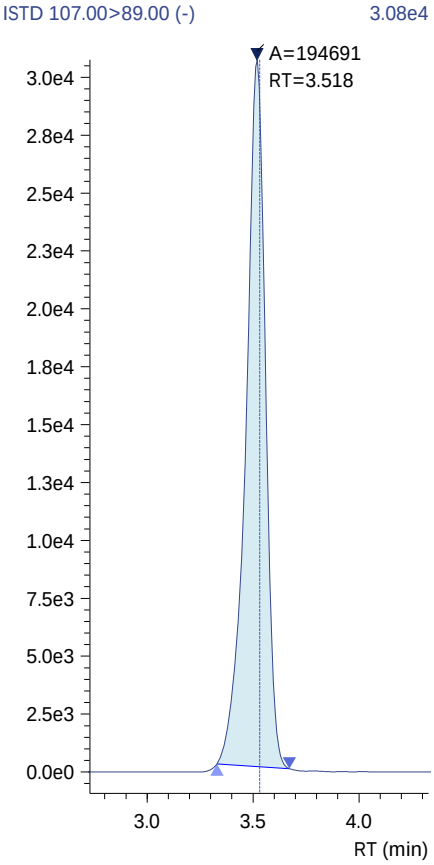
Conc 2.0607
R#1 33.20 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 6

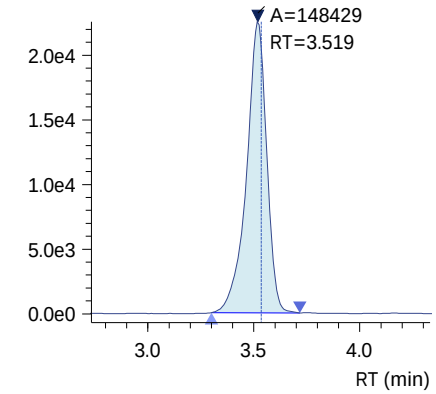
Sample ID: Perchlorate ICAL 6
Date Acquired: 3/28/2024 7:23:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	148429	185979	5.1511	ng/mL	101.00 >85.00	33.89	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	185979	185979	1.0000	ng/mL	----	----	

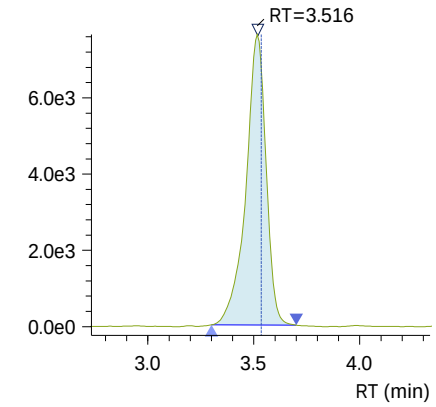
Perchlorate

Conc 5.1511
R#1 33.89 (34.10)

Q 99.00>83.00 (-) 2.26e4



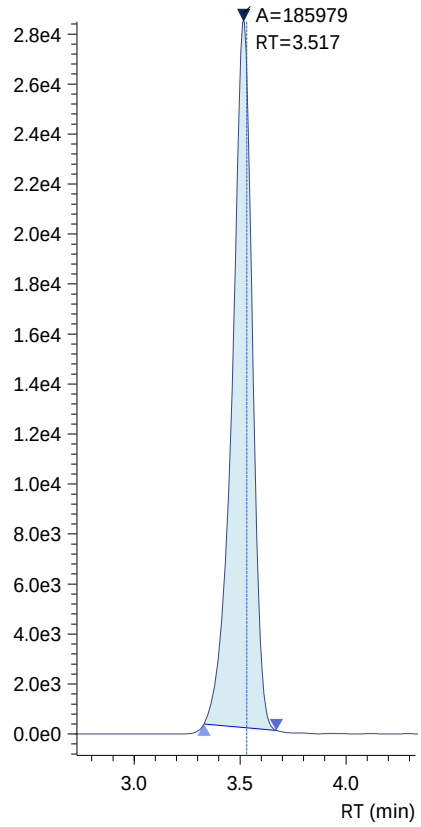
R1 101.00>85.00 (-) A=50306 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.85e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

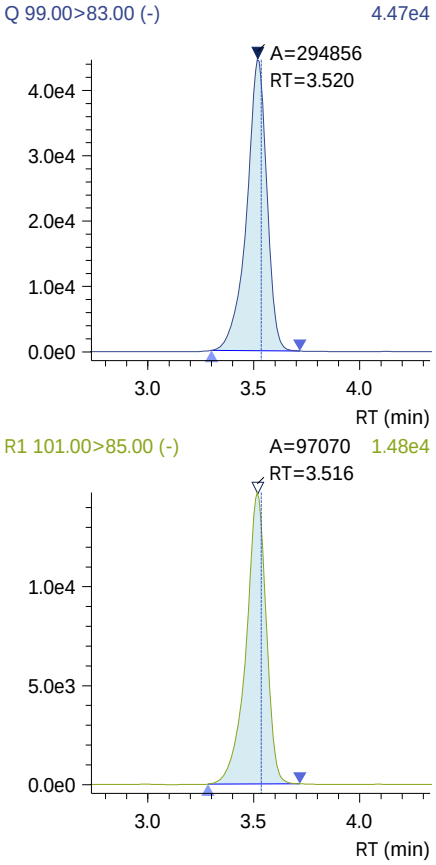
Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 3/28/2024 7:29:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	294856	180287	10.5 558	ng/mL	101.00 >85.00	32.92	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	180287	180287	1.0000	ng/mL	----	----	

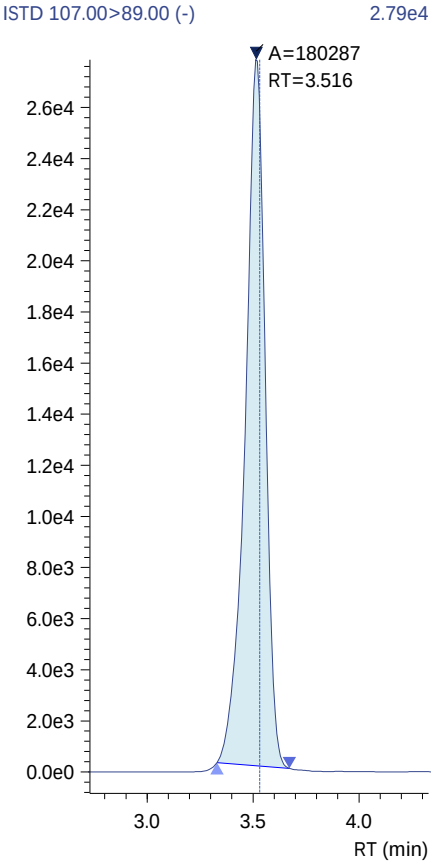
Perchlorate

Conc 10.5558
R#1 32.92 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 8

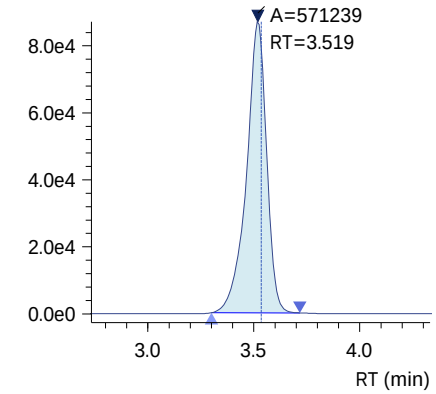
Sample ID: Perchlorate ICAL 8
Date Acquired: 3/28/2024 7:34:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	571239	177068	20.8	ng/mL	101.00	33.33	22.32
					220		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	177068	177068	1.0000	ng/mL	----	----	

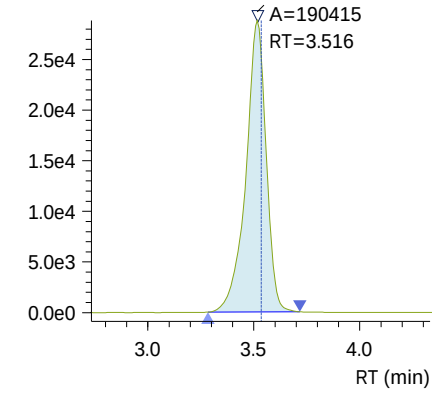
Perchlorate

Conc 20.8220
R#1 33.33 (34.10)

Q 99.00>83.00 (-) 8.72e4



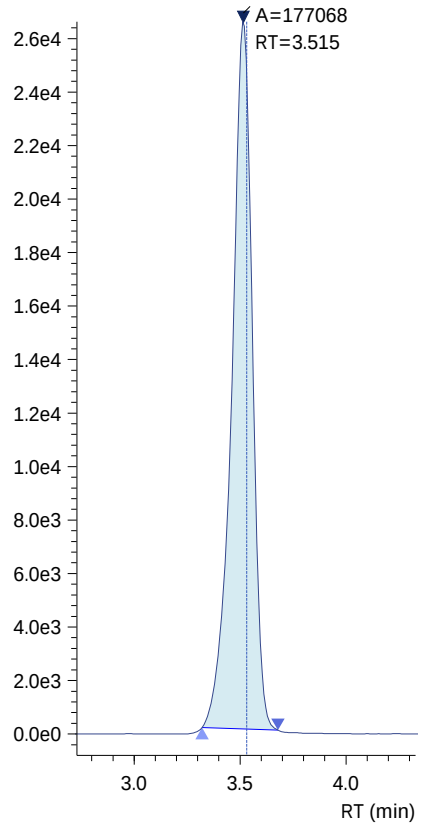
R1 101.00>85.00 (-) 2.89e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 9

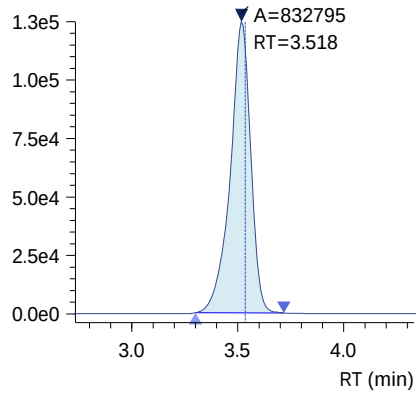
Sample ID: Perchlorate ICAL 9
Date Acquired: 3/28/2024 7:40:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.518	832795	170448	31.5	ng/mL	101.00	33.17	22.32
					348		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	170448	170448	1.0000	ng/mL	----	----	

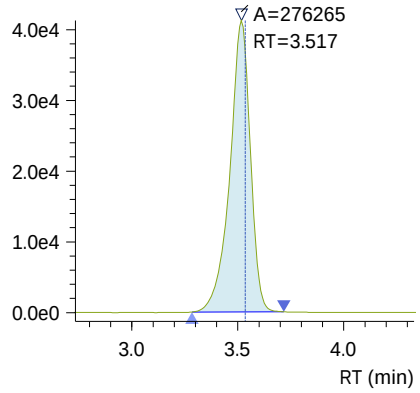
Perchlorate

Conc 31.5348
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 1.25e5



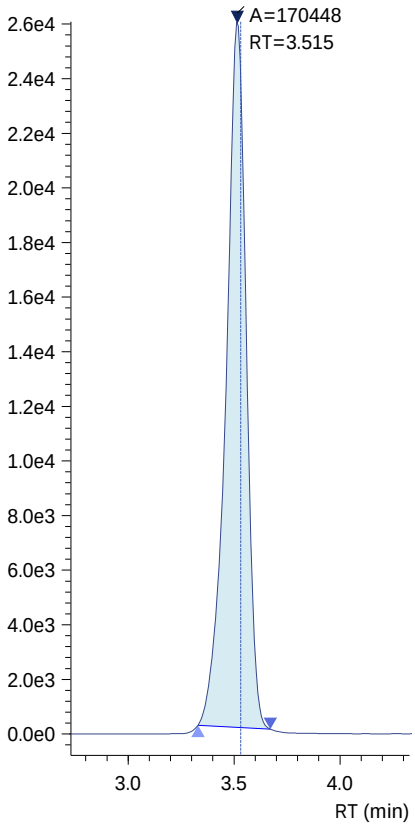
R1 101.00>85.00 (-) 4.13e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.61e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 10

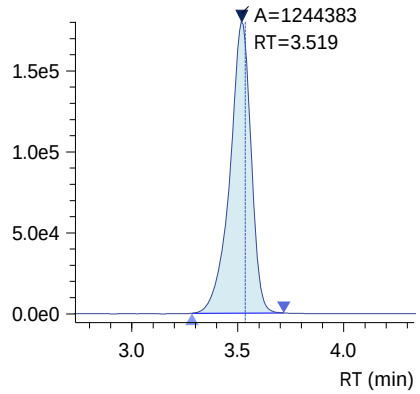
Sample ID: Perchlorate ICAL 10
Date Acquired: 3/28/2024 7:46:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	12443	154566	51.9	ng/mL	101.00	33.24	22.32
			83		618		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	154566	154566	1.0000	ng/mL	----	----	

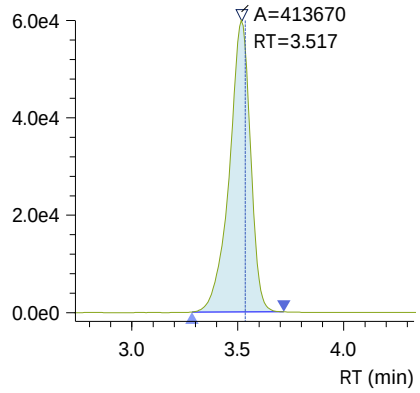
Perchlorate

Conc 51.9618
R#1 33.24 (34.10)

Q 99.00>83.00 (-) 1.80e5



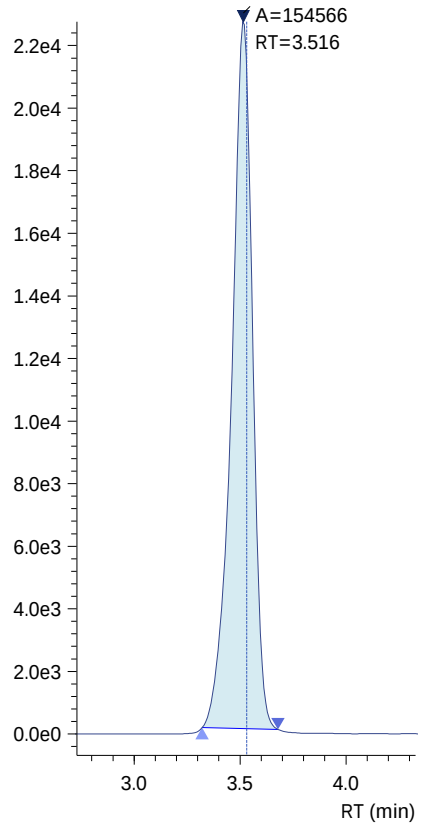
R1 101.00>85.00 (-) 6.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.28e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

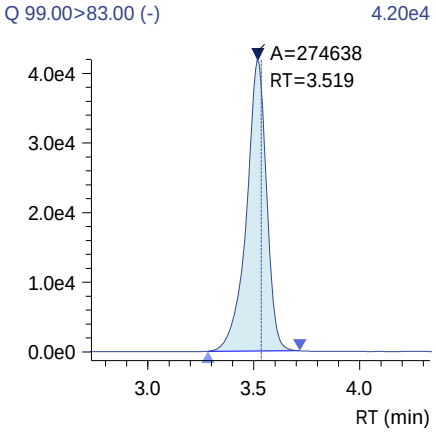
PerchlorateICV

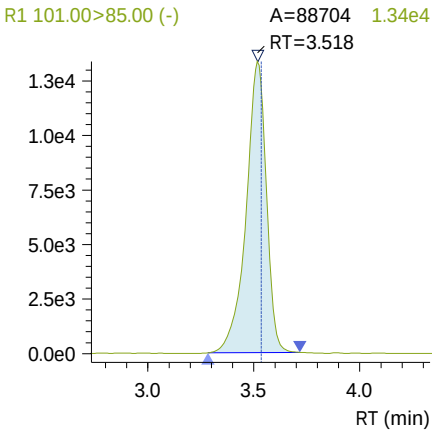
Sample ID: PerchlorateICV
Date Acquired: 3/28/2024 7:51:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	274638	170488	10.3971	ng/mL	101.00 >85.00	32.30	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.515	170488	170488	1.0000	ng/mL	----	----	

Perchlorate

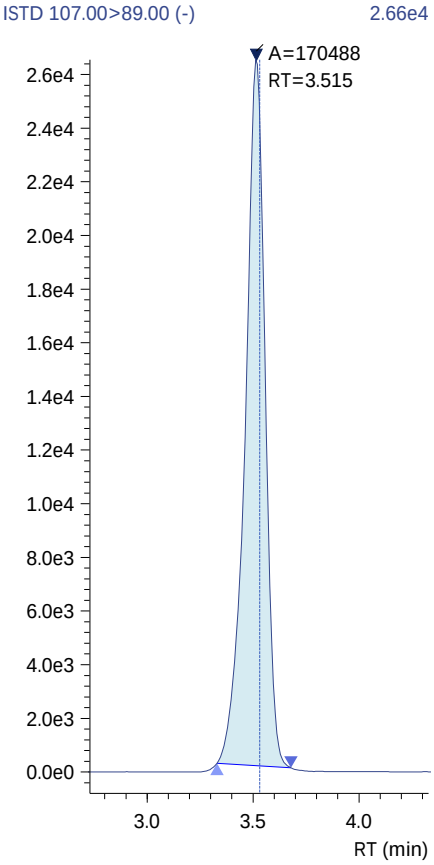
Conc 10.3971
R#1 32.30 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

837147

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240408-001	IB	Perchlorate6850c.lcm	1x		4/8/2024 9:49
2	20240408-002	IB	Perchlorate6850c.lcm	1x		4/8/2024 9:54
3	20240408-003	CCV	Perchlorate6850c.lcm	1x		4/8/2024 10:00
4	20240408-004	IB	Perchlorate6850c.lcm	1x		4/8/2024 10:05
5	20240408-005	LODV	Perchlorate6850c.lcm	1x		4/8/2024 10:19
6	20240408-006	EQ2400169-04ICS	Perchlorate6850c.lcm	1x		4/8/2024 10:25
7	20240408-007	IB	Perchlorate6850c.lcm	1x		4/8/2024 10:40
8	20240408-008	EQ2400169-01MB	Perchlorate6850c.lcm	1x		4/8/2024 10:45
9	20240408-009	EQ2400169-02LCS	Perchlorate6850c.lcm	1x		4/8/2024 10:51
10	20240408-010	EQ2400169-03SLCS	Perchlorate6850c.lcm	1x		4/8/2024 10:56
11	20240408-011	EQ2400169-04ICS	Perchlorate6850c.lcm	1x	DNU	4/8/2024 11:02
12	20240408-012	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	4/8/2024 11:07
13	20240408-013	E2400296-002	Perchlorate6850c.lcm	1x		4/8/2024 11:13
14	20240408-014	E2400296-003	Perchlorate6850c.lcm	1x		4/8/2024 11:18
15	20240408-015	E2400319-001	Perchlorate6850c.lcm	1x		4/8/2024 11:24
16	20240408-016	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	4/8/2024 11:34
17	20240408-017	E2400296-001x10	Perchlorate6850c.lcm	1x	DNU ISs	4/8/2024 12:02
18	20240408-018	CCV	Perchlorate6850c.lcm	1x		4/8/2024 12:07
19	20240408-019	IB	Perchlorate6850c.lcm	1x		4/8/2024 12:13
20	20240408-020	E2400329-001	Perchlorate6850c.lcm	1x	DNU Screen	4/8/2024 12:19
21	20240408-021	E2400329-002	Perchlorate6850c.lcm	1x	DNU Screen	4/8/2024 12:24
22	20240408-022	E2400329-003	Perchlorate6850c.lcm	1x	DNU Screen	4/8/2024 12:31
23	20240408-023	E2400325-001	Perchlorate6850c.lcm	1x	DNU Screen	4/8/2024 12:36
24	20240408-024	E2400329-001	Perchlorate6850c.lcm	1x		4/8/2024 12:47
25	20240408-025	E2400329-002	Perchlorate6850c.lcm	1x		4/8/2024 12:53
26	20240408-026	E2400329-003	Perchlorate6850c.lcm	1x		4/8/2024 12:58
27	20240408-027	E2400325-001	Perchlorate6850c.lcm	1x	DNU ISs	4/8/2024 13:04
28	20240408-028	E2400296-001x10	Perchlorate6850c.lcm	10x		4/8/2024 13:09
29	20240408-029	E2400325-001 x10	Perchlorate6850c.lcm	10x		4/8/2024 13:42
30	20240408-030	CCV	Perchlorate6850c.lcm	1x		4/8/2024 13:49
31	20240408-032	E2400332-002	Perchlorate6850c.lcm	1x		4/8/2024 14:00
32	20240408-033	CCV	Perchlorate6850c.lcm	1x		4/8/2024 14:06
33	20240408-034	IB	Perchlorate6850c.lcm	1x		4/8/2024 14:12

837147

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400329
Project:	HS24040221	**Date Analyzed:**	4/8/24 10:00

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240408\20240408-003	**Lab Code:**	EQ2400171-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	837147
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400171-01	156,981	3.52
Method Blank	EQ2400169-01	157,794	3.51
Lab Control Sample	EQ2400169-02	163,756	3.51
Duplicate Lab Control Sample	EQ2400169-03	172,409	3.51

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:**	E2400329
Project:	HS24040221	**Date Analyzed:**	4/8/24 12:07

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240408\20240408-018	**Lab Code:**	EQ2400171-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	837147
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400171-02	142,985	3.51
LH18/24-SP650_040224_BIX	E2400329-001	163,741	3.51
LH18/24-SP650_040224_AIX	E2400329-002	153,963	3.51
LH18/24-SP650_040224_Between	E2400329-003	148,521	3.51

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:**	E2400329
Project:	HS24040221	**Date Analyzed:**	4/8/24 13:49

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240408\20240408-030	**Lab Code:**	EQ2400171-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	837147
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400171-03	140,041	3.51

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:**	E2400329
Project:	HS24040221	**Date Analyzed:**	4/8/24 14:06

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240408\20240408-033	**Lab Code:**	EQ2400171-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	837147
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400171-04	134,310	3.51

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: HS24040221

Service Request: E2400329
Date Analyzed: 4/ 8/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240408\20240408-003

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 837147
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	8.84	0.1549	0.1369	-11.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040221

Service Request: E2400329
Date Analyzed: 4/ 8/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240408\20240408-018

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 837147
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1563	0.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040221

Service Request: E2400329
Date Analyzed: 4/ 8/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240408\20240408-030

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 837147
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1549	0.1573	1.6	NA	± 15 %	Average RF

Insight Report

Printed at 4/8/2024 3:12:22 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240408\20240328ICAL.damIp

IB

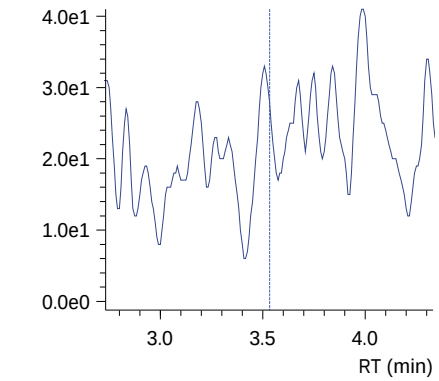
Sample ID: IB
Date Acquired: 4/8/2024 9:54:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	163403	----	ng/mL	101.00 >85.00	0.00	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.523	163403	163403	1.0000	ng/mL	----	----	

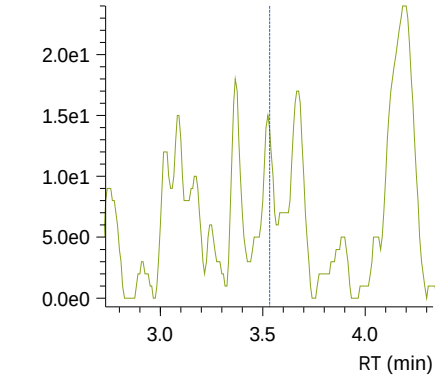
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 4.10e1



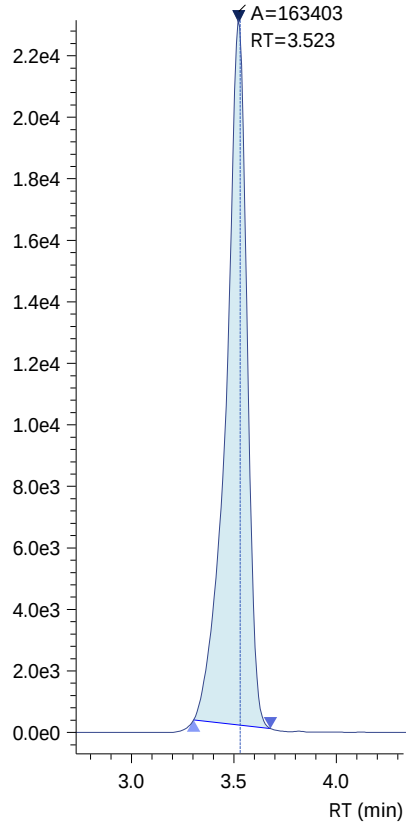
R1 101.00>85.00 (-) 2.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.32e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

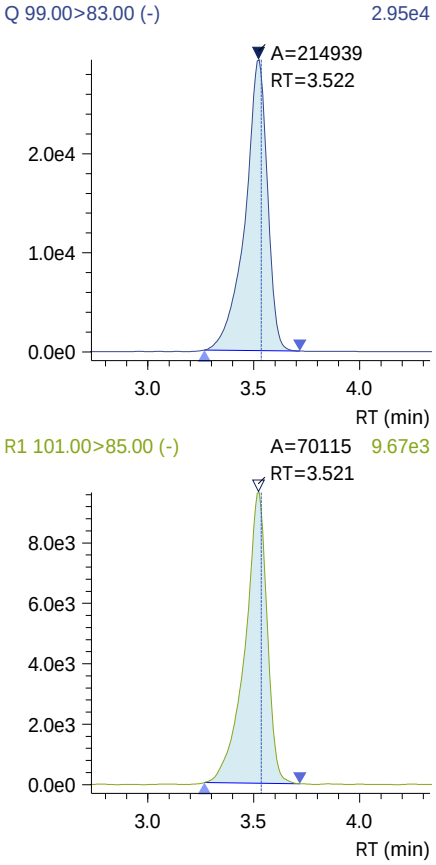
CCV

Sample ID: CCV
Date Acquired: 4/8/2024 10:00:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	214939	156981	8.8371	ng/mL	101.00 >85.00	32.62	22.32 -42.70
Sodium Perchlorate-18O4_IS	M	3.518	156981	156981	1.0000	ng/mL	----	----	

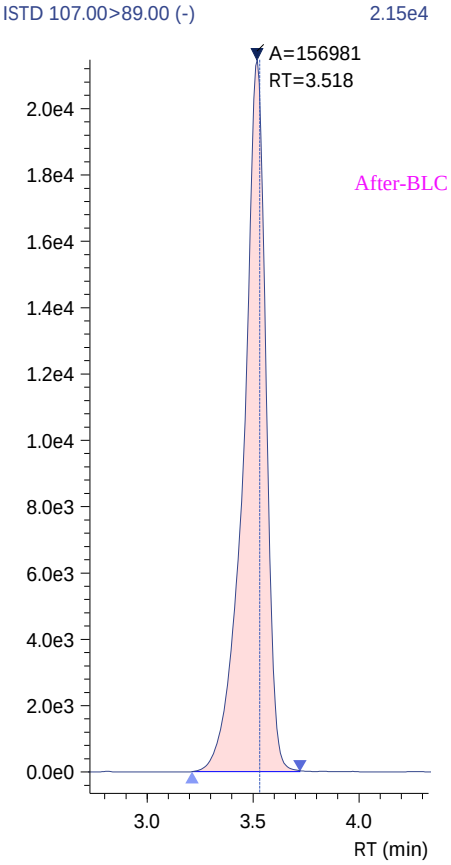
Perchlorate

Conc 8.8371
R#1 32.62 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240408\20240328ICAL.damIp

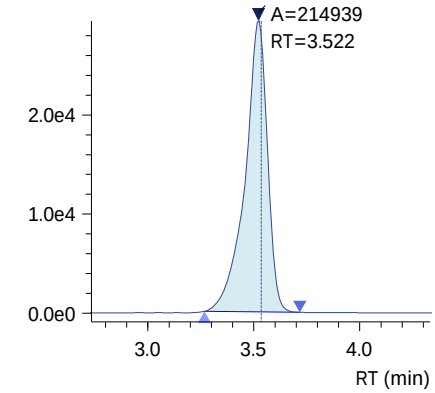
CCV

Sample ID: CCV
Date Acquired: 4/8/2024 10:00:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

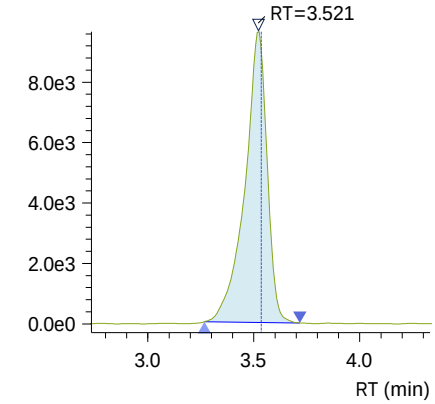
Perchlorate

Conc 9.2231
R#1 32.62 (34.10)

Q 99.00>83.00 (-) 2.95e4



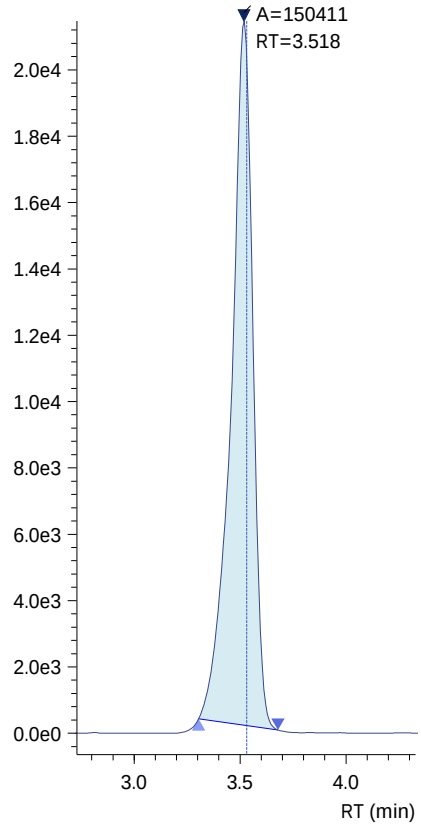
R1 101.00>85.00 (-) A=70115 9.67e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.15e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

IB

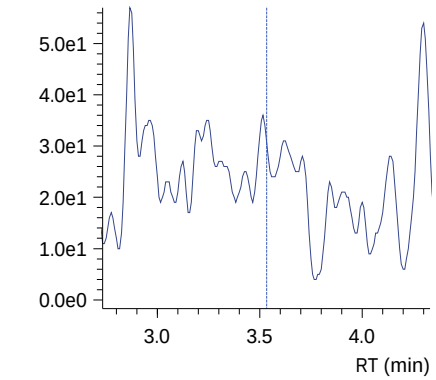
Sample ID: IB
Date Acquired: 4/8/2024 10:05:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-004.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	161991	----	ng/mL	101.00 >85.00	0.00	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.516	161991	161991	1.0000	ng/mL	----	----	

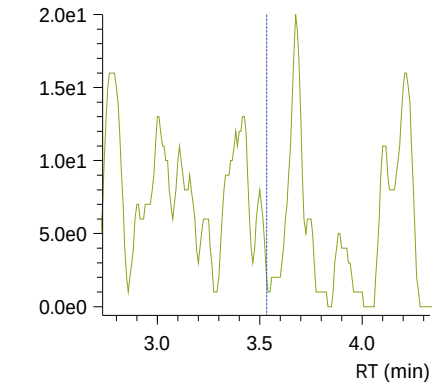
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 5.70e1



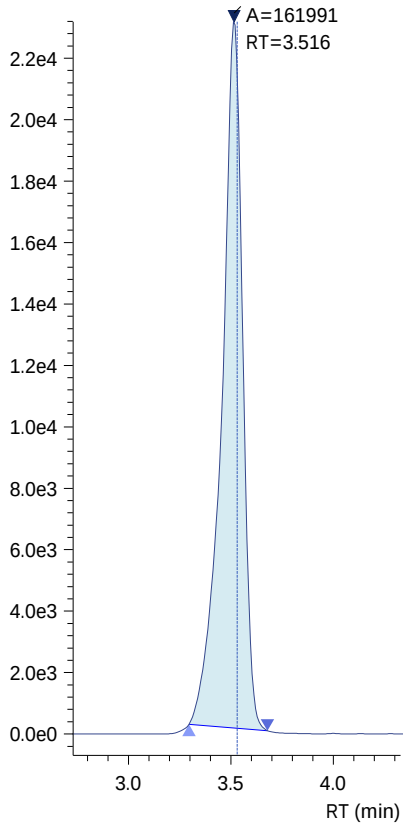
R1 101.00>85.00 (-) 2.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.32e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

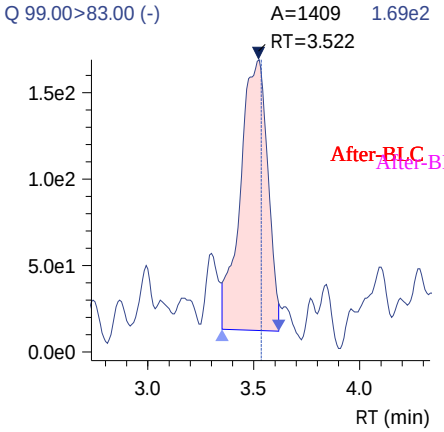
LODV

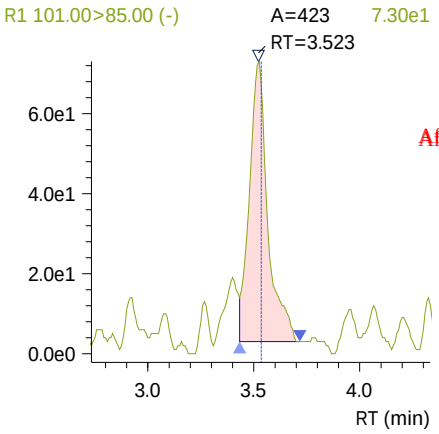
Sample ID: LODV
Date Acquired: 4/8/2024 10:19:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-005.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.522	1409	167024	0.0544	ng/mL	101.00 >85.00	30.05	22.32 -42.70
Sodium Perchlorate-18O4 _IS	Auto	3.515	1670 24	167024	1.0000	ng/mL	----	----	

Perchlorate

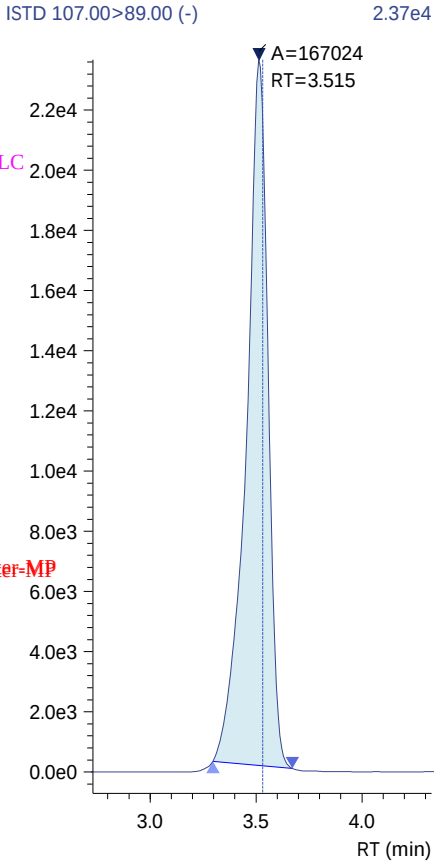
Conc 0.0544
R#1 30.05 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:15:22 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240408\20240328ICAL.damIp

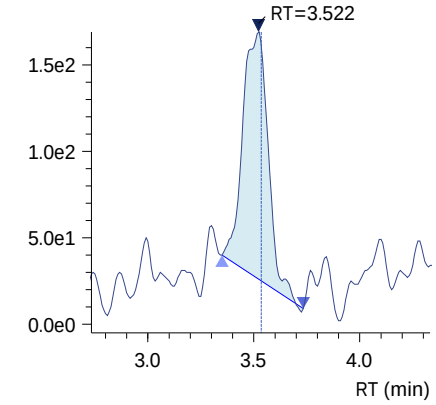
LODV

Sample ID: LODV
Date Acquired: 4/8/2024 10:19:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-005.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

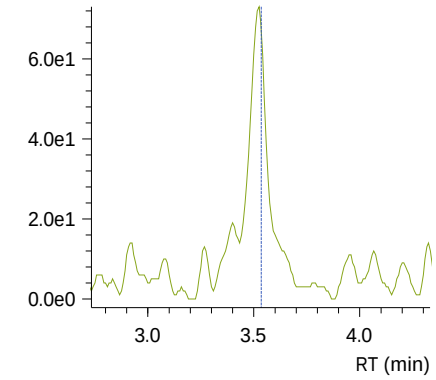
Perchlorate

Conc 0.0453
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1173 1.69e2



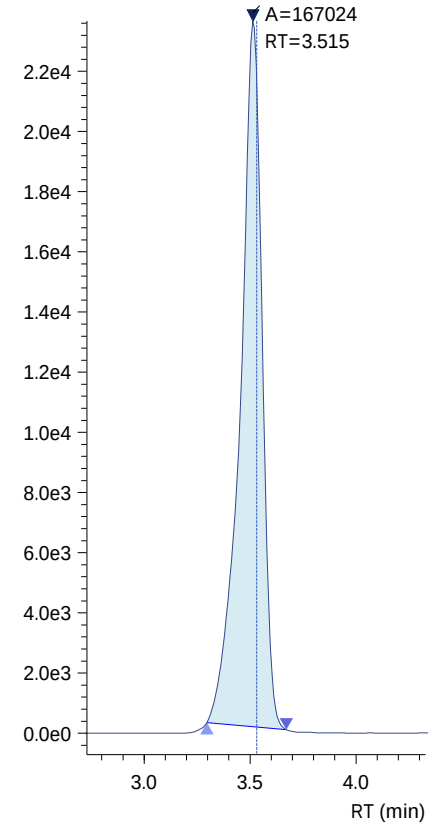
R1 101.00>85.00 (-) 7.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.37e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

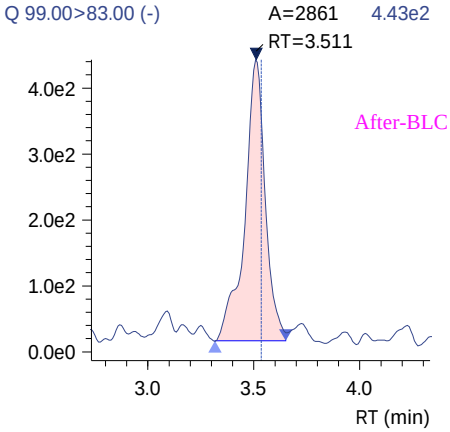
EQ2400169-04ICS

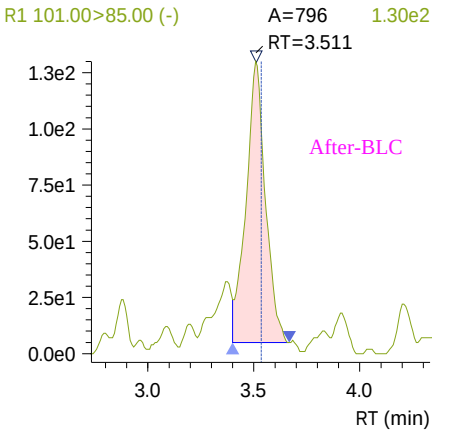
Sample ID: EQ2400169-04
Date Acquired: 4/8/2024 10:25:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-006.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.511	2861	174125	0.1060	ng/mL	101.00 >85.00	27.82	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.512	1741 25	174125	1.0000	ng/mL	----	----	

Perchlorate

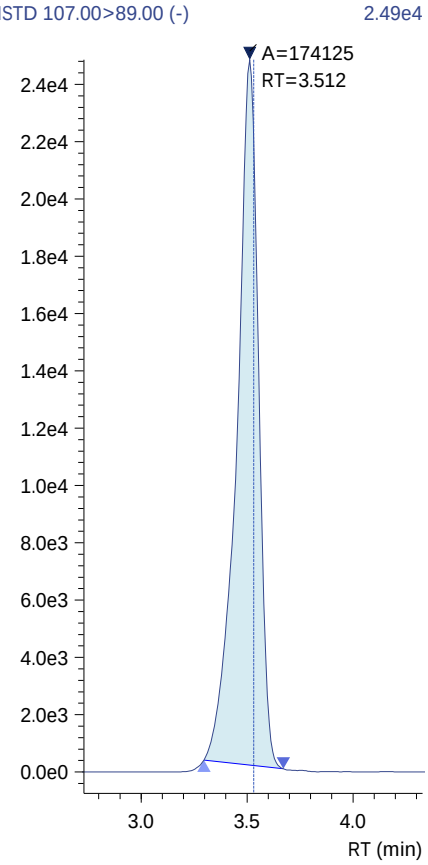
Conc 0.1060
R#1 27.82 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:15:22 PM

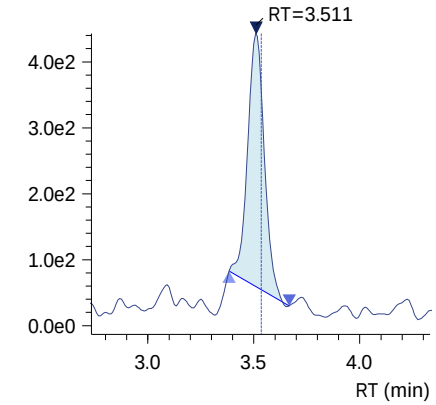
EQ2400169-04ICS

Sample ID: EQ2400169-04
Date Acquired: 4/8/2024 10:25:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-006.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

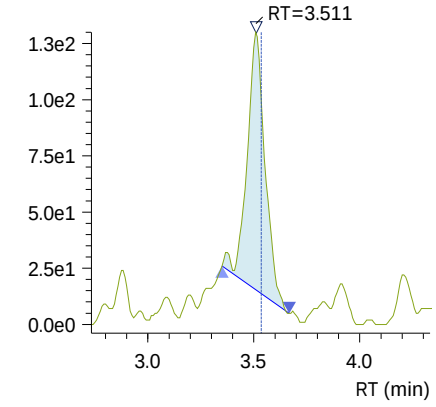
Perchlorate

Conc 0.0778
R#1 31.90 (34.10)

Q 99.00>83.00 (-) A=2098 4.43e2



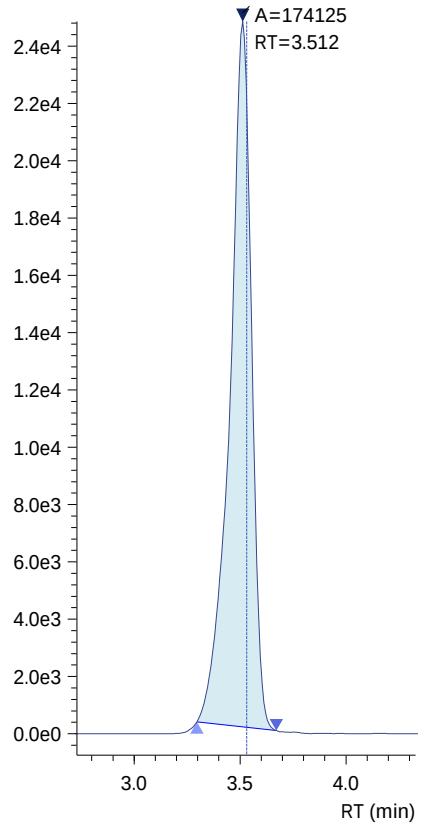
R1 101.00>85.00 (-) A=669 1.30e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.49e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

IB

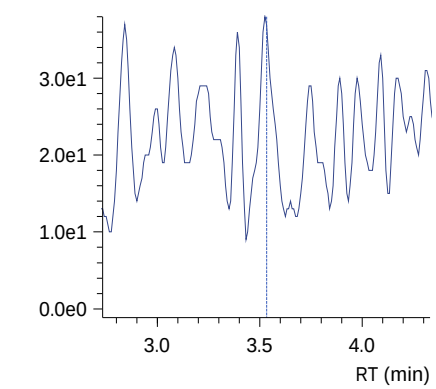
Sample ID: IB
Date Acquired: 4/8/2024 10:40:02 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	168199	----	ng/mL	101.00 >85.00	0.00	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.513	168199	168199	1.0000	ng/mL	----	----	

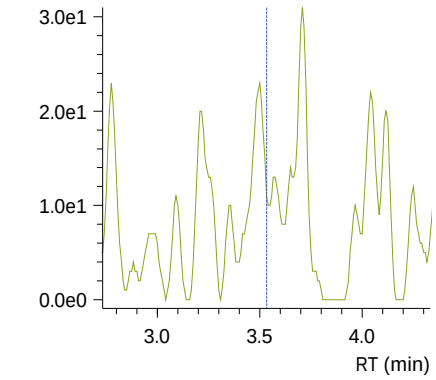
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.80e1



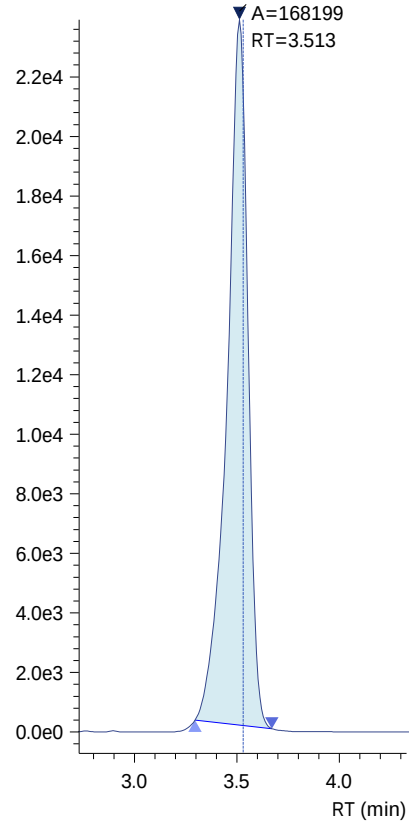
R1 101.00>85.00 (-) 3.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.39e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

EQ2400169-01MB

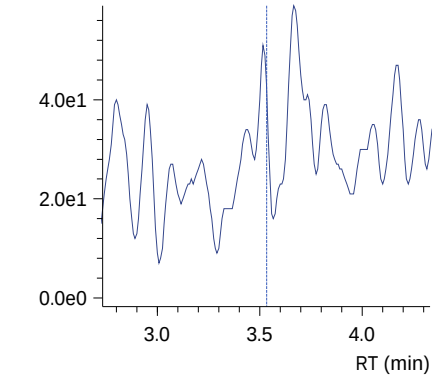
Sample ID: EQ2400169-01
Date Acquired: 4/8/2024 10:45:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	157794	----	ng/mL	101.00 >85.00	0.00	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.510	157794	157794	1.0000	ng/mL	----	----	

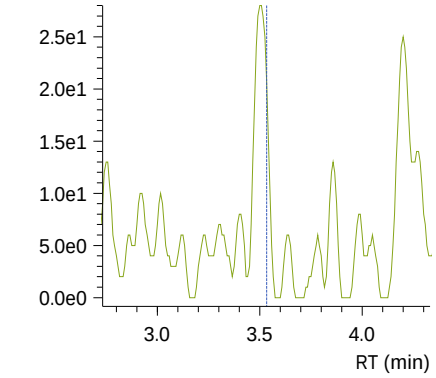
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 5.90e1



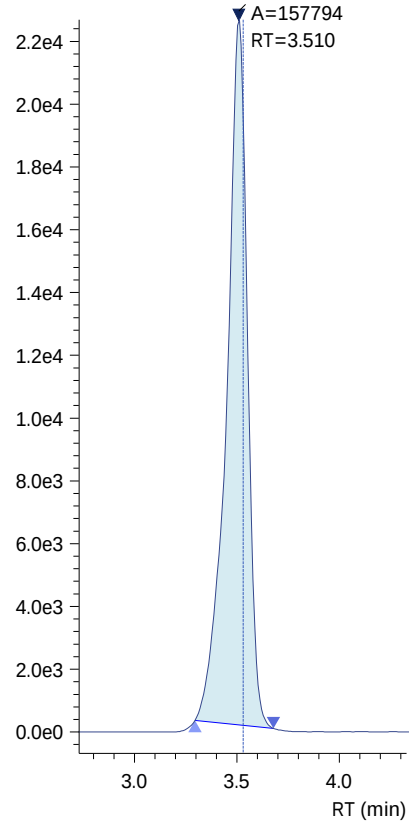
R1 101.00>85.00 (-) 2.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.27e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

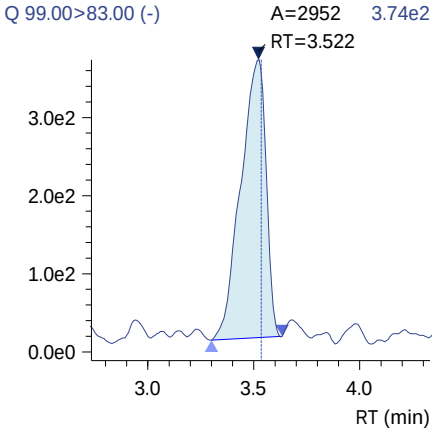
EQ2400169-02LCS

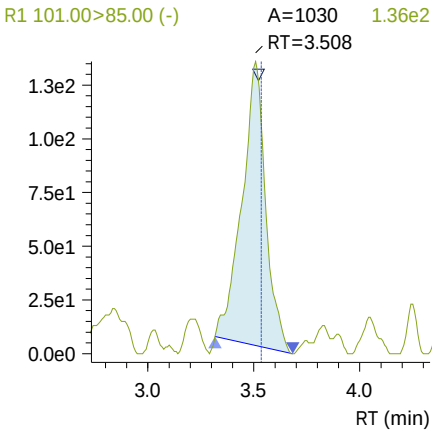
Sample ID: EQ2400169-02
Date Acquired: 4/8/2024 10:51:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	2952	163756	0.1163	ng/mL	101.00 >85.00	34.88	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.511	163756	163756	1.0000	ng/mL	----	----	

Perchlorate

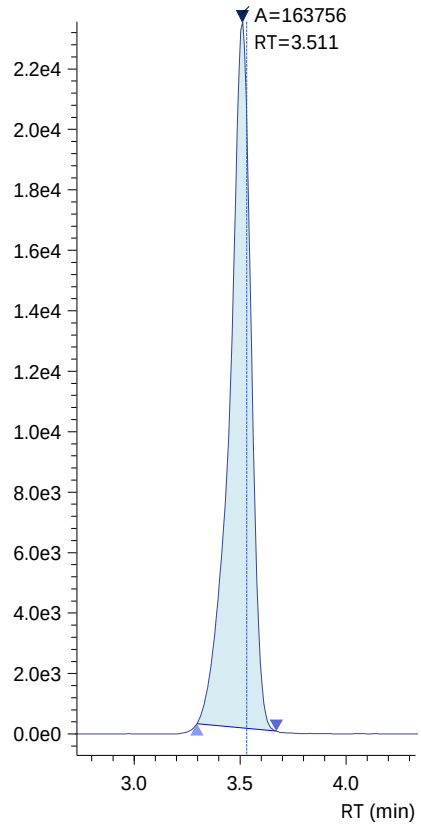
Conc 0.1163
R#1 34.88 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:12:22 PM

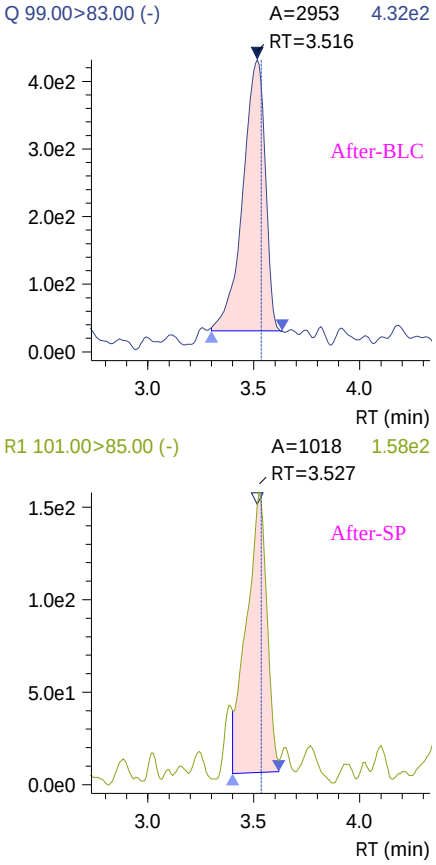
EQ2400169-03SLCS

Sample ID: EQ2400169-03
Date Acquired: 4/8/2024 10:56:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.516	2953	172409	0.1105	ng/mL	101.00 >85.00	34.47	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.510	172409	172409	1.0000	ng/mL	----	----	

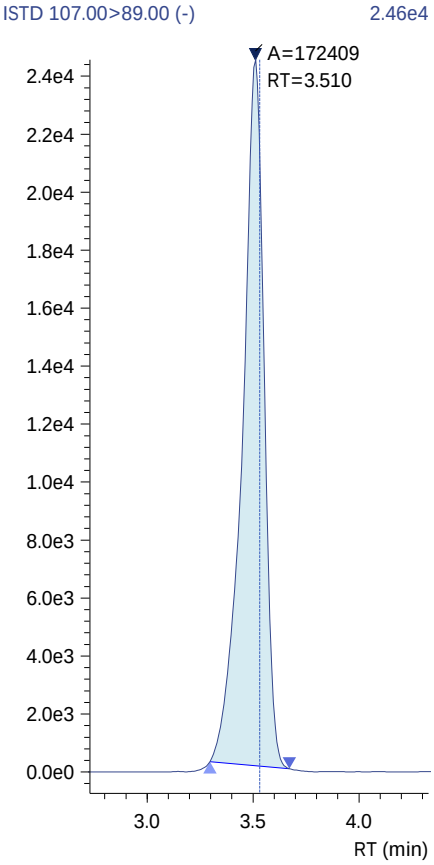
Perchlorate

Conc 0.1105
R#1 34.47 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:15:22 PM

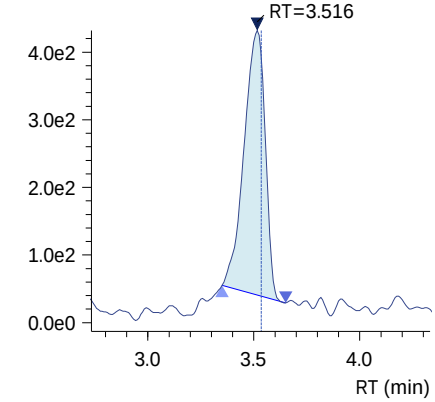
EQ2400169-03SLCS

Sample ID: EQ2400169-03
Date Acquired: 4/8/2024 10:56:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

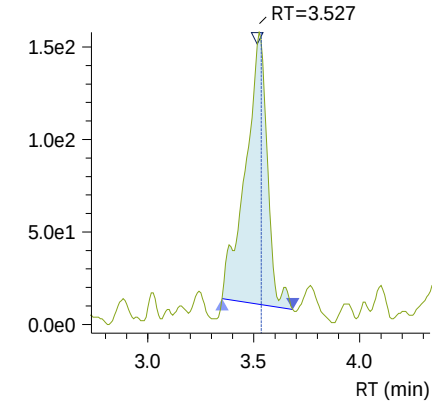
Perchlorate

Conc 0.1015
R#1 38.66 (34.10)

Q 99.00>83.00 (-) A=2711 4.32e2



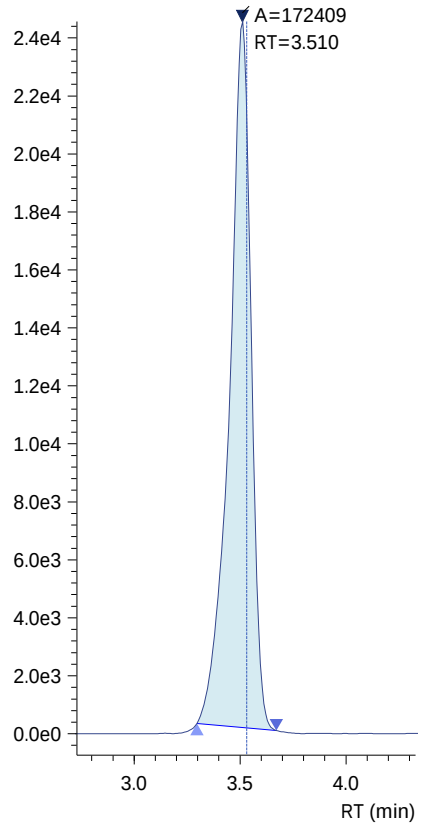
R1 101.00>85.00 (-) A=1048 1.58e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.46e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

CCV

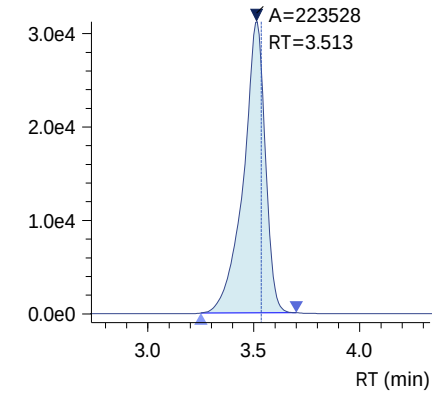
Sample ID: CCV
Date Acquired: 4/8/2024 12:07:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-018.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.513	2235 28	142985	10.0 898	ng/mL	101.00 >85.00	32.60	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.508	1429 85	142985	1.0000	ng/mL	----	----	

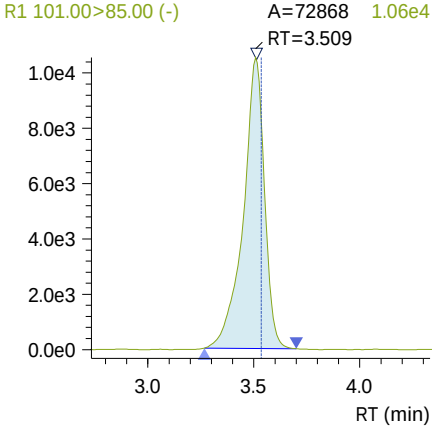
Perchlorate

Conc 10.0898
R#1 32.60 (34.10)

Q 99.00>83.00 (-) 3.13e4



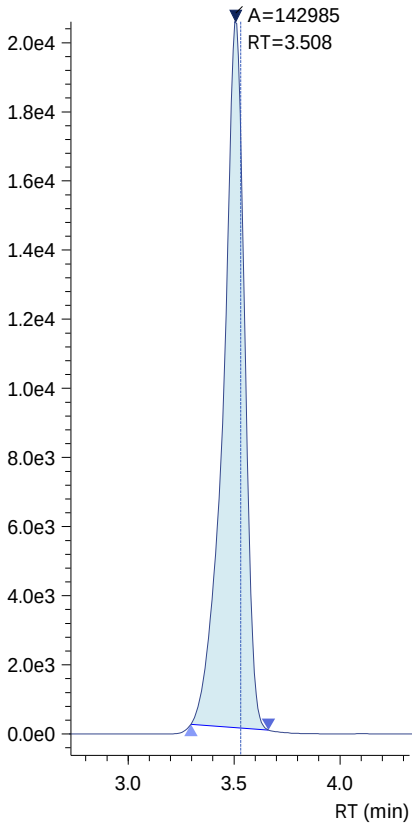
R1 101.00>85.00 (-) A=72868 1.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.06e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

IB

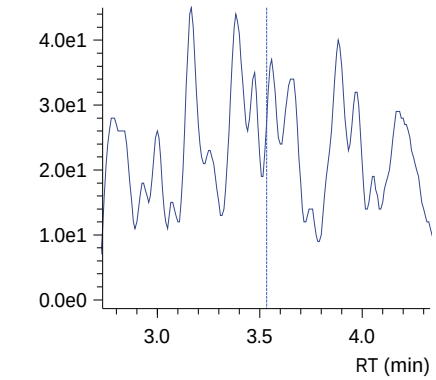
Sample ID: IB
Date Acquired: 4/8/2024 12:13:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-019.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	147894	----	ng/mL	101.00 >85.00	0.00	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.508	147894	147894	1.0000	ng/mL	----	----	

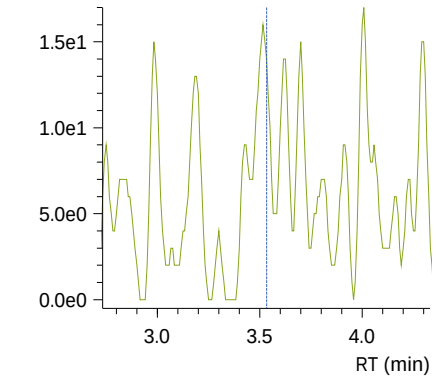
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 4.50e1



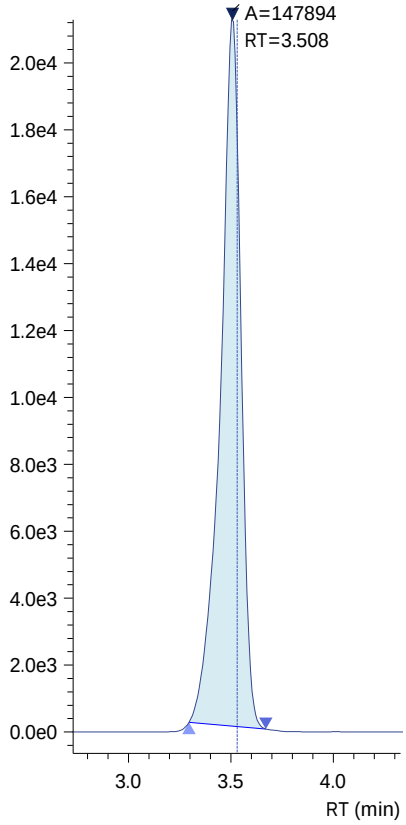
R1 101.00>85.00 (-) 1.70e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.13e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

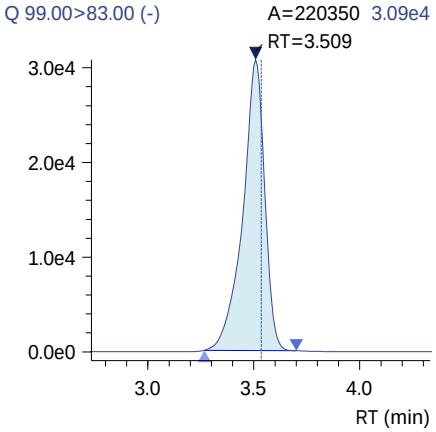
CCV

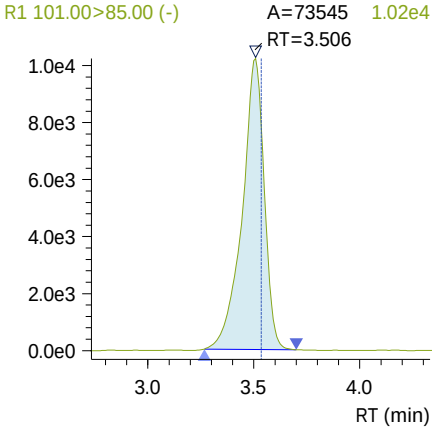
Sample ID: CCV
Date Acquired: 4/8/2024 1:49:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-030.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.509	220350 3.09e4	140041	10.1555	ng/mL	101.00 >85.00	33.38	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.505	140041 2.01e4	140041	1.0000	ng/mL	----	----	

Perchlorate

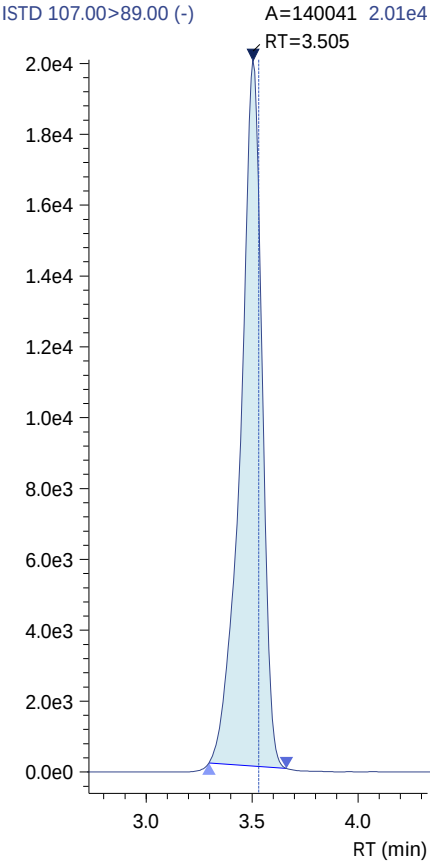
Conc 10.1555
R#1 33.38 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:12:22 PM

IB

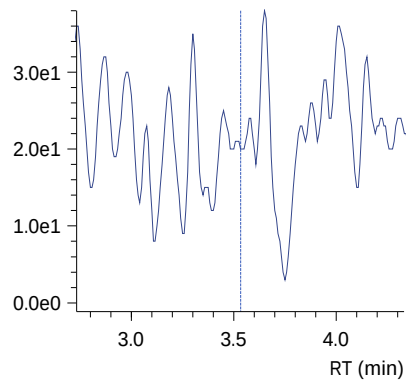
Sample ID: IB
Date Acquired: 4/8/2024 1:54:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-031.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	141518	----	ng/mL	101.00 >85.00	0.00	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.505	141518	141518	1.0000	ng/mL	----	----	

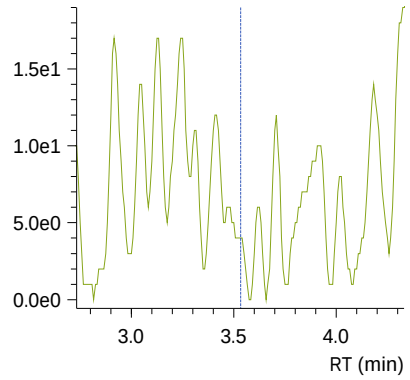
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.80e1



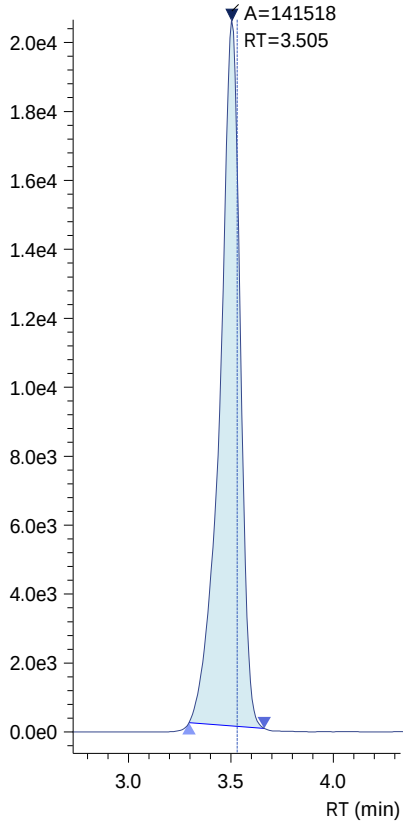
R1 101.00>85.00 (-) 1.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.07e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

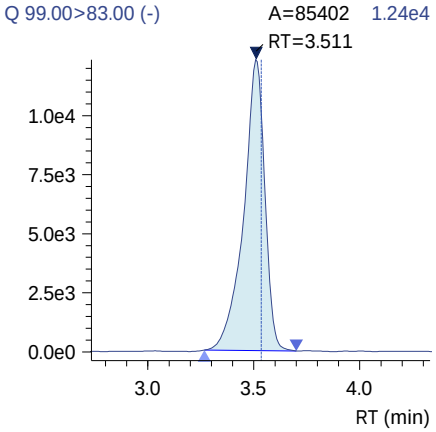
E2400329-001

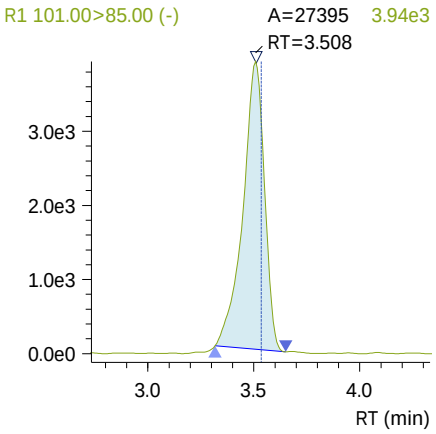
Sample ID: E2400329-001
Date Acquired: 4/8/2024 12:47:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-024.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.511	85402	163741	3.3663	ng/mL	101.00 >85.00	32.08	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.508	163741	163741	1.0000	ng/mL	----	----	

Perchlorate

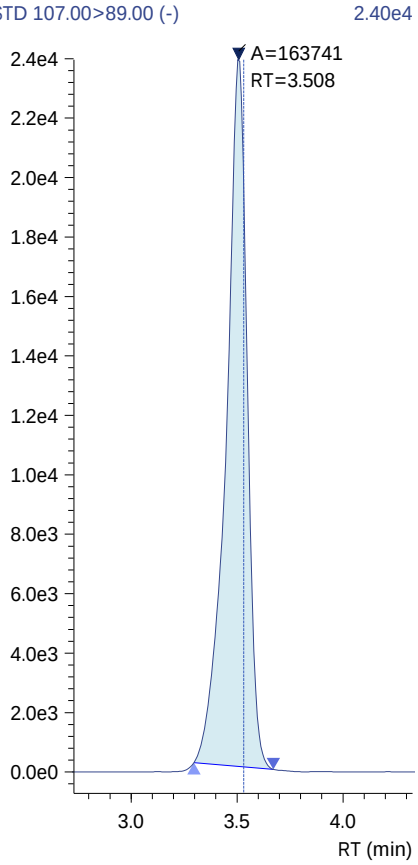
Conc 3.3663
R#1 32.08 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:12:22 PM

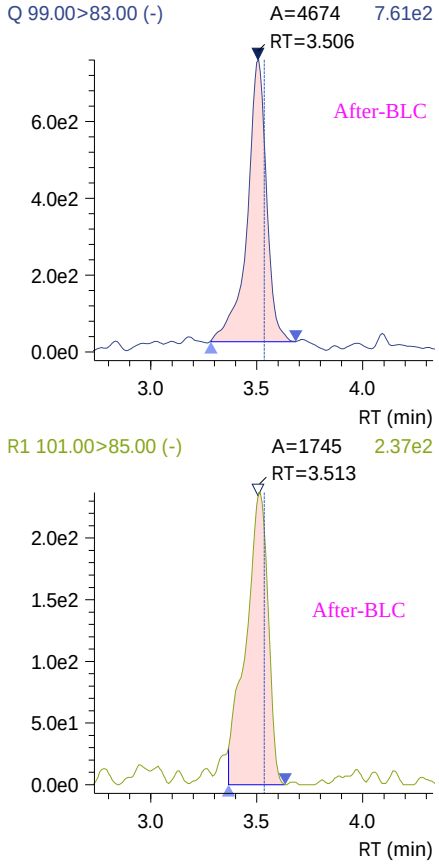
E2400329-002

Sample ID: E2400329-002
Date Acquired: 4/8/2024 12:53:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-025.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.506	4674	153963	0.1959	ng/mL	101.00 >85.00	37.34	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.508	153963	153963	1.0000	ng/mL	----	----	

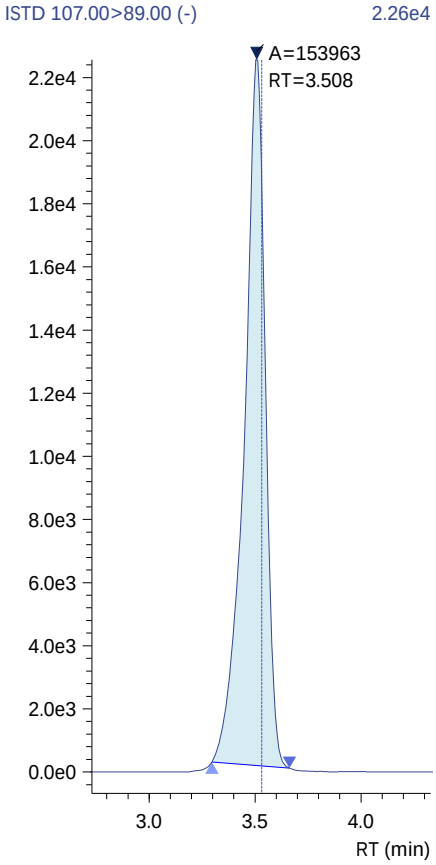
Perchlorate

Conc 0.1959
R#1 37.34 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:15:22 PM

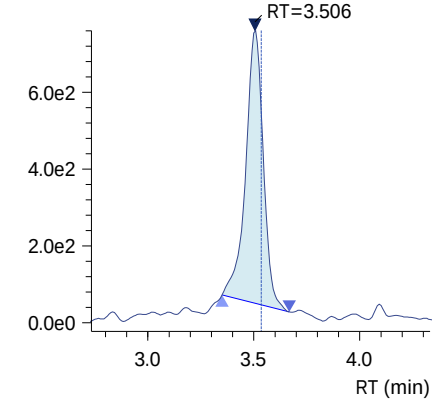
E2400329-002

Sample ID: E2400329-002
Date Acquired: 4/8/2024 12:53:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-025.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 4

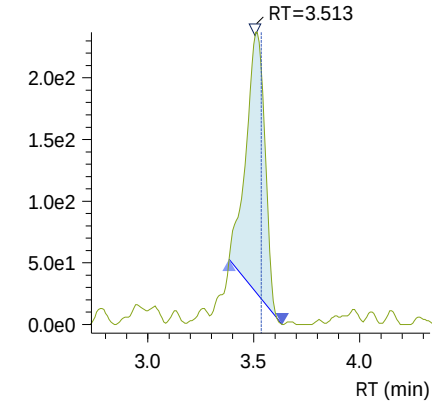
Perchlorate

Conc 0.1726
R#1 31.73 (34.10)

Q 99.00>83.00 (-) A=4118 7.61e2



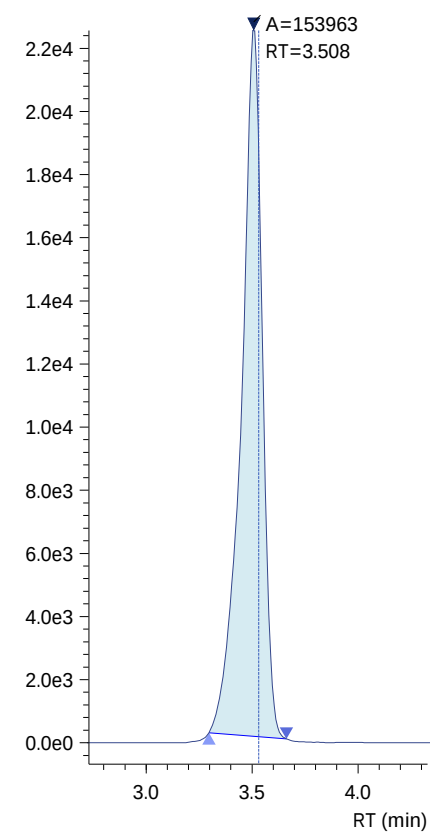
R1 101.00>85.00 (-) A=1307 2.37e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.26e4



Insight Report

Printed at 4/8/2024 3:12:22 PM

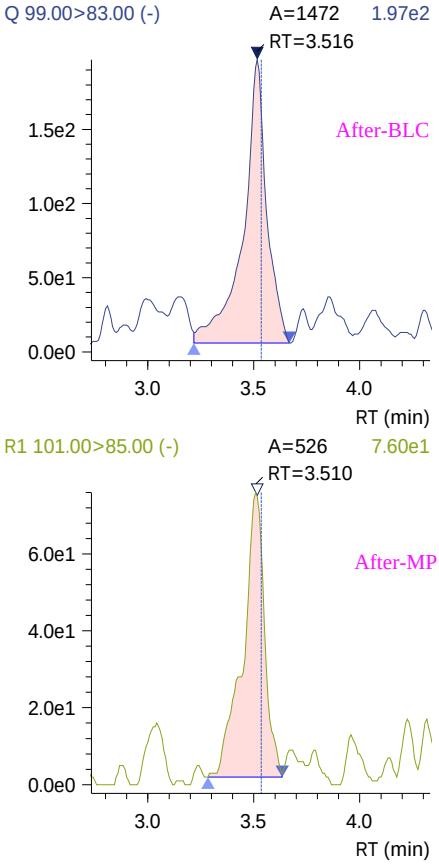
E2400329-003

Sample ID: E2400329-003
Date Acquired: 4/8/2024 12:58:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-026.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.516	1472	148521	0.0640	ng/mL	101.00 >85.00	35.72	22.32 -42.70
Sodium Perchlorate-18O4_IS	Auto	3.508	148521	148521	1.0000	ng/mL	----	----	

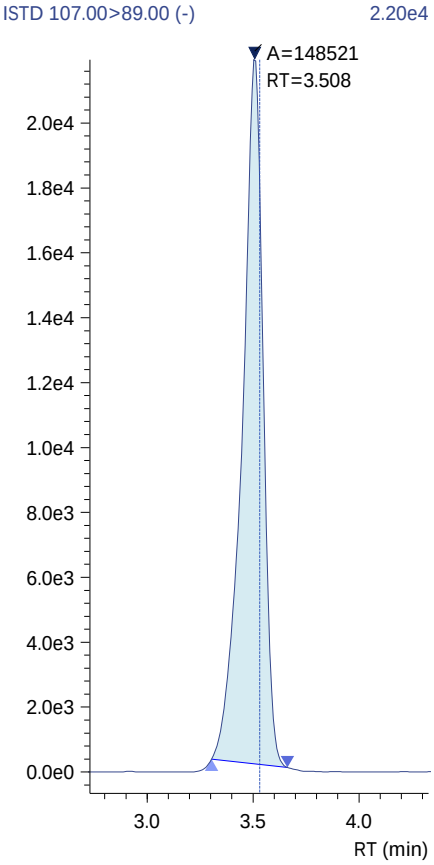
Perchlorate

Conc 0.0640
R#1 35.72 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/8/2024 3:15:22 PM

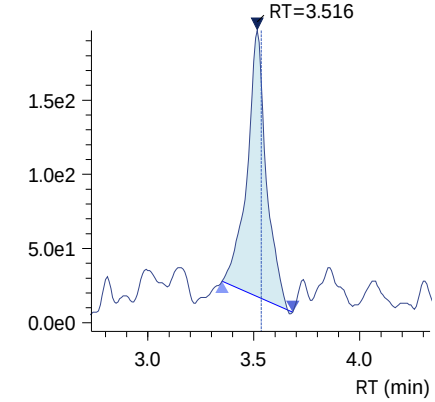
E2400329-003

Sample ID: E2400329-003
Date Acquired: 4/8/2024 12:58:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240408\20240408-026.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 4

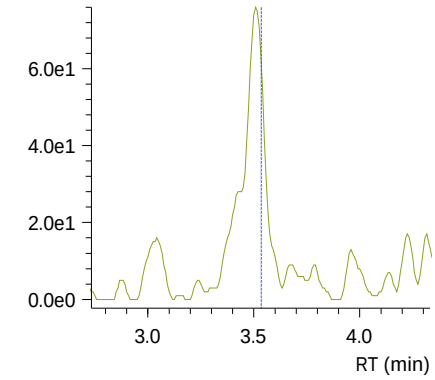
Perchlorate

Conc 0.0492
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1133 1.97e2



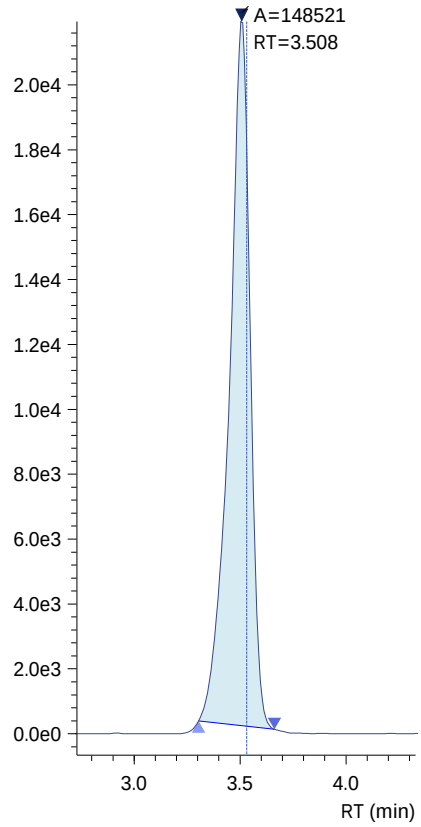
R1 101.00>85.00 (-) 7.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.20e4



HS24040221 Wetchem NIT-AMM_W- E350.3 - ISE

ALS WO# HS24040221

Nit_Am_W_350.3 ISE

ALS Laboratory Group

Logbook **32511**

Ion Selective Electrode Logbook

Analyst: MM			Date: 4/4/24 1140		
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F					
Probe Calibration Date: 4/4/24	Cal Std ID: 325100912		Probe ID: NH3-10		
Std Level	mV	Conc., mg/L:	Sodium Thiosulfate ID:		
STD 1 (mg/L):	106.6	0.199	Std Level	mV	Conc., mg/L:
STD 2 (mg/L):	104.6	1.005	STD 4 (mg/L):	44.9	10.041
STD 3 (mg/L):	62.1	5.017	STD 5 (mg/L):	3.8	50.100
LSC / MS Spike ID: 311202024044			ICAL Date & Slope: 99.8 %/-58.9		
ICV Cal STD ID: 325100912					
DPD Reagent ID: 300100908					

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/−)	Comments
ICV		50	50		10.604			
ICB		〃	〃		0.009			
MBLK		25	25		0.007			
LCS		〃	〃		10.222			
0221-1		50	50		46.271		-ve	
0127-1					41.415		〃	
0041-1					5.569		〃	
0195-1					4.714		〃	
0112-1					1.099		~~+ve~~	~~Recheck~~.
0041-1					5.569		+ve	Recheck
0127-1 ~~0127-1~~ MS					15.333		-ve	
0127-1 ~~0127-1~~ MSD					15.381		〃	MM 4/24/24
CCV					9.488			
CCB					0.009			

Batch ID:	Reported By	Reviewed By:
463051/463052	MM	

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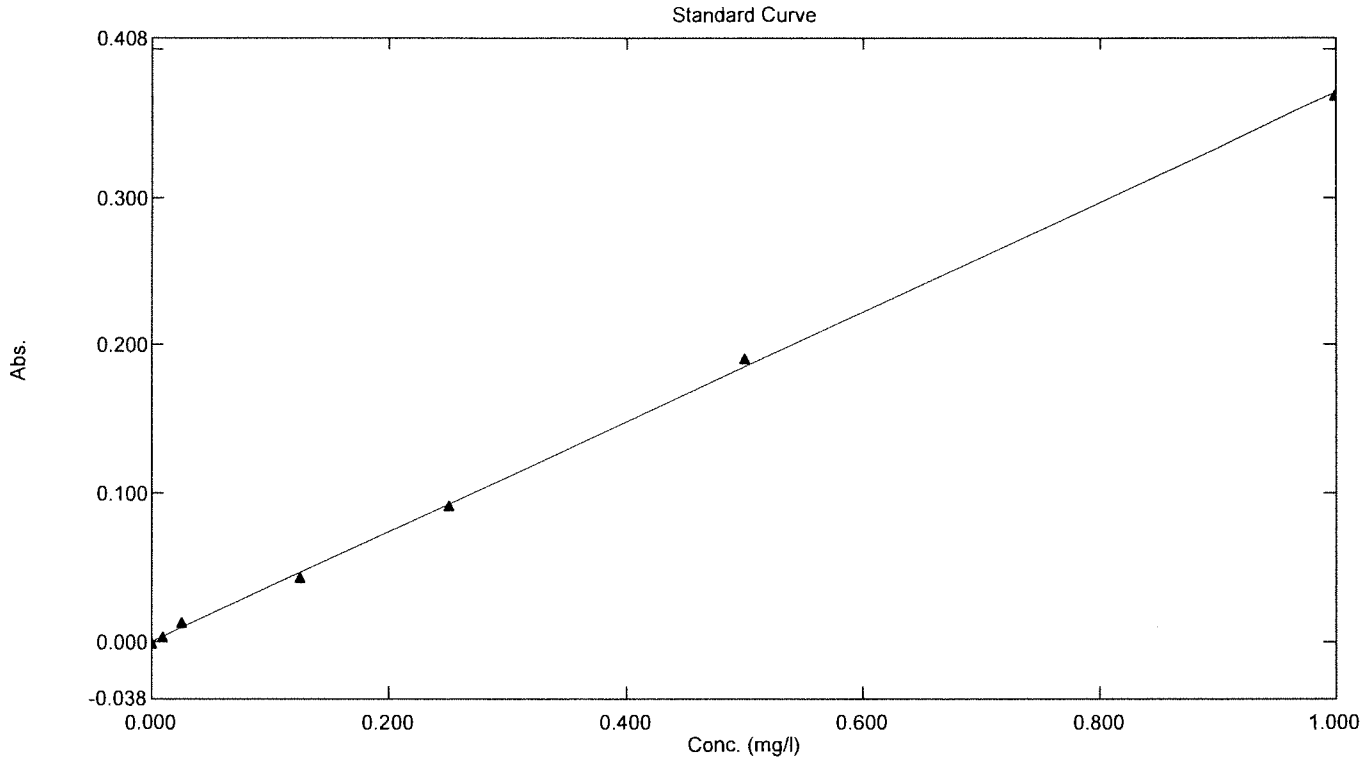
HS24040221 Wetchem P-ORTHO

ALS WO# HS24040221

Standard Table Report

04/09/2024 08:03:00 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\04032024P_ORTHO .pho



Correlation Coefficient r2 = 0.99941

Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.001	1.000	
2	STD2	Standard		0.010	0.003	1.000	
3	STD3	Standard		0.025	0.013	1.000	
4	STD4	Standard		0.125	0.043	1.000	
5	STD5	Standard		0.250	0.091	1.000	
6	STD6	Standard		0.500	0.191	1.000	
7	STD7	Standard		1.000	0.369	1.000	06/06/2024
8							

Sample Table Report

04/09/2024 08:03:04 PM

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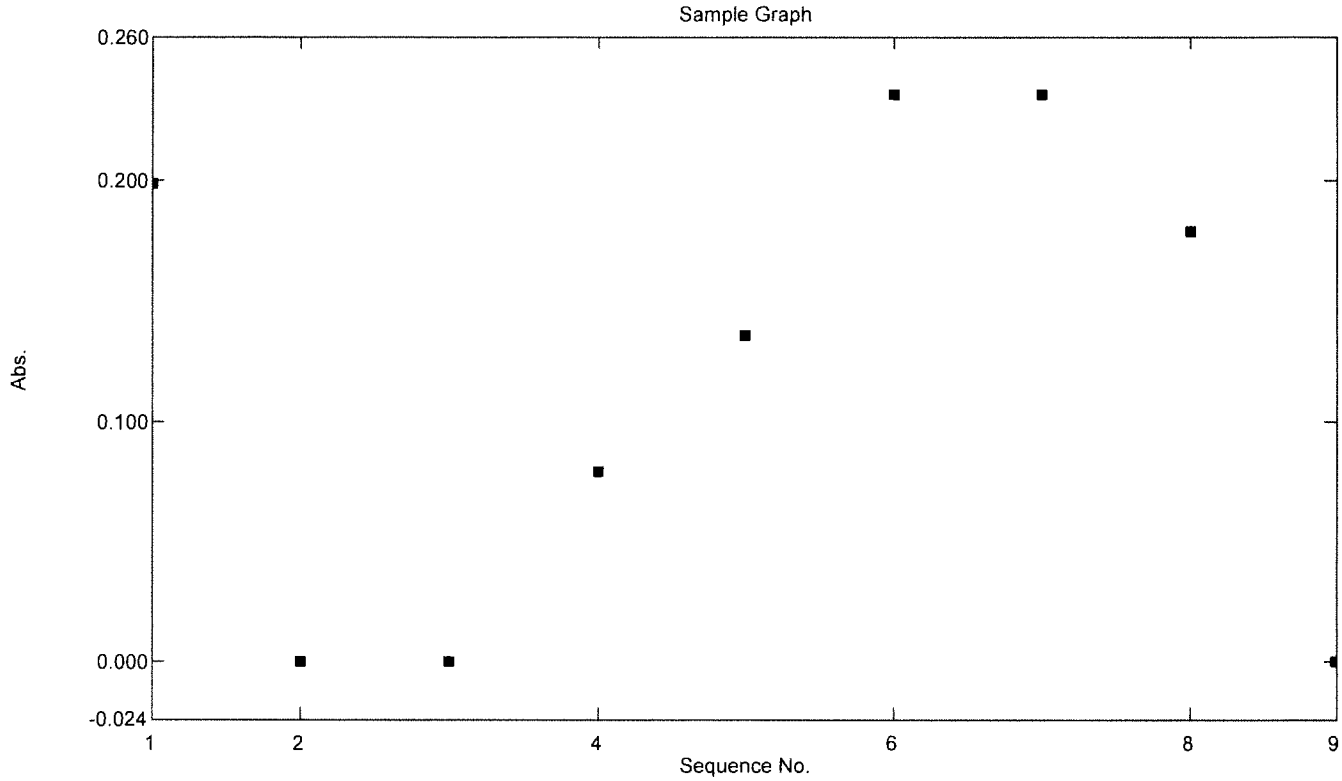


Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	04/03/2024	05:26:31 PM	0.535	0.199	
2	CCB	04/03/2024	05:27:24 PM	0.000	0.000	
3	MBLK	04/03/2024	05:27:26 PM	-0.000	-0.000	
4	LCS	04/03/2024	05:31:39 PM	0.214	0.079	
5	HS24040221.01	04/03/2024	05:32:25 PM	0.365	0.135	PF10X
6	HS24040221.01MS	04/03/2024	05:35:45 PM	0.637	0.236	PF10X
7	HS24040221.01MSD	04/03/2024	05:35:48 PM	0.637	0.236	PF10X
8	CCV1	04/03/2024	05:37:11 PM	0.483	0.179	
9	CCB1	04/03/2024	05:37:29 PM	0.000	0.000	
10						

HS24040221 Wetchem TOC_W

ALS WO# HS24040221

C:\TOC-L\Data\2024_04_02_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	3100608307	04.02.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.02.2024.	1.000	NPOC:10.01mg/L	
3	Unknown	NPOC	ICB		04.02.2024.	1.000	NPOC:0.03832mg/	

C:\TOC-L\Data\2024_04_02_001.tlx

	Status	Date / Time	Vial
1	Completed	4/2/2024 6:05:58 P	1, 2, 3, 4, 5,
2	Completed	4/2/2024 6:21:59 P	8
3	Completed	4/2/2024 6:35:41 P	1

TOC-Control L Report

2024_04_02_001.tlx

Instr.Information

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

Cal. Curve

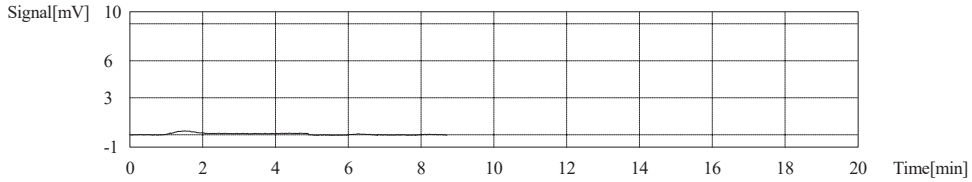
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.02.2024.2024_04_02_16_15_39.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.849	50uL	1.000	T******		4/2/2024 4:27:52 PM
2	0.000	50uL	1.000	*******		4/2/2024 4:30:01 PM
3	0.000	50uL	1.000	*******		4/2/2024 4:32:09 PM

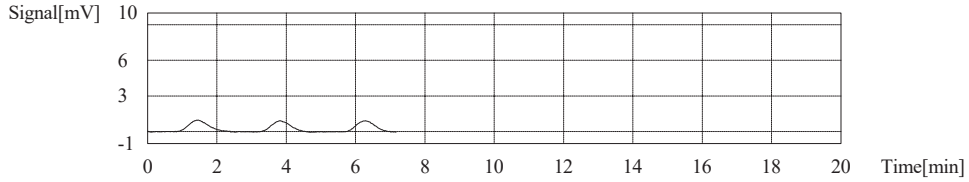
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	0.6163



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.810	50uL	1.000	*******		4/2/2024 4:41:18 PM
2	3.712	50uL	1.000	*******		4/2/2024 4:43:59 PM
3	3.529	50uL	1.000	*******		4/2/2024 4:46:33 PM

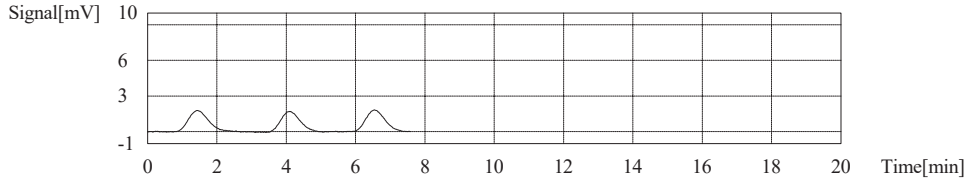
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	3.684



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.263	50uL	1.000	*******		4/2/2024 4:55:58 PM
2	6.856	50uL	1.000	*******		4/2/2024 4:58:40 PM
3	7.020	50uL	1.000	*******		4/2/2024 5:01:22 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	7.046



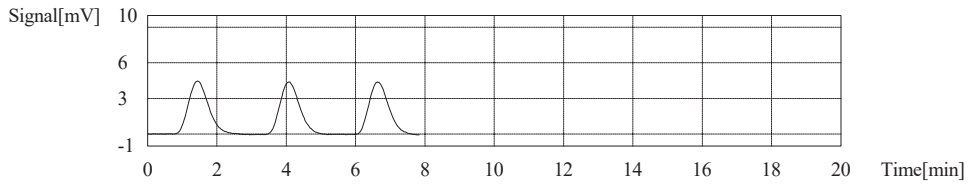
TOC-Control L Report

2024_04_02_001.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.97	50uL	1.000	*******		4/2/2024 5:10:47 PM
2	17.76	50uL	1.000	*******		4/2/2024 5:13:35 PM
3	17.80	50uL	1.000	*******		4/2/2024 5:16:26 PM

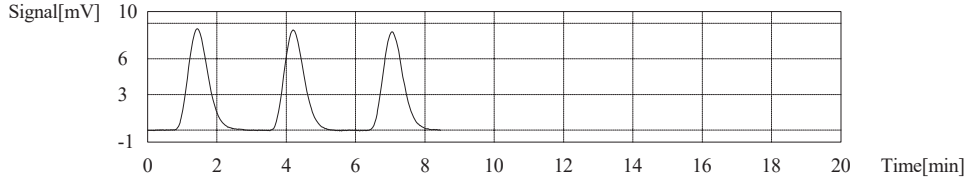
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 17.84



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	34.48	50uL	1.000	*******		4/2/2024 5:25:58 PM
2	34.45	50uL	1.000	*******		4/2/2024 5:29:04 PM
3	33.99	50uL	1.000	*******		4/2/2024 5:32:08 PM

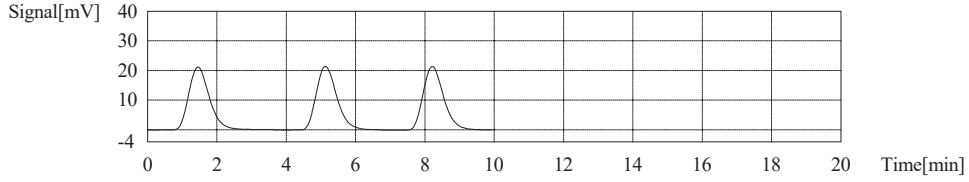
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 34.31



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	88.61	50uL	1.000	*******		4/2/2024 5:42:34 PM
2	89.09	50uL	1.000	*******		4/2/2024 5:45:55 PM
3	89.01	50uL	1.000	*******		4/2/2024 5:49:21 PM

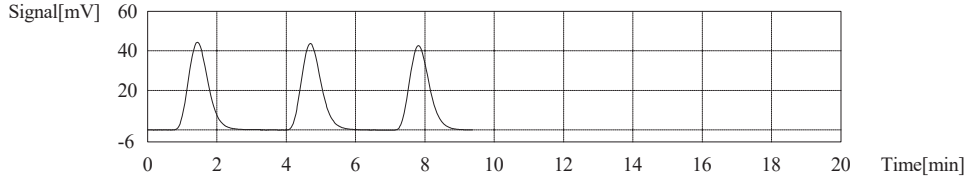
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 88.90



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	178.6	50uL	1.000	*******		4/2/2024 5:59:23 PM
2	176.9	50uL	1.000	*******		4/2/2024 6:02:45 PM
3	173.0	50uL	1.000	*******		4/2/2024 6:05:58 PM

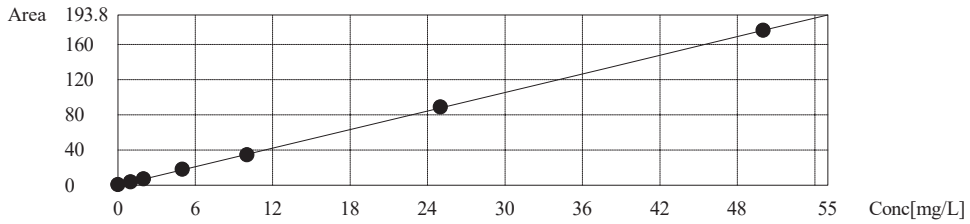
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 176.2



TOC-Control L Report

2024_04_02_001.tlx

Slope:	3.524
Intercept	0.000
r^2	0.9999
r	1.0000
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.02.2024.cal
Status	Completed
Chk. Result	

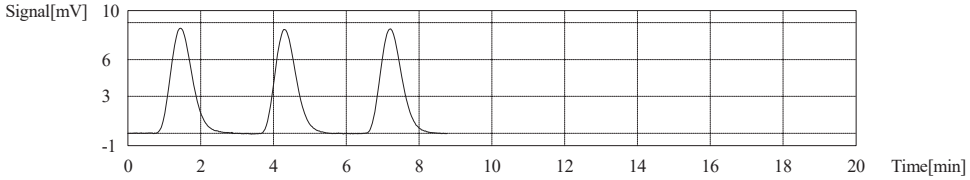
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.59	10.10mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/2/2024 6:15:36 PM
2	34.86	9.893mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/2/2024 6:18:43 PM
3	35.34	10.03mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/2/2024 6:21:59 PM

Mean Area	35.26
Mean Conc.	10.01mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.02.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03832mg/L

1. Det

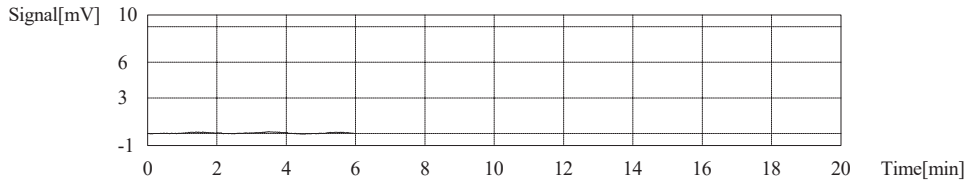
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3237	0.09187mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/2/2024 6:31:24 PM
2	0.08140	0.02310mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/2/2024 6:33:33 PM
3	0.000	0.000mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/2/2024 6:35:41 PM

TOC-Control L Report

2024_04_02_001.tlx

Mean Area	0.1350
Mean Conc.	0.03832mg/L



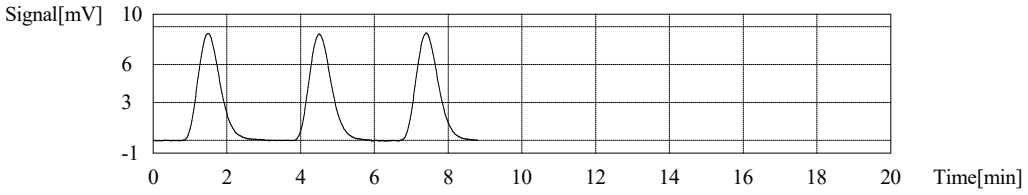
C:\TOC-L\Data\2024_04_03_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV		04.02.2024.	1.000	NPOC:25.28mg/L	
2	Unknown	NPOC	CCB		04.02.2024.	1.000	NPOC:0.1459mg/L	
3	Unknown	NPOC	MBLK-04032024		04.02.2024.	1.000	NPOC:0.1002mg/L	
4	Unknown	NPOC	LCS-04032024		04.02.2024.	1.000	NPOC:10.16mg/L	
5	Unknown	NPOC	LCSD-04032021		04.02.2024.	1.000	NPOC:10.27mg/L	
6	Unknown	NPOC	HS24040062-01DF10		04.02.2024.	1.000	NPOC:1.878mg/L	
7	Unknown	NPOC	HS24040062-02DF10		04.02.2024.	1.000	NPOC:2.226mg/L	
8	Unknown	NPOC	HS24040062-03DF10		04.02.2024.	1.000	NPOC:1.326mg/L	
9	Unknown	NPOC	HS24040062-04DF10		04.02.2024.	1.000	NPOC:7.650mg/L	
10	Unknown	NPOC	HS24040062-05DF10		04.02.2024.	1.000	NPOC:10.16mg/L	
11	Unknown	NPOC	HS24040062-06DF10		04.02.2024.	1.000	NPOC:1.742mg/L	
12	Unknown	NPOC	CCV		04.02.2024.	1.000	NPOC:25.72mg/L	
13	Unknown	NPOC	CCB		04.02.2024.	1.000	NPOC:0.2296mg/L	
14	Unknown	NPOC	HS24040221-01		04.02.2024.	1.000	NPOC:3.759mg/L	
15	Unknown	NPOC	HS24040221-01MS		04.02.2024.	1.000	NPOC:13.70mg/L	
16	Unknown	NPOC	HS24040157-01		04.02.2024.	1.000	NPOC:6.542mg/L	
17	Unknown	NPOC	HS24040157-02		04.02.2024.	1.000	NPOC:6.576mg/L	
18	Unknown	NPOC	HS24040157-03		04.02.2024.	1.000	NPOC:6.456mg/L	
19	Unknown	NPOC	CCV		04.02.2024.	1.000	NPOC:25.68mg/L	
20	Unknown	NPOC	CCB		04.02.2024.	1.000	NPOC:0.1592mg/L	
21	Unknown	NPOC	MBLK-04032024		04.02.2024.	1.000	NPOC:0.09427mg/	
22	Unknown	NPOC	LCS-04032024		04.02.2024.	1.000	NPOC:10.11mg/L	
23	Unknown	NPOC	LCSD-04032021		04.02.2024.	1.000	NPOC:10.16mg/L	
24	Unknown	NPOC	HS24040135-01		04.02.2024.	1.000	NPOC:8.059mg/L	
25	Unknown	NPOC	HS24040135-01MS		04.02.2024.	1.000	NPOC:17.84mg/L	
26	Unknown	NPOC	HS24040149-01		04.02.2024.	1.000	NPOC:0.2257mg/L	
27	Unknown	NPOC	HS24040036-02		04.02.2024.	1.000	NPOC:10.51mg/L	
28	Unknown	NPOC	HS24031634-09DF10		04.02.2024.	1.000	NPOC:13.17mg/L	
29	Unknown	NPOC	HS24040218-01		04.02.2024.	1.000	NPOC:6.583mg/L	
30	Unknown	NPOC	CCV		04.02.2024.	1.000	NPOC:25.45mg/L	
31	Unknown	NPOC	CCB		04.02.2024.	1.000	NPOC:0.1415mg/L	
32	Unknown	NPOC	CCV		TOC_W 906	1.000	NPOC:25.41mg/L	
33	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1756mg/L	
34	Unknown	NPOC	MBLK-04032024		TOC_W 906	1.000	NPOC:0.08678mg/	
35	Unknown	NPOC	LCS-04032024		TOC_W 906	1.000	NPOC:10.09mg/L	
36	Unknown	NPOC	LCSD-04032021		TOC_W 906	1.000	NPOC:10.08mg/L	
37	Unknown	NPOC	HS24040100-01		TOC_W 906	1.000	NPOC:4.590mg/L	
38	Unknown	NPOC	HS24040100-01MS		TOC_W 906	1.000	NPOC:14.56mg/L	
39	Unknown	NPOC	HS24040100-02		TOC_W 906	1.000	NPOC:22.23mg/L	
40	Unknown	NPOC	CCV		TOC_W 906	1.000	NPOC:25.80mg/L	
41	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2437mg/L	

	Status	Date / Time	Vial
1	Completed	4/3/2024 6:48:37 P	1
2	Completed	4/3/2024 7:02:01 P	2
3	Completed	4/3/2024 7:15:22 P	3
4	Completed	4/3/2024 7:31:17 P	4
5	Completed	4/3/2024 7:47:54 P	5
6	Completed	4/3/2024 8:02:50 P	6
7	Completed	4/3/2024 8:18:01 P	7
8	Completed	4/3/2024 8:32:53 P	8
9	Completed	4/3/2024 8:48:30 P	9
10	Completed	4/3/2024 9:04:33 P	10
11	Completed	4/3/2024 9:19:21 P	11
12	Completed	4/3/2024 9:36:16 P	1
13	Completed	4/3/2024 9:50:17 P	2
14	Completed	4/3/2024 10:05:48	12
15	Completed	4/3/2024 10:23:00	13
16	Completed	4/3/2024 10:38:45	14
17	Completed	4/3/2024 10:54:19	15
18	Completed	4/3/2024 11:10:31	16
19	Completed	4/3/2024 11:27:48	1
20	Completed	4/3/2024 11:41:24	2
21	Completed	4/3/2024 11:54:27	3
22	Completed	4/4/2024 12:10:24	4
23	Completed	4/4/2024 12:26:21	5
24	Completed	4/4/2024 12:42:18	17
25	Completed	4/4/2024 12:58:26	18
26	Completed	4/4/2024 1:12:02 A	19
27	Completed	4/4/2024 1:28:11 A	20
28	Completed	4/4/2024 1:44:23 A	21
29	Completed	4/4/2024 2:00:12 A	22
30	Completed	4/4/2024 2:17:03 A	23
31	Completed	4/4/2024 2:30:29 A	24
32	Completed	4/4/2024 2:50:41 A	23
33	Completed	4/4/2024 3:06:28 A	24
34	Completed	4/4/2024 3:22:00 A	3
35	Completed	4/4/2024 3:40:54 A	4
36	Completed	4/4/2024 3:59:51 A	5
37	Completed	4/4/2024 4:18:33 A	25
38	Completed	4/4/2024 4:37:52 A	26
39	Completed	4/4/2024 4:57:40 A	27
40	Completed	4/4/2024 5:17:54 A	23
41	Completed	4/4/2024 5:33:45 A	24

TOC-Control L Report

Mean Area 35.79
Mean Conc. 10.16mg/L



Sample

Sample Name: HS24040062-06DF10
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

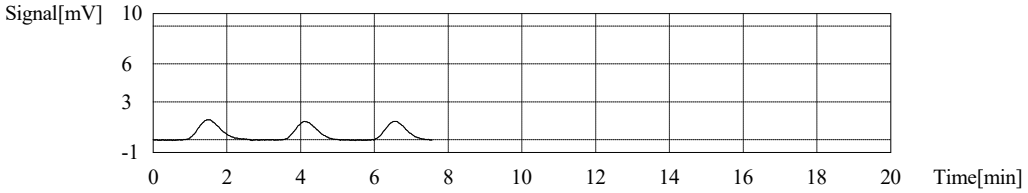
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.742mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.661	1.890mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:13:57 PM
2	5.862	1.664mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:16:37 PM
3	5.887	1.671mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:19:21 PM

Mean Area 6.137
Mean Conc. 1.742mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.72mg/L

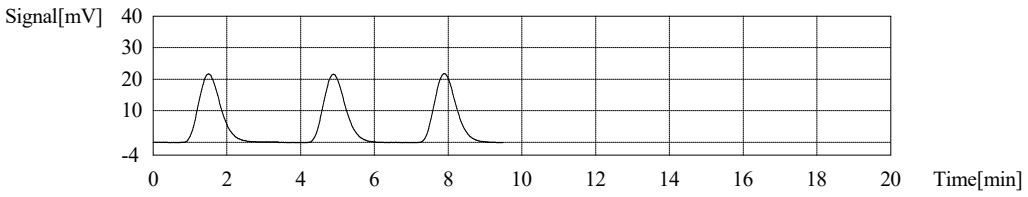
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.96	25.81mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:29:41 PM
2	90.18	25.59mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:32:58 PM
3	90.79	25.77mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:36:16 PM

TOC-Control L Report

Mean Area 90.64
Mean Conc. 25.72mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

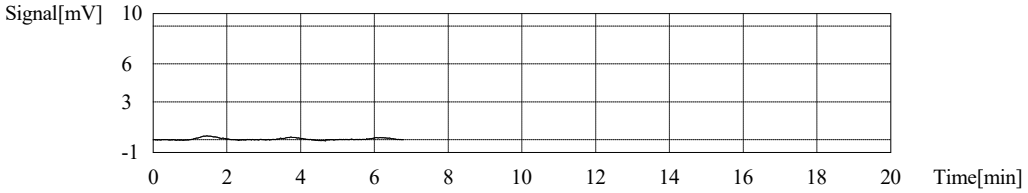
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2296mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.180	0.3349mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:45:20 PM
2	0.8058	0.2287mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:47:57 PM
3	0.4411	0.1252mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:50:17 PM

Mean Area 0.8090
Mean Conc. 0.2296mg/L



Sample

Sample Name: HS24040221-01
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.759mg/L

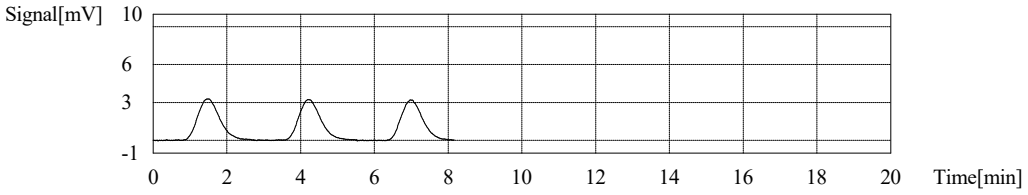
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.68	3.882mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 9:59:53 PM
2	13.13	3.726mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:02:55 PM
3	12.93	3.670mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:05:48 PM

TOC-Control L Report

Mean Area 13.25
Mean Conc. 3.759mg/L



Sample

Sample Name: HS24040221-01MS
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

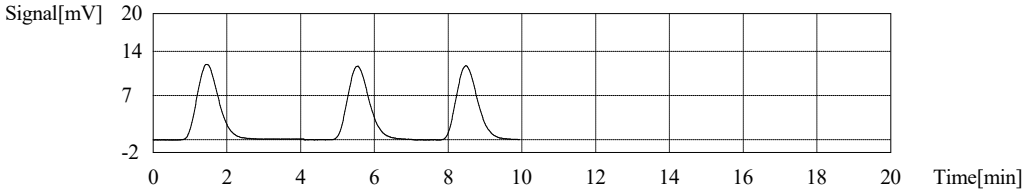
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.70mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.46	14.04mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:16:39 PM
2	47.59	13.51mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:19:50 PM
3	47.74	13.55mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:23:00 PM

Mean Area 48.26
Mean Conc. 13.70mg/L



Sample

Sample Name: HS24040157-01
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.542mg/L

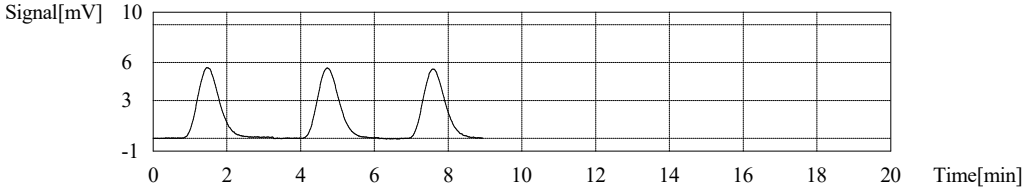
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	23.00	6.527mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:32:50 PM
2	23.24	6.595mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:35:49 PM
3	22.92	6.505mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 10:38:45 PM

TOC-Control L Report

Mean Area 22.75
Mean Conc. 6.456mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

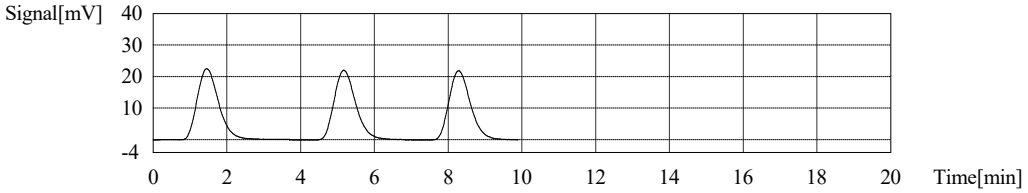
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.68mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.94	26.09mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:21:06 PM
2	90.37	25.65mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:24:29 PM
3	89.18	25.31mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:27:48 PM

Mean Area 90.50
Mean Conc. 25.68mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1592mg/L

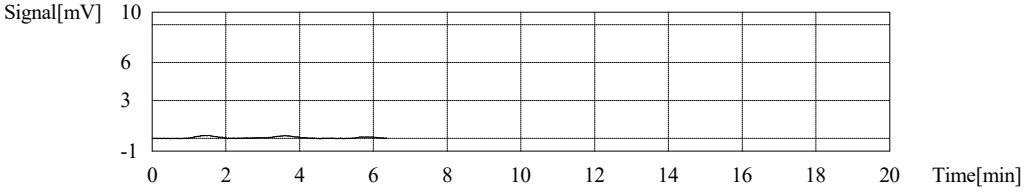
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7945	0.2255mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:36:45 PM
2	0.4947	0.1404mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:39:12 PM
3	0.3932	0.1116mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:41:24 PM

TOC-Control L Report

Mean Area 0.5608
Mean Conc. 0.1592mg/L



Sample

Sample Name: MBLK-04032024
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

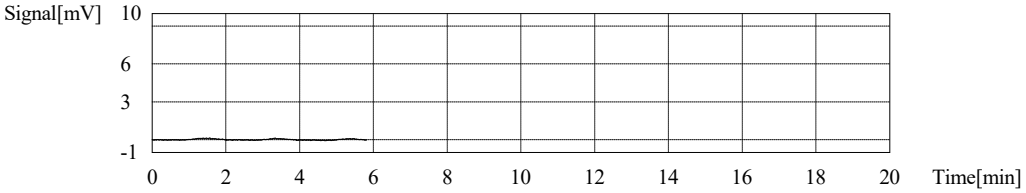
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09427mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4263	0.1210mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:50:10 PM
2	0.2094	0.05943mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:52:18 PM
3	0.3608	0.1024mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/3/2024 11:54:27 PM

Mean Area 0.3322
Mean Conc. 0.09427mg/L



Sample

Sample Name: LCS-04032024
Sample ID:
Origin: 04.02.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.11mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.59	10.10mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/4/2024 12:04:16 AM
2	35.37	10.04mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/4/2024 12:07:18 AM
3	35.89	10.19mg/L	50uL	1.000		04.02.2024.2024_04_02_16_15_39.cal	4/4/2024 12:10:24 AM

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WorkOrder: HS24040371

GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

01-May-2024

WorkOrder: HS24040371

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HS24040371 GROUNDWATER TREATMENT PLANT BIWEEKLY SAMPLES Final

ALS WO# HS24040371

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April 17, 2024

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

Work Order: **HS24040371**

Laboratory Results for: **GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Apr 03, 2024 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: DAYNA.FISHER
luis.aguilar

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Work Order: HS24040371

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24040371-01	LH18/24-SP650_040224	Water		02-Apr-2024 13:00	03-Apr-2024 10:10	☐
HS24040371-02	Trip Blank	Water	cg-120823-346	02-Apr-2024 13:00	03-Apr-2024 10:10	☐

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Work Order: HS24040371

GCMS Volatiles by Method SW8260

Batch ID: R464219

Sample ID: Trip Blank (HS24040371-02)

- Trichlorofluoromethane hit was confirmed by re-analysis.

Sample ID: VSTD050

- 1,2,3-Trichlorobenzene and 1,3-Dichlorobenzene are exceeded %D limits on CCV. Associated samples are ND for the analytes.

Sample ID: VLCSDW-240416

- The RPD between the LCS and LCSD was outside of the control limit.

Sample ID: HS24040905-04MSD

- MSD is for an unrelated sample

WetChemistry by Method SW9056

Batch ID: R463286

Sample ID: HS24040436-01MS

- MS and MSD are for an unrelated sample (Sulfate)

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24040371

Sample ID: LH18/24-SP650_040224 Lab ID:HS24040371-01

Collection Date: 02-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Apr-2024 18:14
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Apr-2024 18:14
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Apr-2024 18:14
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Apr-2024 18:14
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Apr-2024 18:14
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14

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

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24040371

Sample ID: LH18/24-SP650_040224 Lab ID:HS24040371-01

Collection Date: 02-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: AKP
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
cis-1,2-Dichloroethene	**1.4**		**0.20**	**1.0**	**1.0**	**ug/L**	1	16-Apr-2024 18:14
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Apr-2024 18:14
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	16-Apr-2024 18:14
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 18:14
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Trichloroethene	**0.23**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	16-Apr-2024 18:14
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 18:14
Surr: 1,2-Dichloroethane-d4	*97.2*			**0**	*81-118*	*%REC*	*1*	*16-Apr-2024 18:14*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*16-Apr-2024 18:14*
Surr: Dibromofluoromethane	*93.4*			**0**	*80-119*	*%REC*	*1*	*16-Apr-2024 18:14*
Surr: Toluene-d8	*96.3*			**0**	*89-112*	*%REC*	*1*	*16-Apr-2024 18:14*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**1,120**		**4.00**	**5.00**	**10.0**	**mg/L**	20	06-Apr-2024 21:07
Sulfate	**38.9**		**0.200**	**0.250**	**0.500**	**mg/L**	1	06-Apr-2024 21:01

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

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24040371

Sample ID: Trip Blank Lab ID:HS24040371-02

Collection Date: 02-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Apr-2024 17:52
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Apr-2024 17:52
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Apr-2024 17:52
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Apr-2024 17:52
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Apr-2024 17:52
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52

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

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24040371

Sample ID: Trip Blank Lab ID:HS24040371-02

Collection Date: 02-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Apr-2024 17:52
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	16-Apr-2024 17:52
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	16-Apr-2024 17:52
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Trichlorofluoromethane	**1.5**		**0.30**	**1.0**	**1.0**	**ug/L**	1	16-Apr-2024 17:52
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	16-Apr-2024 17:52
Surr: 1,2-Dichloroethane-d4	*95.9*			**0**	*81-118*	*%REC*	*1*	*16-Apr-2024 17:52*
Surr: 4-Bromofluorobenzene	*97.5*			**0**	*85-114*	*%REC*	*1*	*16-Apr-2024 17:52*
Surr: Dibromofluoromethane	*93.5*			**0**	*80-119*	*%REC*	*1*	*16-Apr-2024 17:52*
Surr: Toluene-d8	*97.3*			**0**	*89-112*	*%REC*	*1*	*16-Apr-2024 17:52*

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

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R463286 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24040371-01	LH18/24-SP650_040224	02 Apr 2024 13:00			06 Apr 2024 21:07	20
HS24040371-01	LH18/24-SP650_040224	02 Apr 2024 13:00			06 Apr 2024 21:01	1
Batch ID: R464219 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24040371-01	LH18/24-SP650_040224	02 Apr 2024 13:00			16 Apr 2024 18:14	1
HS24040371-02	Trip Blank	02 Apr 2024 13:00			16 Apr 2024 17:52	1

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240416** Units: **ug/L** Analysis Date: **16-Apr-2024 17:30**
Client ID: Run ID: **VOA11_464219** SeqNo: **7951753** PrepDate: DF: **1**

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

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument:** VOA11 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240416** Units: **ug/L** Analysis Date: **16-Apr-2024 17:30**
Client ID: Run ID: **VOA11_464219** SeqNo: **7951753** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*48.31*	*35*	*50*	*0*	*96.6*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.62*	*35*	*50*	*0*	*99.2*	*85 - 114*				
Surr: Dibromofluoromethane	*46.56*	*35*	*50*	*0*	*93.1*	*80 - 119*				
Surr: Toluene-d8	*50.62*	*35*	*50*	*0*	*101*	*89 - 112*				

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240416** Units: **ug/L** Analysis Date: **16-Apr-2024 16:23**
Client ID: Run ID: **VOA11_464219** SeqNo: **7951751** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	20.45	1.0	20	0	102	78 - 124			
1,1,1-Trichloroethane	21.5	1.0	20	0	108	74 - 131			
1,1,2,2-Tetrachloroethane	19.33	1.0	20	0	96.6	71 - 121			
1,1,2-Trichloroethane	20.98	1.0	20	0	105	80 - 119			
1,1-Dichloroethane	20.14	1.0	20	0	101	77 - 125			
1,1-Dichloroethene	20.71	1.0	20	0	104	71 - 131			
1,1-Dichloropropene	20.07	1.0	20	0	100	78 - 125			
1,2,3-Trichlorobenzene	21.79	1.0	20	0	109	69 - 129			
1,2,3-Trichloropropane	19.66	1.0	20	0	98.3	73 - 122			
1,2,4-Trichlorobenzene	20.53	1.0	20	0	103	69 - 130			
1,2,4-Trimethylbenzene	18.72	1.0	20	0	93.6	76 - 124			
1,2-Dibromo-3-chloropropane	18.6	1.0	20	0	93.0	62 - 128			
1,2-Dibromoethane	20.36	1.0	20	0	102	77 - 121			
1,2-Dichlorobenzene	20.19	1.0	20	0	101	80 - 119			
1,2-Dichloroethane	19.64	1.0	20	0	98.2	73 - 128			
1,2-Dichloropropane	19.1	1.0	20	0	95.5	78 - 122			
1,3,5-Trimethylbenzene	18.73	1.0	20	0	93.6	75 - 124			
1,3-Dichlorobenzene	21.48	1.0	20	0	107	80 - 119			
1,3-Dichloropropane	21.08	1.0	20	0	105	80 - 119			
1,4-Dichlorobenzene	19.33	1.0	20	0	96.6	79 - 118			
2,2-Dichloropropane	18.98	1.0	20	0	94.9	60 - 139			
2-Butanone	39.68	2.0	40	0	99.2	56 - 143			
2-Chlorotoluene	19.65	1.0	20	0	98.3	79 - 122			
2-Hexanone	44.24	2.0	40	0	111	57 - 139			
4-Chlorotoluene	18.89	1.0	20	0	94.5	78 - 122			
4-Isopropyltoluene	19.62	1.0	20	0	98.1	77 - 127			
4-Methyl-2-pentanone	45.16	2.0	40	0	113	67 - 130			
Acetone	42.79	2.0	40	0	107	39 - 160			
Benzene	19.07	1.0	20	0	95.4	79 - 120			
Bromobenzene	20.34	1.0	20	0	102	80 - 120			
Bromochloromethane	19.3	1.0	20	0	96.5	78 - 123			
Bromodichloromethane	19.65	1.0	20	0	98.3	79 - 125			
Bromoform	19.12	1.0	20	0	95.6	66 - 130			
Bromomethane	19.44	1.0	20	0	97.2	53 - 141			

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240416** Units: **ug/L** Analysis Date: **16-Apr-2024 16:23**
Client ID: Run ID: **VOA11_464219** SeqNo: **7951751** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	39.92	2.0	40	0	99.8	64 - 133			
Carbon tetrachloride	19.04	1.0	20	0	95.2	72 - 136			
Chlorobenzene	18.94	1.0	20	0	94.7	82 - 118			
Chloroethane	20.44	1.0	20	0	102	60 - 138			
Chloroform	19.39	1.0	20	0	96.9	79 - 124			
Chloromethane	17.03	1.0	20	0	85.2	50 - 139			
cis-1,2-Dichloroethene	21	1.0	20	0	105	78 - 123			
cis-1,3-Dichloropropene	18.99	1.0	20	0	95.0	75 - 124			
Dibromochloromethane	18.55	1.0	20	0	92.8	74 - 126			
Dibromomethane	20.16	1.0	20	0	101	79 - 123			
Dichlorodifluoromethane	18.86	1.0	20	0	94.3	32 - 152			
Ethylbenzene	21.35	1.0	20	0	107	79 - 121			
Hexachlorobutadiene	18.8	1.0	20	0	94.0	66 - 134			
Isopropylbenzene	19.47	1.0	20	0	97.3	72 - 131			
m,p-Xylene	38.3	2.0	40	0	95.7	80 - 121			
Methylene chloride	18.51	2.0	20	0	92.6	74 - 124			
Naphthalene	22.4	1.0	20	0	112	61 - 128			
n-Butylbenzene	19.01	1.0	20	0	95.0	75 - 128			
n-Propylbenzene	19.86	1.0	20	0	99.3	76 - 126			
o-Xylene	19.23	1.0	20	0	96.1	78 - 122			
sec-Butylbenzene	20	1.0	20	0	100	77 - 126			
Styrene	19.18	1.0	20	0	95.9	78 - 123			
tert-Butylbenzene	18.93	1.0	20	0	94.7	78 - 124			
Tetrachloroethene	19.79	1.0	20	0	98.9	74 - 129			
Toluene	21.14	1.0	20	0	106	80 - 121			
trans-1,2-Dichloroethene	19.81	1.0	20	0	99.0	75 - 124			
trans-1,3-Dichloropropene	19.27	1.0	20	0	96.4	73 - 127			
Trichloroethene	18.55	1.0	20	0	92.8	79 - 123			
Trichlorofluoromethane	19.85	1.0	20	0	99.2	65 - 141			
Vinyl chloride	19.26	1.0	20	0	96.3	58 - 137			
Surr: 1,2-Dichloroethane-d4	*43.24*	*35*	*50*	*0*	*86.5*	*81 - 118*			
Surr: 4-Bromofluorobenzene	*46.3*	*35*	*50*	*0*	*92.6*	*85 - 114*			
Surr: Dibromofluoromethane	*46.24*	*35*	*50*	*0*	*92.5*	*80 - 119*			
Surr: Toluene-d8	*51.48*	*35*	*50*	*0*	*103*	*89 - 112*			

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240416** Units: **ug/L** Analysis Date: **16-Apr-2024 16:46**
Client ID: Run ID: **VOA11_464219** SeqNo: **7951752** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.19	1.0	20	0	95.9	78 - 124	20.45	6.38	20	
1,1,1-Trichloroethane	19.86	1.0	20	0	99.3	74 - 131	21.5	7.95	20	
1,1,2,2-Tetrachloroethane	18.4	1.0	20	0	92.0	71 - 121	19.33	4.92	20	
1,1,2-Trichloroethane	18.41	1.0	20	0	92.1	80 - 119	20.98	13	20	
1,1-Dichloroethane	19.05	1.0	20	0	95.3	77 - 125	20.14	5.54	20	
1,1-Dichloroethene	19.82	1.0	20	0	99.1	71 - 131	20.71	4.41	20	
1,1-Dichloropropene	18.65	1.0	20	0	93.2	78 - 125	20.07	7.35	20	
1,2,3-Trichlorobenzene	20.85	1.0	20	0	104	69 - 129	21.79	4.38	20	
1,2,3-Trichloropropane	19.16	1.0	20	0	95.8	73 - 122	19.66	2.59	20	
1,2,4-Trichlorobenzene	21.55	1.0	20	0	108	69 - 130	20.53	4.85	20	
1,2,4-Trimethylbenzene	19.03	1.0	20	0	95.2	76 - 124	18.72	1.65	20	
1,2-Dibromo-3-chloropropane	19.09	1.0	20	0	95.5	62 - 128	18.6	2.64	20	
1,2-Dibromoethane	19.09	1.0	20	0	95.4	77 - 121	20.36	6.43	20	
1,2-Dichlorobenzene	21.35	1.0	20	0	107	80 - 119	20.19	5.56	20	
1,2-Dichloroethane	19.53	1.0	20	0	97.7	73 - 128	19.64	0.521	20	
1,2-Dichloropropane	18.94	1.0	20	0	94.7	78 - 122	19.1	0.881	20	
1,3,5-Trimethylbenzene	18.39	1.0	20	0	92.0	75 - 124	18.73	1.8	20	
1,3-Dichlorobenzene	20.24	1.0	20	0	101	80 - 119	21.48	5.93	20	
1,3-Dichloropropane	18.51	1.0	20	0	92.5	80 - 119	21.08	13	20	
1,4-Dichlorobenzene	19.37	1.0	20	0	96.8	79 - 118	19.33	0.184	20	
2,2-Dichloropropane	18	1.0	20	0	90.0	60 - 139	18.98	5.29	20	
2-Butanone	38.69	2.0	40	0	96.7	56 - 143	39.68	2.52	20	
2-Chlorotoluene	19.87	1.0	20	0	99.4	79 - 122	19.65	1.12	20	
2-Hexanone	35.37	2.0	40	0	88.4	57 - 139	44.24	22.3	20	R
4-Chlorotoluene	18.73	1.0	20	0	93.6	78 - 122	18.89	0.898	20	
4-Isopropyltoluene	18.39	1.0	20	0	92.0	77 - 127	19.62	6.44	20	
4-Methyl-2-pentanone	37.24	2.0	40	0	93.1	67 - 130	45.16	19.2	20	
Acetone	41.08	2.0	40	0	103	39 - 160	42.79	4.06	20	
Benzene	18.78	1.0	20	0	93.9	79 - 120	19.07	1.55	20	
Bromobenzene	19.14	1.0	20	0	95.7	80 - 120	20.34	6.08	20	
Bromochloromethane	19.08	1.0	20	0	95.4	78 - 123	19.3	1.14	20	
Bromodichloromethane	18.85	1.0	20	0	94.3	79 - 125	19.65	4.17	20	
Bromoform	18.03	1.0	20	0	90.2	66 - 130	19.12	5.85	20	
Bromomethane	15.8	1.0	20	0	79.0	53 - 141	19.44	20.7	20	R

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240416** Units: **ug/L** Analysis Date: **16-Apr-2024 16:46**
Client ID: Run ID: **VOA11_464219** SeqNo: **7951752** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	37.45	2.0	40	0	93.6	64 - 133	39.92	6.39	20	
Carbon tetrachloride	17.92	1.0	20	0	89.6	72 - 136	19.04	6.05	20	
Chlorobenzene	17.94	1.0	20	0	89.7	82 - 118	18.94	5.46	20	
Chloroethane	18.84	1.0	20	0	94.2	60 - 138	20.44	8.18	20	
Chloroform	18.77	1.0	20	0	93.8	79 - 124	19.39	3.26	20	
Chloromethane	17.79	1.0	20	0	88.9	50 - 139	17.03	4.34	20	
cis-1,2-Dichloroethene	20.02	1.0	20	0	100	78 - 123	21	4.75	20	
cis-1,3-Dichloropropene	17.44	1.0	20	0	87.2	75 - 124	18.99	8.54	20	
Dibromochloromethane	17.5	1.0	20	0	87.5	74 - 126	18.55	5.81	20	
Dibromomethane	19.49	1.0	20	0	97.5	79 - 123	20.16	3.34	20	
Dichlorodifluoromethane	18.1	1.0	20	0	90.5	32 - 152	18.86	4.14	20	
Ethylbenzene	19.87	1.0	20	0	99.4	79 - 121	21.35	7.2	20	
Hexachlorobutadiene	19.52	1.0	20	0	97.6	66 - 134	18.8	3.75	20	
Isopropylbenzene	19.32	1.0	20	0	96.6	72 - 131	19.47	0.753	20	
m,p-Xylene	35.58	2.0	40	0	89.0	80 - 121	38.3	7.34	20	
Methylene chloride	20.02	2.0	20	0	100	74 - 124	18.51	7.81	20	
Naphthalene	21.12	1.0	20	0	106	61 - 128	22.4	5.9	20	
n-Butylbenzene	19.61	1.0	20	0	98.1	75 - 128	19.01	3.12	20	
n-Propylbenzene	18.65	1.0	20	0	93.2	76 - 126	19.86	6.3	20	
o-Xylene	20.18	1.0	20	0	101	78 - 122	19.23	4.83	20	
sec-Butylbenzene	18.79	1.0	20	0	93.9	77 - 126	20	6.25	20	
Styrene	20.03	1.0	20	0	100	78 - 123	19.18	4.37	20	
tert-Butylbenzene	18.49	1.0	20	0	92.4	78 - 124	18.93	2.37	20	
Tetrachloroethene	16.47	1.0	20	0	82.4	74 - 129	19.79	18.3	20	
Toluene	17.62	1.0	20	0	88.1	80 - 121	21.14	18.1	20	
trans-1,2-Dichloroethene	19.88	1.0	20	0	99.4	75 - 124	19.81	0.38	20	
trans-1,3-Dichloropropene	17.82	1.0	20	0	89.1	73 - 127	19.27	7.83	20	
Trichloroethene	18.38	1.0	20	0	91.9	79 - 123	18.55	0.964	20	
Trichlorofluoromethane	18.43	1.0	20	0	92.2	65 - 141	19.85	7.41	20	
Vinyl chloride	18.51	1.0	20	0	92.5	58 - 137	19.26	3.95	20	
Surr: 1,2-Dichloroethane-d4	*44.53*	*35*	*50*	*0*	*89.1*	*81 - 118*	*43.24*	*2.94*	*20*	
Surr: 4-Bromofluorobenzene	*49.38*	*35*	*50*	*0*	*98.8*	*85 - 114*	*46.3*	*6.44*	*20*	
Surr: Dibromofluoromethane	*45.96*	*35*	*50*	*0*	*91.9*	*80 - 119*	*46.24*	*0.606*	*20*	
Surr: Toluene-d8	*46.04*	*35*	*50*	*0*	*92.1*	*89 - 112*	*51.48*	*11.2*	*20*	

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24040905-04MS** Units: **ug/L** Analysis Date: **16-Apr-2024 22:39**
Client ID: Run ID: **VOA11_464219** SeqNo: **7952321** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	19.91	1.0	20	0	99.5	78 - 124			
1,1,1-Trichloroethane	22.66	1.0	20	0	113	74 - 131			
1,1,2,2-Tetrachloroethane	19.52	1.0	20	0	97.6	71 - 121			
1,1,2-Trichloroethane	21.9	1.0	20	0	110	80 - 119			
1,1-Dichloroethane	21.22	1.0	20	0	106	77 - 125			
1,1-Dichloroethene	22.46	1.0	20	0	112	71 - 131			
1,1-Dichloropropene	22.96	1.0	20	0	115	78 - 125			
1,2,3-Trichlorobenzene	22.46	1.0	20	0	112	69 - 129			
1,2,3-Trichloropropane	18.47	1.0	20	0	92.4	73 - 122			
1,2,4-Trichlorobenzene	23.77	1.0	20	0	119	69 - 130			
1,2,4-Trimethylbenzene	20.68	1.0	20	0	103	76 - 124			
1,2-Dibromo-3-chloropropane	17.73	1.0	20	0	88.6	62 - 128			
1,2-Dibromoethane	20	1.0	20	0	100.0	77 - 121			
1,2-Dichlorobenzene	21.12	1.0	20	0	106	80 - 119			
1,2-Dichloroethane	20.51	1.0	20	0	103	73 - 128			
1,2-Dichloropropane	22.58	1.0	20	0	113	78 - 122			
1,3,5-Trimethylbenzene	20.34	1.0	20	0	102	75 - 124			
1,3-Dichlorobenzene	21.5	1.0	20	0.4087	105	80 - 119			
1,3-Dichloropropane	21.94	1.0	20	0	110	80 - 119			
1,4-Dichlorobenzene	19.72	1.0	20	0.7739	94.7	79 - 118			
2,2-Dichloropropane	18.31	1.0	20	0	91.5	60 - 139			
2-Butanone	37.64	2.0	40	0	94.1	56 - 143			
2-Chlorotoluene	20.92	1.0	20	0	105	79 - 122			
2-Hexanone	40.75	2.0	40	0	102	57 - 139			
4-Chlorotoluene	20.32	1.0	20	0	102	78 - 122			
4-Isopropyltoluene	20.7	1.0	20	0	103	77 - 127			
4-Methyl-2-pentanone	46.18	2.0	40	0	115	67 - 130			
Acetone	41.71	2.0	40	0	104	39 - 160			
Benzene	20.69	1.0	20	0	103	79 - 120			
Bromobenzene	19.88	1.0	20	0	99.4	80 - 120			
Bromochloromethane	20.01	1.0	20	0	100	78 - 123			
Bromodichloromethane	20.99	1.0	20	0	105	79 - 125			
Bromoform	16.55	1.0	20	0	82.7	66 - 130			
Bromomethane	19.5	1.0	20	0	97.5	53 - 141			

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24040905-04MS** Units: **ug/L** Analysis Date: **16-Apr-2024 22:39**
Client ID: Run ID: **VOA11_464219** SeqNo: **7952321** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	41.11	2.0	40	0	103	64 - 133			
Carbon tetrachloride	21.06	1.0	20	0	105	72 - 136			
Chlorobenzene	34.29	1.0	20	15.54	93.8	82 - 118			
Chloroethane	24.48	1.0	20	0	122	60 - 138			
Chloroform	21.89	1.0	20	0	109	79 - 124			
Chloromethane	18.4	1.0	20	0	92.0	50 - 139			
cis-1,2-Dichloroethene	21.83	1.0	20	0	109	78 - 123			
cis-1,3-Dichloropropene	18.19	1.0	20	0	90.9	75 - 124			
Dibromochloromethane	18.02	1.0	20	0	90.1	74 - 126			
Dibromomethane	21.56	1.0	20	0	108	79 - 123			
Dichlorodifluoromethane	22.23	1.0	20	0	111	32 - 152			
Ethylbenzene	22.17	1.0	20	0	111	79 - 121			
Hexachlorobutadiene	20	1.0	20	0	100	66 - 134			
Isopropylbenzene	26.69	1.0	20	5.873	104	72 - 131			
m,p-Xylene	40.38	2.0	40	0	101	80 - 121			
Methylene chloride	18.8	2.0	20	0	94.0	74 - 124			
Naphthalene	22.29	1.0	20	0	111	61 - 128			
n-Butylbenzene	21.34	1.0	20	0	107	75 - 128			
n-Propylbenzene	21.46	1.0	20	1.639	99.1	76 - 126			
o-Xylene	21.61	1.0	20	0	108	78 - 122			
sec-Butylbenzene	33.9	1.0	20	13.93	99.9	77 - 126			
Styrene	20.09	1.0	20	0	100	78 - 123			
tert-Butylbenzene	29.85	1.0	20	10.4	97.2	78 - 124			
Tetrachloroethene	22.27	1.0	20	0	111	74 - 129			
Toluene	22.97	1.0	20	0	115	80 - 121			
trans-1,2-Dichloroethene	20.98	1.0	20	0	105	75 - 124			
trans-1,3-Dichloropropene	18.53	1.0	20	0	92.6	73 - 127			
Trichloroethene	20.02	1.0	20	0	100	79 - 123			
Trichlorofluoromethane	21.73	1.0	20	0	109	65 - 141			
Vinyl chloride	21.82	1.0	20	0	109	58 - 137			
Surr: 1,2-Dichloroethane-d4	*44.95*	*35*	*50*	*0*	*89.9*	*81 - 118*			
Surr: 4-Bromofluorobenzene	*51.69*	*35*	*50*	*0*	*103*	*85 - 114*			
Surr: Dibromofluoromethane	*46.89*	*35*	*50*	*0*	*93.8*	*80 - 119*			
Surr: Toluene-d8	*55.48*	*35*	*50*	*0*	*111*	*89 - 112*			

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24040905-04MSD** Units: **ug/L** Analysis Date: **16-Apr-2024 23:02**
Client ID: Run ID: **VOA11_464219** SeqNo: **7952322** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.84	1.0	20	0	99.2	78 - 124	19.91	0.328	20	
1,1,1-Trichloroethane	20.96	1.0	20	0	105	74 - 131	22.66	7.78	20	
1,1,2,2-Tetrachloroethane	18.99	1.0	20	0	94.9	71 - 121	19.52	2.74	20	
1,1,2-Trichloroethane	21.64	1.0	20	0	108	80 - 119	21.9	1.21	20	
1,1-Dichloroethane	19.21	1.0	20	0	96.0	77 - 125	21.22	9.97	20	
1,1-Dichloroethene	18.54	1.0	20	0	92.7	71 - 131	22.46	19.2	20	
1,1-Dichloropropene	22.34	1.0	20	0	112	78 - 125	22.96	2.74	20	
1,2,3-Trichlorobenzene	21.15	1.0	20	0	106	69 - 129	22.46	6.01	20	
1,2,3-Trichloropropane	17.73	1.0	20	0	88.7	73 - 122	18.47	4.09	20	
1,2,4-Trichlorobenzene	23.72	1.0	20	0	119	69 - 130	23.77	0.202	20	
1,2,4-Trimethylbenzene	20.81	1.0	20	0	104	76 - 124	20.68	0.652	20	
1,2-Dibromo-3-chloropropane	19.13	1.0	20	0	95.7	62 - 128	17.73	7.63	20	
1,2-Dibromoethane	19.09	1.0	20	0	95.4	77 - 121	20	4.67	20	
1,2-Dichlorobenzene	21.19	1.0	20	0	106	80 - 119	21.12	0.341	20	
1,2-Dichloroethane	20.55	1.0	20	0	103	73 - 128	20.51	0.186	20	
1,2-Dichloropropane	20.15	1.0	20	0	101	78 - 122	22.58	11.4	20	
1,3,5-Trimethylbenzene	19.05	1.0	20	0	95.3	75 - 124	20.34	6.54	20	
1,3-Dichlorobenzene	21.76	1.0	20	0.4087	107	80 - 119	21.5	1.18	20	
1,3-Dichloropropane	20.58	1.0	20	0	103	80 - 119	21.94	6.41	20	
1,4-Dichlorobenzene	19.92	1.0	20	0.7739	95.7	79 - 118	19.72	1.01	20	
2,2-Dichloropropane	17.96	1.0	20	0	89.8	60 - 139	18.31	1.93	20	
2-Butanone	36.37	2.0	40	0	90.9	56 - 143	37.64	3.44	20	
2-Chlorotoluene	19.09	1.0	20	0	95.5	79 - 122	20.92	9.15	20	
2-Hexanone	45.79	2.0	40	0	114	57 - 139	40.75	11.6	20	
4-Chlorotoluene	18.98	1.0	20	0	94.9	78 - 122	20.32	6.82	20	
4-Isopropyltoluene	20.82	1.0	20	0	104	77 - 127	20.7	0.592	20	
4-Methyl-2-pentanone	52.06	2.0	40	0	130	67 - 130	46.18	12	20	S
Acetone	40.71	2.0	40	0	102	39 - 160	41.71	2.45	20	
Benzene	21.53	1.0	20	0	108	79 - 120	20.69	4	20	
Bromobenzene	19.01	1.0	20	0	95.0	80 - 120	19.88	4.51	20	
Bromochloromethane	19.43	1.0	20	0	97.2	78 - 123	20.01	2.92	20	
Bromodichloromethane	19.45	1.0	20	0	97.2	79 - 125	20.99	7.65	20	
Bromoform	17.85	1.0	20	0	89.2	66 - 130	16.55	7.58	20	
Bromomethane	15.84	1.0	20	0	79.2	53 - 141	19.5	20.7	20	R

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R464219 (0) **Instrument: VOA11** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24040905-04MSD** Units: **ug/L** Analysis Date: **16-Apr-2024 23:02**
Client ID: Run ID: **VOA11_464219** SeqNo: **7952322** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	34.12	2.0	40	0	85.3	64 - 133	41.11	18.6	20	
Carbon tetrachloride	20.71	1.0	20	0	104	72 - 136	21.06	1.67	20	
Chlorobenzene	33.73	1.0	20	15.54	91.0	82 - 118	34.29	1.64	20	
Chloroethane	20	1.0	20	0	100.0	60 - 138	24.48	20.1	20	R
Chloroform	19.6	1.0	20	0	98.0	79 - 124	21.89	11	20	
Chloromethane	16.27	1.0	20	0	81.3	50 - 139	18.4	12.3	20	
cis-1,2-Dichloroethene	21.6	1.0	20	0	108	78 - 123	21.83	1.05	20	
cis-1,3-Dichloropropene	18.39	1.0	20	0	92.0	75 - 124	18.19	1.11	20	
Dibromochloromethane	17	1.0	20	0	85.0	74 - 126	18.02	5.85	20	
Dibromomethane	20.31	1.0	20	0	102	79 - 123	21.56	5.94	20	
Dichlorodifluoromethane	19.18	1.0	20	0	95.9	32 - 152	22.23	14.7	20	
Ethylbenzene	22.03	1.0	20	0	110	79 - 121	22.17	0.639	20	
Hexachlorobutadiene	19.43	1.0	20	0	97.2	66 - 134	20	2.89	20	
Isopropylbenzene	27.04	1.0	20	5.873	106	72 - 131	26.69	1.32	20	
m,p-Xylene	40.16	2.0	40	0	100	80 - 121	40.38	0.561	20	
Methylene chloride	16.33	2.0	20	0	81.6	74 - 124	18.8	14.1	20	
Naphthalene	24.27	1.0	20	0	121	61 - 128	22.29	8.5	20	
n-Butylbenzene	21.13	1.0	20	0	106	75 - 128	21.34	0.975	20	
n-Propylbenzene	19.51	1.0	20	1.639	89.3	76 - 126	21.46	9.52	20	
o-Xylene	21.32	1.0	20	0	107	78 - 122	21.61	1.39	20	
sec-Butylbenzene	33.61	1.0	20	13.93	98.4	77 - 126	33.9	0.881	20	
Styrene	20.01	1.0	20	0	100	78 - 123	20.09	0.381	20	
tert-Butylbenzene	28.48	1.0	20	10.4	90.4	78 - 124	29.85	4.69	20	
Tetrachloroethene	19.65	1.0	20	0	98.2	74 - 129	22.27	12.5	20	
Toluene	22.36	1.0	20	0	112	80 - 121	22.97	2.66	20	
trans-1,2-Dichloroethene	17.71	1.0	20	0	88.5	75 - 124	20.98	16.9	20	
trans-1,3-Dichloropropene	18.58	1.0	20	0	92.9	73 - 127	18.53	0.285	20	
Trichloroethene	21.43	1.0	20	0	107	79 - 123	20.02	6.77	20	
Trichlorofluoromethane	18.33	1.0	20	0	91.7	65 - 141	21.73	16.9	20	
Vinyl chloride	18.5	1.0	20	0	92.5	58 - 137	21.82	16.5	20	
Surr: 1,2-Dichloroethane-d4	*42.71*	*35*	*50*	*0*	*85.4*	*81 - 118*	*44.95*	*5.11*	*20*	
Surr: 4-Bromofluorobenzene	*50.53*	*35*	*50*	*0*	*101*	*85 - 114*	*51.69*	*2.27*	*20*	
Surr: Dibromofluoromethane	*45.91*	*35*	*50*	*0*	*91.8*	*80 - 119*	*46.89*	*2.11*	*20*	
Surr: Toluene-d8	*55.23*	*35*	*50*	*0*	*110*	*89 - 112*	*55.48*	*0.466*	*20*	

ALS Houston, US Date: 17-Apr-24

Client:	Bhate Environmental Associates, Inc.
Project:	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder:	HS24040371

QC BATCH REPORT

Batch ID:	**R464219 (0)**	**Instrument:**	**VOA11**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS24040371-01 HS24040371-02

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24040371

QC BATCH REPORT

Batch ID: R463286 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **06-Apr-2024 20:13**
Client ID: Run ID: **ICS-Integrion_463286** SeqNo: **7932422** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **06-Apr-2024 20:31**
Client ID: Run ID: **ICS-Integrion_463286** SeqNo: **7932423** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.42	0.500	20	0	97.1	80 - 120				
Sulfate	20.56	0.500	20	0	103	80 - 120				

MS Sample ID: **HS24040436-01MS** Units: **mg/L** Analysis Date: **06-Apr-2024 20:43**
Client ID: Run ID: **ICS-Integrion_463286** SeqNo: **7932425** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	45.87	0.500	10	37.04	88.3	80 - 120				
Sulfate	62	0.500	10	58.16	38.4	80 - 120				SO

MSD Sample ID: **HS24040436-01MSD** Units: **mg/L** Analysis Date: **06-Apr-2024 20:49**
Client ID: Run ID: **ICS-Integrion_463286** SeqNo: **7932426** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	46.37	0.500	10	37.04	93.3	80 - 120	45.87	1.1	20	
Sulfate	62.69	0.500	10	58.16	45.2	80 - 120	62	1.1	20	SO

The following samples were analyzed in this batch: HS24040371-01

ALS Houston, US Date: 17-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: **HS24040371**

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
California	2919; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00109	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 17-Apr-24

Sample Receipt Checklist

Work Order ID: HS24040371 **Date/Time Received:** 03-Apr-2024 10:10

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

Completed By: /S/ Belinda Gomez (eSignature) 05-Apr-2024 13:40 (Date/Time) **Reviewed by:** /S/ luis.aguilar (eSignature) 07-Apr-2024 20:44 (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):	2.0uc/1.9c	ir31	
Cooler(s)/Kit(s):	50801		
Date/Time sample(s) sent to storage:	4/5/24 1343		
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:

HS24040371

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210, Houston, Tx. 77099 ATTN: James Guin

Bhate Environmental Associates, Inc.
GROUNDWATER TREATMENT PLANT BI-WEEKL

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: VOC	Analyses: CHLORIDE, SULFATE	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_040224	Water	04/02/24 / 13:00		3	3		HCL	
LH18/24-SP650_040224	Water	04/02/24 / 13:00		1		1	NONE	
Trip Blank	Water	04/02/24		2	2		HCL	

Additional Remarks: **Standard TAT on all parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	04/02/24	13:30							SM 04/03/24	10:10	

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks

(Word) S:\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5

50801

CUSTODY SEAL

Date: 4/2/24 Time: 1330
Name: Scott Beesinger
Company: Shate

Seal Broken By:
Date: 04/03/24

50801 APR 03 2024

Must Deliver Next Business Day
Time and Tempature Sensitive!

50801

ORIGIN ID:SGRA (903) 930-8183
SCOTT BEESINER
SHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 21NOV23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3755
DIMS: 26x14x14 IN

TO SAMPLE RECEIVING
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP-58-JG

AMA:

FedEx Express

FedEx TRK# 0221 6862 6799 2849

WED - 03 APR AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

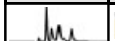
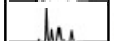
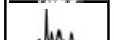
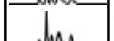
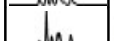
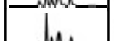
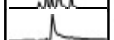
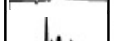
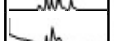
3923707 07Apr2024 0GGA 5810A/5088/0808

1

HS24040371 Wetchem 9056_W

ALS WO# HS24040371

Sequence: 040624
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
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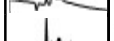
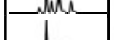
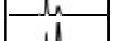
	LCS	300-W-SH	Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040064-01	300-W-SH	Unknown	RA2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040064-02	300-W-SH	Unknown	RA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
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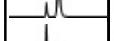
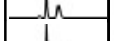
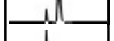
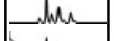
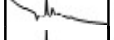
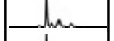
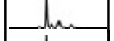
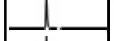
	HS24040064-06	300-W-SH	Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040064-07	300-W-SH	Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040413-01DF20	300-W-SH	Unknown	RA1	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040064-03DF2	300-W-SH	Unknown	RA4	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040064-05DF5	300-W-SH	Unknown	RA6	5.00		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
	HS24040362-01DF10	300-W-SH	Unknown	RB1	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040362-01MSDF1(	300-W-SH	Unknown	RB2	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040362-01MSDDF	300-W-SH	Unknown	RB3	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040362-02DF10	300-W-SH	Unknown	RB4	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040362-03DF10	300-W-SH	Unknown	RB5	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-02	9056-W-SH	Unknown	RD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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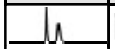
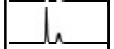
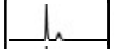
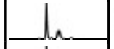
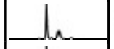
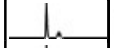
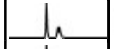
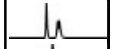
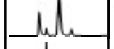
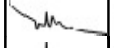
	HS24040396-06	9056-W-SH	Unknown	RD2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-03	9056-W-SH	Unknown	RD3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-05	9056-W-SH	Unknown	RD4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-09	9056-W-SH	Unknown	RD5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-04	9056-W-SH	Unknown	RD6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-04MS	9056-W-SH	Unknown	RD7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-04MSD	9056-W-SH	Unknown	RD8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-01	9056-W-SH	Unknown	RE1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-07	9056-W-SH	Unknown	RE2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040396-08	9056-W-SH	Unknown	RE3	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	9056-W-SH	Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040385-01DF10	9056-W-SH	Unknown	RC8	10.00		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
	HS24040362-04DF10	300-W-SH	Unknown	RB6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040200-01DF20	300-W-SH	Unknown	RB7	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-06	300-W-SH	Unknown	RB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-06DF20	300-W-SH	Unknown	RC1	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-07	300-W-SH	Unknown	RC2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-07DF20	300-W-SH	Unknown	RC3	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-08	300-W-SH	Unknown	RC4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-08DF10	300-W-SH	Unknown	RC5	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-08MSDF10	300-W-SH	Unknown	RC6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-08MSDDF	300-W-SH	Unknown	RC7	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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	CCB		Unknowr	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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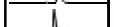
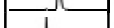
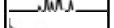
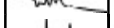
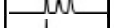
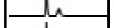
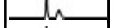
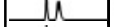
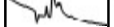
	HS24040361-09	300-W-SH	Unknowr	RE4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-09DF20	300-W-SH	Unknowr	RE5	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-10	300-W-SH	Unknowr	RE6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040361-10DF20	300-W-SH	Unknowr	RE7	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040277-12	300-W-SH	Unknowr	RE8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040277-12DF20	300-W-SH	Unknowr	GA1	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040379-01DF20	300-W-SH	Unknowr	GA2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040379-01DF400	300-W-SH	Unknowr	GA3	400.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknowr	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-01	9056-W-SH	Unknowr	GA4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-02	9056-W-SH	Unknowr	GA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-03	9056-W-SH	Unknowr	GA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-04	9056-W-SH	Unknowr	GA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-05	9056-W-SH	Unknowr	GA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-06	9056-W-SH	Unknowr	GB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-07	9056-W-SH	Unknowr	GB2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-08	9056-W-SH	Unknowr	GB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-09	9056-W-SH	Unknowr	GB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040384-10	9056-W-SH	Unknowr	GB5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknowr	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	300-W-SH-1	Unknowr	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS	300-W-SH-1	Unknowr	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040427-01	300-W-SH-1	Unknowr	GB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040427-02	300-W-SH-1	Unknowr	GB7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040427-02DF5	300-W-SH-1	Unknowr	GB8	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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	HS24040427-02MSDF5	300-W-SH-1	Unknowr	GC1	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS24040427-02MSDDF5	300-W-SH-1	Unknowr	GC2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040427-03	300-W-SH-1	Unknowr	GC3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040427-03DF5	300-W-SH-1	Unknowr	GC4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040432-01	300-W-SH-1	Unknowr	GC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknowr	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040432-01DF5	300-W-SH-1	Unknowr	GC6	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-01	300-W-SH-1	Unknowr	GC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-02	300-W-SH-1	Unknowr	GC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-03	300-W-SH-1	Unknowr	GD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-04	300-W-SH-1	Unknowr	GD2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-05	300-W-SH-1	Unknowr	GD3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-06	300-W-SH-1	Unknowr	GD4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-07	300-W-SH-1	Unknowr	GD5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-08	300-W-SH-1	Unknowr	GD6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24031779-09	300-W-SH-1	Unknowr	GD7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknowr	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040432-01MS	300-W-SH-1	Unknowr	GD8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040432-01MSD	300-W-SH-1	Unknowr	GE1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH-1	Unknowr	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS	9056-W-SH-1	Unknowr	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040436-01	9056-W-SH-1	Unknowr	GE2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040436-01MS	9056-W-SH-1	Unknowr	GE3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040436-01MSD	9056-W-SH-1	Unknowr	GE4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040436-01DF5	9056-W-SH-1	Unknowr	GE5	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040371-01	9056-W-SH-1	Unknowr	GE6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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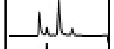
CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS24040371-01DF20	9056-W-SH-1	Unknown	GE7	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040284-01	9056-W-SH-1	Unknown	GE8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-01	9056-W-SH-1	Unknown	BA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-02	9056-W-SH-1	Unknown	BA2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-03	9056-W-SH-1	Unknown	BA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-03DF5	9056-W-SH-1	Unknown	BA4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-04	9056-W-SH-1	Unknown	BA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-04DF5	9056-W-SH-1	Unknown	BA6	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-05	9056-W-SH-1	Unknown	BA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-06	9056-W-SH-1	Unknown	BA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040305-07	9056-W-SH-1	Unknown	BB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040302-01	9056-W-SH-1	Unknown	BB2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040302-02	9056-W-SH-1	Unknown	BB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040302-03	9056-W-SH-1	Unknown	BB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040302-04	9056-W-SH-1	Unknown	BB5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040302-05	9056-W-SH-1	Unknown	BB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040302-06	9056-W-SH-1	Unknown	BB7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24040302-07	9056-W-SH-1	Unknown	BB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 040624
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	4/3/2024 8:55:18 AM -05:00
Anions Processing Method ISO		STD2	5.0	Finished	4/3/2024 9:01:14 AM -05:00
Anions Processing Method ISO		STD3	5.0	Finished	4/3/2024 9:07:10 AM -05:00
Anions Processing Method ISO		STD4	5.0	Finished	4/3/2024 9:13:07 AM -05:00
Anions Processing Method ISO		STD5	5.0	Finished	4/3/2024 9:19:03 AM -05:00
Anions Processing Method ISO		STD6	5.0	Finished	4/3/2024 9:24:59 AM -05:00
Anions Processing Method ISO		ICV	5.0	Finished	4/3/2024 9:36:52 AM -05:00
Anions Processing Method ISO		ICB	5.0	Finished	4/3/2024 10:21:47 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	4/6/2024 7:26:16 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 7:32:11 AM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	4/6/2024 7:44:03 AM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	4/6/2024 7:49:58 AM -05:00
Anions Processing Method ISO		HS24040064-01	5.0	Finished	4/6/2024 8:12:45 AM -05:00
Anions Processing Method ISO		HS24040064-02	5.0	Finished	4/6/2024 8:18:40 AM -05:00
Anions Processing Method ISO		HS24040064-04	5.0	Finished	4/6/2024 8:30:30 AM -05:00
Anions Processing Method ISO		HS24040064-06	5.0	Finished	4/6/2024 8:42:20 AM -05:00
Anions Processing Method ISO		HS24040064-07	5.0	Finished	4/6/2024 8:48:15 AM -05:00
Anions Processing Method ISO		HS24040413-01DF20	5.0	Finished	4/6/2024 8:54:10 AM -05:00
Anions Processing Method ISO		HS24040064-03DF2	5.0	Finished	4/6/2024 9:00:05 AM -05:00
Anions Processing Method ISO		HS24040064-05DF5	5.0	Finished	4/6/2024 9:06:00 AM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	4/6/2024 9:23:45 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 9:29:40 AM -05:00
Anions Processing Method ISO		HS24040362-01DF10	5.0	Finished	4/6/2024 9:41:30 AM -05:00
Anions Processing Method ISO		HS24040362-01MSDF10	5.0	Finished	4/6/2024 9:47:25 AM -05:00
Anions Processing Method ISO		HS24040362-01MSDDF	5.0	Finished	4/6/2024 9:53:20 AM -05:00
Anions Processing Method ISO		HS24040362-02DF10	5.0	Finished	4/6/2024 9:59:15 AM -05:00
Anions Processing Method ISO		HS24040362-03DF10	5.0	Finished	4/6/2024 10:05:10 AM -05:00
Anions Processing Method ISO		HS24040396-02	5.0	Finished	4/6/2024 10:11:05 AM -05:00

Sequence: 040624
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS24040396-06	5.0	Finished	4/6/2024 10:17:00 AM -05:00
Anions Processing Method ISO		HS24040396-03	5.0	Finished	4/6/2024 10:22:55 AM -05:00
Anions Processing Method ISO		HS24040396-05	5.0	Finished	4/6/2024 10:28:50 AM -05:00
Anions Processing Method ISO		HS24040396-09	5.0	Finished	4/6/2024 10:34:44 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	4/6/2024 10:46:34 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 10:52:29 AM -05:00
Anions Processing Method ISO		HS24040396-04	5.0	Finished	4/6/2024 11:04:19 AM -05:00
Anions Processing Method ISO		HS24040396-04MS	5.0	Finished	4/6/2024 11:10:14 AM -05:00
Anions Processing Method ISO		HS24040396-04MSD	5.0	Finished	4/6/2024 11:16:09 AM -05:00
Anions Processing Method ISO		HS24040396-01	5.0	Finished	4/6/2024 11:22:03 AM -05:00
Anions Processing Method ISO		HS24040396-07	5.0	Finished	4/6/2024 11:27:58 AM -05:00
Anions Processing Method ISO		HS24040396-08	5.0	Finished	4/6/2024 11:33:53 AM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	4/6/2024 11:51:37 AM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	4/6/2024 11:57:31 AM -05:00
Anions Processing Method ISO		HS24040385-01DF10	5.0	Finished	4/6/2024 12:03:26 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	4/6/2024 12:09:21 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 12:21:10 PM -05:00
Anions Processing Method ISO		HS24040362-04DF10	5.0	Finished	4/6/2024 12:33:00 PM -05:00
Anions Processing Method ISO		HS24040200-01DF20	5.0	Finished	4/6/2024 12:38:55 PM -05:00
Anions Processing Method ISO		HS24040361-06	5.0	Finished	4/6/2024 12:44:50 PM -05:00
Anions Processing Method ISO		HS24040361-06DF20	5.0	Finished	4/6/2024 12:50:45 PM -05:00
Anions Processing Method ISO		HS24040361-07	5.0	Finished	4/6/2024 12:56:40 PM -05:00
Anions Processing Method ISO		HS24040361-07DF20	5.0	Finished	4/6/2024 1:02:35 PM -05:00
Anions Processing Method ISO		HS24040361-08	5.0	Finished	4/6/2024 1:08:30 PM -05:00
Anions Processing Method ISO		HS24040361-08DF10	5.0	Finished	4/6/2024 1:14:25 PM -05:00
Anions Processing Method ISO		HS24040361-08MSDF10	5.0	Finished	4/6/2024 1:20:20 PM -05:00
Anions Processing Method ISO		HS24040361-08MSDDF	5.0	Finished	4/6/2024 1:26:15 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	4/6/2024 1:44:00 PM -05:00

Sequence: 040624
Last Update Operator: alshs.nouser

Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 1:55:50 PM -05:00
Processing Method	**CD**	**Name**	**me**	**Status**	**Inject Time**
Anions Processing Method ISO		HS24040361-09	5.0	Finished	4/6/2024 2:01:45 PM -05:00
Anions Processing Method ISO		HS24040361-09DF20	5.0	Finished	4/6/2024 2:07:40 PM -05:00
Anions Processing Method ISO		HS24040361-10	5.0	Finished	4/6/2024 2:13:35 PM -05:00
Anions Processing Method ISO		HS24040361-10DF20	5.0	Finished	4/6/2024 2:19:30 PM -05:00
Anions Processing Method ISO		HS24040277-12	5.0	Finished	4/6/2024 2:25:25 PM -05:00
Anions Processing Method ISO		HS24040277-12DF20	5.0	Finished	4/6/2024 2:31:20 PM -05:00
Anions Processing Method ISO		HS24040379-01DF20	5.0	Finished	4/6/2024 2:37:14 PM -05:00
Anions Processing Method ISO		HS24040379-01DF400	5.0	Finished	4/6/2024 2:43:09 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	4/6/2024 3:00:53 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 3:06:48 PM -05:00
Anions Processing Method ISO		HS24040384-01	5.0	Finished	4/6/2024 3:18:38 PM -05:00
Anions Processing Method ISO		HS24040384-02	5.0	Finished	4/6/2024 3:24:32 PM -05:00
Anions Processing Method ISO		HS24040384-03	5.0	Finished	4/6/2024 3:30:27 PM -05:00
Anions Processing Method ISO		HS24040384-04	5.0	Finished	4/6/2024 3:36:21 PM -05:00
Anions Processing Method ISO		HS24040384-05	5.0	Finished	4/6/2024 3:42:16 PM -05:00
Anions Processing Method ISO		HS24040384-06	5.0	Finished	4/6/2024 3:48:10 PM -05:00
Anions Processing Method ISO		HS24040384-07	5.0	Finished	4/6/2024 3:54:04 PM -05:00
Anions Processing Method ISO		HS24040384-08	5.0	Finished	4/6/2024 3:59:58 PM -05:00
Anions Processing Method ISO		HS24040384-09	5.0	Finished	4/6/2024 4:05:53 PM -05:00
Anions Processing Method ISO		HS24040384-10	5.0	Finished	4/6/2024 4:11:47 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	4/6/2024 4:23:36 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 4:35:25 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	4/6/2024 4:47:14 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	4/6/2024 4:59:03 PM -05:00
Anions Processing Method ISO		HS24040427-01	5.0	Finished	4/6/2024 5:04:58 PM -05:00
Anions Processing Method ISO		HS24040427-02	5.0	Finished	4/6/2024 5:10:52 PM -05:00
Anions Processing Method ISO		HS24040427-02DF5	5.0	Finished	4/6/2024 5:16:47 PM -05:00

Sequence: 040624
Last Update Operator: alshs.nouser

Anions Processing Method ISO		HS24040427-02MSDF5	5.0	Finished	4/6/2024 5:22:41 PM -05:00
Processing Method	**CD**	**Name**	**me**	**Status**	**Inject Time**
Anions Processing Method ISO		HS24040427-02MSDDF5	5.0	Finished	4/6/2024 5:28:36 PM -05:00
Anions Processing Method ISO		HS24040427-03	5.0	Finished	4/6/2024 5:34:30 PM -05:00
Anions Processing Method ISO		HS24040427-03DF5	5.0	Finished	4/6/2024 5:40:25 PM -05:00
Anions Processing Method ISO		HS24040432-01	5.0	Finished	4/6/2024 5:46:19 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	4/6/2024 6:04:03 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 6:09:57 PM -05:00
Anions Processing Method ISO		HS24040432-01DF5	5.0	Finished	4/6/2024 6:21:46 PM -05:00
Anions Processing Method ISO		HS24031779-01	5.0	Finished	4/6/2024 6:27:41 PM -05:00
Anions Processing Method ISO		HS24031779-02	5.0	Finished	4/6/2024 6:33:35 PM -05:00
Anions Processing Method ISO		HS24031779-03	5.0	Finished	4/6/2024 6:39:30 PM -05:00
Anions Processing Method ISO		HS24031779-04	5.0	Finished	4/6/2024 6:45:24 PM -05:00
Anions Processing Method ISO		HS24031779-05	5.0	Finished	4/6/2024 6:51:19 PM -05:00
Anions Processing Method ISO		HS24031779-06	5.0	Finished	4/6/2024 6:57:13 PM -05:00
Anions Processing Method ISO		HS24031779-07	5.0	Finished	4/6/2024 7:03:07 PM -05:00
Anions Processing Method ISO		HS24031779-08	5.0	Finished	4/6/2024 7:09:02 PM -05:00
Anions Processing Method ISO		HS24031779-09	5.0	Finished	4/6/2024 7:14:56 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	4/6/2024 7:32:39 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 7:38:33 PM -05:00
Anions Processing Method ISO		HS24040432-01MS	5.0	Finished	4/6/2024 7:50:22 PM -05:00
Anions Processing Method ISO		HS24040432-01MSD	5.0	Finished	4/6/2024 7:56:16 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	4/6/2024 8:13:59 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	4/6/2024 8:31:42 PM -05:00
Anions Processing Method ISO		HS24040436-01	5.0	Finished	4/6/2024 8:37:37 PM -05:00
Anions Processing Method ISO		HS24040436-01MS	5.0	Finished	4/6/2024 8:43:31 PM -05:00
Anions Processing Method ISO		HS24040436-01MSD	5.0	Finished	4/6/2024 8:49:26 PM -05:00
Anions Processing Method ISO		HS24040436-01DF5	5.0	Finished	4/6/2024 8:55:20 PM -05:00
Anions Processing Method ISO		HS24040371-01	5.0	Finished	4/6/2024 9:01:14 PM -05:00

Sequence: 040624
Last Update Operator: alshs.nouser

Anions Processing Method ISO		HS24040371-01DF20	5.0	Finished	4/6/2024 9:07:09 PM -05:00
Processing Method	**CD**	**Name**	**me**	**Status**	**Inject Time**
Anions Processing Method ISO		CCV1	5.0	Finished	4/6/2024 9:18:58 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 9:30:46 PM -05:00
Anions Processing Method ISO		HS24040284-01	5.0	Finished	4/6/2024 9:42:35 PM -05:00
Anions Processing Method ISO		HS24040305-01	5.0	Finished	4/6/2024 9:48:30 PM -05:00
Anions Processing Method ISO		HS24040305-02	5.0	Finished	4/6/2024 9:54:24 PM -05:00
Anions Processing Method ISO		HS24040305-03	5.0	Finished	4/6/2024 10:00:19 PM -05:00
Anions Processing Method ISO		HS24040305-03DF5	5.0	Finished	4/6/2024 10:06:13 PM -05:00
Anions Processing Method ISO		HS24040305-04	5.0	Finished	4/6/2024 10:12:08 PM -05:00
Anions Processing Method ISO		HS24040305-04DF5	5.0	Finished	4/6/2024 10:18:02 PM -05:00
Anions Processing Method ISO		HS24040305-05	5.0	Finished	4/6/2024 10:23:57 PM -05:00
Anions Processing Method ISO		HS24040305-06	5.0	Finished	4/6/2024 10:29:51 PM -05:00
Anions Processing Method ISO		HS24040305-07	5.0	Finished	4/6/2024 10:35:46 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	4/6/2024 10:53:30 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/6/2024 10:59:24 PM -05:00
Anions Processing Method ISO		HS24040302-01	5.0	Finished	4/6/2024 11:11:13 PM -05:00
Anions Processing Method ISO		HS24040302-02	5.0	Finished	4/6/2024 11:17:08 PM -05:00
Anions Processing Method ISO		HS24040302-03	5.0	Finished	4/6/2024 11:23:02 PM -05:00
Anions Processing Method ISO		HS24040302-04	5.0	Finished	4/6/2024 11:28:57 PM -05:00
Anions Processing Method ISO		HS24040302-05	5.0	Finished	4/6/2024 11:34:51 PM -05:00
Anions Processing Method ISO		HS24040302-06	5.0	Finished	4/6/2024 11:40:46 PM -05:00
Anions Processing Method ISO		HS24040302-07	5.0	Finished	4/6/2024 11:46:40 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	4/7/2024 12:04:24 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	4/7/2024 12:10:18 AM -05:00

Sequence: 030424
Injection #92: STD6

Calibration

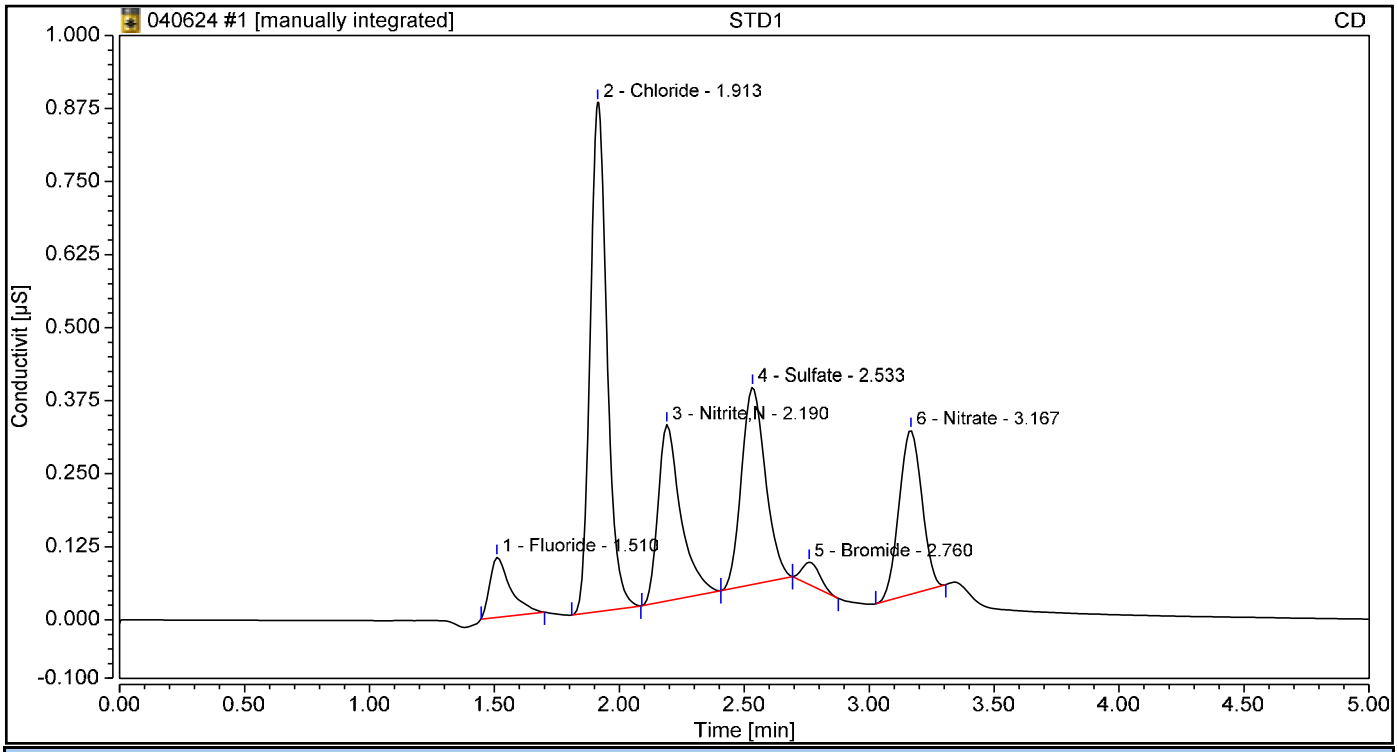
Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Lin, WithOffset, 1/A***	***Area***	***6***	***12.5278***	***0.99934***	***-0.0092***	***0.1944***	***0.0000***
2	Chloride	Lin, WithOffset, 1/A	Area	6	6.6227	0.99977	-0.0028	0.1427	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	8.3234	0.99966	0.0018	0.3105	-0.0032
4	Sulfate	Quad, WithOffset, 1/A	Area	6	7.1146	0.99983	-0.0111	0.0924	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	5.5114	0.99990	-0.0005	0.0406	0.0003
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.3444	0.99985	-0.0026	0.3209	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	7.1552	0.99981	-0.0009	0.0278	-0.0001
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	0	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**12.5278**	0.99990			
Minimum					5.3444	**0.99934**			

Chromatogram and Results

Injection Details

Injection Name:	**STD1**	*Run Time (min):*	**5.00**
Vial Number:	**RA1**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**1**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 08:55**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

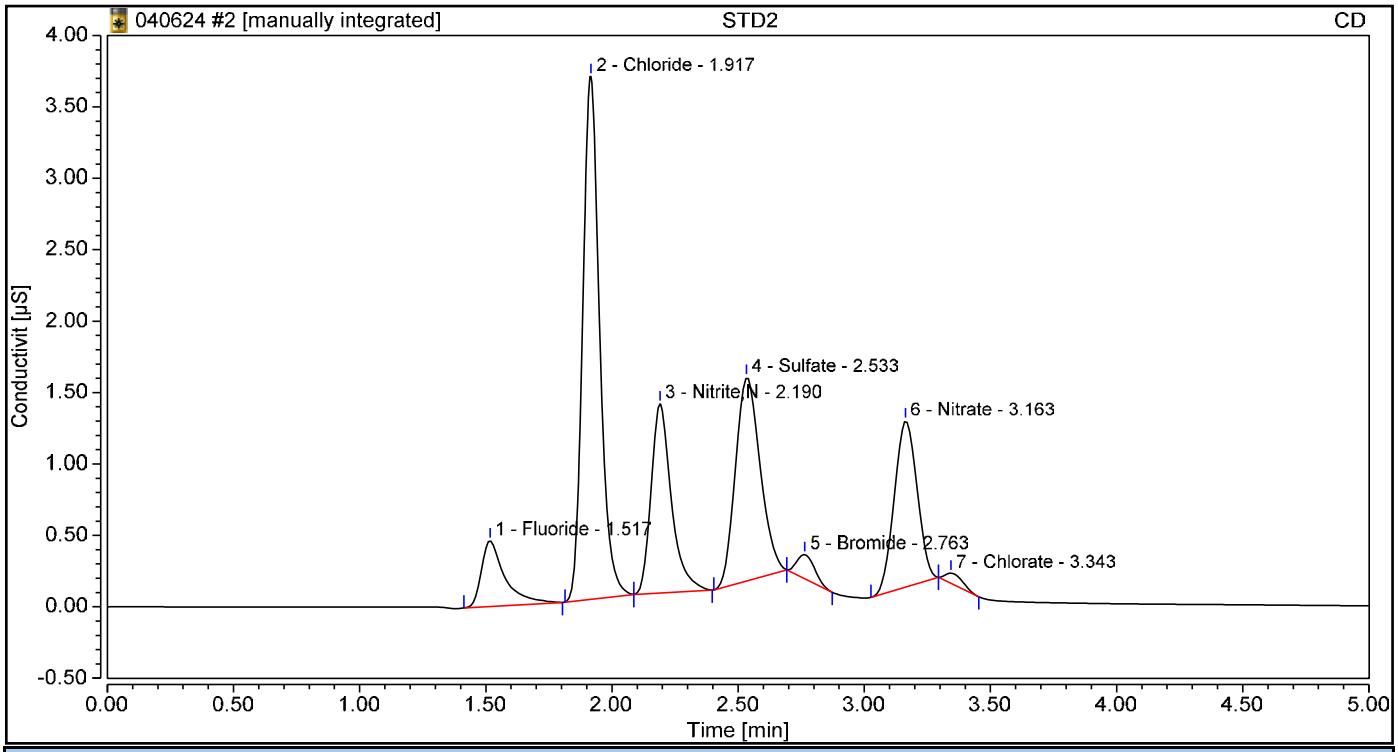
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.510	0.010	0.103	5.46	5.31	0.1255
2	Chloride	1.913	0.068	0.872	37.81	45.10	0.5104
3	Nitrite,N	2.190	0.032	0.302	17.64	15.61	0.1022
4	Sulfate	2.533	0.037	0.338	20.80	17.47	0.5258
5	Bromide	2.760	0.003	0.038	1.80	1.99	0.0977
6	Nitrate	3.167	0.030	0.281	16.49	14.52	0.1018
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.180**	**1.933**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD2**	*Run Time (min):*	**5.00**
Vial Number:	**RA2**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**2**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 09:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

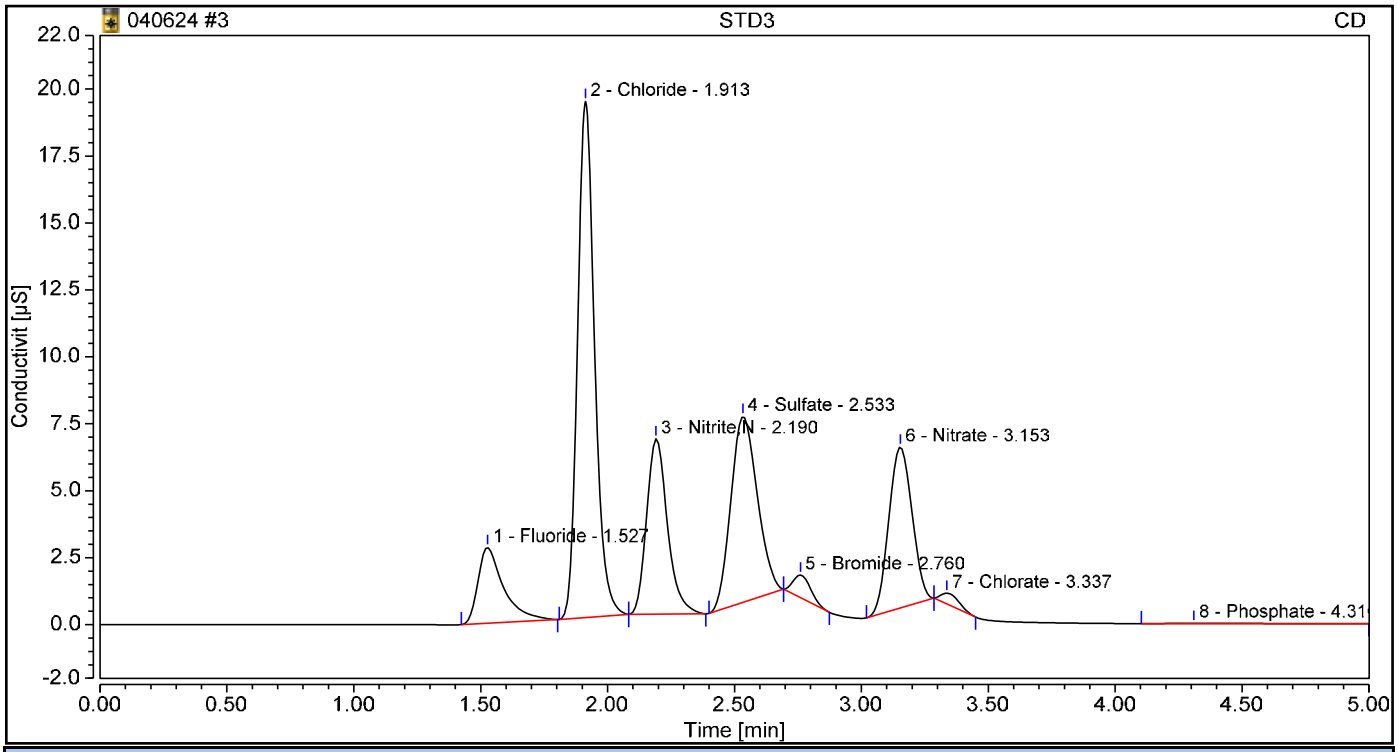
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.517	0.050	0.461	6.54	5.57	0.3309
2	Chloride	1.917	0.285	3.661	37.32	44.23	1.9321
3	Nitrite,N	2.190	0.124	1.324	16.20	16.00	0.3897
4	Sulfate	2.533	0.162	1.426	21.24	17.23	1.9522
5	Bromide	2.763	0.014	0.169	1.82	2.04	0.4090
6	Nitrate	3.163	0.122	1.164	16.06	14.07	0.3886
7	Chlorate	3.343	0.006	0.072	0.81	0.87	0.4212
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.762**	**8.277**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD3**	*Run Time (min):*	**5.00**
Vial Number:	**RA3**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**3**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 09:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

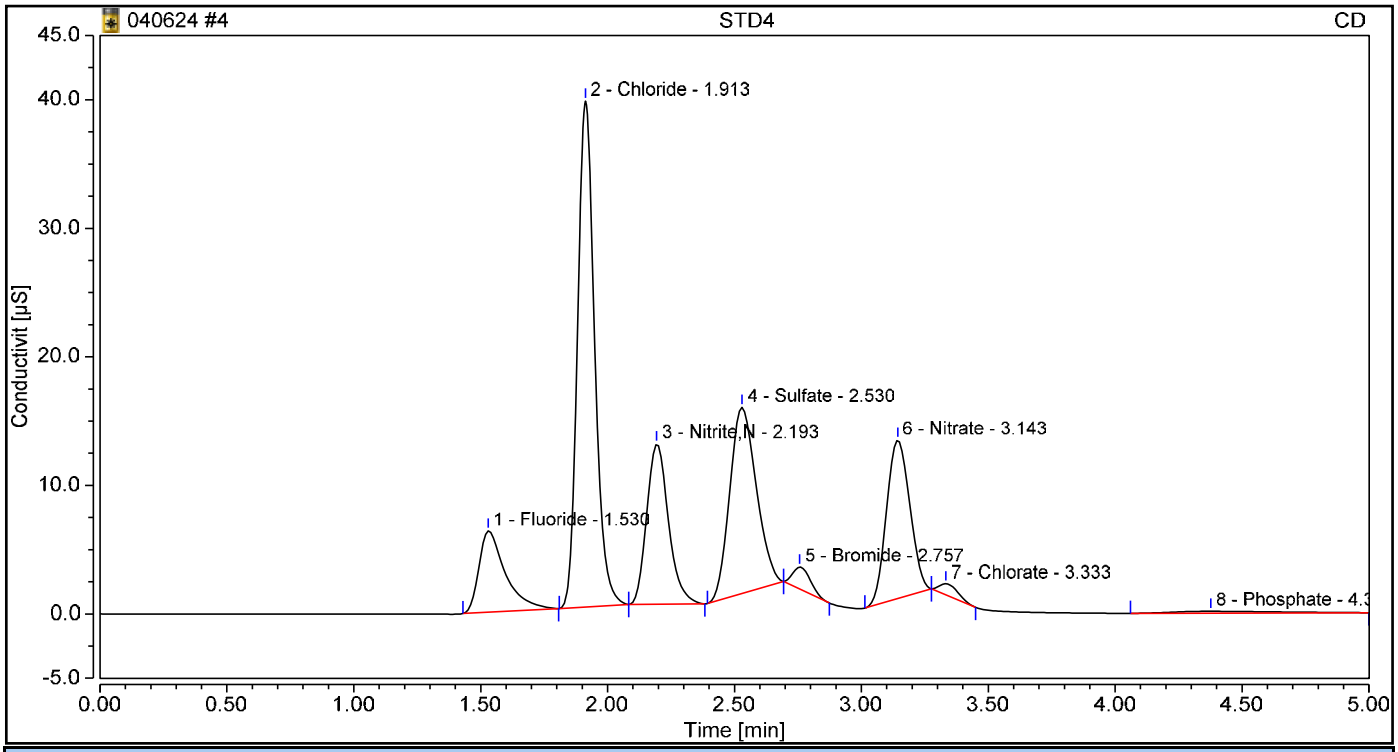
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.527	0.332	2.831	8.20	6.60	1.7778
2	Chloride	1.913	1.504	19.269	37.17	44.94	9.9432
3	Nitrite,N	2.190	0.625	6.554	15.44	15.29	1.9938
4	Sulfate	2.533	0.839	6.943	20.73	16.19	9.6367
5	Bromide	2.760	0.070	0.849	1.72	1.98	2.0082
6	Nitrate	3.153	0.637	6.015	15.73	14.03	1.9783
7	Chlorate	3.337	0.035	0.402	0.87	0.94	1.8534
8	Phosphate	4.310	0.005	0.011	0.13	0.03	2.0000
Total:			**4.046**	**42.874**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD4**	*Run Time (min):*	**5.00**
Vial Number:	**RA4**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**4**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 09:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

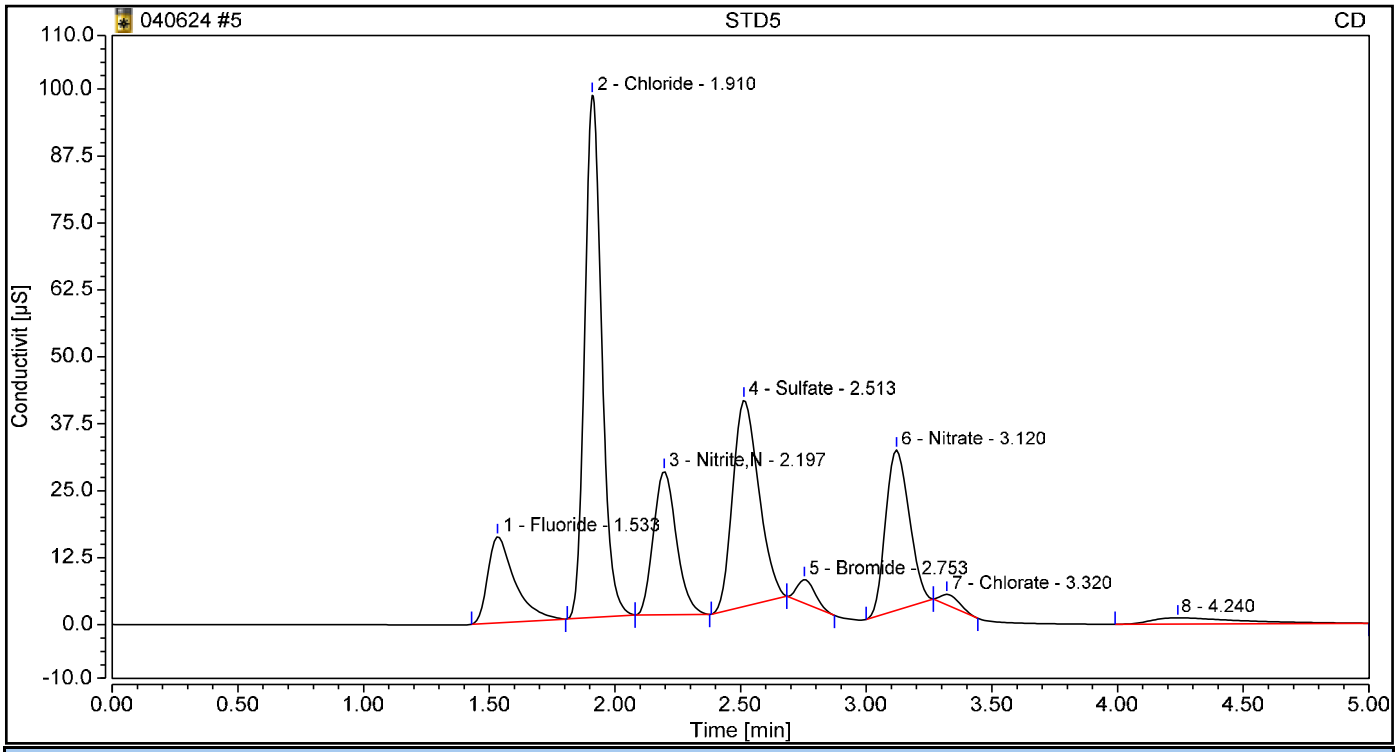
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	0.765	6.321	9.06	7.21	3.9993
2	Chloride	1.913	3.084	39.352	36.52	44.89	20.3219
3	Nitrite,N	2.193	1.239	12.480	14.68	14.24	4.0454
4	Sulfate	2.530	1.763	14.480	20.87	16.52	19.9326
5	Bromide	2.757	0.141	1.700	1.67	1.94	3.9866
6	Nitrate	3.143	1.311	12.324	15.52	14.06	4.0629
7	Chlorate	3.333	0.077	0.859	0.91	0.98	4.0038
8	Phosphate	4.377	0.067	0.141	0.79	0.16	4.0000
Total:			**8.445**	**87.657**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD5**	*Run Time (min):*	**5.00**
Vial Number:	**RA5**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**5**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 09:19**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

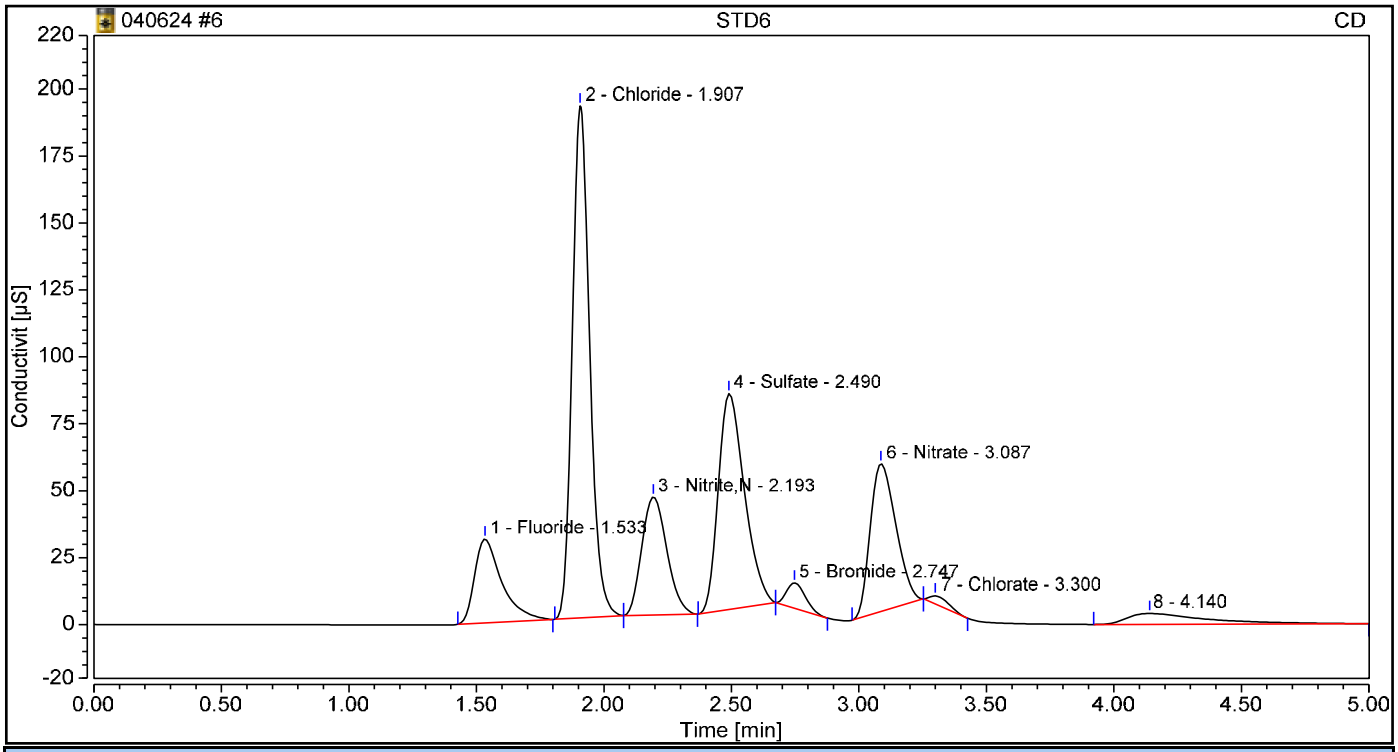
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.533	1.995	16.085	9.30	7.43	10.3144
2	Chloride	1.910	7.673	97.489	35.75	45.06	50.4728
3	Nitrite,N	2.197	2.842	26.767	13.24	12.37	9.9493
4	Sulfate	2.513	4.641	38.551	21.62	17.82	50.7445
5	Bromide	2.753	0.373	4.424	1.74	2.04	9.9956
6	Nitrate	3.120	3.281	29.913	15.29	13.83	10.1555
7	Chlorate	3.320	0.181	1.951	0.84	0.90	10.2906
8		4.240	0.477	1.162	2.22	0.54	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**21.462**	**216.341**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD6**	*Run Time (min):*	**5.00**
Vial Number:	**RA6**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**6**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 09:24**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

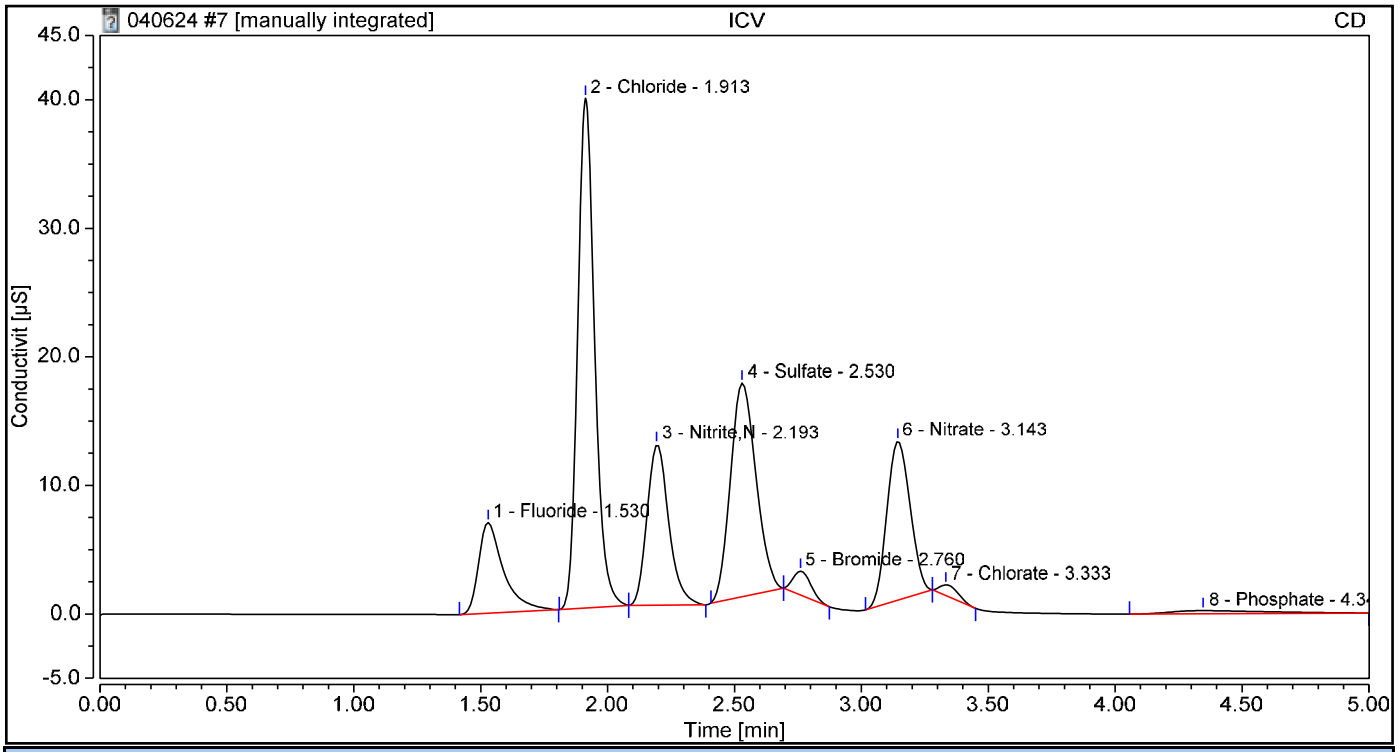
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.533	3.873	31.355	9.11	7.48	19.9521
2	Chloride	1.907	15.108	191.200	35.52	45.63	99.3195
3	Nitrite,N	2.193	5.009	44.117	11.78	10.53	20.0220
4	Sulfate	2.490	9.566	80.624	22.49	19.24	99.7024
5	Bromide	2.747	0.814	9.441	1.91	2.25	20.0032
6	Nitrate	3.087	6.404	55.208	15.06	13.17	19.8130
7	Chlorate	3.300	0.290	3.037	0.68	0.72	19.7813
8		4.140	1.469	4.060	3.45	0.97	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**42.534**	**419.042**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**5.00**
Vial Number:	**RA7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 09:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

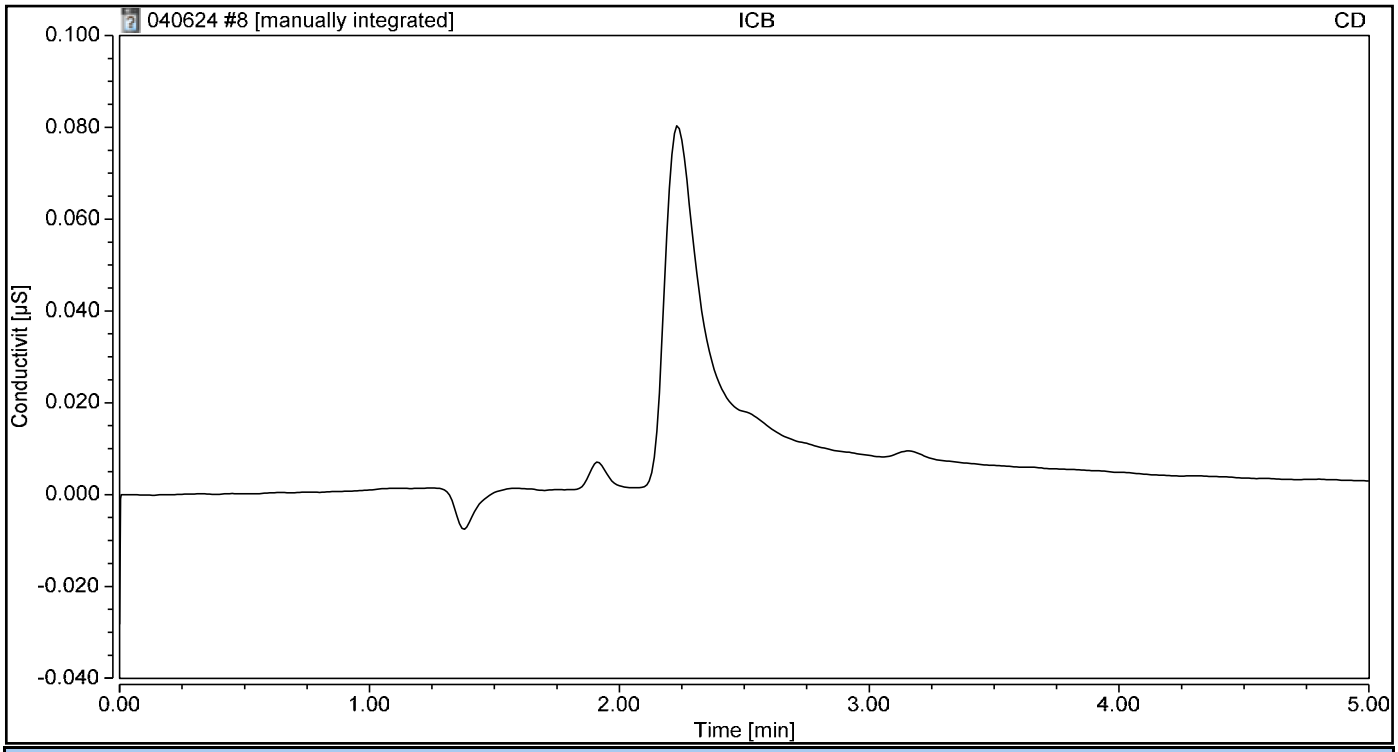
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	0.804	7.052	9.22	7.74	4.1985
2	Chloride	1.913	3.080	39.641	35.33	43.50	20.2963
3	Nitrite,N	2.193	1.241	12.493	14.23	13.71	4.0504
4	Sulfate	2.530	1.942	16.620	22.28	18.24	21.9080
5	Bromide	2.760	0.153	1.860	1.76	2.04	4.3302
6	Nitrate	3.143	1.314	12.371	15.08	13.58	4.0742
7	Chlorate	3.333	0.075	0.845	0.86	0.93	3.9407
8	Phosphate	4.347	0.109	0.244	1.25	0.27	5.3705
Total:			**8.718**	**91.127**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**5.00**
Vial Number:	**RA8**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**03/Apr/24 10:21**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

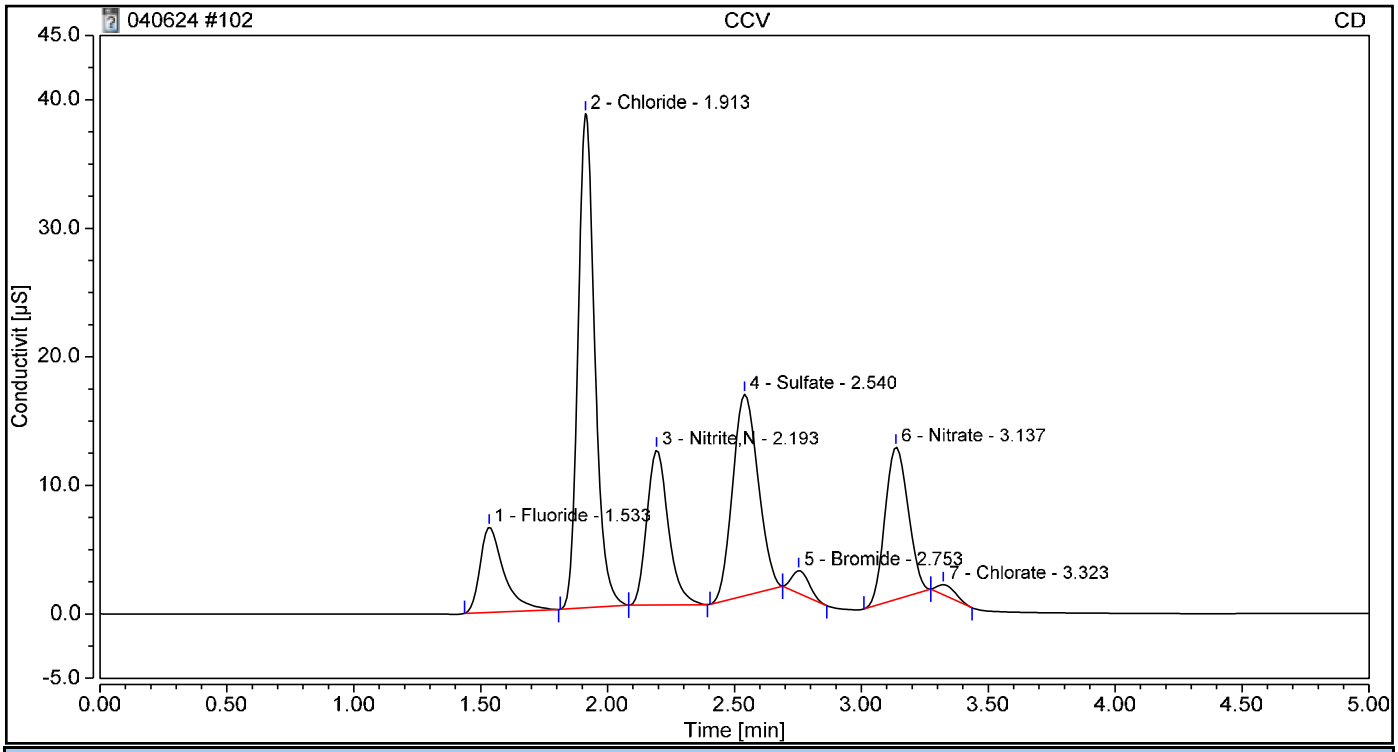
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**5.00**
Vial Number:	**R1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 19:32**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

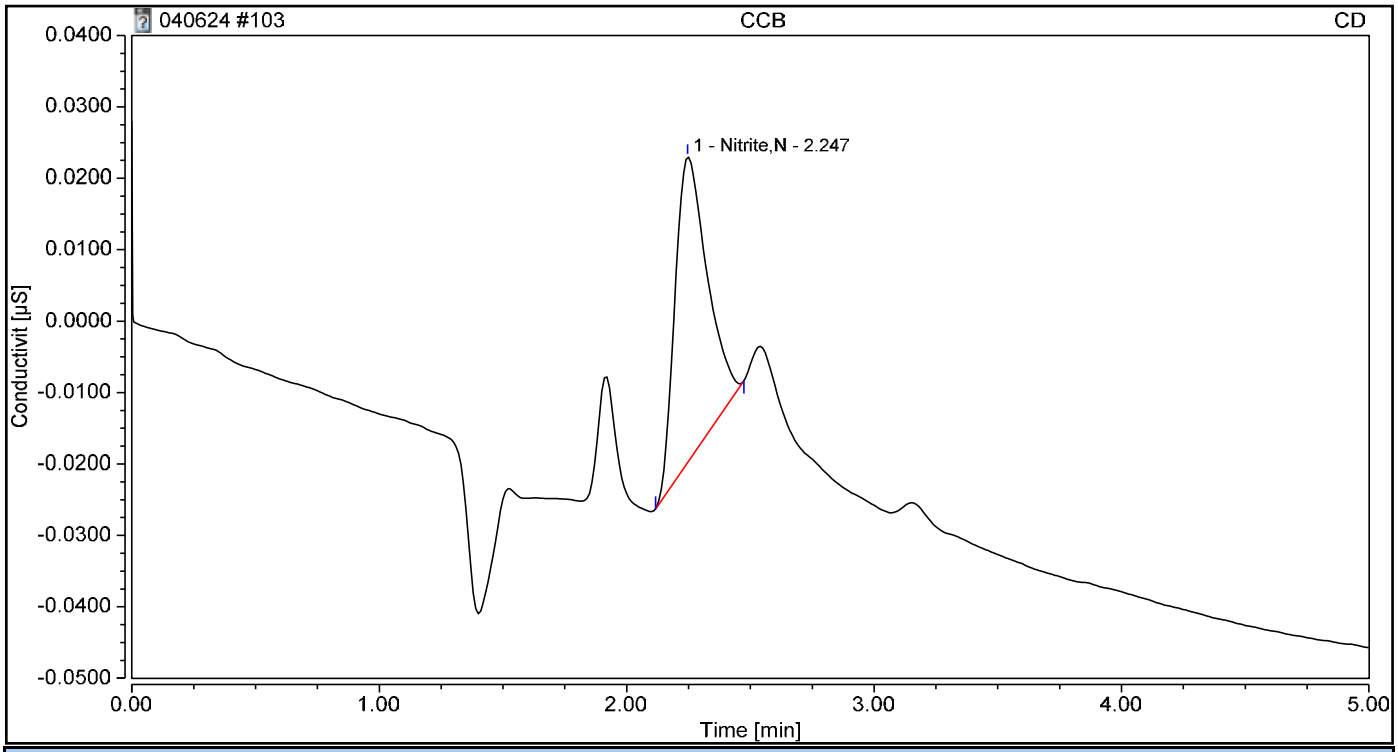
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.533	0.724	6.635	8.87	7.61	3.7913
2	Chloride	1.913	2.965	38.436	36.33	44.07	19.5392
3	Nitrite,N	2.193	1.184	12.056	14.51	13.82	3.8555
4	Sulfate	2.540	1.821	15.665	22.31	17.96	20.5762
5	Bromide	2.753	0.142	1.768	1.74	2.03	4.0294
6	Nitrate	3.137	1.256	11.862	15.39	13.60	3.8929
7	Chlorate	3.323	0.069	0.793	0.84	0.91	3.5916
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**8.160**	**87.214**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R4**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 19:38**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

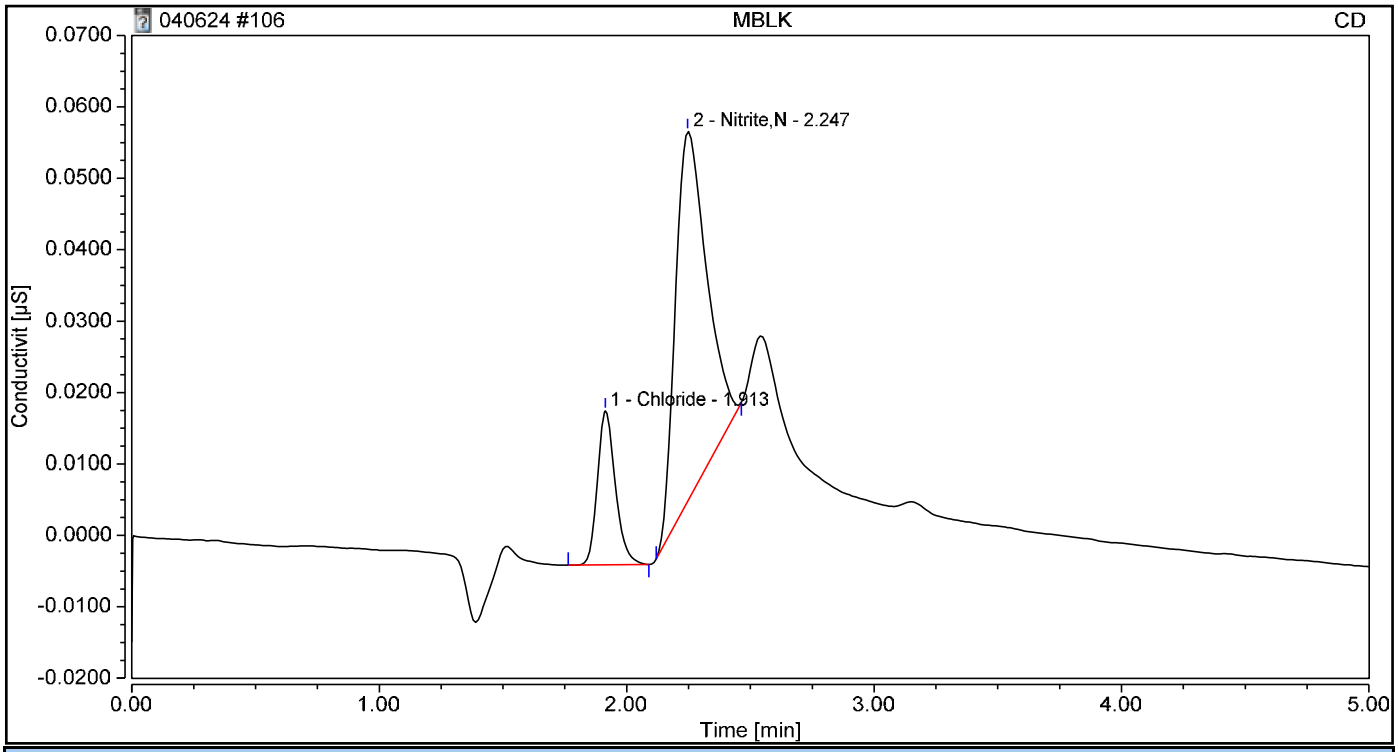
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.247	0.006	0.043	100.00	100.00	0.0231
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.006**	**0.043**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MBLK**	*Run Time (min):*	**5.00**
Vial Number:	**R5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 20:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

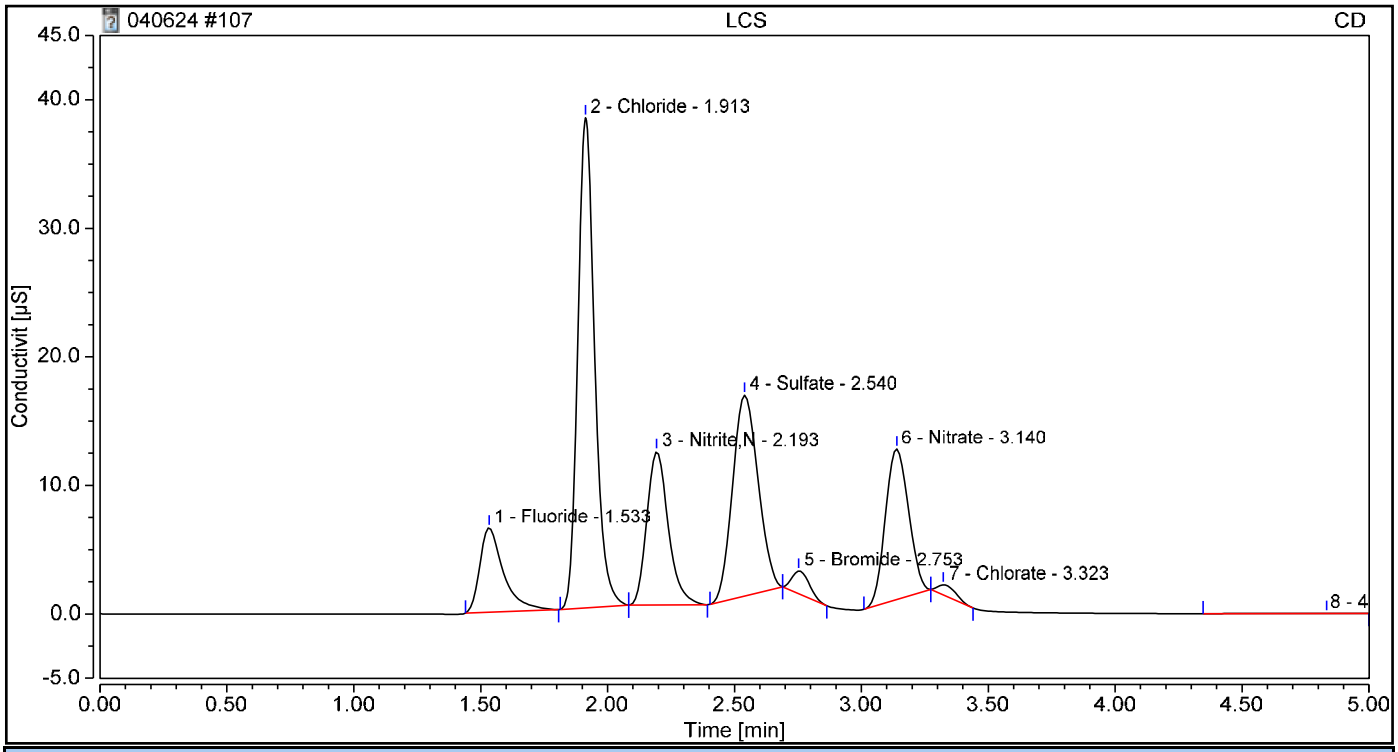
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.913	0.002	0.022	19.35	29.40	0.0749
2	Nitrite,N	2.247	0.008	0.052	80.65	70.60	0.0266
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.009**	**0.073**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**5.00**
Vial Number:	**R2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 20:31**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

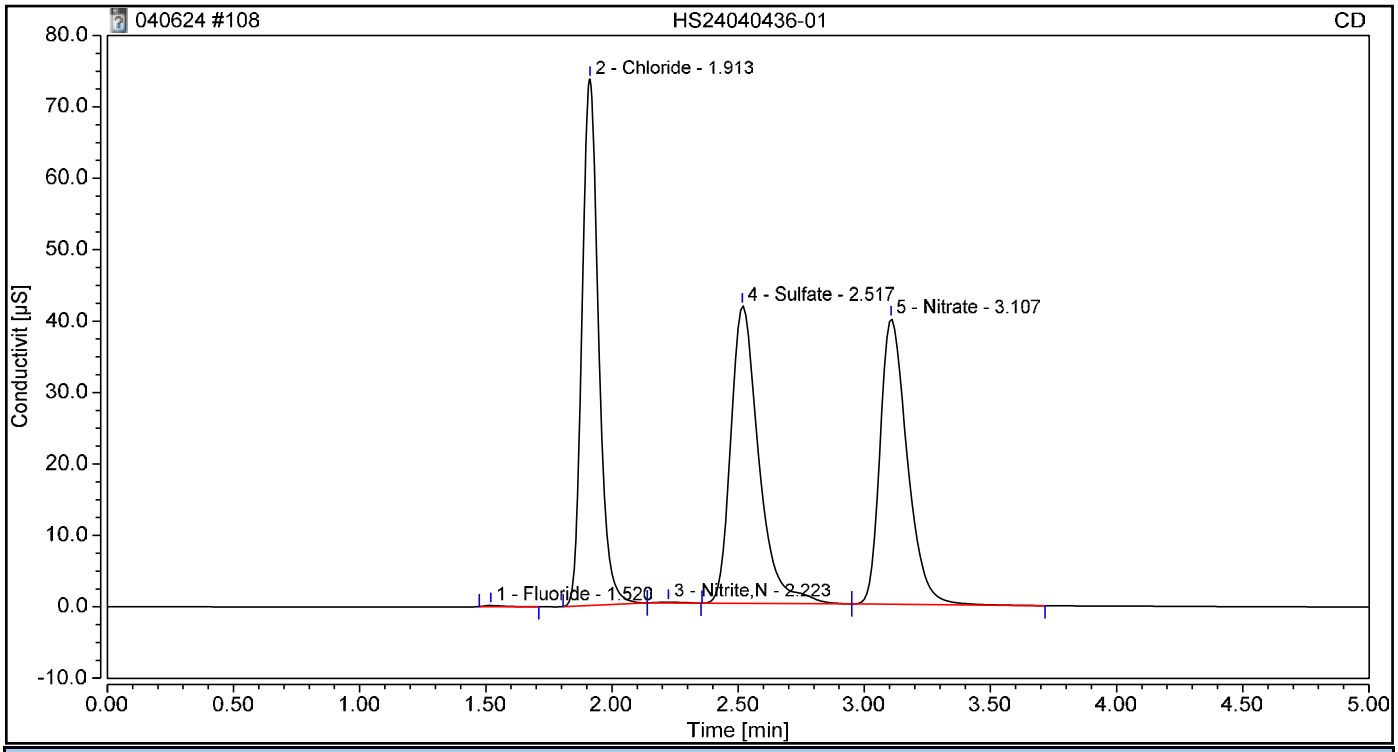
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.533	0.711	6.556	8.77	7.58	3.7233
2	Chloride	1.913	2.946	38.123	36.34	44.08	19.4187
3	Nitrite,N	2.193	1.173	11.936	14.47	13.80	3.8191
4	Sulfate	2.540	1.819	15.624	22.44	18.06	20.5563
5	Bromide	2.753	0.143	1.756	1.76	2.03	4.0358
6	Nitrate	3.140	1.242	11.705	15.32	13.53	3.8512
7	Chlorate	3.323	0.070	0.781	0.86	0.90	3.6277
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.833	0.004	0.007	0.05	0.01	n.a.
Total:			**8.107**	**86.490**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24040436-01**	*Run Time (min):*	**5.00**
Vial Number:	**GE2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 20:37**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

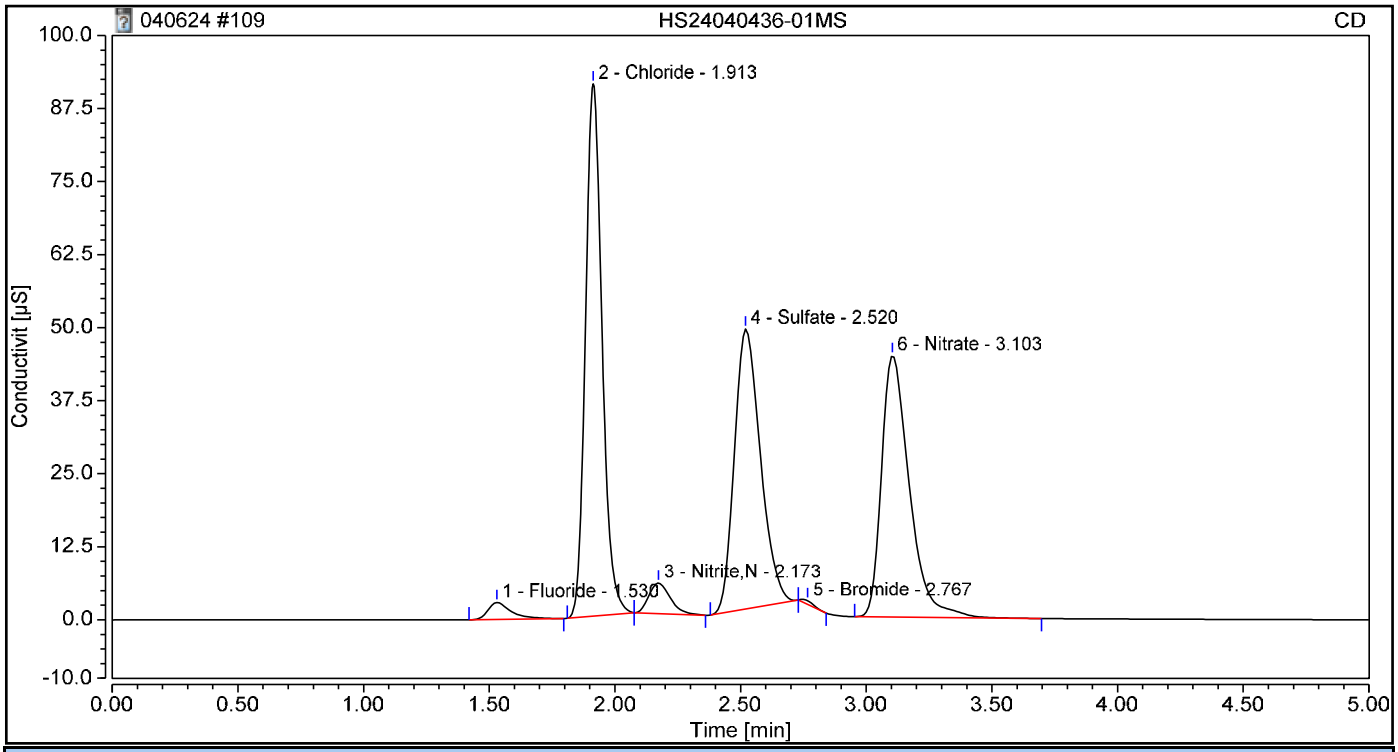
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.520	0.013	0.152	0.08	0.10	0.1409
2	Chloride	1.913	5.628	73.690	35.20	47.35	37.0400
3	Nitrite,N	2.223	0.015	0.118	0.09	0.08	0.0499
4	Sulfate	2.517	5.360	41.680	33.52	26.78	58.1645
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	3.107	4.976	39.993	31.11	25.70	15.3968
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**15.991**	**155.633**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24040436-01MS**	*Run Time (min):*	**5.00**
Vial Number:	**GE3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 20:43**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

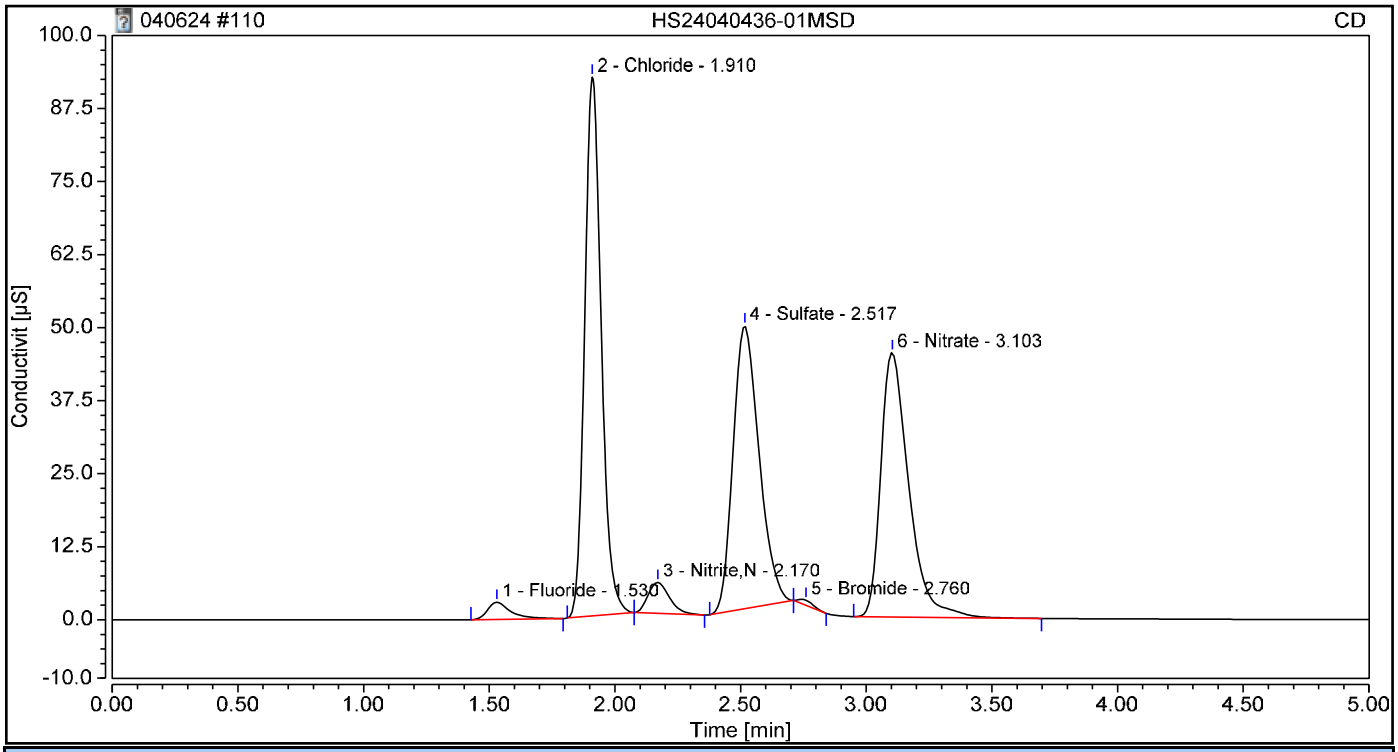
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	0.315	2.906	1.63	1.51	1.6935
2	Chloride	1.913	6.972	91.114	36.09	47.32	45.8673
3	Nitrite,N	2.173	0.515	5.223	2.67	2.71	1.6391
4	Sulfate	2.520	5.735	47.932	29.69	24.89	62.0035
5	Bromide	2.767	0.032	0.611	0.17	0.32	0.9319
6	Nitrate	3.103	5.748	44.770	29.76	23.25	17.7865
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**19.318**	**192.557**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24040436-01MSD**	*Run Time (min):*	**5.00**
Vial Number:	**GE4**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 20:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

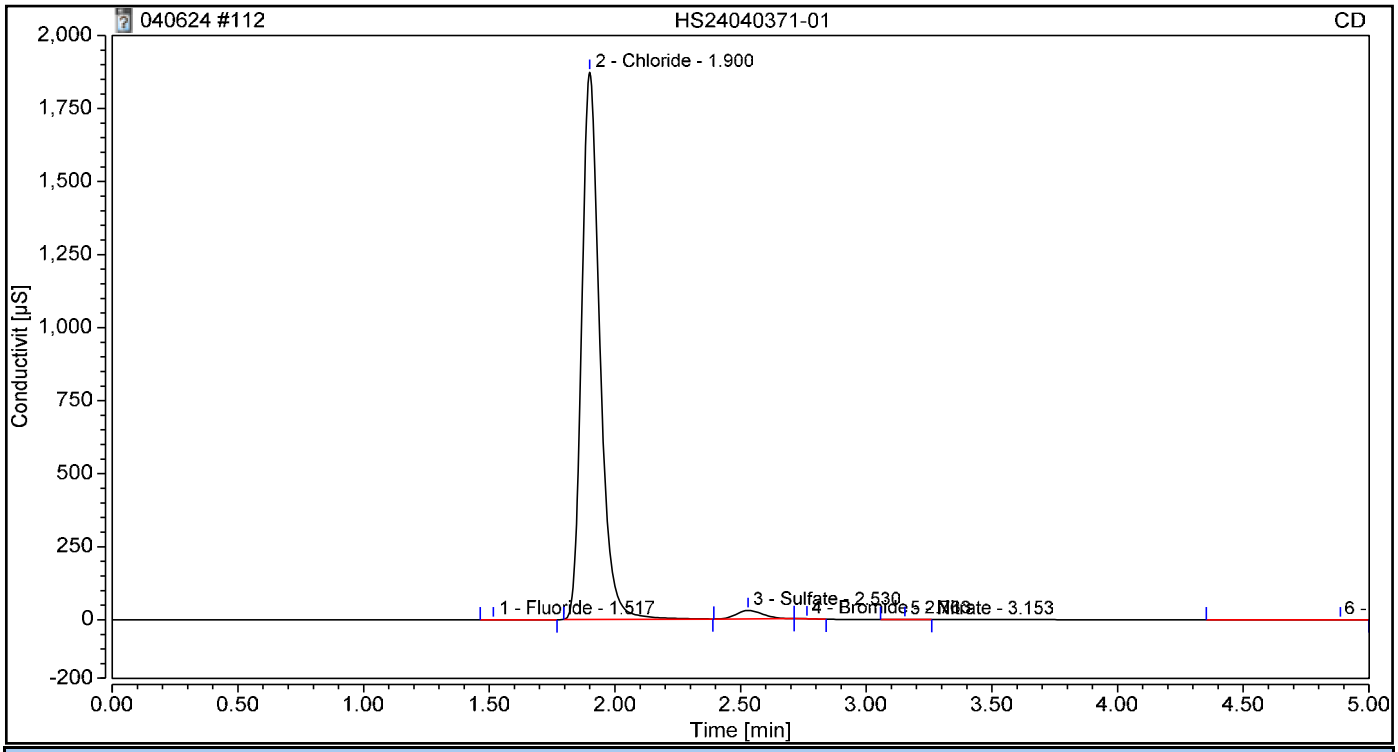
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.530	0.319	2.962	1.63	1.52	1.7112
2	Chloride	1.910	7.049	92.246	36.00	47.28	46.3743
3	Nitrite,N	2.170	0.523	5.304	2.67	2.72	1.6647
4	Sulfate	2.517	5.802	48.464	29.64	24.84	62.6869
5	Bromide	2.760	0.057	0.894	0.29	0.46	1.6574
6	Nitrate	3.103	5.827	45.233	29.76	23.18	18.0312
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**19.579**	**195.102**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24040371-01**	*Run Time (min):*	**5.00**
Vial Number:	**GE6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 21:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

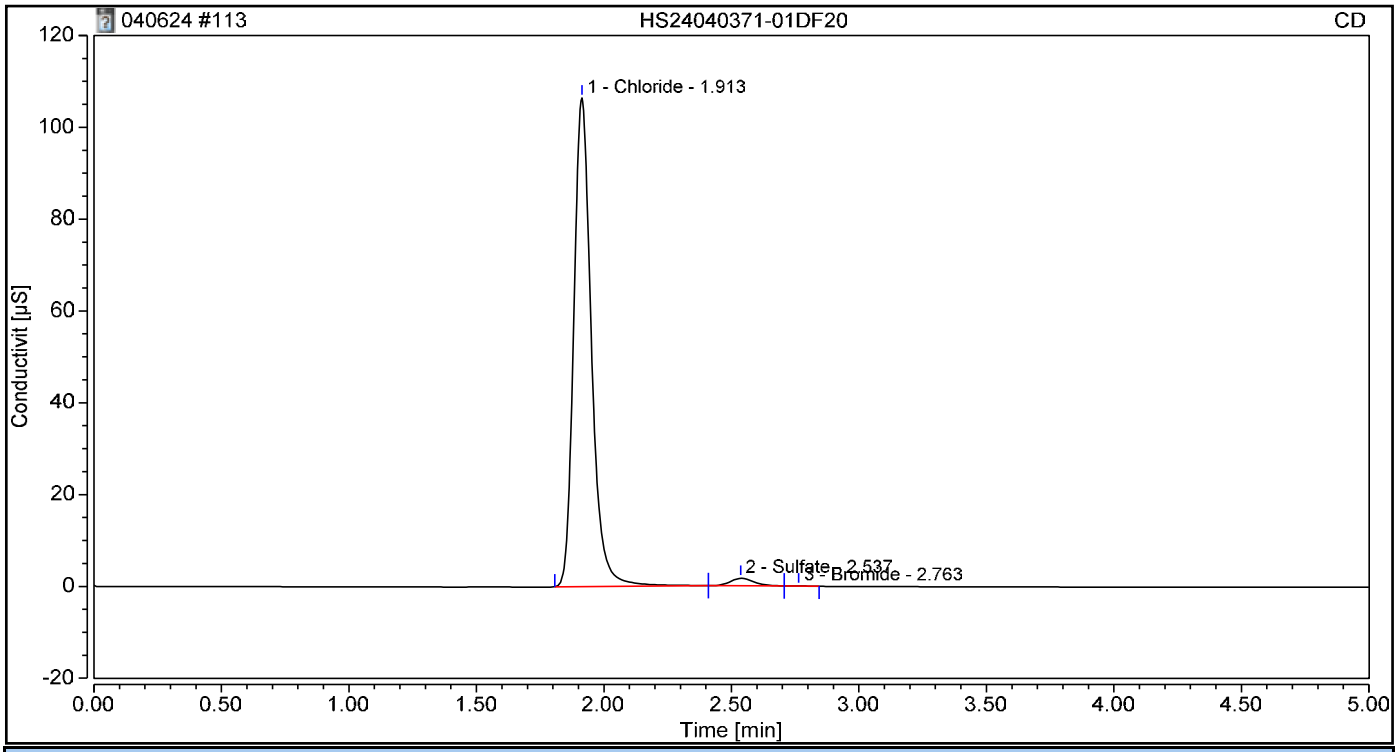
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.517	0.014	0.157	0.01	0.01	0.1487
2	Chloride	1.900	156.689	1872.902	97.76	98.44	1029.4756
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	2.530	3.513	28.801	2.19	1.51	38.8828
4	Bromide	2.763	0.044	0.683	0.03	0.04	1.2720
5	Nitrate	3.153	0.003	0.035	0.00	0.00	0.0200
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6		4.887	0.019	0.025	0.01	0.00	n.a.
Total:			**160.282**	**1902.603**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS24040371-01DF20**	*Run Time (min):*	**5.00**
Vial Number:	**GE7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Injection Date/Time:	**06/Apr/24 21:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

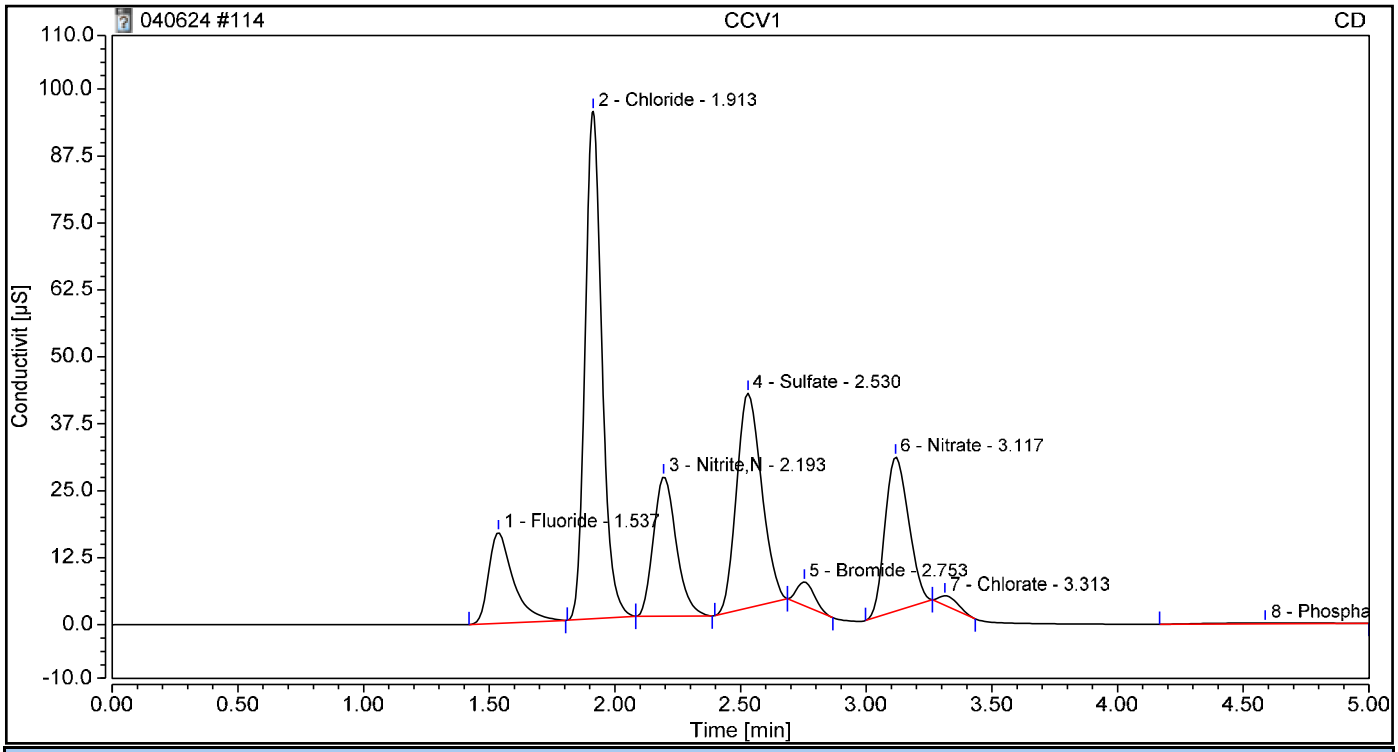
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.913	8.531	106.433	97.99	98.47	1122.1871
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	2.537	0.172	1.614	1.98	1.49	41.3790
3	Bromide	2.763	0.003	0.037	0.03	0.03	1.5542
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**8.706**	**108.085**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV1**	*Run Time (min):*	**5.00**
Vial Number:	**R3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 21:18**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

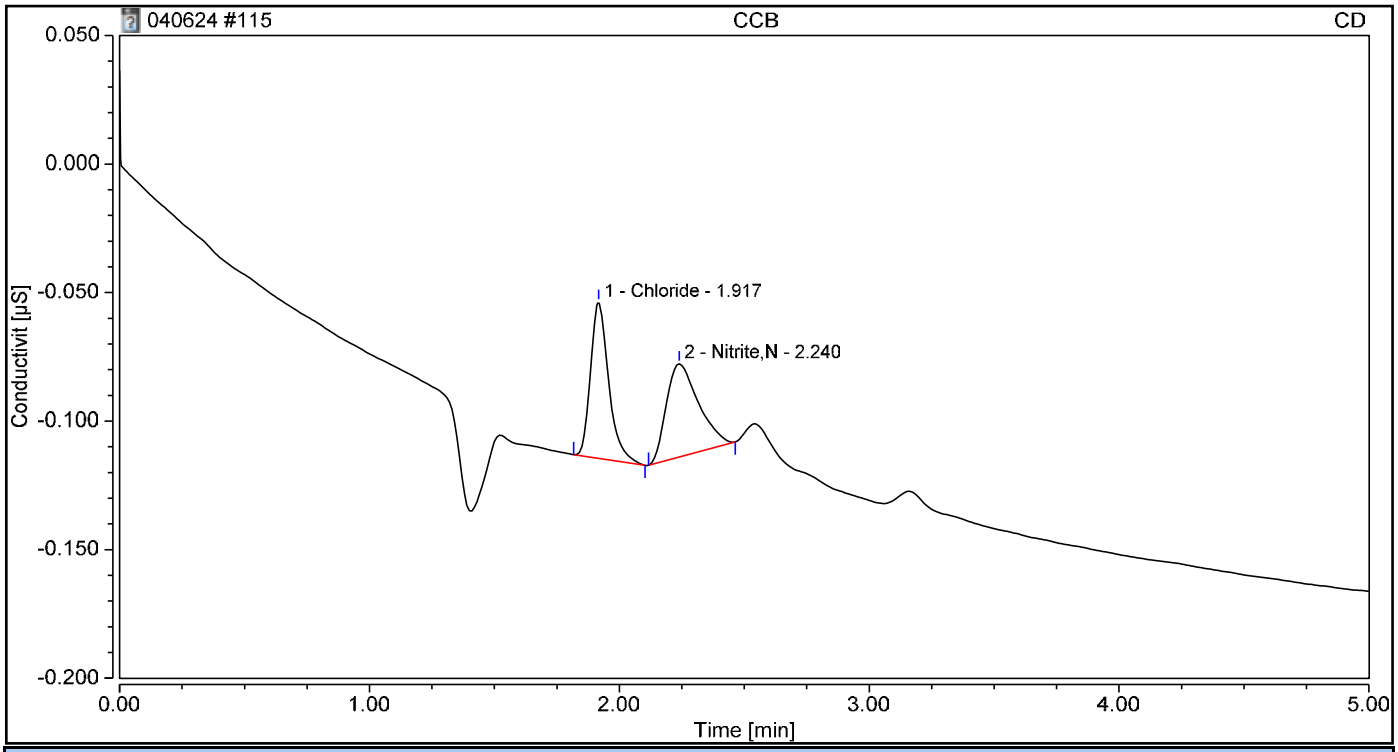
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.537	1.921	16.936	9.40	7.95	9.9347
2	Chloride	1.913	7.382	94.722	36.12	44.47	48.5625
3	Nitrite,N	2.193	2.748	26.043	13.45	12.23	9.5755
4	Sulfate	2.530	4.638	40.085	22.69	18.82	50.7100
5	Bromide	2.753	0.364	4.453	1.78	2.09	9.7566
6	Nitrate	3.117	3.146	28.810	15.39	13.53	9.7378
7	Chlorate	3.313	0.167	1.801	0.82	0.85	9.3964
8	Phosphate	4.587	0.071	0.136	0.35	0.06	4.1553
Total:			**20.437**	**212.986**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**06/Apr/24 21:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.917	0.005	0.061	48.69	62.62	0.0966
2	Nitrite,N	2.240	0.005	0.036	51.31	37.38	0.0198
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.011**	**0.097**	**100.00**	**100.00**	

HS24040371-MSVOA-SW8260 f

ALS WO# HS24040371

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: **HS24040371**

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_040224	Collected	Received	Matrix	Basis
HS24040371-01	04/02/24 13:00	04/03/24 10:10	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/16/24 18:14	VOA11_464219	F041620.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/16/24 18:14	VOA11_464219	F041620.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24040371	

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_040224	Collected	Received	Matrix	Basis
HS24040371-01	04/02/24 13:00	04/03/24 10:10	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
cis-1,2-Dichloroethene	ug/L	1.4		0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Trichloroethene	ug/L	0.23	J	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 18:14	VOA11_464219	F041620.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24040371

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24040371-02	04/02/24 13:00	04/03/24 10:10	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/16/24 17:52	VOA11_464219	F041619.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/16/24 17:52	VOA11_464219	F041619.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	**HS24040371**	

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24040371-02	04/02/24 13:00	04/03/24 10:10	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Trichlorofluoromethane	ug/L	1.5		0.30	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 17:52	VOA11_464219	F041619.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24040371

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464219

LH18/24-SP650_040224

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
HS24040371-01	Water	04/16/24 18:14	%REC	1

Instrument ID: VOA11

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041620.D	49	50	97.2		81-118
4-Bromofluorobenzene	F041620.D	52	50	104		85-114
Dibromofluoromethane	F041620.D	47	50	93.4		80-119
Toluene-d8	F041620.D	48	50	96.3		89-112

Trip Blank

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
HS24040371-02	Water	04/16/24 17:52	%REC	1

Instrument ID: VOA11

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041619.D	48	50	95.9		81-118
4-Bromofluorobenzene	F041619.D	49	50	97.5		85-114
Dibromofluoromethane	F041619.D	47	50	93.5		80-119
Toluene-d8	F041619.D	49	50	97.3		89-112

BatchQC

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
HS24040905-04MS	Aqueous	04/16/24 22:39	%REC	1

Instrument ID: VOA11

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041632.D	44.95	50	89.9		81-118
4-Bromofluorobenzene	F041632.D	51.69	50	103		85-114
Dibromofluoromethane	F041632.D	46.89	50	93.8		80-119
Toluene-d8	F041632.D	55.48	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24040371

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464219

BatchQC

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24040905-04MSD	VOA11	Aqueous	04/16/24 23:02	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041633.D	42.71	50	85.4		81-118
4-Bromofluorobenzene	F041633.D	50.53	50	101		85-114
Dibromofluoromethane	F041633.D	45.91	50	91.8		80-119
Toluene-d8	F041633.D	55.23	50	110		89-112

VBLKW-240416

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
VBLKW-240416	VOA11	Aqueous	04/16/24 17:30	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041618.D	48.31	50	96.6		81-118
4-Bromofluorobenzene	F041618.D	49.62	50	99.2		85-114
Dibromofluoromethane	F041618.D	46.56	50	93.1		80-119
Toluene-d8	F041618.D	50.62	50	101		89-112

VLCSDW-240416

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
VLCSDW-240416	VOA11	Aqueous	04/16/24 16:46	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041616.D	44.53	50	89.1		81-118
4-Bromofluorobenzene	F041616.D	49.38	50	98.8		85-114
Dibromofluoromethane	F041616.D	45.96	50	91.9		80-119
Toluene-d8	F041616.D	46.04	50	92.1		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24040371	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464219

VLCSW-240416

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240416	Aqueous	04/16/24 16:23	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041615.D	43.24	50	86.5		81-118
4-Bromofluorobenzene	F041615.D	46.3	50	92.6		85-114
Dibromofluoromethane	F041615.D	46.24	50	92.5		80-119
Toluene-d8	F041615.D	51.48	50	103		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	04/16/24 16:01	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041614.D	50.35	50	101		80-120
4-Bromofluorobenzene	F041614.D	54.62	50	109		80-120
Dibromofluoromethane	F041614.D	51.55	50	103		80-120
Toluene-d8	F041614.D	58.87	50	118		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder: **HS24040371**

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24040905-04MS

BatchQC (HS24040905-04)				HS24040905-04MS				HS24040905-04MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 04/16/24				Run Date: 04/16/24						
Instrument ID: VOA11				Run Time: 22:39				Run Time: 23:02						
				Data File: F041632.D				Data File: F041633.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	19.9068	20	100		19.8417	20	99		20	0.328	
1,1,1-Trichloroethane	74-131	1	0	22.6602	20	113		20.9636	20	105		20	7.78	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.5153	20	98		18.9882	20	95		20	2.74	
1,1,2-Trichloroethane	80-119	1	0	21.9019	20	110		21.6390	20	108		20	1.21	
1,1-Dichloroethane	77-125	1	0	21.2219	20	106		19.2073	20	96		20	9.97	
1,1-Dichloroethene	71-131	1	0	22.4642	20	112		18.5372	20	93		20	19.2	
1,1-Dichloropropene	78-125	1	0	22.9589	20	115		22.3382	20	112		20	2.74	
1,2,3-Trichlorobenzene	69-129	1	0	22.4646	20	112		21.1545	20	106		20	6.01	
1,2,3-Trichloropropane	73-122	1	0	18.4719	20	92		17.7313	20	89		20	4.09	
1,2,4-Trichlorobenzene	69-130	1	0	23.7687	20	119		23.7208	20	119		20	0.202	
1,2,4-Trimethylbenzene	76-124	1	0	20.6769	20	103		20.8122	20	104		20	0.652	
1,2-Dibromo-3-chloropropane	62-128	1	0	17.7278	20	89		19.1342	20	96		20	7.63	
1,2-Dibromoethane	77-121	1	0	19.9994	20	100		19.0868	20	95		20	4.67	
1,2-Dichlorobenzene	80-119	1	0	21.1220	20	106		21.1941	20	106		20	0.341	
1,2-Dichloroethane	73-128	1	0	20.5146	20	103		20.5529	20	103		20	0.186	
1,2-Dichloropropane	78-122	1	0	22.5831	20	113		20.1461	20	101		20	11.4	
1,3,5-Trimethylbenzene	75-124	1	0	20.3387	20	102		19.0512	20	95		20	6.54	
1,3-Dichlorobenzene	80-119	1	0.4087	21.5048	20	105		21.7607	20	107		20	1.18	
1,3-Dichloropropane	80-119	1	0	21.9407	20	110		20.5771	20	103		20	6.41	
1,4-Dichlorobenzene	79-118	1	0.7739	19.7163	20	95		19.9165	20	96		20	1.01	
2,2-Dichloropropane	60-139	1	0	18.3090	20	92		17.9595	20	90		20	1.93	
2-Butanone	56-143	1	0	37.6412	40	94		36.3684	40	91		20	3.44	
2-Chlorotoluene	79-122	1	0	20.9209	20	105		19.0910	20	96		20	9.15	
2-Hexanone	57-139	1	0	40.7483	40	102		45.7856	40	114		20	11.6	
4-Chlorotoluene	78-122	1	0	20.3241	20	102		18.9845	20	95		20	6.82	
4-Isopropyltoluene	77-127	1	0	20.6988	20	103		20.8216	20	104		20	0.592	
4-Methyl-2-pentanone	67-130	1	0	46.1794	40	115		52.0641	40	130		20	12	
Acetone	39-160	1	0	41.7144	40	104		40.7058	40	102		20	2.45	
Benzene	79-120	1	0	20.6902	20	103		21.5345	20	108		20	4	
Bromobenzene	80-120	1	0	19.8816	20	99		19.0050	20	95		20	4.51	
Bromochloromethane	78-123	1	0	20.0114	20	100		19.4348	20	97		20	2.92	
Bromodichloromethane	79-125	1	0	20.9929	20	105		19.4460	20	97		20	7.65	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder: **HS24040371**

SAMPLENUM: HS24040905-04MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24040905-04)				HS24040905-04MS				HS24040905-04MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 04/16/24				Run Date: 04/16/24						
Instrument ID: VOA11				Run Time: 22:39				Run Time: 23:02						
				Data File: F041632.D				Data File: F041633.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	1	0	16.5451	20	83		17.8482	20	89		20	7.58	
Bromomethane	53-141	1	0	19.5033	20	98		15.8380	20	79		20	20.7	
Carbon disulfide	64-133	1	0	41.1139	40	103		34.1183	40	85		20	18.6	
Carbon tetrachloride	72-136	1	0	21.0556	20	105		20.7067	20	104		20	1.67	
Chlorobenzene	82-118	1	15.54	34.2901	20	94		33.7337	20	91		20	1.64	
Chloroethane	60-138	1	0	24.4774	20	122		19.9996	20	100		20	20.1	
Chloroform	79-124	1	0	21.8936	20	109		19.6020	20	98		20	11	
Chloromethane	50-139	1	0	18.3990	20	92		16.2658	20	81		20	12.3	
cis-1,2-Dichloroethene	78-123	1	0	21.8286	20	109		21.6006	20	108		20	1.05	
cis-1,3-Dichloropropene	75-124	1	0	18.1876	20	91		18.3910	20	92		20	1.11	
Dibromochloromethane	74-126	1	0	18.0246	20	90		16.9999	20	85		20	5.85	
Dibromomethane	79-123	1	0	21.5554	20	108		20.3117	20	102		20	5.94	
Dichlorodifluoromethane	32-152	1	0	22.2288	20	111		19.1809	20	96		20	14.7	
Ethylbenzene	79-121	1	0	22.1746	20	111		22.0334	20	110		20	0.639	
Hexachlorobutadiene	66-134	1	0	20.0038	20	100		19.4347	20	97		20	2.89	
Isopropylbenzene	72-131	1	5.873	26.6874	20	104		27.0416	20	106		20	1.32	
m,p-Xylene	80-121	1	0	40.3831	40	101		40.1570	40	100		20	0.561	
Methylene chloride	74-124	1	0	18.8006	20	94		16.3270	20	82		20	14.1	
Naphthalene	61-128	1	0	22.2893	20	111		24.2689	20	121		20	8.5	
n-Butylbenzene	75-128	1	0	21.3356	20	107		21.1286	20	106		20	0.975	
n-Propylbenzene	76-126	1	1.639	21.4562	20	99		19.5064	20	89		20	9.52	
o-Xylene	78-122	1	0	21.6129	20	108		21.3154	20	107		20	1.39	
sec-Butylbenzene	77-126	1	13.93	33.9045	20	100		33.6070	20	98		20	0.881	
Styrene	78-123	1	0	20.0870	20	100		20.0106	20	100		20	0.381	
tert-Butylbenzene	78-124	1	10.4	29.8486	20	97		28.4821	20	90		20	4.69	
Tetrachloroethene	74-129	1	0	22.2742	20	111		19.6474	20	98		20	12.5	
Toluene	80-121	1	0	22.9683	20	115		22.3644	20	112		20	2.66	
trans-1,2-Dichloroethene	75-124	1	0	20.9763	20	105		17.7076	20	88		20	16.9	
trans-1,3-Dichloropropene	73-127	1	0	18.5267	20	93		18.5796	20	93		20	0.285	
Trichloroethene	79-123	1	0	20.0229	20	100		21.4262	20	107		20	6.77	
Trichlorofluoromethane	65-141	1	0	21.7291	20	109		18.3349	20	92		20	16.9	
Vinyl chloride	58-137	1	0	21.8173	20	109		18.4992	20	92		20	16.5	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24040371	

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24040905-04MS

BatchQC (HS24040905-04)				HS24040905-04MS		HS24040905-04MSD	
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	04/16/24	Run Date	04/16/24
Instrument ID	VOA11			Run Time	22:39	Run Time	23:02
				Data File	F041632.D	Data File	F041633.D

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24040371

SAMPLENUM VLCSW-240416

Volatiles by EPA Volatiles Organics by Method 8260C

VOA11_464219			VLCSW-240416			VLCSDW-240416					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/16/24 Run Time 16:23			Run Date 04/16/24 Run Time 16:46					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	20.45	102		19.19	96		20	6.38	
1,1,1-Trichloroethane	74-131	20	21.5	108		19.86	99		20	7.95	
1,1,2,2-Tetrachloroethane	71-121	20	19.33	97		18.4	92		20	4.92	
1,1,2-Trichloroethane	80-119	20	20.98	105		18.41	92		20	13	
1,1-Dichloroethane	77-125	20	20.14	101		19.05	95		20	5.54	
1,1-Dichloroethene	71-131	20	20.71	104		19.82	99		20	4.41	
1,1-Dichloropropene	78-125	20	20.07	100		18.65	93		20	7.35	
1,2,3-Trichlorobenzene	69-129	20	21.79	109		20.85	104		20	4.38	
1,2,3-Trichloropropane	73-122	20	19.66	98		19.16	96		20	2.59	
1,2,4-Trichlorobenzene	69-130	20	20.53	103		21.55	108		20	4.85	
1,2,4-Trimethylbenzene	76-124	20	18.72	94		19.03	95		20	1.65	
1,2-Dibromo-3-chloropropane	62-128	20	18.6	93		19.09	96		20	2.64	
1,2-Dibromoethane	77-121	20	20.36	102		19.09	95		20	6.43	
1,2-Dichlorobenzene	80-119	20	20.19	101		21.35	107		20	5.56	
1,2-Dichloroethane	73-128	20	19.64	98		19.53	98		20	0.521	
1,2-Dichloropropane	78-122	20	19.1	96		18.94	95		20	0.881	
1,3,5-Trimethylbenzene	75-124	20	18.73	94		18.39	92		20	1.8	
1,3-Dichlorobenzene	80-119	20	21.48	107		20.24	101		20	5.93	
1,3-Dichloropropane	80-119	20	21.08	105		18.51	92		20	13	
1,4-Dichlorobenzene	79-118	20	19.33	97		19.37	97		20	0.184	
2,2-Dichloropropane	60-139	20	18.98	95		18	90		20	5.29	
2-Butanone	56-143	40	39.68	99		38.69	97		20	2.52	
2-Chlorotoluene	79-122	20	19.65	98		19.87	99		20	1.12	
2-Hexanone	57-139	40	44.24	111		35.37	88		20	22.3	
4-Chlorotoluene	78-122	20	18.89	94		18.73	94		20	0.898	
4-Isopropyltoluene	77-127	20	19.62	98		18.39	92		20	6.44	
4-Methyl-2-pentanone	67-130	40	45.16	113		37.24	93		20	19.2	
Acetone	39-160	40	42.79	107		41.08	103		20	4.06	
Benzene	79-120	20	19.07	95		18.78	94		20	1.55	
Bromobenzene	80-120	20	20.34	102		19.14	96		20	6.08	
Bromochloromethane	78-123	20	19.3	96		19.08	95		20	1.14	
Bromodichloromethane	79-125	20	19.65	98		18.85	94		20	4.17	
Bromoform	66-130	20	19.12	96		18.03	90		20	5.85	
Bromomethane	53-141	20	19.44	97		15.8	79		20	20.7	
Carbon disulfide	64-133	40	39.92	100		37.45	94		20	6.39	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24040371

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240416

VOA11_464219			VLCSW-240416			VLCSDW-240416					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/16/24 Run Time 16:23			Run Date 04/16/24 Run Time 16:46					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	19.04	95		17.92	90		20	6.05	
Chlorobenzene	82-118	20	18.94	95		17.94	90		20	5.46	
Chloroethane	60-138	20	20.44	102		18.84	94		20	8.18	
Chloroform	79-124	20	19.39	97		18.77	94		20	3.26	
Chloromethane	50-139	20	17.03	85		17.79	89		20	4.34	
cis-1,2-Dichloroethene	78-123	20	21	105		20.02	100		20	4.75	
cis-1,3-Dichloropropene	75-124	20	18.99	95		17.44	87		20	8.54	
Dibromochloromethane	74-126	20	18.55	93		17.5	88		20	5.81	
Dibromomethane	79-123	20	20.16	101		19.49	98		20	3.34	
Dichlorodifluoromethane	32-152	20	18.86	94		18.1	90		20	4.14	
Ethylbenzene	79-121	20	21.35	107		19.87	99		20	7.2	
Hexachlorobutadiene	66-134	20	18.8	94		19.52	98		20	3.75	
Isopropylbenzene	72-131	20	19.47	97		19.32	97		20	0.753	
m,p-Xylene	80-121	40	38.3	96		35.58	89		20	7.34	
Methylene chloride	74-124	20	18.51	93		20.02	100		20	7.81	
Naphthalene	61-128	20	22.4	112		21.12	106		20	5.9	
n-Butylbenzene	75-128	20	19.01	95		19.61	98		20	3.12	
n-Propylbenzene	76-126	20	19.86	99		18.65	93		20	6.3	
o-Xylene	78-122	20	19.23	96		20.18	101		20	4.83	
sec-Butylbenzene	77-126	20	20	100		18.79	94		20	6.25	
Styrene	78-123	20	19.18	96		20.03	100		20	4.37	
tert-Butylbenzene	78-124	20	18.93	95		18.49	92		20	2.37	
Tetrachloroethene	74-129	20	19.79	99		16.47	82		20	18.3	
Toluene	80-121	20	21.14	106		17.62	88		20	18.1	
trans-1,2-Dichloroethene	75-124	20	19.81	99		19.88	99		20	0.38	
trans-1,3-Dichloropropene	73-127	20	19.27	96		17.82	89		20	7.83	
Trichloroethene	79-123	20	18.55	93		18.38	92		20	0.964	
Trichlorofluoromethane	65-141	20	19.85	99		18.43	92		20	7.41	
Vinyl chloride	58-137	20	19.26	96		18.51	92		20	3.95	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24040371	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240416	Aqueous	04/16/24 17:30	R464219	VOA11

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240416	VLCSW-240416	LCS	04/16/24 16:23	R464219	VOA11	F041615.D
VLCSDW-240416	VLCSDW-240416	LCSD	04/16/24 16:46	R464219	VOA11	F041616.D
Trip Blank	HS24040371-02	SAMP	04/16/24 17:52	R464219	VOA11	F041619.D
LH18/24-SP650_040224	HS24040371-01	SAMP	04/16/24 18:14	R464219	VOA11	F041620.D
BatchQC	HS24040905-04MS	MS	04/16/24 22:39	R464219	VOA11	F041632.D
BatchQC	HS24040905-04MSD	MSD	04/16/24 23:02	R464219	VOA11	F041633.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V11

Lab File ID: F041601 BFB Injection Date: 04/16/24

Instrument ID: VOA11 BFB Injection Time: 1114

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	Greater than 50.0% of mass 95	82.2
175	5.0 - 9.0% of mass 174	6.2 (7.6)1
176	95.0 - 101.0% of mass 174	78.6 (95.6)1
177	5.0 - 9.0% of mass 176	5.5 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	F041602	04/16/24	1136
02	VSTD00.5	VSTD00.5	F041603	04/16/24	1158
03	VSTD001	VSTD001	F041604	04/16/24	1220
04	VSTD002	VSTD002	F041605	04/16/24	1242
05	VSTD005	VSTD005	F041606	04/16/24	1304
06	VSTD010	VSTD010	F041607	04/16/24	1326
07	VSTD020	VSTD020	F041608	04/16/24	1349
08	VSTD050	VSTD050	F041609	04/16/24	1411
09	VSTD100	VSTD100	F041610	04/16/24	1433
10	VSTD200	VSTD200	F041611	04/16/24	1455
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V11

Lab File ID: F041612 BFB Injection Date: 04/16/24

Instrument ID: VOA11 BFB Injection Time: 1517

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.9
175	5.0 - 9.0% of mass 174	7.1 (8.1)1
176	95.0 - 101.0% of mass 174	84.7 (96.3)1
177	5.0 - 9.0% of mass 176	5.7 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	F041613	04/16/24	1539
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder **HS24040371**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA11-464219

Tune File F041612.D 04/16/24 4/16/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.5 (19.5)
75	30.0 - 60.0% of mass 95	53.5 (53.5)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.3 (7.26)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	87.9 (87.9) 1
175	5.0 - 9.0% of mass 174	7.1 (8.12) 1
176	> 95% but < 101% of mass 174	84.7 (96.3) 1
177	5.0 - 9.0% of mass 176	5.7 (6.68) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	4/16/2024	F041614	VSTD050
2	VLCSW-	LCS	4/16/2024	F041615	VLCSW-240416
3	VLCSDW-	LCSD	4/16/2024	F041616	VLCSDW-240416
4	VBLKW-	MBLK	4/16/2024	F041618	VBLKW-240416
5	HS24040371-	SAMP	4/16/2024	F041619	Trip Blank
6	HS24040371-	SAMP	4/16/2024	F041620	LH18/24-SP650_040224
7	HS24040371-	SAMP	4/16/2024	F041622	Trip Blank
8	HS24040905-	MS	4/16/2024	F041632	ZZZZZZMS
9	HS24040905-	MSD	4/16/2024	F041633	ZZZZZZMSD
10	CCV_END	CCV_EN	4/16/2024	F041634	CCV_END

Report Date : 26-Apr-2024 10:00 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041602.D
Level 2: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Level 3: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041604.D
Level 4: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Level 5: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041606.D
Level 6: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D
Level 7: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041608.D
Level 8: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041609.D
Level 9: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041610.D
Level 10: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041611.D

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++	0.61656	0.46224	0.52478	0.59948	0.56564					
	0.53178	0.50857	0.55996	0.56202			AVRG		0.54789		8.58868
3 Chloromethane	+++++	1.29432	0.95438	0.96212	0.94557	0.95403					
	0.91128	0.84407	0.92705	0.89288			AVRG		0.96508		13.37147
4 Propionitrile	+++++	0.10068	0.11259	0.12233	0.12576	0.13619					
	0.13043	0.13021	0.13352	0.14657			AVRG		0.12648		10.65699

Report Date : 26-Apr-2024 10:00 Page 2

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.61681	0.47607	0.50978	0.54895	0.53846					
	0.52833	0.48881	0.54390	0.54677			AVRG		0.53310		7.66876
6 Bromomethane	+++++	2146	4117	8598	20507	37896					
	74303	173218	336301	+++++			QUAD	-0.03293	3.46212	-0.46831	0.99693
7 Chloroethane	+++++	0.33642	0.34502	0.34851	0.38029	0.36073					
	0.34620	0.29921	0.33935	0.32716			AVRG		0.34254		6.50588
8 Trichlorofluoromethane	+++++	0.95642	0.72779	0.80020	0.91637	0.86534					
	0.87275	0.75421	0.87423	0.87151			AVRG		0.84876		8.74850
9 Acrolein	+++++	113	471	1065	3130	6816					
	16645	48324	107005	273632			QUAD	0.06169	22.55645	-13.92338	0.99906
10 Acetone	+++++	2499	3613	5418	13560	24781					
	54734	141774	281554	628285			LINR	0.07560	0.14637		0.99676
11 1,1-Dichloroethene	+++++	0.43398	0.38267	0.38322	0.40682	0.42926					
	0.43252	0.40301	0.46503	0.46938			AVRG		0.42288		7.49570

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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++ / 32637	1063 / 94318	1684 / 168093	3413 / 489075	7294	14705	QUAD	-0.32675	142	-59.58434	0.99974	
13 Acetonitrile	+++++ / 113133	1137 / 325149	4248 / 650617	9618 / 1294675	24918	52220	LINR	0.22124	0.06143		0.99921	
14 Allyl Chloride	+++++ / 174579	3237 / 664155	7581 / 1328864	23657 / 2690042	54231	77974	LINR	0.04460	1.27961		0.99848	
15 Iodomethane	+++++ / 65560	921 / 250219	2027 / 563189	4741 / 1383261	10868	27549	LINR	0.24570	0.32515		0.98910	<-
16 Acrylonitrile	+++++ / 67714	913 / 202945	2111 / 402852	6525 / 863604	16135	34835	LINR	0.08275	0.20287		0.99839	
17 Methylene Chloride	+++++ / 111359	6925 / 296554	10390 / 579227	14274 / 1160255	29130	57084	LINR	-0.00541	0.54528		0.99935	
18 Methyl tert-butyl ether	+++++ / 182852	2958 / 598385	6918 / 1276515	15692 / 2761458	38846	87928	LINR	0.06705	1.30308		0.99692	

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19 Carbon Disulfide	+++++	1.30537	1.10599	1.13249	1.22031	1.28123						
	1.33234	1.28034	1.46541	1.45285			AVRG		1.28626		9.63562	
20 trans-1,2-Dichloroethene	+++++	0.41850	0.40597	0.44994	0.46109	0.48928						
	0.44635	0.46869	0.52500	0.51229			AVRG		0.46412		8.57448	
21 Vinyl Acetate	+++++	4800	10053	23179	59743	135278						
	293612	941511	1932488	3899174			LINR	0.08348	0.92680		0.99878	
22 1,1-Dichloroethane	+++++	0.74705	0.71843	0.76574	0.79661	0.82665						
	0.74505	0.77678	0.86957	0.81593			AVRG		0.78465		6.02565	
23 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
24 2-Butanone	+++++	1119	2826	4791	13698	27778						
	62983	202873	374331	853516			LINR	0.11392	0.19960		0.99702	
25 Methacrylonitrile	+++++	0.38802	0.35388	0.36160	0.38417	0.37400						
	0.36410	0.35300	0.38396	0.38384			AVRG		0.37184		3.74567	

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26 2,2-Dichloropropane	+++++	1558	3643	7416	20138	41532					
	89634	287105	578631	1288329			LINR	0.06378	0.60491		0.99686
27 cis-1,2-Dichloroethene	+++++	0.42562	0.45796	0.46187	0.49979	0.51385					
	0.48995	0.52792	0.54021	0.55054			AVRG		0.49641		8.39072
28 Chloroform	+++++	0.93799	0.87553	0.93037	0.92594	0.89903					
	0.89388	0.87816	0.90488	0.90634			AVRG		0.90579		2.44236
29 Bromochloromethane	+++++	0.28776	0.28448	0.29594	0.29054	0.28013					
	0.26818	0.25904	0.25550	0.24938			AVRG		0.27455		6.16922
31 1,1,1-Trichloroethane	+++++	0.60944	0.61933	0.65399	0.71015	0.70957					
	0.73740	0.75305	0.80393	0.83916			AVRG		0.71511		10.98249
32 1,1-Dichloropropene	+++++	0.34421	0.33780	0.37418	0.39985	0.39602					
	0.42816	0.40838	0.42215	0.44111			AVRG		0.39465		9.15784
33 1,2-Dichloroethane	+++++	0.50488	0.47526	0.52353	0.54181	0.54084					
	0.58874	0.48899	0.50610	0.51604			AVRG		0.52069		6.45729

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34 Carbon Tetrachloride	+++++	0.31096	0.35037	0.36812	0.41549	0.42840					
	0.45967	0.44487	0.47217	0.50248			AVRG		0.41695		14.96657
37 Benzene	+++++	1.15540	1.09952	1.20078	1.22300	1.22654					
	1.42060	1.22881	1.22629	1.24218			AVRG		1.22479		7.05618
38 Trichloroethene	+++++	0.36204	0.31648	0.34339	0.34681	0.34949					
	0.42642	0.37517	0.37578	0.39592			AVRG		0.36572		8.83148
39 Bromodichloromethane	+++++	0.33623	0.34967	0.37543	0.40521	0.40623					
	0.45787	0.44209	0.47834	0.51767			AVRG		0.41875		14.42979
40 Methyl Methacrylate	+++++	1732	4145	9015	22679	52474					
	141838	431907	862235	1880399			LINR	0.06174	0.88608		0.99794
41 2-Chloroethylvinyl ether	+++++	934	2321	5346	14311	34158					
	89899	317349	661020	1360414			LINR	0.12151	0.22043		0.99858
42 1,2-Dichloropropane	+++++	0.28543	0.27593	0.30119	0.30841	0.31789					
	0.35970	0.31785	0.32683	0.33664			AVRG		0.31443		8.15147

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43 2-Nitropropane	+++++ / 0.59465	0.62271 / 0.48022	0.44341 / 0.49697	0.46037 / 0.62819	0.46397	0.51882	AVRG		0.52326		13.91390
44 Dibromomethane	+++++ / 0.25954	0.20522 / 0.22880	0.18791 / 0.24120	0.22770 / 0.25478	0.22198	0.22816	AVRG		0.22837		9.85080
45 4-Methyl-2-Pentanone	+++++ / 131593	1737 / 422897	3658 / 893756	9250 / 2111882	24208	50538	QUAD	0.02854	4.03523	-0.40274	0.99996
46 cis-1,3-Dichloropropene	+++++ / 121506	1801 / 393967	3773 / 844777	8599 / 1728347	20368	45376	LINR	0.05694	0.55976		0.99832
49 Ethyl Methacrylate	+++++ / 112252	1136 / 362381	2815 / 743474	5726 / 1718096	18397	41924	QUAD	0.03047	2.30165	-0.22906	0.99969
50 Toluene	+++++ / 401065	6158 / 1183051	14002 / 2295565	33909 / 4698342	85844	175769	LINR	0.01435	1.49489		0.99930
51 trans-1,3-Dichloropropene	+++++ / 106160	1234 / 353146	3071 / 738167	6453 / 1710052	18069	37402	QUAD	0.03518	2.32895	-0.23994	0.99950

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52 2-Hexanone	+++++	0.18885	0.15394	0.17578	0.18602	0.20552					
	0.22598	0.17411	0.15995	0.21380			AVRG		0.18711		12.95761
53 1,1,2-Trichloroethane	+++++	0.23715	0.26351	0.31545	0.30384	0.29911					
	0.29558	0.28269	0.26866	0.30412			AVRG		0.28557		8.73666
54 1,3-Dichloropropane	+++++	0.44508	0.50434	0.56627	0.58893	0.59356					
	0.66124	0.56735	0.57623	0.61187			AVRG		0.56832		10.94294
55 Dibromochloromethane	+++++	1391	3515	7367	18107	38419					
	100656	292228	627845	1380662			LINR	0.06097	0.43843		0.99575
56 Tetrachloroethene	+++++	0.27322	0.30964	0.34295	0.34962	0.35380					
	0.37895	0.32529	0.33130	0.35476			AVRG		0.33550		9.13702
57 1,2-Dibromoethane	+++++	1472	3880	8100	20733	42137					
	110205	297746	596740	1248832			LINR	0.02518	0.39663		0.99844
58 1-Chlorohexane	+++++	7722	9603	12479	22923	39591					
	89813	238995	468300	943189			LINR	-0.00522	0.30148		0.99935

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59 Chlorobenzene	+++++	1.08439	1.02337	1.15695	1.10605	1.08577						
	1.11493	0.99277	0.99154	1.03334			AVRG		1.06546		5.43100	
60 1,1,1,2-Tetrachloroethane	+++++	0.27814	0.25673	0.31886	0.33642	0.35485						
	0.36336	0.35666	0.37030	0.38667			AVRG		0.33578		12.98203	
61 Ethylbenzene	+++++	0.34551	0.38304	0.43481	0.50047	0.49399						
	0.52480	0.50895	0.51109	0.52276			AVRG		0.46949		14.04636	
62 m,p-Xylenes	+++++	5345	11679	25748	75315	169508						
	356725	1041219	2039784	4029503			LINR	0.00587	0.64336		0.99984	
63 o-Xylene	+++++	2130	5330	11438	31933	74248						
	164363	504684	963054	2021582			LINR	0.02469	0.64249		0.99866	
64 Styrene	+++++	2978	7651	17072	50772	127658						
	283377	869779	1670286	3420818			LINR	0.02047	1.09083		0.99934	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++ / 49592	924 / 166752	1764 / 358310	4037 / 853001	10400	22227	QUAD	0.01244	5.08540	-1.31617	0.99996	
67 Isopropylbenzene	+++++ / 414956	4927 / 1284730	12171 / 2528171	26322 / 5111519	70937	177725	LINR	0.02383	1.63416		0.99960	
68 1,1,2,2-Tetrachloroethane	+++++ / 0.86391	0.78633 / 0.83080	0.77278 / 0.80771	0.88016 / 0.93393	0.79475	0.86705	AVRG		0.83749		6.29797	
71 1,2,3-Trichloropropane	+++++ / 0.77978	0.63286 / 0.77894	0.61489 / 0.78455	0.73091 / 0.96068	0.69444	0.76103	AVRG		0.74867		13.59183	
72 trans-1,4-Dichloro-2-butene	+++++ / 22617	286 / 69924	644 / 154263	1386 / 364794	4003	9785	QUAD	0.01367	11.83651	-7.08729	0.99993	<-
73 n-Propylbenzene	+++++ / 508436	5364 / 1489657	13723 / 2866617	30533 / 5729712	90213	218199	LINR	0.02790	3.45500		0.99785	
74 Bromobenzene	+++++ / 119088	1884 / 352094	4573 / 713358	9837 / 1445423	24475	55305	LINR	0.03704	0.86993		0.99713	

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75 1,3,5-Trimethylbenzene	+++++	3465	9274	21560	65820	161511					
	380302	1116005	2364404	4456187			LINR	0.03001	2.70862		0.99947
76 2-Chlorotoluene	+++++	4360	9968	21820	62639	141451					
	318498	900093	1758788	3537373			LINR	0.02615	2.12826		0.99752
77 4-Chlorotoluene	+++++	4225	10728	25497	76551	174883					
	382430	1074152	2231619	4211219			LINR	0.01750	2.55148		0.99944
78 tert-Butylbenzene	+++++	3714	8365	18499	55815	123461					
	313909	907488	2033202	3851786			LINR	0.04191	2.34286		0.99894
79 1,2,4-Trimethylbenzene	+++++	4148	9304	20175	66791	151228					
	377112	1057833	2302583	4367311			LINR	0.03416	2.65240		0.99914
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	5077	11160	26231	78890	182530					
	453246	1276333	2810976	5380041			LINR	0.03921	3.26538		0.99881

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82 p-Isopropyltoluene	+++++	4483	9840	22768	72059	162517					
	401916	1157813	2525921	4824144			LINR	0.03853	2.92925		0.99896
83 1,3-Dichlorobenzene	+++++	1.17255	1.06791	1.41277	1.44027	1.45648					
	1.57831	1.42111	1.50246	1.60548			AVRG		1.40637		12.60957
84 1,4-Dichlorobenzene	+++++	1.79635	1.54876	1.69664	1.61503	1.57583					
	1.65301	1.45477	1.52605	1.61739			AVRG		1.60931		6.22234
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
86 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
87 n-Butylbenzene	+++++	5230	11106	21361	54830	135123					
	335060	987398	2100111	4130424			LINR	0.04424	2.50052		0.99818
88 1,2-Dichlorobenzene	+++++	1.20257	1.24042	1.35294	1.42015	1.57094					
	1.60007	1.48253	1.46530	1.60895			AVRG		1.43821		10.36900

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89 1,2-Dibromo-3-Chloropropane	+++++	245	380	932	2547	5862						
	14460	46540	106795	275848			QUAD	0.01954	9.88048	-5.88911	0.99994	<-
90 1,2,4-Trichlorobenzene	+++++	2461	4363	8865	22937	59344						
	139087	402555	850784	1935875			QUAD	0.00007	1.19614	-0.07361	0.99972	
91 Hexachlorobutadiene	+++++	0.49099	0.41069	0.44375	0.45017	0.52390						
	0.51341	0.47839	0.45756	0.54936			AVRG		0.47980		9.17007	
92 Naphthalene	+++++	4265	7232	13763	39409	109110						
	277978	914218	1962632	+++++			LINR	0.03317	2.16918		0.99914	
93 1,2,3-Trichlorobenzene	+++++	2261	4620	8811	23869	61366						
	129909	398734	783137	+++++			LINR	0.00313	0.86793		0.99910	
130 Ethyl Acetate	+++++	3016	6279	12155	29708	68125						
	150564	480017	882657	1999158			LINR	0.05376	0.93530		0.99738	
131 Methyl Acrylate	+++++	1048	2673	4132	15690	34400						
	82763	258470	475235	1042092			LINR	0.04738	0.48952		0.99869	

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
132 n-Butanol	+++++	378	829	1923	4404	9154						
	27174	81867	174116	533567			QUAD	0.63191	140	-60.86461	0.99948	<-
133 Ethyl Acrylate	+++++	1048	2520	5683	13409	27844						
	81805	300775	618897	1399635			LINR	0.08968	0.66037		0.99573	
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
135 1,4-Dioxane	47.00000	146	610	1413	3091	8343						
	21077	64136	112341	270120			QUAD	0.20570	200	-83.78021	0.99973	
136 n-Hexane	+++++	1271	3102	6703	17984	42536						
	85274	278057	574420	1099856			LINR	0.02845	0.52709		0.99811	
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
138 Freon TF	+++++	0.53424	0.46468	0.46895	0.53401	0.53206						
	0.51336	0.47181	0.53117	0.53373			AVRG		0.50933		6.15685	

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146 Methyl Acetate	+++++	0.62541	0.46000	0.46363	0.42472	0.45548						
	0.49540	0.44300	0.51989	0.55616			AVRG		0.49374		12.96194	
147 Methylcyclohexane	+++++	2113	4578	8800	24271	49862						
	122140	317020	602325	1175184			LINR	-0.00526	0.37919		0.99939	
149 Isopropyl alcohol	+++++	1340	2811	6079	12007	30728						
	76612	220200	461950	1234450			QUAD	0.43133	52.24923	-7.76410	0.99958	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
151 4-Methyl-2-pentanol	+++++	2936	6178	12463	33069	80518						
	235356	718531	1491583	4457203			QUAD	0.50465	24.08673	-1.78289	0.99972	
148 Tert-butyl alcohol	+++++	1662	4026	7214	18758	40103						
	88871	270984	599169	1721193			QUAD	0.52105	41.06914	-5.11395	0.99915	

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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
139 Diethyl ether	+++++	0.66153	0.53600	0.57032	0.58303	0.57706						
	0.60398	0.54449	0.62718	0.62150			AVRG		0.59168		6.87889	
140 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
141 Cyclohexane	+++++	10403	13271	19375	37347	67513						
	141826	390936	705348	1453442			LINR	-0.00969	0.67969		0.99983	
142 Tetrahydrofuran	+++++	726	1915	3343	8260	18711						
	43833	140427	273406	641894			QUAD	0.04343	8.41617	-1.52098	0.99982	
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
145 alpha-Methylstyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
156 Diisopropyl ether	+++++	3402	8416	17323	49397	112808					
	246734	777266	1532555	2998902			LINR	0.02552	1.43049		0.99909
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
158 Dichlorofluoromethane	+++++	0.94659	0.81174	0.82443	0.88335	0.84908					
	0.85122	0.73392	0.83798	0.81601			AVRG		0.83937		6.83364
159 Propylene oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

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160 2-Methylnaphthalene	+++++ / 70459	845 / 296453	1825 / 765534	3182 / 2246009	8493	22971	QUAD	0.06390	1.38781	-0.12227	0.99858	
161 3-Methyl-1-butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
163 Butyl methacrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
164 Dicyclopentadiene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
165 4-Vinyl-1-cyclohexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++ / 346137	5207 / 963919	10652 / 2095897	23974 / 3997935	66355	146218	LINR	0.03116	2.42307		0.99896	

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167 Ethanol	+++++	953	1383	2166	5038	9963						
	18989	47670	90967	217477			QUAD	-0.65725	260	-154	0.99967	
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
170 1,3,5-Trichlorobenzene	+++++	2461	4363	8865	22937	59344						
	139087	402555	850784	1935875			QUAD	0.00007	1.19614	-0.07361	0.99972	
172 tert-Butyl formate	+++++	1185	2527	4988	11230	24758						
	59065	182252	378619	1168870			QUAD	0.04155	6.46294	-1.29445	0.99971	
173 3,3-Dimethyl-1-butanol	+++++	1977	3645	+++++	20350	46006						
	133062	352607	749128	2066411			QUAD	-0.08489	49.64280	-7.32121	0.99950	<-
174 tert-Amyl methyl ether	+++++	2628	5954	12205	32019	64863						
	163886	549351	1114154	2547935			LINR	0.08051	1.19688		0.99557	
175 tert-Butyl ethyl ether	+++++	2098	6677	14344	37670	82980						
	180101	613387	1214184	2717523			LINR	0.06828	1.27706		0.99690	

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176 tert-Amyl alcohol	+++++	1185	2528	4942	11274	23531					
	59065	182252	376409	1166114			QUAD	0.42528	64.91425	-13.06721	0.99973
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
178 Ethylene oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
180 1-Methylnaphthalene	+++++	1133	2017	3696	11279	27343					
	88171	323047	749020	2088715			QUAD	0.04252	1.40116	-0.12254	0.99958
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
182 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

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183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
188 Isopropyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
189 n-Butyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
194 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
195 Methyl Amyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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202 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
M 94 1,2-Dichloroethylene (total)	+++++	0.42206	0.43197	0.45591	0.48044	0.50157	AVRG		0.48027		8.26185
	0.46815	0.49831	0.53260	0.53141							
M 95 Xylenes (total)	+++++	7475	17009	37186	107248	243756	LINR	0.05790	0.64985		0.99969
	521088	1545903	3002838	6051085							
$ 30 Dibromofluoromethane	+++++	3057	6063	12032	25667	47064	LINR	0.00651	0.49113		0.99967
	95398	278801	498624	1049258							
$ 35 1,2-Dichloroethane-d4	+++++	+++++	8909	16251	33215	61388	LINR	0.00234	0.60605		0.99946
	126240	337864	615555	1297310							
$ 48 Toluene-d8	+++++	10541	18318	34119	75524	148227	QUAD	-0.01472	0.88237	-0.02189	0.99977
	345353	994640	1932426	4084756							
$ 69 4-Bromofluorobenzene	+++++	8131	10601	15286	30658	61168	LINR	0.00313	0.47189		0.99923
	123525	371908	730271	1488454							

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24040371

RunID F041613.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	F041613.D	**Inj Date**	16-APR-2024 1539

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	0.000		80-120	*
1,1,1-Trichloroethane	50.0	0.000		80-120	*
1,1,2,2-Tetrachloroethane	50.0	0.000		80-120	*
Freon TF	50.0	0.000		80-120	*
Methyl acetate	50.0	0.000		80-120	*
Cyclohexane	50.0	0.000		80-120	*
Methylcyclohexane	50.0	0.000		80-120	*
Carbon Disulfide	100	0.000		80-120	*
2-Hexanone	100	0.000		80-120	*
1,1,2-Trichloroethane	50.0	0.000		80-120	*
1,1-Dichloroethane	50.0	0.000		80-120	*
1,1-Dichloroethene	50.0	0.000		80-120	*
1,1-Dichloropropene	50.0	0.000		80-120	*
1,2,3-Trichlorobenzene	50.0	0.000		80-120	*
1,2,3-Trichloropropane	50.0	0.000		80-120	*
1,2,4-Trichlorobenzene	50.0	0.000		80-120	*
1,2,4-Trimethylbenzene	50.0	0.000		80-120	*
1,2-Dibromo-3-Chloropropane	50.0	0.000		80-120	*
1,2-Dibromoethane	50.0	0.000		80-120	*
Acrolein	100	0.000		80-120	*
Acrylonitrile	100	0.000		80-120	*
1,2-Dichlorobenzene	50.0	0.000		80-120	*
1,2-Dichloroethane	50.0	0.000		80-120	*
1,2-Dichloropropane	50.0	0.000		80-120	*
1,3,5-Trimethylbenzene	50.0	0.000		80-120	*
1,3-Dichlorobenzene	50.0	0.000		80-120	*
1,3-Dichloropropane	50.0	0.000		80-120	*
1,4-Dichlorobenzene	50.0	0.000		80-120	*
1-Chlorohexane	50.0	0.000		80-120	*
2,2-Dichloropropane	50.0	0.000		80-120	*
2-Butanone	100	0.000		80-120	*
2-Chloroethylvinyl ether	100	0.000		80-120	*
2-Chlorotoluene	50.0	0.000		80-120	*
4-Chlorotoluene	50.0	0.000		80-120	*

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24040371

RunID F041613.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	F041613.D	**Inj Date**	16-APR-2024 1539

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	0.000		80-120	*
4-Methyl-2-Pentanone	100	0.000		80-120	*
Acetone	100	0.000		80-120	*
Acetonitrile	500	0.000		80-120	*
Allyl Chloride	50.0	0.000		80-120	*
Benzene	50.0	0.000		80-120	*
Bromobenzene	50.0	0.000		80-120	*
Bromochloromethane	50.0	0.000		80-120	*
Bromodichloromethane	50.0	0.000		80-120	*
Bromoform	50.0	0.000		80-120	*
Bromomethane	50.0	0.000		80-120	*
Carbon Tetrachloride	50.0	0.000		80-120	*
Chlorobenzene	50.0	0.000		80-120	*
Chloroethane	50.0	0.000		80-120	*
Chloroform	50.0	0.000		80-120	*
Chloromethane	50.0	0.000		80-120	*
Chloroprene	50.0	0.000		80-120	*
cis-1,2-Dichloroethene	50.0	0.000		80-120	*
cis-1,3-Dichloropropene	50.0	0.000		80-120	*
Dibromochloromethane	50.0	0.000		80-120	*
Dibromomethane	50.0	0.000		80-120	*
Dichlorodifluoromethane	50.0	0.000		80-120	*
Ethylbenzene	50.0	0.000		80-120	*
Ethyl Methacrylate	50.0	0.000		80-120	*
Iodomethane	100	0.000		80-120	*
Isobutyl Alcohol	1000	0.000		70-130	*
Propionitrile	500	0.000		70-130	*
Hexachlorobutadiene	50.0	0.000		80-120	*
Isopropylbenzene	50.0	0.000		80-120	*
m,p-Xylenes	100	0.000		80-120	*
Methyl tert-butyl ether	50.0	0.000		80-120	*
Methylene Chloride	50.0	0.000		80-120	*
Methacrylonitrile	50.0	0.000		80-120	*
Methyl Methacrylate	50.0	0.000		80-120	*

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES **HS24040371**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C F041613.D

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	F041613.D	**Inj Date**	16-APR-2024 1539

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	0.000		80-120	*
n-Propylbenzene	50.0	0.000		80-120	*
Naphthalene	50.0	0.000		80-120	*
o-Xylene	50.0	0.000		80-120	*
sec-Butylbenzene	50.0	0.000		80-120	*
Styrene	50.0	0.000		80-120	*
tert-Butylbenzene	50.0	0.000		80-120	*
Tetrachloroethene	50.0	0.000		80-120	*
Toluene	50.0	0.000		80-120	*
trans-1,2-Dichloroethene	50.0	0.000		80-120	*
trans-1,3-Dichloropropene	50.0	0.000		80-120	*
trans-1,4-Dichloro-2-butene	50.0	0.000		80-120	*
Trichloroethene	50.0	0.000		80-120	*
Trichlorofluoromethane	50.0	0.000		80-120	*
Vinyl Acetate	100	0.000		80-120	*
Vinyl Chloride	50.0	0.000		80-120	*
1,2-Dichloroethylene (total)	100	0.000		80-120	*
Xylenes (total)	150	0.000		80-120	*
1,4-Dioxane	1000	0.000		80-120	*
Dibromofluoromethane	50.0	0.000		85-115	*
1,2-Dichloroethane-d4	50.0	0.000		70-120	*
Toluene-d8	50.0	0.000		85-115	*
4-Bromofluorobenzene	50.0	0.000		75-120	*

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040371

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID F041614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.548	0.531	0.531	0.100	-3.088	20.0	Averaged	
Chloromethane	0.965	0.848	0.848	0.100	-12.166	20.0	Averaged	
Propionitrile	0.126	0.141	0.141	0.010	11.8	20.0	Averaged	
Vinyl Chloride	0.533	0.510	0.510	0.100	-4.363	20.0	Averaged	
Bromomethane	50.0	45.4	0.283	0.100	-9.166	20.0	Quadratic	
Chloroethane	0.343	0.315	0.315	0.100	-7.945	20.0	Averaged	
Trichlorofluoromethane	0.849	0.798	0.798	0.100	-5.962	20.0	Averaged	
Dichlorofluoromethane	0.839	0.774	0.774	0.100	-7.771	20.0	Averaged	
Acrolein	100	100	0.046	0.010	0.363	20.0	Quadratic	
Acetone	100	93.8	0.132	0.100	-6.227	20.0	Linear	
1,1-Dichloroethene	0.423	0.430	0.430	0.100	1.65	20.0	Averaged	
Isobutyl Alcohol	1000	1187	0.009	0.005	18.7	20.0	Quadratic	
Acetonitrile	500	480	0.058	0.005	-4.002	20.0	Linear	
Allyl Chloride	50.0	49.6	1.21	0.100	-0.737	20.0	Linear	
Iodomethane	100	112	0.325	0.100	12.3	20.0	Linear	
Acrylonitrile	100	96.2	0.187	0.050	-3.773	20.0	Linear	
Methylene Chloride	50.0	48.0	0.526	0.100	-4.065	20.0	Linear	
Methyl tert-butyl ether	50.0	48.7	1.18	0.100	-2.512	20.0	Linear	
Carbon Disulfide	1.29	1.33	1.33	0.100	3.48	20.0	Averaged	
trans-1,2-Dichloroethene	0.464	0.489	0.489	0.100	5.39	20.0	Averaged	
Vinyl Acetate	100	98.8	0.877	0.010	-1.217	20.0	Linear	
1,1-Dichloroethane	0.785	0.820	0.820	0.200	4.57	20.0	Averaged	
2-Butanone	100	99.0	0.187	0.100	-0.696	20.0	Linear	
Methacrylonitrile	0.372	0.359	0.359	0.100	-3.565	20.0	Averaged	
2,2-Dichloropropane	50.0	47.5	0.536	0.100	-5.008	20.0	Linear	
cis-1,2-Dichloroethene	0.496	0.553	0.553	0.100	11.4	20.0	Averaged	
Chloroform	0.906	0.913	0.913	0.200	0.755	20.0	Averaged	
Bromochloromethane	0.275	0.270	0.270	0.100	-1.561	20.0	Averaged	
30 Dibromofluoromethane	50.0	51.6	0.503	0.100	3.10	20.0	Linear	
1,1,1-Trichloroethane	0.715	0.808	0.808	0.100	13.0	20.0	Averaged	
1,1-Dichloropropene	0.395	0.435	0.435	0.100	10.2	20.0	Averaged	
1,2-Dichloroethane	0.521	0.513	0.513	0.100	-1.514	20.0	Averaged	
Carbon Tetrachloride	0.417	0.468	0.468	0.100	12.3	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	50.4	0.609	0.100	0.705	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24040371

RunID F041614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.22	1.29	1.29	0.500	4.93	20.0	Averaged	
Trichloroethene	0.366	0.395	0.395	0.200	7.95	20.0	Averaged	
Bromodichloromethane	0.419	0.457	0.457	0.200	9.14	20.0	Averaged	
Methyl Methacrylate	50.0	48.0	0.797	0.100	-3.913	20.0	Linear	
2-Chloroethylvinyl ether	100	96.6	0.200	0.001	-3.385	20.0	Linear	
1,2-Dichloropropane	0.314	0.333	0.333	0.100	5.96	20.0	Averaged	
2-Nitropropane	0.523	0.544	0.544	0.000	3.98	20.0	Averaged	
Dibromomethane	0.228	0.241	0.241	0.100	5.64	20.0	Averaged	
4-Methyl-2-Pentanone	100	119	0.312	0.100	19.4	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	47.5	0.500	0.200	-4.948	20.0	Linear	
48 Toluene-d8	50.0	58.9	1.40	0.100	17.7	20.0	Quadratic	
Ethyl Methacrylate	50.0	53.3	0.472	0.100	6.61	20.0	Quadratic	
Toluene	50.0	54.5	1.61	0.400	8.91	20.0	Linear	
trans-1,3-Dichloropropene	50.0	51.6	0.449	0.100	3.26	20.0	Quadratic	
2-Hexanone	0.187	0.209	0.209	0.100	11.5	20.0	Averaged	
1,1,2-Trichloroethane	0.286	0.313	0.313	0.100	9.58	20.0	Averaged	
1,3-Dichloropropane	0.568	0.639	0.639	0.100	12.4	20.0	Averaged	
Dibromochloromethane	50.0	49.4	0.406	0.100	-1.238	20.0	Linear	
Tetrachloroethene	0.336	0.364	0.364	0.200	8.53	20.0	Averaged	
1,2-Dibromoethane	50.0	52.7	0.408	0.100	5.45	20.0	Linear	
1-Chlorohexane	50.0	47.4	0.287	0.100	-5.203	20.0	Linear	
Chlorobenzene	1.07	1.10	1.10	0.500	3.60	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.336	0.398	0.398	0.100	18.4	20.0	Averaged	
Ethylbenzene	0.469	0.562	0.562	0.100	19.7	20.0	Averaged	
m,p-Xylenes	100	109	0.701	0.100	9.19	20.0	Linear	
o-Xylene	50.0	53.8	0.676	0.300	7.63	20.0	Linear	
Styrene	50.0	53.9	1.15	0.300	7.76	20.0	Linear	
Bromoform	50.0	56.7	0.235	0.100	13.5	20.0	Quadratic	
Isopropylbenzene	50.0	55.0	1.76	0.100	10.0	20.0	Linear	
1,1,2,2-Tetrachloroethane	0.837	0.943	0.943	0.300	12.7	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	54.6	0.514	0.100	9.25	20.0	Linear	
1,2,3-Trichloropropane	0.749	0.896	0.896	0.100	19.7	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	57.2	0.102	0.050	14.4	20.0	Quadratic	
n-Propylbenzene	50.0	56.7	3.82	0.100	13.4	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES **HS24040371**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

F041614.D

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	54.8	0.922	0.100	9.67	20.0	Linear	
1,3,5-Trimethylbenzene	50.0	55.0	2.90	0.100	9.92	20.0	Linear	
2-Chlorotoluene	50.0	56.2	2.34	0.100	12.4	20.0	Linear	
4-Chlorotoluene	50.0	55.0	2.76	0.100	9.95	20.0	Linear	
tert-Butylbenzene	50.0	54.7	2.47	0.100	9.43	20.0	Linear	
1,2,4-Trimethylbenzene	50.0	54.9	2.82	0.100	9.87	20.0	Linear	
sec-Butylbenzene	50.0	55.2	3.48	0.100	10.5	20.0	Linear	
p-Isopropyltoluene	50.0	54.4	3.07	0.100	8.81	20.0	Linear	
1,3-Dichlorobenzene	1.41	1.70	1.70	0.600	20.9	20.0	Averaged	*
1,4-Dichlorobenzene	1.61	1.73	1.73	0.400	7.32	20.0	Averaged	
n-Butylbenzene	50.0	52.7	2.52	0.500	5.36	20.0	Linear	
1,2-Dichlorobenzene	1.44	1.66	1.66	0.400	15.6	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.8	0.120	0.050	11.6	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	59.1	1.06	0.200	18.3	20.0	Quadratic	
Hexachlorobutadiene	0.480	0.537	0.537	0.100	12.0	20.0	Averaged	
Naphthalene	50.0	58.0	2.44	0.200	16.0	20.0	Linear	
1,2,3-Trichlorobenzene	50.0	60.7	1.05	0.100	21.5	20.0	Linear	*
Methyl Acetate	0.494	0.501	0.501	0.100	1.38	20.0	Averaged	
Freon TF	0.509	0.492	0.492	0.100	-3.312	20.0	Averaged	
Diethyl ether	0.592	0.596	0.596	0.100	0.717	20.0	Averaged	
Cyclohexane	50.0	50.9	0.699	0.100	1.82	20.0	Linear	
Methylcyclohexane	50.0	50.5	0.385	0.100	0.950	20.0	Linear	
n-Butanol	1000	1169	0.009	0.005	16.9	20.0	Quadratic	
Methyl Acrylate	50.0	52.1	0.487	0.100	4.20	20.0	Linear	
Ethyl Acrylate	50.0	46.8	0.559	0.100	-6.314	20.0	Linear	
1,4-Dioxane	1000	1114	0.006	0.001	11.4	20.0	Quadratic	
n-Hexane	50.0	50.1	0.513	0.100	0.103	20.0	Linear	
Tetrahydrofuran	100	112	0.137	0.001	12.1	20.0	Quadratic	
Tert-butyl alcohol	1000	1129	0.029	0.005	12.9	20.0	Quadratic	
Isopropyl alcohol	1000	1101	0.022	0.005	10.1	20.0	Quadratic	
4-Methyl-2-pentanol	1000	1150	0.050	0.005	15.0	20.0	Quadratic	
1,2,3-Trimethylbenzene	50.0	55.0	2.59	0.100	9.95	20.0	Linear	
Ethanol	1000	1095	0.005	0.001	9.50	20.0	Quadratic	
1,3,5-Trichlorobenzene	50.0	59.1	1.06	0.100	18.3	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES **HS24040371**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

F041614.D

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	120	0.198	0.100	19.7	20.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1241	0.027	0.005	24.1	20.0	Quadratic	*
tert-Amyl methyl ether	50.0	50.1	1.10	0.005	0.271	20.0	Linear	
tert-Butyl ethyl ether	50.0	50.7	1.21	0.100	1.39	20.0	Linear	
2-Methylnaphthalene	50.0	62.6	0.933	0.100	25.2	20.0	Quadratic	*
Diisopropyl ether	50.0	51.0	1.42	0.100	1.98	20.0	Linear	
1-Methylnaphthalene	50.0	68.9	1.05	0.100	37.9	20.0	Quadratic	*
Ethyl Acetate	50.0	51.0	0.903	0.100	1.94	20.0	Linear	
tert-Amyl alcohol	1000	1203	0.020	0.005	20.3	20.0	Quadratic	*
94 1,2-Dichloroethylene (total	0.480	0.521	0.521	0.200	8.48	20.0	Averaged	
95 Xylenes (total)	150	163	0.616	0.100	8.67	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040371

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.548	0.535	0.535	0.100	-2.439	50.0	Averaged	
Chloromethane	0.965	0.809	0.809	0.100	-16.126	50.0	Averaged	
Propionitrile	0.126	0.131	0.131	0.010	3.89	50.0	Averaged	
Vinyl Chloride	0.533	0.511	0.511	0.100	-4.195	50.0	Averaged	
Bromomethane	50.0	42.8	0.266	0.100	-14.477	50.0	Quadratic	
Chloroethane	0.343	0.340	0.340	0.100	-0.844	50.0	Averaged	
Trichlorofluoromethane	0.849	0.827	0.827	0.100	-2.561	50.0	Averaged	
Dichlorofluoromethane	0.839	0.785	0.785	0.100	-6.518	50.0	Averaged	
Acrolein	100	151	0.072	0.010	50.6	50.0	Quadratic	*
Acetone	100	88.8	0.124	0.100	-11.210	50.0	Linear	
1,1-Dichloroethene	0.423	0.405	0.405	0.100	-4.218	50.0	Averaged	
Isobutyl Alcohol	1000	1041	0.008	0.005	4.10	50.0	Quadratic	
Acetonitrile	500	467	0.056	0.005	-6.650	50.0	Linear	
Allyl Chloride	50.0	45.1	1.10	0.100	-9.782	50.0	Linear	
Iodomethane	100	86.0	0.240	0.100	-13.954	50.0	Linear	
Acrylonitrile	100	89.4	0.173	0.050	-10.609	50.0	Linear	
Methylene Chloride	50.0	44.6	0.489	0.100	-10.874	50.0	Linear	
Methyl tert-butyl ether	50.0	45.0	1.09	0.100	-10.029	50.0	Linear	
Carbon Disulfide	1.29	1.18	1.18	0.100	-8.026	50.0	Averaged	
trans-1,2-Dichloroethene	0.464	0.445	0.445	0.100	-4.179	50.0	Averaged	
Vinyl Acetate	100	92.8	0.822	0.010	-7.183	50.0	Linear	
1,1-Dichloroethane	0.785	0.755	0.755	0.200	-3.778	50.0	Averaged	
2-Butanone	100	94.7	0.178	0.100	-5.282	50.0	Linear	
Methacrylonitrile	0.372	0.360	0.360	0.100	-3.196	50.0	Averaged	
2,2-Dichloropropane	50.0	44.2	0.496	0.100	-11.664	50.0	Linear	
cis-1,2-Dichloroethene	0.496	0.536	0.536	0.100	7.99	50.0	Averaged	
Chloroform	0.906	0.892	0.892	0.200	-1.511	50.0	Averaged	
Bromochloromethane	0.275	0.252	0.252	0.100	-8.273	50.0	Averaged	
30 Dibromofluoromethane	50.0	46.7	0.456	0.100	-6.592	50.0	Linear	
1,1,1-Trichloroethane	0.715	0.790	0.790	0.100	10.5	50.0	Averaged	
1,1-Dichloropropene	0.395	0.393	0.393	0.100	-0.533	50.0	Averaged	
1,2-Dichloroethane	0.521	0.493	0.493	0.100	-5.324	50.0	Averaged	
Carbon Tetrachloride	0.417	0.421	0.421	0.100	0.987	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	45.7	0.553	0.100	-8.600	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040371

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.22	1.24	1.24	0.500	1.28	50.0	Averaged	
Trichloroethene	0.366	0.340	0.340	0.200	-6.987	50.0	Averaged	
Bromodichloromethane	0.419	0.403	0.403	0.200	-3.788	50.0	Averaged	
Methyl Methacrylate	50.0	46.8	0.774	0.100	-6.464	50.0	Linear	
2-Chloroethylvinyl ether	100	82.6	0.169	0.001	-17.440	50.0	Linear	
1,2-Dichloropropane	0.314	0.300	0.300	0.100	-4.531	50.0	Averaged	
2-Nitropropane	0.523	0.514	0.514	0.000	-1.819	50.0	Averaged	
Dibromomethane	0.228	0.222	0.222	0.100	-2.810	50.0	Averaged	
4-Methyl-2-Pentanone	100	98.8	0.254	0.100	-1.204	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	41.4	0.431	0.200	-17.268	50.0	Linear	
48 Toluene-d8	50.0	45.6	1.08	0.100	-8.829	50.0	Quadratic	
Ethyl Methacrylate	50.0	46.8	0.410	0.100	-6.441	50.0	Quadratic	
Toluene	50.0	46.5	1.37	0.400	-7.061	50.0	Linear	
trans-1,3-Dichloropropene	50.0	45.8	0.394	0.100	-8.468	50.0	Quadratic	
2-Hexanone	0.187	0.167	0.167	0.100	-10.704	50.0	Averaged	
1,1,2-Trichloroethane	0.286	0.252	0.252	0.100	-11.719	50.0	Averaged	
1,3-Dichloropropane	0.568	0.511	0.511	0.100	-10.067	50.0	Averaged	
Dibromochloromethane	50.0	38.9	0.315	0.100	-22.162	50.0	Linear	
Tetrachloroethene	0.336	0.283	0.283	0.200	-15.528	50.0	Averaged	
1,2-Dibromoethane	50.0	44.6	0.344	0.100	-10.789	50.0	Linear	
1-Chlorohexane	50.0	45.4	0.275	0.100	-9.209	50.0	Linear	
Chlorobenzene	1.07	0.982	0.982	0.500	-7.829	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.336	0.354	0.354	0.100	5.37	50.0	Averaged	
Ethylbenzene	0.469	0.510	0.510	0.100	8.55	50.0	Averaged	
m,p-Xylenes	100	97.6	0.626	0.100	-2.418	50.0	Linear	
o-Xylene	50.0	49.2	0.616	0.300	-1.636	50.0	Linear	
Styrene	50.0	49.0	1.05	0.300	-1.976	50.0	Linear	
Bromoform	50.0	49.9	0.204	0.100	-0.294	50.0	Quadratic	
Isopropylbenzene	50.0	49.7	1.58	0.100	-0.668	50.0	Linear	
1,1,2,2-Tetrachloroethane	0.837	0.898	0.898	0.300	7.27	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	50.9	0.479	0.100	1.78	50.0	Linear	
1,2,3-Trichloropropane	0.749	0.838	0.838	0.100	12.0	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	46.0	0.080	0.050	-8.010	50.0	Quadratic	
n-Propylbenzene	50.0	53.3	3.59	0.100	6.55	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040371

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	50.7	0.851	0.100	1.48	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	51.3	2.70	0.100	2.61	50.0	Linear	
2-Chlorotoluene	50.0	52.7	2.19	0.100	5.32	50.0	Linear	
4-Chlorotoluene	50.0	51.2	2.57	0.100	2.43	50.0	Linear	
tert-Butylbenzene	50.0	51.0	2.29	0.100	2.07	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	50.9	2.61	0.100	1.88	50.0	Linear	
sec-Butylbenzene	50.0	48.5	3.04	0.100	-2.939	50.0	Linear	
p-Isopropyltoluene	50.0	48.1	2.70	0.100	-3.855	50.0	Linear	
1,3-Dichlorobenzene	1.41	1.46	1.46	0.600	3.95	50.0	Averaged	
1,4-Dichlorobenzene	1.61	1.51	1.51	0.400	-5.914	50.0	Averaged	
n-Butylbenzene	50.0	45.6	2.17	0.500	-8.892	50.0	Linear	
1,2-Dichlorobenzene	1.44	1.46	1.46	0.400	1.19	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	49.7	0.105	0.050	-0.665	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	52.5	0.931	0.200	4.99	50.0	Quadratic	
Hexachlorobutadiene	0.480	0.454	0.454	0.100	-5.329	50.0	Averaged	
Naphthalene	50.0	52.0	2.18	0.200	3.92	50.0	Linear	
1,2,3-Trichlorobenzene	50.0	50.5	0.873	0.100	0.925	50.0	Linear	
Methyl Acetate	0.494	0.472	0.472	0.100	-4.433	50.0	Averaged	
Freon TF	0.509	0.467	0.467	0.100	-8.389	50.0	Averaged	
Diethyl ether	0.592	0.598	0.598	0.100	1.12	50.0	Averaged	
Cyclohexane	50.0	49.5	0.680	0.100	-0.968	50.0	Linear	
Methylcyclohexane	50.0	46.2	0.353	0.100	-7.533	50.0	Linear	
n-Butanol	1000	1056	0.008	0.005	5.55	50.0	Quadratic	
Methyl Acrylate	50.0	47.4	0.440	0.100	-5.293	50.0	Linear	
Ethyl Acrylate	50.0	42.7	0.505	0.100	-14.513	50.0	Linear	
1,4-Dioxane	1000	1021	0.005	0.001	2.06	50.0	Quadratic	
n-Hexane	50.0	44.5	0.454	0.100	-10.993	50.0	Linear	
Tetrahydrofuran	100	106	0.130	0.001	6.49	50.0	Quadratic	
Tert-butyl alcohol	1000	1011	0.026	0.005	1.13	50.0	Quadratic	
Isopropyl alcohol	1000	986	0.020	0.005	-1.374	50.0	Quadratic	
4-Methyl-2-pentanol	1000	1001	0.043	0.005	0.147	50.0	Quadratic	
1,2,3-Trimethylbenzene	50.0	47.8	2.24	0.100	-4.327	50.0	Linear	
Ethanol	1000	1044	0.004	0.001	4.40	50.0	Quadratic	
1,3,5-Trichlorobenzene	50.0	52.5	0.931	0.100	4.99	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24040371

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	114	0.187	0.100	13.9	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	997	0.022	0.005	-0.330	50.0	Quadratic	
tert-Amyl methyl ether	50.0	49.4	1.09	0.005	-1.109	50.0	Linear	
tert-Butyl ethyl ether	50.0	50.0	1.19	0.100	0.061	50.0	Linear	
2-Methylnaphthalene	50.0	53.7	0.782	0.100	7.47	50.0	Quadratic	
Diisopropyl ether	50.0	48.0	1.34	0.100	-4.058	50.0	Linear	
1-Methylnaphthalene	50.0	55.1	0.814	0.100	10.2	50.0	Quadratic	
Ethyl Acetate	50.0	47.6	0.841	0.100	-4.707	50.0	Linear	
tert-Amyl alcohol	1000	1144	0.019	0.005	14.4	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.480	0.490	0.490	0.200	2.11	50.0	Averaged	
95 Xylenes (total)	150	147	0.614	0.100	-2.158	50.0	Linear	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24040371

EPA SW8260

VOA11_464219		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	F041614.D	588003	#	4.86	#	861300	#	5.59	#	766974	#	8.22	#	408271	#	10.2	#
HS24040371-01	F041620.D	479624		4.86		746003		5.59		701494		8.22		378365		10.2	
HS24040371-02	F041622.D	437491		4.86		705138		5.59		647766		8.21		343486		10.2	
HS24040371-02	F041619.D	480473		4.86		754886		5.59		689767		8.21		388060		10.2	
VBLKW-240416	F041618.D	486943		4.86		759762		5.59		675289		8.21		403917		10.2	
VLCSDW-240416	F041616.D	533459		4.86		801202		5.59		803157		8.21		433223		10.2	
VLCSW-240416	F041615.D	534076		4.86		836443		5.59		781086		8.21		456487		10.2	
MS-ZZZZZZMS	F041632.D	523400		4.86		813115		5.59		752479		8.21		425725		10.2	
ZZZZZZMSD	F041633.D	588667		4.86		811150		5.59		736223		8.21		470079		10.2	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	**HS24040371**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA11-464218

Run ID VOA11_464218 **Start Date** 04/16/24 **EndDate** 04/16/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:36	VSTD00.25	ICAL1	VSTD00.25	F041602.D	04/16/24	1
11:58	VSTD00.5	ICAL2	VSTD00.5	F041603.D	04/16/24	1
12:20	VSTD001	ICAL3	VSTD001	F041604.D	04/16/24	1
12:42	VSTD002	ICAL4	VSTD002	F041605.D	04/16/24	1
13:04	VSTD005	ICAL5	VSTD005	F041606.D	04/16/24	1
13:26	VSTD010	ICAL6	VSTD010	F041607.D	04/16/24	1
13:49	VSTD020	ICAL7	VSTD020	F041608.D	04/16/24	1
14:11	VSTD050	ICAL8	VSTD050	F041609.D	04/16/24	1
14:33	VSTD100	ICAL9	VSTD100	F041610.D	04/16/24	1
14:55	VSTD200	ICAL	VSTD200	F041611.D	04/16/24	1
15:39	VSTD050	ICV	VSTD050	F041613.D	04/16/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder **HS24040371**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA11-464219

Run ID VOA11_464219 **Start Date** 04/16/24 **EndDate** 04/16/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
16:01	VSTD050	CCV	VSTD050	F041614.D	04/16/24	1
16:23	VLCSW-240416	LCS	VLCSW-240416	F041615.D	04/16/24	1
16:46	VLCSDW-240416	LCSD	VLCSDW-240416	F041616.D	04/16/24	1
17:30	VBLKW-240416	MBLK	VBLKW-240416	F041618.D	04/16/24	1
17:52	HS24040371-02	SAMP	Trip Blank	F041619.D	04/16/24	1
18:14	HS24040371-01	SAMP	LH18/24-	F041620.D	04/16/24	1
18:36	HS24040405-05	SAMP	ZZZZZZZZZZ	F041621.D	04/16/24	1
18:58	HS24040371-02	SAMP	Trip Blank	F041622.D	04/16/24	1
19:20	HS24040435-02	SAMP	ZZZZZZZZZZ	F041623.D	04/16/24	1
19:42	HS24040436-02	SAMP	ZZZZZZZZZZ	F041624.D	04/16/24	1
20:05	HS24040435-01	SAMP	ZZZZZZZZZZ	F041625.D	04/16/24	1
20:27	HS24040436-01	SAMP	ZZZZZZZZZZ	F041626.D	04/16/24	1
20:49	HS24040505-01	SAMP	ZZZZZZZZZZ	F041627.D	04/16/24	10000
21:11	HS24040786-01	SAMP	ZZZZZZZZZZ	F041628.D	04/16/24	1
21:33	HS24040905-01	SAMP	ZZZZZZZZZZ	F041629.D	04/16/24	1
21:55	HS24040905-03	SAMP	ZZZZZZZZZZ	F041630.D	04/16/24	1
22:17	HS24040905-04	SAMP	ZZZZZZZZZZ	F041631.D	04/16/24	1
22:39	HS24040905-04MS	MS	ZZZZZZMS	F041632.D	04/16/24	1
23:02	HS24040905-04MSD	MSD	ZZZZZZMSD	F041633.D	04/16/24	1
23:24	CCV_END	CCV_END	CCV_END	F041634.D	04/16/24	1

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RawData

<textMethods>

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041601B.D Page 1
Report Date: 16-Apr-2024 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041601B.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-APR-2024 11:14
Operator : FT Inst ID: voa11.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\bfb.m
Meth Date : 26-Sep-2023 10:41 firat.tast 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: NAHSTW7142

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.220	9.280	(0.000)	95	151744			0.00- 100.00	100.00
9.220	9.280	(0.000)	50	29280			15.00- 40.00	19.30
9.220	9.280	(0.000)	75	80024			30.00- 60.00	52.74
9.220	9.280	(0.000)	96	10327			5.00- 9.00	6.81
9.220	9.280	(0.000)	173	833			0.00- 2.00	0.67
9.220	9.280	(0.000)	174	124792			50.00- 0.00	82.24
9.220	9.280	(0.000)	175	9474			5.00- 9.00	7.59
9.220	9.280	(0.000)	176	119312			95.00- 101.00	95.61
9.220	9.280	(0.000)	177	8273			5.00- 9.00	6.93

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.30
75	30.00 - 60.00% of mass 95	52.74
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.55 (0.67)
174	Greater than 50.00% of mass 95	82.24
175	5.00 - 9.00% of mass 174	6.24 (7.59)
176	95.00 - 101.00% of mass 174	78.63 (95.61)
177	5.00 - 9.00% of mass 176	5.45 (6.93)

Data File: F041601B.D
Spectrum: Scan 2301 (9.21)
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1730	64.10	1045	91.90	5028	139.90	182
37.00	7586	65.10	699	93.00	7282	140.90	1769
38.00	6183	66.80	326	94.00	19256	141.80	258
39.00	2424	68.00	16496	95.00	151744	142.80	2047
40.00	700	69.00	15599	96.00	10327	144.80	247
44.00	1412	69.90	1250	96.90	215	145.80	230
45.00	1438	72.00	728	103.90	867	147.70	482
45.80	187	73.00	7405	104.70	381	149.60	255
47.00	1428	74.00	27576	105.80	616	154.90	590
48.00	1102	75.00	80024	110.60	243	156.90	271
49.00	5654	76.00	6934	112.80	190	158.60	254
50.00	29280	77.00	778	115.00	170	160.80	207
51.00	8717	77.90	700	115.90	954	171.80	898
51.90	700	78.90	6859	116.90	1149	172.90	833
54.90	495	79.90	1695	117.80	816	173.90	124792
56.00	2226	80.90	6887	118.90	938	174.90	9474
57.00	4754	81.90	1544	127.70	460	175.90	119312
58.10	350	82.80	156	128.90	360	176.90	8273
60.00	1551	86.00	172	129.80	496		
61.00	7983	87.00	5515	130.90	221		
62.00	8150	88.00	5381	134.80	390		
63.00	6072	90.80	823	136.80	427		

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041601.d Page 1

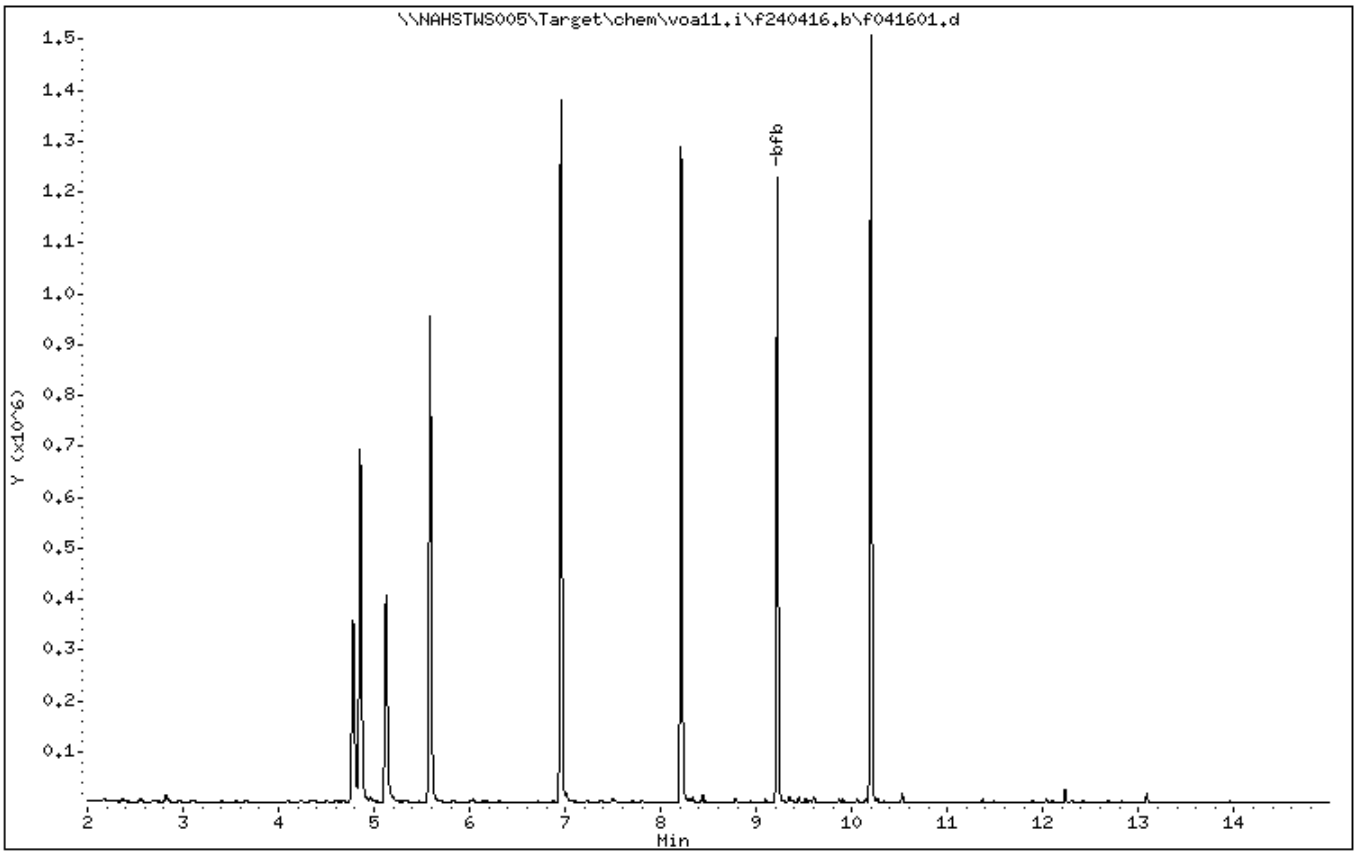
Date : 16-APR-2024 11:14

Client ID: BFB Instrument: voa11.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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InstruID : voa11.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041602.D Page 1
Report Date: 22-Apr-2024 09:34

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041602.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 16-APR-2024 11:36
Operator : FT Inst ID: voa11.i
Smp Info : VSTD00.25;VSTD00.25;1;1;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:34 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:33 Cal File: F041610.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

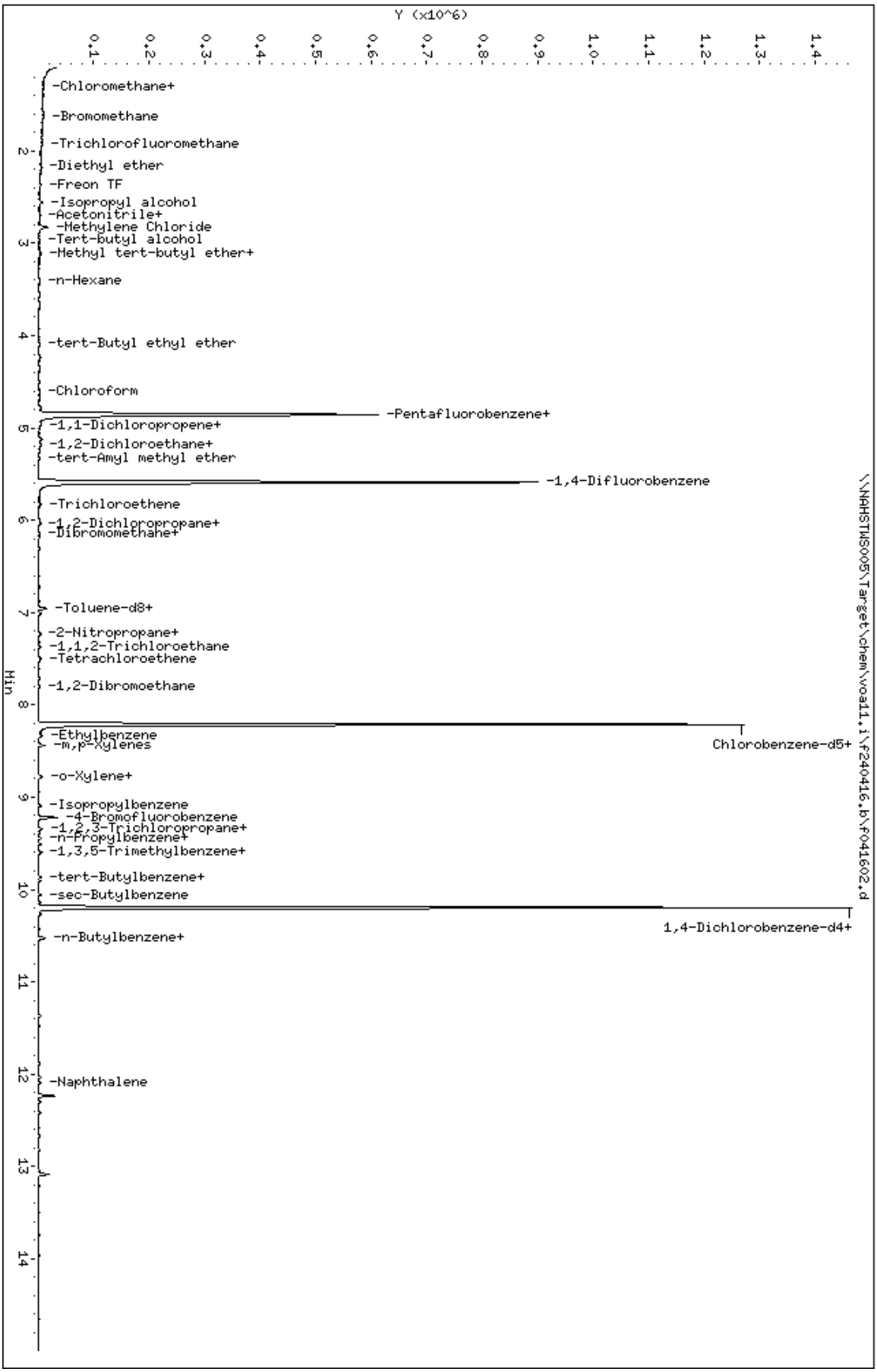
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.856	4.856	(1.000)	395969	50.0000	
	3 Chloromethane	50	1.306	1.306	(0.269)	3577	0.25000	0.46(a)
	12 Isobutyl Alcohol	43	4.845	4.845	(0.998)	980	5.00000	1.23(Ta)
	13 Acetonitrile	39	2.701	2.701	(0.556)	1166	2.50000	13.45
	14 Allyl Chloride	41	2.694	2.694	(0.555)	3205	0.25000	2.54
	17 Methylene Chloride	84	2.828	2.828	(0.582)	7635	0.25000	1.49(a)
	18 Methyl tert-butyl ether	73	3.121	3.121	(0.643)	1617	0.25000	3.50
$	30 Dibromofluoromethane	113	4.778	4.778	(0.984)	2567	0.25000	0.98(a)
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	4225	0.25000	0.99(a)
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	626795	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	4039	0.25000	0.26(a)
	38 Trichloroethene	130	5.831	5.831	(1.044)	1106	0.25000	0.24(a)
	43 2-Nitropropane	43	7.229	7.229	(1.489)	731	0.25000	0.17(a)
*	47 Chlorobenzene-d5	117	8.212	8.212	(1.000)	570490	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	7917	0.25000	(a)
	50 Toluene	91	7.016	7.016	(0.854)	2833	0.25000	0.88(a)
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	717	0.25000	1.41
	58 1-Chlorohexane	55	8.208	8.208	(1.469)	6037	0.25000	1.33
	59 Chlorobenzene	112	8.234	8.234	(1.003)	3088	0.25000	0.25(a)
	62 m,p-Xylenes	106	8.437	8.437	(1.027)	2287	0.50000	0.60(a)

63 o-Xylene	106	8.778	8.778 (1.069)	1114	0.25000	1.38
64 Styrene	104	8.785	8.785 (1.070)	1392	0.25000	1.13

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	67 Isopropylbenzene	105	9.093	9.093	(1.107)	2976	0.25000	1.35
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	8051	0.25000	1.65
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	303651	50.0000	
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	3376	0.25000	1.55
	74 Bromobenzene	156	9.344	9.344	(0.916)	920	0.25000	2.02
	75 1,3,5-Trimethylbenzene	105	9.591	9.591	(0.940)	1761	0.25000	1.60
	76 2-Chlorotoluene	91	9.512	9.512	(0.933)	2001	0.25000	1.46
	77 4-Chlorotoluene	91	9.606	9.606	(0.942)	2327	0.25000	1.02
	78 tert-Butylbenzene	119	9.869	9.869	(0.968)	1645	0.25000	2.21
	79 1,2,4-Trimethylbenzene	105	9.906	9.906	(0.971)	1749	0.25000	1.81
	81 sec-Butylbenzene	105	10.060	10.060	(0.986)	3085	0.25000	2.11
	82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	2288	0.25000	2.05
	87 n-Butylbenzene	91	10.525	10.525	(1.032)	3798	0.25000	2.46
	92 Naphthalene	128	12.095	12.095	(1.186)	2569	0.25000	1.85
	141 Cyclohexane	56	4.856	4.856	(1.000)	8835	0.25000	1.15(a)
	135 1,4-Dioxane	88	6.195	6.195	(1.276)	47	5.00000	11.46(M)
	136 n-Hexane	57	3.402	3.402	(0.701)	779	0.25000	1.60(T)
	148 Tert-butyl alcohol	59	2.971	2.971	(0.612)	690	5.00000	29.63
	149 Isopropyl alcohol	45	2.577	2.577	(0.531)	643	5.00000	25.80(T)
	166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	2485	0.25000	1.72
	174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	1082	0.25000	4.13(T)
	175 tert-Butyl ethyl ether	59	4.096	4.096	(0.843)	1563	0.25000	3.56(T)

QC Flag Legend

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



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Date : 16-APR-2024 11:36
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

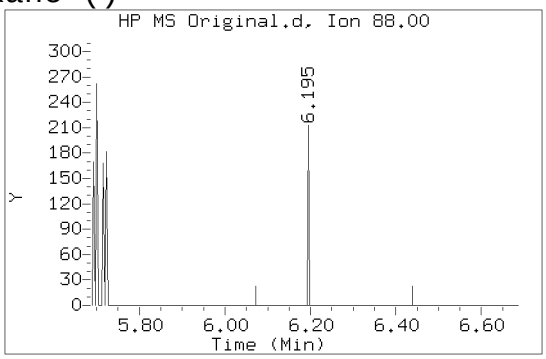
Data File : \\nahstws005\target\chem\voa11.i\f240416.b\f041602.d
Inj Date : 16-APR-2024 11:36
InstruID : voa11.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
88
AREA
47
HEIGHT
213
22-Apr-2024
09:34
salina
zaid



AFTER

MASS
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AREA
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HEIGHT
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22-Apr-2024
09:34
salina
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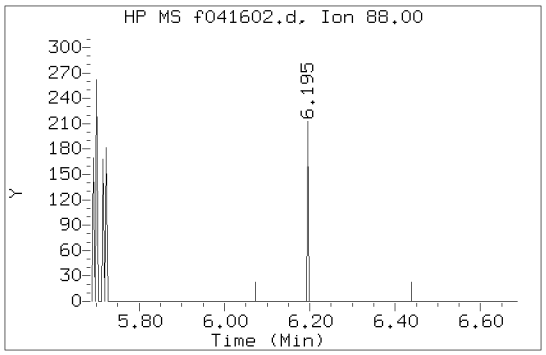

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22-Apr-2024
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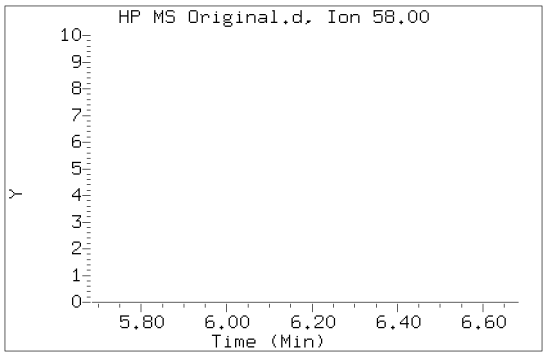

AFTER

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HEIGHT
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22-Apr-2024
09:34
salina
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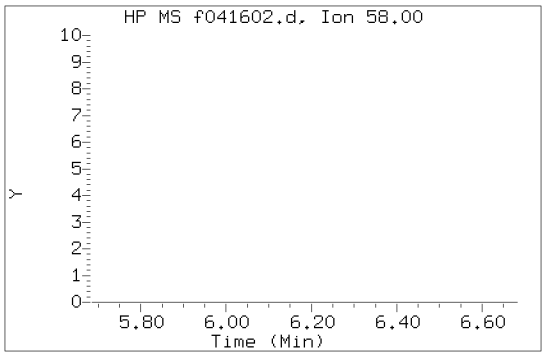


Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D Page 1
Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 16-APR-2024 11:58
Operator : FT Inst ID: voa11.i
Smp Info : VSTD00.5;VSTD00.5;1;2;
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:22 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 11:36 Cal File: F041602.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	406933	50.0000	
2	Dichlorodifluoromethane	85	1.175	1.175	(0.242)	2509	0.50000	0.56(a)
3	Chloromethane	50	1.306	1.306	(0.269)	5267	0.50000	0.67(a)
4	Propionitrile	54	4.343	4.343	(0.894)	4097	5.00000	3.98(a)
5	Vinyl Chloride	62	1.389	1.389	(0.286)	2510	0.50000	0.57(a)
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	3892	0.50000	0.56(a)
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	3852	0.50000	0.56(aM)
9	Acrolein	56	2.285	2.285	(0.471)	113	1.00000	3.39(M)
10	Acetone	43	2.424	2.424	(0.499)	2499	1.00000	5.87(M)
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	1766	0.50000	0.51(a)
12	Isobutyl Alcohol	43	5.246	5.246	(1.080)	1063	10.0000	2.20(TaM)
13	Acetonitrile	39	2.697	2.697	(0.555)	1137	5.00000	13.33
14	Allyl Chloride	41	2.697	2.697	(0.555)	3237	0.50000	2.54
15	Iodomethane	142	2.491	2.491	(0.513)	921	1.00000	12.63(T)
16	Acrylonitrile	53	3.080	3.080	(0.634)	913	1.00000	4.69
17	Methylene Chloride	84	2.825	2.825	(0.582)	6925	0.50000	1.29(a)
18	Methyl tert-butyl ether	73	3.125	3.125	(0.643)	2958	0.50000	3.63
19	Carbon Disulfide	76	2.555	2.555	(0.526)	10624	1.00000	1.01(a)
20	trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	1703	0.50000	0.45(a)
21	Vinyl Acetate	43	3.664	3.664	(0.755)	4800	1.00000	4.81(M)

22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	3040	0.50000	0.47(Ta)
24 2-Butanone	43	4.294	4.294 (0.884)	1119	1.00000	6.38(M)

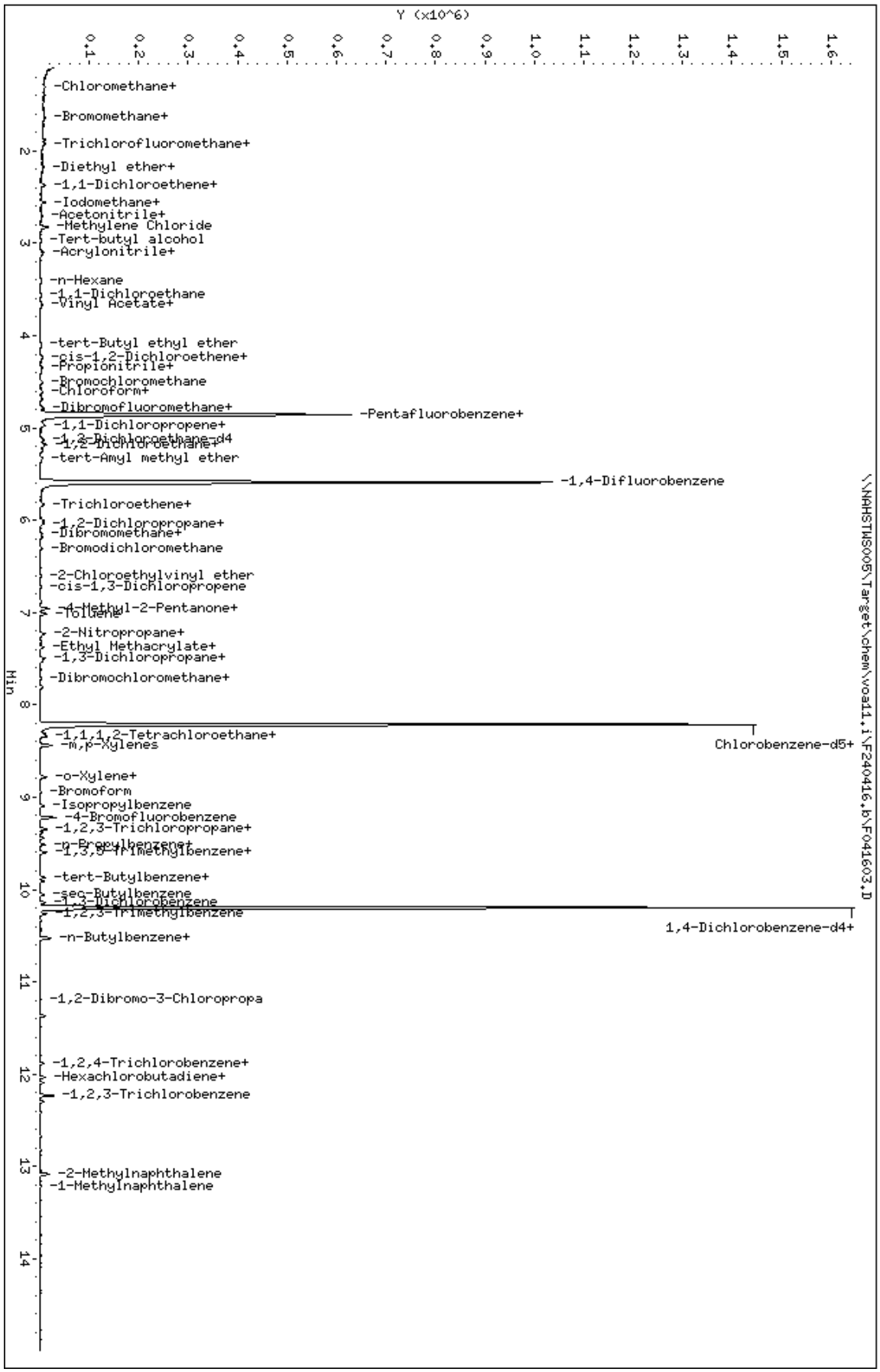
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.223	4.223	(0.870)	1579	0.50000	0.52(aM)
	26 2,2-Dichloropropane	77	4.223	4.223	(0.870)	1558	0.50000	3.50(M)
	27 cis-1,2-Dichloroethene	96	4.227	4.227	(0.870)	1732	0.50000	0.42(a)
	28 Chloroform	83	4.605	4.605	(0.948)	3817	0.50000	0.51(a)
	29 Bromochloromethane	128	4.500	4.500	(0.927)	1171	0.50000	0.52(a)
$	30 Dibromofluoromethane	113	4.785	4.785	(0.985)	3057	0.50000	1.09
	31 1,1,1-Trichloroethane	97	4.785	4.785	(0.985)	2480	0.50000	0.42(a)
	32 1,1-Dichloropropene	75	4.976	4.976	(0.891)	2588	0.50000	0.43(a)
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	3796	0.50000	0.48(a)
	34 Carbon Tetrachloride	117	4.958	4.958	(0.887)	2338	0.50000	0.37(a)
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	5570	0.50000	1.24
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	751861	50.0000	
	37 Benzene	78	5.175	5.175	(0.926)	8687	0.50000	0.47(a)
	38 Trichloroethene	130	5.831	5.831	(1.044)	2722	0.50000	0.49(a)
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	2528	0.50000	0.40(aM)
	40 Methyl Methacrylate	41	6.184	6.184	(1.273)	1732	0.50000	3.32(M)
	41 2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	934	1.00000	6.35(M)
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	2146	0.50000	0.45(a)
	43 2-Nitropropane	43	7.233	7.233	(1.489)	2534	0.50000	0.59(a)
	44 Dibromomethane	93	6.150	6.150	(1.101)	1543	0.50000	0.44(a)
	45 4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	1737	1.00000	1.94(a)
	46 cis-1,3-Dichloropropene	75	6.723	6.723	(1.203)	1801	0.50000	3.06(M)
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	670887	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	10541	0.50000	(a)
	49 Ethyl Methacrylate	69	7.316	7.316	(1.309)	1136	0.50000	1.69
	50 Toluene	91	7.012	7.012	(0.854)	6158	0.50000	1.02
	51 trans-1,3-Dichloropropene	75	7.226	7.226	(1.293)	1234	0.50000	1.94(M)
	52 2-Hexanone	43	7.233	7.233	(0.880)	2534	1.00000	1.00(a)
	53 1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	1591	0.50000	0.41(a)
	54 1,3-Dichloropropane	76	7.518	7.518	(0.915)	2986	0.50000	0.39(a)
	55 Dibromochloromethane	129	7.713	7.713	(0.939)	1391	0.50000	3.28
	56 Tetrachloroethene	164	7.496	7.496	(0.912)	1833	0.50000	0.40(a)
	57 1,2-Dibromoethane	107	7.810	7.810	(0.951)	1472	0.50000	1.53
	58 1-Chlorohexane	55	8.215	8.215	(1.470)	7722	0.50000	1.44
	59 Chlorobenzene	112	8.234	8.234	(1.002)	7275	0.50000	0.50(a)
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	1866	0.50000	0.41(a)
	61 Ethylbenzene	106	8.339	8.339	(1.015)	2318	0.50000	0.36(a)
	62 m,p-Xylenes	106	8.436	8.436	(1.027)	5345	1.00000	0.91(a)
	63 o-Xylene	106	8.778	8.778	(1.068)	2130	0.50000	1.48
	64 Styrene	104	8.789	8.789	(1.070)	2978	0.50000	1.22
	66 Bromoform	173	8.939	8.939	(1.088)	924	0.50000	0.97(aM)
	67 Isopropylbenzene	105	9.096	9.096	(1.107)	4927	0.50000	1.41
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	8131	0.50000	1.44
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	353161	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	2235	0.50000	0.42(a)
	73 n-Propylbenzene	91	9.441	9.441	(0.926)	5364	0.50000	1.61
	74 Bromobenzene	156	9.340	9.340	(0.916)	1884	0.50000	2.15
	75 1,3,5-Trimethylbenzene	105	9.599	9.599	(0.941)	3465	0.50000	1.68
	76 2-Chlorotoluene	91	9.512	9.512	(0.933)	4360	0.50000	1.59
	77 4-Chlorotoluene	91	9.602	9.602	(0.942)	4225	0.50000	1.10
	78 tert-Butylbenzene	119	9.868	9.868	(0.968)	3714	0.50000	2.32
	79 1,2,4-Trimethylbenzene	105	9.906	9.906	(0.971)	4148	0.50000	1.92

81 sec-Butylbenzene	105	10.056	10.056 (0.986)	5077	0.50000	2.18
82 p-Isopropyltoluene	119	10.180	10.180 (0.998)	4483	0.50000	2.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	4141	0.50000	0.41(a)
84	1,4-Dichlorobenzene	146	10.221	10.221	(1.002)	6344	0.50000	0.55(a)
87	n-Butylbenzene	91	10.528	10.528	(1.032)	5230	0.50000	2.50
88	1,2-Dichlorobenzene	146	10.536	10.536	(1.033)	4247	0.50000	0.41(a)
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	245	0.50000	1.31(M)
92	Naphthalene	128	12.095	12.095	(1.186)	4265	0.50000	1.93
93	1,2,3-Trichlorobenzene	180	12.294	12.294	(1.205)	2261	0.50000	0.52(a)
146	Methyl acetate	43	2.735	2.735	(0.563)	2545	0.50000	0.63(aM)
138	Freon TF	101	2.375	2.375	(0.489)	2174	0.50000	0.52(a)
139	Diethyl ether	59	2.172	2.172	(0.447)	2692	0.50000	0.55(Ta)
141	Cyclohexane	56	4.856	4.856	(1.000)	10403	0.50000	1.39(a)
132	n-Butanol	56	5.839	5.839	(1.202)	378	10.0000	38.09(M)
131	Methyl Acrylate	55	4.392	4.392	(0.904)	1048	0.50000	2.63(M)
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	1048	0.50000	4.67(M)
135	1,4-Dioxane	88	6.195	6.195	(1.276)	146	10.0000	13.86(M)
136	n-Hexane	57	3.406	3.406	(0.701)	1271	0.50000	1.71(T)
142	Tetrahydrofuran	42	4.583	4.583	(0.944)	726	1.00000	2.92(M)
148	Tert-butyl alcohol	59	2.971	2.971	(0.612)	1662	10.0000	34.43
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	1340	10.0000	30.16(T)
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	2936	10.0000	29.93
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	5207	0.50000	1.86
170	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.165)	2461	0.50000	0.42(a)
172	tert-Butyl formate	59	5.246	5.246	(1.080)	1185	1.00000	3.01(M)
174	tert-Amyl methyl ether	73	5.329	5.329	(1.097)	2628	0.50000	4.29
175	tert-Butyl ethyl ether	59	4.092	4.092	(0.843)	2098	0.50000	3.61(T)
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	845	0.50000	3.36
156	Diisopropyl ether	45	3.664	3.664	(0.755)	3402	0.50000	1.56(M)
180	1-Methylnaphthalene	142	13.216	13.216	(1.296)	1133	0.50000	2.35
130	Ethyl Acetate	43	4.373	4.373	(0.900)	3016	0.50000	3.08(aM)
176	tert-Amyl alcohol	59	5.246	5.246	(1.080)	1185	10.0000	30.70

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Date : 16-APR-2024 11:58
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D

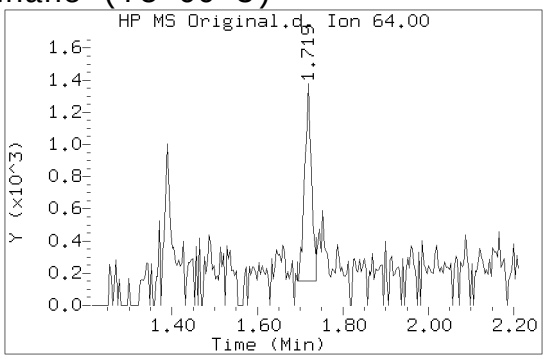
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

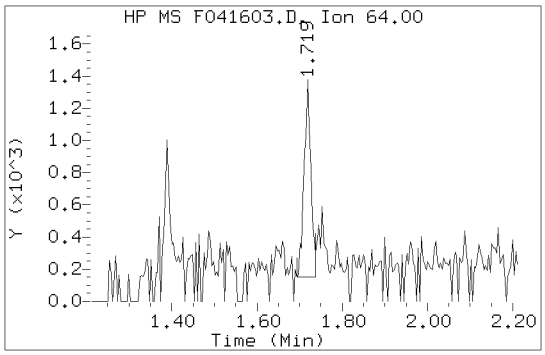
BEFORE

MASS
64
AREA
1369
HEIGHT
1226
22-Apr-2024
09:21
salina
zaid



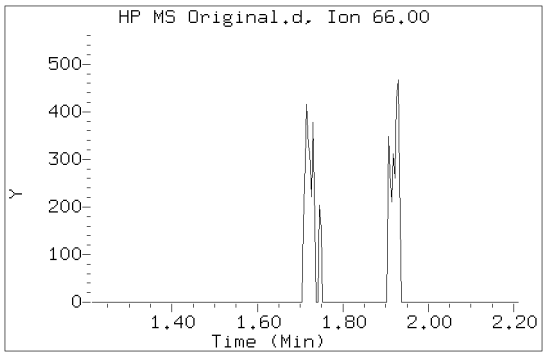
AFTER

MASS
64
AREA
1369
HEIGHT
1226
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
66
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
66
AREA
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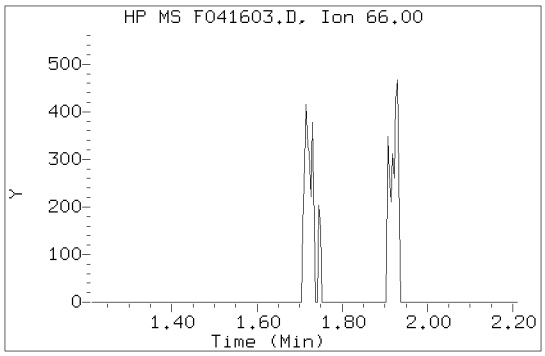
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

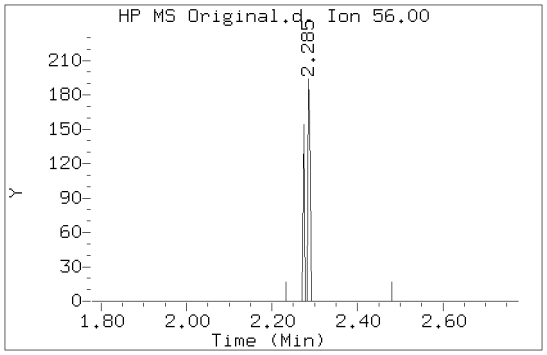


Acrolein (107-02-8)

Reason Code:

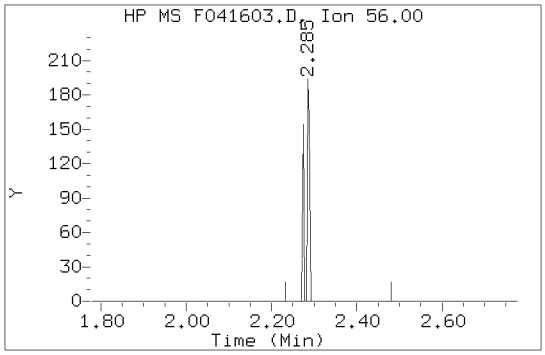
BEFORE

MASS
56
AREA
113
HEIGHT
194
22-Apr-2024
09:21
salina
zaid



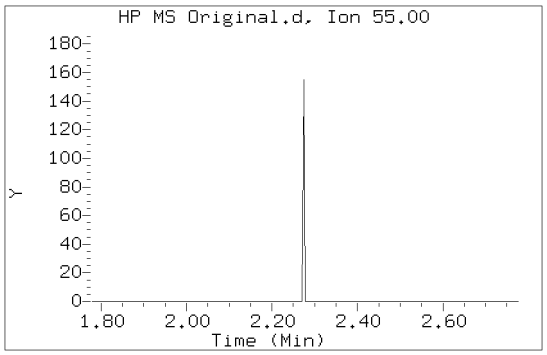
AFTER

MASS
56
AREA
113
HEIGHT
194
22-Apr-2024
09:21
salina
zaid



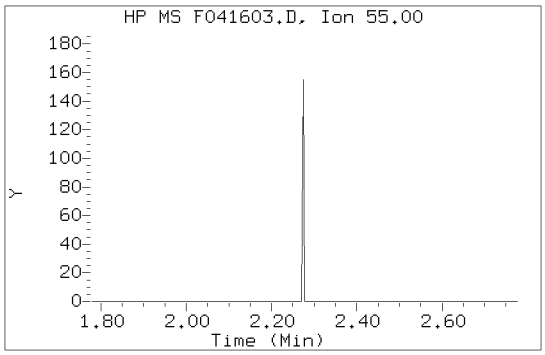
BEFORE

MASS
55
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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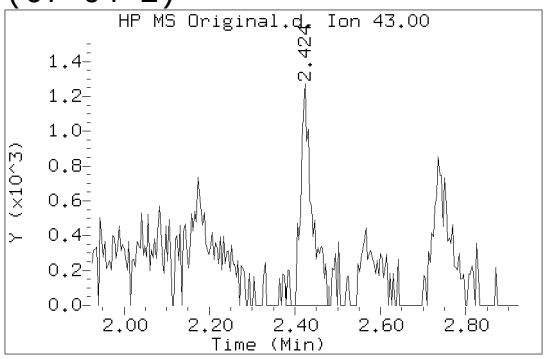
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Acetone (67-64-1)

Reason Code:

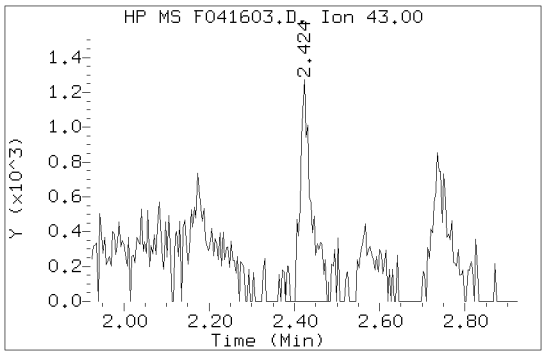
BEFORE

MASS
43
AREA
2499
HEIGHT
1273
22-Apr-2024
09:21
salina
zaid



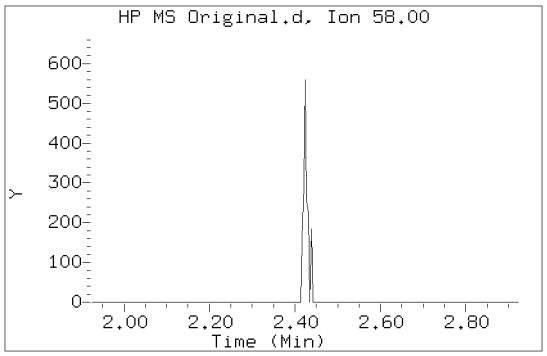
AFTER

MASS
43
AREA
2499
HEIGHT
1273
22-Apr-2024
09:21
salina
zaid



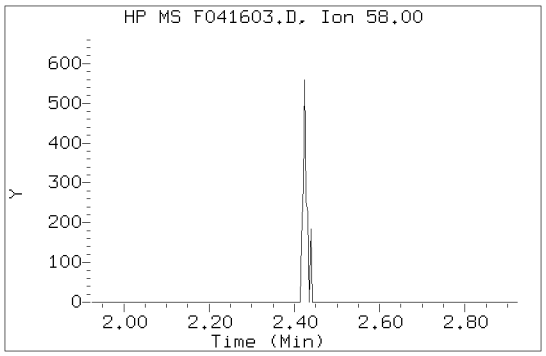
BEFORE

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

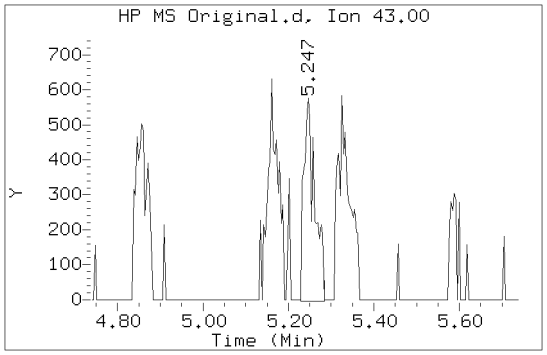


Isobutyl Alcohol (78-83-1)

Reason Code:

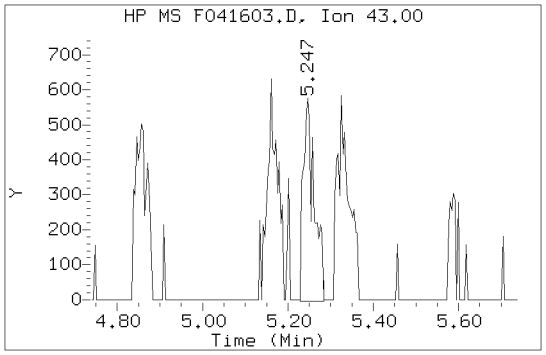
BEFORE

MASS
43
AREA
1063
HEIGHT
580
22-Apr-2024
09:21
salina
zaid



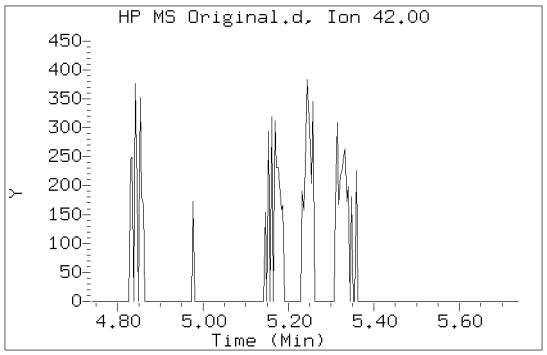
AFTER

MASS
43
AREA
1063
HEIGHT
580
22-Apr-2024
09:21
salina
zaid



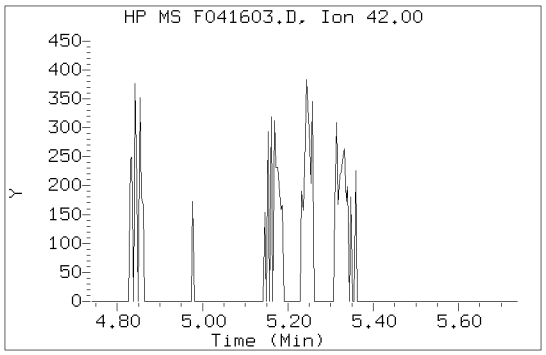
BEFORE

MASS
42
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
42
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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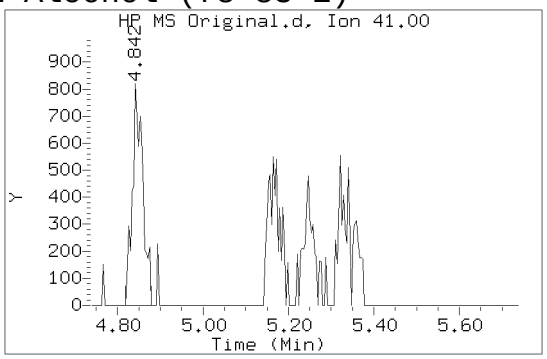
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Isobutyl Alcohol (78-83-1)

Reason Code:

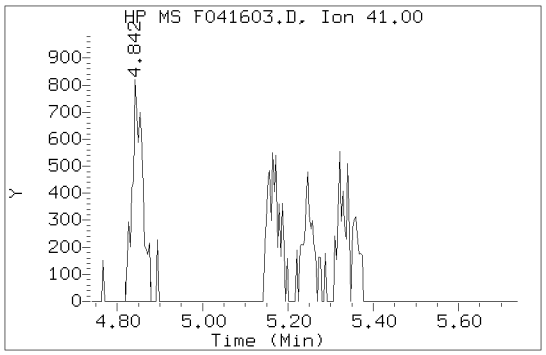
BEFORE

MASS
41
AREA
1381
HEIGHT
820
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
1381
HEIGHT
820
22-Apr-2024
09:21
salina
zaid

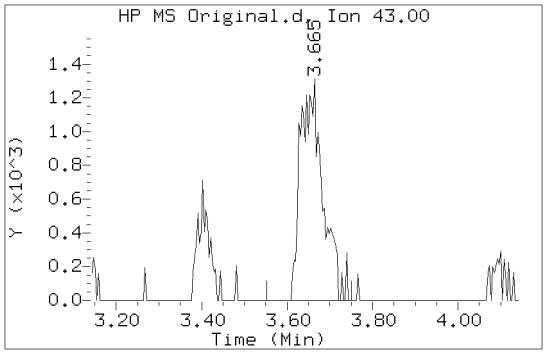


Vinyl Acetate (108-05-4)

Reason Code:

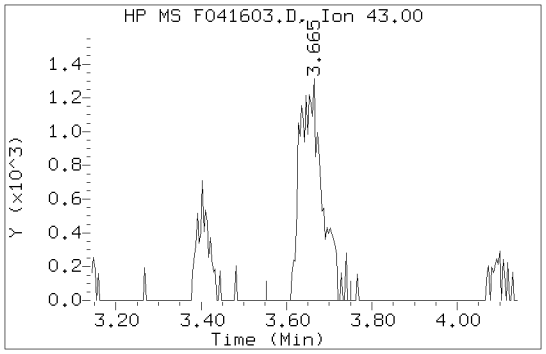
BEFORE

MASS
43
AREA
4800
HEIGHT
1314
22-Apr-2024
09:21
salina
zaid



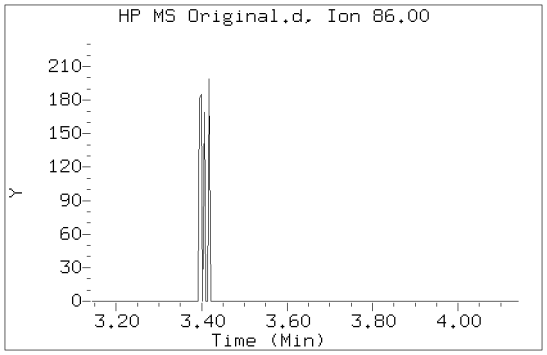
AFTER

MASS
43
AREA
4800
HEIGHT
1314
22-Apr-2024
09:21
salina
zaid



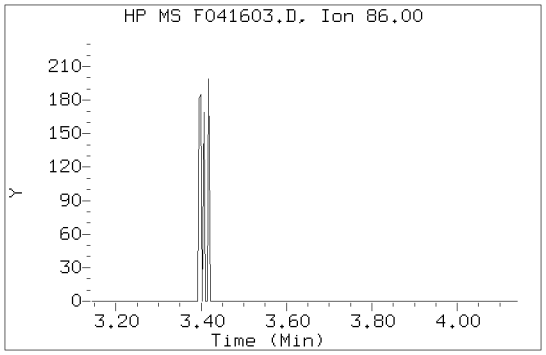
BEFORE

MASS
86
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

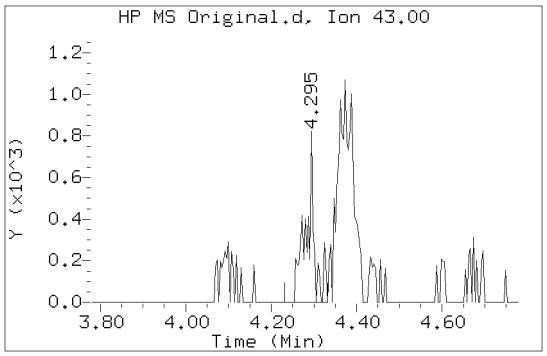


2-Butanone (78-93-3)

Reason Code:

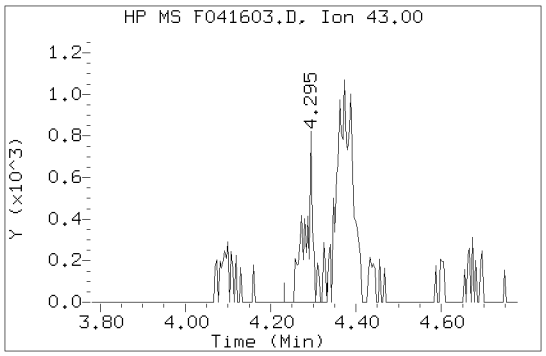
BEFORE

MASS
43
AREA
1119
HEIGHT
822
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
43
AREA
1119
HEIGHT
822
22-Apr-2024
09:21
salina
zaid



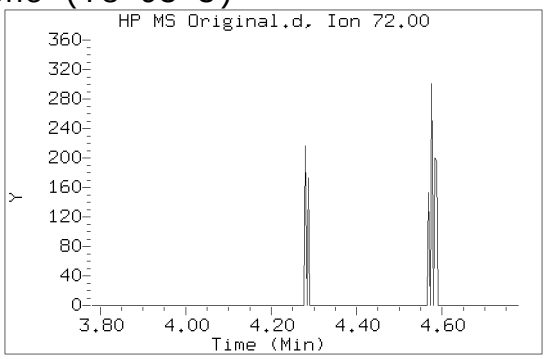
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
72
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
72
AREA
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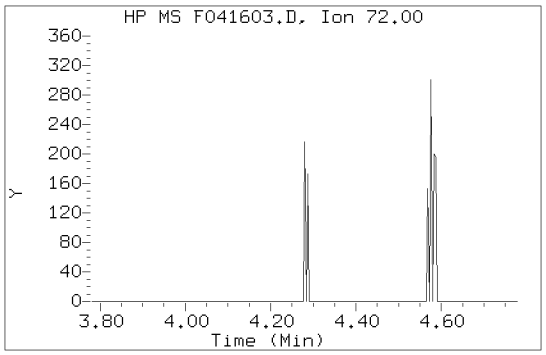
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

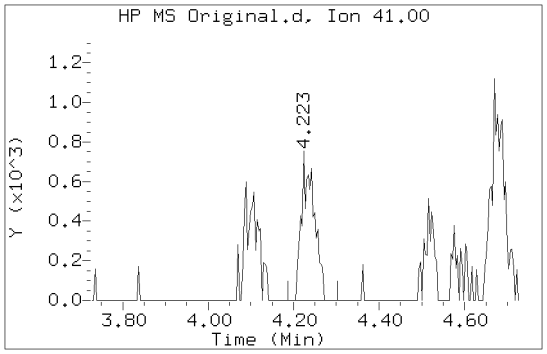


Methacrylonitrile (126-98-7)

Reason Code:

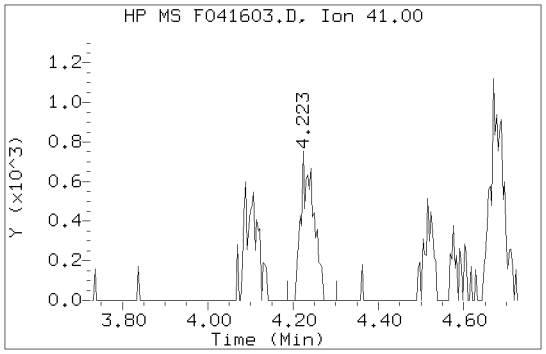
BEFORE

MASS
41
AREA
1579
HEIGHT
754
22-Apr-2024
09:21
salina
zaid



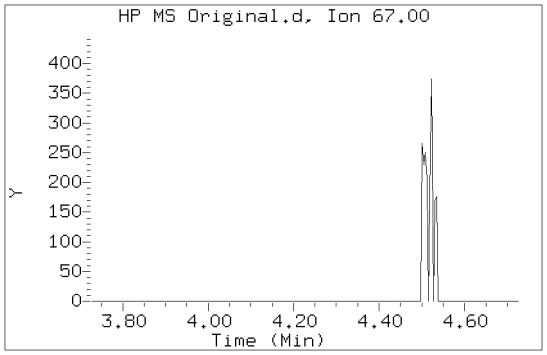
AFTER

MASS
41
AREA
1579
HEIGHT
754
22-Apr-2024
09:21
salina
zaid



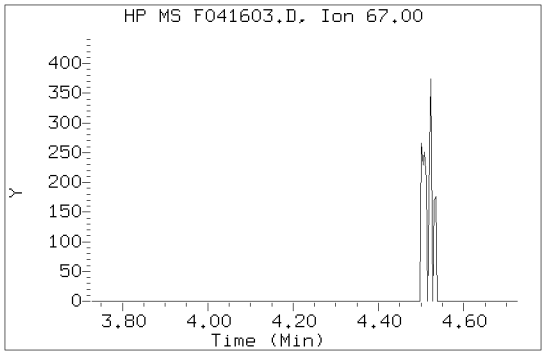
BEFORE

MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



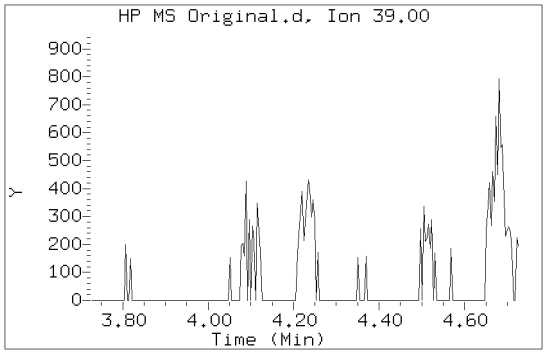
AFTER

MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



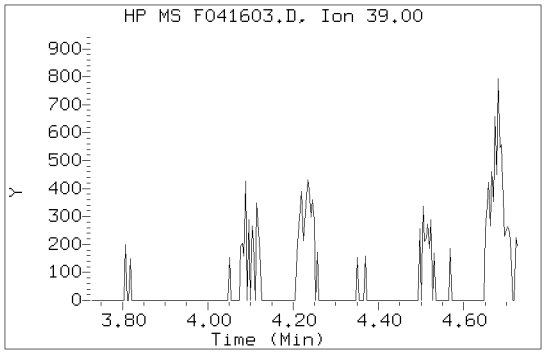
BEFORE

MASS
39
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



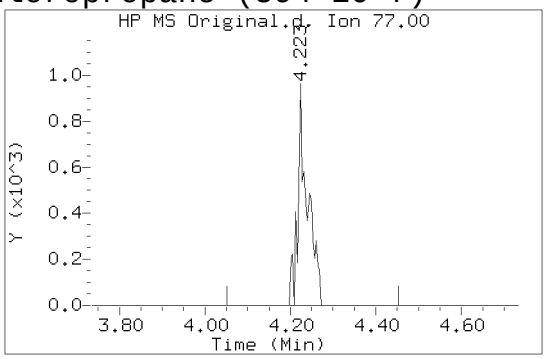
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

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

Reason Code:

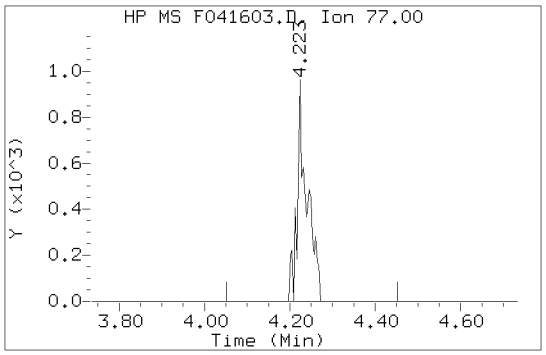
BEFORE

MASS
77
AREA
1558
HEIGHT
963
22-Apr-2024
09:21
salina
zaid



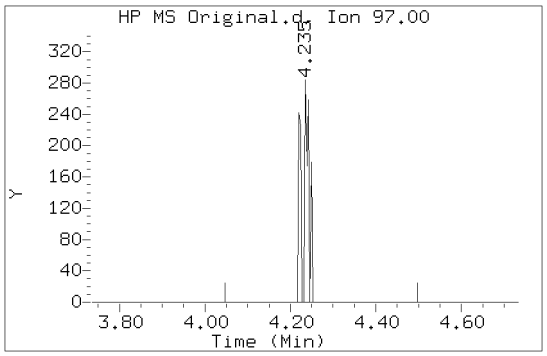
AFTER

MASS
77
AREA
1558
HEIGHT
963
22-Apr-2024
09:21
salina
zaid



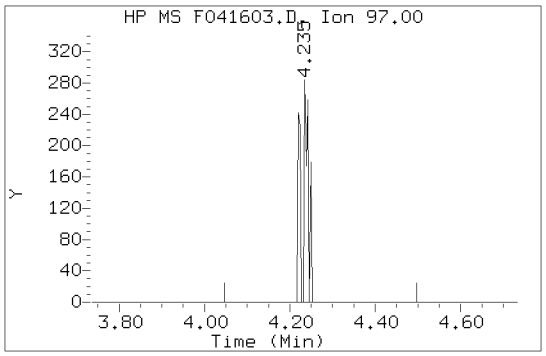
BEFORE

MASS
97
AREA
306
HEIGHT
284
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
97
AREA
306
HEIGHT
284
22-Apr-2024
09:21
salina
zaid

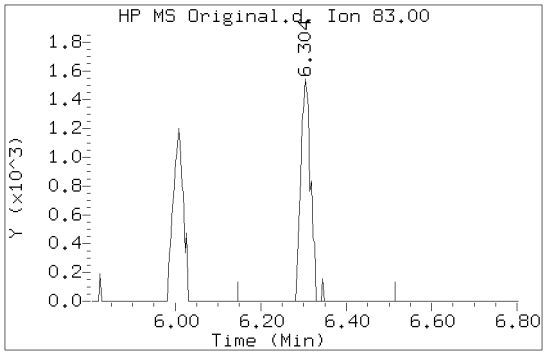


Bromodichloromethane (75-27-4)

Reason Code:

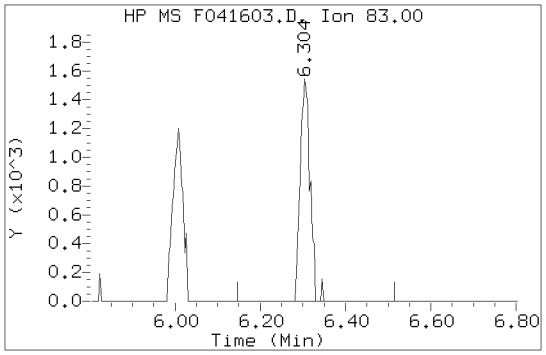
BEFORE

MASS
83
AREA
2528
HEIGHT
1544
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
83
AREA
2528
HEIGHT
1544
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
85
AREA
1604
HEIGHT
1037
22-Apr-2024
09:21
salina
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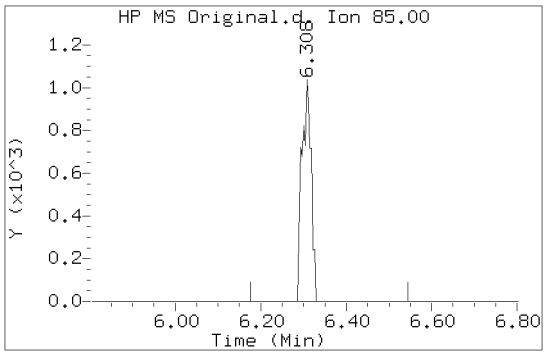
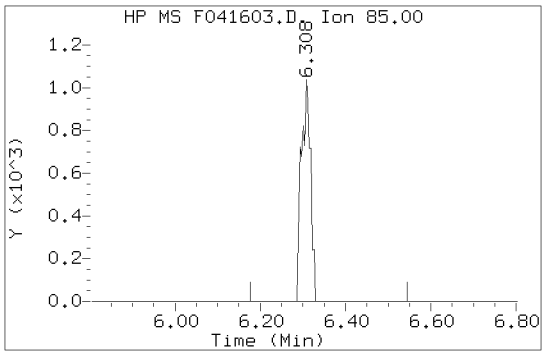


AFTER

MASS
85
AREA
1604
HEIGHT
1037
22-Apr-2024
09:21
salina
zaid



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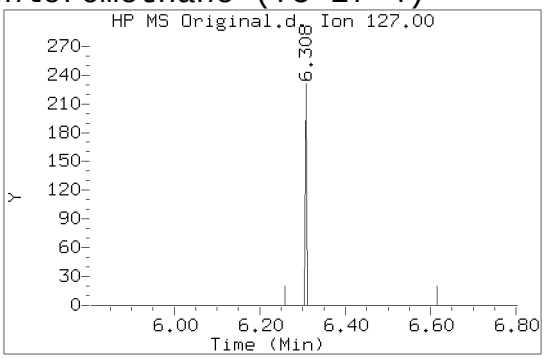
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

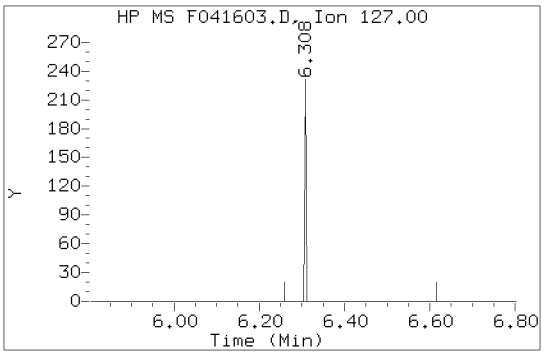
BEFORE

MASS
127
AREA
51
HEIGHT
231
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
127
AREA
51
HEIGHT
231
22-Apr-2024
09:21
salina
zaid

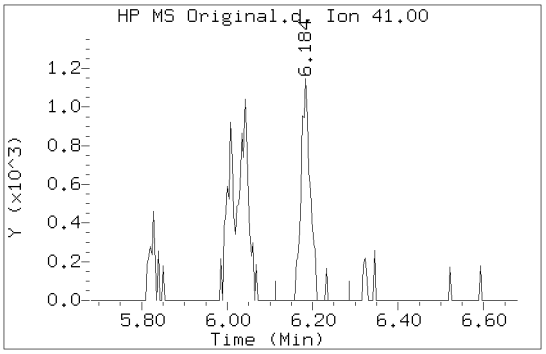


Methyl Methacrylate (80-62-6)

Reason Code:

BEFORE

MASS
41
AREA
1732
HEIGHT
1147
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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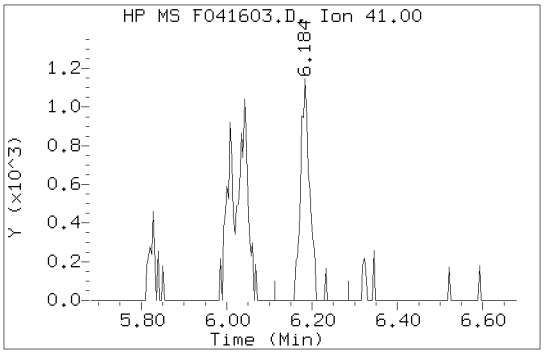
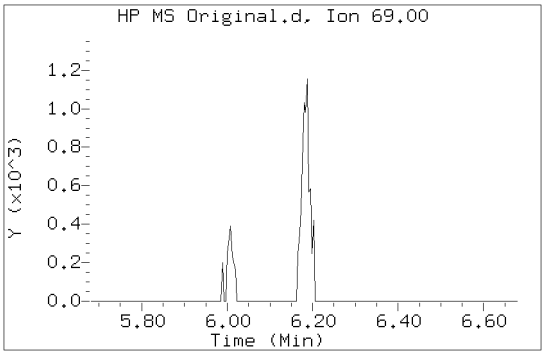
AREA
1732
HEIGHT
1147
22-Apr-2024
09:21
salina
zaid



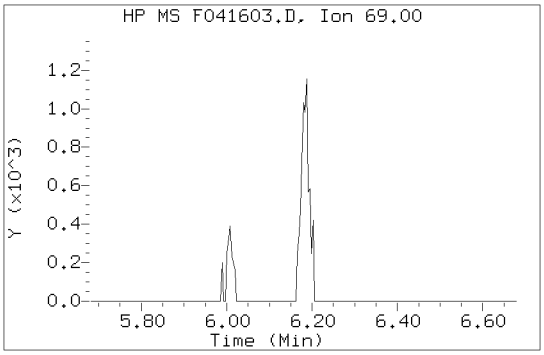
BEFORE

MASS
69
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
69
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE

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HEIGHT
0
22-Apr-2024
09:21
salina
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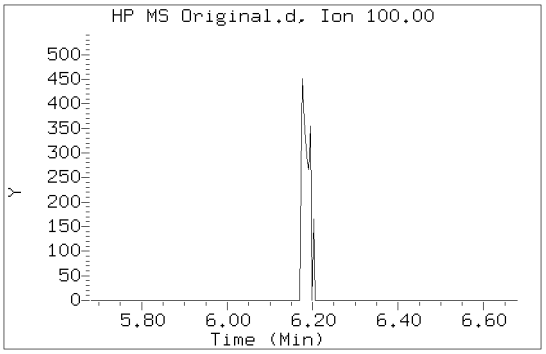
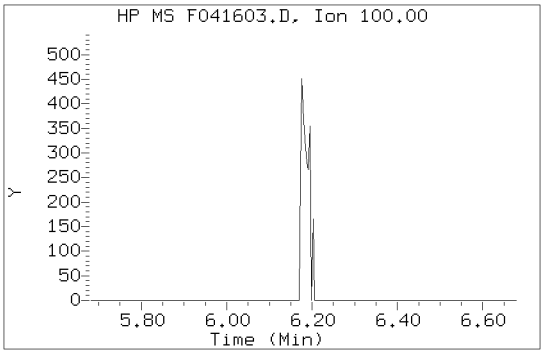


AFTER

MASS
100
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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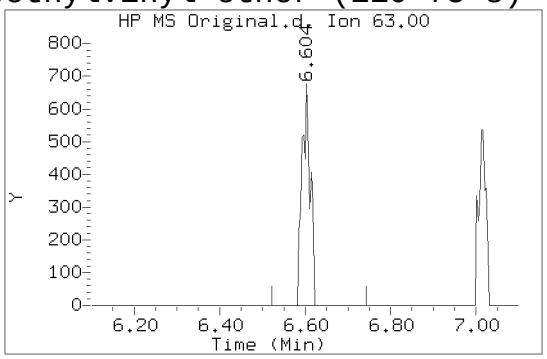
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

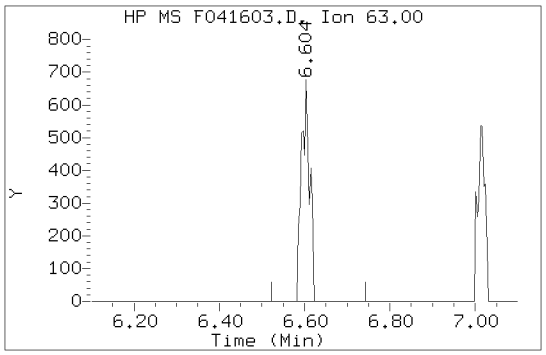
BEFORE

MASS
63
AREA
934
HEIGHT
677
22-Apr-2024
09:21
salina
zaid



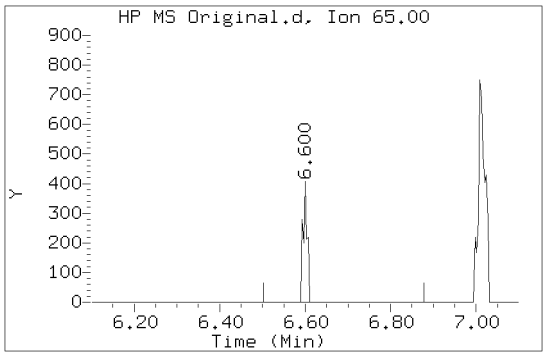
AFTER

MASS
63
AREA
934
HEIGHT
677
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
65
AREA
296
HEIGHT
408
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
296
HEIGHT
408
22-Apr-2024
09:21
salina
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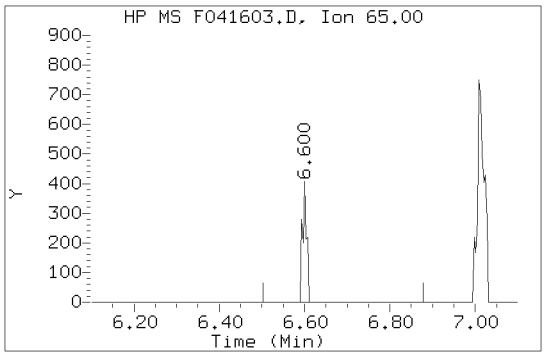
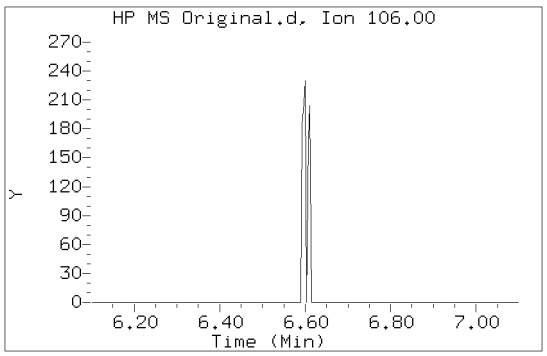


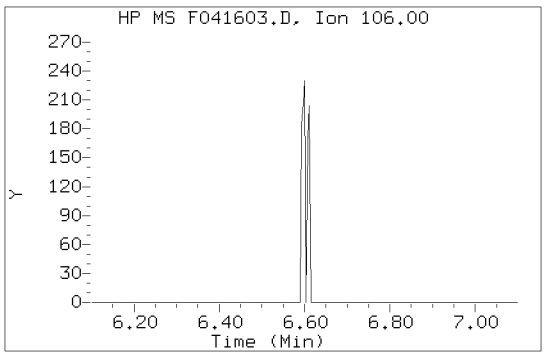
BEFORE

MASS
106
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

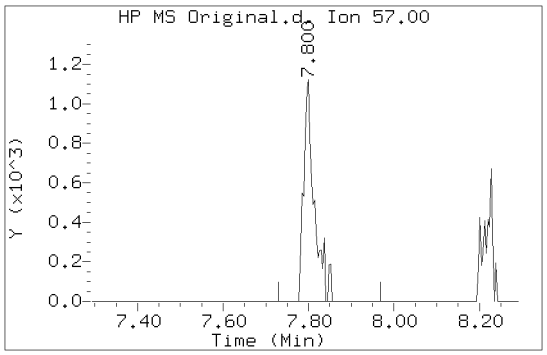


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

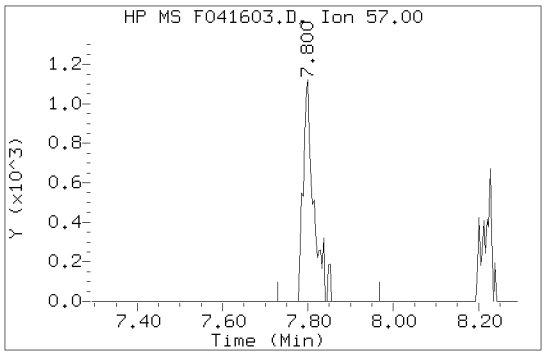
BEFORE

MASS
57
AREA
1977
HEIGHT
1122
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
57
AREA
1977
HEIGHT
1122
22-Apr-2024
09:21
salina
zaid



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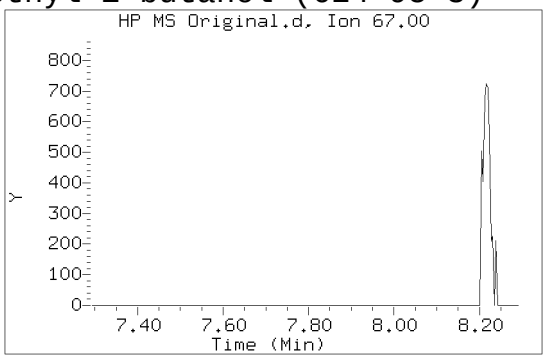
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

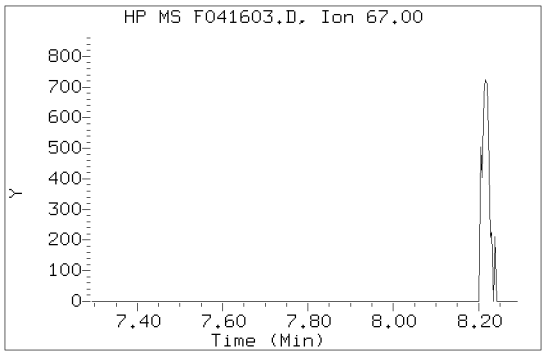
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
56
AREA
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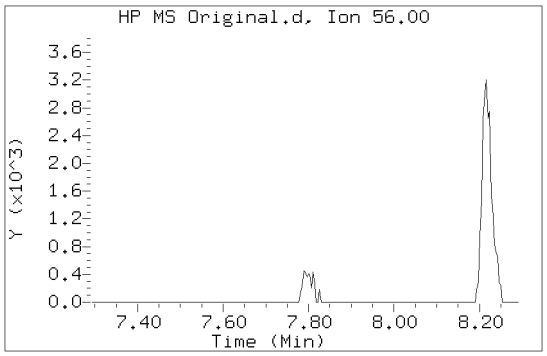
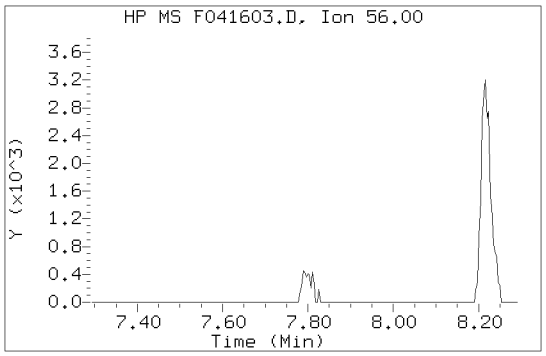
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



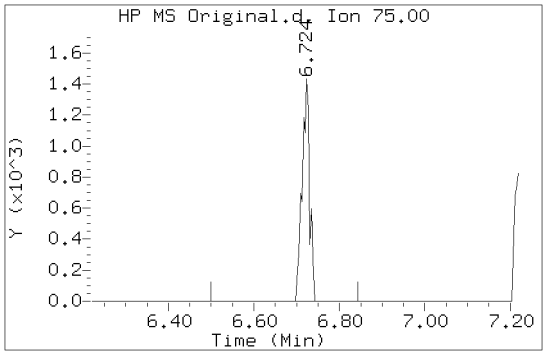
AFTER
MASS
56
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



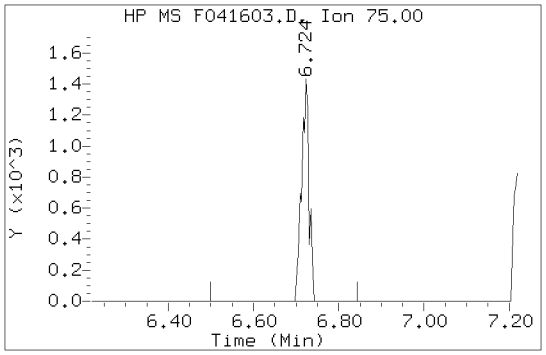
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

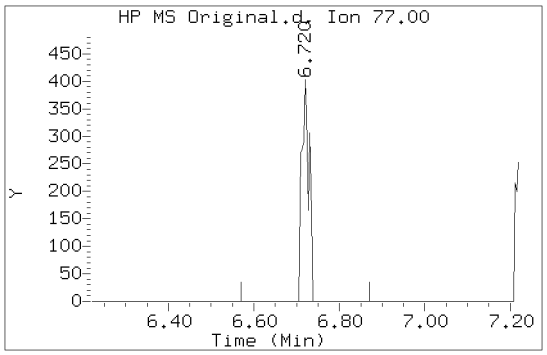
BEFORE
MASS
75
AREA
1801
HEIGHT
1433
22-Apr-2024
09:21
salina
zaid



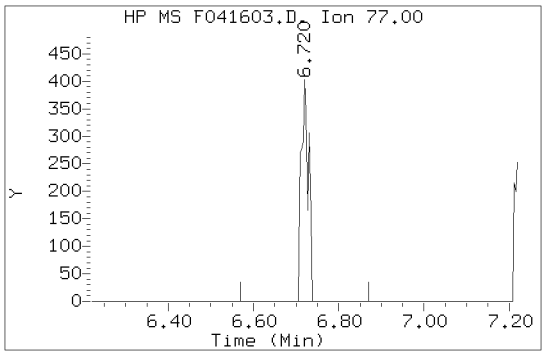
AFTER
MASS
75
AREA
1801
HEIGHT
1433
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
77
AREA
497
HEIGHT
403
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
77
AREA
497
HEIGHT
403
22-Apr-2024
09:21
salina
zaid



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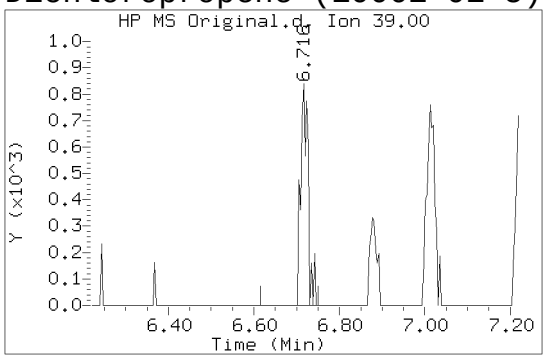
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

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

Reason Code:

BEFORE

MASS
39
AREA
1052
HEIGHT
840
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
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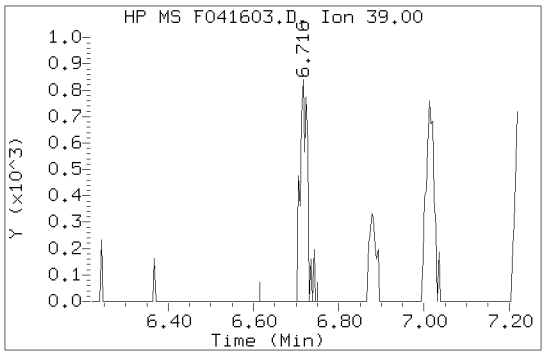
HEIGHT
840
22-Apr-2024
09:21
salina
zaid

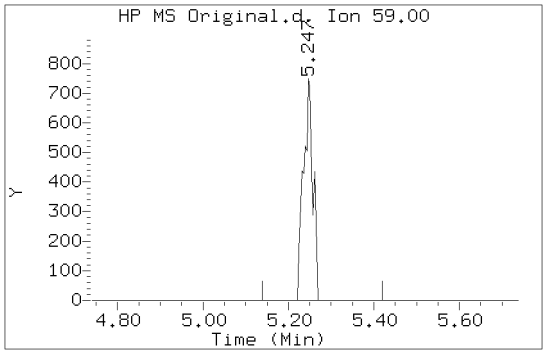


tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
AREA
1185
HEIGHT
749
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
59
AREA
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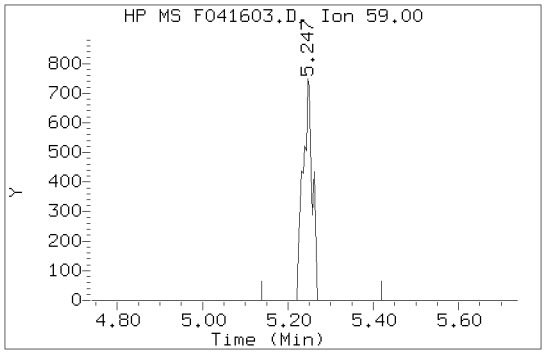
HEIGHT
749
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
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AREA
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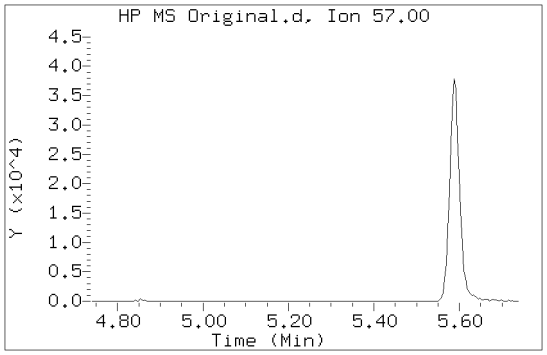
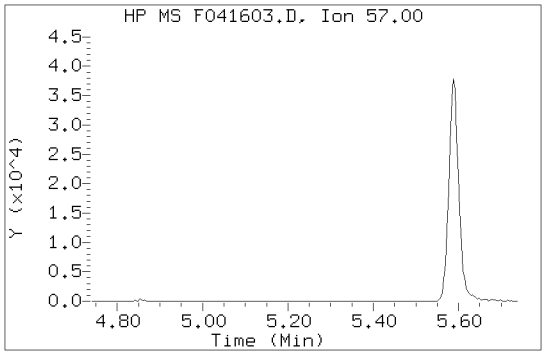
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
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AREA
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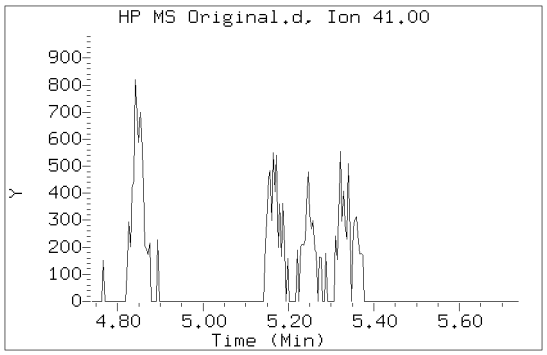
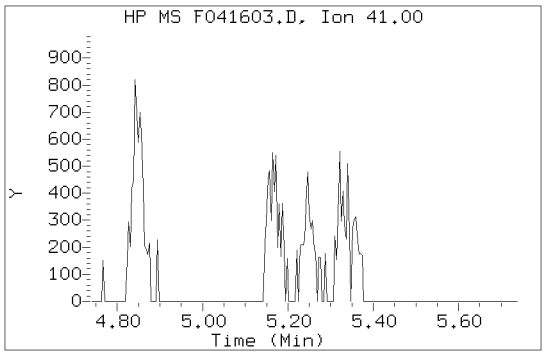
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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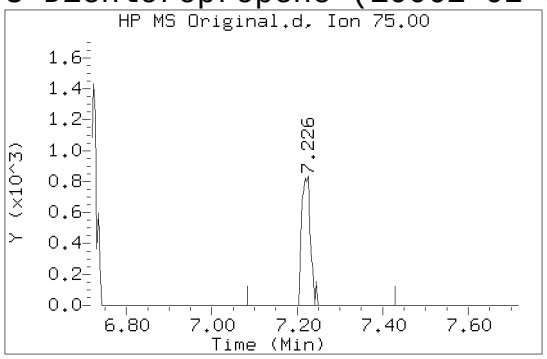
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

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

Reason Code:

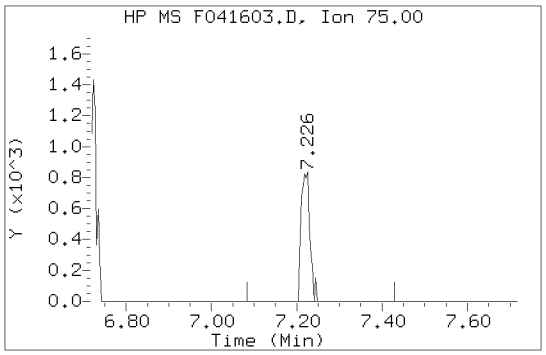
BEFORE

MASS
75
AREA
1234
HEIGHT
838
22-Apr-2024
09:21
salina
zaid



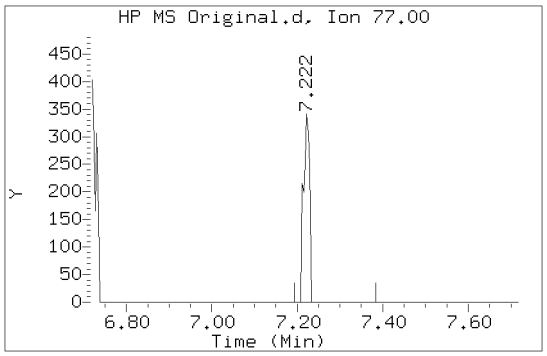
AFTER

MASS
75
AREA
1234
HEIGHT
838
22-Apr-2024
09:21
salina
zaid



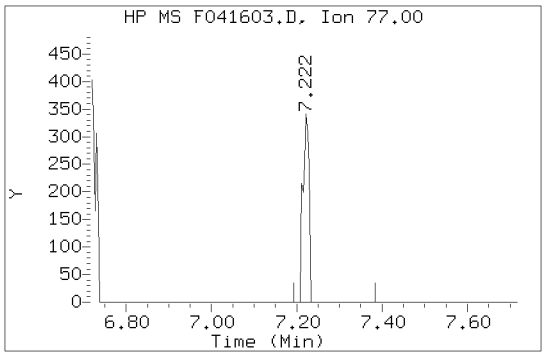
BEFORE

MASS
77
AREA
351
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



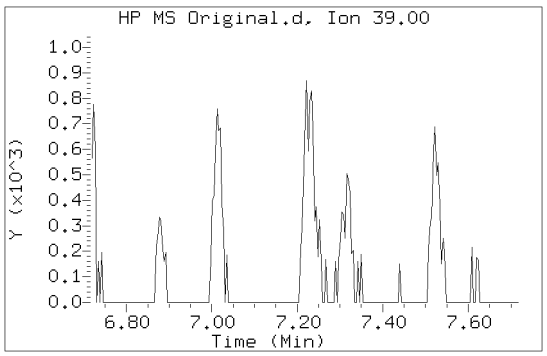
AFTER

MASS
77
AREA
351
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



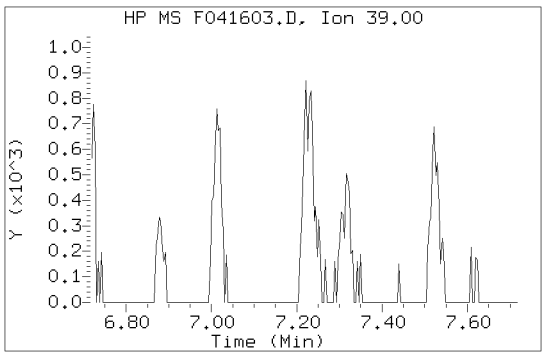
BEFORE

MASS
39
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

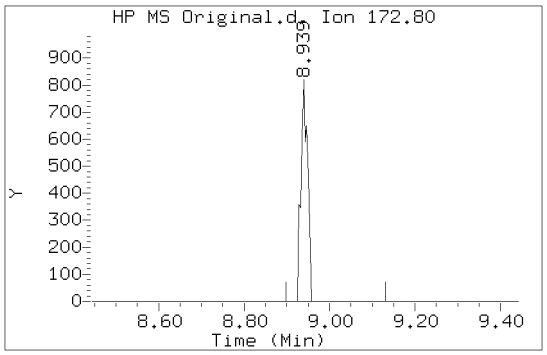


Bromoform (75-25-2)

Reason Code:

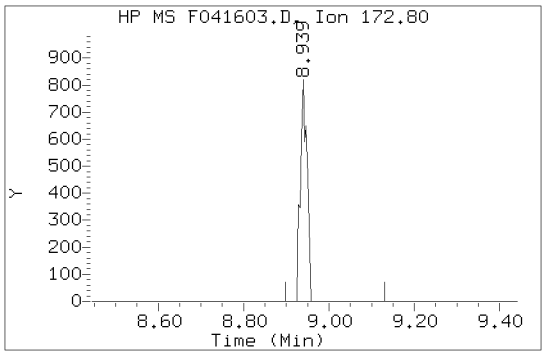
BEFORE

MASS
172.8
AREA
924
HEIGHT
820
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
172.8
AREA
924
HEIGHT
820
22-Apr-2024
09:21
salina
zaid



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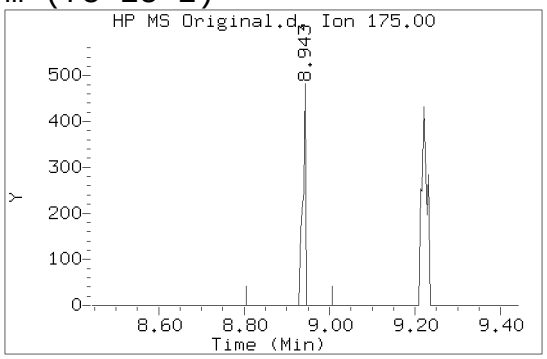
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

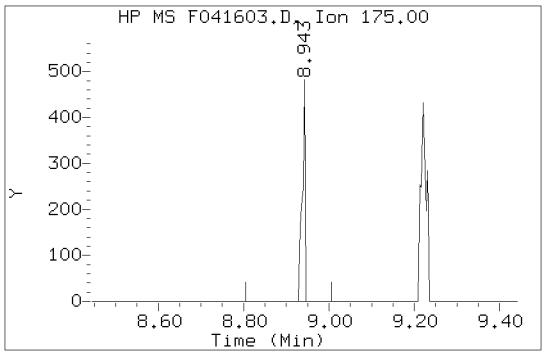
BEFORE

MASS
175
AREA
246
HEIGHT
482
22-Apr-2024
09:21
salina
zaid



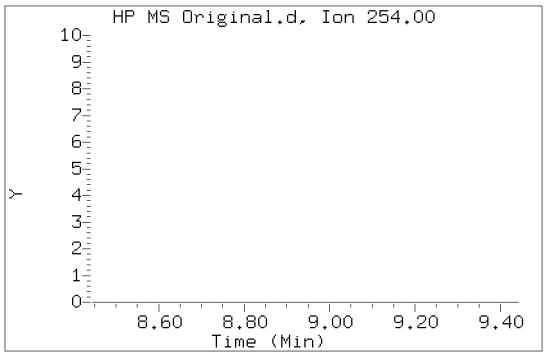
AFTER

MASS
175
AREA
246
HEIGHT
482
22-Apr-2024
09:21
salina
zaid



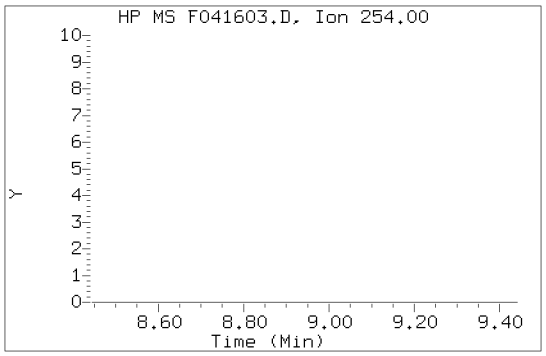
BEFORE

MASS
254
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

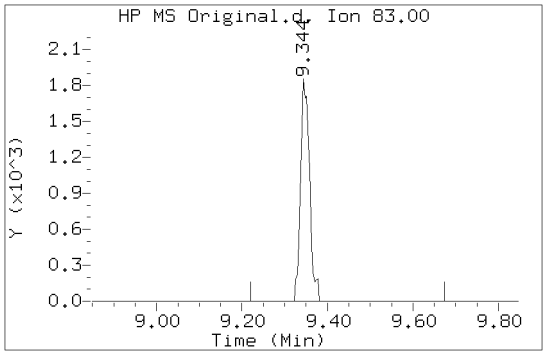


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

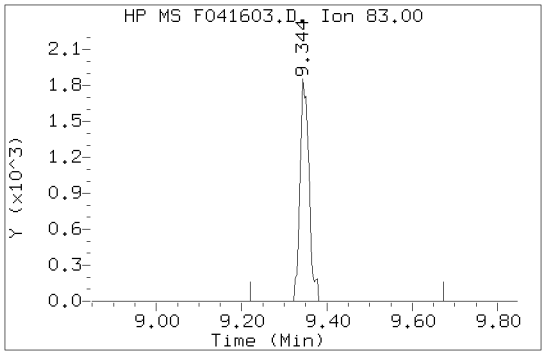
BEFORE

MASS
83
AREA
2777
HEIGHT
1855
22-Apr-2024
09:21
salina
zaid



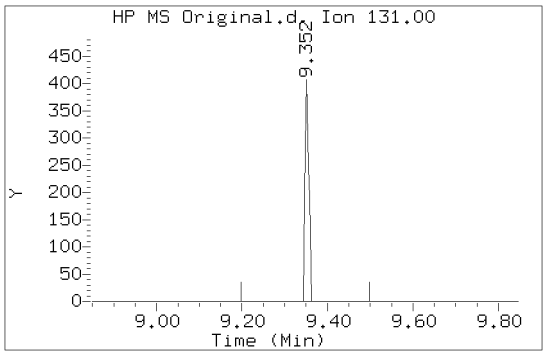
AFTER

MASS
83
AREA
2777
HEIGHT
1855
22-Apr-2024
09:21
salina
zaid



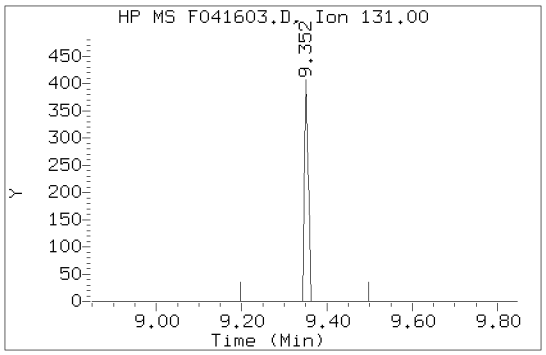
BEFORE

MASS
131
AREA
253
HEIGHT
407
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
131
AREA
253
HEIGHT
407
22-Apr-2024
09:21
salina
zaid



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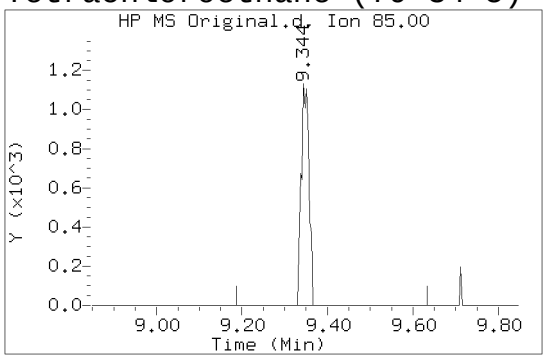
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

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

Reason Code:

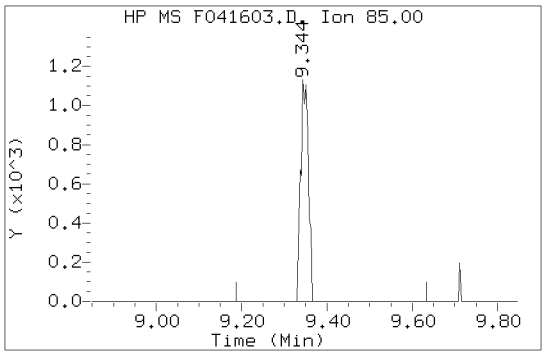
BEFORE

MASS
85
AREA
1460
HEIGHT
1132
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
85
AREA
1460
HEIGHT
1132
22-Apr-2024
09:21
salina
zaid

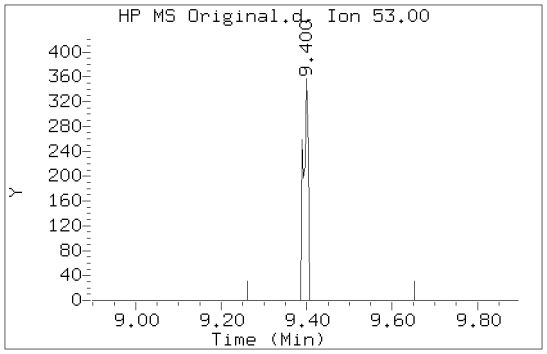


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

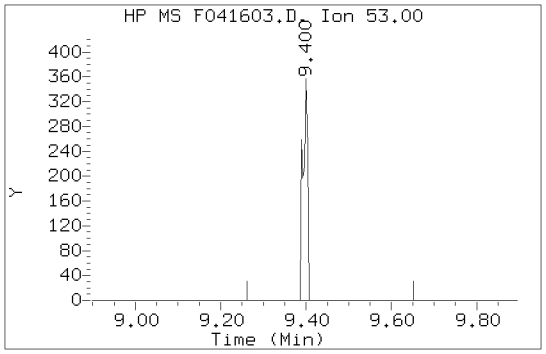
BEFORE

MASS
53
AREA
286
HEIGHT
357
22-Apr-2024
09:21
salina
zaid



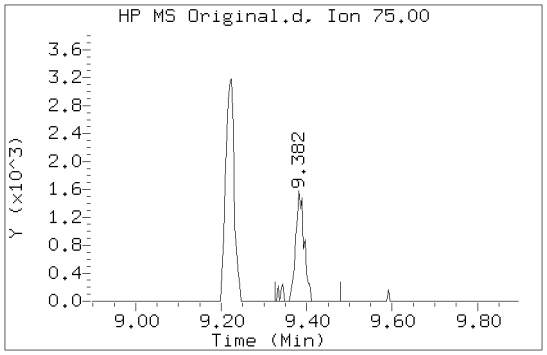
AFTER

MASS
53
AREA
286
HEIGHT
357
22-Apr-2024
09:21
salina
zaid



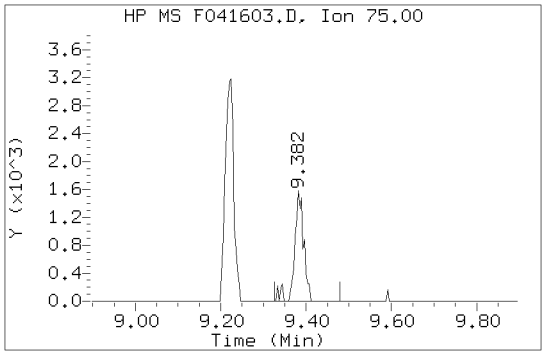
BEFORE

MASS
75
AREA
2383
HEIGHT
1585
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
2383
HEIGHT
1585
22-Apr-2024
09:21
salina
zaid

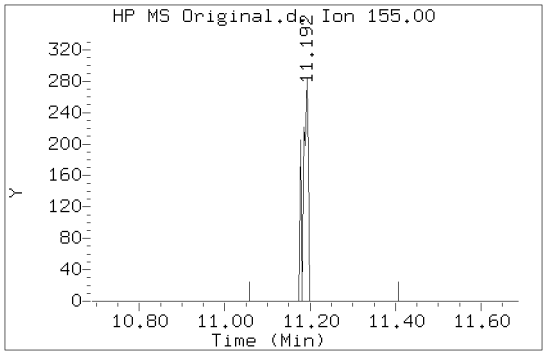


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

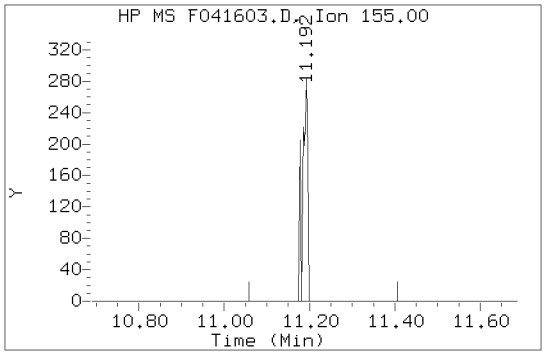
BEFORE

MASS
155
AREA
245
HEIGHT
283
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
155
AREA
245
HEIGHT
283
22-Apr-2024
09:21
salina
zaid



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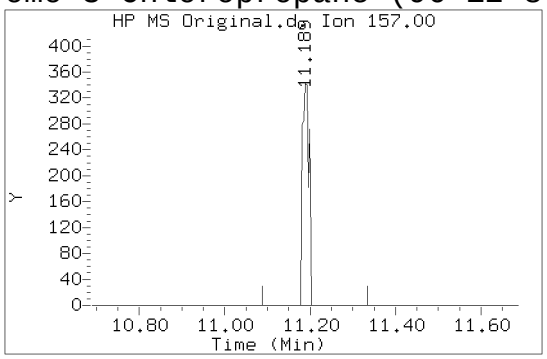
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

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

Reason Code:

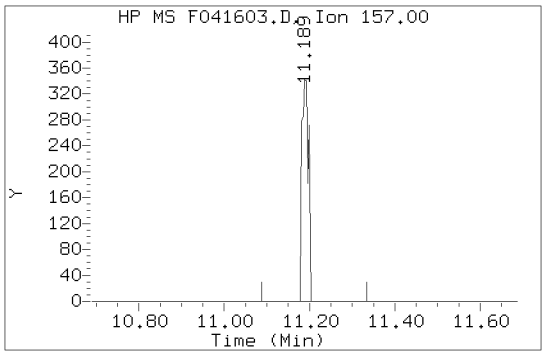
BEFORE

MASS
157
AREA
382
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



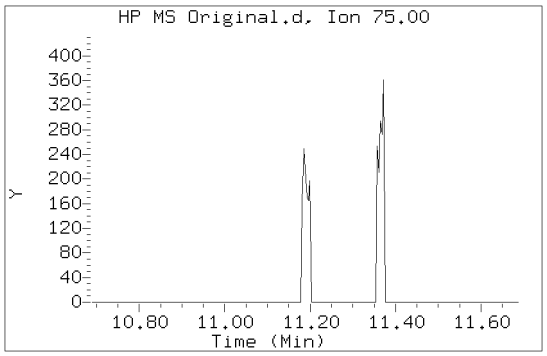
AFTER

MASS
157
AREA
382
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



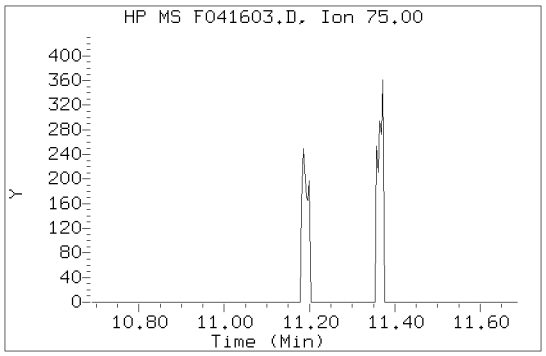
BEFORE

MASS
75
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

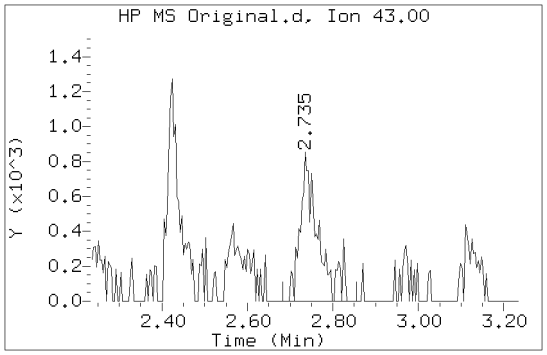


Methyl acetate (79-20-9)

Reason Code:

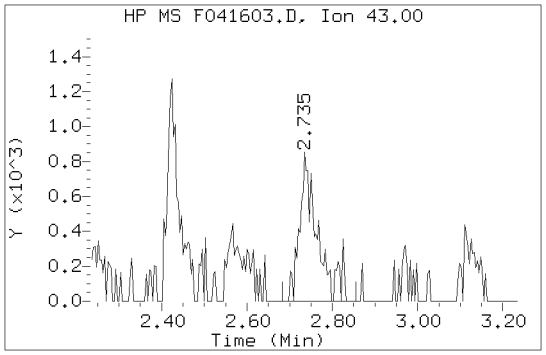
BEFORE

MASS
43
AREA
2545
HEIGHT
853
22-Apr-2024
09:21
salina
zaid



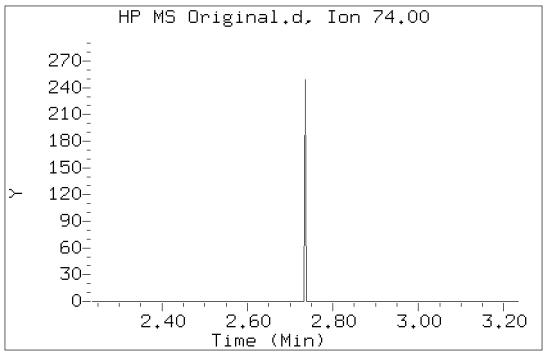
AFTER

MASS
43
AREA
2545
HEIGHT
853
22-Apr-2024
09:21
salina
zaid



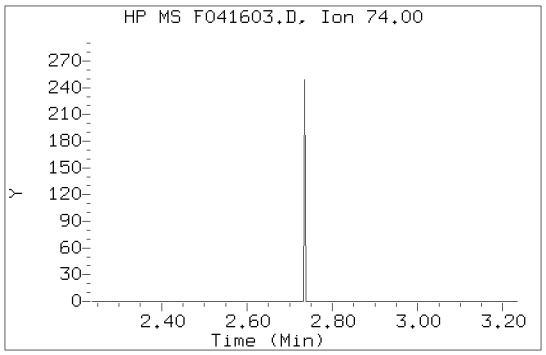
BEFORE

MASS
74
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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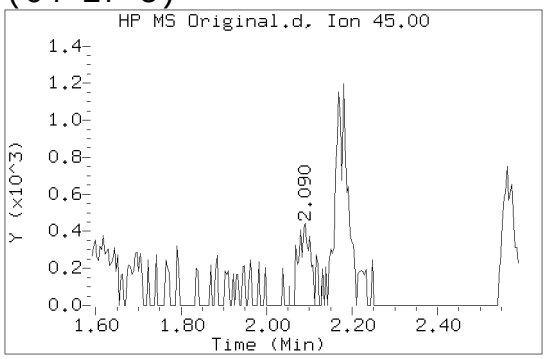
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

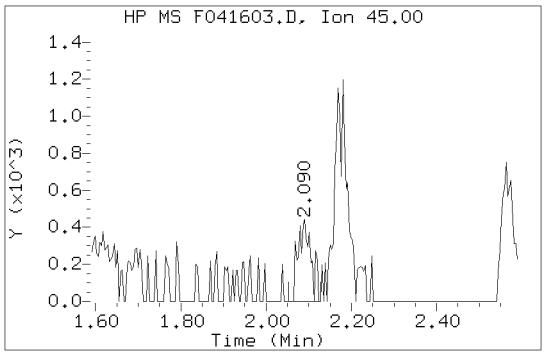
Ethanol (64-17-5)

Reason Code:

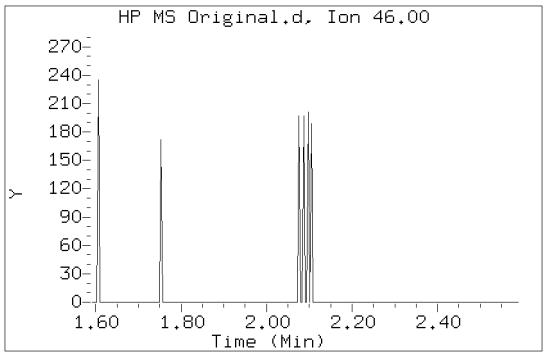
BEFORE
MASS
45
AREA
953
HEIGHT
443
22-Apr-2024
09:21
salina
zaid



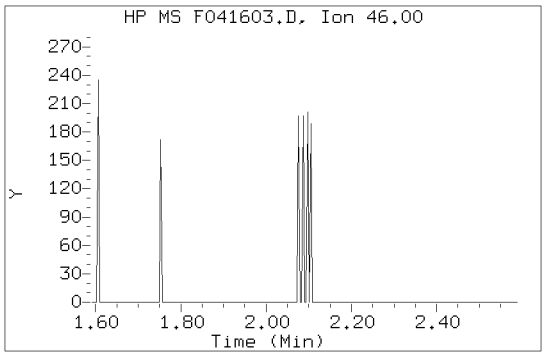
AFTER
MASS
45
AREA
953
HEIGHT
443
22-Apr-2024
09:21
salina
zaid



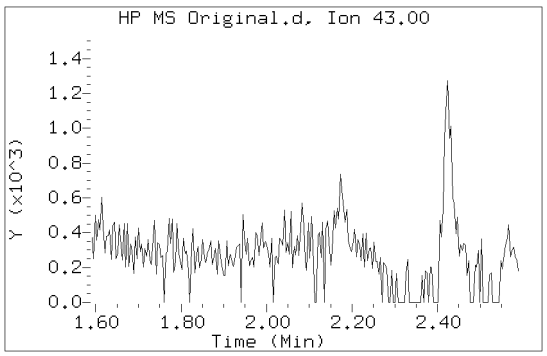
BEFORE
MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



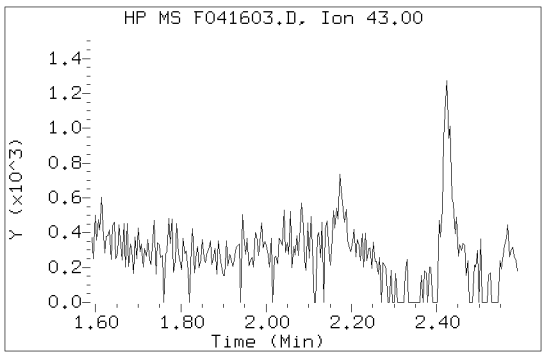
AFTER
MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



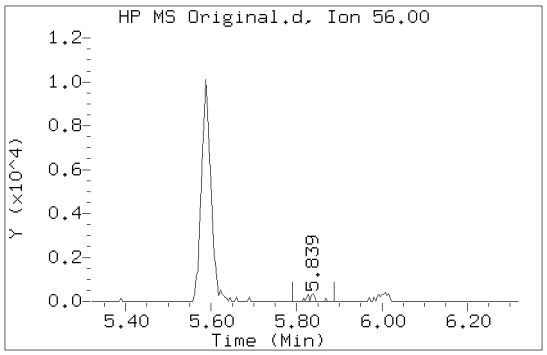
AFTER
MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



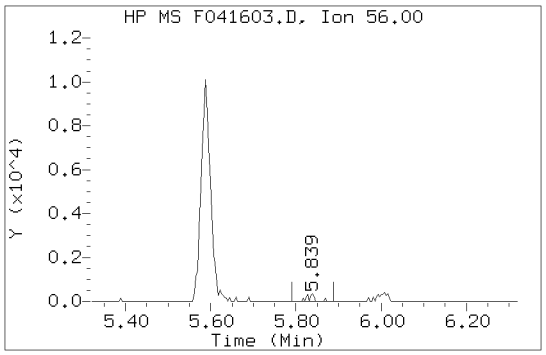
n-Butanol (71-36-3)

Reason Code:

BEFORE
MASS
56
AREA
378
HEIGHT
345
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
56
AREA
378
HEIGHT
345
22-Apr-2024
09:21
salina
zaid



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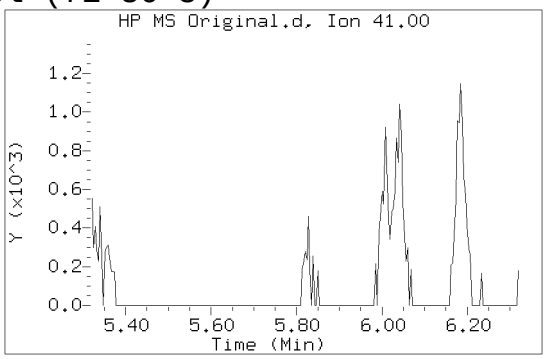
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

n-Butanol (71-36-3)

Reason Code:

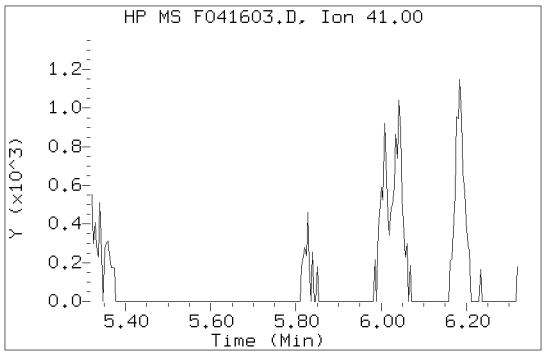
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

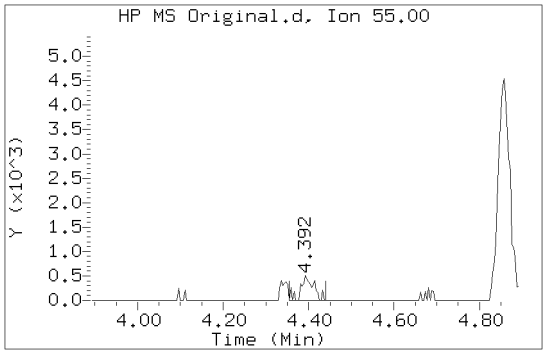


Methyl Acrylate (96-33-3)

Reason Code:

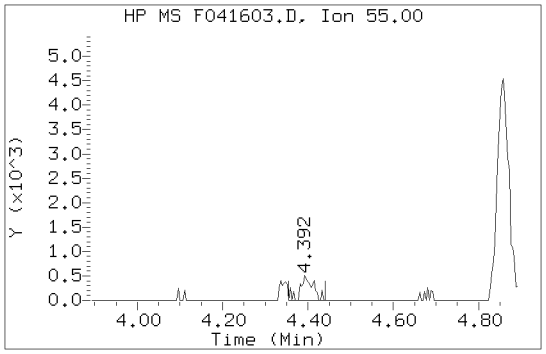
BEFORE

MASS
55
AREA
1048
HEIGHT
510
22-Apr-2024
09:21
salina
zaid



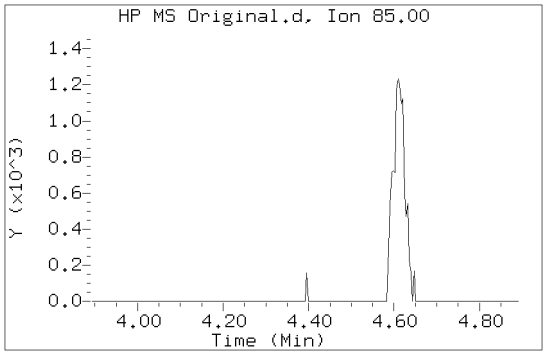
AFTER

MASS
55
AREA
1048
HEIGHT
510
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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HEIGHT
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22-Apr-2024
09:21
salina
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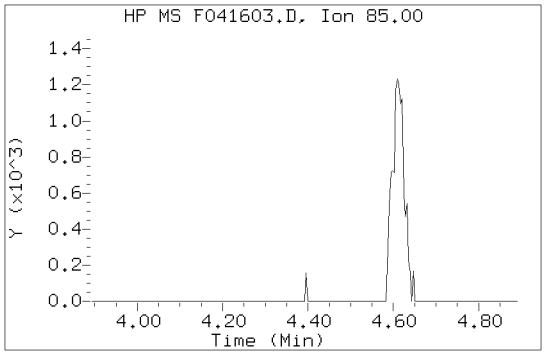

Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE

MASS
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22-Apr-2024
09:21
salina
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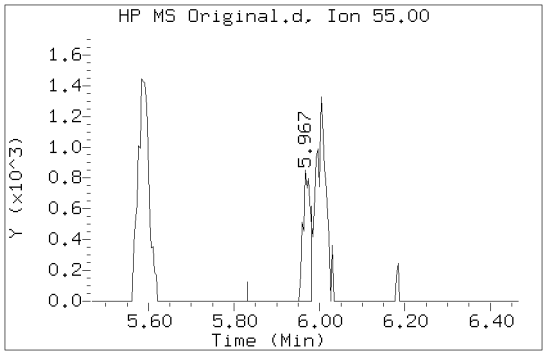

AFTER

MASS
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AREA
1048
HEIGHT
853
22-Apr-2024
09:21
salina
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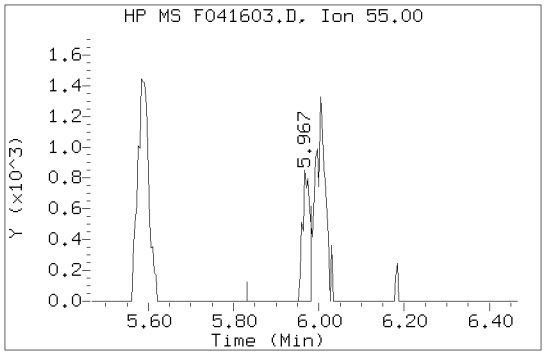

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Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE

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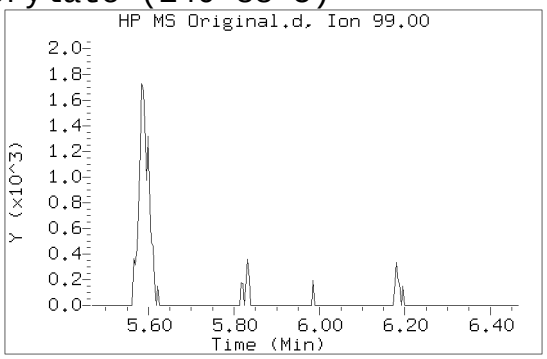
22-Apr-2024
09:21
salina
zaid



AFTER

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AREA
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HEIGHT
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22-Apr-2024
09:21
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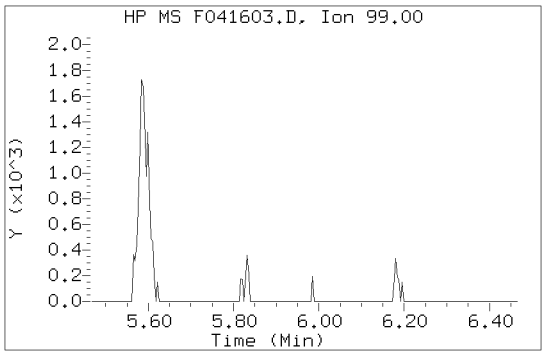

1,4-Dioxane ()

Reason Code:

BEFORE

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249
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09:21
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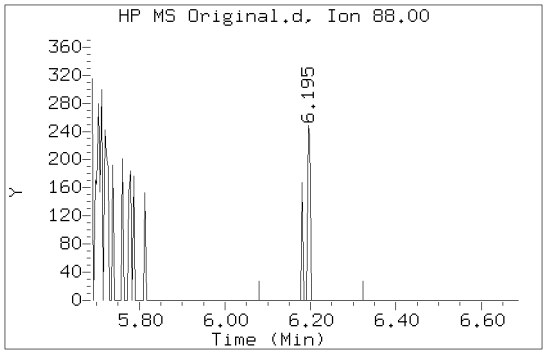

AFTER

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AREA
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HEIGHT
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09:21
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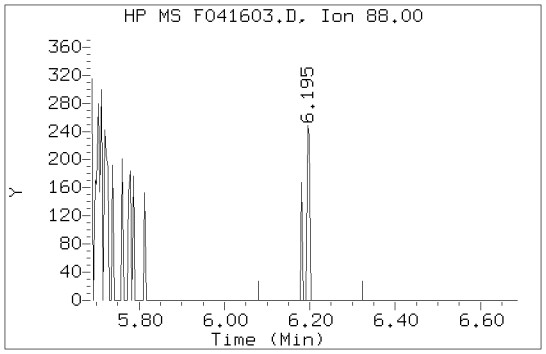

BEFORE

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HEIGHT
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22-Apr-2024
09:21
salina
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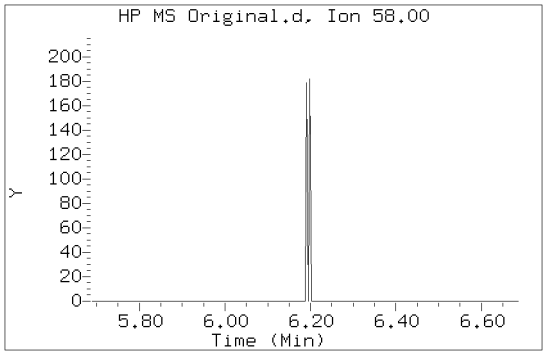

AFTER

MASS
58
AREA
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HEIGHT
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22-Apr-2024
09:21
salina
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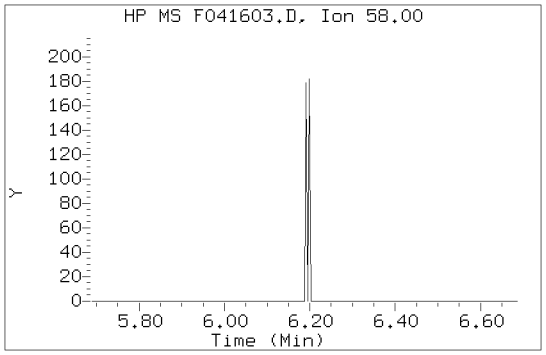

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

MASS
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HEIGHT
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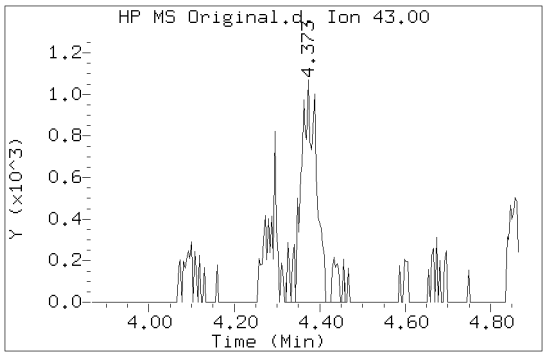
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
3016
HEIGHT
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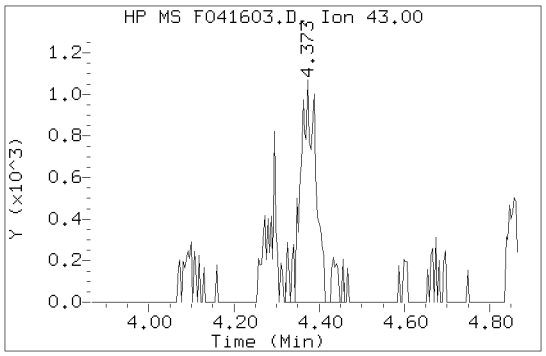
22-Apr-2024
09:21
salina
zaid



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Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

MASS
61
AREA
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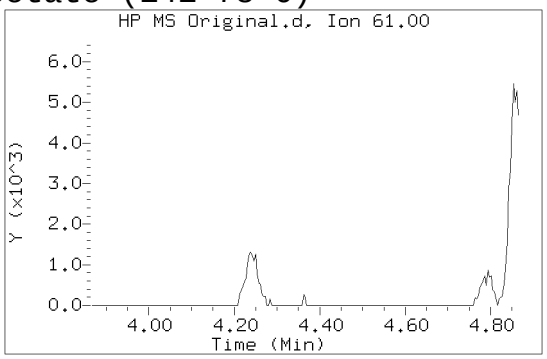
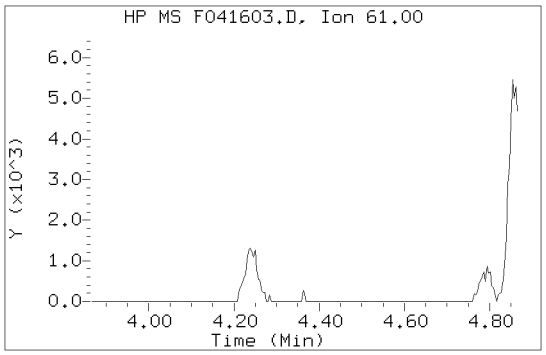
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
61
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
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AREA
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HEIGHT
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22-Apr-2024
09:21
salina
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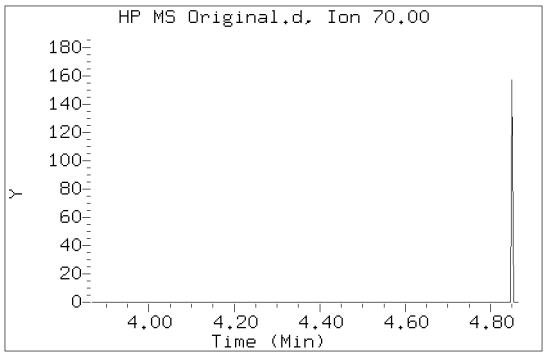

AFTER

MASS
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HEIGHT
0
22-Apr-2024
09:21
salina
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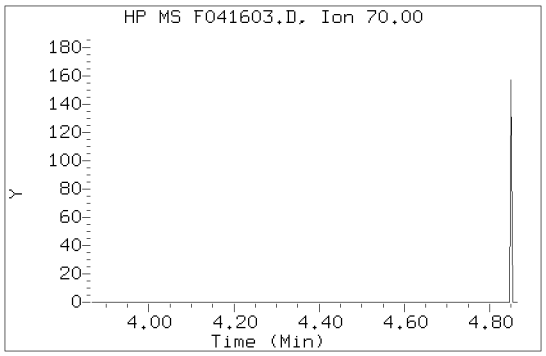
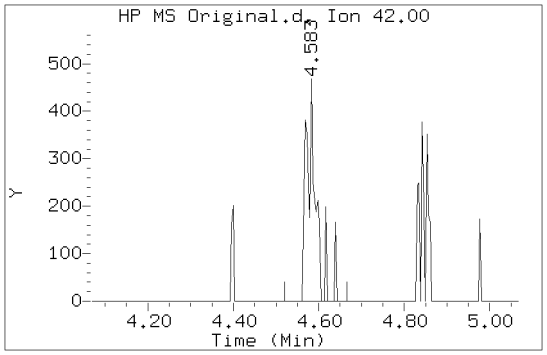


Tetrahydrofuran (109-99-9)

Reason Code:

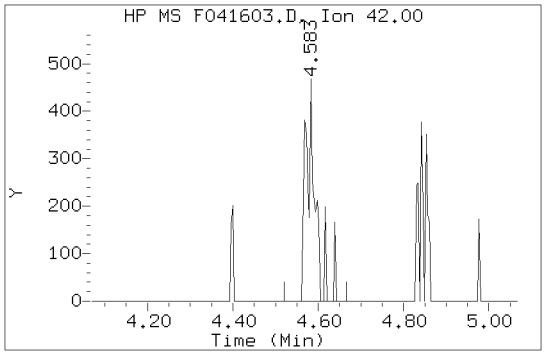
BEFORE

MASS
42
AREA
726
HEIGHT
468
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
42
AREA
726
HEIGHT
468
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
71
AREA
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HEIGHT
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22-Apr-2024
09:21
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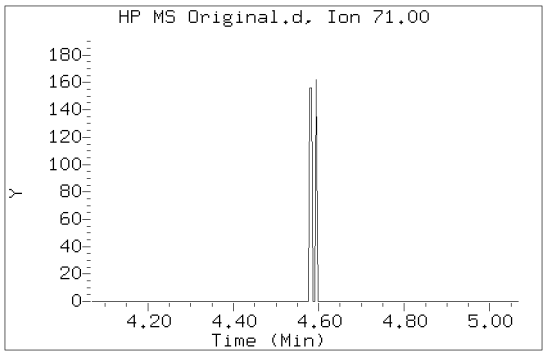

AFTER

MASS
71
AREA
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HEIGHT
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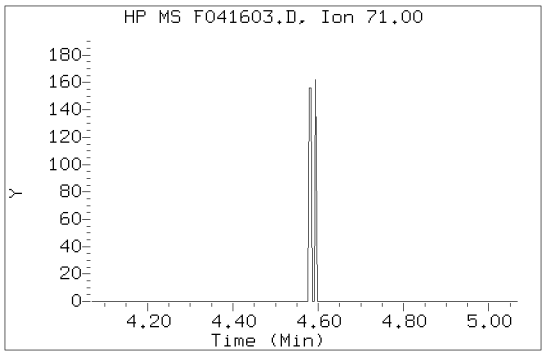
22-Apr-2024
09:21
salina
zaid



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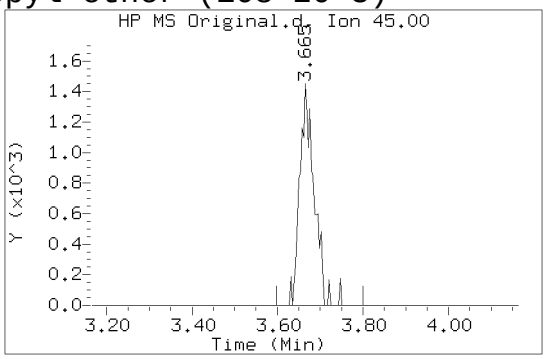
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

BEFORE
MASS
45
AREA
3402
HEIGHT
1451
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
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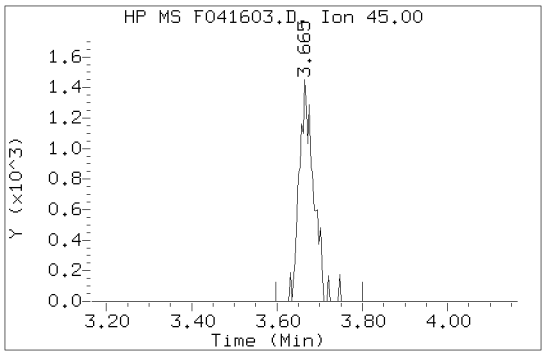
HEIGHT
1451
22-Apr-2024
09:21
salina
zaid



BEFORE
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HEIGHT
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22-Apr-2024
09:21
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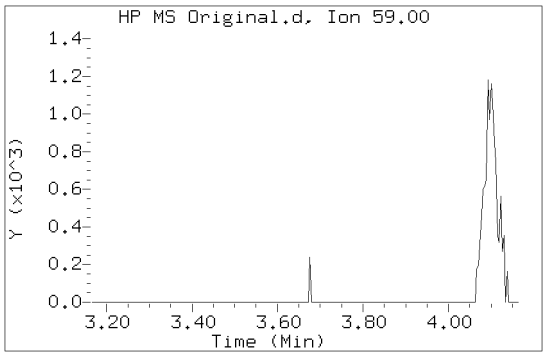

AFTER
MASS
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09:21
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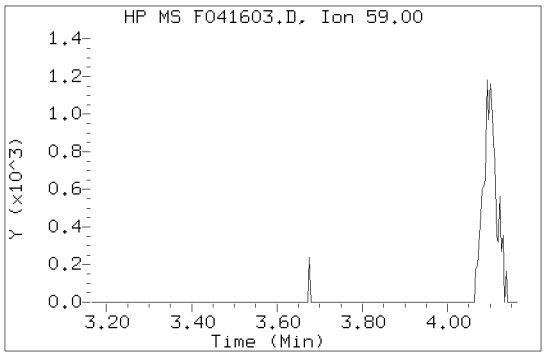

BEFORE
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09:21
salina
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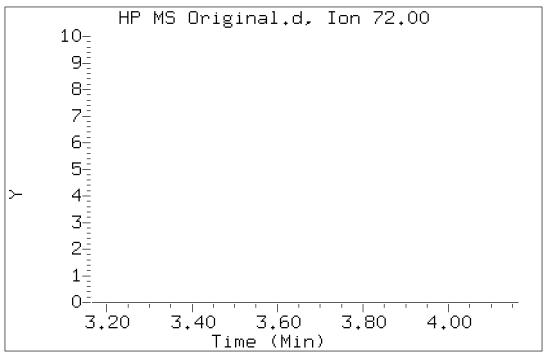

AFTER
MASS
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AREA
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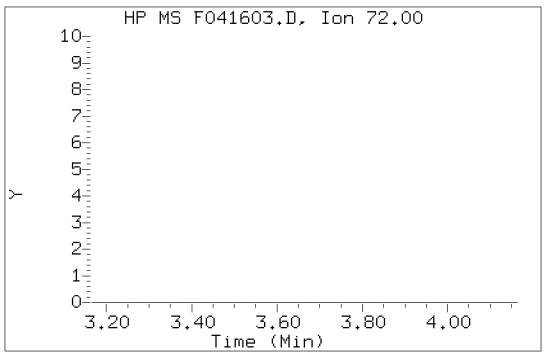
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
MASS
67
AREA
3852
HEIGHT
2449
22-Apr-2024
09:21
salina
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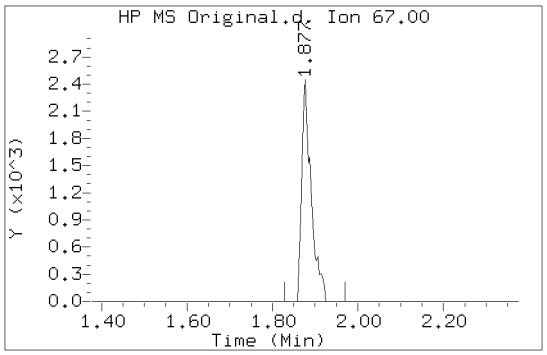

AFTER
MASS
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AREA
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HEIGHT
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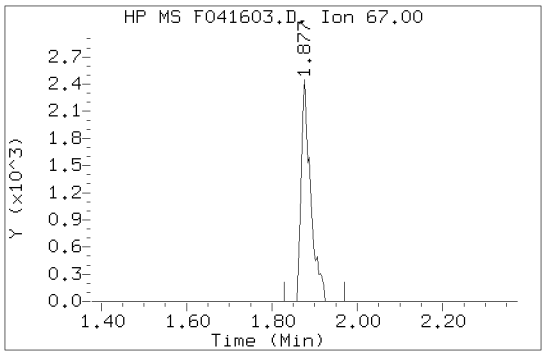
22-Apr-2024
09:21
salina
zaid



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Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE

MASS
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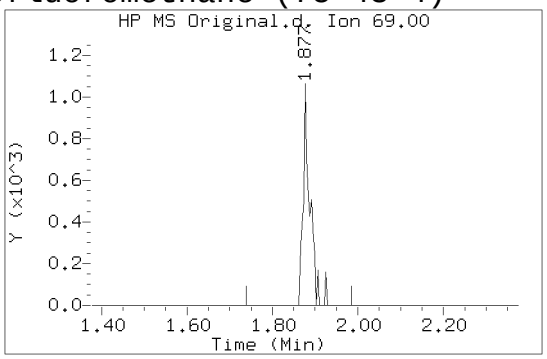
AREA
1202
HEIGHT
1064
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
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HEIGHT
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22-Apr-2024
09:21
salina
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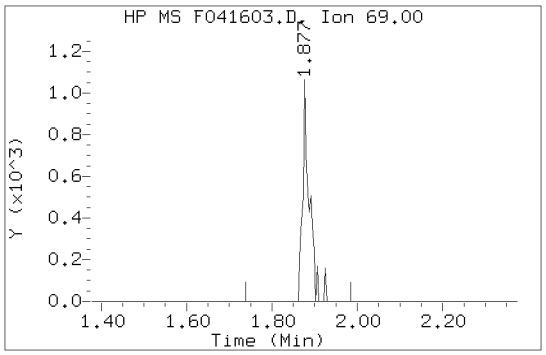

BEFORE

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HEIGHT
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22-Apr-2024
09:21
salina
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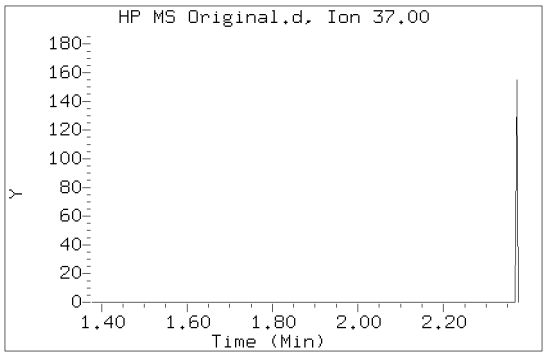

AFTER

MASS
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AREA
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HEIGHT
0
22-Apr-2024
09:21
salina
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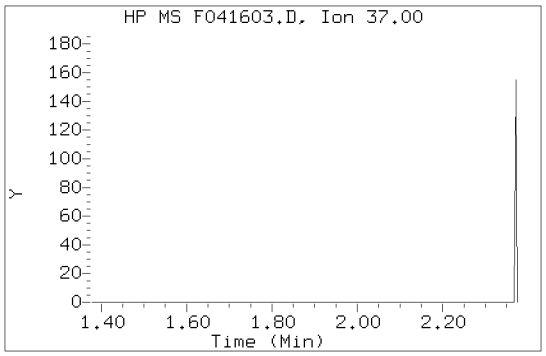

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041604.D Page 1
Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041604.D
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Inj Date : 16-APR-2024 12:20
Operator : FT Inst ID: voa11.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:22 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	491416	50.0000	
2	Dichlorodifluoromethane	85	1.175	1.175	(0.242)	4543	1.00000	0.84(a)
3	Chloromethane	50	1.306	1.306	(0.269)	9380	1.00000	0.98(a)
4	Propionitrile	54	4.335	4.335	(0.893)	11066	10.0000	8.90(a)
5	Vinyl Chloride	62	1.389	1.389	(0.286)	4679	1.00000	0.89(a)
7	Chloroethane	64	1.719	1.719	(0.354)	3391	1.00000	1.00
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	7153	1.00000	0.85(a)
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	7978	1.00000	0.96(aM)
9	Acrolein	56	2.277	2.277	(0.469)	471	2.00000	4.16(M)
10	Acetone	43	2.427	2.427	(0.500)	3613	2.00000	6.29
11	1,1-Dichloroethene	96	2.360	2.360	(0.486)	3761	1.00000	0.90(a)
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	1684	20.0000	7.98(aH)
13	Acetonitrile	39	2.701	2.701	(0.556)	4248	10.0000	18.09
14	Allyl Chloride	41	2.705	2.705	(0.557)	7581	1.00000	2.83
15	Iodomethane	142	2.502	2.502	(0.515)	2027	2.00000	12.91(T)
16	Acrylonitrile	53	3.076	3.076	(0.633)	2111	2.00000	5.19
17	Methylene Chloride	84	2.821	2.821	(0.581)	10390	1.00000	1.66(a)
18	Methyl tert-butyl ether	73	3.117	3.117	(0.642)	6918	1.00000	3.89
19	Carbon Disulfide	76	2.555	2.555	(0.526)	21740	2.00000	1.71(a)
20	trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	3990	1.00000	0.87(a)

21 Vinyl Acetate	43	3.672	3.672 (0.756)	10053	2.00000	5.27
22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	7061	1.00000	0.91(a)

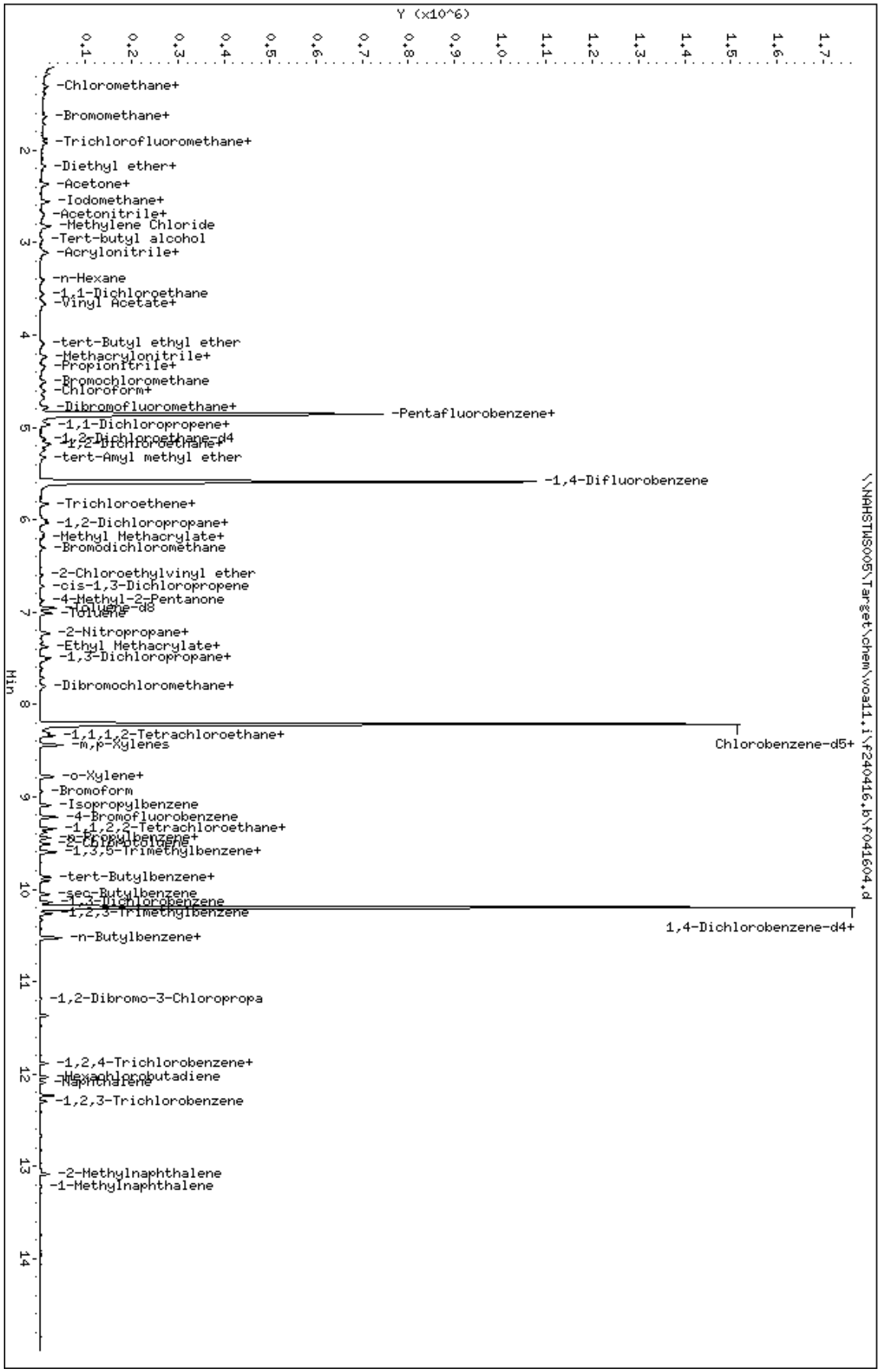
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.294	4.294	(0.884)	2826	2.00000	7.13(M)
	25	Methacrylonitrile	41	4.234	4.234	(0.872)	3478	1.00000	0.95(a)
	26	2,2-Dichloropropane	77	4.227	4.227	(0.870)	3643	1.00000	3.80(M)
	27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.872)	4501	1.00000	0.92(a)
	28	Chloroform	83	4.609	4.609	(0.949)	8605	1.00000	0.96(a)
	29	Bromochloromethane	128	4.500	4.500	(0.927)	2796	1.00000	1.03
$	30	Dibromofluoromethane	113	4.781	4.781	(0.985)	6063	1.00000	1.58
	31	1,1,1-Trichloroethane	97	4.796	4.796	(0.988)	6087	1.00000	0.86(a)
	32	1,1-Dichloropropene	75	4.973	4.973	(0.890)	5323	1.00000	0.85(a)
	33	1,2-Dichloroethane	62	5.201	5.201	(0.931)	7489	1.00000	0.91(a)
	34	Carbon Tetrachloride	117	4.958	4.958	(0.887)	5521	1.00000	0.84(a)
$	35	1,2-Dichloroethane-d4	65	5.122	5.122	(1.055)	8909	1.00000	1.61
*	36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	787891	50.0000	
	37	Benzene	78	5.182	5.182	(0.928)	17326	1.00000	0.89(a)
	38	Trichloroethene	130	5.820	5.820	(1.042)	4987	1.00000	0.86(a)
	39	Bromodichloromethane	83	6.307	6.307	(1.129)	5510	1.00000	0.83(aM)
	40	Methyl Methacrylate	41	6.183	6.183	(1.273)	4145	1.00000	3.56
	41	2-Chloroethylvinyl ether	63	6.596	6.596	(1.180)	2321	2.00000	6.74
	42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	4348	1.00000	0.87(a)
	43	2-Nitropropane	43	7.229	7.229	(1.489)	4358	1.00000	0.84(a)
	44	Dibromomethane	93	6.142	6.142	(1.099)	2961	1.00000	0.82(a)
	45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	3658	2.00000	2.46
	46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	3773	1.00000	3.27
*	47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	707760	50.0000	
$	48	Toluene-d8	98	6.956	6.956	(0.847)	18318	1.00000	0.40(a)
	49	Ethyl Methacrylate	69	7.315	7.315	(1.309)	2815	1.00000	1.93
	50	Toluene	91	7.016	7.016	(0.854)	14002	1.00000	1.37
	51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	3071	1.00000	2.21
	52	2-Hexanone	43	7.229	7.229	(0.880)	4358	2.00000	1.64(a)
	53	1,1,2-Trichloroethane	83	7.379	7.379	(0.898)	3730	1.00000	0.92(a)
	54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	7139	1.00000	0.88(a)
	55	Dibromochloromethane	129	7.713	7.713	(0.939)	3515	1.00000	3.61
	56	Tetrachloroethene	164	7.492	7.492	(0.912)	4383	1.00000	0.92(a)
	57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	3880	1.00000	1.95
	58	1-Chlorohexane	55	8.215	8.215	(1.470)	9603	1.00000	1.76
	59	Chlorobenzene	112	8.238	8.238	(1.003)	14486	1.00000	0.96(a)
	60	1,1,1,2-Tetrachloroethane	131	8.309	8.309	(1.011)	3634	1.00000	0.76(a)
	61	Ethylbenzene	106	8.339	8.339	(1.015)	5422	1.00000	0.81(a)
	62	m,p-Xylenes	106	8.440	8.440	(1.027)	11679	2.00000	1.57(a)
	63	o-Xylene	106	8.774	8.774	(1.068)	5330	1.00000	1.82
	64	Styrene	104	8.785	8.785	(1.069)	7651	1.00000	1.51
	66	Bromoform	173	8.939	8.939	(1.088)	1764	1.00000	1.25(T)
	67	Isopropylbenzene	105	9.096	9.096	(1.107)	12171	1.00000	1.71
	68	1,1,2,2-Tetrachloroethane	83	9.344	9.344	(0.916)	6025	1.00000	0.92(a)
$	69	4-Bromofluorobenzene	95	9.224	9.224	(1.123)	10601	1.00000	1.74
*	70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	389828	50.0000	
	71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	4794	1.00000	0.82(a)
	72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	644	1.00000	1.22(M)
	73	n-Propylbenzene	91	9.445	9.445	(0.926)	13723	1.00000	1.90
	74	Bromobenzene	156	9.344	9.344	(0.916)	4573	1.00000	2.52
	75	1,3,5-Trimethylbenzene	105	9.591	9.591	(0.940)	9274	1.00000	1.93
	76	2-Chlorotoluene	91	9.508	9.508	(0.932)	9968	1.00000	1.90

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	10728	1.00000	1.41
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	8365	1.00000	2.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	9304	1.00000	2.15
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	11160	1.00000	2.39
82	p-Isopropyltoluene	119	10.179	10.179	(0.998)	9840	1.00000	2.35
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	8326	1.00000	0.75(a)
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	12075	1.00000	0.96(a)
87	n-Butylbenzene	91	10.524	10.524	(1.032)	11106	1.00000	2.78
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	9671	1.00000	0.86(a)
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	380	1.00000	1.45(M)
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	4363	1.00000	0.67(a)
92	Naphthalene	128	12.091	12.091	(1.186)	7232	1.00000	2.08
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	4620	1.00000	0.83(a)
146	Methyl acetate	43	2.735	2.735	(0.563)	4521	1.00000	0.93(a)
138	Freon TF	101	2.375	2.375	(0.489)	4567	1.00000	0.91(a)
139	Diethyl ether	59	2.172	2.172	(0.447)	5268	1.00000	0.90(a)
141	Cyclohexane	56	4.856	4.856	(1.000)	13271	1.00000	1.50(a)
147	Methylcyclohexane	55	6.003	6.003	(1.074)	4578	1.00000	0.50(a)
132	n-Butanol	56	5.816	5.816	(1.198)	829	20.0000	43.40
131	Methyl Acrylate	55	4.403	4.403	(0.907)	2673	1.00000	2.92(M)
133	Ethyl Acrylate	55	5.973	5.973	(1.230)	2520	1.00000	4.87(M)
135	1,4-Dioxane	88	6.187	6.187	(1.274)	610	20.0000	22.66(M)
136	n-Hexane	57	3.406	3.406	(0.701)	3102	1.00000	2.02
142	Tetrahydrofuran	42	4.579	4.579	(0.943)	1915	2.00000	3.81(M)
148	Tert-butyl alcohol	59	2.971	2.971	(0.612)	4026	20.0000	42.85
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	2811	20.0000	36.49
151	4-Methyl-2-pentanol	45	7.233	7.233	(1.295)	6178	20.0000	34.67
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	10652	1.00000	2.12
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	4363	1.00000	0.67(a)
172	tert-Butyl formate	59	5.235	5.235	(1.078)	2527	2.00000	3.73(M)
174	tert-Amyl methyl ether	73	5.321	5.321	(1.096)	5954	1.00000	4.53(T)
175	tert-Butyl ethyl ether	59	4.099	4.099	(0.844)	6677	1.00000	3.94
160	2-Methylnaphthalene	142	13.043	13.043	(1.279)	1825	1.00000	3.51
156	Diisopropyl ether	45	3.664	3.664	(0.755)	8416	1.00000	1.87(T)
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	2017	1.00000	2.48
130	Ethyl Acetate	43	4.362	4.362	(0.898)	6279	1.00000	3.37(TaM)
176	tert-Amyl alcohol	59	5.235	5.235	(1.078)	2528	20.0000	37.94

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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1.7
Min
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7
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11
12
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14
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane+
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
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-Methacrylonitrile+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-tert-Amyl methyl ether
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether
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-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
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-Ethyl Methacrylate+
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-Dibromochloromethane+
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-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
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-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
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1,4-Dichlorobenzene-d4+
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-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1

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Inj Date : 16-APR-2024 12:20
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LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

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22-Apr-2024
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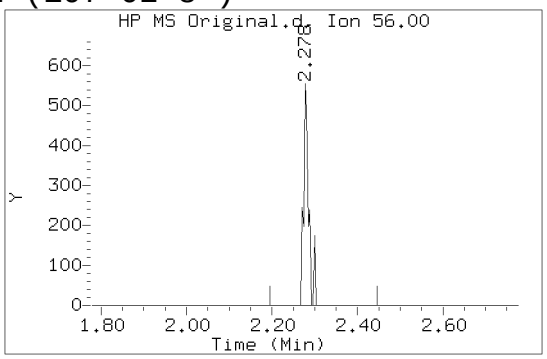

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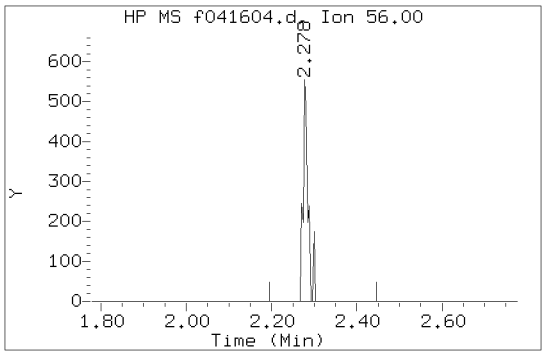

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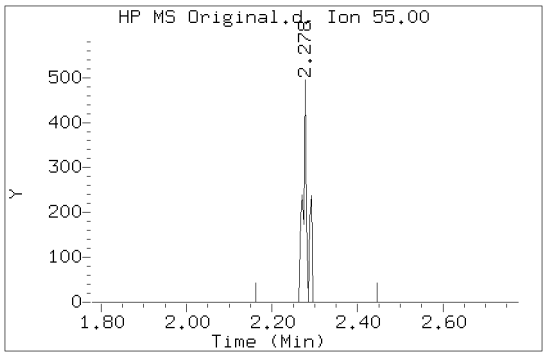

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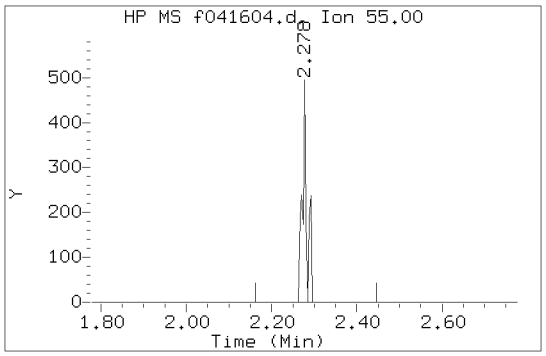

2-Butanone (78-93-3)

Reason Code:

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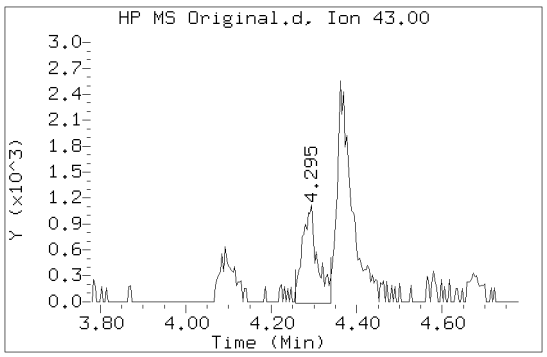

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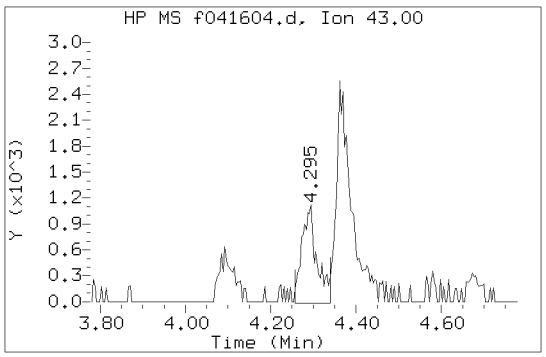

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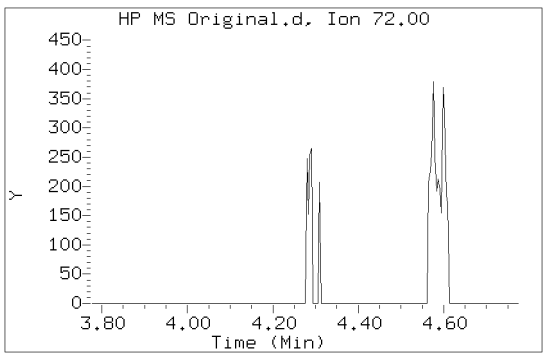

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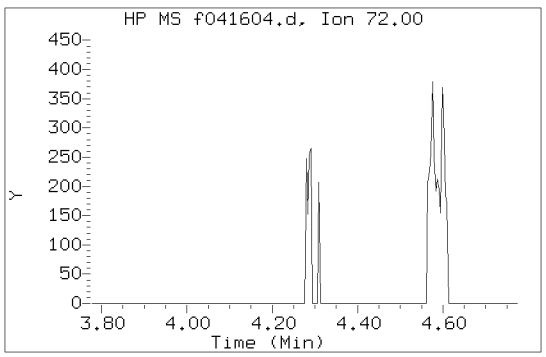

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LabSampID : VSTD001

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

Reason Code:

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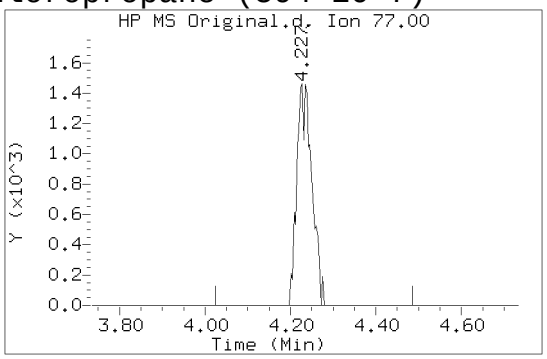

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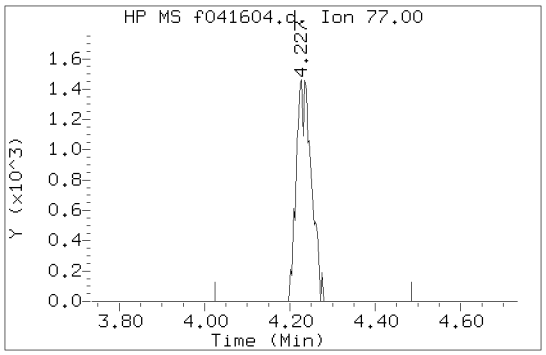

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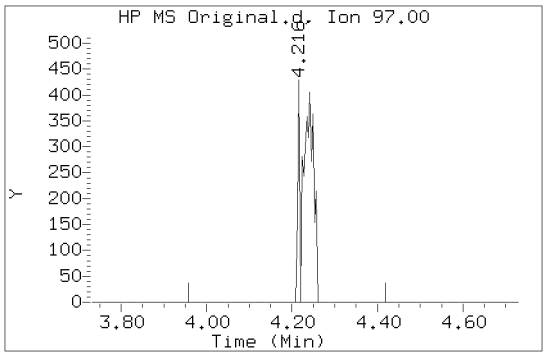

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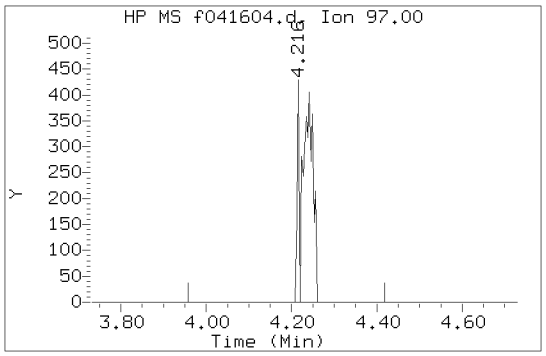

Bromodichloromethane (75-27-4)

Reason Code:

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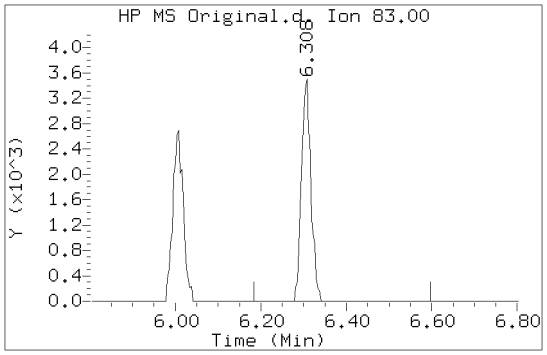

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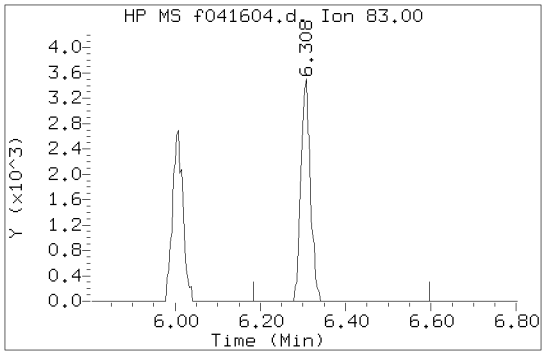

BEFORE

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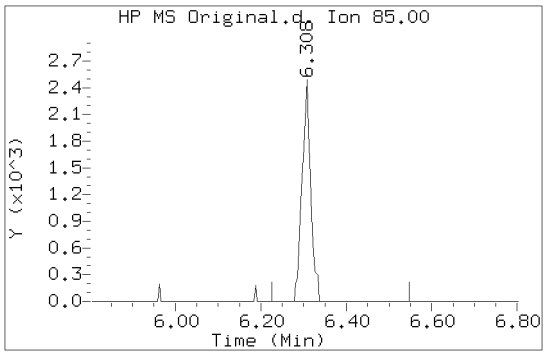

AFTER

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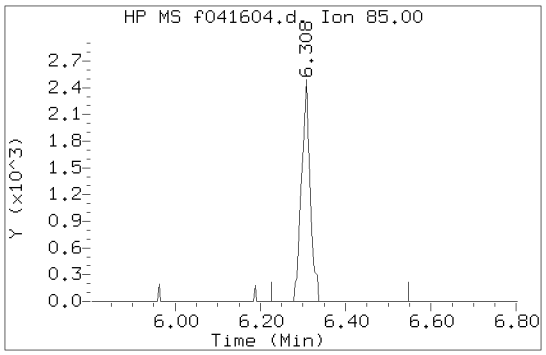

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LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE

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09:21
salina
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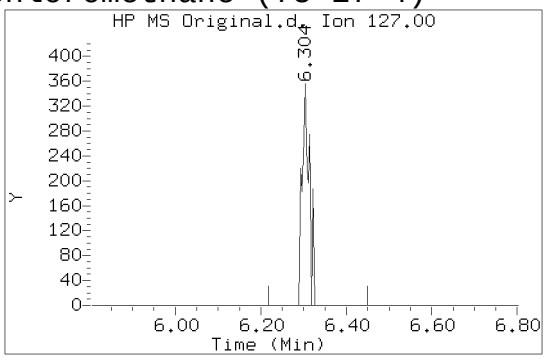

AFTER

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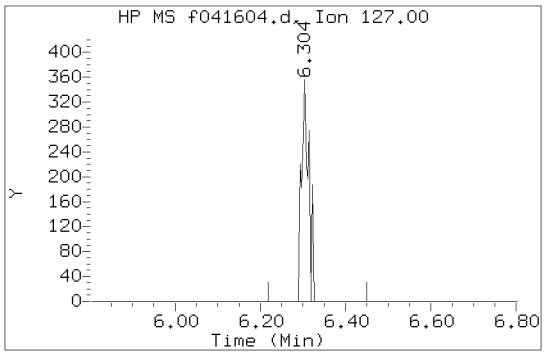

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

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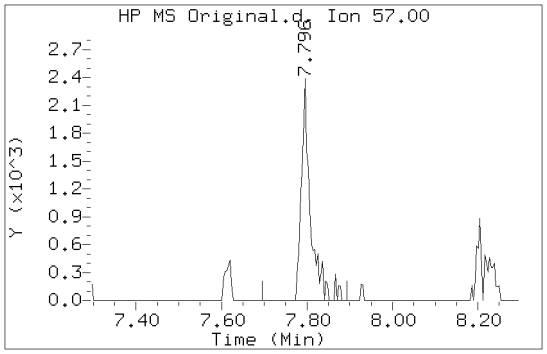
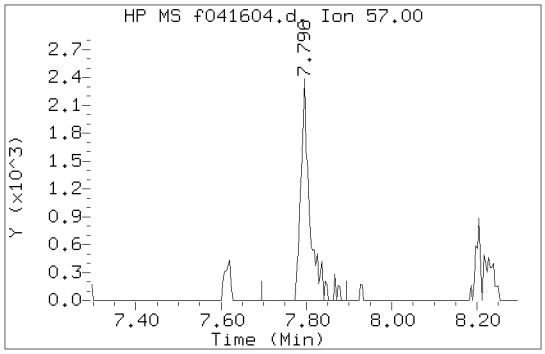
salina
zaid



AFTER

MASS
57
AREA
3645
HEIGHT
2386
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
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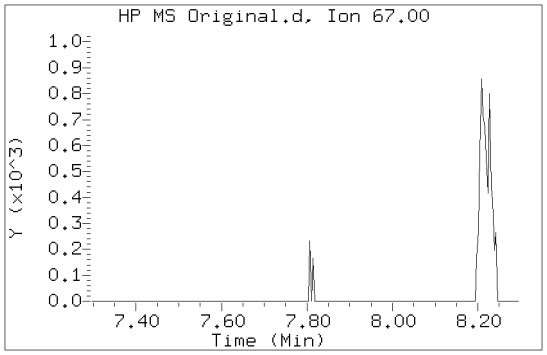
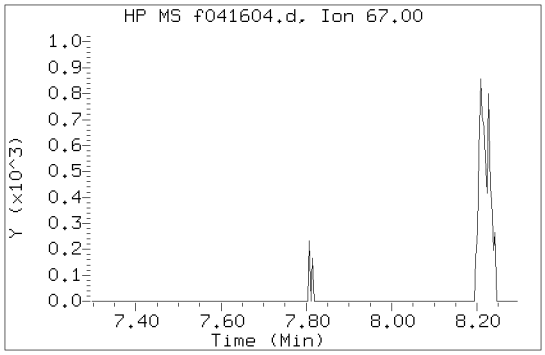


AFTER

MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
56
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
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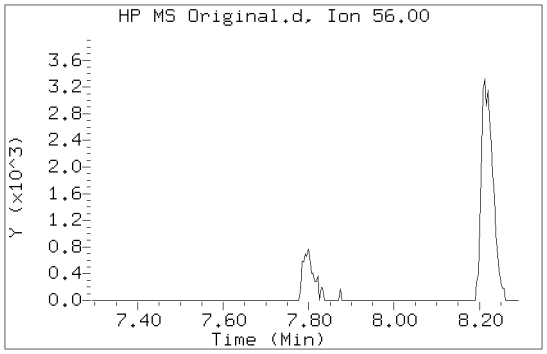

AFTER

MASS
56
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HEIGHT
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22-Apr-2024
09:21
salina
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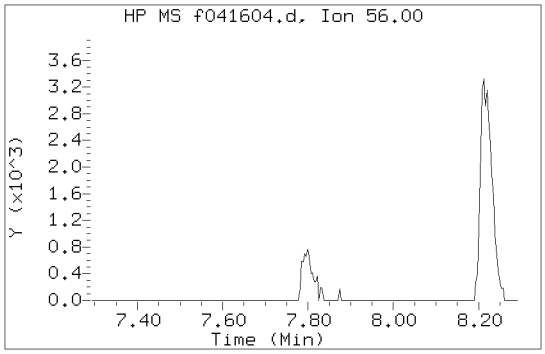

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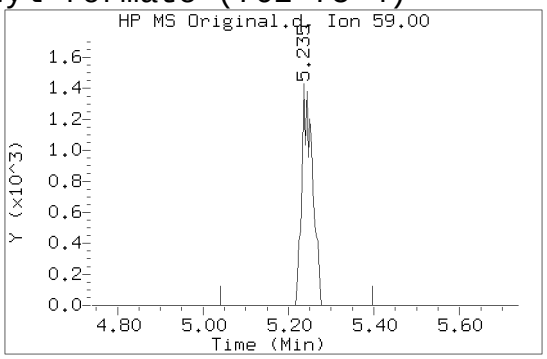
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

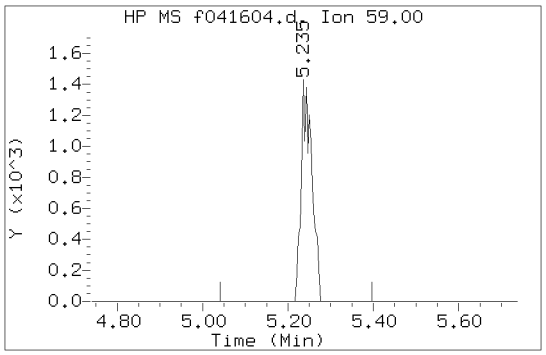
BEFORE

MASS
59
AREA
2527
HEIGHT
1430
22-Apr-2024
09:21
salina
zaid



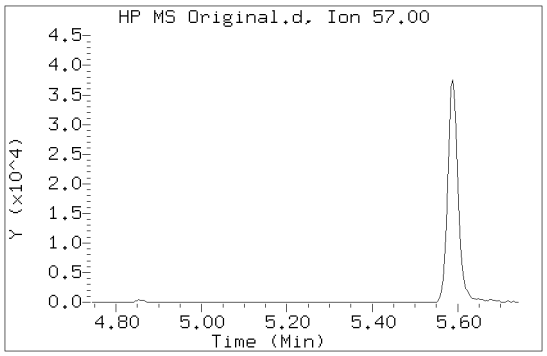
AFTER

MASS
59
AREA
2527
HEIGHT
1430
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
57
AREA
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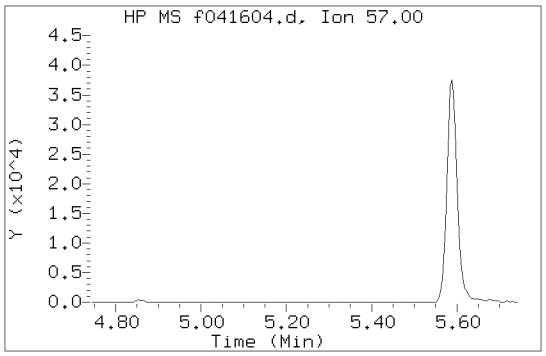
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
41
AREA
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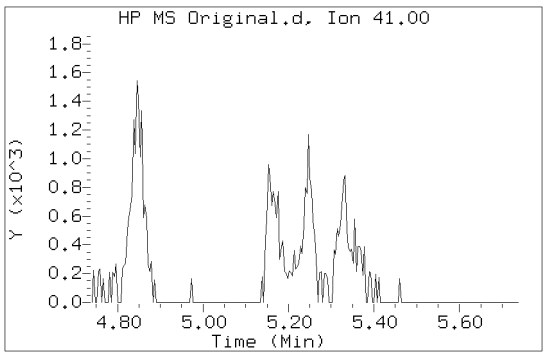
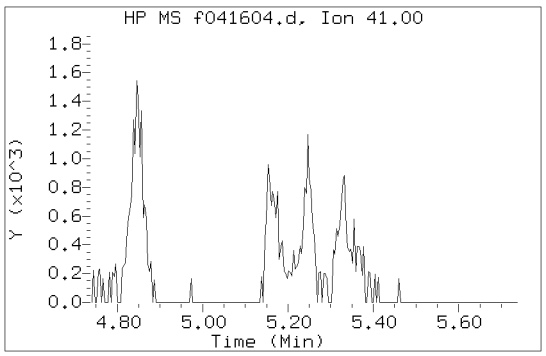
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

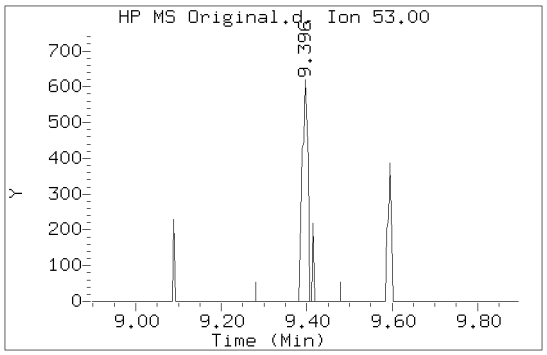


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

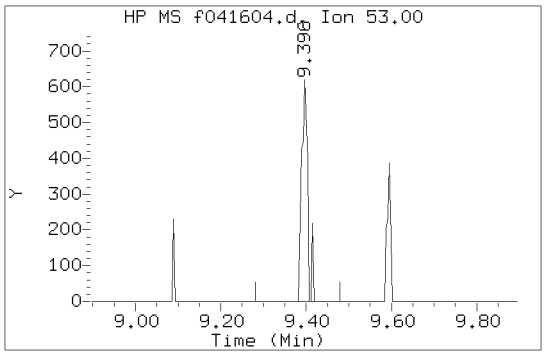
BEFORE

MASS
53
AREA
644
HEIGHT
620
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
53
AREA
644
HEIGHT
620
22-Apr-2024
09:21
salina
zaid



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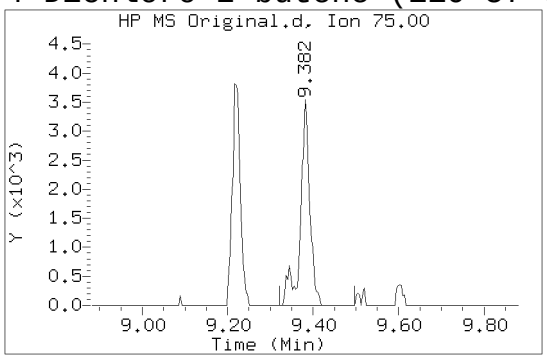
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

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

Reason Code:

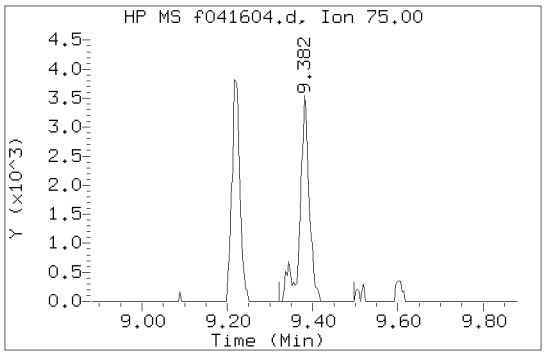
BEFORE

MASS
75
AREA
5513
HEIGHT
3542
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
5513
HEIGHT
3542
22-Apr-2024
09:21
salina
zaid

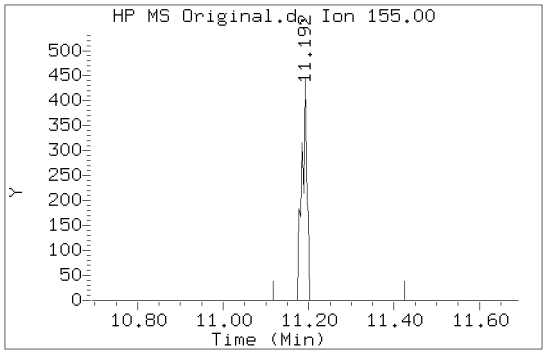


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

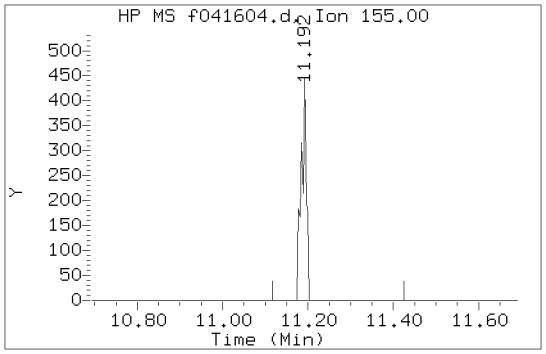
BEFORE

MASS
155
AREA
380
HEIGHT
444
22-Apr-2024
09:21
salina
zaid



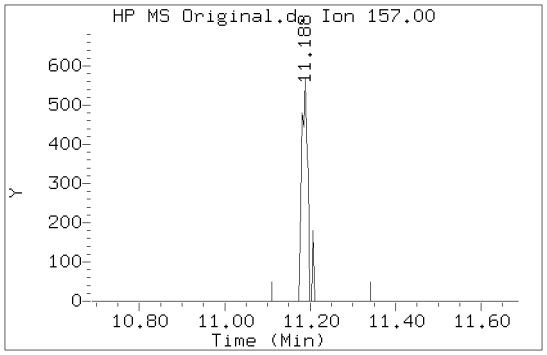
AFTER

MASS
155
AREA
380
HEIGHT
444
22-Apr-2024
09:21
salina
zaid



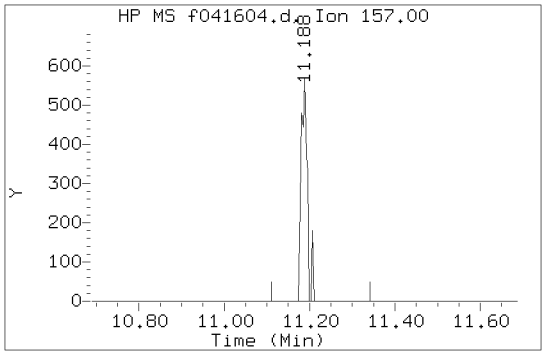
BEFORE

MASS
157
AREA
588
HEIGHT
567
22-Apr-2024
09:21
salina
zaid



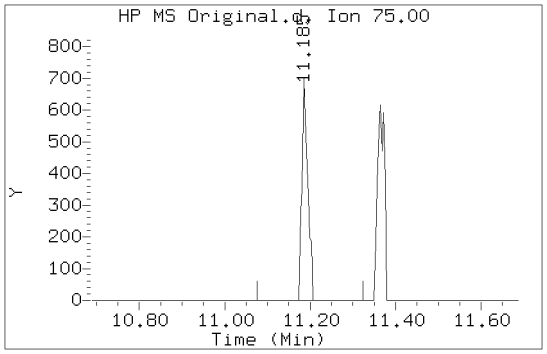
AFTER

MASS
157
AREA
588
HEIGHT
567
22-Apr-2024
09:21
salina
zaid



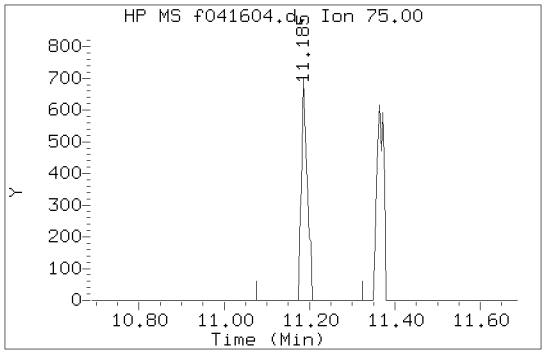
BEFORE

MASS
75
AREA
683
HEIGHT
699
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
683
HEIGHT
699
22-Apr-2024
09:21
salina
zaid



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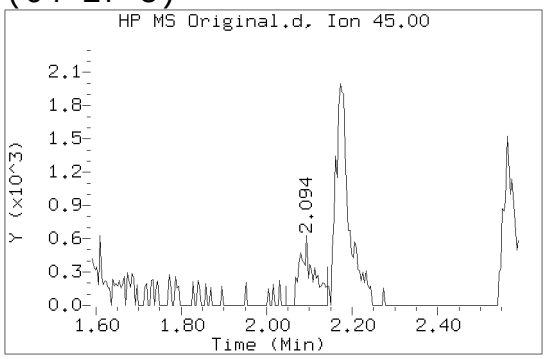
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

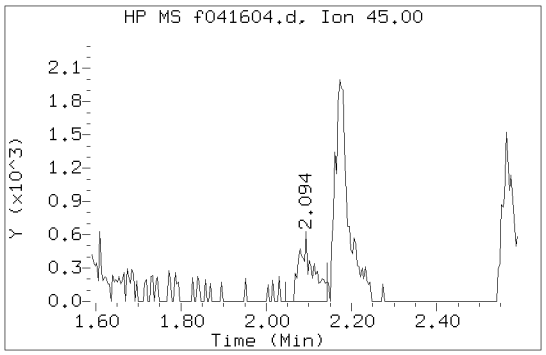
BEFORE

MASS
45
AREA
1383
HEIGHT
629
22-Apr-2024
09:21
salina
zaid



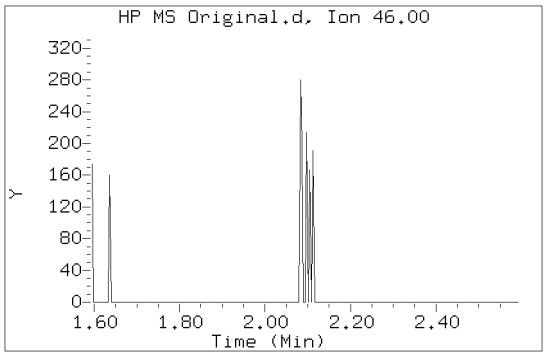
AFTER

MASS
45
AREA
1383
HEIGHT
629
22-Apr-2024
09:21
salina
zaid



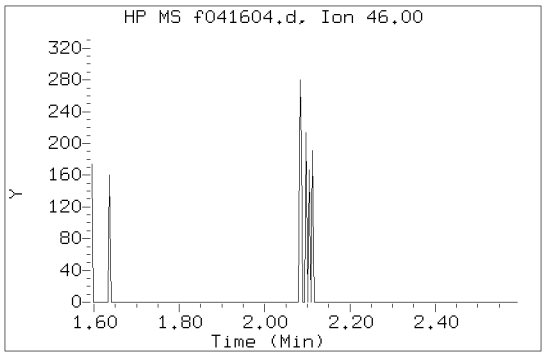
BEFORE

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



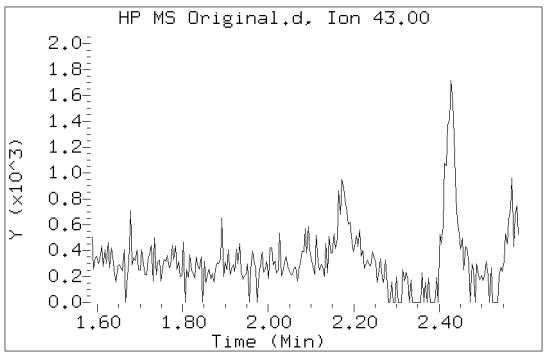
AFTER

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



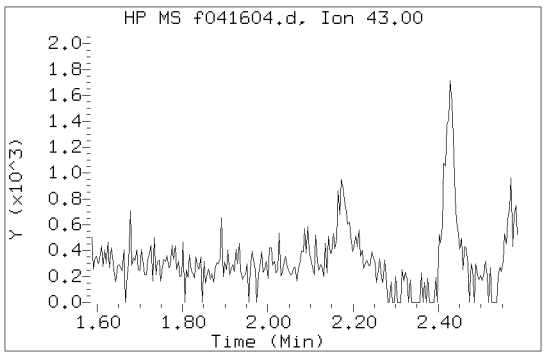
BEFORE

MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

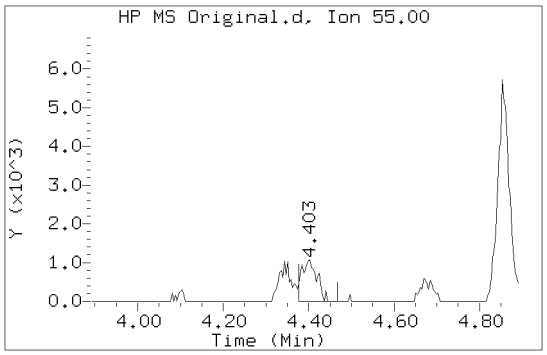


Methyl Acrylate (96-33-3)

Reason Code:

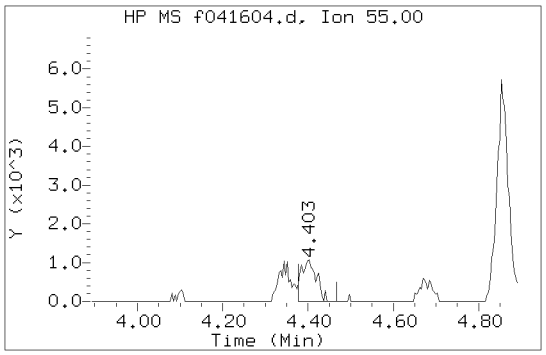
BEFORE

MASS
55
AREA
2673
HEIGHT
1072
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
55
AREA
2673
HEIGHT
1072
22-Apr-2024
09:21
salina
zaid



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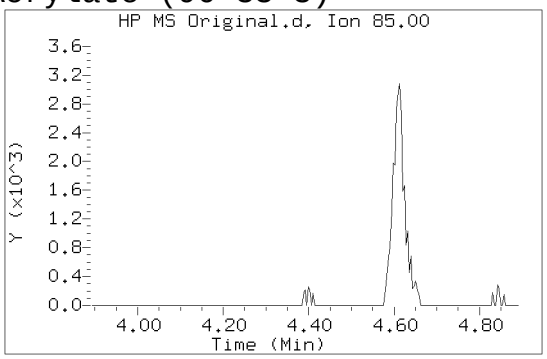
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

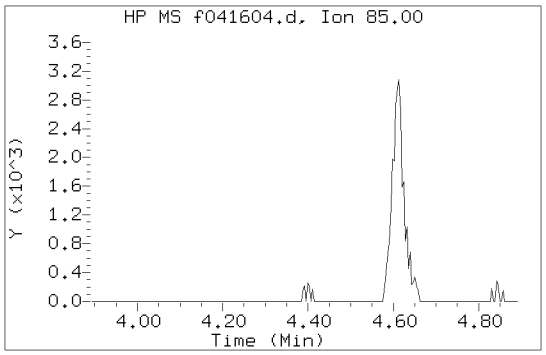
BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

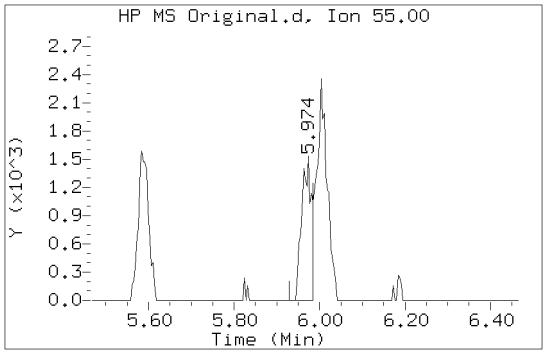


Ethyl Acrylate (140-88-5)

Reason Code:

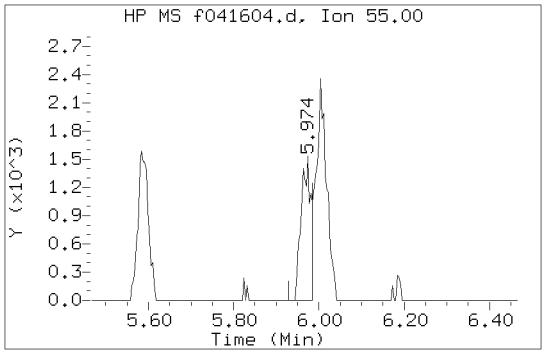
BEFORE

MASS
55
AREA
2520
HEIGHT
1529
22-Apr-2024
09:21
salina
zaid



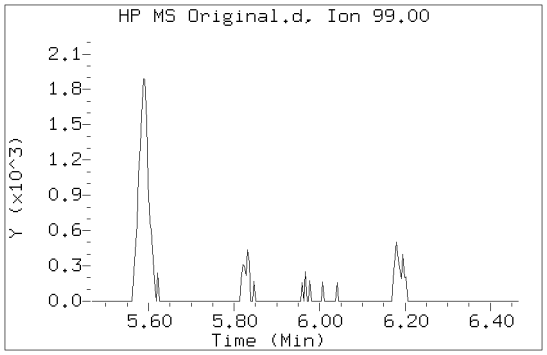
AFTER

MASS
55
AREA
2520
HEIGHT
1529
22-Apr-2024
09:21
salina
zaid



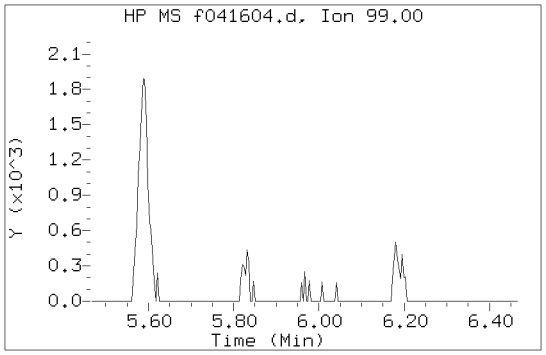
BEFORE

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

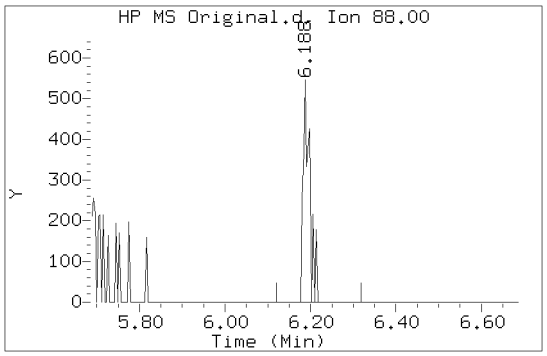


1,4-Dioxane ()

Reason Code:

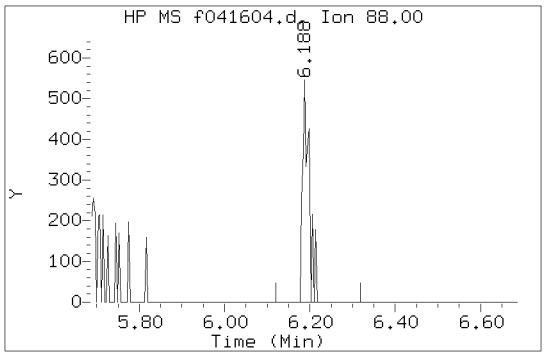
BEFORE

MASS
88
AREA
610
HEIGHT
546
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
88
AREA
610
HEIGHT
546
22-Apr-2024
09:21
salina
zaid



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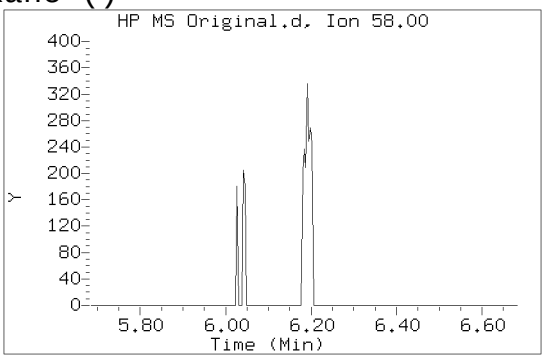
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

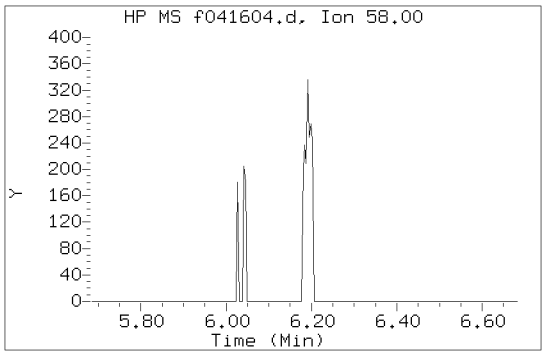
BEFORE

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

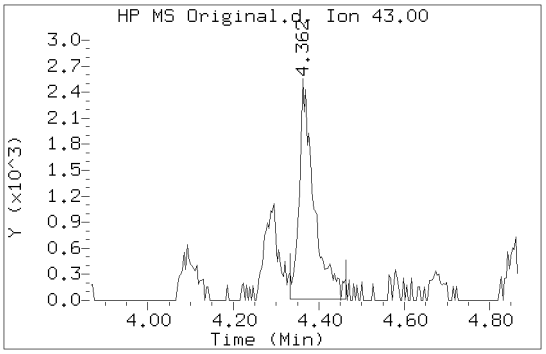


Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

MASS
43
AREA
6279
HEIGHT
2539
22-Apr-2024
09:21
salina
zaid



AFTER

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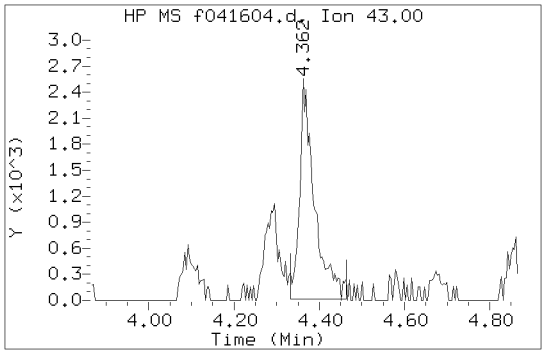

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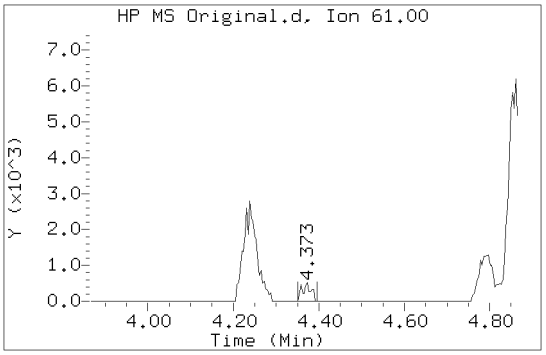

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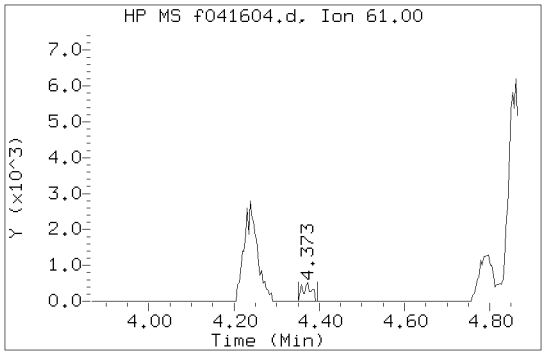

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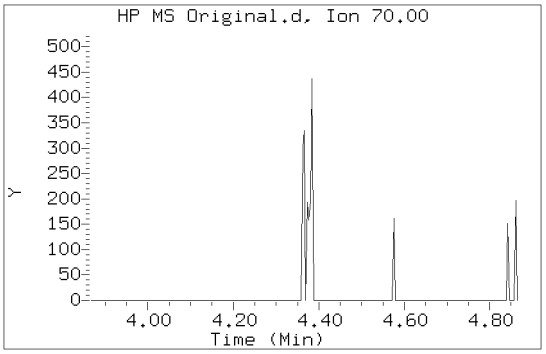

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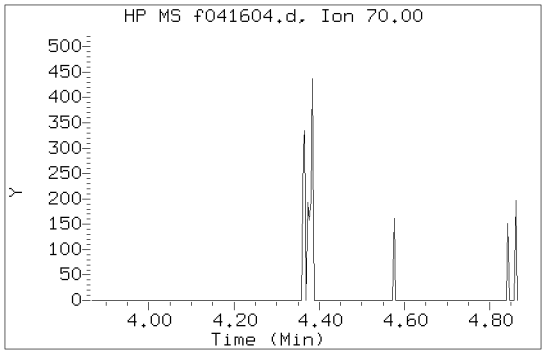

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Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

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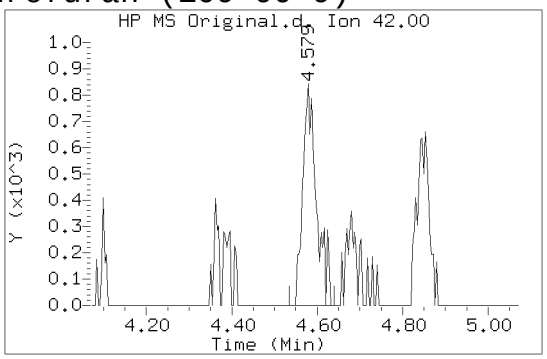

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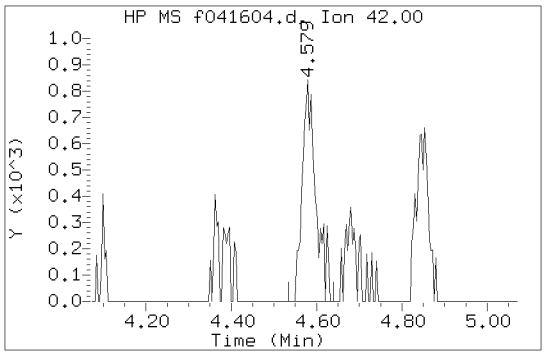

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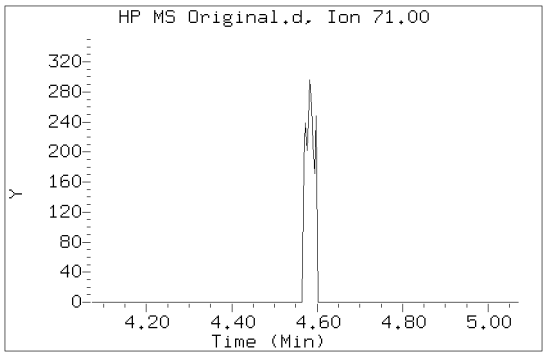

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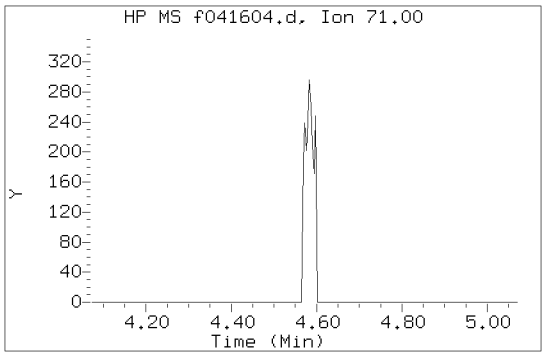

Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE

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22-Apr-2024
09:21
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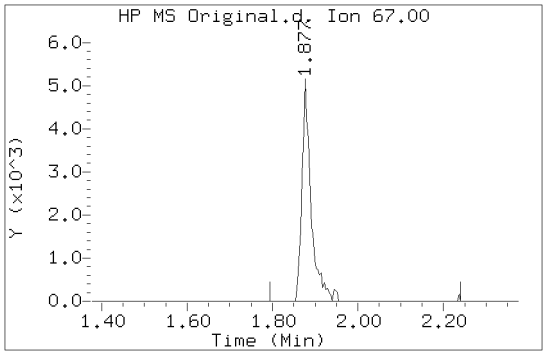

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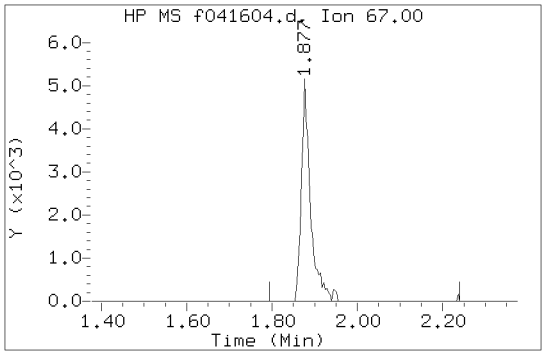

BEFORE

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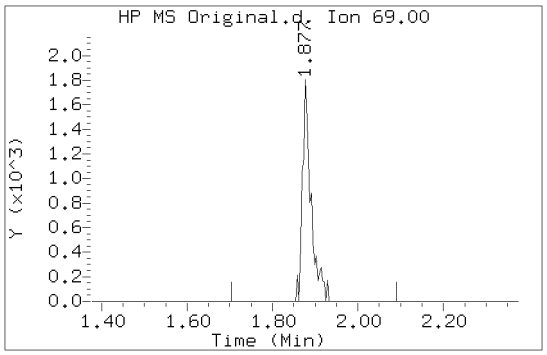

AFTER

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22-Apr-2024
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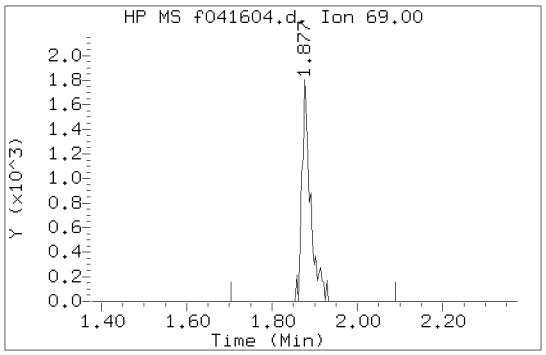

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Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE

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09:21
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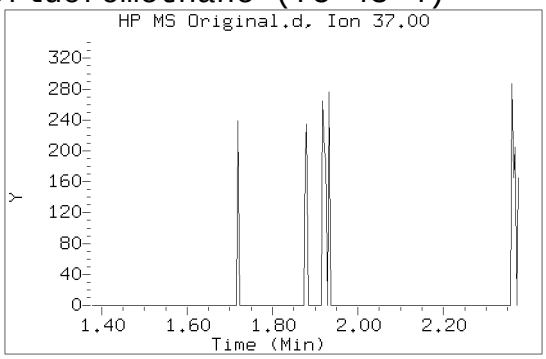

AFTER

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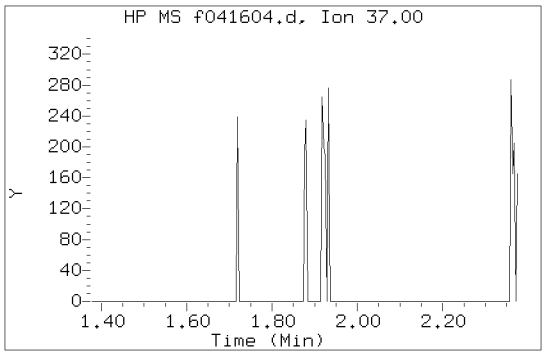

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D Page 1
Report Date: 22-Apr-2024 09:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
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Inj Date : 16-APR-2024 12:42
Operator : FT Inst ID: voa11.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:28 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 11:36 Cal File: F041602.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	498404	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	10462	2.00000	1.91
3	Chloromethane	50	1.306	1.306	(0.269)	19181	2.00000	1.99(a)
4	Propionitrile	54	4.347	4.347	(0.895)	24387	20.0000	19.34
5	Vinyl Chloride	62	1.389	1.389	(0.286)	10163	2.00000	1.91
6	Bromomethane	94	1.632	1.632	(0.336)	8598	2.00000	1.33(M)
7	Chloroethane	64	1.715	1.715	(0.353)	6948	2.00000	2.03
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	15953	2.00000	1.88
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	16436	2.00000	1.96(M)
9	Acrolein	56	2.281	2.281	(0.470)	1065	4.00000	5.49
10	Acetone	43	2.427	2.427	(0.500)	5418	4.00000	7.49
11	1,1-Dichloroethene	96	2.363	2.363	(0.487)	7640	2.00000	1.81
12	Isobutyl Alcohol	43	5.242	5.242	(1.079)	3413	40.0000	32.19(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	9618	20.0000	26.77
14	Allyl Chloride	41	2.705	2.705	(0.557)	23657	2.00000	4.08
15	Iodomethane	142	2.498	2.498	(0.515)	4741	4.00000	13.74(T)
16	Acrylonitrile	53	3.076	3.076	(0.633)	6525	4.00000	7.36
17	Methylene Chloride	84	2.825	2.825	(0.582)	14274	2.00000	2.35
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	15692	2.00000	4.56
19	Carbon Disulfide	76	2.555	2.555	(0.526)	45155	4.00000	3.52

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	8970	2.00000	1.93
21 Vinyl Acetate	43	3.661	3.661 (0.754)	23179	4.00000	6.68

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D Page 2
Report Date: 22-Apr-2024 09:28

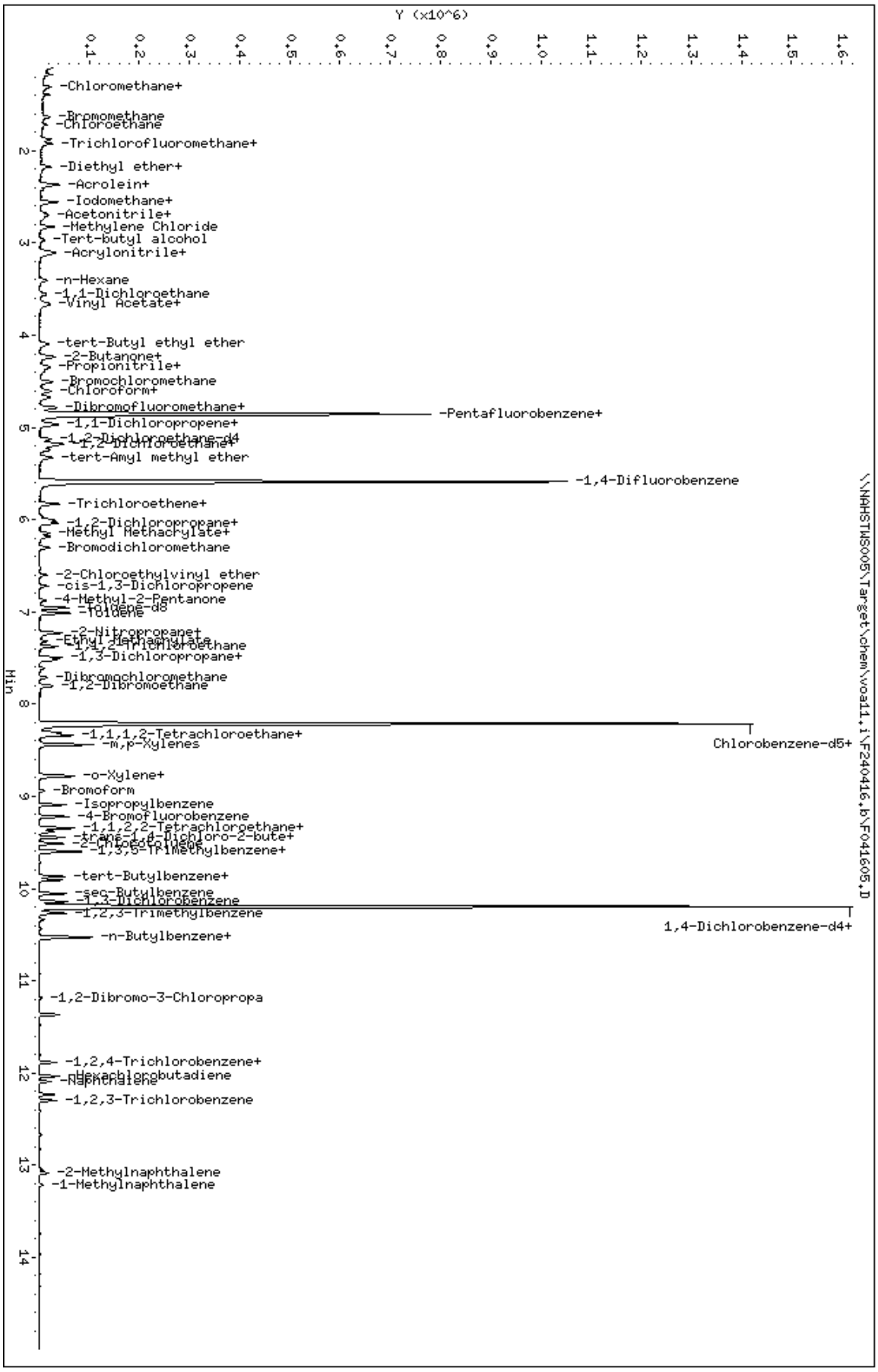
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.552	3.552	(0.731)	15266	2.00000	1.95
24	2-Butanone	43	4.279	4.279	(0.881)	4791	4.00000	8.10
25	Methacrylonitrile	41	4.238	4.238	(0.873)	7209	2.00000	1.94(a)
26	2,2-Dichloropropane	77	4.234	4.234	(0.872)	7416	2.00000	4.41
27	cis-1,2-Dichloroethene	96	4.242	4.242	(0.873)	9208	2.00000	1.86
28	Chloroform	83	4.609	4.609	(0.949)	18548	2.00000	2.05
29	Bromochloromethane	128	4.508	4.508	(0.928)	5900	2.00000	2.15
$ 30	Dibromofluoromethane	113	4.781	4.781	(0.985)	12032	2.00000	2.78
31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	13038	2.00000	1.82
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	11314	2.00000	1.89
33	1,2-Dichloroethane	62	5.201	5.201	(0.931)	15830	2.00000	2.01
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	11131	2.00000	1.76
$ 35	1,2-Dichloroethane-d4	65	5.123	5.123	(1.055)	16251	2.00000	2.80
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	755927	50.0000	
37	Benzene	78	5.182	5.182	(0.928)	36308	2.00000	1.96
38	Trichloroethene	130	5.827	5.827	(1.043)	10383	2.00000	1.87
39	Bromodichloromethane	83	6.300	6.300	(1.127)	11352	2.00000	1.79
40	Methyl Methacrylate	41	6.183	6.183	(1.273)	9015	2.00000	4.10
41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	5346	4.00000	7.67
42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	9107	2.00000	1.91
43	2-Nitropropane	43	7.229	7.229	(1.489)	9178	2.00000	1.75(a)
44	Dibromomethane	93	6.146	6.146	(1.100)	6885	2.00000	1.99
45	4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	9250	4.00000	4.28
46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	8599	2.00000	3.86
* 47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	652644	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	34119	2.00000	1.56
49	Ethyl Methacrylate	69	7.319	7.319	(1.310)	5726	2.00000	2.39
50	Toluene	91	7.012	7.012	(0.854)	33909	2.00000	2.45
51	trans-1,3-Dichloropropene	75	7.222	7.222	(1.292)	6453	2.00000	2.75
52	2-Hexanone	43	7.229	7.229	(0.880)	9178	4.00000	3.75
53	1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	8235	2.00000	2.20
54	1,3-Dichloropropane	76	7.518	7.518	(0.915)	14783	2.00000	1.99
55	Dibromochloromethane	129	7.713	7.713	(0.939)	7367	2.00000	4.33
56	Tetrachloroethene	164	7.495	7.495	(0.912)	8953	2.00000	2.04
57	1,2-Dibromoethane	107	7.810	7.810	(0.951)	8100	2.00000	2.82
58	1-Chlorohexane	55	8.223	8.223	(1.472)	12479	2.00000	2.47
59	Chlorobenzene	112	8.234	8.234	(1.002)	30203	2.00000	2.17
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	8324	2.00000	1.89
61	Ethylbenzene	106	8.343	8.343	(1.016)	11351	2.00000	1.85
62	m,p-Xylenes	106	8.440	8.440	(1.027)	25748	4.00000	3.35
63	o-Xylene	106	8.777	8.777	(1.068)	11438	2.00000	2.59
64	Styrene	104	8.789	8.789	(1.070)	17072	2.00000	2.22
66	Bromoform	173	8.939	8.939	(1.088)	4037	2.00000	2.19(T)
67	Isopropylbenzene	105	9.092	9.092	(1.107)	26322	2.00000	2.42
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	12343	2.00000	2.10
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.122)	15286	2.00000	2.63
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	350589	50.0000	
71	1,2,3-Trichloropropane	75	9.385	9.385	(0.920)	10250	2.00000	1.95
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	1386	2.00000	1.93
73	n-Propylbenzene	91	9.445	9.445	(0.926)	30533	2.00000	2.65
74	Bromobenzene	156	9.347	9.347	(0.917)	9837	2.00000	3.46
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	21560	2.00000	2.63

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	21820	2.00000	2.76
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	25497	2.00000	2.30

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.868	9.868	(0.968)	18499	2.00000	3.22
79 1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	20175	2.00000	2.79
81 sec-Butylbenzene	105	10.052	10.052	(0.986)	26231	2.00000	3.10
82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	22768	2.00000	3.03
83 1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	19812	2.00000	2.00
84 1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	23793	2.00000	2.10
87 n-Butylbenzene	91	10.524	10.524	(1.032)	21361	2.00000	3.43
88 1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	18973	2.00000	1.88
89 1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	932	2.00000	2.28
90 1,2,4-Trichlorobenzene	180	11.885	11.885	(1.165)	8865	2.00000	1.51
91 Hexachlorobutadiene	225	12.035	12.035	(1.180)	6223	2.00000	1.84
92 Naphthalene	128	12.095	12.095	(1.186)	13763	2.00000	2.56
93 1,2,3-Trichlorobenzene	180	12.301	12.301	(1.206)	8811	2.00000	1.60
146 Methyl acetate	43	2.731	2.731	(0.562)	9243	2.00000	1.87(a)
138 Freon TF	101	2.367	2.367	(0.488)	9349	2.00000	1.84
139 Diethyl ether	59	2.172	2.172	(0.447)	11370	2.00000	1.92(T)
141 Cyclohexane	56	4.849	4.849	(0.998)	19375	2.00000	2.37
147 Methylcyclohexane	55	6.000	6.000	(1.074)	8800	2.00000	1.27
132 n-Butanol	56	5.816	5.816	(1.198)	1923	40.0000	58.57
131 Methyl Acrylate	55	4.339	4.339	(0.893)	4132	2.00000	3.21(M)
133 Ethyl Acrylate	55	5.970	5.970	(1.229)	5683	2.00000	5.34(M)
135 1,4-Dioxane	88	6.191	6.191	(1.275)	1413	40.0000	38.54(M)
136 n-Hexane	57	3.409	3.409	(0.702)	6703	2.00000	2.69(T)
142 Tetrahydrofuran	42	4.579	4.579	(0.943)	3343	4.00000	4.99
148 Tert-butyl alcohol	59	2.967	2.967	(0.611)	7214	40.0000	55.72
149 Isopropyl alcohol	45	2.570	2.570	(0.529)	6079	40.0000	53.37(T)
151 4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	12463	40.0000	45.06
166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	23974	2.00000	2.96
167 Ethanol	45	2.094	2.094	(0.431)	2166	40.0000	23.48(M)
170 1,3,5-Trichlorobenzene	180	11.885	11.885	(1.165)	8865	2.00000	1.51
172 tert-Butyl formate	59	5.246	5.246	(1.080)	4988	4.00000	5.30(M)
174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	12205	2.00000	5.04(T)
175 tert-Butyl ethyl ether	59	4.092	4.092	(0.843)	14344	2.00000	4.54
160 2-Methylnaphthalene	142	13.051	13.051	(1.280)	3182	2.00000	3.82
156 Diisopropyl ether	45	3.672	3.672	(0.756)	17323	2.00000	2.49(T)
180 1-Methylnaphthalene	142	13.216	13.216	(1.296)	3696	2.00000	2.86
130 Ethyl Acetate	43	4.369	4.369	(0.900)	12155	2.00000	3.99(a)
176 tert-Amyl alcohol	59	5.246	5.246	(1.080)	4942	40.0000	53.38

QC Flag Legend

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



Data File: \\NAHSTNS005\Target\chem\voa11.i\F240416.b\F041605.D
Date : 16-APR-2024 12:42
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

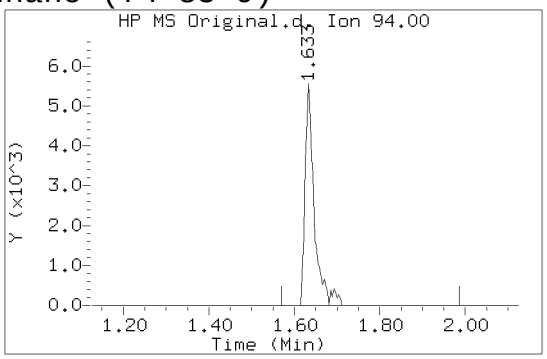
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

Bromomethane (74-83-9)

Reason Code:

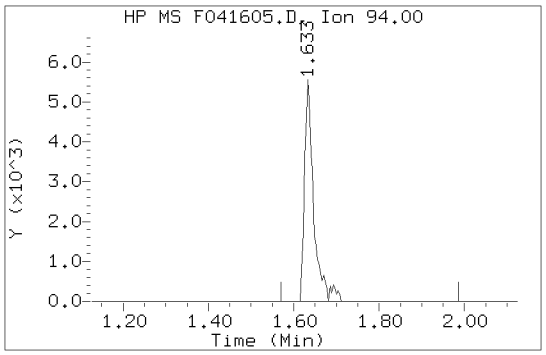
BEFORE

MASS
94
AREA
8598
HEIGHT
5557
22-Apr-2024
09:28
salina
zaid



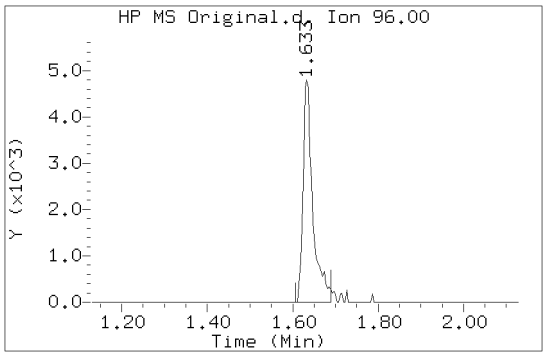
AFTER

MASS
94
AREA
8598
HEIGHT
5557
22-Apr-2024
09:28
salina
zaid



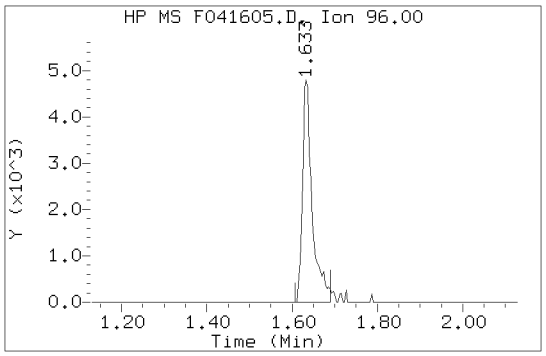
BEFORE

MASS
96
AREA
7790
HEIGHT
4799
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
96
AREA
7790
HEIGHT
4799
22-Apr-2024
09:28
salina
zaid

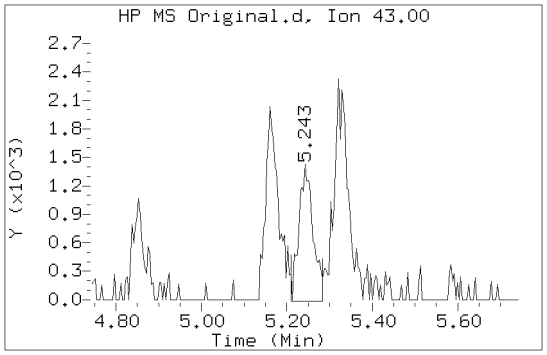


Isobutyl Alcohol (78-83-1)

Reason Code:

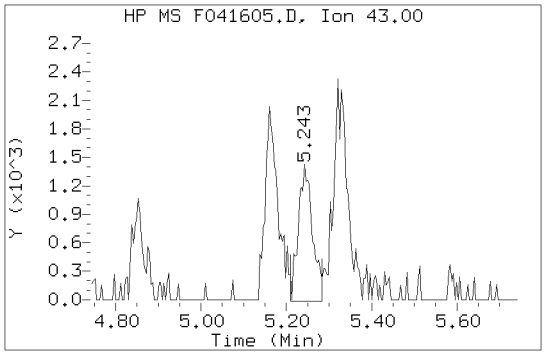
BEFORE

MASS
43
AREA
3413
HEIGHT
1442
22-Apr-2024
09:28
salina
zaid



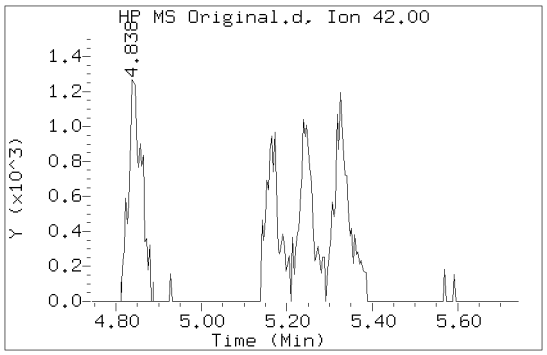
AFTER

MASS
43
AREA
3413
HEIGHT
1442
22-Apr-2024
09:28
salina
zaid



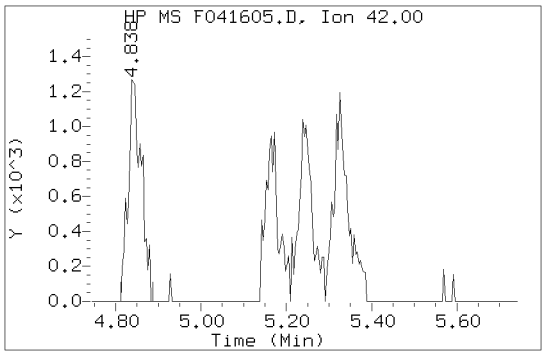
BEFORE

MASS
42
AREA
2723
HEIGHT
1268
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
42
AREA
2723
HEIGHT
1268
22-Apr-2024
09:28
salina
zaid



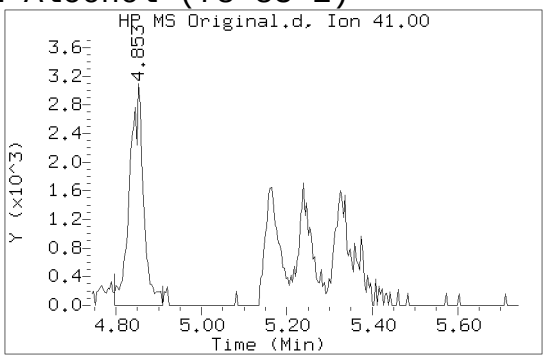
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

Reason Code:

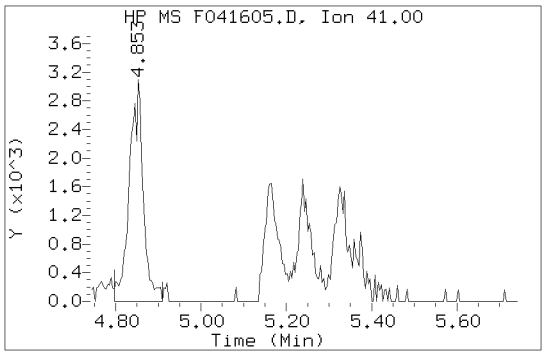
BEFORE

MASS
41
AREA
6971
HEIGHT
3096
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
41
AREA
6971
HEIGHT
3096
22-Apr-2024
09:28
salina
zaid

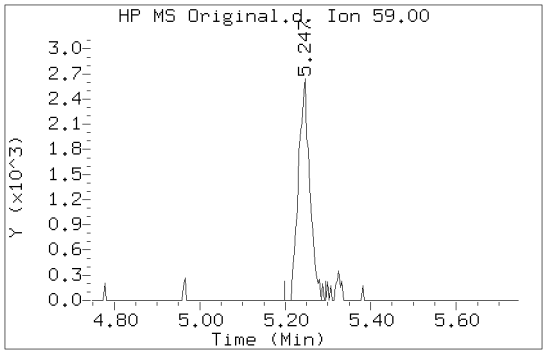


tert-Butyl formate (762-75-4)

Reason Code:

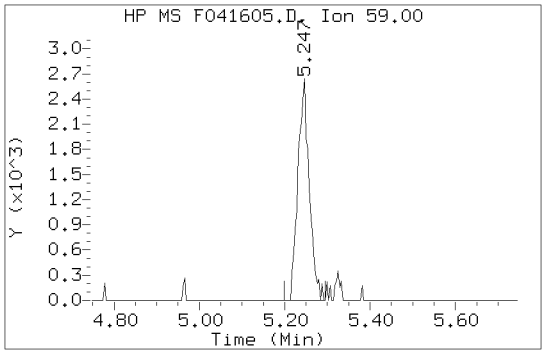
BEFORE

MASS
59
AREA
4988
HEIGHT
2643
22-Apr-2024
09:28
salina
zaid



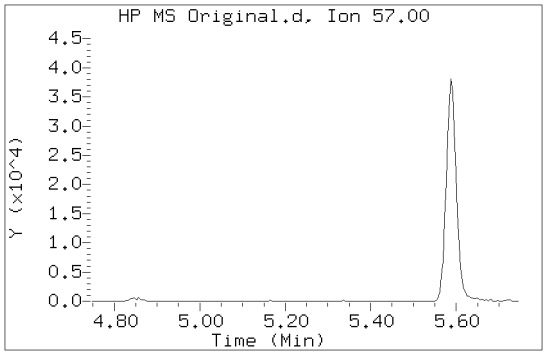
AFTER

MASS
59
AREA
4988
HEIGHT
2643
22-Apr-2024
09:28
salina
zaid



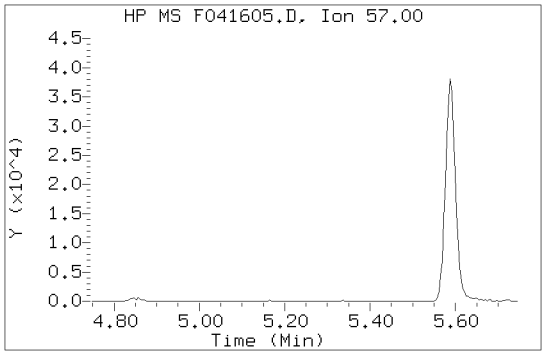
BEFORE

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



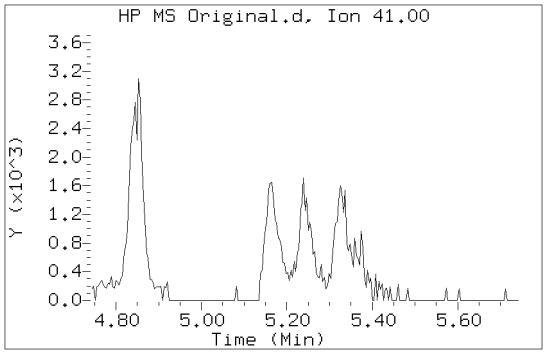
AFTER

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



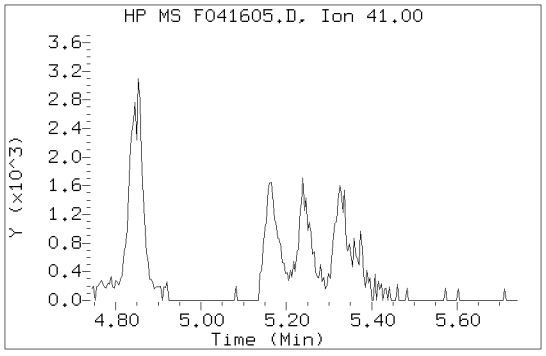
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



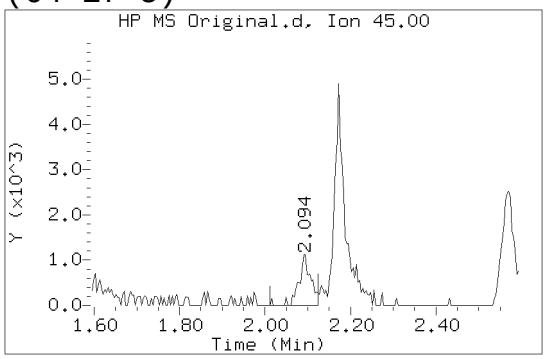
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

Ethanol (64-17-5)

Reason Code:

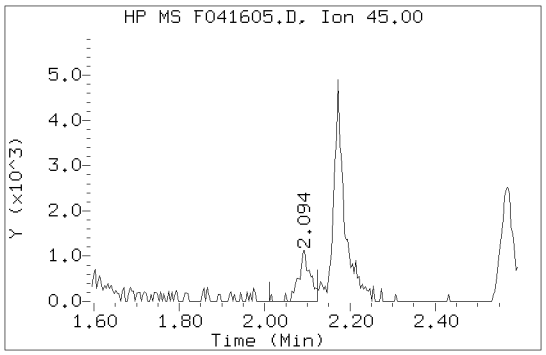
BEFORE

MASS
45
AREA
2166
HEIGHT
1125
22-Apr-2024
09:28
salina
zaid



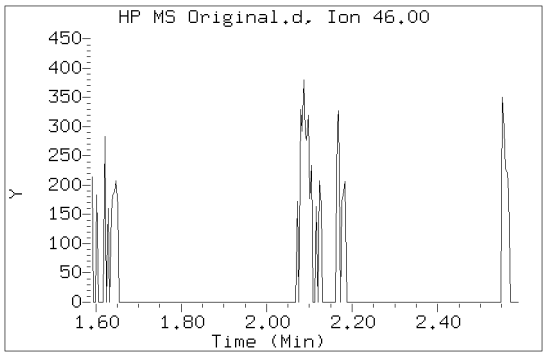
AFTER

MASS
45
AREA
2166
HEIGHT
1125
22-Apr-2024
09:28
salina
zaid



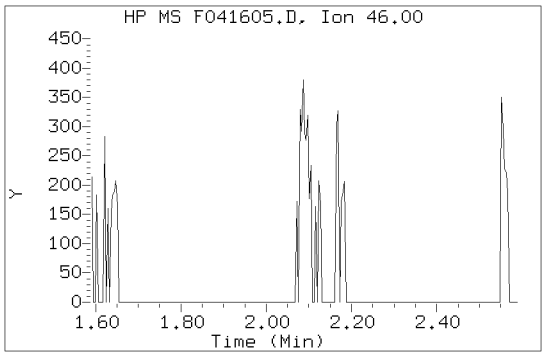
BEFORE

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



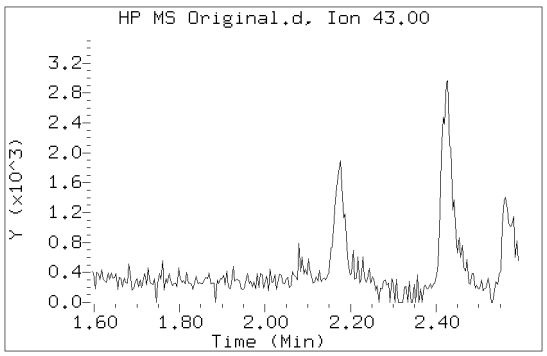
AFTER

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



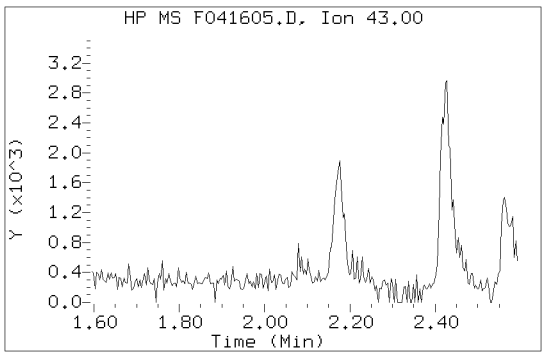
BEFORE

MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid

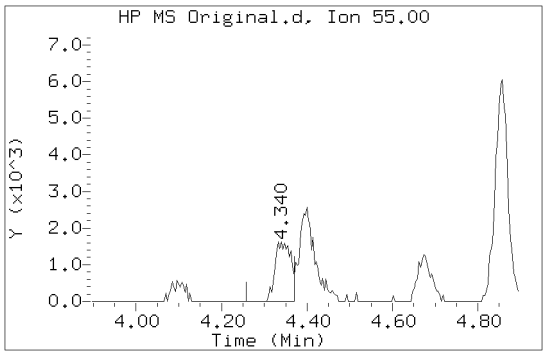


Methyl Acrylate (96-33-3)

Reason Code:

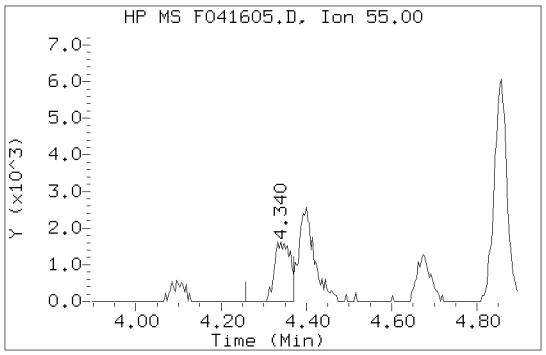
BEFORE

MASS
55
AREA
4132
HEIGHT
1625
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
55
AREA
4132
HEIGHT
1625
22-Apr-2024
09:28
salina
zaid



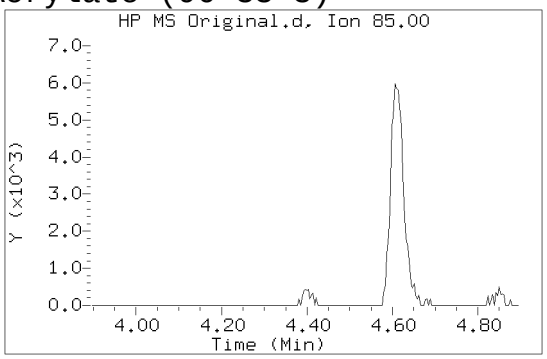
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

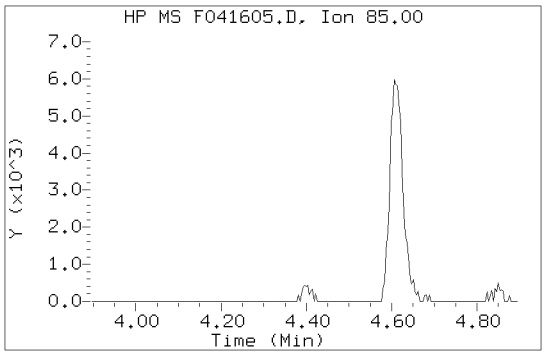
BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid

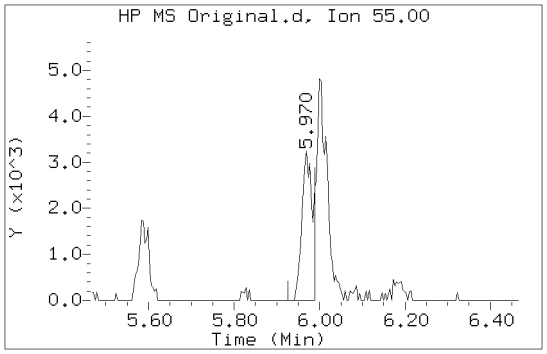


Ethyl Acrylate (140-88-5)

Reason Code:

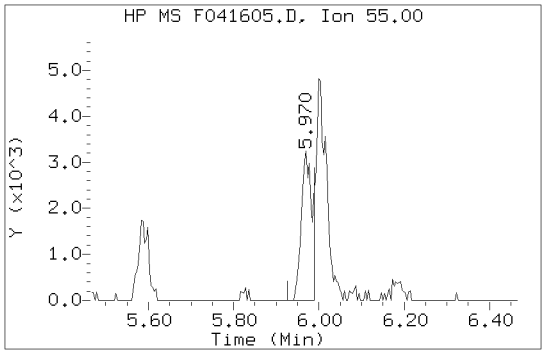
BEFORE

MASS
55
AREA
5683
HEIGHT
3240
22-Apr-2024
09:28
salina
zaid



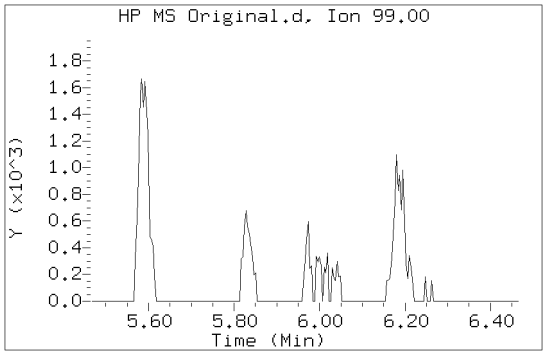
AFTER

MASS
55
AREA
5683
HEIGHT
3240
22-Apr-2024
09:28
salina
zaid



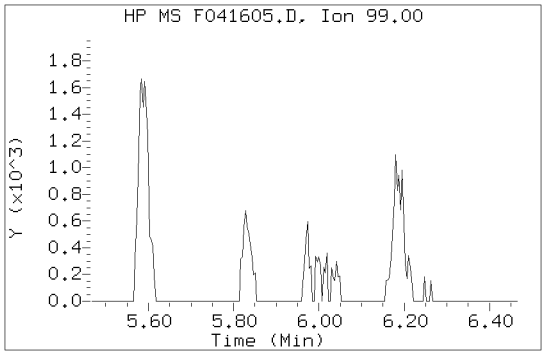
BEFORE

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid

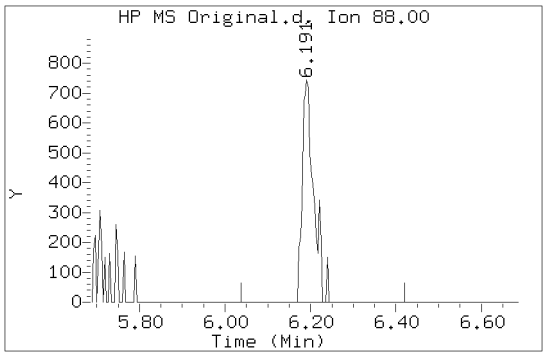


1,4-Dioxane ()

Reason Code:

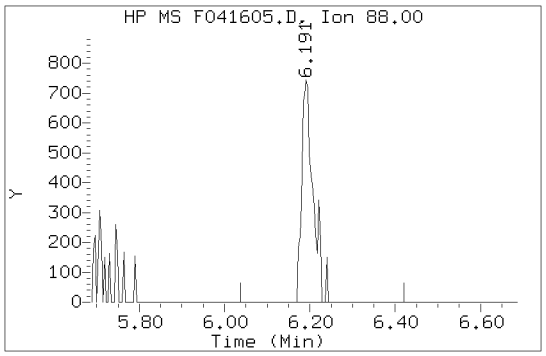
BEFORE

MASS
88
AREA
1413
HEIGHT
744
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
88
AREA
1413
HEIGHT
744
22-Apr-2024
09:28
salina
zaid



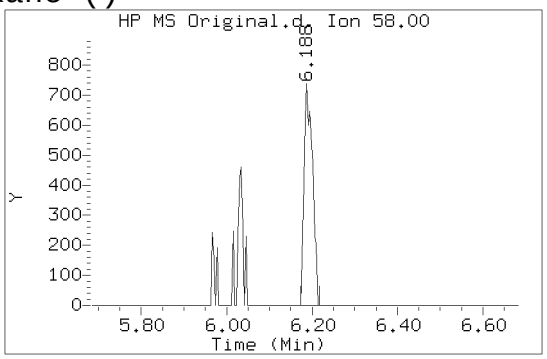
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

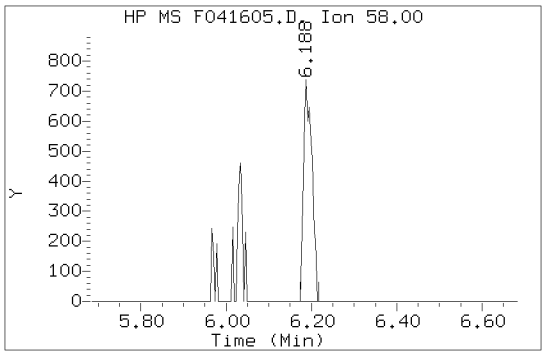
BEFORE

MASS
58
AREA
1036
HEIGHT
738
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
58
AREA
1036
HEIGHT
738
22-Apr-2024
09:28
salina
zaid

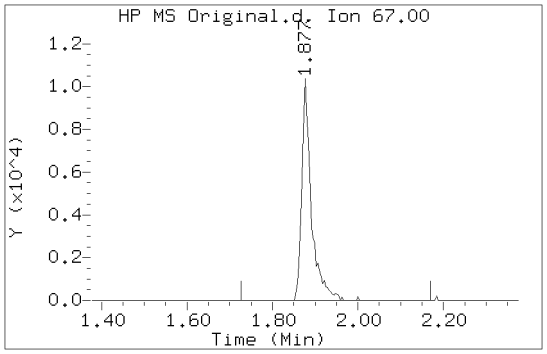


Dichlorofluoromethane (75-43-4)

Reason Code:

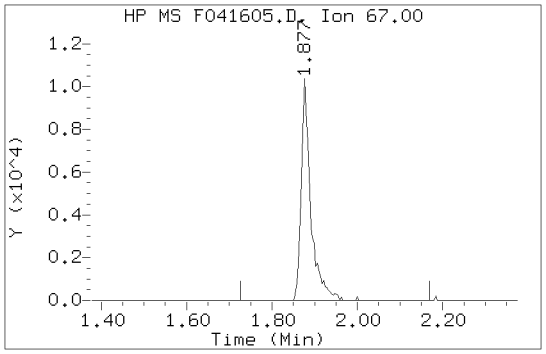
BEFORE

MASS
67
AREA
16436
HEIGHT
10363
22-Apr-2024
09:28
salina
zaid



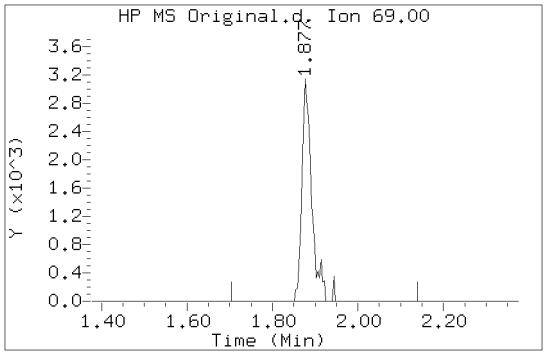
AFTER

MASS
67
AREA
16436
HEIGHT
10363
22-Apr-2024
09:28
salina
zaid



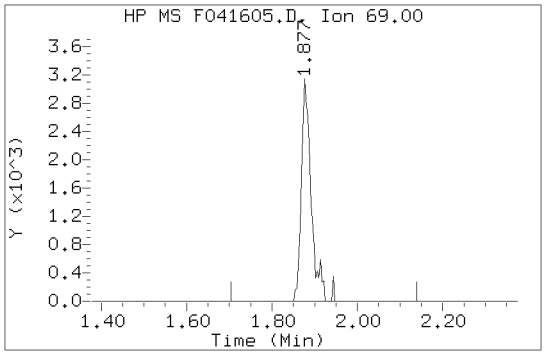
BEFORE

MASS
69
AREA
5118
HEIGHT
3145
22-Apr-2024
09:28
salina
zaid



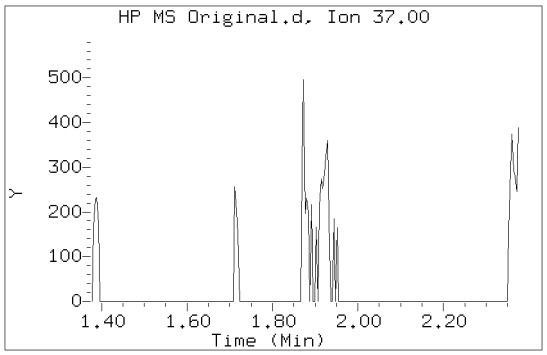
AFTER

MASS
69
AREA
5118
HEIGHT
3145
22-Apr-2024
09:28
salina
zaid



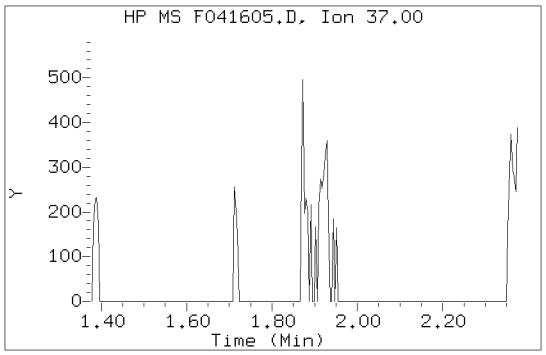
BEFORE

MASS
37
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
37
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041606.D Page 1
Report Date: 22-Apr-2024 09:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041606.D
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Inj Date : 16-APR-2024 13:04
Operator : FT Inst ID: voa11.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 22-Apr-2024 09:28 voa11.i Quant Type: ISTD
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Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.860	4.860	(1.000)	479446	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.241)	28742	5.00000	5.47
3	Chloromethane	50	1.307	1.307	(0.269)	45335	5.00000	4.89(a)
4	Propionitrile	54	4.339	4.339	(0.893)	60295	50.0000	49.71
5	Vinyl Chloride	62	1.389	1.389	(0.286)	26319	5.00000	5.14
6	Bromomethane	94	1.633	1.633	(0.336)	20507	5.00000	5.71(M)
7	Chloroethane	64	1.719	1.719	(0.354)	18233	5.00000	5.55
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	43935	5.00000	5.39
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	42352	5.00000	5.26
9	Acrolein	56	2.277	2.277	(0.469)	3130	10.0000	10.41
10	Acetone	43	2.420	2.420	(0.498)	13560	10.0000	13.44
11	1,1-Dichloroethene	96	2.364	2.364	(0.486)	19505	5.00000	4.81
12	Isobutyl Alcohol	43	5.239	5.239	(1.078)	7294	100.000	91.10(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	24918	50.0000	53.36
14	Allyl Chloride	41	2.705	2.705	(0.557)	54231	5.00000	6.64
15	Iodomethane	142	2.499	2.499	(0.514)	10868	10.0000	15.77
16	Acrylonitrile	53	3.080	3.080	(0.634)	16135	10.0000	12.43
17	Methylene Chloride	84	2.828	2.828	(0.582)	29130	5.00000	5.30
18	Methyl tert-butyl ether	73	3.117	3.117	(0.641)	38846	5.00000	6.46
19	Carbon Disulfide	76	2.555	2.555	(0.526)	117015	10.0000	9.48

20	trans-1,2-Dichloroethene	96	3.102	3.102 (0.638)	22107	5.00000	4.96
21	Vinyl Acetate	43	3.661	3.661 (0.753)	59743	10.0000	10.89

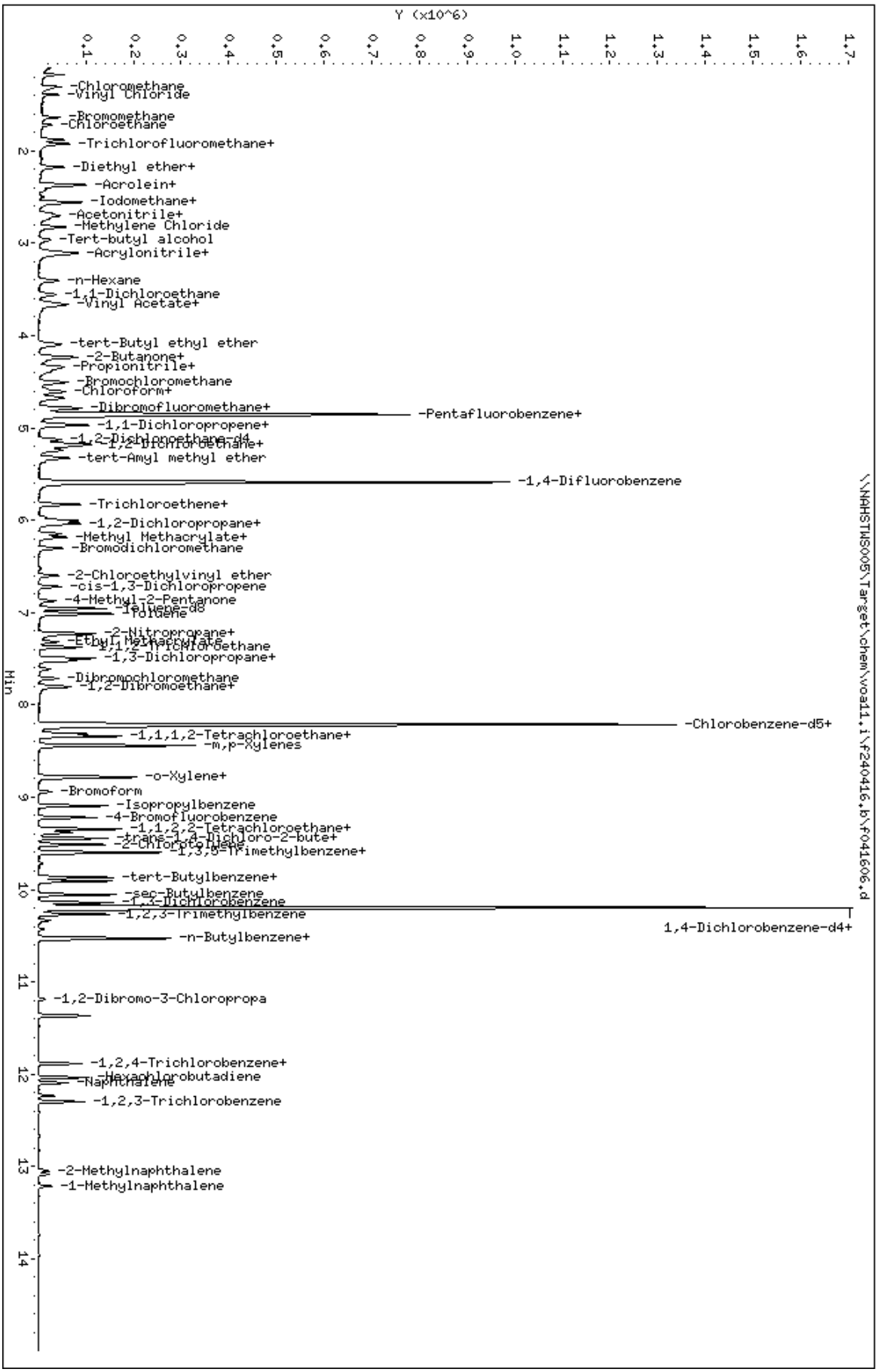
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.552	3.552	(0.731)	38193	5.00000	5.07
24	2-Butanone	43	4.283	4.283	(0.881)	13698	10.0000	12.85
25	Methacrylonitrile	41	4.234	4.234	(0.871)	18419	5.00000	5.16
26	2,2-Dichloropropane	77	4.234	4.234	(0.871)	20138	5.00000	6.66
27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.871)	23962	5.00000	5.03
28	Chloroform	83	4.605	4.605	(0.948)	44394	5.00000	5.11
29	Bromochloromethane	128	4.504	4.504	(0.927)	13930	5.00000	5.29
$ 30	Dibromofluoromethane	113	4.778	4.778	(0.983)	25667	5.00000	5.77
31	1,1,1-Trichloroethane	97	4.793	4.793	(0.986)	34048	5.00000	4.96
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	27817	5.00000	5.06
33	1,2-Dichloroethane	62	5.201	5.201	(0.931)	37693	5.00000	5.20
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	28905	5.00000	4.98
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.055)	33215	5.00000	5.83
* 36	1,4-Difluorobenzene	114	5.588	5.588	(1.000)	695692	50.0000	
37	Benzene	78	5.183	5.183	(0.928)	85083	5.00000	4.99
38	Trichloroethene	130	5.831	5.831	(1.044)	24127	5.00000	4.74
39	Bromodichloromethane	83	6.307	6.307	(1.129)	28190	5.00000	4.83
40	Methyl Methacrylate	41	6.184	6.184	(1.272)	22679	5.00000	5.75
41	2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	14311	10.0000	10.74
42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	21456	5.00000	4.90
43	2-Nitropropane	43	7.229	7.229	(1.487)	22245	5.00000	4.43(a)
44	Dibromomethane	93	6.146	6.146	(1.100)	15443	5.00000	4.86
45	4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	24208	10.0000	9.56(M)
46	cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	20368	5.00000	5.46
* 47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	597913	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	75524	5.00000	4.81
49	Ethyl Methacrylate	69	7.319	7.319	(1.310)	18397	5.00000	4.55
50	Toluene	91	7.012	7.012	(0.854)	85844	5.00000	5.51
51	trans-1,3-Dichloropropene	75	7.222	7.222	(1.292)	18069	5.00000	4.77
52	2-Hexanone	43	7.229	7.229	(0.880)	22245	10.0000	9.94
53	1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	18167	5.00000	5.31
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	35213	5.00000	5.18
55	Dibromochloromethane	129	7.713	7.713	(0.939)	18107	5.00000	6.50
56	Tetrachloroethene	164	7.496	7.496	(0.912)	20904	5.00000	5.21
57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	20733	5.00000	5.63
58	1-Chlorohexane	55	8.227	8.227	(1.472)	22923	5.00000	5.20
59	Chlorobenzene	112	8.238	8.238	(1.003)	66132	5.00000	5.19
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	20115	5.00000	5.00
61	Ethylbenzene	106	8.339	8.339	(1.015)	29924	5.00000	5.32
62	m,p-Xylenes	106	8.440	8.440	(1.027)	75315	10.0000	10.08
63	o-Xylene	106	8.778	8.778	(1.068)	31933	5.00000	5.39
64	Styrene	104	8.789	8.789	(1.070)	50772	5.00000	4.91
66	Bromoform	173	8.939	8.939	(1.088)	10400	5.00000	5.02(T)
67	Isopropylbenzene	105	9.096	9.096	(1.107)	70937	5.00000	4.82
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	28983	5.00000	4.74
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.122)	30658	5.00000	5.58
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	364681	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	25325	5.00000	4.63
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	4003	5.00000	4.62
73	n-Propylbenzene	91	9.441	9.441	(0.926)	90213	5.00000	4.97
74	Bromobenzene	156	9.344	9.344	(0.916)	24475	5.00000	5.70
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	65820	5.00000	4.83

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	62639	5.00000	5.34
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	76551	5.00000	4.98

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.869	9.869	(0.968)	55815	5.00000	5.36
79 1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	66791	5.00000	5.16
81 sec-Butylbenzene	105	10.056	10.056	(0.986)	78890	5.00000	5.27
82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	72059	5.00000	5.29
83 1,3-Dichlorobenzene	146	10.146	10.146	(0.995)	52524	5.00000	5.12
84 1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	58897	5.00000	5.01
87 n-Butylbenzene	91	10.528	10.528	(1.032)	54830	5.00000	5.21
88 1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	51790	5.00000	4.93
89 1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	2547	5.00000	4.41
90 1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	22937	5.00000	3.75
91 Hexachlorobutadiene	225	12.035	12.035	(1.180)	16417	5.00000	4.69
92 Naphthalene	128	12.095	12.095	(1.186)	39409	5.00000	4.14
93 1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	23869	5.00000	3.92
146 Methyl acetate	43	2.735	2.735	(0.563)	20363	5.00000	4.30(a)
138 Freon TF	101	2.375	2.375	(0.489)	25603	5.00000	5.24
139 Diethyl ether	59	2.172	2.172	(0.447)	27953	5.00000	4.92
141 Cyclohexane	56	4.845	4.845	(0.997)	37347	5.00000	5.24
147 Methylcyclohexane	55	6.007	6.007	(1.075)	24271	5.00000	4.33
132 n-Butanol	56	5.827	5.827	(1.199)	4404	100.000	95.68
131 Methyl Acrylate	55	4.395	4.395	(0.904)	15690	5.00000	5.71
133 Ethyl Acrylate	55	5.966	5.966	(1.228)	13409	5.00000	6.60
135 1,4-Dioxane	88	6.191	6.191	(1.274)	3091	100.000	74.46
136 n-Hexane	57	3.402	3.402	(0.700)	17984	5.00000	4.98
142 Tetrahydrofuran	42	4.572	4.572	(0.941)	8260	10.0000	9.39
148 Tert-butyl alcohol	59	2.963	2.963	(0.610)	18758	100.000	106.00
149 Isopropyl alcohol	45	2.562	2.562	(0.527)	12007	100.000	86.74(T)
151 4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	33069	100.000	82.27
166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	66355	5.00000	5.31
167 Ethanol	45	2.097	2.097	(0.432)	5038	100.000	102.87
170 1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	22937	5.00000	3.75
172 tert-Butyl formate	59	5.243	5.243	(1.079)	11230	10.0000	9.61(M)
173 3,3-Dimethyl-1-butanol	57	7.796	7.796	(0.949)	20350	100.000	79.81
174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	32019	5.00000	6.81
175 tert-Butyl ethyl ether	59	4.092	4.092	(0.842)	37670	5.00000	6.49
160 2-Methylnaphthalene	142	13.047	13.047	(1.279)	8493	5.00000	4.80
156 Diisopropyl ether	45	3.664	3.664	(0.754)	49397	5.00000	4.87(T)
180 1-Methylnaphthalene	142	13.209	13.209	(1.295)	11279	5.00000	4.28
130 Ethyl Acetate	43	4.365	4.365	(0.898)	29708	5.00000	6.00
176 tert-Amyl alcohol	59	5.243	5.243	(1.079)	11274	100.000	97.22

QC Flag Legend

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



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Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Inj Date : 16-APR-2024 13:04
InstruID : voa11.i
LabSampID : VSTD005

Bromomethane (74-83-9)

Reason Code:

BEFORE

MASS
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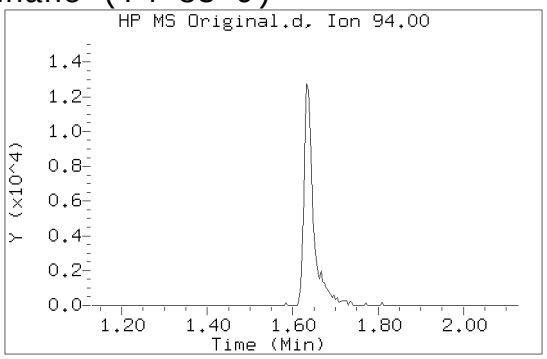
AREA
20507
HEIGHT
12755
22-Apr-2024
09:28
salina
zaid



AFTER

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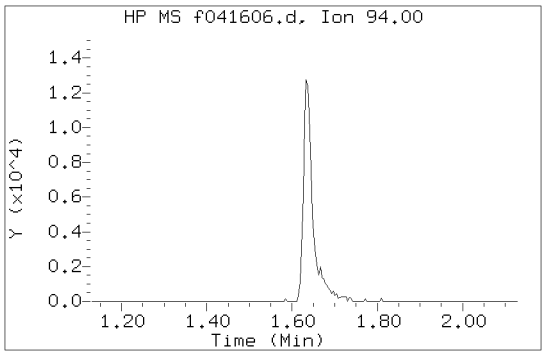

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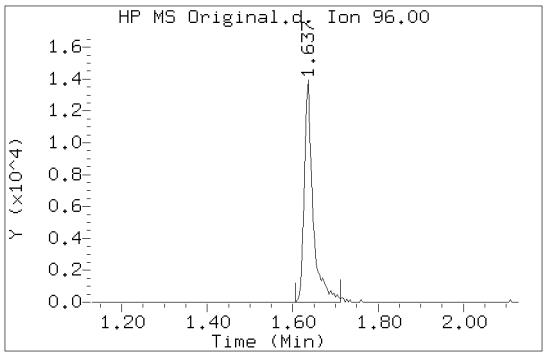

AFTER

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22-Apr-2024
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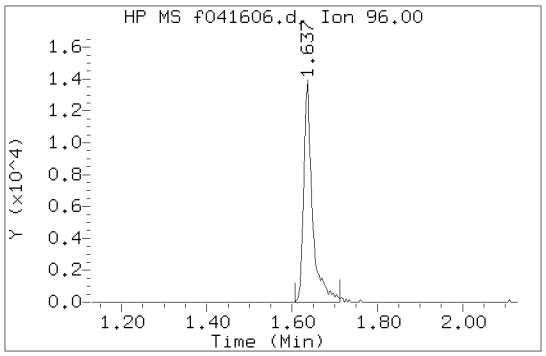

Isobutyl Alcohol (78-83-1)

Reason Code:

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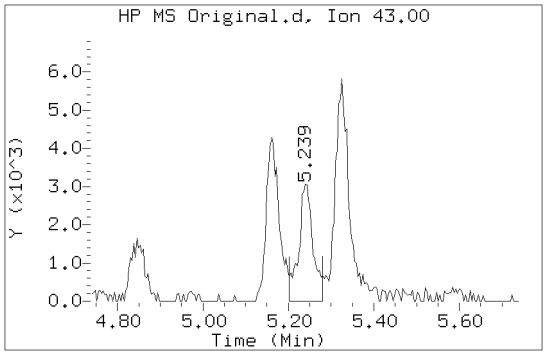

AFTER

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22-Apr-2024
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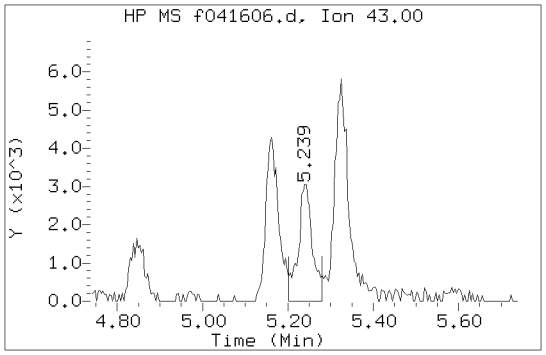

BEFORE

MASS
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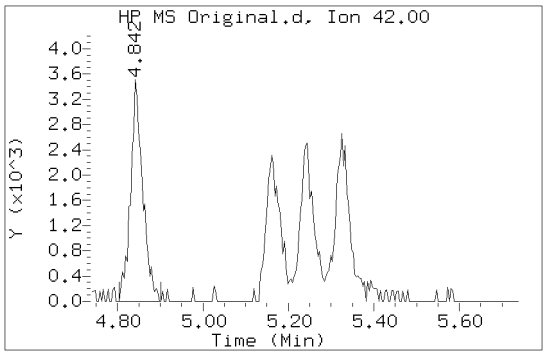
09:28
salina
zaid



AFTER

MASS
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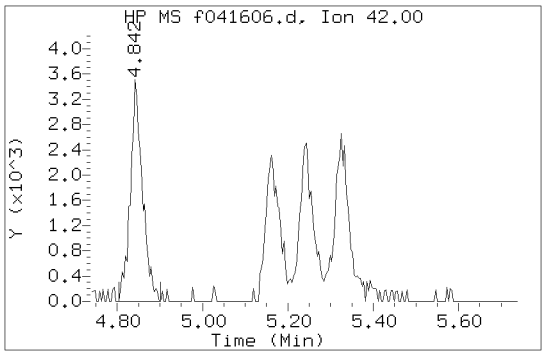

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Inj Date : 16-APR-2024 13:04
InstruID : voa11.i
LabSampID : VSTD005

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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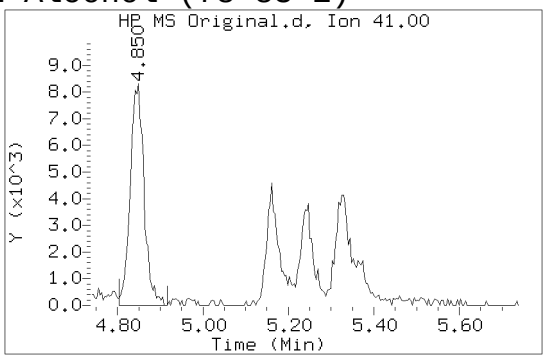
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
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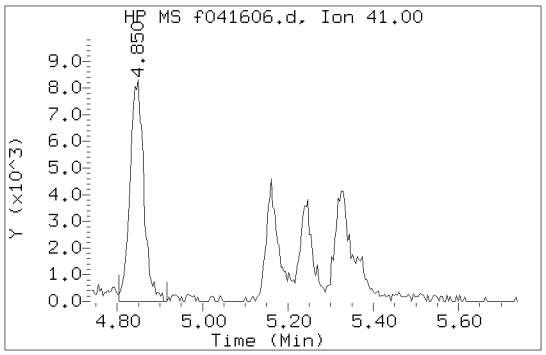

4-Methyl-2-Pentanone (108-10-1)

Reason Code:

BEFORE

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HEIGHT
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22-Apr-2024
09:28
salina
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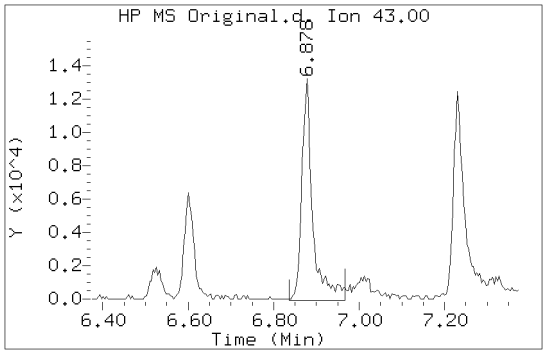

AFTER

MASS
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22-Apr-2024
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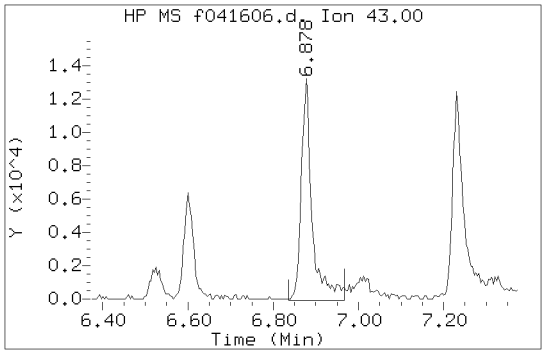

BEFORE

MASS
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HEIGHT
4838
22-Apr-2024
09:28
salina
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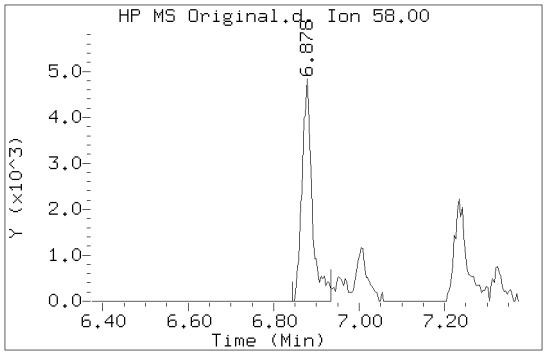

AFTER

MASS
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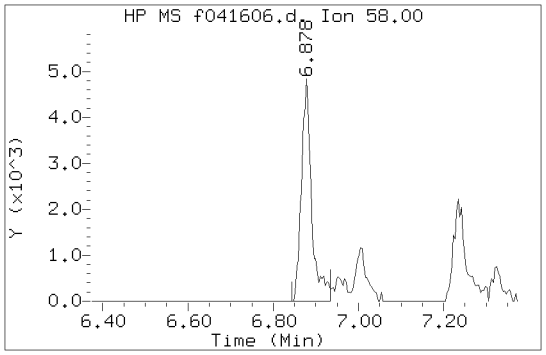

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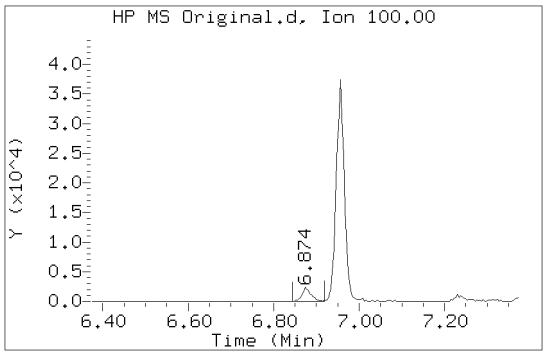

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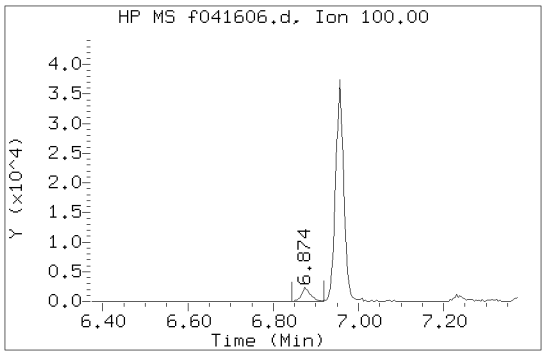

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Reason Code:

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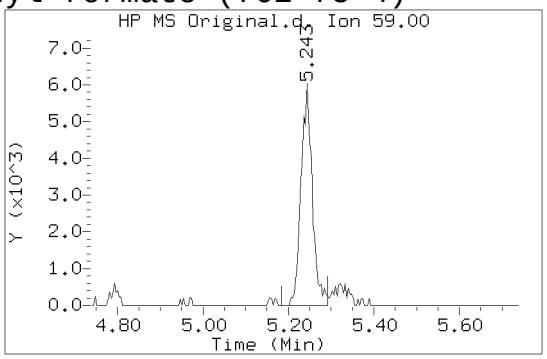

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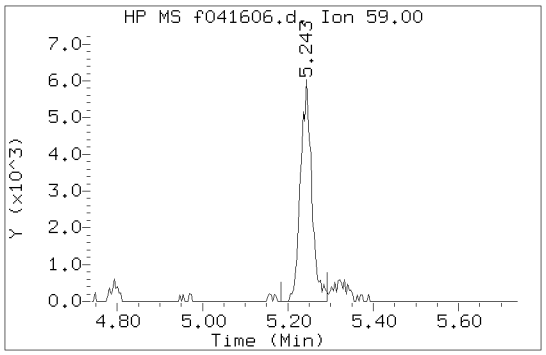

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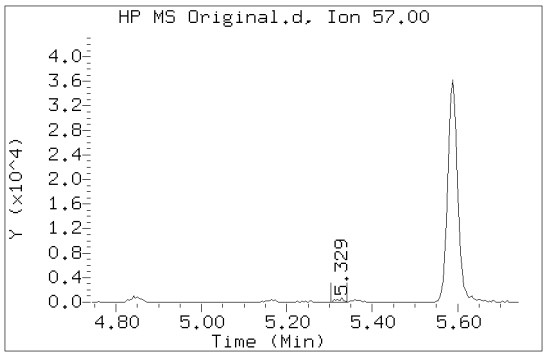

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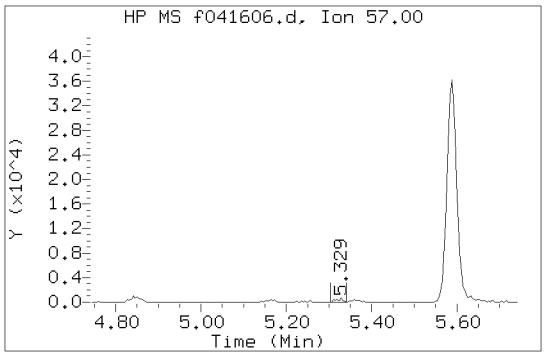

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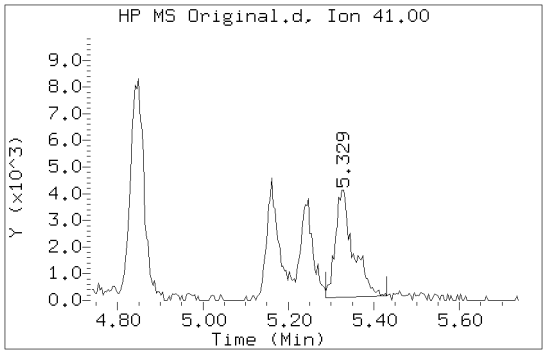

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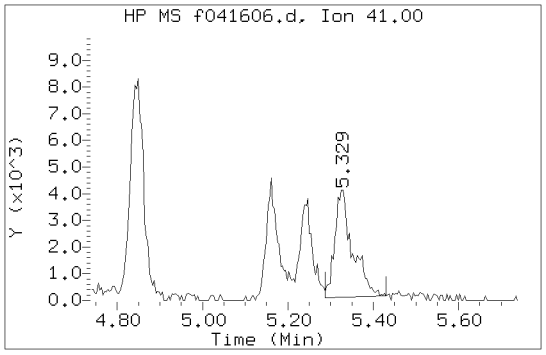

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Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D
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Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	481388	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	54458	10.0000	10.32
3	Chloromethane	50	1.306	1.306	(0.269)	91852	10.0000	9.88
4	Propionitrile	54	4.343	4.343	(0.894)	131124	100.000	107.68
5	Vinyl Chloride	62	1.389	1.389	(0.286)	51842	10.0000	10.10
6	Bromomethane	94	1.636	1.636	(0.337)	37896	10.0000	11.83(M)
7	Chloroethane	64	1.719	1.719	(0.354)	34730	10.0000	10.53
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	83313	10.0000	10.19
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	81747	10.0000	10.11
9	Acrolein	56	2.277	2.277	(0.469)	6816	20.0000	18.91(M)
10	Acetone	43	2.423	2.423	(0.499)	24781	20.0000	21.36
11	1,1-Dichloroethene	96	2.367	2.367	(0.487)	41328	10.0000	10.15
12	Isobutyl Alcohol	43	5.242	5.242	(1.080)	14705	200.000	198.00(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	52220	100.000	99.36
14	Allyl Chloride	41	2.701	2.701	(0.556)	77974	10.0000	8.55
15	Iodomethane	142	2.498	2.498	(0.515)	27549	20.0000	21.08
16	Acrylonitrile	53	3.076	3.076	(0.633)	34835	20.0000	21.97
17	Methylene Chloride	84	2.825	2.825	(0.582)	57084	10.0000	10.60
18	Methyl tert-butyl ether	73	3.117	3.117	(0.642)	87928	10.0000	10.36
19	Carbon Disulfide	76	2.555	2.555	(0.526)	246708	20.0000	19.92

20 trans-1,2-Dichloroethene	96	3.102	3.102 (0.639)	47107	10.0000	10.54
21 Vinyl Acetate	43	3.657	3.657 (0.753)	135278	20.0000	19.33

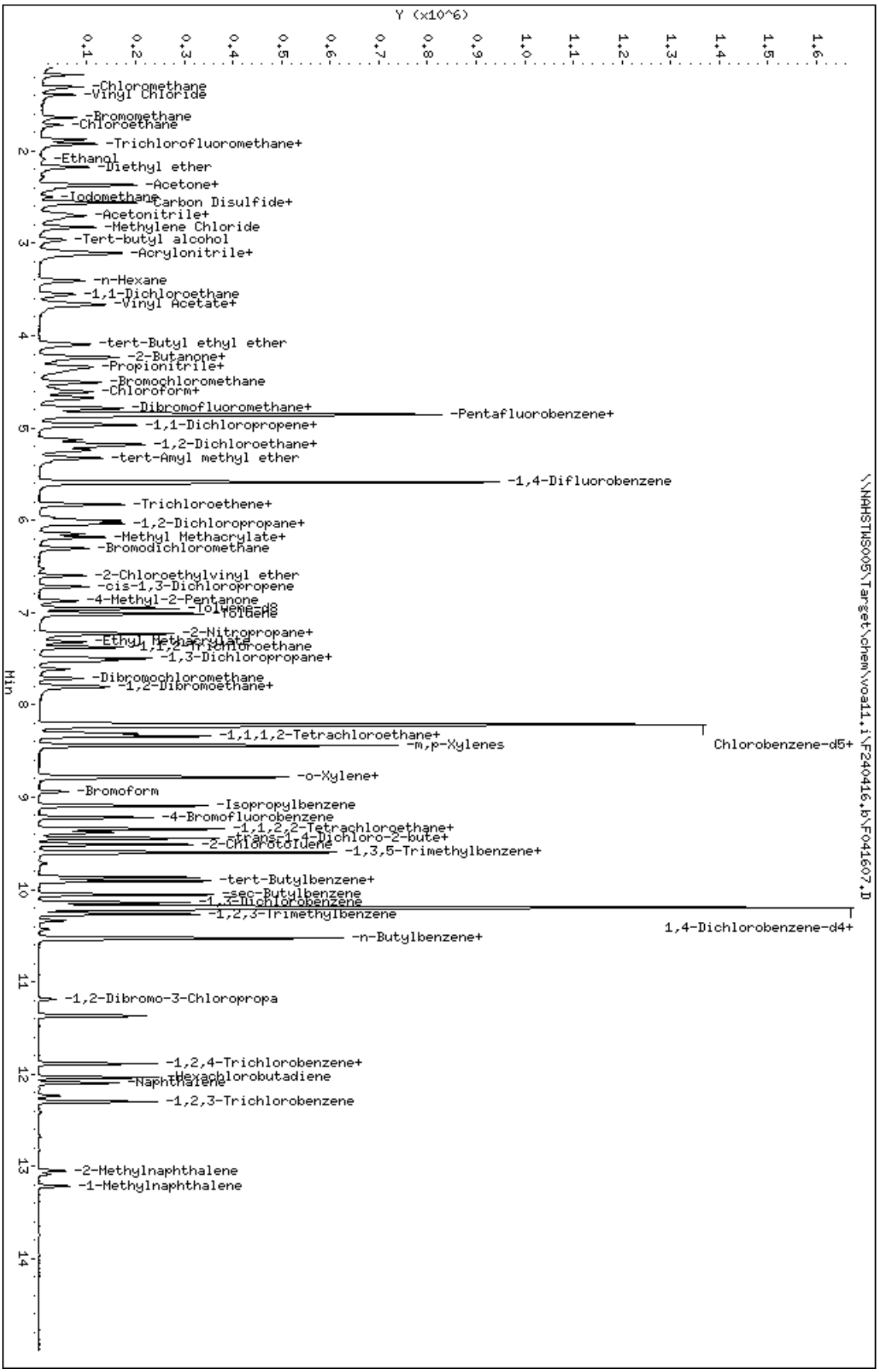
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.556	3.556	(0.732)	79588	10.0000	10.53
24	2-Butanone	43	4.279	4.279	(0.881)	27778	20.0000	20.15
25	Methacrylonitrile	41	4.230	4.230	(0.871)	36008	10.0000	10.05
26	2,2-Dichloropropane	77	4.234	4.234	(0.872)	41532	10.0000	10.32
27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	49472	10.0000	10.35
28	Chloroform	83	4.609	4.609	(0.949)	86556	10.0000	9.92
29	Bromochloromethane	128	4.508	4.508	(0.928)	26970	10.0000	10.20
$ 30	Dibromofluoromethane	113	4.781	4.781	(0.985)	47064	10.0000	10.27
31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	68316	10.0000	9.92
32	1,1-Dichloropropene	75	4.973	4.973	(0.890)	52583	10.0000	10.03
33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	71812	10.0000	10.38
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	56883	10.0000	10.27
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	61388	10.0000	10.63
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	663896	50.0000	
37	Benzene	78	5.182	5.182	(0.928)	162859	10.0000	10.01
38	Trichloroethene	130	5.827	5.827	(1.043)	46405	10.0000	9.55
39	Bromodichloromethane	83	6.307	6.307	(1.129)	53939	10.0000	9.70
40	Methyl Methacrylate	41	6.183	6.183	(1.273)	52474	10.0000	9.23
41	2-Chloroethylvinyl ether	63	6.599	6.599	(1.181)	34158	20.0000	17.74
42	1,2-Dichloropropane	63	6.037	6.037	(1.081)	42209	10.0000	10.11
43	2-Nitropropane	43	7.229	7.229	(1.489)	49951	10.0000	9.91
44	Dibromomethane	93	6.146	6.146	(1.100)	30295	10.0000	9.99
45	4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	50538	20.0000	18.06
46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	45376	10.0000	8.95
* 47	Chlorobenzene-d5	117	8.211	8.211	(1.000)	607609	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	148227	10.0000	9.96
49	Ethyl Methacrylate	69	7.319	7.319	(1.310)	41924	10.0000	8.74
50	Toluene	91	7.012	7.012	(0.854)	175769	10.0000	10.39
51	trans-1,3-Dichloropropene	75	7.222	7.222	(1.293)	37402	10.0000	8.28
52	2-Hexanone	43	7.229	7.229	(0.880)	49951	20.0000	21.96
53	1,1,2-Trichloroethane	83	7.379	7.379	(0.899)	36348	10.0000	10.47
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	72130	10.0000	10.44
55	Dibromochloromethane	129	7.717	7.717	(0.940)	38419	10.0000	10.25
56	Tetrachloroethene	164	7.495	7.495	(0.913)	42994	10.0000	10.54
57	1,2-Dibromoethane	107	7.810	7.810	(0.951)	42137	10.0000	10.00
58	1-Chlorohexane	55	8.226	8.226	(1.472)	39591	10.0000	9.62
59	Chlorobenzene	112	8.238	8.238	(1.003)	131945	10.0000	10.19
60	1,1,1,2-Tetrachloroethane	131	8.316	8.316	(1.013)	43122	10.0000	10.56
61	Ethylbenzene	106	8.339	8.339	(1.016)	60031	10.0000	10.52
62	m,p-Xylenes	106	8.440	8.440	(1.028)	169508	20.0000	21.97
63	o-Xylene	106	8.777	8.777	(1.069)	74248	10.0000	10.74
64	Styrene	104	8.789	8.789	(1.070)	127658	10.0000	10.65
66	Bromoform	173	8.939	8.939	(1.089)	22227	10.0000	9.83
67	Isopropylbenzene	105	9.092	9.092	(1.107)	177725	10.0000	10.14
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	60737	10.0000	10.35
$ 69	4-Bromofluorobenzene	95	9.224	9.224	(1.123)	61168	10.0000	10.82
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	350251	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	53310	10.0000	10.16
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	9785	10.0000	10.12
73	n-Propylbenzene	91	9.445	9.445	(0.926)	218199	10.0000	10.41
74	Bromobenzene	156	9.344	9.344	(0.916)	55305	10.0000	10.92
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	161511	10.0000	10.01

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	141451	10.0000	10.79
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	174883	10.0000	10.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	123461	10.0000	9.61
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	151228	10.0000	9.84
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	182530	10.0000	9.94
82	p-Isopropyltoluene	119	10.179	10.179	(0.998)	162517	10.0000	9.84
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	102027	10.0000	10.35
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	110387	10.0000	9.79
87	n-Butylbenzene	91	10.524	10.524	(1.032)	135123	10.0000	9.92
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	110045	10.0000	10.92
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	5862	10.0000	9.16
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	59344	10.0000	10.03
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	36699	10.0000	10.91
92	Naphthalene	128	12.095	12.095	(1.186)	109110	10.0000	8.83
93	1,2,3-Trichlorobenzene	180	12.297	12.297	(1.206)	61366	10.0000	10.24
146	Methyl acetate	43	2.738	2.738	(0.564)	43853	10.0000	9.22
138	Freon TF	101	2.375	2.375	(0.489)	51225	10.0000	10.44
139	Diethyl ether	59	2.172	2.172	(0.447)	55558	10.0000	9.75
141	Cyclohexane	56	4.849	4.849	(0.998)	67513	10.0000	9.83
147	Methylcyclohexane	55	6.003	6.003	(1.074)	49862	10.0000	9.64
132	n-Butanol	56	5.816	5.816	(1.198)	9154	200.000	163.69
131	Methyl Acrylate	55	4.395	4.395	(0.905)	34400	10.0000	9.66
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	27844	10.0000	8.86
135	1,4-Dioxane	88	6.191	6.191	(1.275)	8343	200.000	182.02(A)
136	n-Hexane	57	3.409	3.409	(0.702)	42536	10.0000	9.80
142	Tetrahydrofuran	42	4.571	4.571	(0.941)	18711	20.0000	18.41
148	Tert-butyl alcohol	59	2.967	2.967	(0.611)	40103	200.000	195.34
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	30728	200.000	186.74(T)
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	80518	200.000	169.98
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	146218	10.0000	10.17
167	Ethanol	45	2.086	2.086	(0.430)	9963	200.000	232.86
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	59344	10.0000	10.03
172	tert-Butyl formate	59	5.242	5.242	(1.080)	24758	20.0000	18.52(MH)
173	3,3-Dimethyl-1-butanol	57	7.792	7.792	(0.949)	46006	200.000	181.59
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	64863	10.0000	9.65
175	tert-Butyl ethyl ether	59	4.099	4.099	(0.844)	82980	10.0000	10.16
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	22971	10.0000	7.71
156	Diisopropyl ether	45	3.664	3.664	(0.755)	112808	10.0000	9.46(T)
180	1-Methylnaphthalene	142	13.216	13.216	(1.296)	27343	10.0000	7.55
130	Ethyl Acetate	43	4.369	4.369	(0.900)	68125	10.0000	10.25
176	tert-Amyl alcohol	59	5.242	5.242	(1.080)	23531	200.000	178.35(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1
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Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-tert-Amyl methyl ether
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether
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-Toluene-d8
-Toluene
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
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Inj Date : 16-APR-2024 13:26
InstruID : voa11.i
LabSampID : VSTD010

Bromomethane (74-83-9)

Reason Code:

BEFORE

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22-Apr-2024
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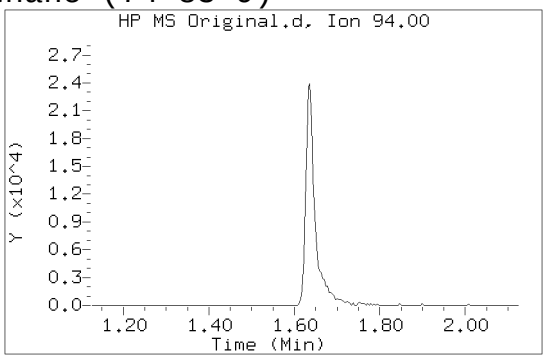
salina
zaid



AFTER

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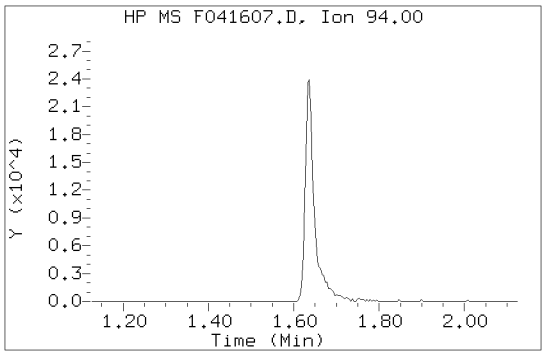

BEFORE

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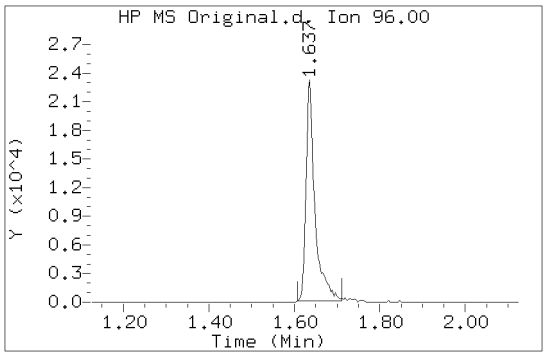

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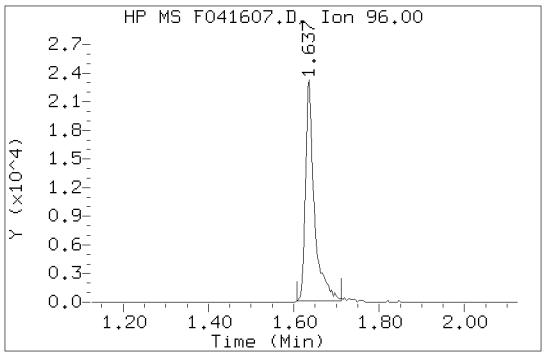

Acrolein (107-02-8)

Reason Code:

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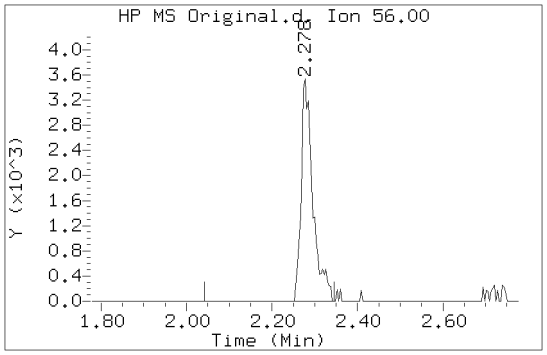

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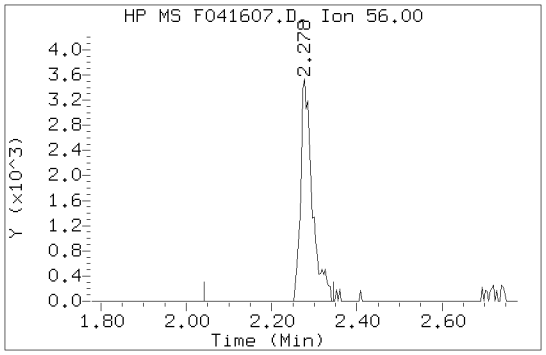

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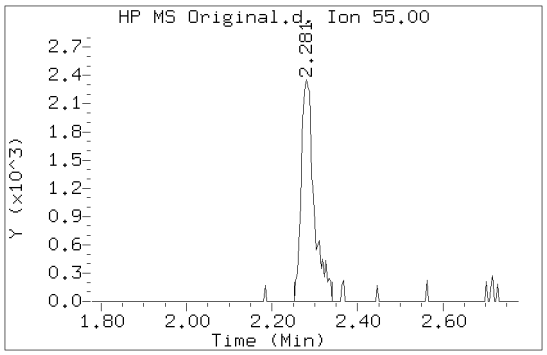

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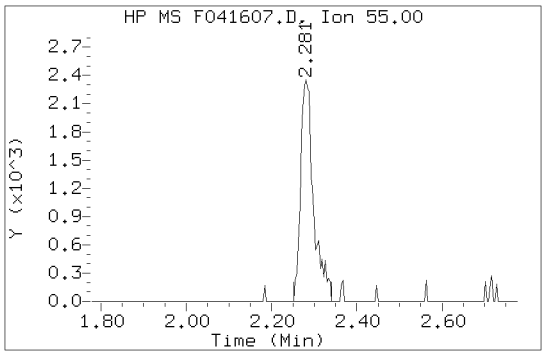

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LabSampID : VSTD010

Isobutyl Alcohol (78-83-1)

Reason Code:

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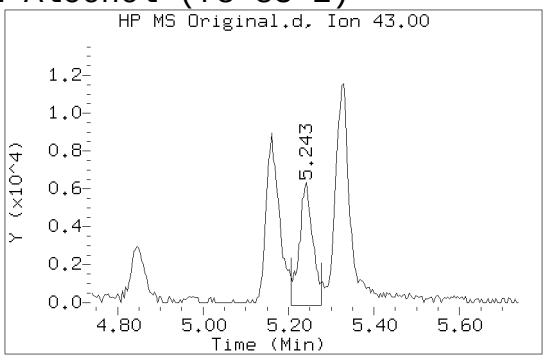

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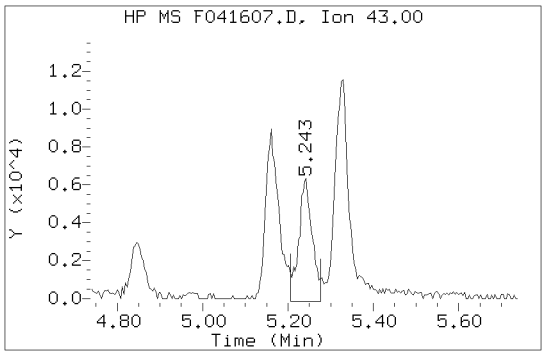

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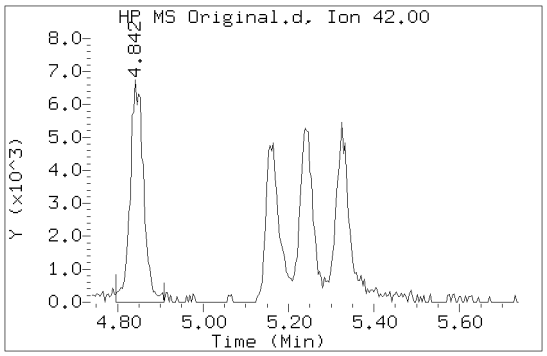

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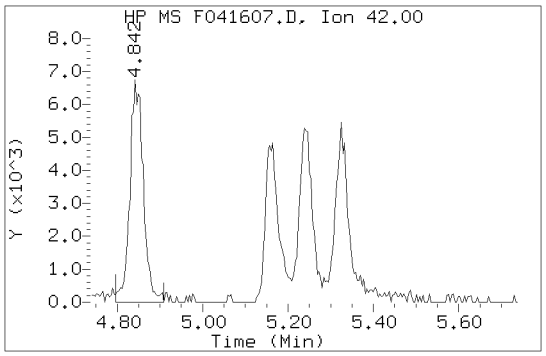

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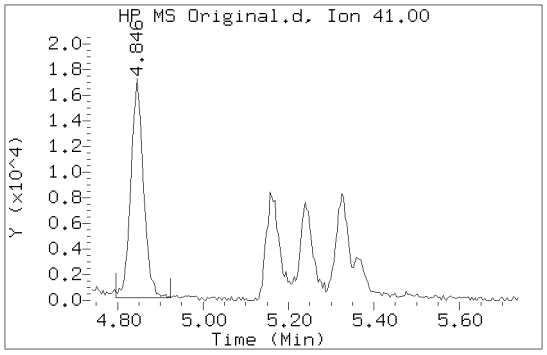

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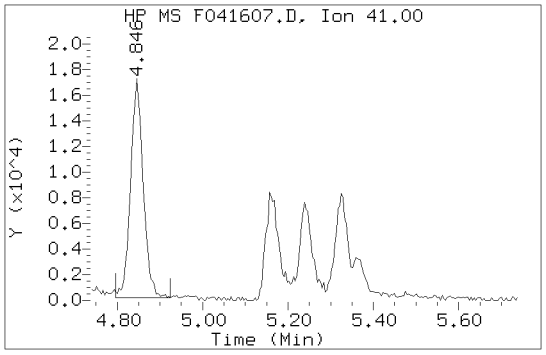

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

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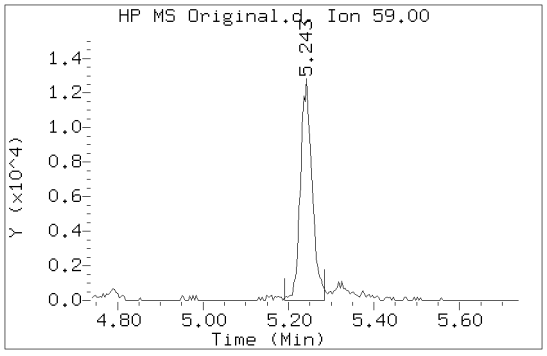

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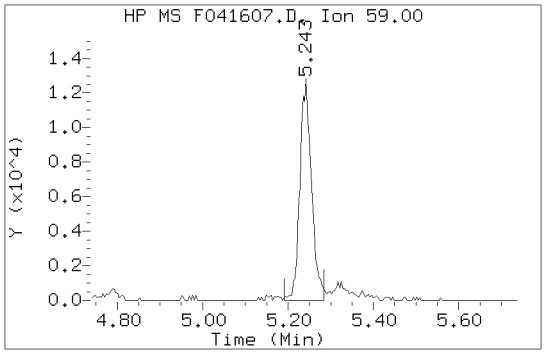

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InstruID : voa11.i
LabSampID : VSTD010

tert-Butyl formate (762-75-4)

Reason Code:

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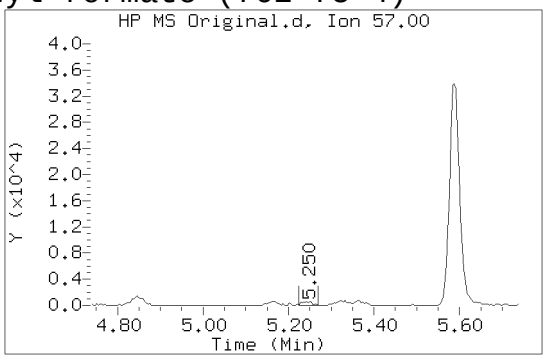

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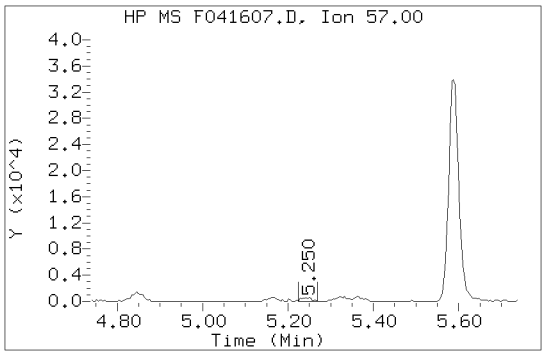

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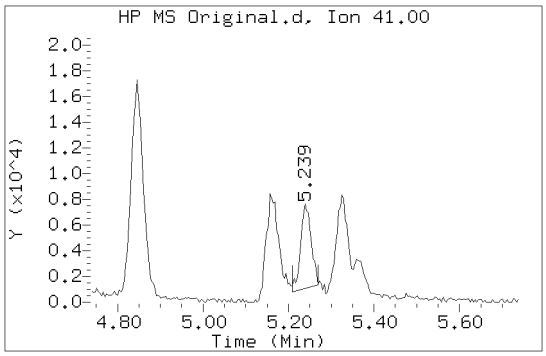

AFTER

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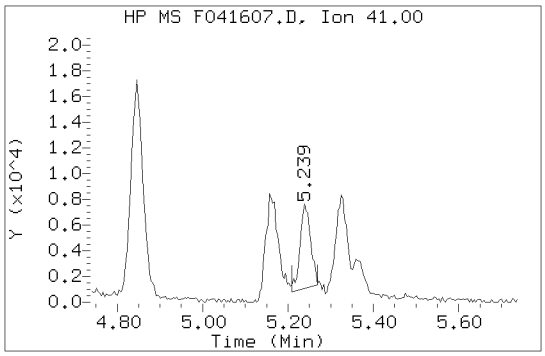

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Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041608.D
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Inj Date : 16-APR-2024 13:49
Operator : FT Inst ID: voa11.i
Smp Info : VSTD020;VSTD020;1;7;
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Comment :
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Cal Date : 16-APR-2024 13:26 Cal File: F041607.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	508849	50.0000	
2	Dichlorodifluoromethane	85	1.175	1.175	(0.242)	108239	20.0000	19.41
3	Chloromethane	50	1.306	1.306	(0.269)	185481	20.0000	18.88
4	Propionitrile	54	4.339	4.339	(0.893)	265472	200.000	206.25
5	Vinyl Chloride	62	1.389	1.389	(0.286)	107537	20.0000	19.82
6	Bromomethane	94	1.632	1.632	(0.336)	74303	20.0000	23.13(M)
7	Chloroethane	64	1.718	1.718	(0.354)	70465	20.0000	20.21
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	177639	20.0000	20.56
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	173257	20.0000	20.28
9	Acrolein	56	2.281	2.281	(0.470)	16645	40.0000	39.23(M)
10	Acetone	43	2.419	2.419	(0.498)	54734	40.0000	40.52
11	1,1-Dichloroethene	96	2.363	2.363	(0.487)	88034	20.0000	20.45
12	Isobutyl Alcohol	43	5.238	5.238	(1.079)	32637	400.000	427.28(M)
13	Acetonitrile	39	2.704	2.704	(0.557)	113133	200.000	192.03
14	Allyl Chloride	41	2.701	2.701	(0.556)	174579	20.0000	15.63
15	Iodomethane	142	2.494	2.494	(0.514)	65560	40.0000	32.09
16	Acrylonitrile	53	3.079	3.079	(0.634)	67714	40.0000	36.93
17	Methylene Chloride	84	2.824	2.824	(0.582)	111359	20.0000	19.79
18	Methyl tert-butyl ether	73	3.117	3.117	(0.642)	182852	20.0000	17.14
19	Carbon Disulfide	76	2.554	2.554	(0.526)	542367	40.0000	41.43

20 trans-1,2-Dichloroethene	96	3.102	3.102 (0.639)	90849	20.0000	19.23
21 Vinyl Acetate	43	3.653	3.653 (0.752)	293612	40.0000	35.30

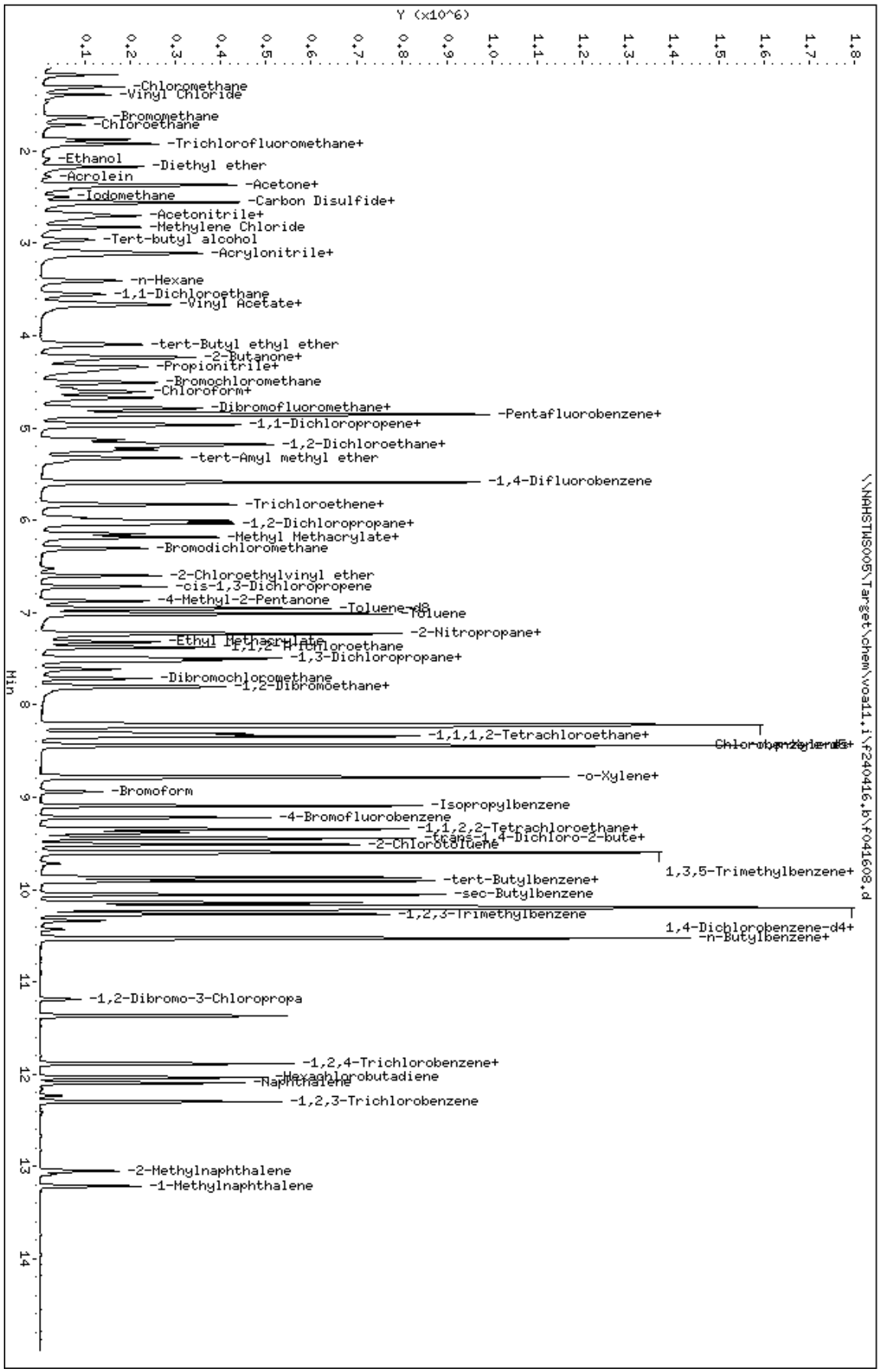
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.555	3.555	(0.732)	151647	20.0000	18.99
	24 2-Butanone	43	4.279	4.279	(0.881)	62983	40.0000	36.70
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	74109	20.0000	19.58
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	89634	20.0000	17.74
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	99725	20.0000	19.73
	28 Chloroform	83	4.609	4.609	(0.949)	181939	20.0000	19.73
	29 Bromochloromethane	128	4.504	4.504	(0.927)	54586	20.0000	19.53
$	30 Dibromofluoromethane	113	4.777	4.777	(0.984)	95398	20.0000	19.41
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	150090	20.0000	20.62
	32 1,1-Dichloropropene	75	4.972	4.972	(0.890)	117368	20.0000	21.69
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	161385	20.0000	22.61
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	126005	20.0000	22.04
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	126240	20.0000	20.58
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	685302	50.0000	
	37 Benzene	78	5.182	5.182	(0.928)	389415	20.0000	23.19
	38 Trichloroethene	130	5.827	5.827	(1.043)	116891	20.0000	23.31
	39 Bromodichloromethane	83	6.307	6.307	(1.129)	125512	20.0000	21.86
	40 Methyl Methacrylate	41	6.183	6.183	(1.273)	141838	20.0000	18.81
	41 2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	89899	40.0000	35.83
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	98601	20.0000	22.87
	43 2-Nitropropane	43	7.229	7.229	(1.489)	121035	20.0000	22.72
	44 Dibromomethane	93	6.146	6.146	(1.100)	71146	20.0000	22.73
	45 4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	131593	40.0000	40.30
	46 cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	121506	20.0000	18.68
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	669495	50.0000	
$	48 Toluene-d8	98	6.955	6.955	(0.847)	345353	20.0000	21.73
	49 Ethyl Methacrylate	69	7.319	7.319	(1.310)	112252	20.0000	20.06
	50 Toluene	91	7.015	7.015	(0.854)	401065	20.0000	20.75
	51 trans-1,3-Dichloropropene	75	7.221	7.221	(1.293)	106160	20.0000	19.50
	52 2-Hexanone	43	7.229	7.229	(0.880)	121035	40.0000	48.31
	53 1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	79155	20.0000	20.70
	54 1,3-Dichloropropane	76	7.521	7.521	(0.916)	177079	20.0000	23.27
	55 Dibromochloromethane	129	7.716	7.716	(0.939)	100656	20.0000	20.19
	56 Tetrachloroethene	164	7.495	7.495	(0.912)	101482	20.0000	22.59
	57 1,2-Dibromoethane	107	7.806	7.806	(0.950)	110205	20.0000	22.01
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	89813	20.0000	21.47
	59 Chlorobenzene	112	8.237	8.237	(1.003)	298576	20.0000	20.92
	60 1,1,1,2-Tetrachloroethane	131	8.312	8.312	(1.012)	97308	20.0000	21.64
	61 Ethylbenzene	106	8.339	8.339	(1.015)	140541	20.0000	22.35
	62 m,p-Xylenes	106	8.440	8.440	(1.027)	356725	40.0000	41.70
	63 o-Xylene	106	8.777	8.777	(1.068)	164363	20.0000	20.34
	64 Styrene	104	8.788	8.788	(1.070)	283377	20.0000	20.42
	66 Bromoform	173	8.938	8.938	(1.088)	49592	20.0000	19.09
	67 Isopropylbenzene	105	9.096	9.096	(1.107)	414956	20.0000	20.15
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	127860	20.0000	20.63
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	123525	20.0000	19.70
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	370003	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	115408	20.0000	20.83
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	22617	20.0000	20.27
	73 n-Propylbenzene	91	9.444	9.444	(0.926)	508436	20.0000	21.28
	74 Bromobenzene	156	9.343	9.343	(0.916)	119088	20.0000	20.35
	75 1,3,5-Trimethylbenzene	105	9.594	9.594	(0.941)	380302	20.0000	20.47

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	318498	20.0000	21.53
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	382430	20.0000	21.12

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.868	9.868	(0.968)	313909	20.0000	20.20
79 1,2,4-Trimethylbenzene	105	9.909	9.909	(0.972)	377112	20.0000	20.92
81 sec-Butylbenzene	105	10.055	10.055	(0.986)	453246	20.0000	20.71
82 p-Isopropyltoluene	119	10.179	10.179	(0.998)	401916	20.0000	20.46
83 1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	233592	20.0000	22.44
84 1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	244647	20.0000	20.54
87 n-Butylbenzene	91	10.524	10.524	(1.032)	335060	20.0000	20.31
88 1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	236812	20.0000	22.25
89 1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	14460	20.0000	19.83
90 1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	139087	20.0000	21.96
91 Hexachlorobutadiene	225	12.035	12.035	(1.180)	75985	20.0000	21.40
92 Naphthalene	128	12.095	12.095	(1.186)	277978	20.0000	18.97
93 1,2,3-Trichlorobenzene	180	12.297	12.297	(1.206)	129909	20.0000	20.38
146 Methyl acetate	43	2.734	2.734	(0.563)	100833	20.0000	20.06
138 Freon TF	101	2.374	2.374	(0.489)	104489	20.0000	20.15
139 Diethyl ether	59	2.172	2.172	(0.447)	122934	20.0000	20.41
141 Cyclohexane	56	4.845	4.845	(0.998)	141826	20.0000	20.01
147 Methylcyclohexane	55	6.007	6.007	(1.075)	122140	20.0000	23.23
132 n-Butanol	56	5.823	5.823	(1.199)	27174	400.000	396.99
131 Methyl Acrylate	55	4.395	4.395	(0.905)	82763	20.0000	18.98
133 Ethyl Acrylate	55	5.969	5.969	(1.229)	81805	20.0000	16.65
135 1,4-Dioxane	88	6.187	6.187	(1.274)	21077	400.000	416.55(A)
136 n-Hexane	57	3.405	3.405	(0.701)	85274	20.0000	17.31
142 Tetrahydrofuran	42	4.571	4.571	(0.941)	43833	40.0000	37.85
148 Tert-butyl alcohol	59	2.963	2.963	(0.610)	88871	400.000	376.89
149 Isopropyl alcohol	45	2.566	2.566	(0.528)	76612	400.000	406.09
151 4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	235356	400.000	428.32
166 1,2,3-Trimethylbenzene	105	10.265	10.265	(1.007)	346137	20.0000	20.86
167 Ethanol	45	2.090	2.090	(0.430)	18989	400.000	441.50
170 1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	139087	20.0000	21.96
172 tert-Butyl formate	59	5.238	5.238	(1.079)	59065	40.0000	38.71(H)
173 3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	133062	400.000	474.62
174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	163886	20.0000	17.47
175 tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	180101	20.0000	17.27
160 2-Methylnaphthalene	142	13.051	13.051	(1.280)	70459	20.0000	16.18
156 Diisopropyl ether	45	3.664	3.664	(0.755)	246734	20.0000	18.22
180 1-Methylnaphthalene	142	13.212	13.212	(1.296)	88171	20.0000	18.47
130 Ethyl Acetate	43	4.369	4.369	(0.900)	150564	20.0000	18.50
176 tert-Amyl alcohol	59	5.238	5.238	(1.079)	59065	400.000	389.20(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: VSTD020;VSTD020;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Inj Date : 16-APR-2024 13:49
InstruID : voa11.i
LabSampID : VSTD020

Bromomethane (74-83-9)

Reason Code:

BEFORE

MASS
94
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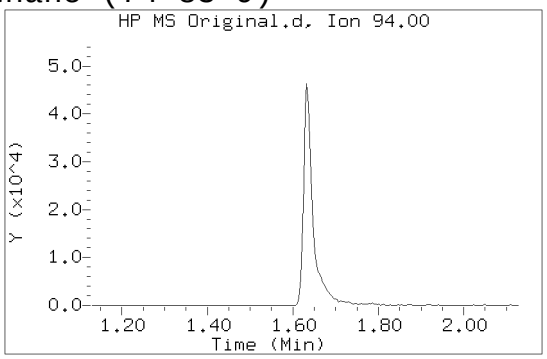
74303
HEIGHT
46304
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
74303
HEIGHT
46304
22-Apr-2024
09:21
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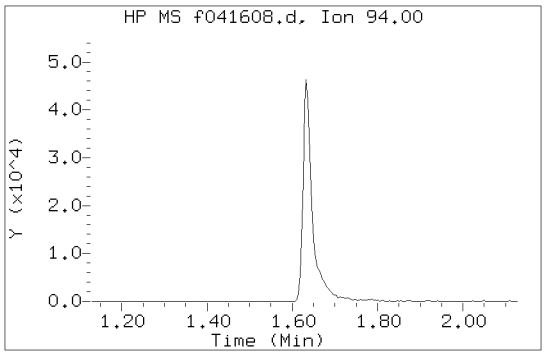

BEFORE

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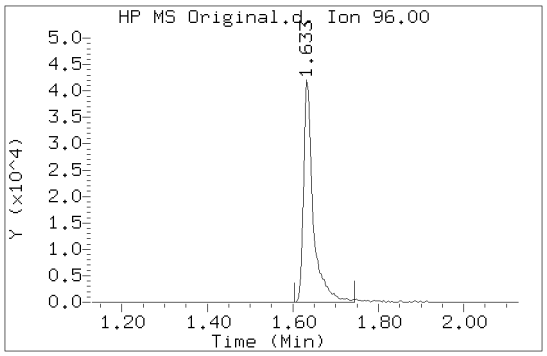

AFTER

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22-Apr-2024
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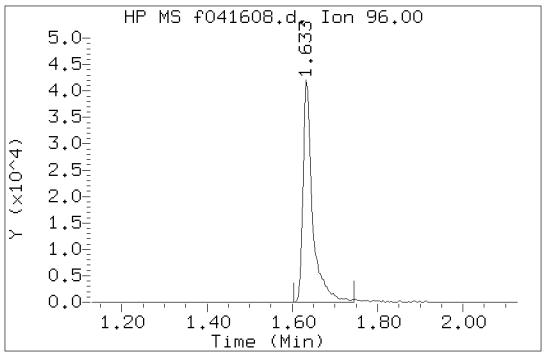

Acrolein (107-02-8)

Reason Code:

BEFORE

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22-Apr-2024
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salina
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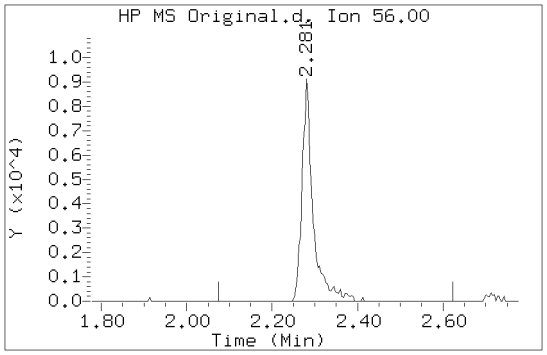

AFTER

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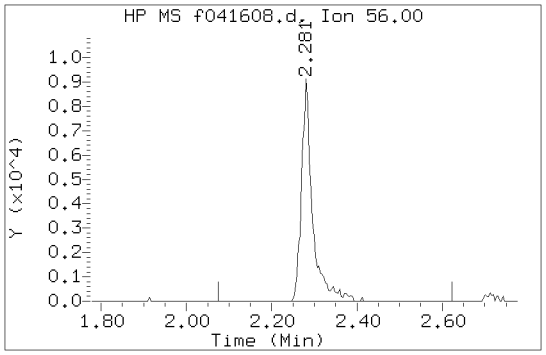

BEFORE

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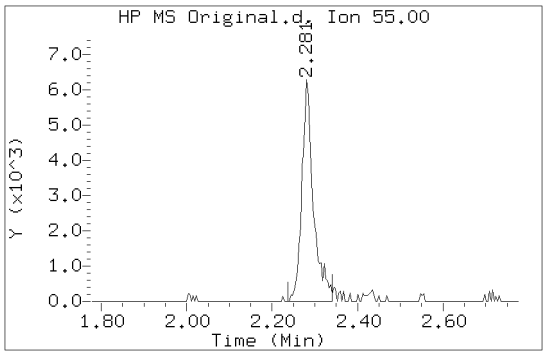

AFTER

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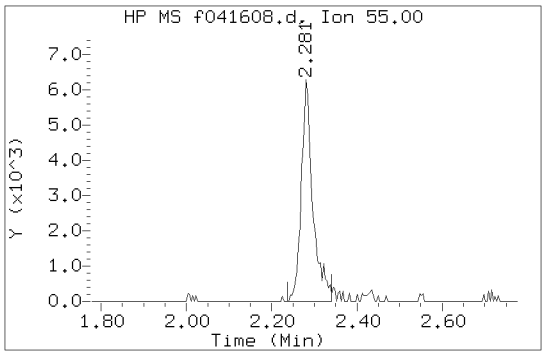

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Inj Date : 16-APR-2024 13:49
InstruID : voa11.i
LabSampID : VSTD020

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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HEIGHT
15799
22-Apr-2024
09:21
salina
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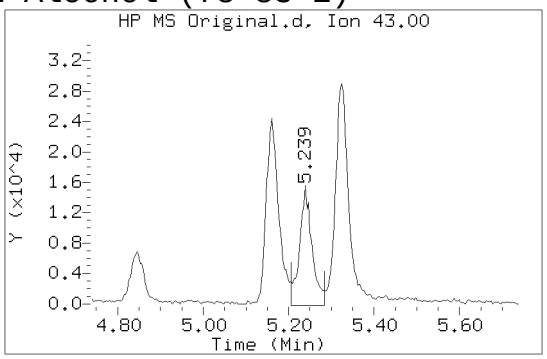

AFTER

MASS
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HEIGHT
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22-Apr-2024
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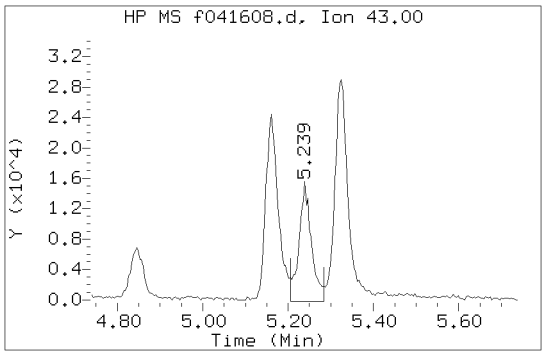

BEFORE

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22-Apr-2024
09:21
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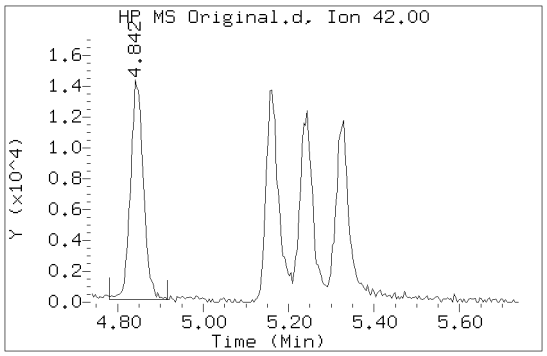
zaid



AFTER

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22-Apr-2024
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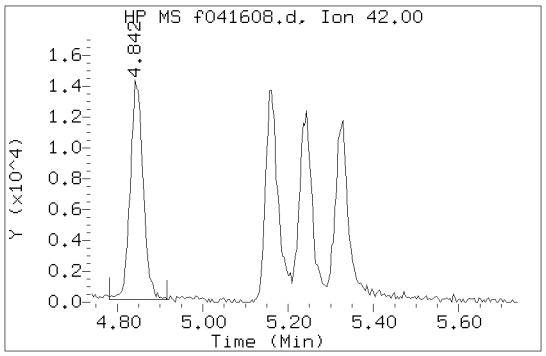

BEFORE

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22-Apr-2024
09:21
salina
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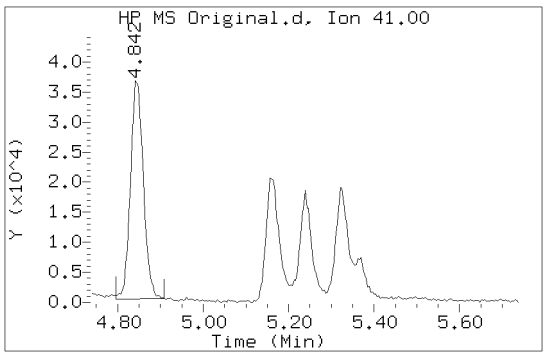

AFTER

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41
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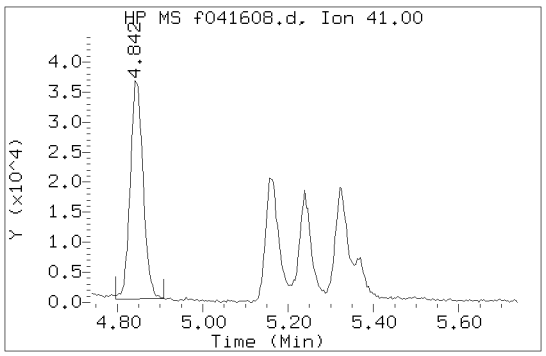

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041609.D Page 1
Report Date: 22-Apr-2024 09:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041609.D
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Inj Date : 16-APR-2024 14:11
Operator : FT Inst ID: voa11.i
Smp Info : VSTD050;VSTD050;1;8;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 22-Apr-2024 09:51 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	592110	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	301130	50.0000	46.41
3	Chloromethane	50	1.306	1.306	(0.269)	499782	50.0000	43.73
4	Propionitrile	54	4.339	4.339	(0.893)	770963	500.000	514.74
5	Vinyl Chloride	62	1.389	1.389	(0.286)	289430	50.0000	45.84
6	Bromomethane	94	1.633	1.633	(0.336)	173218	50.0000	46.99(M)
7	Chloroethane	64	1.715	1.715	(0.353)	177164	50.0000	43.67
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	446576	50.0000	44.43
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	434559	50.0000	43.71
9	Acrolein	56	2.277	2.277	(0.469)	48324	100.000	90.49(M)
10	Acetone	43	2.420	2.420	(0.498)	141774	100.000	85.56
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	238629	50.0000	47.65
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	94318	1000.00	1040.26(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	325149	500.000	458.05
14	Allyl Chloride	41	2.705	2.705	(0.557)	664155	50.0000	46.05
15	Iodomethane	142	2.495	2.495	(0.514)	250219	100.000	77.26
16	Acrylonitrile	53	3.076	3.076	(0.633)	202945	100.000	88.61
17	Methylene Chloride	84	2.825	2.825	(0.582)	296554	50.0000	45.65
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	598385	50.0000	42.12
19	Carbon Disulfide	76	2.555	2.555	(0.526)	1516199	100.000	99.53

20	trans-1,2-Dichloroethene	96	3.102	3.102 (0.639)	277518	50.0000	50.49
21	Vinyl Acetate	43	3.642	3.642 (0.750)	941511	100.000	89.95

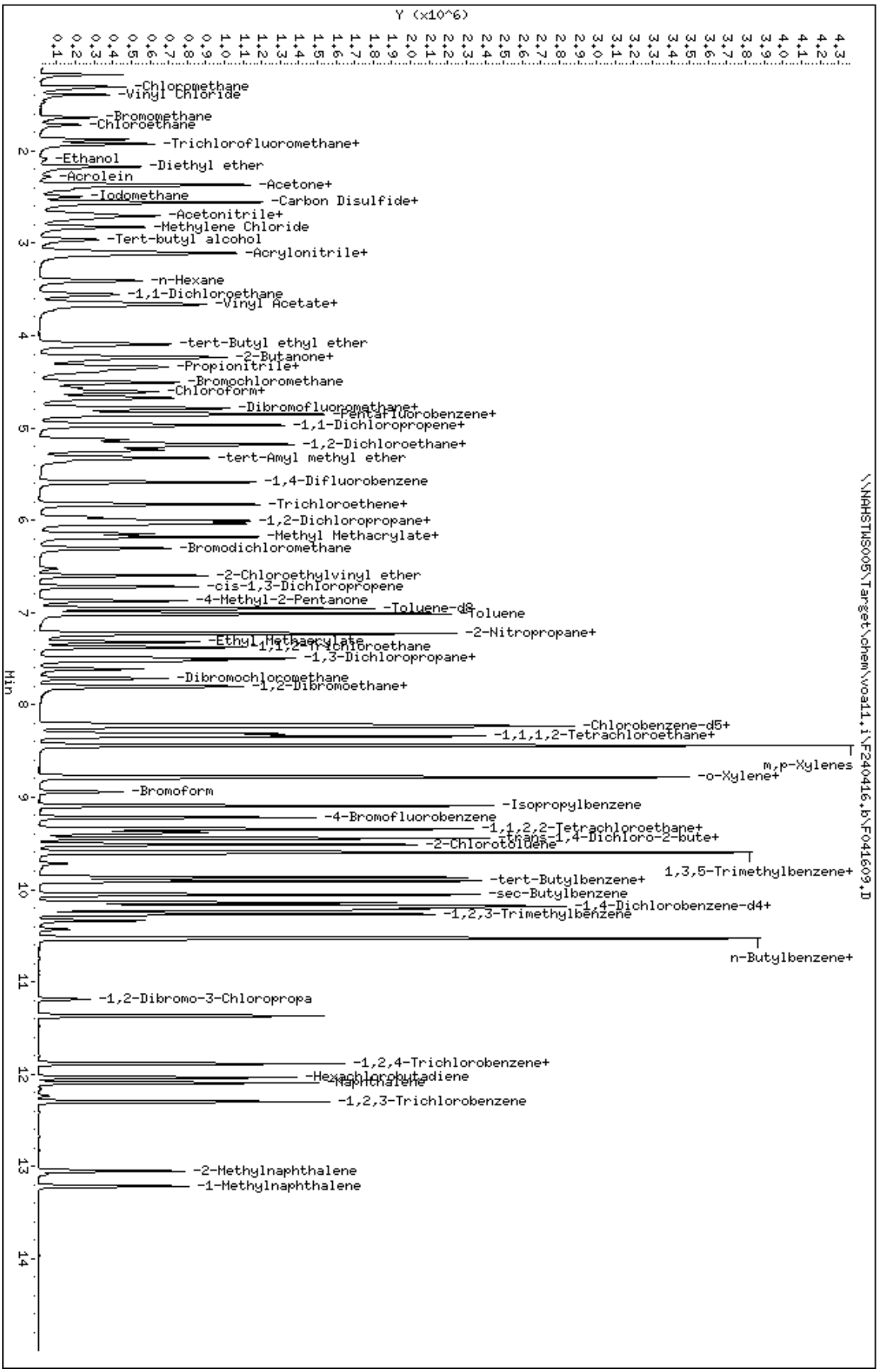
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.556	(0.732)	459938	50.0000	49.49
	24 2-Butanone	43	4.275	4.275	(0.880)	202873	100.000	91.52
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	209016	50.0000	47.46
	26 2,2-Dichloropropane	77	4.234	4.234	(0.872)	287105	50.0000	43.26
	27 cis-1,2-Dichloroethene	96	4.234	4.234	(0.872)	312585	50.0000	53.17
	28 Chloroform	83	4.609	4.609	(0.949)	519966	50.0000	48.47
	29 Bromochloromethane	128	4.508	4.508	(0.928)	153383	50.0000	47.17
$	30 Dibromofluoromethane	113	4.778	4.778	(0.984)	278801	50.0000	48.26
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	445890	50.0000	52.65
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	352641	50.0000	51.73
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	422254	50.0000	46.95
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	384149	50.0000	53.34
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	337864	50.0000	47.19
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	863517	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	1061096	50.0000	50.16
	38 Trichloroethene	130	5.827	5.827	(1.043)	323962	50.0000	51.29
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	381752	50.0000	52.78
	40 Methyl Methacrylate	41	6.180	6.180	(1.272)	431907	50.0000	44.24
	41 2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	317349	100.000	89.43
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	274469	50.0000	50.54
	43 2-Nitropropane	43	7.229	7.229	(1.489)	284345	50.0000	45.88
	44 Dibromomethane	93	6.146	6.146	(1.100)	197577	50.0000	50.09
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	422897	100.000	100.51
	46 cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	393967	50.0000	43.59
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	816588	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	994640	50.0000	51.37
	49 Ethyl Methacrylate	69	7.316	7.316	(1.309)	362381	50.0000	47.80
	50 Toluene	91	7.016	7.016	(0.854)	1183051	50.0000	49.17
	51 trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	353146	50.0000	47.37
	52 2-Hexanone	43	7.229	7.229	(0.880)	284345	100.000	93.05
	53 1,1,2-Trichloroethane	83	7.379	7.379	(0.898)	230842	50.0000	49.49
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	463295	50.0000	49.91
	55 Dibromochloromethane	129	7.717	7.717	(0.939)	292228	50.0000	43.86
	56 Tetrachloroethene	164	7.496	7.496	(0.912)	265628	50.0000	48.47
	57 1,2-Dibromoethane	107	7.807	7.807	(0.950)	297746	50.0000	47.22
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	238995	50.0000	45.64
	59 Chlorobenzene	112	8.238	8.238	(1.003)	810684	50.0000	46.58
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	291247	50.0000	53.11
	61 Ethylbenzene	106	8.339	8.339	(1.015)	415601	50.0000	54.20
	62 m,p-Xylenes	106	8.440	8.440	(1.027)	1041219	100.000	99.38
	63 o-Xylene	106	8.778	8.778	(1.068)	504684	50.0000	49.33
	64 Styrene	104	8.789	8.789	(1.070)	869779	50.0000	49.84
	66 Bromoform	173	8.943	8.943	(1.089)	166752	50.0000	49.80
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	1284730	50.0000	49.32
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	366879	50.0000	49.60
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	371908	50.0000	48.41
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	441596	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	343978	50.0000	52.02
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	69924	50.0000	48.76
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	1489657	50.0000	50.21
	74 Bromobenzene	156	9.344	9.344	(0.916)	352094	50.0000	47.67
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1116005	50.0000	48.15

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	900093	50.0000	49.19
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1074152	50.0000	48.54

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.868	9.868	(0.968)	907488	50.0000	45.95
79 1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	1057833	50.0000	46.86
81 sec-Butylbenzene	105	10.056	10.056	(0.986)	1276333	50.0000	46.21
82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	1157813	50.0000	46.67
83 1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	627558	50.0000	50.52
84 1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	642422	50.0000	45.19
87 n-Butylbenzene	91	10.524	10.524	(1.032)	987398	50.0000	46.92
88 1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	654681	50.0000	51.54
89 1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	46540	50.0000	49.77
90 1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	402555	50.0000	51.46
91 Hexachlorobutadiene	225	12.035	12.035	(1.180)	211253	50.0000	49.85
92 Naphthalene	128	12.095	12.095	(1.186)	914218	50.0000	49.37
93 1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	398734	50.0000	52.17
146 Methyl acetate	43	2.735	2.735	(0.563)	262307	50.0000	44.86
138 Freon TF	101	2.371	2.371	(0.488)	279365	50.0000	46.31
139 Diethyl ether	59	2.172	2.172	(0.447)	322396	50.0000	46.01
141 Cyclohexane	56	4.845	4.845	(0.998)	390936	50.0000	48.08
147 Methylcyclohexane	55	6.004	6.004	(1.074)	317020	50.0000	48.14
132 n-Butanol	56	5.816	5.816	(1.198)	81867	1000.00	941.91
131 Methyl Acrylate	55	4.392	4.392	(0.904)	258470	50.0000	46.95
133 Ethyl Acrylate	55	5.970	5.970	(1.229)	300775	50.0000	42.94
135 1,4-Dioxane	88	6.183	6.183	(1.273)	64136	1000.00	1042.33(A)
136 n-Hexane	57	3.406	3.406	(0.701)	278057	50.0000	45.96
142 Tetrahydrofuran	42	4.568	4.568	(0.941)	140427	100.000	97.69
148 Tert-butyl alcohol	59	2.960	2.960	(0.609)	270984	1000.00	912.27
149 Isopropyl alcohol	45	2.562	2.562	(0.528)	220200	1000.00	939.42
151 4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	718531	1000.00	965.63
166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	963919	50.0000	46.60
167 Ethanol	45	2.086	2.086	(0.430)	47670	1000.00	963.79
170 1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	402555	50.0000	51.46
172 tert-Butyl formate	59	5.239	5.239	(1.079)	182252	100.000	95.41(H)
173 3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	352607	1000.00	999.30
174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	549351	50.0000	42.78
175 tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	613387	50.0000	43.97
160 2-Methylnaphthalene	142	13.047	13.047	(1.279)	296453	50.0000	47.02
156 Diisopropyl ether	45	3.664	3.664	(0.755)	777266	50.0000	47.15
180 1-Methylnaphthalene	142	13.216	13.216	(1.296)	323047	50.0000	50.09
130 Ethyl Acetate	43	4.365	4.365	(0.899)	480017	50.0000	46.02
176 tert-Amyl alcohol	59	5.239	5.239	(1.079)	182252	1000.00	958.39(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: WSTD050
Sample Info: WSTD050;WSTD050;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Page 1

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041609.D
Inj Date : 16-APR-2024 14:11
InstruID : voa11.i
LabSampID : VSTD050

Bromomethane (74-83-9)

Reason Code:

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22-Apr-2024
09:51
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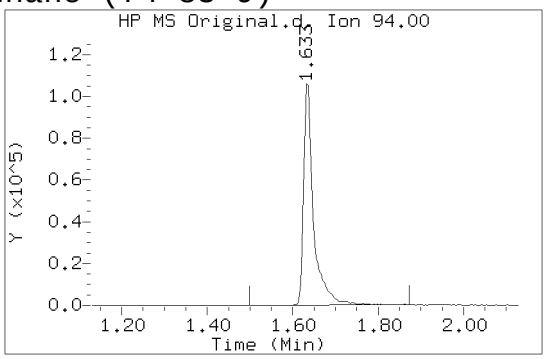

AFTER

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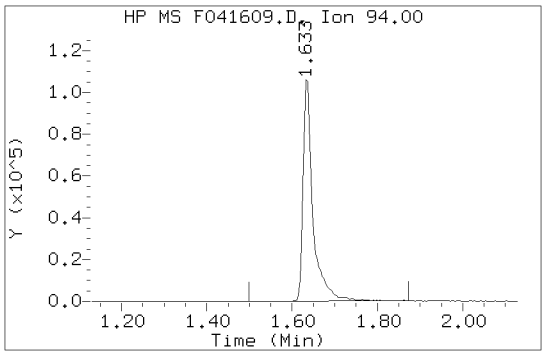

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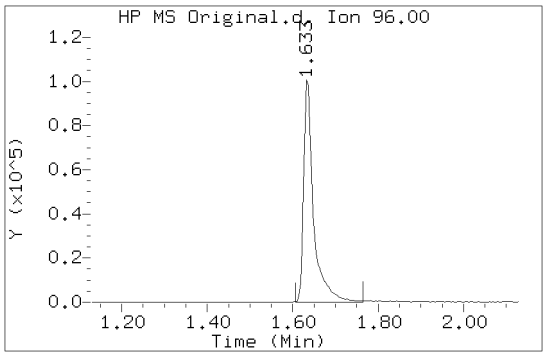

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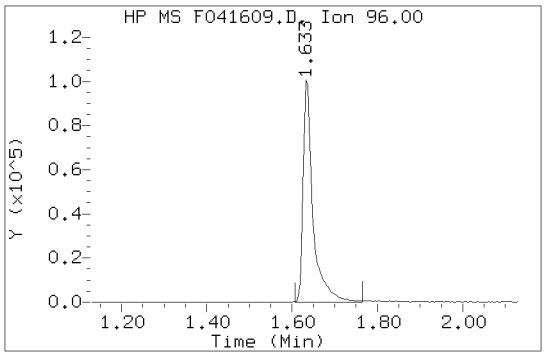

Acrolein (107-02-8)

Reason Code:

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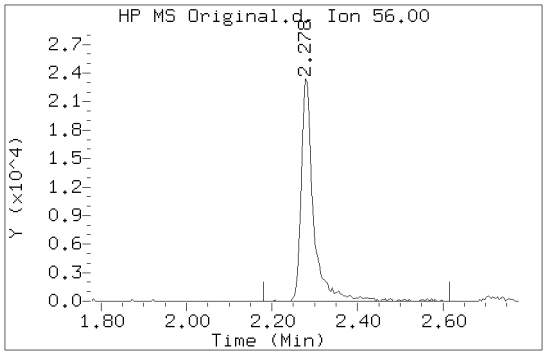

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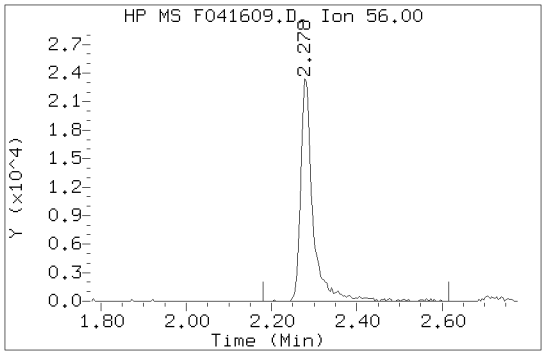

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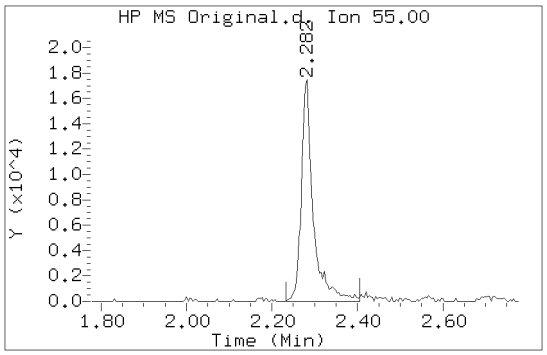

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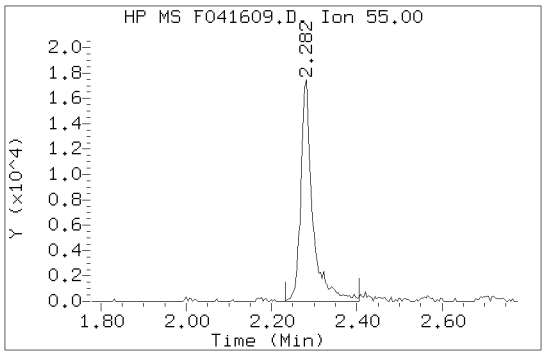

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InstruID : voa11.i
LabSampID : VSTD050

Isobutyl Alcohol (78-83-1)

Reason Code:

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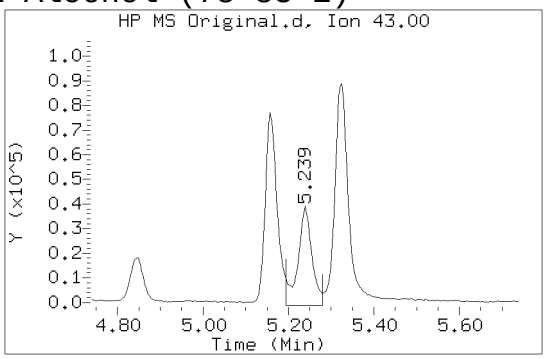

AFTER

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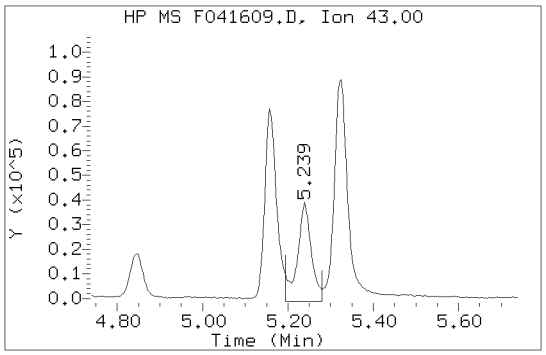

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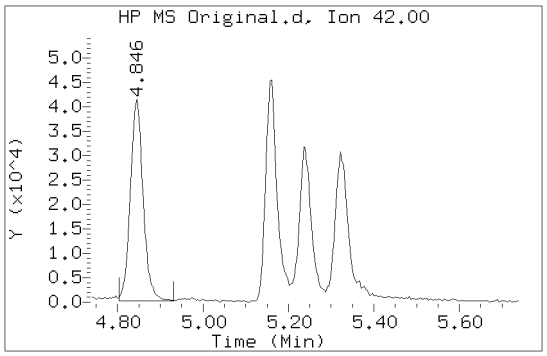

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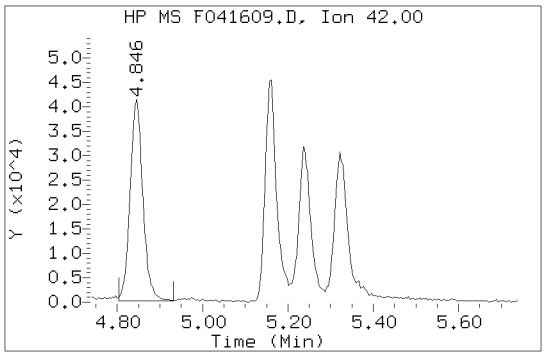

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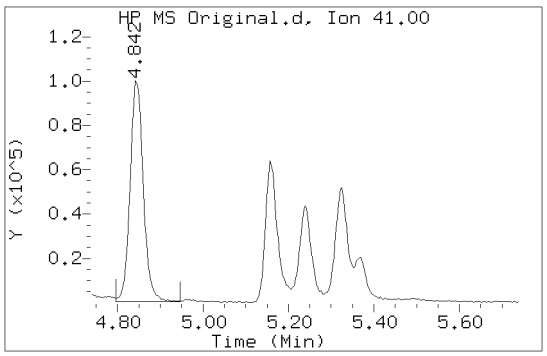

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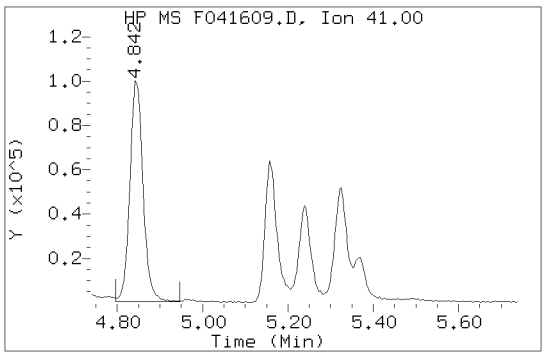

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Report Date: 22-Apr-2024 09:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041610.D
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Inj Date : 16-APR-2024 14:33
Operator : FT Inst ID: voa11.i
Smp Info : VSTD100;VSTD100;1;9;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 22-Apr-2024 09:28 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.857	4.857	(1.000)	520482	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.241)	582902	100.000	102.20
3	Chloromethane	50	1.307	1.307	(0.269)	965021	100.000	96.05
4	Propionitrile	54	4.339	4.339	(0.893)	1389889	1000.00	1055.69
5	Vinyl Chloride	62	1.389	1.389	(0.286)	566180	100.000	102.02
6	Bromomethane	94	1.633	1.633	(0.336)	336301	100.000	100.42(M)
7	Chloroethane	64	1.715	1.715	(0.353)	353256	100.000	99.06
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	910045	100.000	103.00
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	872311	100.000	99.83
9	Acrolein	56	2.281	2.281	(0.470)	107005	200.000	205.52
10	Acetone	43	2.424	2.424	(0.499)	281554	200.000	188.56
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	484081	100.000	109.96
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	168093	2000.00	1968.40(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	650617	1000.00	1028.58
14	Allyl Chloride	41	2.705	2.705	(0.557)	1328864	100.000	101.99
15	Iodomethane	142	2.495	2.495	(0.514)	563189	200.000	178.67
16	Acrylonitrile	53	3.076	3.076	(0.633)	402852	200.000	194.89
17	Methylene Chloride	84	2.825	2.825	(0.582)	579227	100.000	101.77
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	1276515	100.000	97.45
19	Carbon Disulfide	76	2.555	2.555	(0.526)	3050868	200.000	227.85

20	trans-1,2-Dichloroethene	96	3.102	3.102 (0.639)	546506	100.000	113.11
21	Vinyl Acetate	43	3.642	3.642 (0.750)	1932488	200.000	204.48(A)

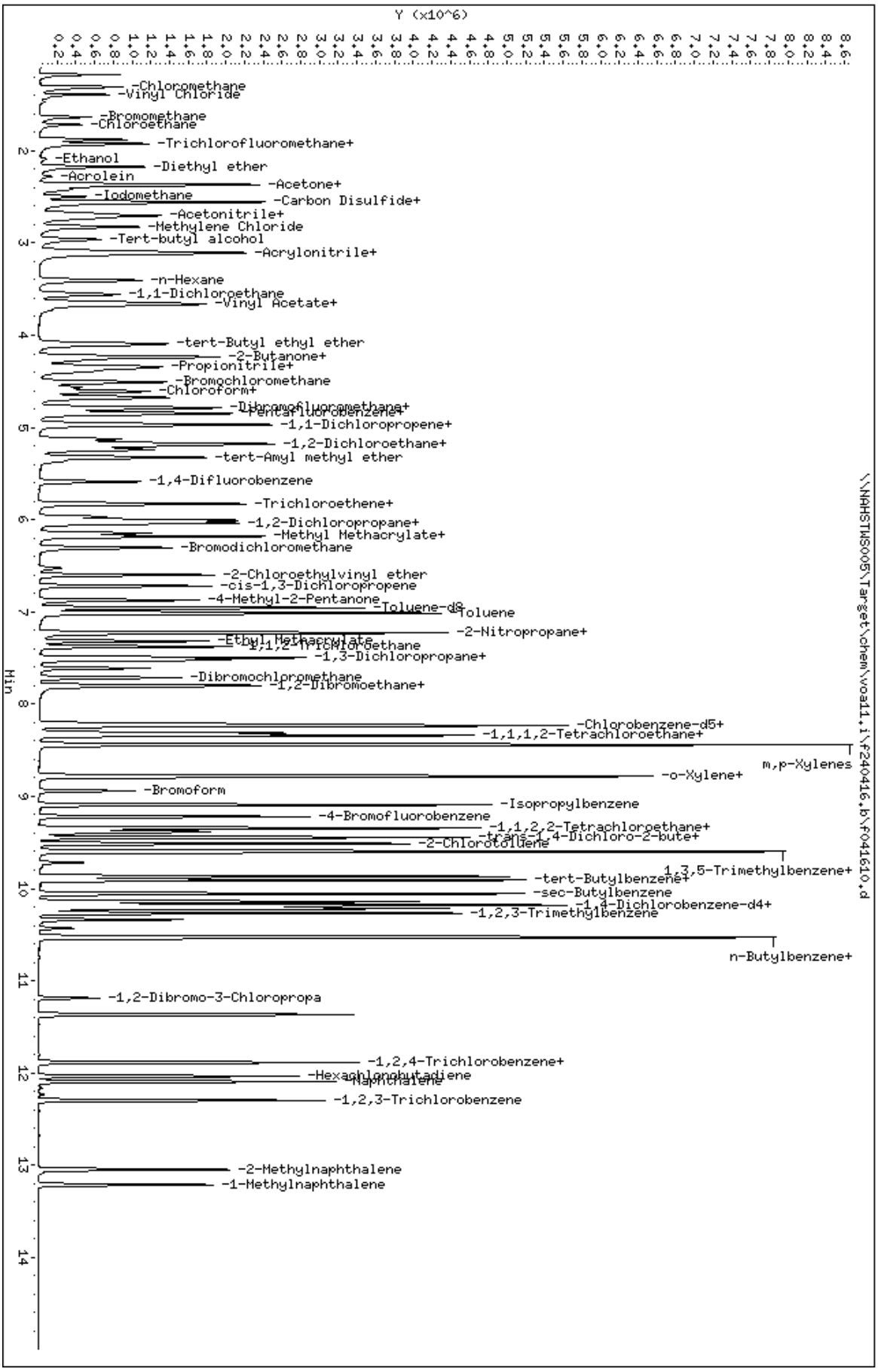
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.556	3.556	(0.732)	905196	100.000	110.82
24	2-Butanone	43	4.279	4.279	(0.881)	374331	200.000	185.86
25	Methacrylonitrile	41	4.231	4.231	(0.871)	399690	100.000	103.25
26	2,2-Dichloropropane	77	4.234	4.234	(0.872)	578631	100.000	95.07
27	cis-1,2-Dichloroethene	96	4.242	4.242	(0.873)	562334	100.000	108.82
28	Chloroform	83	4.609	4.609	(0.949)	941950	100.000	99.89
29	Bromochloromethane	128	4.504	4.504	(0.927)	265970	100.000	93.06
$ 30	Dibromofluoromethane	113	4.782	4.782	(0.985)	498624	100.000	97.85
31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	836860	100.000	112.41
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	653438	100.000	106.96
33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	783381	100.000	97.19
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	730868	100.000	113.24
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	615555	100.000	97.68
* 36	1,4-Difluorobenzene	114	5.588	5.588	(1.000)	773943	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	1898157	100.000	100.12
38	Trichloroethene	130	5.827	5.827	(1.043)	581657	100.000	102.74
39	Bromodichloromethane	83	6.307	6.307	(1.129)	740420	100.000	114.23
40	Methyl Methacrylate	41	6.180	6.180	(1.272)	862235	100.000	96.56
41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	661020	200.000	199.80(A)
42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	505897	100.000	103.94
43	2-Nitropropane	43	7.230	7.230	(1.489)	517330	100.000	94.97
44	Dibromomethane	93	6.146	6.146	(1.100)	373353	100.000	105.62
45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	893756	200.000	199.83
46	cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	844777	100.000	100.34
* 47	Chlorobenzene-d5	117	8.212	8.212	(1.000)	808596	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	1932426	100.000	98.44
49	Ethyl Methacrylate	69	7.316	7.316	(1.309)	743474	100.000	101.50
50	Toluene	91	7.016	7.016	(0.854)	2295565	100.000	95.67
51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	738167	100.000	101.90
52	2-Hexanone	43	7.230	7.230	(0.880)	517330	200.000	170.96
53	1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	434477	100.000	94.07
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	931867	100.000	101.39
55	Dibromochloromethane	129	7.717	7.717	(0.940)	627845	100.000	91.59
56	Tetrachloroethene	164	7.496	7.496	(0.913)	535768	100.000	98.74
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	596740	100.000	94.29
58	1-Chlorohexane	55	8.230	8.230	(1.473)	468300	100.000	100.09
59	Chlorobenzene	112	8.238	8.238	(1.003)	1603510	100.000	93.06
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	598850	100.000	110.28
61	Ethylbenzene	106	8.339	8.339	(1.016)	826528	100.000	108.85
62	m,p-Xylenes	106	8.440	8.440	(1.028)	2039784	200.000	196.34
63	o-Xylene	106	8.778	8.778	(1.069)	963054	100.000	93.92
64	Styrene	104	8.789	8.789	(1.070)	1670286	100.000	95.70
66	Bromoform	173	8.939	8.939	(1.089)	358310	100.000	100.37
67	Isopropylbenzene	105	9.093	9.093	(1.107)	2528171	100.000	96.85
68	1,1,2,2-Tetrachloroethane	83	9.348	9.348	(0.917)	738840	100.000	96.44
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	730271	100.000	95.85
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	457365	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	717651	100.000	104.79
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	154263	100.000	100.69
73	n-Propylbenzene	91	9.445	9.445	(0.926)	2866617	100.000	92.09
74	Bromobenzene	156	9.344	9.344	(0.916)	713358	100.000	91.49
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	2364404	100.000	96.92

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	1758788	100.000	91.65
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	2231619	100.000	96.49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.869	9.869	(0.968)	2033202	100.000	96.96
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	2302583	100.000	96.61
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	2810976	100.000	96.06
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	2525921	100.000	96.19
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	1374348	100.000	106.83
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	1395923	100.000	94.82
87	n-Butylbenzene	91	10.525	10.525	(1.032)	2100111	100.000	94.02
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	1340357	100.000	101.88
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	106795	100.000	100.27
90	1,2,4-Trichlorobenzene	180	11.885	11.885	(1.165)	850784	100.000	98.51
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	418542	100.000	95.36
92	Naphthalene	128	12.095	12.095	(1.186)	1962632	100.000	100.57
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	783137	100.000	98.79
146	Methyl acetate	43	2.735	2.735	(0.563)	541190	100.000	105.29(A)
138	Freon TF	101	2.371	2.371	(0.488)	552929	100.000	104.28
139	Diethyl ether	59	2.173	2.173	(0.447)	652873	100.000	106.00
141	Cyclohexane	56	4.845	4.845	(0.998)	705348	100.000	99.20
147	Methylcyclohexane	55	6.007	6.007	(1.075)	602325	100.000	102.35
132	n-Butanol	56	5.820	5.820	(1.198)	174116	2000.00	2034.31
131	Methyl Acrylate	55	4.395	4.395	(0.905)	475235	100.000	95.62
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	618897	100.000	94.51
135	1,4-Dioxane	88	6.184	6.184	(1.273)	112341	2000.00	1969.59(A)
136	n-Hexane	57	3.406	3.406	(0.701)	574420	100.000	106.11
142	Tetrahydrofuran	42	4.568	4.568	(0.941)	273406	200.000	202.23
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	599169	2000.00	2051.09
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	461950	2000.00	2034.43
151	4-Methyl-2-pentanol	45	7.230	7.230	(1.294)	1491583	2000.00	2015.18
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	2095897	100.000	96.11
167	Ethanol	45	2.090	2.090	(0.430)	90967	2000.00	2004.03
170	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.165)	850784	100.000	98.51
172	tert-Butyl formate	59	5.239	5.239	(1.079)	378619	200.000	202.89(H)
173	3,3-Dimethyl-1-butanol	57	7.796	7.796	(0.949)	749128	2000.00	1981.15
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	1114154	100.000	93.45
175	tert-Butyl ethyl ether	59	4.096	4.096	(0.843)	1214184	100.000	94.74
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	765534	100.000	102.21
156	Diisopropyl ether	45	3.664	3.664	(0.755)	1532555	100.000	104.19
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	749020	100.000	100.42
130	Ethyl Acetate	43	4.365	4.365	(0.899)	882657	100.000	93.34
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	376409	2000.00	2026.82(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: VSTD100;VSTD100;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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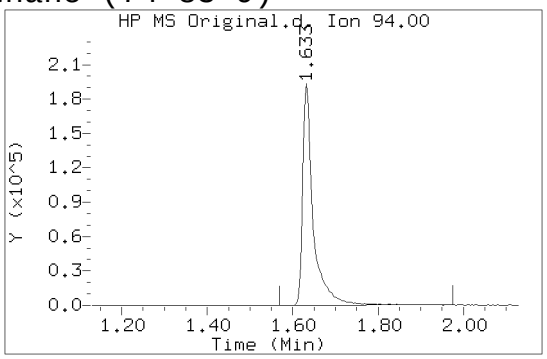
Inj Date : 16-APR-2024 14:33
InstruID : voa11.i
LabSampID : VSTD100

Bromomethane (74-83-9)

Reason Code:

BEFORE

MASS
94
AREA
336301
HEIGHT
193420
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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22-Apr-2024
09:28
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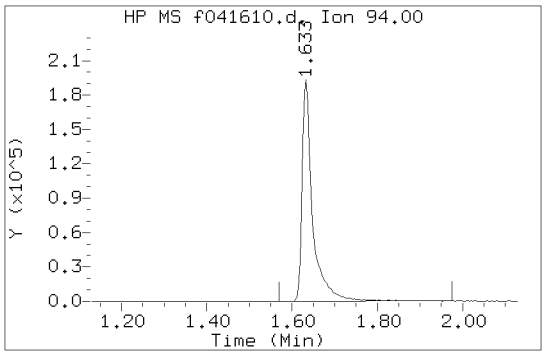

BEFORE

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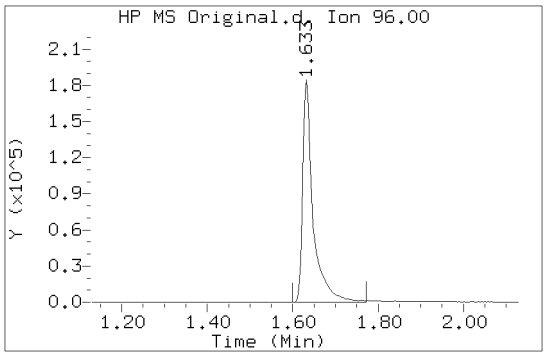

AFTER

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HEIGHT
184576
22-Apr-2024
09:28
salina
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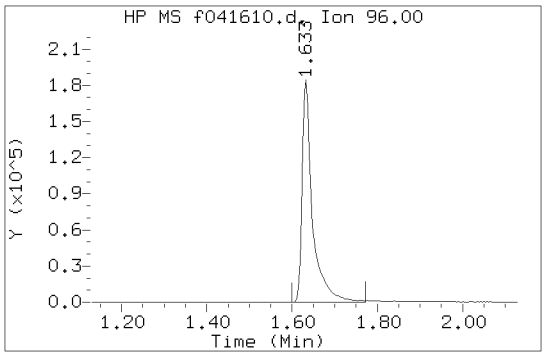

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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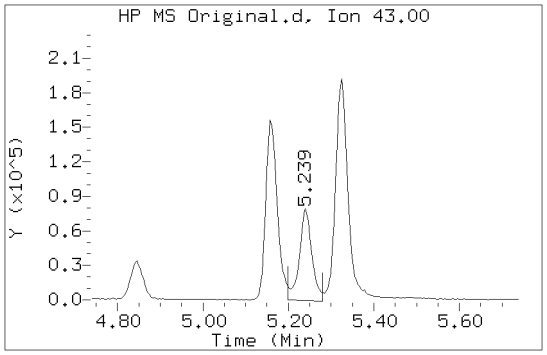
HEIGHT
79916
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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HEIGHT
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22-Apr-2024
09:28
salina
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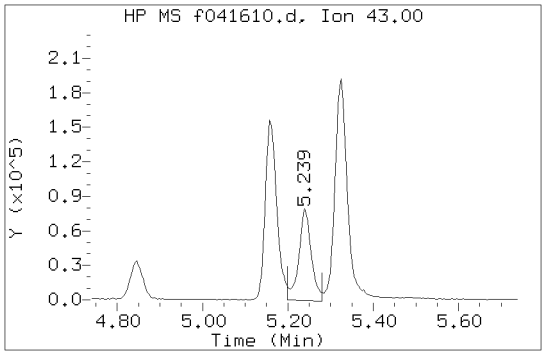

BEFORE

MASS
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AREA
159662
HEIGHT
77688
22-Apr-2024
09:21
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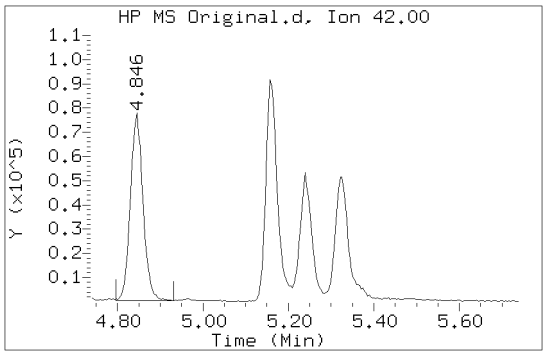
zaid



AFTER

MASS
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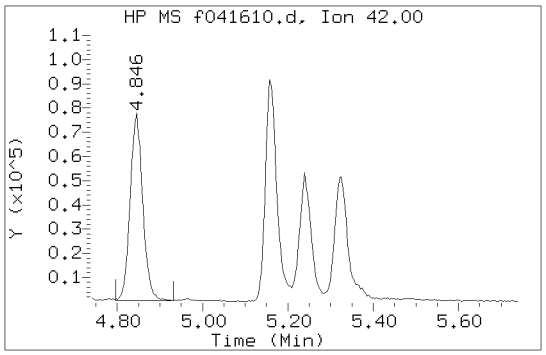
AREA
159662
HEIGHT
77688
22-Apr-2024
09:28
salina
zaid



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Inj Date : 16-APR-2024 14:33
InstruID : voa11.i
LabSampID : VSTD100

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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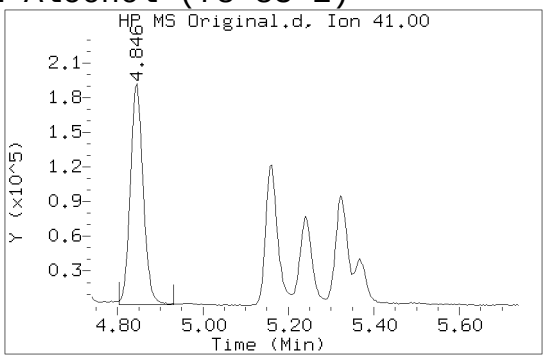
HEIGHT
191403
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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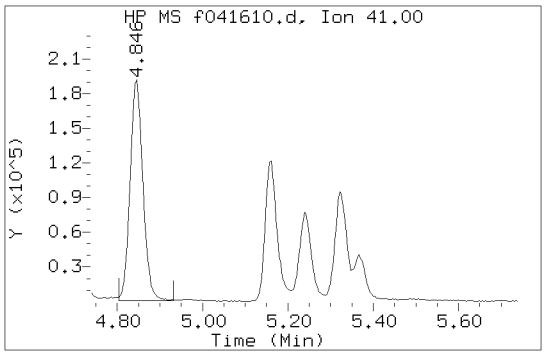
AREA
400839
HEIGHT
191403
22-Apr-2024
09:28
salina
zaid



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Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041611.D
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Inj Date : 16-APR-2024 14:55
Operator : FT Inst ID: voa11.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 22-Apr-2024 09:22 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:33 Cal File: F041610.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	531097	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	1193955	200.000	205.15(A)
3	Chloromethane	50	1.306	1.306	(0.269)	1896813	200.000	185.03(A)
4	Propionitrile	54	4.347	4.347	(0.895)	3113767	2000.00	2317.80(A)
5	Vinyl Chloride	62	1.389	1.389	(0.286)	1161543	200.000	205.12(A)
6	Bromomethane	94	1.625	1.625	(0.335)	566385	200.000	156.33(M)
7	Chloroethane	64	1.711	1.711	(0.352)	695014	200.000	191.01
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	1851423	200.000	205.36(A)
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	1733524	200.000	194.43(A)
9	Acrolein	56	2.277	2.277	(0.469)	273632	400.000	399.36
10	Acetone	43	2.424	2.424	(0.499)	628285	400.000	407.87(A)
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	997151	200.000	221.99(A)
12	Isobutyl Alcohol	43	5.243	5.243	(1.079)	489075	4000.00	4002.55(AMH)
13	Acetonitrile	39	2.705	2.705	(0.557)	1294675	2000.00	1995.38
14	Allyl Chloride	41	2.701	2.701	(0.556)	2690042	200.000	200.14(A)
15	Iodomethane	142	2.495	2.495	(0.514)	1383261	400.000	412.79(A)
16	Acrylonitrile	53	3.076	3.076	(0.633)	863604	400.000	404.90(A)
17	Methylene Chloride	84	2.821	2.821	(0.581)	1160255	200.000	200.05
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	2761458	200.000	202.86(A)
19	Carbon Disulfide	76	2.551	2.551	(0.525)	6172844	400.000	451.80(A)

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	1088299	200.000	220.75(A)
21 Vinyl Acetate	43	3.642	3.642 (0.750)	3899174	400.000	400.25(A)

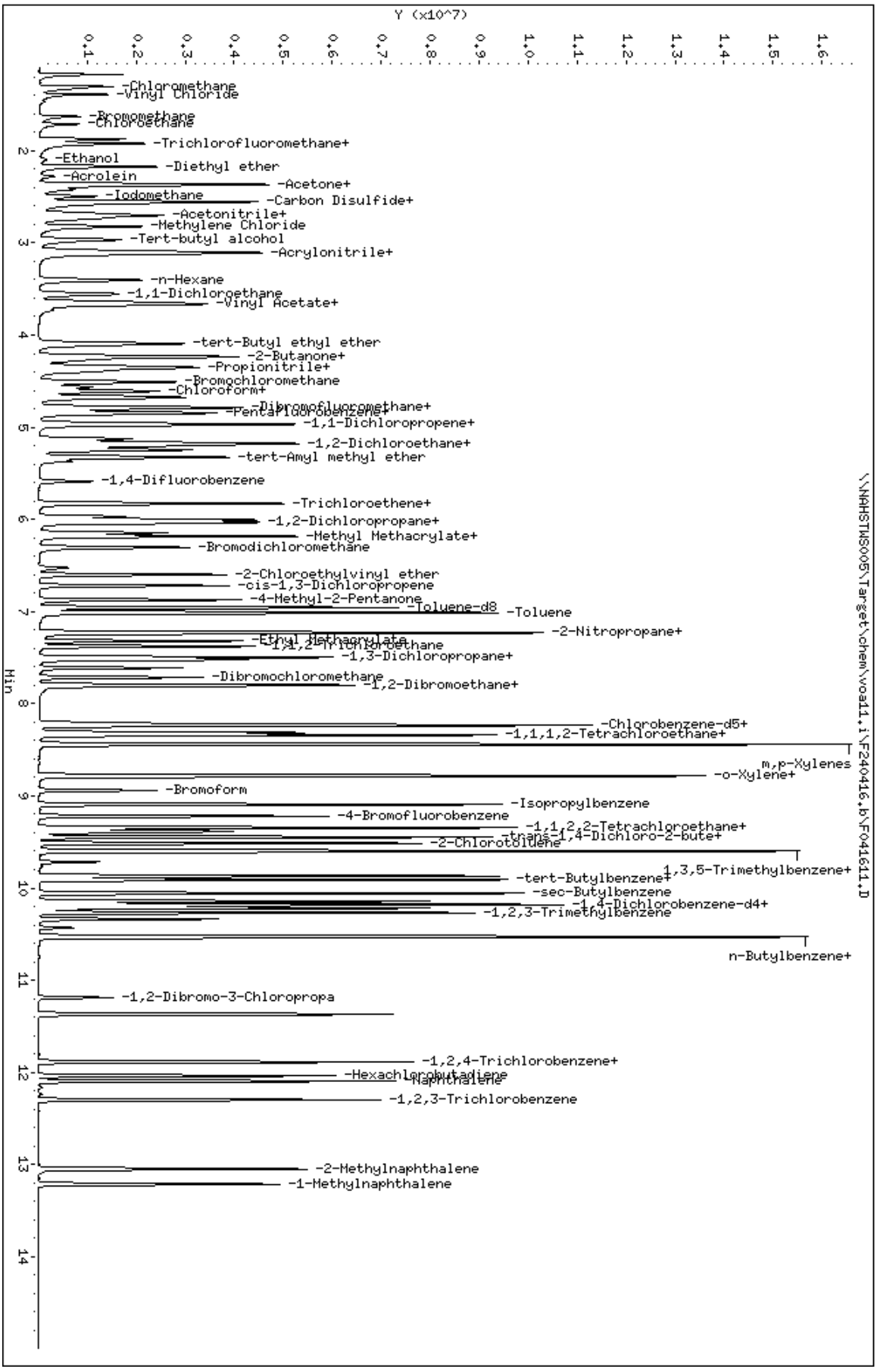
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.556	(0.732)	1733342	200.000	207.97(A)
	24 2-Butanone	43	4.279	4.279	(0.881)	853516	400.000	408.27(A)
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	815427	200.000	206.45
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	1288329	200.000	203.69(A)
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	1169557	200.000	221.80(A)
	28 Chloroform	83	4.609	4.609	(0.949)	1925410	200.000	200.12(A)
	29 Bromochloromethane	128	4.508	4.508	(0.928)	529781	200.000	181.66
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	1049258	200.000	201.45(A)
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	1782702	200.000	234.69(A)
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	1372874	200.000	223.54(A)
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	1606103	200.000	198.21
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	1563882	200.000	241.02(A)
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	1297310	200.000	201.64(A)
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	778087	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	3866098	200.000	202.83(A)
	38 Trichloroethene	130	5.827	5.827	(1.043)	1232250	200.000	216.51(A)
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	1611160	200.000	247.24(A)
	40 Methyl Methacrylate	41	6.183	6.183	(1.273)	1880399	200.000	202.87
	41 2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	1360414	400.000	402.65(A)
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	1047740	200.000	214.12(A)
	43 2-Nitropropane	43	7.233	7.233	(1.489)	1334518	200.000	240.10(A)
	44 Dibromomethane	93	6.146	6.146	(1.100)	792974	200.000	223.13(A)
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	2111882	400.000	400.00(A)
	46 cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	1728347	200.000	201.25(A)
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	780235	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	4084756	200.000	200.23(A)
	49 Ethyl Methacrylate	69	7.319	7.319	(1.310)	1718096	200.000	199.79
	50 Toluene	91	7.016	7.016	(0.854)	4698342	200.000	202.12(A)
	51 trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	1710052	200.000	199.73
	52 2-Hexanone	43	7.233	7.233	(0.880)	1334518	400.000	457.06(A)
	53 1,1,2-Trichloroethane	83	7.379	7.379	(0.898)	949148	200.000	212.99(A)
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	1909614	200.000	215.32(A)
	55 Dibromochloromethane	129	7.717	7.717	(0.939)	1380662	200.000	204.85(A)
	56 Tetrachloroethene	164	7.496	7.496	(0.912)	1107178	200.000	211.47(A)
	57 1,2-Dibromoethane	107	7.807	7.807	(0.950)	1248832	200.000	203.03(A)
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	943189	200.000	200.78(A)
	59 Chlorobenzene	112	8.238	8.238	(1.003)	3224992	200.000	193.97
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	1206776	200.000	230.31(A)
	61 Ethylbenzene	106	8.339	8.339	(1.015)	1631493	200.000	222.69(A)
	62 m,p-Xylenes	106	8.440	8.440	(1.027)	4029503	400.000	401.65(A)
	63 o-Xylene	106	8.778	8.778	(1.068)	2021582	200.000	202.87(A)
	64 Styrene	104	8.789	8.789	(1.070)	3420818	200.000	201.98(A)
	66 Bromoform	173	8.943	8.943	(1.089)	853001	200.000	199.94
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	5111519	200.000	201.63(A)
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	1533850	200.000	223.02(A)
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	1488454	200.000	202.29(A)
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	410592	50.0000	
	71 1,2,3-Trichloropropane	75	9.385	9.385	(0.920)	1577787	200.000	256.63(A)
	72 trans-1,4-Dichloro-2-butene	53	9.400	9.400	(1.144)	364794	200.000	199.92
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	5729712	200.000	203.34(A)
	74 Bromobenzene	156	9.344	9.344	(0.916)	1445423	200.000	204.18(A)
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	4456187	200.000	201.84(A)

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	3537373	200.000	203.71(A)
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	4211219	200.000	201.86(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	3851786	200.000	202.30(A)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	4367311	200.000	202.21(A)
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	5380041	200.000	202.59(A)
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	4824144	200.000	202.47(A)
83	1,3-Dichlorobenzene	146	10.146	10.146	(0.995)	2636786	200.000	228.31(A)
84	1,4-Dichlorobenzene	146	10.221	10.221	(1.002)	2656349	200.000	201.00(A)
87	n-Butylbenzene	91	10.524	10.524	(1.032)	4130424	200.000	203.36(A)
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	2642482	200.000	223.74(A)
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	275848	200.000	199.97
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	1935875	200.000	200.16(A)
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	902245	200.000	228.99(A)
92	Naphthalene	128	12.095	12.095	(1.186)	4612152	200.000	260.58(A)
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	1712256	200.000	240.39(A)
146	Methyl acetate	43	2.738	2.738	(0.564)	1181502	200.000	225.28(A)
138	Freon TF	101	2.371	2.371	(0.488)	1133855	200.000	209.58(A)
139	Diethyl ether	59	2.169	2.169	(0.447)	1320304	200.000	210.08(A)
141	Cyclohexane	56	4.845	4.845	(0.998)	1453442	200.000	200.83
147	Methylcyclohexane	55	6.004	6.004	(1.074)	1175184	200.000	198.89
132	n-Butanol	56	5.820	5.820	(1.198)	533567	4000.00	3997.31
131	Methyl Acrylate	55	4.395	4.395	(0.905)	1042092	200.000	202.78
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	1399635	200.000	204.02(A)
135	1,4-Dioxane	88	6.187	6.187	(1.274)	270120	4000.00	4003.46(A)
136	n-Hexane	57	3.402	3.402	(0.701)	1099856	200.000	197.87
142	Tetrahydrofuran	42	4.564	4.564	(0.940)	641894	400.000	399.67
148	Tert-butyl alcohol	59	2.967	2.967	(0.611)	1721193	4000.00	3995.37
149	Isopropyl alcohol	45	2.570	2.570	(0.529)	1234450	4000.00	3996.51
151	4-Methyl-2-pentanol	45	7.233	7.233	(1.295)	4457203	4000.00	3998.91
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	3997935	200.000	202.48(A)
167	Ethanol	45	2.094	2.094	(0.431)	217477	4000.00	4000.23(A)
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	1935875	200.000	200.16(A)
172	tert-Butyl formate	59	5.246	5.246	(1.080)	1168870	400.000	399.77(H)
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	2066411	4000.00	4001.92(A)
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	2547935	200.000	204.44(A)
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	2717523	200.000	203.74(A)
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	2246009	200.000	199.84
156	Diisopropyl ether	45	3.664	3.664	(0.755)	2998902	200.000	198.64
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	2088715	200.000	199.95
130	Ethyl Acetate	43	4.365	4.365	(0.899)	1999158	200.000	203.91(A)
176	tert-Amyl alcohol	59	5.246	5.246	(1.080)	1166114	4000.00	3997.94(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.



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041611.D
Date : 16-APR-2024 14:55
Client ID: VSTD200
Sample Info: VSTD200,VSTD200,1,10,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

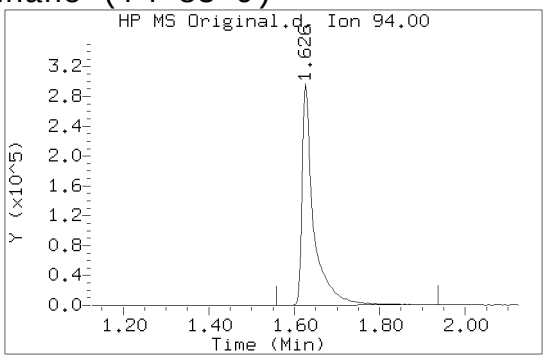
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041611.D
Inj Date : 16-APR-2024 14:55
InstruID : voa11.i
LabSampID : VSTD200

Bromomethane (74-83-9)

Reason Code:

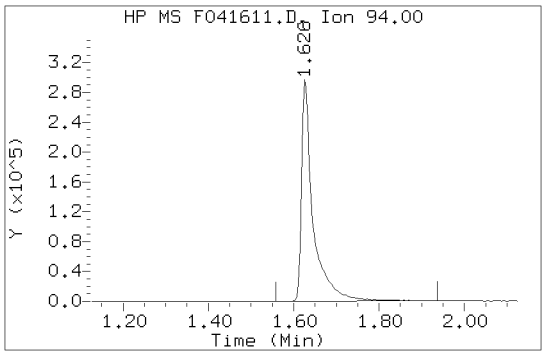
BEFORE

MASS
94
AREA
566385
HEIGHT
296970
22-Apr-2024
09:21
salina
zaid



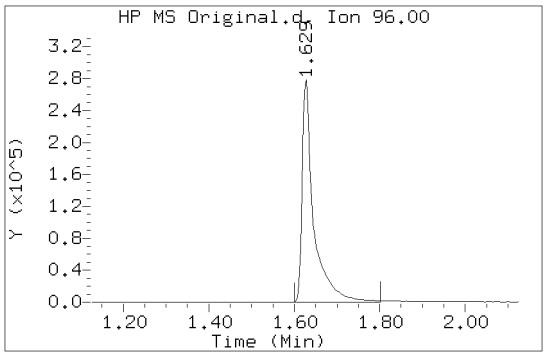
AFTER

MASS
94
AREA
566385
HEIGHT
296970
22-Apr-2024
09:21
salina
zaid



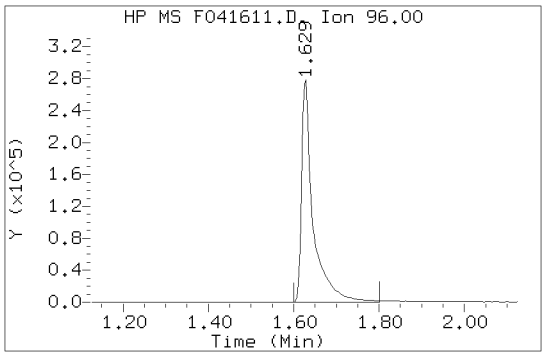
BEFORE

MASS
96
AREA
527710
HEIGHT
278238
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
96
AREA
527710
HEIGHT
278238
22-Apr-2024
09:21
salina
zaid

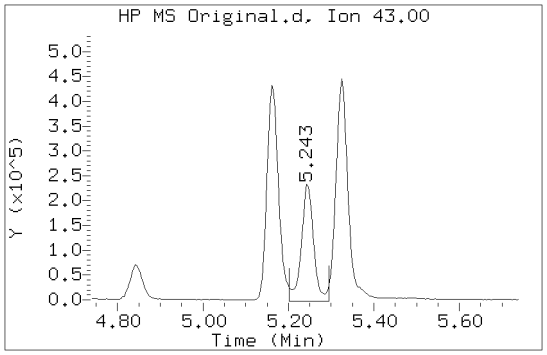


Isobutyl Alcohol (78-83-1)

Reason Code:

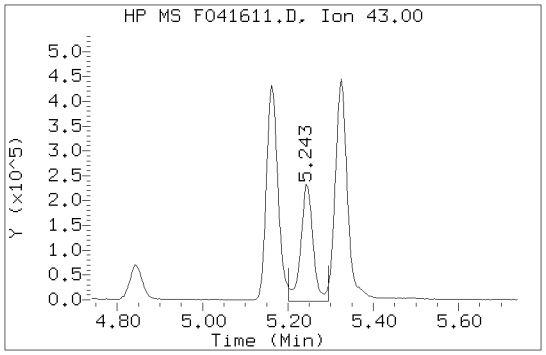
BEFORE

MASS
43
AREA
489075
HEIGHT
235285
22-Apr-2024
09:21
salina
zaid



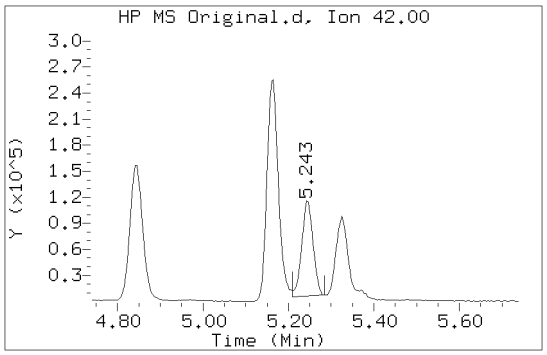
AFTER

MASS
43
AREA
489075
HEIGHT
235285
22-Apr-2024
09:21
salina
zaid



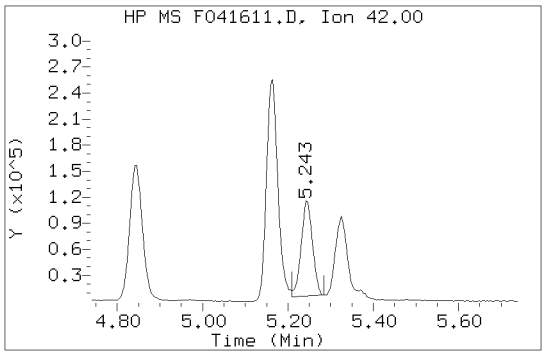
BEFORE

MASS
42
AREA
206695
HEIGHT
109677
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
42
AREA
206695
HEIGHT
109677
22-Apr-2024
09:21
salina
zaid



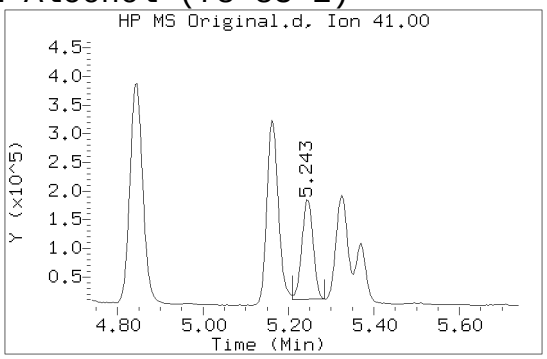
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041611.D
Inj Date : 16-APR-2024 14:55
InstruID : voa11.i
LabSampID : VSTD200

Isobutyl Alcohol (78-83-1)

Reason Code:

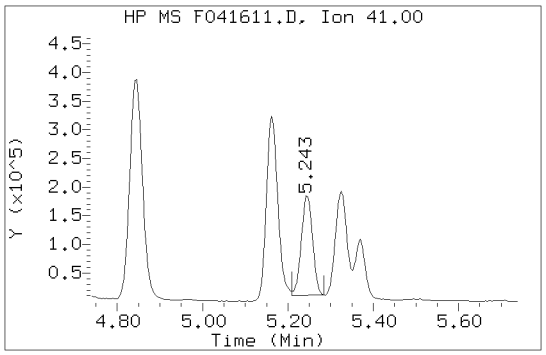
BEFORE

MASS
41
AREA
327060
HEIGHT
174386
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
327060
HEIGHT
174386
22-Apr-2024
09:21
salina
zaid



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041612.D Page 1
Report Date: 17-Apr-2024 08:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041612.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-APR-2024 15:17
Operator : FT Inst ID: voa11.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\bfb.m
Meth Date : 26-Sep-2023 10:41 firat.tast Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7142

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.220	9.280	(0.000)	95	249600			0.00- 100.00	100.00
9.220	9.280	(0.000)	50	48584			15.00- 40.00	19.46
9.220	9.280	(0.000)	75	133440			30.00- 60.00	53.46
9.220	9.280	(0.000)	96	18112			5.00- 9.00	7.26
9.220	9.280	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.220	9.280	(0.000)	174	219456			50.00- 0.00	87.92
9.220	9.280	(0.000)	175	17824			5.00- 9.00	8.12
9.220	9.280	(0.000)	176	211328			95.00- 101.00	96.30
9.220	9.280	(0.000)	177	14106			5.00- 9.00	6.67

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.46
75	30.00 - 60.00% of mass 95	53.46
96	5.00 - 9.00% of mass 95	7.26
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.92
175	5.00 - 9.00% of mass 174	7.14 (8.12)
176	95.00 - 101.00% of mass 174	84.67 (96.30)
177	5.00 - 9.00% of mass 176	5.65 (6.67)

Data File: F041612.D
Spectrum: Scan 2302 (9.22)
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2489	66.80	520	97.00	453	140.90	3884
37.00	12702	68.00	24816	102.80	235	141.60	303
38.00	11514	69.00	26768	103.80	1476	142.00	247
39.00	3597	70.00	2447	104.80	324	142.90	3513
40.10	652	72.00	1829	105.90	1428	143.90	217
40.90	160	73.00	12039	106.90	211	144.90	325
44.10	2095	74.00	47240	109.80	334	145.80	592
45.00	2002	75.00	133440	110.80	313	147.80	526
46.10	207	76.00	12022	111.90	292	148.90	280
47.00	2877	77.00	1547	112.60	315	149.90	466
47.90	1482	77.90	700	114.80	292	151.80	230
49.00	10842	78.90	11537	115.90	1210	154.80	784
50.00	48584	79.90	2620	116.90	1933	156.70	283
51.00	15209	80.90	11568	118.00	1333	158.70	327
51.90	590	81.80	2538	118.90	1462	160.90	296
54.90	804	83.00	429	122.60	169	171.70	456
56.00	4185	86.00	367	123.70	248	173.90	219456
57.00	7473	87.00	10792	127.90	1007	174.90	17824
57.90	201	88.00	9614	128.80	745	175.90	211328
60.00	2513	90.90	1179	129.90	1221	176.90	14106
61.00	13040	91.90	7795	130.80	590	177.80	453
62.00	12850	93.00	12121	134.80	406		
63.00	10186	94.00	31400	136.90	680		
64.00	905	95.00	249600	138.90	165		
64.90	383	96.00	18112	139.80	203		

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041612.d Page 1

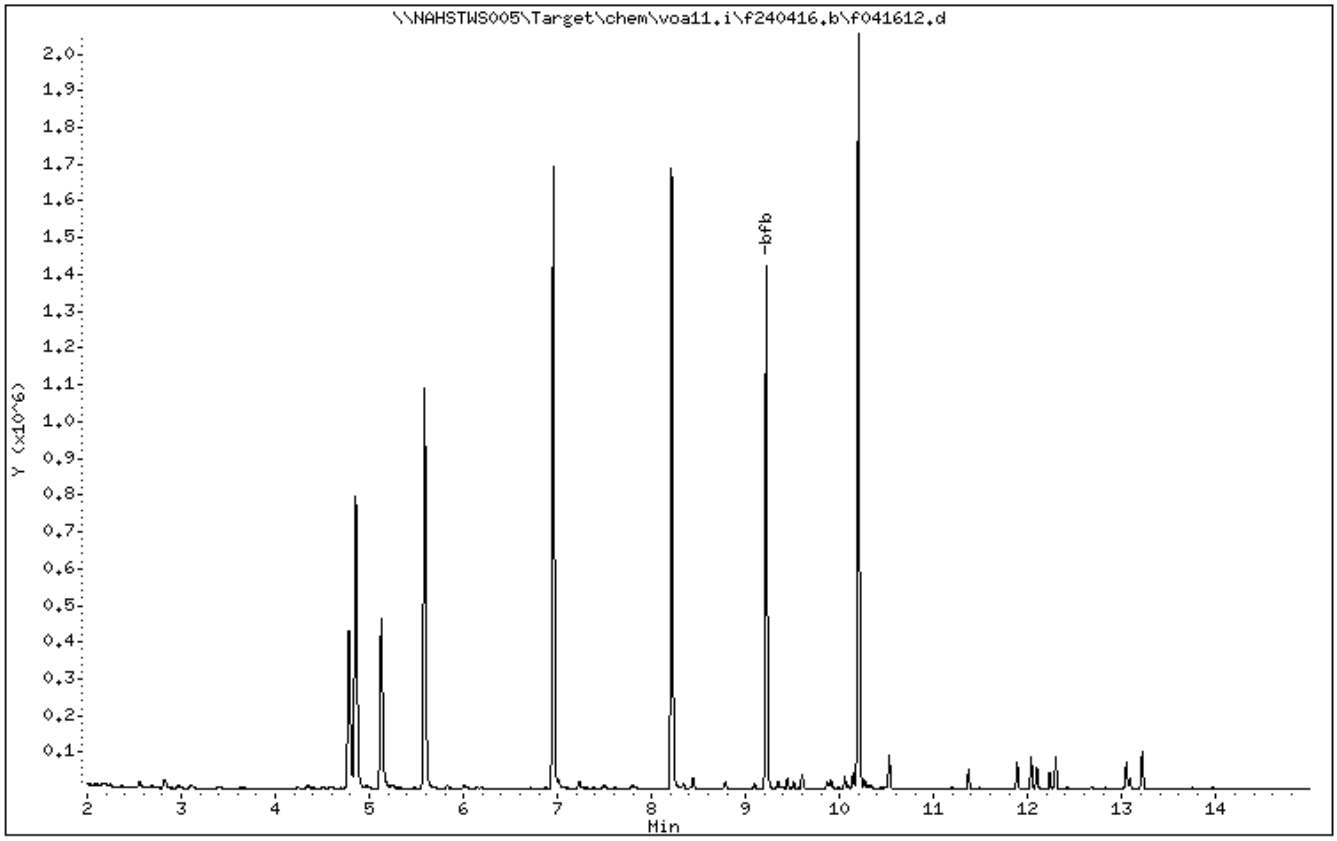
Date : 16-APR-2024 15:17

Client ID: BFB Instrument: voa11.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\voa11.i\f240416.b\f041612.d
Inj Date : 16-APR-2024 15:17
InstruID : voa11.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041613.D Page 1
Report Date: 30-Apr-2024 14:15

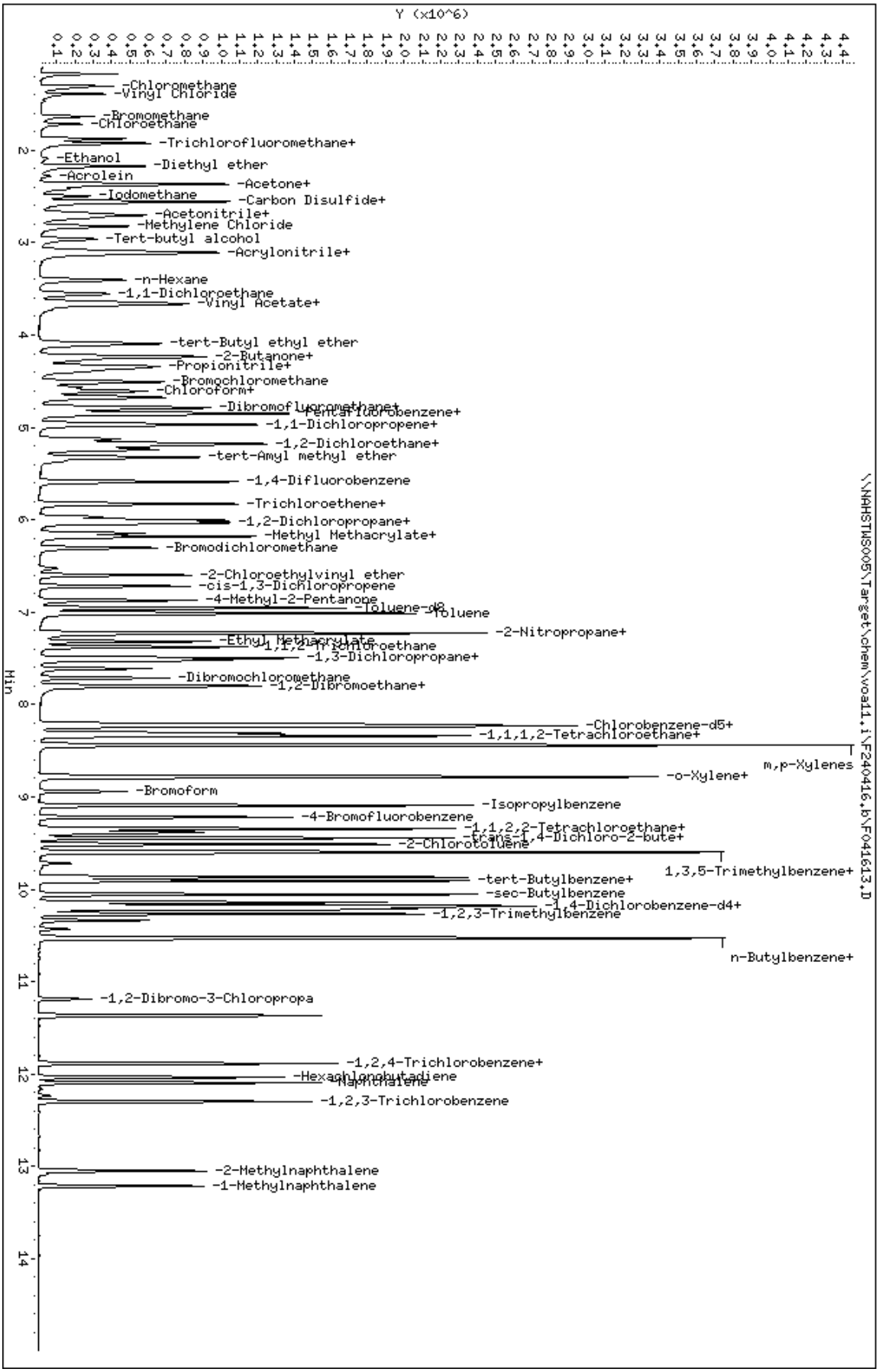
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041613.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 16-APR-2024 15:39
Operator : FT Inst ID: voa11.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 30-Apr-2024 14:08 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)



Data File: \\NAHSTWS005\Target\chem\voa11,i\F240416,b\F041613,D
Date : 16-APR-2024 15:39
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11,i
Operator: FT
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041613.D
Inj Date : 16-APR-2024 15:39
InstruID : voa11.i
LabSampID : VSTD050

 NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24040371

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

05/01/2024

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

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041612.D Page 1
Report Date: 17-Apr-2024 08:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041612.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-APR-2024 15:17
Operator : FT Inst ID: voa11.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\bfb.m
Meth Date : 26-Sep-2023 10:41 firat.tast Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7142

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.220	9.280	(0.000)	95	249600			0.00- 100.00	100.00
9.220	9.280	(0.000)	50	48584			15.00- 40.00	19.46
9.220	9.280	(0.000)	75	133440			30.00- 60.00	53.46
9.220	9.280	(0.000)	96	18112			5.00- 9.00	7.26
9.220	9.280	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.220	9.280	(0.000)	174	219456			50.00- 0.00	87.92
9.220	9.280	(0.000)	175	17824			5.00- 9.00	8.12
9.220	9.280	(0.000)	176	211328			95.00- 101.00	96.30
9.220	9.280	(0.000)	177	14106			5.00- 9.00	6.67

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.46
75	30.00 - 60.00% of mass 95	53.46
96	5.00 - 9.00% of mass 95	7.26
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.92
175	5.00 - 9.00% of mass 174	7.14 (8.12)
176	95.00 - 101.00% of mass 174	84.67 (96.30)
177	5.00 - 9.00% of mass 176	5.65 (6.67)

Data File: F041612.D
Spectrum: Scan 2302 (9.22)
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2489	66.80	520	97.00	453	140.90	3884
37.00	12702	68.00	24816	102.80	235	141.60	303
38.00	11514	69.00	26768	103.80	1476	142.00	247
39.00	3597	70.00	2447	104.80	324	142.90	3513
40.10	652	72.00	1829	105.90	1428	143.90	217
40.90	160	73.00	12039	106.90	211	144.90	325
44.10	2095	74.00	47240	109.80	334	145.80	592
45.00	2002	75.00	133440	110.80	313	147.80	526
46.10	207	76.00	12022	111.90	292	148.90	280
47.00	2877	77.00	1547	112.60	315	149.90	466
47.90	1482	77.90	700	114.80	292	151.80	230
49.00	10842	78.90	11537	115.90	1210	154.80	784
50.00	48584	79.90	2620	116.90	1933	156.70	283
51.00	15209	80.90	11568	118.00	1333	158.70	327
51.90	590	81.80	2538	118.90	1462	160.90	296
54.90	804	83.00	429	122.60	169	171.70	456
56.00	4185	86.00	367	123.70	248	173.90	219456
57.00	7473	87.00	10792	127.90	1007	174.90	17824
57.90	201	88.00	9614	128.80	745	175.90	211328
60.00	2513	90.90	1179	129.90	1221	176.90	14106
61.00	13040	91.90	7795	130.80	590	177.80	453
62.00	12850	93.00	12121	134.80	406		
63.00	10186	94.00	31400	136.90	680		
64.00	905	95.00	249600	138.90	165		
64.90	383	96.00	18112	139.80	203		

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041612.d Page 1

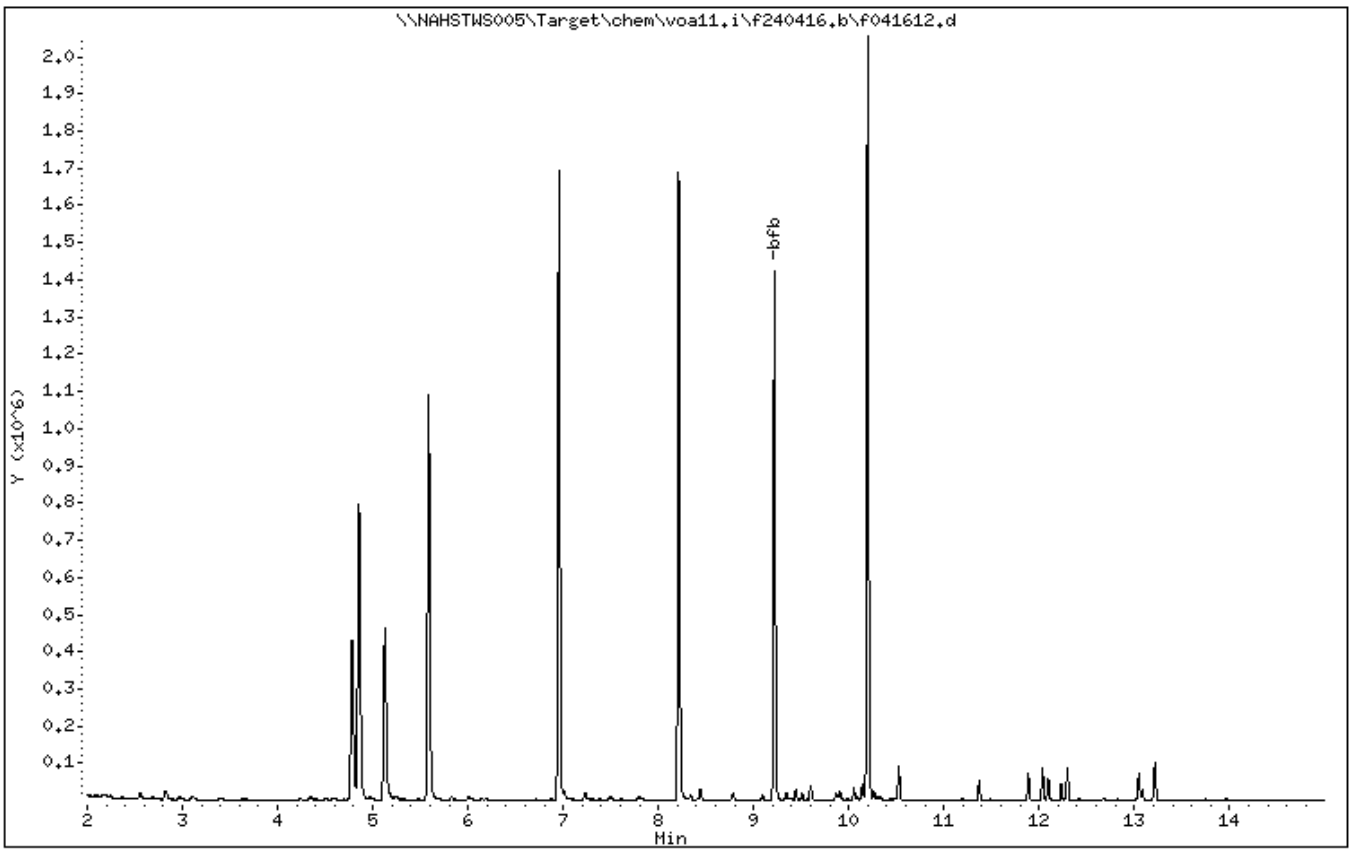
Date : 16-APR-2024 15:17

Client ID: BFB Instrument: voa11.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\voa11.i\F240416.b\F041614.D Page 1
Report Date: 01-May-2024 09:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041614.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 16-APR-2024 16:01
Operator : FT Inst ID: voa11.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 01-May-2024 09:31 salina.zai Quant Type: ISTD
Cal Date : 16-APR-2024 13:26 Cal File: F041607.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	588003	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	312215	50.0000	48.45
3	Chloromethane	50	1.306	1.306	(0.269)	498429	50.0000	43.91
4	Propionitrile	54	4.339	4.339	(0.893)	831495	500.000	559.04
5	Vinyl Chloride	62	1.389	1.389	(0.286)	299787	50.0000	47.81
6	Bromomethane	94	1.632	1.632	(0.336)	166221	50.0000	45.41
7	Chloroethane	64	1.715	1.715	(0.353)	185415	50.0000	46.02
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	469319	50.0000	47.01
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	455200	50.0000	46.11
9	Acrolein	56	2.281	2.281	(0.470)	53750	100.000	100.36
10	Acetone	43	2.423	2.423	(0.499)	154912	100.000	93.77
11	1,1-Dichloroethene	96	2.363	2.363	(0.487)	252748	50.0000	50.82
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	107797	1000.00	1186.56(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	338737	500.000	479.99
14	Allyl Chloride	41	2.701	2.701	(0.556)	713311	50.0000	49.63
15	Iodomethane	142	2.495	2.495	(0.514)	382455	100.000	112.30
16	Acrylonitrile	53	3.076	3.076	(0.633)	219707	100.000	96.22
17	Methylene Chloride	84	2.825	2.825	(0.582)	309324	50.0000	47.96
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	695592	50.0000	48.74
19	Carbon Disulfide	76	2.555	2.555	(0.526)	1565261	100.000	103.47
20	trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	287603	50.0000	52.69

21 Vinyl Acetate	43	3.642	3.642 (0.750)	1031161	100.000	98.78
22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	482459	50.0000	52.28

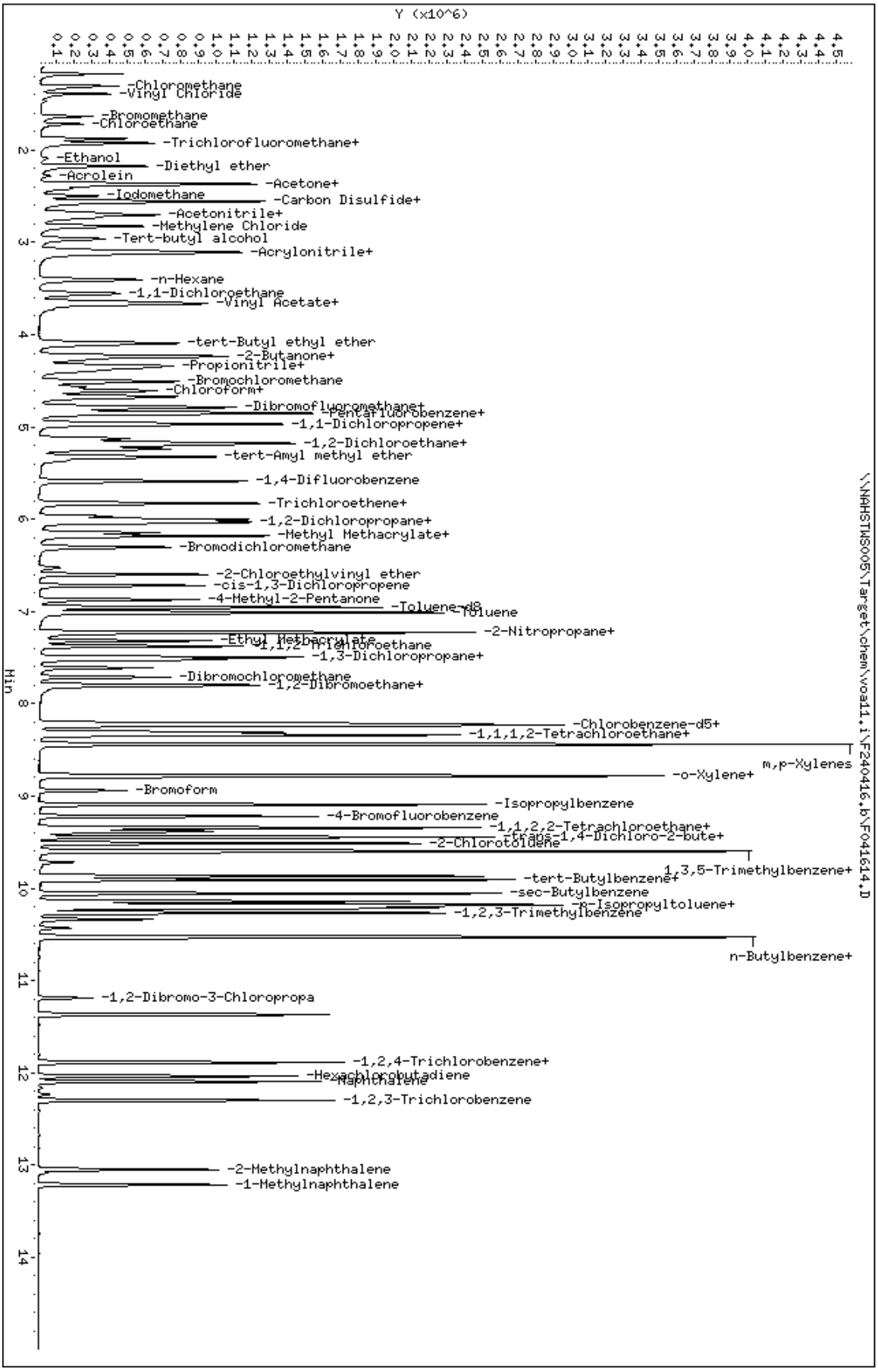
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.275	4.275	(0.880)	219722	100.000	99.30
	25	Methacrylonitrile	41	4.230	4.230	(0.871)	210851	50.0000	48.21
	26	2,2-Dichloropropane	77	4.230	4.230	(0.871)	315192	50.0000	47.49
	27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	325087	50.0000	55.68
	28	Chloroform	83	4.609	4.609	(0.949)	536630	50.0000	50.37
	29	Bromochloromethane	128	4.504	4.504	(0.927)	158917	50.0000	49.21
$	30	Dibromofluoromethane	113	4.781	4.781	(0.985)	295863	50.0000	51.55
	31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	475214	50.0000	56.50
	32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	374570	50.0000	55.09
	33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	441678	50.0000	49.24
	34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	403190	50.0000	56.13
$	35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	358036	50.0000	50.35
*	36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	861300	50.0000	
	37	Benzene	78	5.179	5.179	(0.927)	1106901	50.0000	52.46
	38	Trichloroethene	130	5.827	5.827	(1.043)	340023	50.0000	53.97
	39	Bromodichloromethane	83	6.303	6.303	(1.128)	393616	50.0000	54.56
	40	Methyl Methacrylate	41	6.180	6.180	(1.272)	468463	50.0000	48.04
	41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	343794	100.000	96.61
	42	1,2-Dichloropropane	63	6.037	6.037	(1.081)	286955	50.0000	52.97
	43	2-Nitropropane	43	7.229	7.229	(1.489)	319911	50.0000	51.98
	44	Dibromomethane	93	6.146	6.146	(1.100)	207779	50.0000	52.81
	45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	478162	100.000	119.38
	46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	430817	50.0000	47.52
*	47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	766974	50.0000	
$	48	Toluene-d8	98	6.956	6.956	(0.847)	1073590	50.0000	58.87
	49	Ethyl Methacrylate	69	7.316	7.316	(1.309)	406649	50.0000	53.30
	50	Toluene	91	7.016	7.016	(0.854)	1232208	50.0000	54.45
	51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	386762	50.0000	51.62
	52	2-Hexanone	43	7.229	7.229	(0.880)	319911	100.000	111.46
	53	1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	239998	50.0000	54.78
	54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	489989	50.0000	56.20
	55	Dibromochloromethane	129	7.717	7.717	(0.939)	311602	50.0000	49.38
	56	Tetrachloroethene	164	7.495	7.495	(0.912)	279259	50.0000	54.26
	57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	313117	50.0000	52.72
	58	1-Chlorohexane	55	8.230	8.230	(1.473)	247508	50.0000	47.39
	59	Chlorobenzene	112	8.238	8.238	(1.003)	846557	50.0000	51.79
	60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	304925	50.0000	59.20
	61	Ethylbenzene	106	8.339	8.339	(1.015)	431145	50.0000	59.86(M)
	62	m,p-Xylenes	106	8.440	8.440	(1.027)	1074646	100.000	109.18
	63	o-Xylene	106	8.778	8.778	(1.068)	518228	50.0000	53.81
	64	Styrene	104	8.789	8.789	(1.070)	884434	50.0000	53.87
	66	Bromoform	173	8.942	8.942	(1.089)	180231	50.0000	56.73
	67	Isopropylbenzene	105	9.092	9.092	(1.107)	1348928	50.0000	55.00
	68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	385199	50.0000	56.32
$	69	4-Bromofluorobenzene	95	9.220	9.220	(1.122)	394256	50.0000	54.62
*	70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	408271	50.0000	(M)
	71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	365748	50.0000	59.82(M)
	72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	77964	50.0000	57.18
	73	n-Propylbenzene	91	9.445	9.445	(0.926)	1560568	50.0000	56.71
	74	Bromobenzene	156	9.344	9.344	(0.916)	376349	50.0000	54.83
	75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1182344	50.0000	54.95
	76	2-Chlorotoluene	91	9.512	9.512	(0.933)	954037	50.0000	56.20

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1127126	50.0000	54.97
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	1006615	50.0000	54.71

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	1152780	50.0000	54.93
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	1420414	50.0000	55.23
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	1255253	50.0000	54.40
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	694315	50.0000	60.46
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	705145	50.0000	53.66
87	n-Butylbenzene	91	10.524	10.524	(1.032)	1030449	50.0000	52.68
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	678875	50.0000	57.80
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	48799	50.0000	55.81
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	431791	50.0000	59.13
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	219361	50.0000	55.99
92	Naphthalene	128	12.095	12.095	(1.186)	998184	50.0000	58.01(M)
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	429393	50.0000	60.74
146	Methyl acetate	43	2.735	2.735	(0.563)	294343	50.0000	50.69
138	Freon TF	101	2.371	2.371	(0.488)	289572	50.0000	48.34
139	Diethyl ether	59	2.172	2.172	(0.447)	350402	50.0000	50.35
141	Cyclohexane	56	4.841	4.841	(0.997)	410801	50.0000	50.90
147	Methylcyclohexane	55	6.003	6.003	(1.074)	331413	50.0000	50.47
132	n-Butanol	56	5.820	5.820	(1.198)	103372	1000.00	1168.98
131	Methyl Acrylate	55	4.395	4.395	(0.905)	286297	50.0000	52.10
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	328963	50.0000	46.84
135	1,4-Dioxane	88	6.183	6.183	(1.273)	68351	1000.00	1113.98(A)
136	n-Hexane	57	3.406	3.406	(0.701)	301428	50.0000	50.05
142	Tetrahydrofuran	42	4.568	4.568	(0.941)	161665	100.000	112.11
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	340311	1000.00	1128.85
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	259926	1000.00	1100.54
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	869329	1000.00	1149.98
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	1056869	50.0000	54.97
167	Ethanol	45	2.086	2.086	(0.430)	53950	1000.00	1095.03
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	431791	50.0000	59.13
172	tert-Butyl formate	59	5.239	5.239	(1.079)	232503	100.000	119.73
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	418335	1000.00	1240.70
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	649016	50.0000	50.13
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	710060	50.0000	50.69
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	380940	50.0000	62.61
156	Diisopropyl ether	45	3.664	3.664	(0.755)	836298	50.0000	50.98
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	428706	50.0000	68.93
130	Ethyl Acetate	43	4.365	4.365	(0.899)	531084	50.0000	50.97
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	232503	1000.00	1202.50(A)
M 94	1,2-Dichloroethylene (total)	96				612690	100.000	108.37
M 95	Xylenes (total)	106				1592874	150.000	163.00

QC Flag Legend

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



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Sample Info: VSTD050;VSTD050;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Inj Date : 16-APR-2024 16:01
InstruID : voa11.i
LabSampID : VSTD050

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

MASS
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22-Apr-2024
09:42
salina
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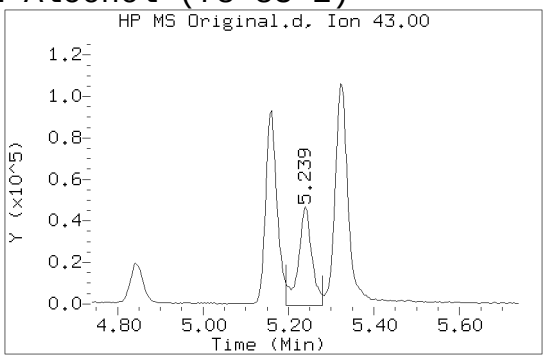

AFTER

MASS
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01-May-2024
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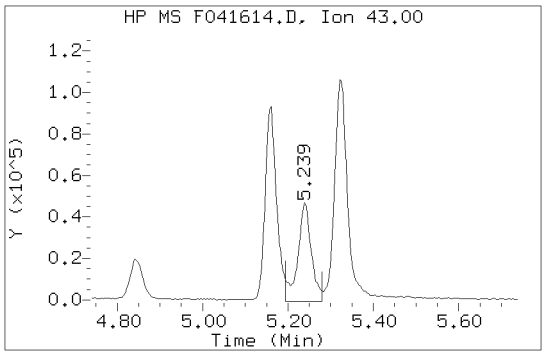
zaid



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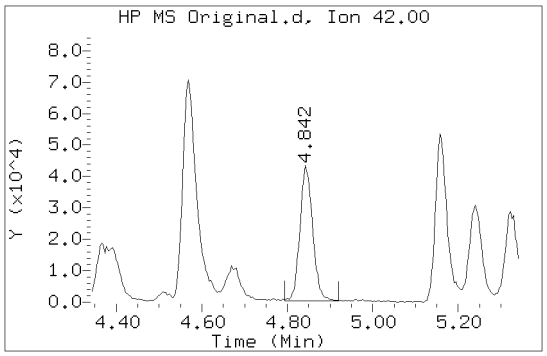

AFTER

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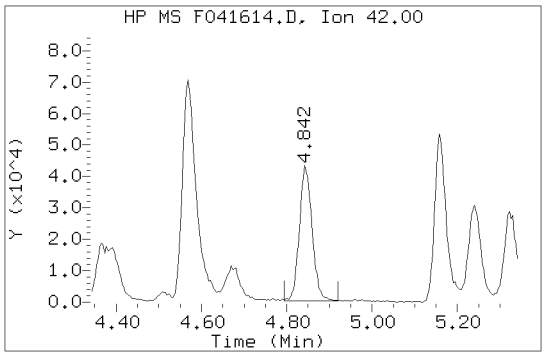

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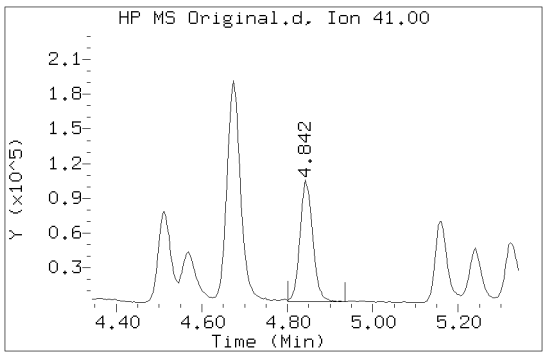

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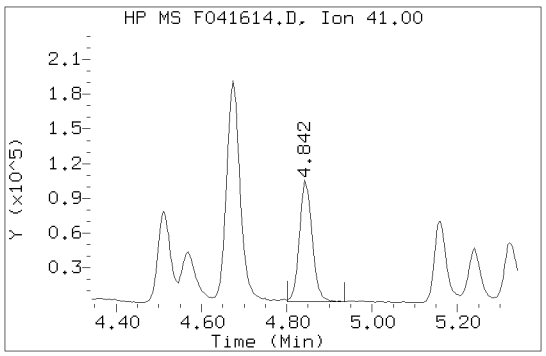

Ethylbenzene (100-41-4)

Reason Code:

BEFORE

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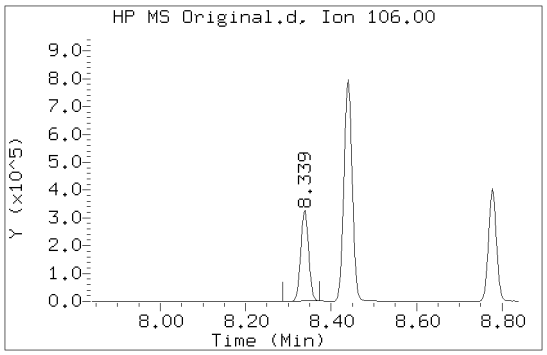

AFTER

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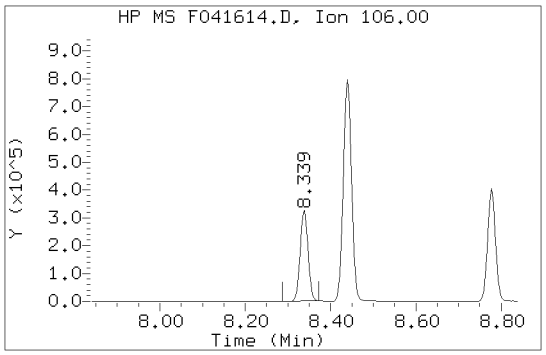

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InstruID : voa11.i
LabSampID : VSTD050

Ethylbenzene (100-41-4)

Reason Code:

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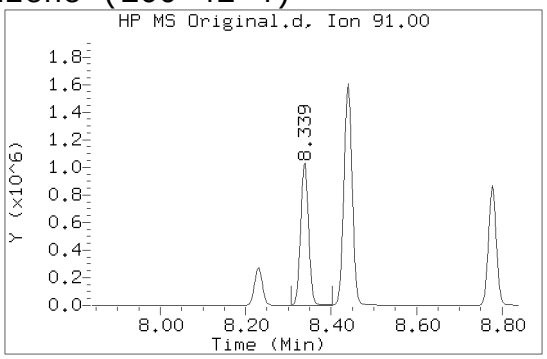

AFTER

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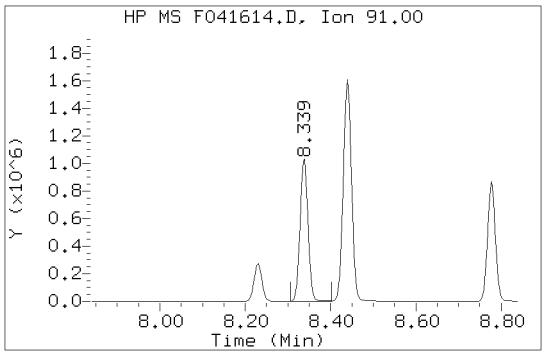

1,4-Dichlorobenzene-d4 ()

Reason Code:

BEFORE

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22-Apr-2024
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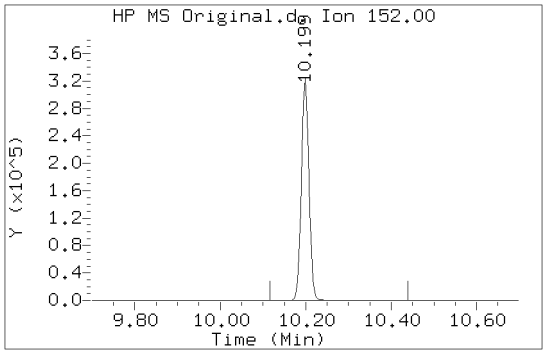

AFTER

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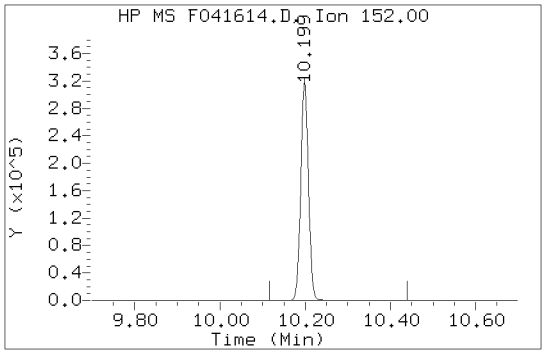

BEFORE

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22-Apr-2024
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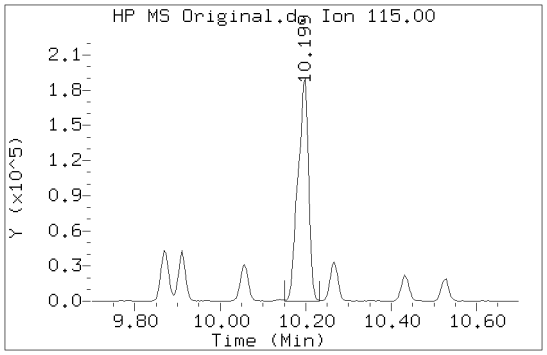

AFTER

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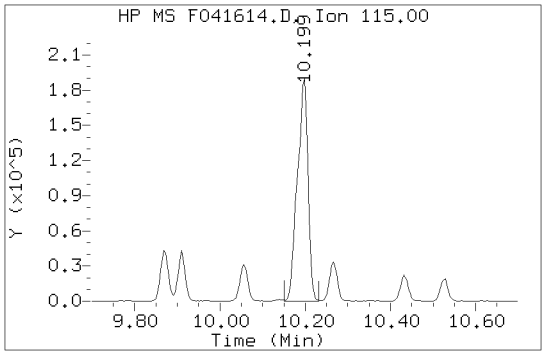

BEFORE

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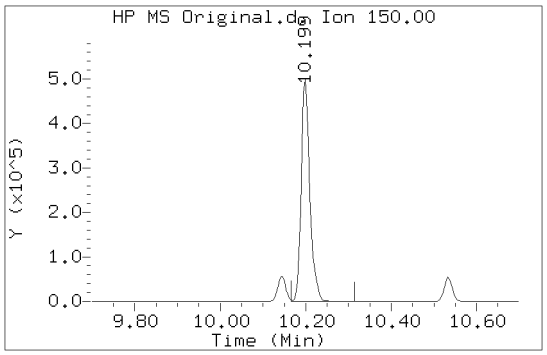

AFTER

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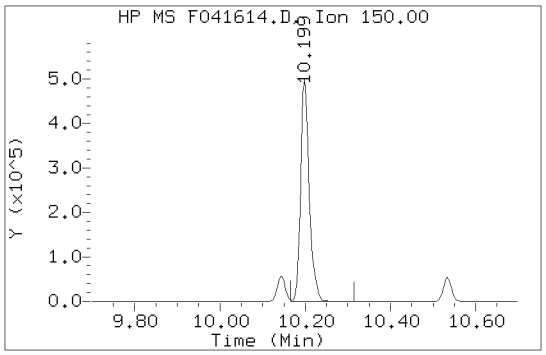

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InstruID : voa11.i
LabSampID : VSTD050

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

Reason Code:

BEFORE

MASS
75
AREA
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HEIGHT
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22-Apr-2024
09:42
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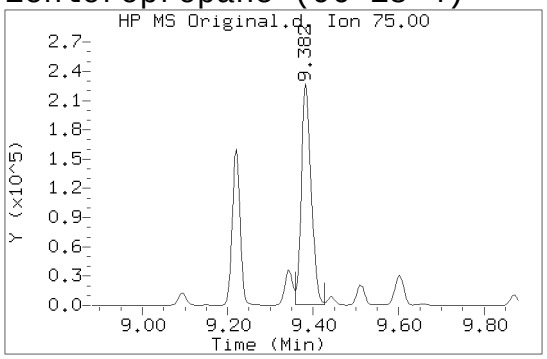

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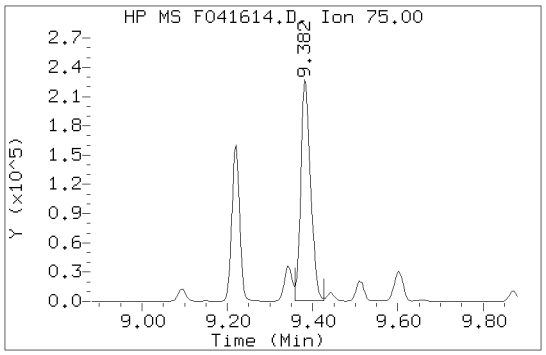

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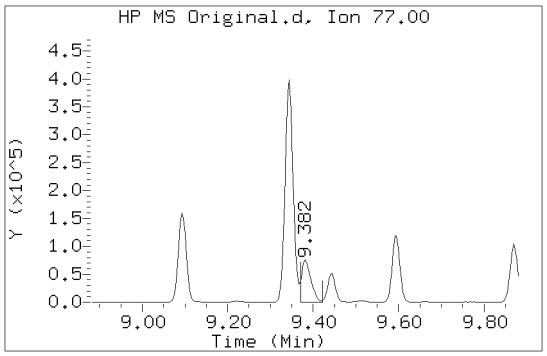

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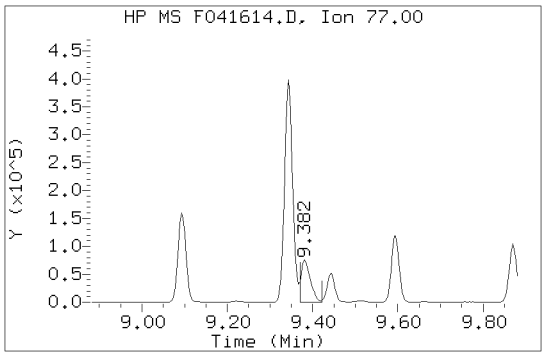

Naphthalene (91-20-3)

Reason Code:

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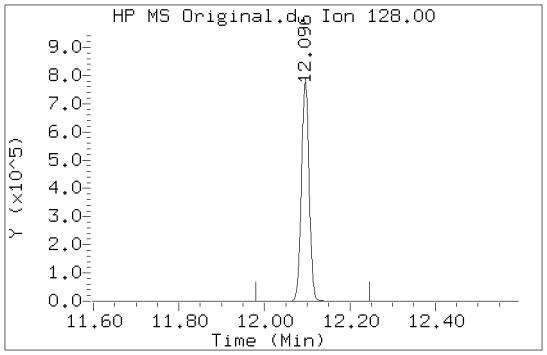

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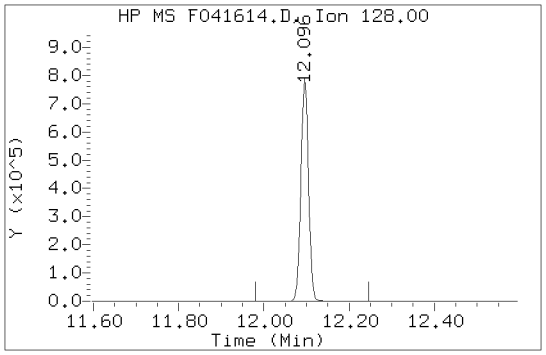

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Report Date: 22-Apr-2024 09:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041615.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.857	4.856	(1.000)	534076	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.171	(0.241)	110377	18.8604	18.86
3	Chloromethane	50	1.306	1.306	(0.269)	175577	17.0323	17.03
4	Propionitrile	54	4.335	4.339	(0.893)	287151	212.555	212.55
5	Vinyl Chloride	62	1.389	1.389	(0.286)	109650	19.2561	19.25
6	Bromomethane	94	1.629	1.632	(0.335)	68678	20.2263	20.22
7	Chloroethane	64	1.715	1.715	(0.353)	74805	20.4447	20.44
8	Trichlorofluoromethane	101	1.921	1.925	(0.396)	179949	19.8487	19.84
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	181592	20.2540	20.25
9	Acrolein	56	2.277	2.281	(0.469)	19260	42.8511	42.85
10	Acetone	43	2.420	2.423	(0.498)	60985	42.7853	42.78
11	1,1-Dichloroethene	96	2.364	2.363	(0.487)	93551	20.7110	20.71
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	35268	440.031	440.03(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	124512	200.834	200.83
14	Allyl Chloride	41	2.705	2.701	(0.557)	244942	20.1507	20.15
15	Iodomethane	142	2.495	2.495	(0.514)	138922	52.2845	52.28
16	Acrylonitrile	53	3.076	3.076	(0.633)	75070	38.7801	38.78
17	Methylene Chloride	84	2.821	2.825	(0.581)	109408	18.5142	18.51
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	239130	20.5329	20.53
19	Carbon Disulfide	76	2.555	2.555	(0.526)	548515	39.9234	39.92

20 trans-1,2-Dichloroethene	96	3.102	3.098 (0.639)	98186	19.8054	19.80
21 Vinyl Acetate	43	3.642	3.642 (0.750)	348792	39.4068	39.40

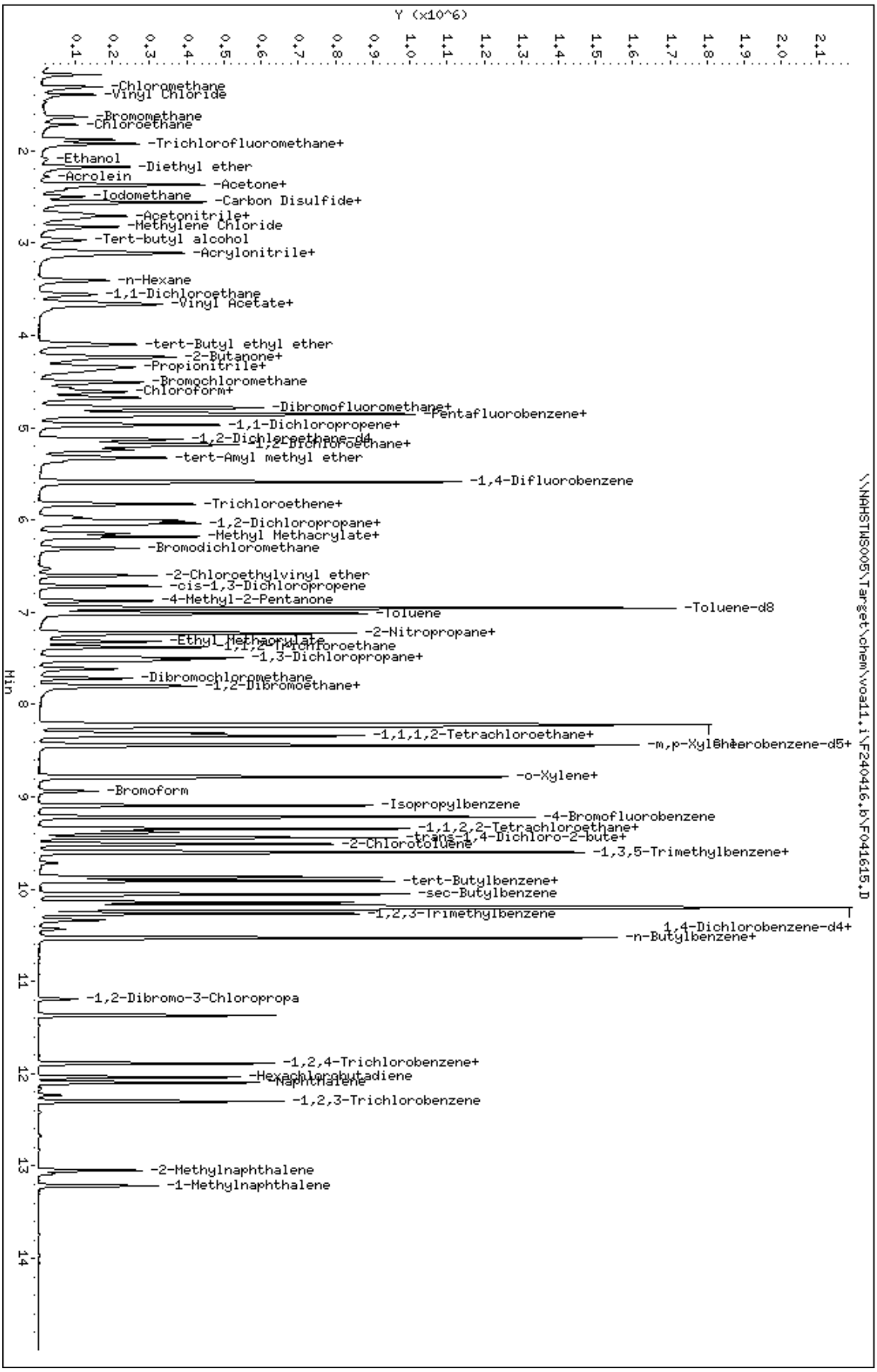
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.556	3.556	(0.732)	168799	20.1402	20.14
24	2-Butanone	43	4.275	4.275	(0.880)	72456	39.6814	39.68
25	Methacrylonitrile	41	4.230	4.230	(0.871)	75021	18.8882	18.88
26	2,2-Dichloropropane	77	4.230	4.230	(0.871)	102047	18.9824	18.98
27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	111342	20.9983	20.99
28	Chloroform	83	4.609	4.609	(0.949)	187569	19.3865	19.38
29	Bromochloromethane	128	4.508	4.504	(0.928)	56589	19.2963	19.29
$ 30	Dibromofluoromethane	113	4.782	4.781	(0.985)	240881	46.2428	46.24
31	1,1,1-Trichloroethane	97	4.793	4.789	(0.987)	164256	21.5037	21.50
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	132498	20.0693	20.06
33	1,2-Dichloroethane	62	5.201	5.205	(0.931)	171044	19.6365	19.63
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	132772	19.0353	19.03
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	279178	43.2431	43.24
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	836443	50.0000	
37	Benzene	78	5.183	5.179	(0.928)	390798	19.0732	19.07
38	Trichloroethene	130	5.827	5.827	(1.043)	113515	18.5540	18.55
39	Bromodichloromethane	83	6.303	6.303	(1.128)	137675	19.6533	19.65
40	Methyl Methacrylate	41	6.180	6.180	(1.272)	158264	19.8085	19.80
41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	109416	35.7469	35.74
42	1,2-Dichloropropane	63	6.037	6.037	(1.081)	100489	19.1042	19.10
43	2-Nitropropane	43	7.229	7.229	(1.489)	129322	23.1379	23.13
44	Dibromomethane	93	6.146	6.146	(1.100)	77002	20.1559	20.15
45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	173144	45.1623	45.16
46	cis-1,3-Dichloropropene	75	6.720	6.719	(1.203)	151197	18.9931	18.99
* 47	Chlorobenzene-d5	117	8.212	8.215	(1.000)	781086	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	953407	51.4848	51.48
49	Ethyl Methacrylate	69	7.319	7.316	(1.310)	146888	21.3800	21.37
50	Toluene	91	7.012	7.016	(0.854)	476819	21.1356	21.13
51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	127796	19.2702	19.27
52	2-Hexanone	43	7.229	7.229	(0.880)	129322	44.2441	44.24
53	1,1,2-Trichloroethane	83	7.376	7.375	(0.898)	93596	20.9807	20.98
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	187160	21.0810	21.08
55	Dibromochloromethane	129	7.713	7.717	(0.939)	106186	18.5520	18.55
56	Tetrachloroethene	164	7.492	7.495	(0.912)	103716	19.7889	19.78
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	118326	20.3561	20.35
58	1-Chlorohexane	55	8.227	8.230	(1.472)	94754	18.5267	18.52
59	Chlorobenzene	112	8.238	8.238	(1.003)	315265	18.9414	18.94
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	107285	20.4531	20.45
61	Ethylbenzene	106	8.339	8.339	(1.016)	156623	21.3550	21.35
62	m,p-Xylenes	106	8.440	8.440	(1.028)	381945	38.2964	38.29
63	o-Xylene	106	8.778	8.778	(1.069)	180588	19.2271	19.22
64	Styrene	104	8.789	8.789	(1.070)	309341	19.1764	19.17
66	Bromoform	173	8.939	8.942	(1.089)	57936	19.1201	19.12
67	Isopropylbenzene	105	9.093	9.092	(1.107)	466576	19.4681	19.46
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	147768	19.3260	19.32
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	340151	46.2997	46.29
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	456487	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	134384	19.6606	19.66
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	26199	20.1355	20.13
73	n-Propylbenzene	91	9.441	9.445	(0.926)	582509	19.8621	19.86
74	Bromobenzene	156	9.344	9.344	(0.916)	146847	20.3413	20.34
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	425974	18.7261	18.72

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	356451	19.6526	19.65
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	419766	18.8950	18.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.869	9.868	(0.968)	360122	18.9320	18.93
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	411953	18.7195	18.71
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	537814	20.0006	20.00
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	473147	19.6184	19.61
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	275806	21.4805	21.48
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	284000	19.3294	19.32
87	n-Butylbenzene	91	10.525	10.524	(1.032)	383446	19.0086	19.00
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	265143	20.1930	20.19
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	16641	18.5953	18.59
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	160154	20.5331	20.53
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	82348	18.7989	18.79
92	Naphthalene	128	12.095	12.095	(1.186)	384969	21.0974	21.09
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	163593	20.8018	20.80
146	Methyl acetate	43	2.735	2.735	(0.563)	97228	18.4356	18.43
138	Freon TF	101	2.371	2.371	(0.488)	103703	19.0614	19.06
139	Diethyl ether	59	2.169	2.172	(0.447)	140801	22.2786	22.27
141	Cyclohexane	56	4.845	4.841	(0.998)	140199	18.8266	18.82
147	Methylcyclohexane	55	6.004	6.003	(1.074)	117041	18.1881	18.18
132	n-Butanol	56	5.820	5.820	(1.198)	28845	401.039	401.03
131	Methyl Acrylate	55	4.395	4.395	(0.905)	93434	20.2377	20.23
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	97726	18.3383	18.33
135	1,4-Dioxane	88	6.187	6.183	(1.274)	21637	407.801	407.80(A)
136	n-Hexane	57	3.406	3.406	(0.701)	94569	18.2198	18.21
142	Tetrahydrofuran	42	4.572	4.568	(0.941)	51737	42.2225	42.22
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	107874	430.383	430.38
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	92160	460.812	460.81
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	281933	421.041	421.04
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	409806	20.0828	20.08
167	Ethanol	45	2.090	2.086	(0.430)	21843	485.902	485.90
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	160154	20.5331	20.53
172	tert-Butyl formate	59	5.239	5.239	(1.079)	70761	43.7560	43.75
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	143842	440.443	440.44
174	tert-Amyl methyl ether	73	5.321	5.325	(1.096)	213027	20.6882	20.68
175	tert-Butyl ethyl ether	59	4.096	4.095	(0.843)	233706	20.5468	20.54
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	109617	19.5055	19.50
156	Diisopropyl ether	45	3.664	3.664	(0.755)	291879	20.3785	20.37
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	130680	21.6794	21.67
130	Ethyl Acetate	43	4.365	4.365	(0.899)	178438	20.5492	20.54
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	70761	439.827	439.82(A)
M 94	1,2-Dichloroethylene (total)	96				209528	40.8037	40.80
M 95	Xylenes (total)	106				562533	57.5235	57.52

QC Flag Legend

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



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Operator: FT
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Inj Date : 16-APR-2024 16:23
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LabSampID : VLCSW-240416

Isobutyl Alcohol (78-83-1)

Reason Code:

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22-Apr-2024
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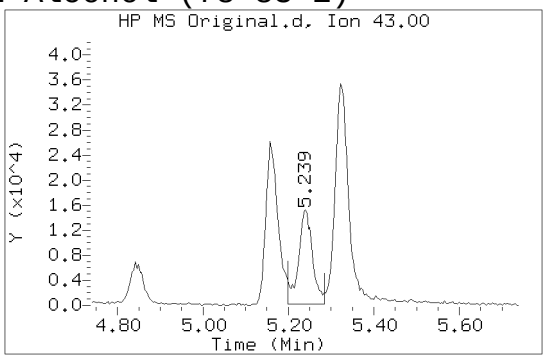

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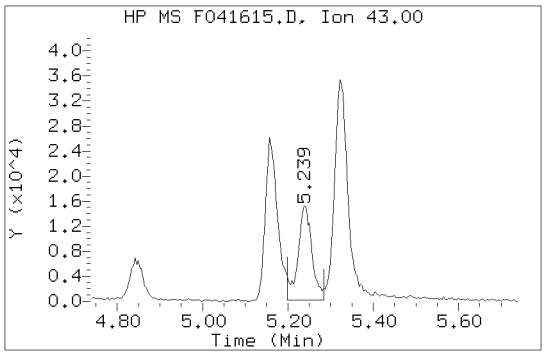

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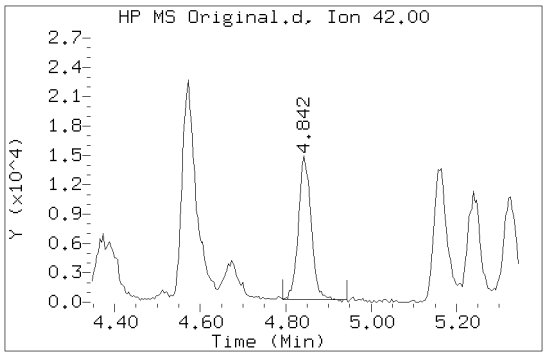

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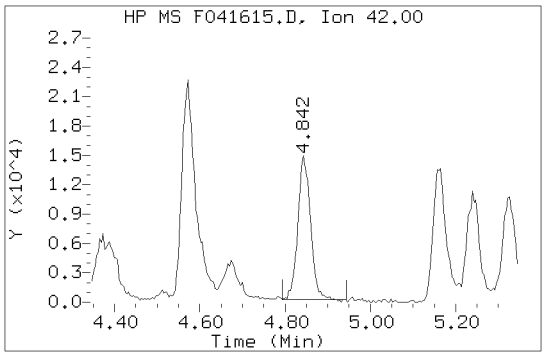

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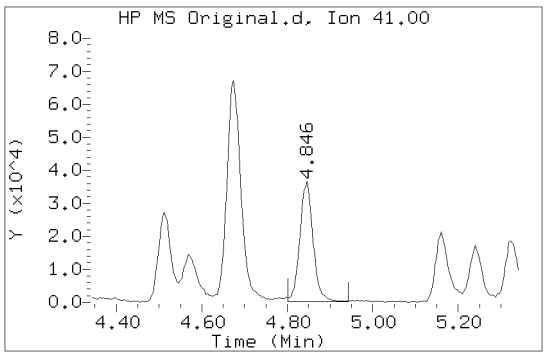

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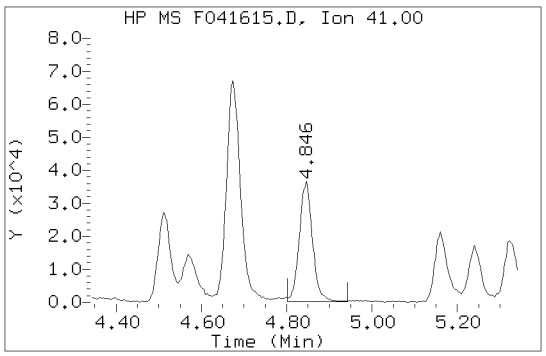

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Report Date: 22-Apr-2024 09:51

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Misc Info : V11;WATER;0;1;
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Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 15 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.856	4.856	(1.000)	533459	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.241)	105779	18.0956	18.09
3 Chloromethane	50	1.306	1.306	(0.269)	183163	17.7887	17.78
4 Propionitrile	54	4.339	4.339	(0.893)	275825	204.408	204.40
5 Vinyl Chloride	62	1.389	1.389	(0.286)	105277	18.5095	18.50
6 Bromomethane	94	1.625	1.632	(0.335)	56319	16.3678	16.36
7 Chloroethane	64	1.715	1.715	(0.353)	68844	18.8373	18.83
8 Trichlorofluoromethane	101	1.921	1.925	(0.396)	166902	18.4309	18.43
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	172514	19.2637	19.26
9 Acrolein	56	2.277	2.281	(0.469)	17369	39.0676	39.06
10 Acetone	43	2.424	2.423	(0.499)	58253	41.0810	41.08
11 1,1-Dichloroethene	96	2.364	2.363	(0.487)	89409	19.8169	19.81
12 Isobutyl Alcohol	43	5.239	5.239	(1.079)	29295	364.998	364.99(M)
13 Acetonitrile	39	2.705	2.705	(0.557)	121577	196.575	196.57
14 Allyl Chloride	41	2.701	2.701	(0.556)	258185	21.1414	21.14
15 Iodomethane	142	2.499	2.495	(0.515)	131232	50.1140	50.11
16 Acrylonitrile	53	3.080	3.076	(0.634)	75265	38.9103	38.91
17 Methylene Chloride	84	2.825	2.825	(0.582)	118031	20.0181	20.01
18 Methyl tert-butyl ether	73	3.117	3.113	(0.642)	241961	20.7564	20.75
19 Carbon Disulfide	76	2.555	2.555	(0.526)	513973	37.4525	37.45

20 trans-1,2-Dichloroethene	96	3.102	3.098 (0.639)	98446	19.8808	19.88
21 Vinyl Acetate	43	3.646	3.642 (0.751)	335930	38.1468	38.14

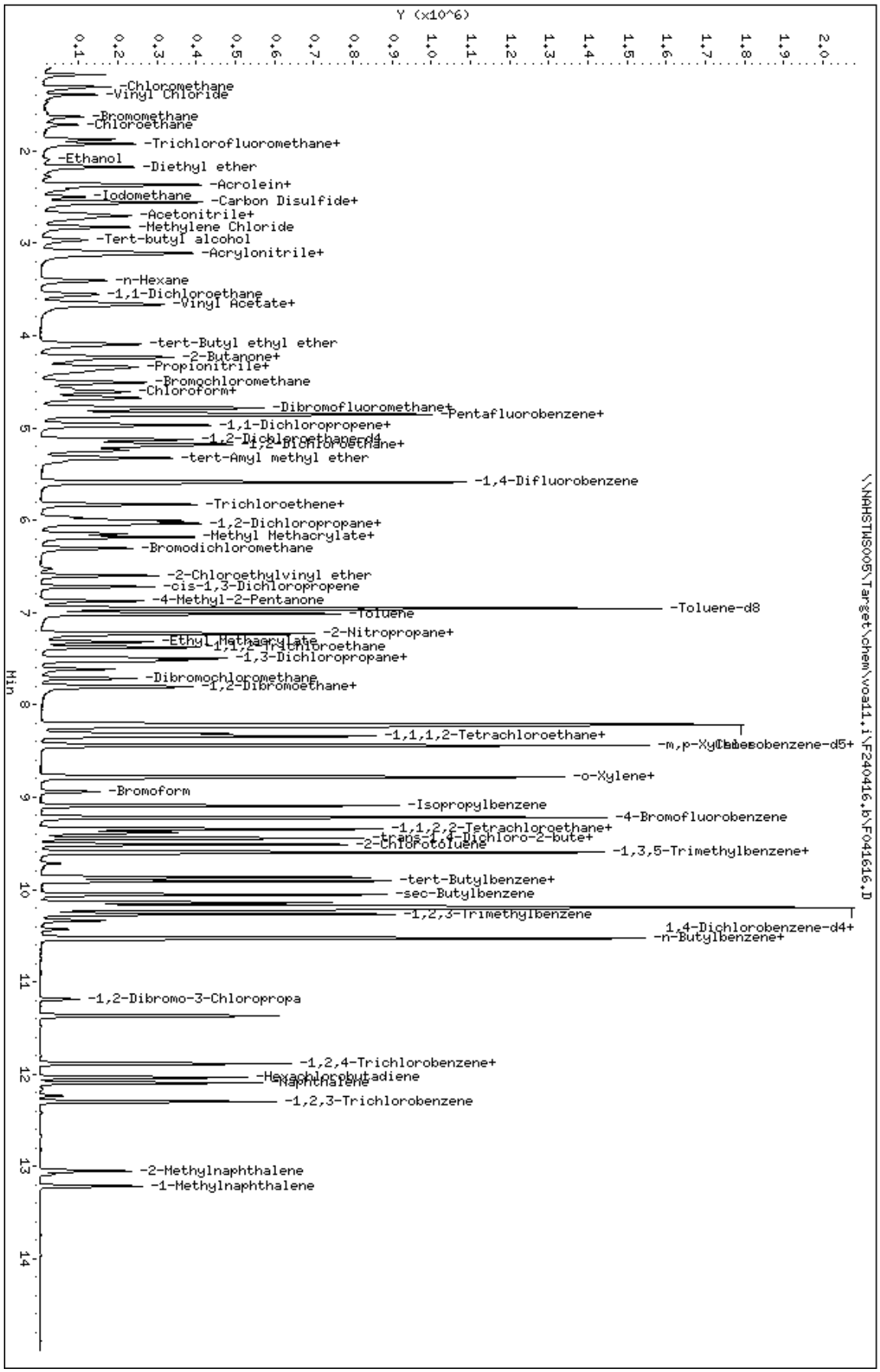
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.552	3.556	(0.731)	159511	19.0540	19.05
	24 2-Butanone	43	4.279	4.275	(0.881)	70271	38.6946	38.69
	25 Methacrylonitrile	41	4.234	4.230	(0.872)	71464	18.0135	18.01
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	95610	18.0033	18.00
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	106058	20.0249	20.02
	28 Chloroform	83	4.609	4.609	(0.949)	181346	18.7650	18.76
	29 Bromochloromethane	128	4.504	4.504	(0.927)	55883	19.0776	19.07
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	239138	45.9632	45.96
	31 1,1,1-Trichloroethane	97	4.793	4.789	(0.987)	151523	19.8597	19.85
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	117918	18.6465	18.64
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	162986	19.5345	19.53
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	119707	17.9171	17.91
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	287189	44.5319	44.53
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	801202	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	368591	18.7807	18.78
	38 Trichloroethene	130	5.827	5.827	(1.043)	107689	18.3760	18.37
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	126489	18.8507	18.85
	40 Methyl Methacrylate	41	6.183	6.180	(1.273)	149533	18.9043	18.90
	41 2-Chloroethylvinyl ether	63	6.603	6.600	(1.182)	105903	36.0574	36.05
	42 1,2-Dichloropropane	63	6.041	6.037	(1.081)	95411	18.9367	18.93
	43 2-Nitropropane	43	7.229	7.229	(1.489)	106305	19.0418	19.04
	44 Dibromomethane	93	6.146	6.146	(1.100)	71336	19.4941	19.49
	45 4-Methyl-2-Pentanone	43	6.877	6.873	(0.837)	145161	37.2353	37.23
	46 cis-1,3-Dichloropropene	75	6.720	6.719	(1.203)	130875	17.4377	17.43
*	47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	803157	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	875131	46.0364	46.03
	49 Ethyl Methacrylate	69	7.319	7.316	(1.310)	126490	19.4067	19.40
	50 Toluene	91	7.016	7.016	(0.854)	405975	17.6242	17.62
	51 trans-1,3-Dichloropropene	75	7.222	7.218	(1.292)	112116	17.8189	17.81
	52 2-Hexanone	43	7.229	7.229	(0.880)	106305	35.3700	35.37
	53 1,1,2-Trichloroethane	83	7.376	7.375	(0.898)	84462	18.4129	18.41
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	168954	18.5074	18.50
	55 Dibromochloromethane	129	7.717	7.717	(0.940)	101812	17.5049	17.50
	56 Tetrachloroethene	164	7.492	7.495	(0.912)	88765	16.4709	16.47
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	113591	19.0881	19.08
	58 1-Chlorohexane	55	8.227	8.230	(1.472)	87046	17.7575	17.75
	59 Chlorobenzene	112	8.238	8.238	(1.003)	306952	17.9351	17.93
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	103495	19.1884	19.18
	61 Ethylbenzene	106	8.339	8.339	(1.016)	149857	19.8710	19.87
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	364711	35.5844	35.58
	63 o-Xylene	106	8.778	8.778	(1.069)	195508	20.1783	20.17
	64 Styrene	104	8.789	8.789	(1.070)	333108	20.0340	20.03
	66 Bromoform	173	8.939	8.942	(1.089)	56005	18.0325	18.03
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	475926	19.3221	19.32
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	133505	18.3982	18.39
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	373116	49.3806	49.38
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	433223	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	124269	19.1570	19.15
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	22288	16.8338	16.83
	73 n-Propylbenzene	91	9.441	9.445	(0.926)	516496	18.6486	18.64
	74 Bromobenzene	156	9.344	9.344	(0.916)	130318	19.1413	19.14
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	396430	18.3922	18.39

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	342384	19.8749	19.87
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	394640	18.7261	18.72

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	332756	18.4880	18.48
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	398102	19.0304	19.03
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	476110	18.7884	18.78
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	417950	18.3937	18.39
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	246682	20.2440	20.24
84	1,4-Dichlorobenzene	146	10.221	10.217	(1.002)	270024	19.3651	19.36
87	n-Butylbenzene	91	10.524	10.524	(1.032)	376958	19.6111	19.61
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	266030	21.3485	21.34
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	16250	19.0935	19.09
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	159732	21.5543	21.55
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	81135	19.5166	19.51
92	Naphthalene	128	12.095	12.095	(1.186)	342947	19.9055	19.90
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	148569	19.9126	19.91
146	Methyl acetate	43	2.738	2.735	(0.564)	108482	20.5932	20.59
138	Freon TF	101	2.371	2.371	(0.488)	98546	18.1345	18.13
139	Diethyl ether	59	2.172	2.172	(0.447)	137998	21.8604	21.86
141	Cyclohexane	56	4.845	4.841	(0.998)	133460	17.9197	17.91
147	Methylcyclohexane	55	6.004	6.003	(1.074)	110040	17.8475	17.84
132	n-Butanol	56	5.824	5.820	(1.199)	25838	363.730	363.73
131	Methyl Acrylate	55	4.395	4.395	(0.905)	90355	19.6689	19.66
133	Ethyl Acrylate	55	5.970	5.966	(1.229)	87445	16.8952	16.89
135	1,4-Dioxane	88	6.191	6.183	(1.275)	20781	392.770	392.76(A)
136	n-Hexane	57	3.406	3.406	(0.701)	88762	17.2066	17.20
142	Tetrahydrofuran	42	4.572	4.568	(0.941)	50413	41.2597	41.25
148	Tert-butyl alcohol	59	2.967	2.963	(0.611)	105629	422.628	422.62
149	Isopropyl alcohol	45	2.570	2.562	(0.529)	83825	422.490	422.48
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	222803	353.248	353.24
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	405089	20.8529	20.85
167	Ethanol	45	2.090	2.086	(0.430)	19354	428.609	428.60
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	159732	21.5543	21.55
172	tert-Butyl formate	59	5.243	5.239	(1.079)	61042	38.2069	38.20
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	126589	377.883	377.88
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	200600	19.7343	19.73
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	228452	20.1810	20.18
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	90802	17.4706	17.47
156	Diisopropyl ether	45	3.664	3.664	(0.755)	281619	19.7283	19.72
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	105918	18.8879	18.88
130	Ethyl Acetate	43	4.369	4.365	(0.900)	174764	20.2016	20.20
176	tert-Amyl alcohol	59	5.243	5.239	(1.079)	61042	384.105	384.10(A)
M 94	1,2-Dichloroethylene (total)	96				204504	39.9057	39.90
M 95	Xylenes (total)	106				560219	55.7627	55.76

QC Flag Legend

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



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Sample Info: VLCSDW-240416;VLCSDW-240416;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

Page 1

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Inj Date : 16-APR-2024 16:46
InstruID : voa11.i
LabSampID : VLCSDW-240416

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

MASS
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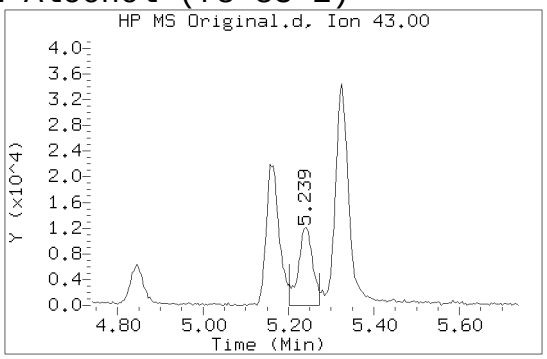
HEIGHT
12100
22-Apr-2024
09:42
salina
zaid



AFTER

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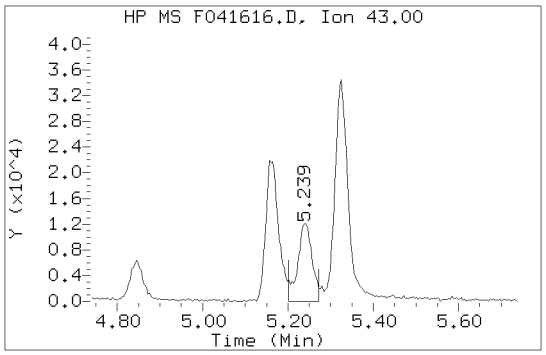

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13088
22-Apr-2024
09:42
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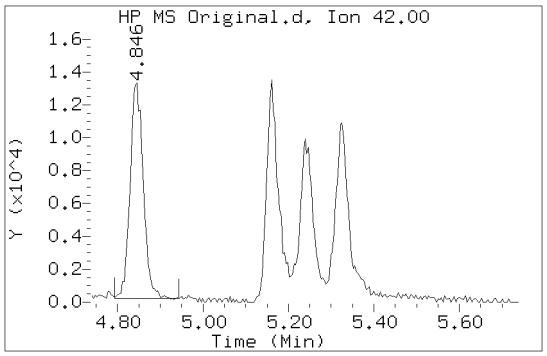

AFTER

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22-Apr-2024
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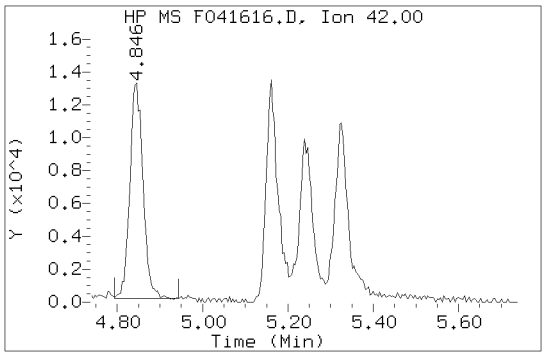

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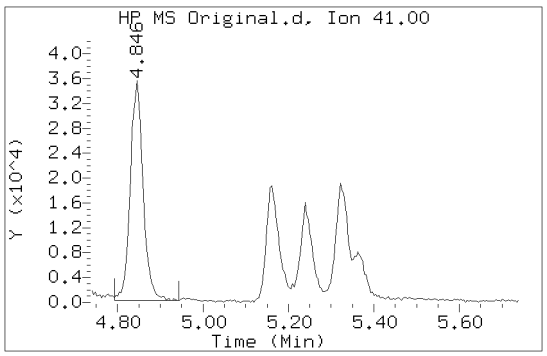

AFTER

MASS
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AREA
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HEIGHT
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22-Apr-2024
09:51
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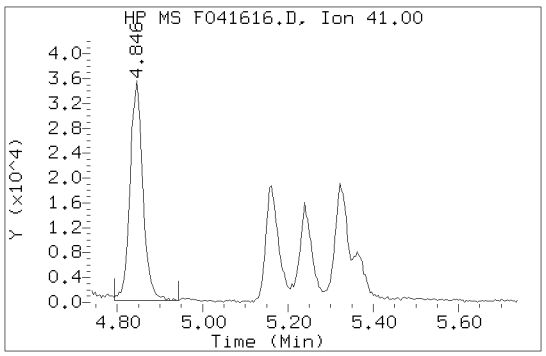

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Report Date: 22-Apr-2024 09:51

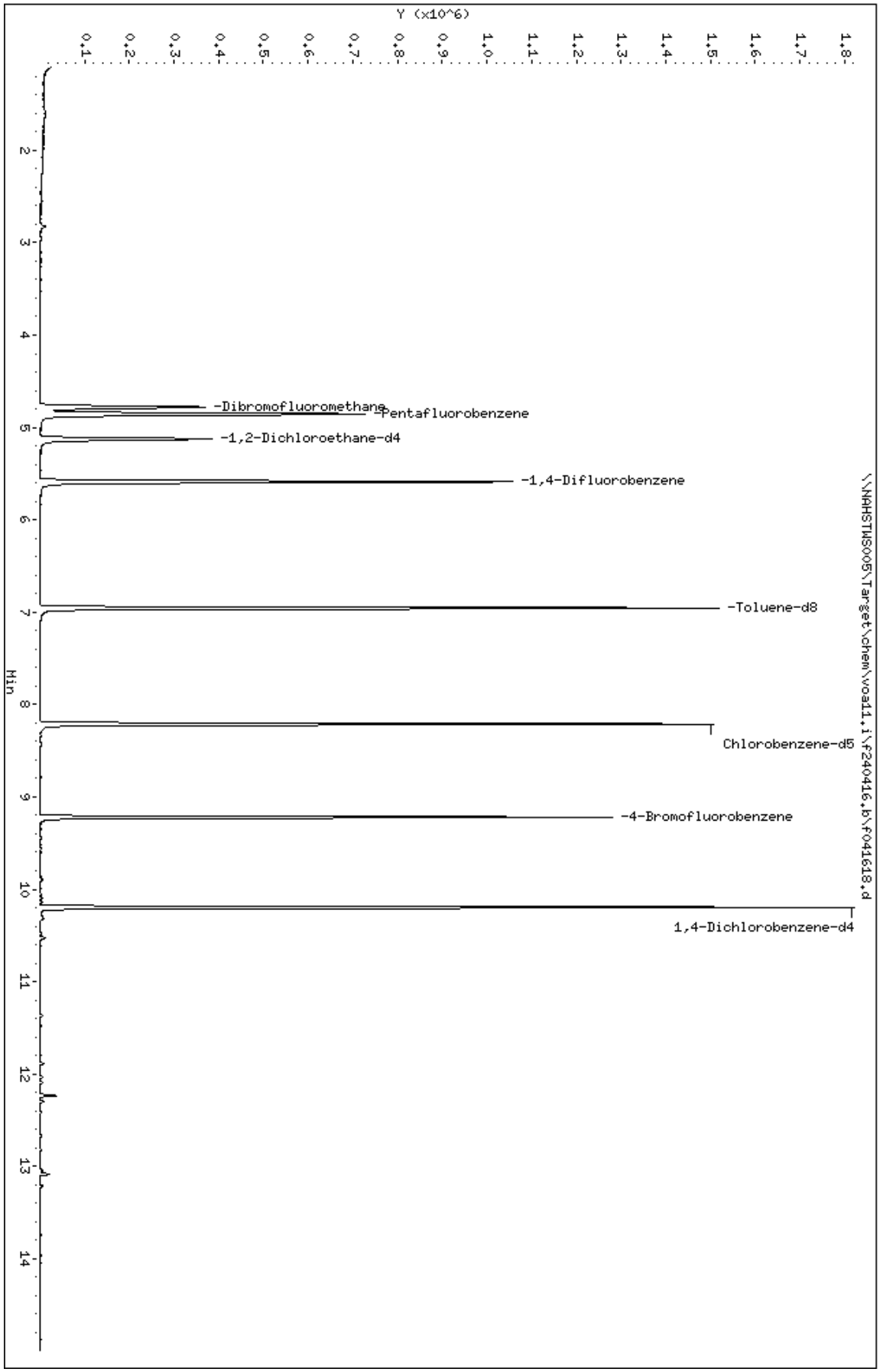
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041618.D
Lab Smp Id: VBLKW-240416 Client Smp ID: VBLKW-240416
Inj Date : 16-APR-2024 17:30
Operator : FT Inst ID: voa11.i
Smp Info : VBLKW-240416;VBLKW-240416;3;;BLANK
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:51 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 17 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.857	4.856	(1.000)	486943	50.0000	
$ 30 Dibromofluoromethane	113	4.778	4.781	(0.984)	221142	46.5604	46.56
$ 35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	284444	48.3096	48.30
* 36 1,4-Difluorobenzene	114	5.588	5.587	(1.000)	759762	50.0000	
* 47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	675289	50.0000	
$ 48 Toluene-d8	98	6.956	6.956	(0.847)	810233	50.6228	50.62
$ 69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	315263	49.6238	49.62
* 70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	403917	50.0000	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Client ID: VBLKW-240416
Sample Info: VBLKW-240416;VBLKW-240416;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
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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Inj Date : 16-APR-2024 17:30
InstruID : voa11.i
LabSampID : VBLKW-240416

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041619.D Page 1
Report Date: 22-Apr-2024 16:39

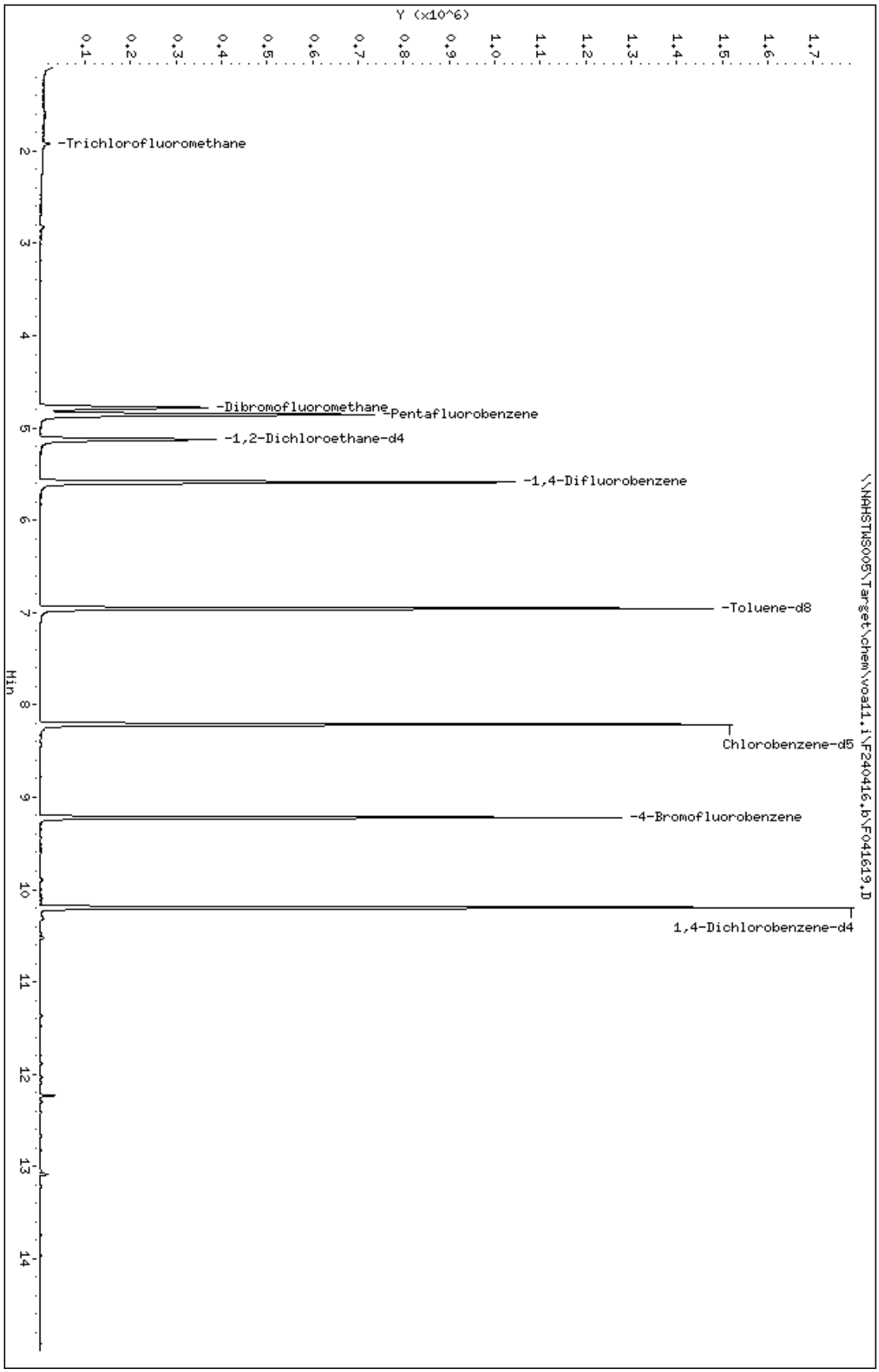
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041619.D
Lab Smp Id: HS24040371-02
Inj Date : 16-APR-2024 17:52
Operator : FT   Inst ID: voa11.i
Smp Info : HS24040371-02
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 16:38 salina.zai Quant Type: ISTD
Cal Date : 16-APR-2024 14:11   Cal File: F041609.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.856	4.856	(1.000)	480473	50.0000	
8 Trichlorofluoromethane	101	1.921	1.925	(0.396)	11867	1.45498	1.45
$ 30 Dibromofluoromethane	113	4.781	4.781	(0.985)	219035	46.7365	46.73
$ 35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	278684	47.9695	47.96
* 36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	754886	50.0000	
* 47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	689767	50.0000	
$ 48 Toluene-d8	98	6.956	6.956	(0.847)	795212	48.6719	48.67
$ 69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	316367	48.7551	48.75
* 70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	388060	50.0000	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Date : 16-APR-2024 17:52
Client ID:
Sample Info: HS24040371-02
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^6)
Min
-Trichlorofluoromethane
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041619.D

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041619.D Page 2

Date : 16-APR-2024 17:52

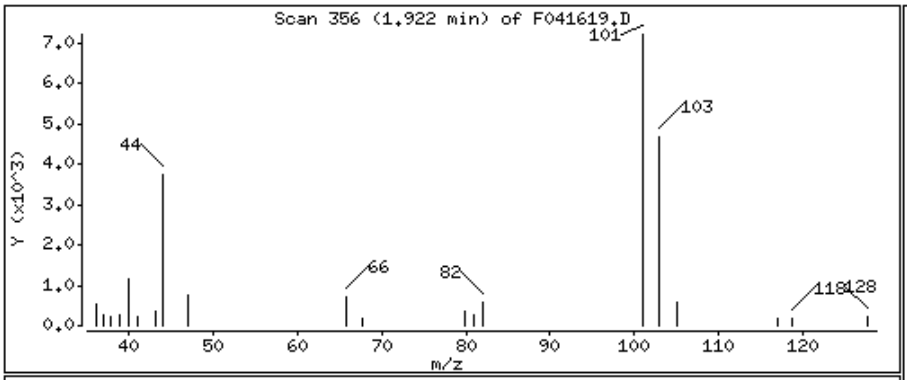
Client ID: Instrument: voa11.i

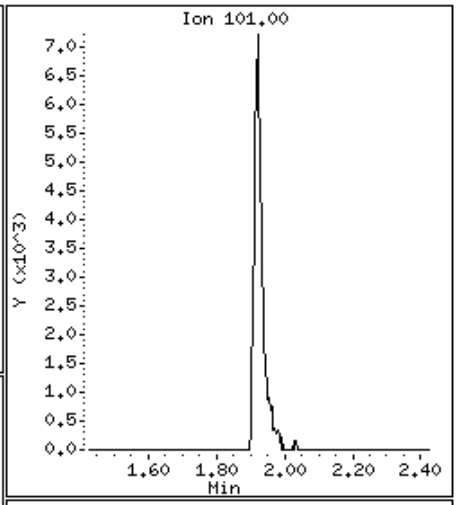
Sample Info: HS24040371-02

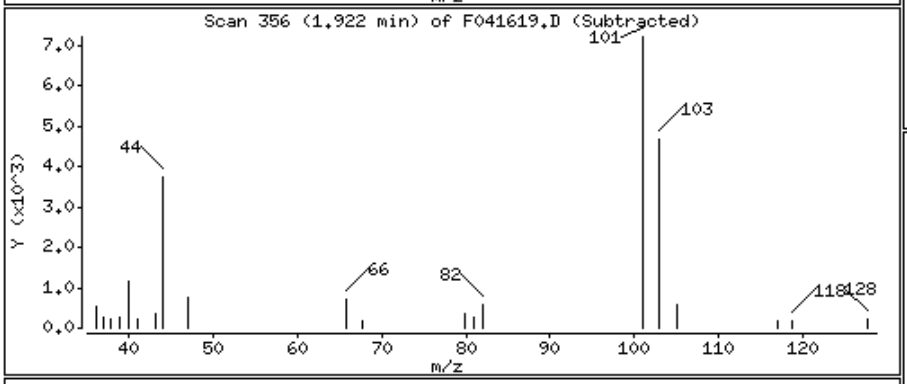
Purge Volume: 5.0 Operator: FT

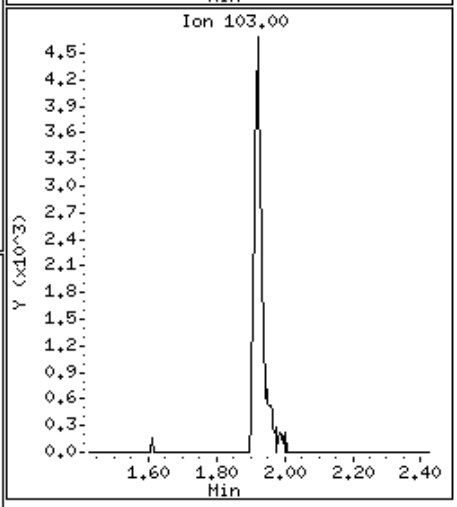
Column phase: DB624 Column diameter: 0.18

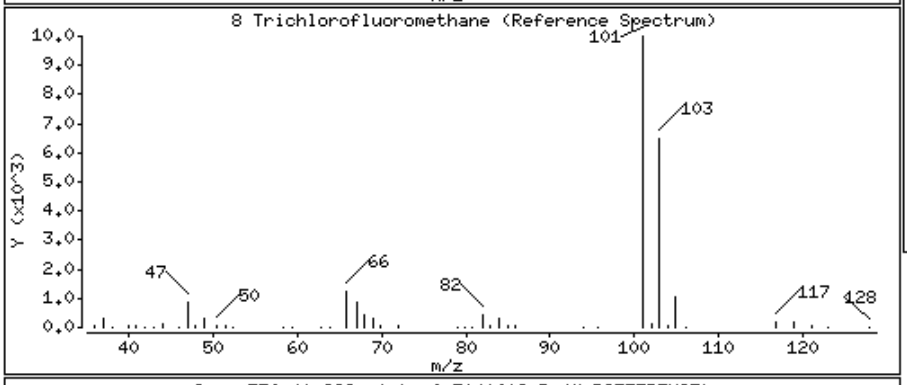
8 Trichlorofluoromethane Concentration: 1.45 ug/l

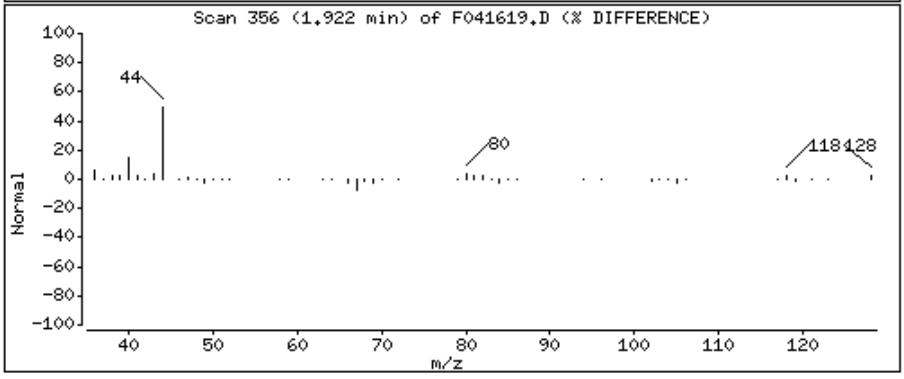












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Inj Date : 16-APR-2024 17:52
InstruID : voa11.i
LabSampID : HS24040371-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041620.D Page 1
Report Date: 22-Apr-2024 16:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041620.D
Lab Smp Id: HS24040371-01
Inj Date : 16-APR-2024 18:14
Operator : FT   Inst ID: voa11.i
Smp Info : HS24040371-01
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 16:38 salina.zai Quant Type: ISTD
Cal Date : 16-APR-2024 14:11   Cal File: F041609.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.856	4.856	(1.000)	479624	50.0000	
	27 cis-1,2-Dichloroethene	96	4.242	4.238	(0.873)	6636	1.39358	1.39
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	218561	46.7181	46.71
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	281896	48.6068	48.60
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	746003	50.0000	
	38 Trichloroethene	130	5.827	5.827	(1.043)	1239	0.22707	0.22(a)
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	701494	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	799562	48.1280	48.12
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	341928	51.8035	51.80
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	378365	50.0000	
	142 Tetrahydrofuran	42	4.583	4.568	(0.944)	2577	4.43035	4.43
M	94 1,2-Dichloroethylene (total)	96				6636	1.39358	1.39(a)

QC Flag Legend

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

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041620.D

Date : 16-APR-2024 18:14

Client ID:

Instrument: voa11.i

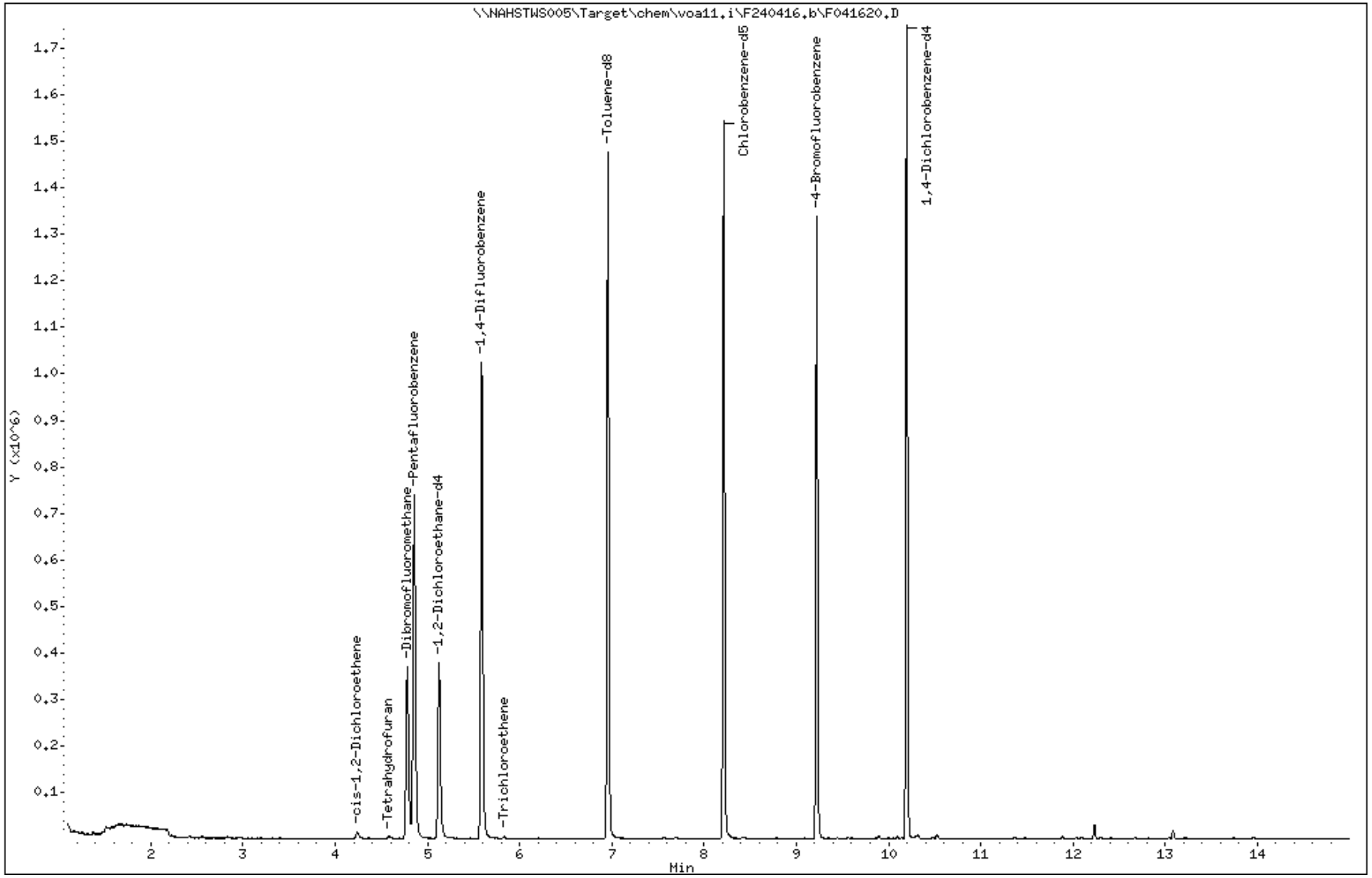
Sample Info: HS24040371-01

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041620.D Page 2

Date : 16-APR-2024 18:14

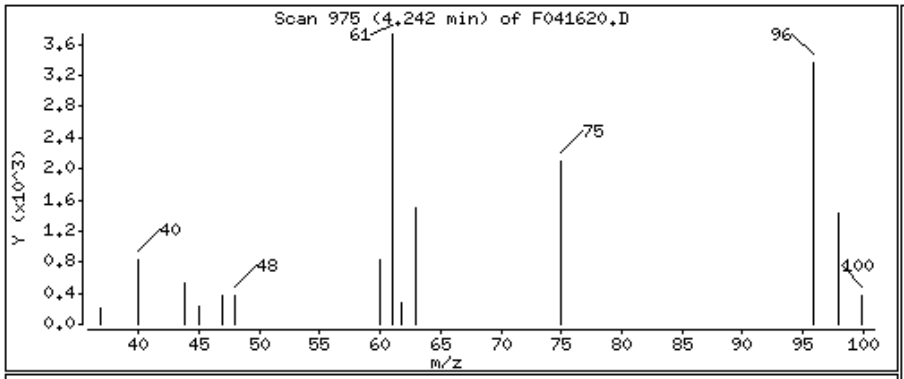
Client ID: Instrument: voa11.i

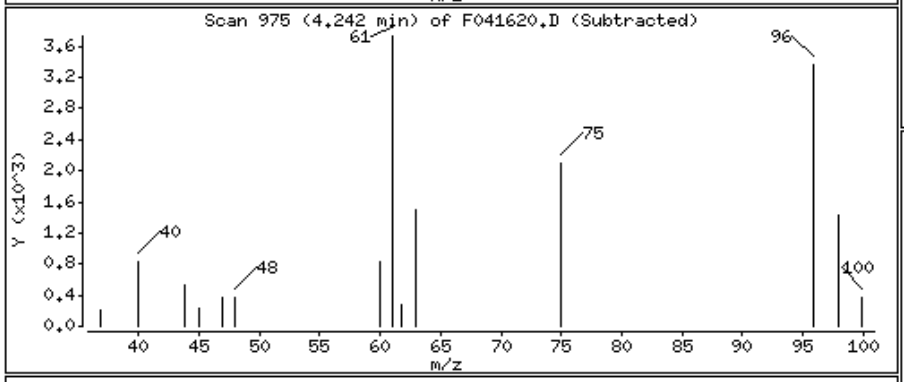
Sample Info: HS24040371-01

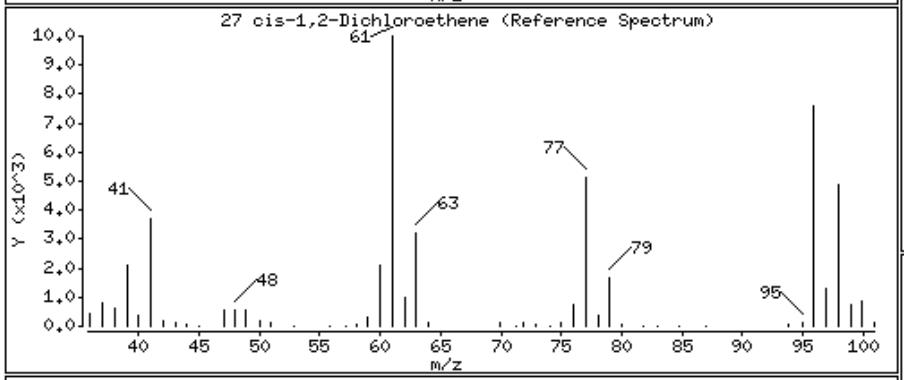
Purge Volume: 5.0 Operator: FT

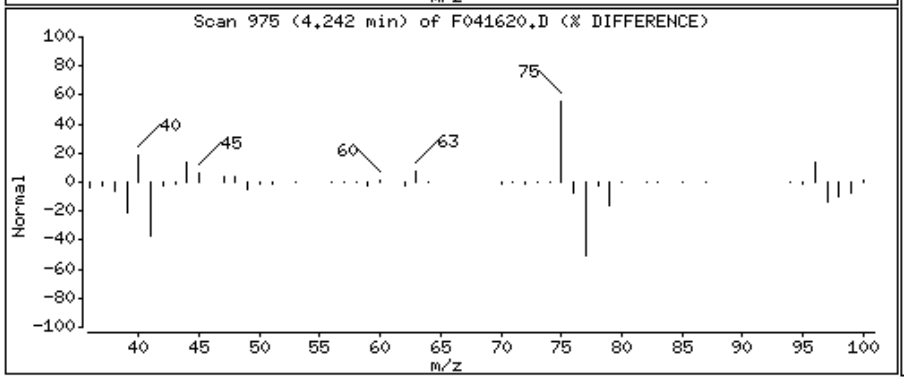
Column phase: DB624 Column diameter: 0.18

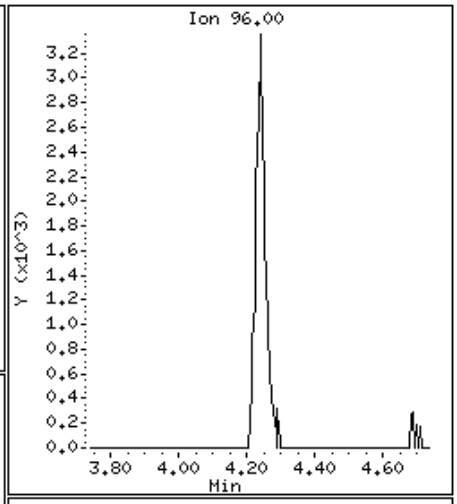
27 cis-1,2-Dichloroethene Concentration: 1.39 ug/l

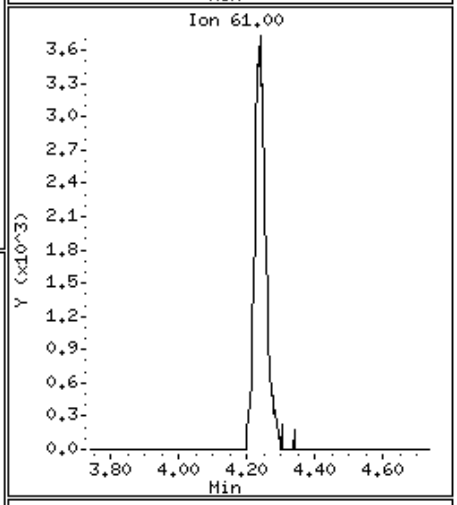


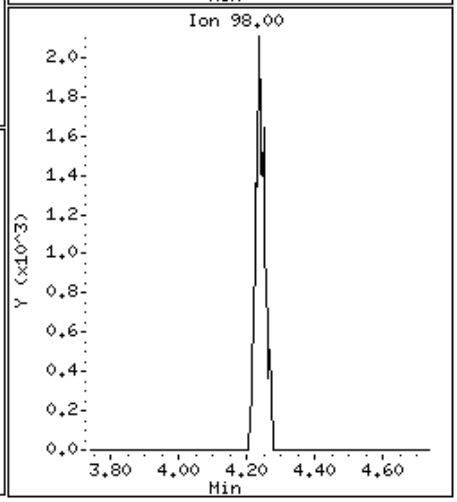












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041620.D Page 3

Date : 16-APR-2024 18:14

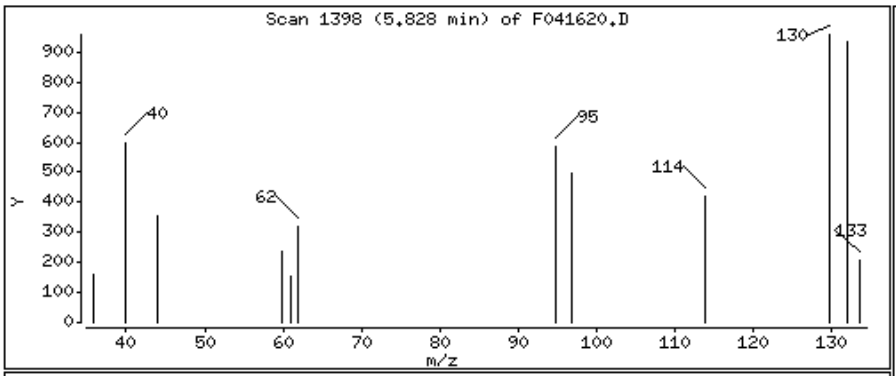
Client ID: Instrument: voa11.i

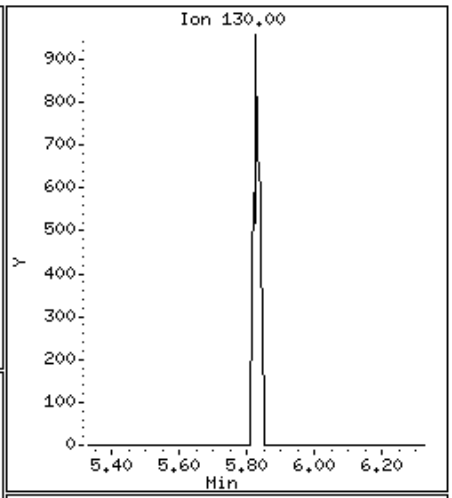
Sample Info: HS24040371-01

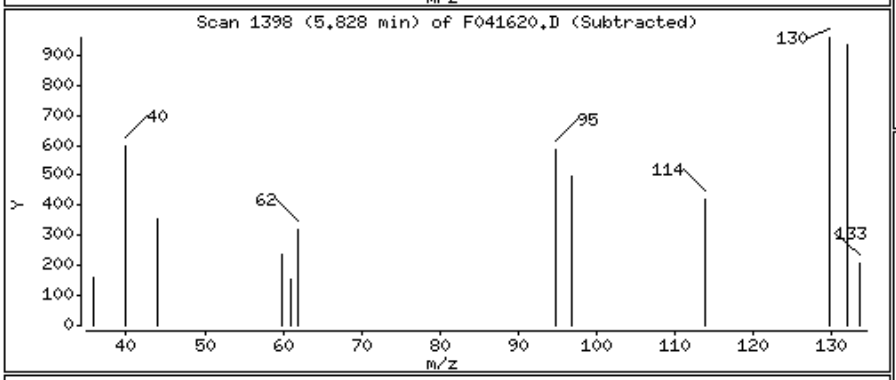
Purge Volume: 5.0 Operator: FT

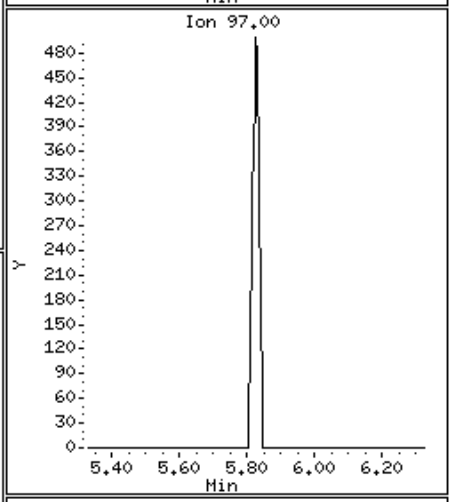
Column phase: DB624 Column diameter: 0.18

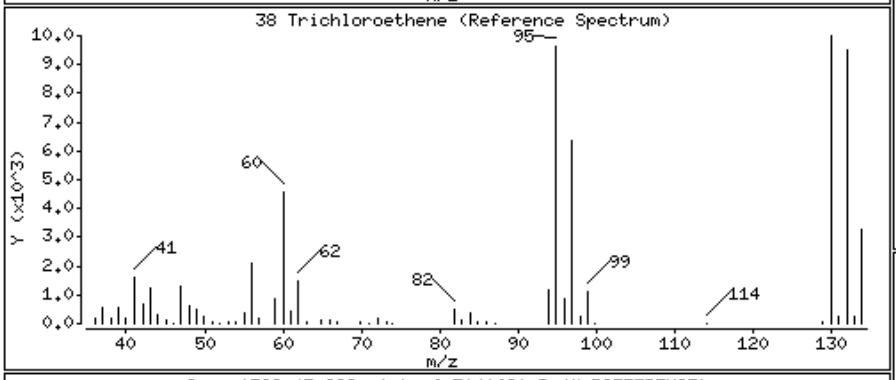
38 Trichloroethene Concentration: 0.22 ug/l

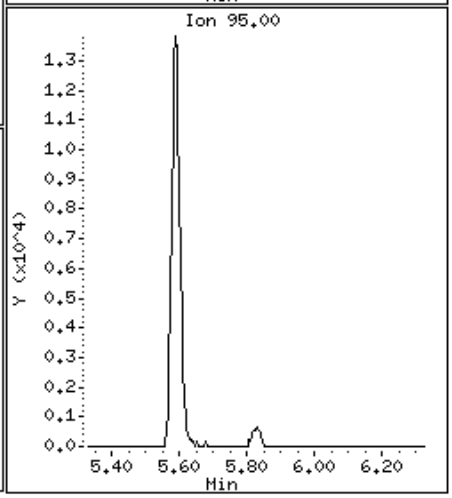


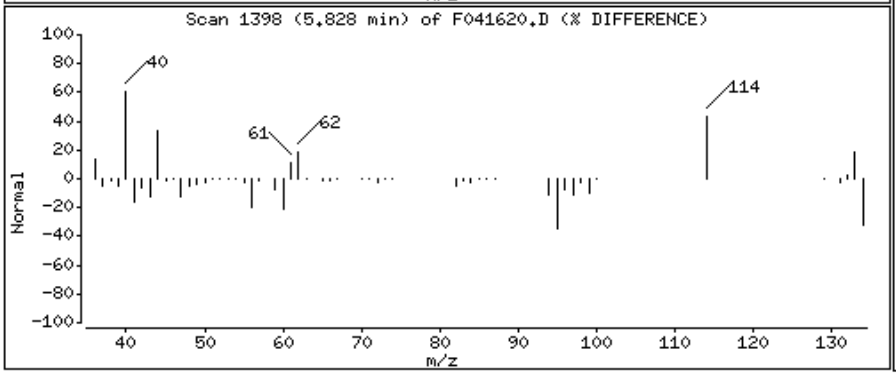












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041620.D Page 4

Date : 16-APR-2024 18:14

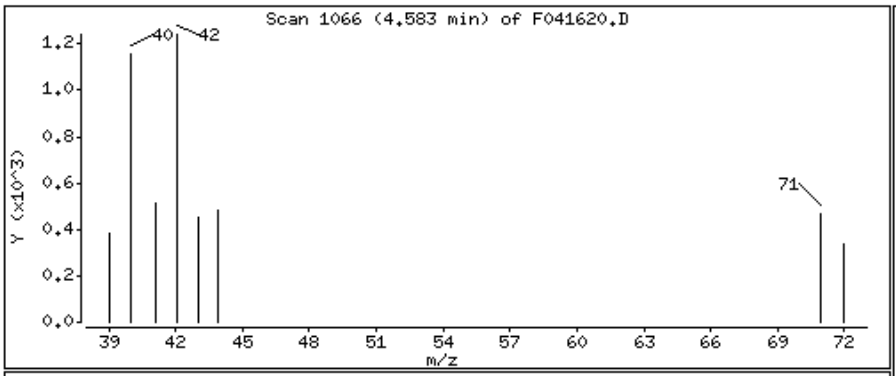
Client ID: Instrument: voa11.i

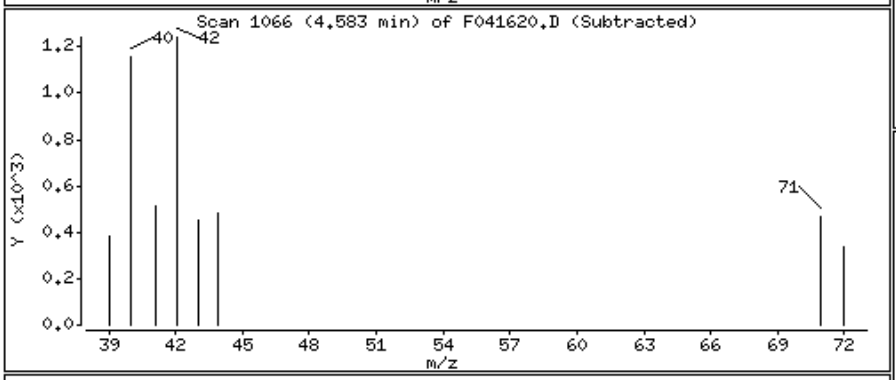
Sample Info: HS24040371-01

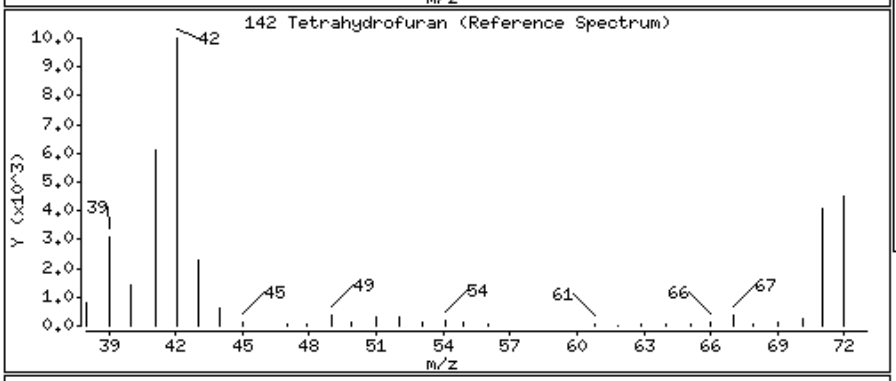
Purge Volume: 5.0 Operator: FT

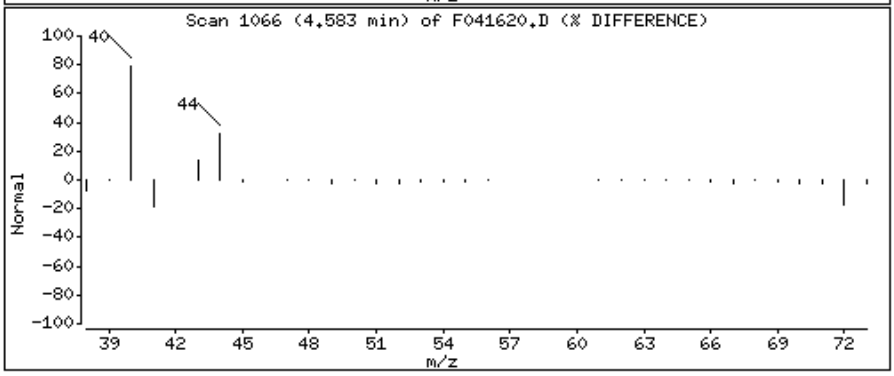
Column phase: DB624 Column diameter: 0.18

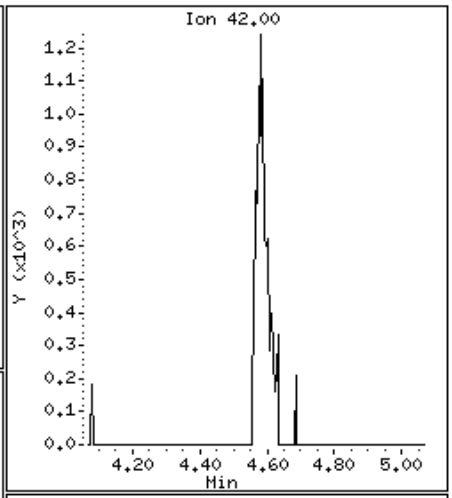
142 Tetrahydrofuran Concentration: 4.43 ug/l

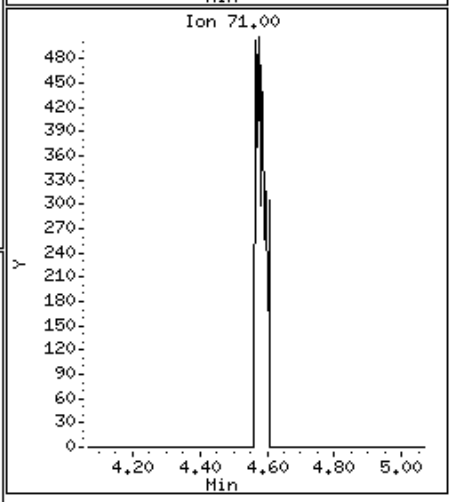












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InstruID : voa11.i
LabSampID : HS24040371-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041622.D Page 1
Report Date: 22-Apr-2024 16:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041622.D
Lab Smp Id: HS24040371-02
Inj Date : 16-APR-2024 18:58
Operator : FT   Inst ID: voa11.i
Smp Info : HS24040371-02
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 16:38 salina.zai Quant Type: ISTD
Cal Date : 16-APR-2024 14:11   Cal File: F041609.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.856	4.856	(1.000)	437491	50.0000	
	8 Trichlorofluoromethane	101	1.921	1.925	(0.396)	12507	1.68411	1.68
$	30 Dibromofluoromethane	113	4.778	4.781	(0.984)	215878	50.5616	50.56
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	271639	51.3424	51.34
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	705138	50.0000	
*	47 Chlorobenzene-d5	117	8.211	8.215	(1.000)	647766	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	776023	50.5468	50.54
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	317651	52.1162	52.11
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	343486	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041622.D

Date : 16-APR-2024 18:58

Client ID:

Instrument: voa11.i

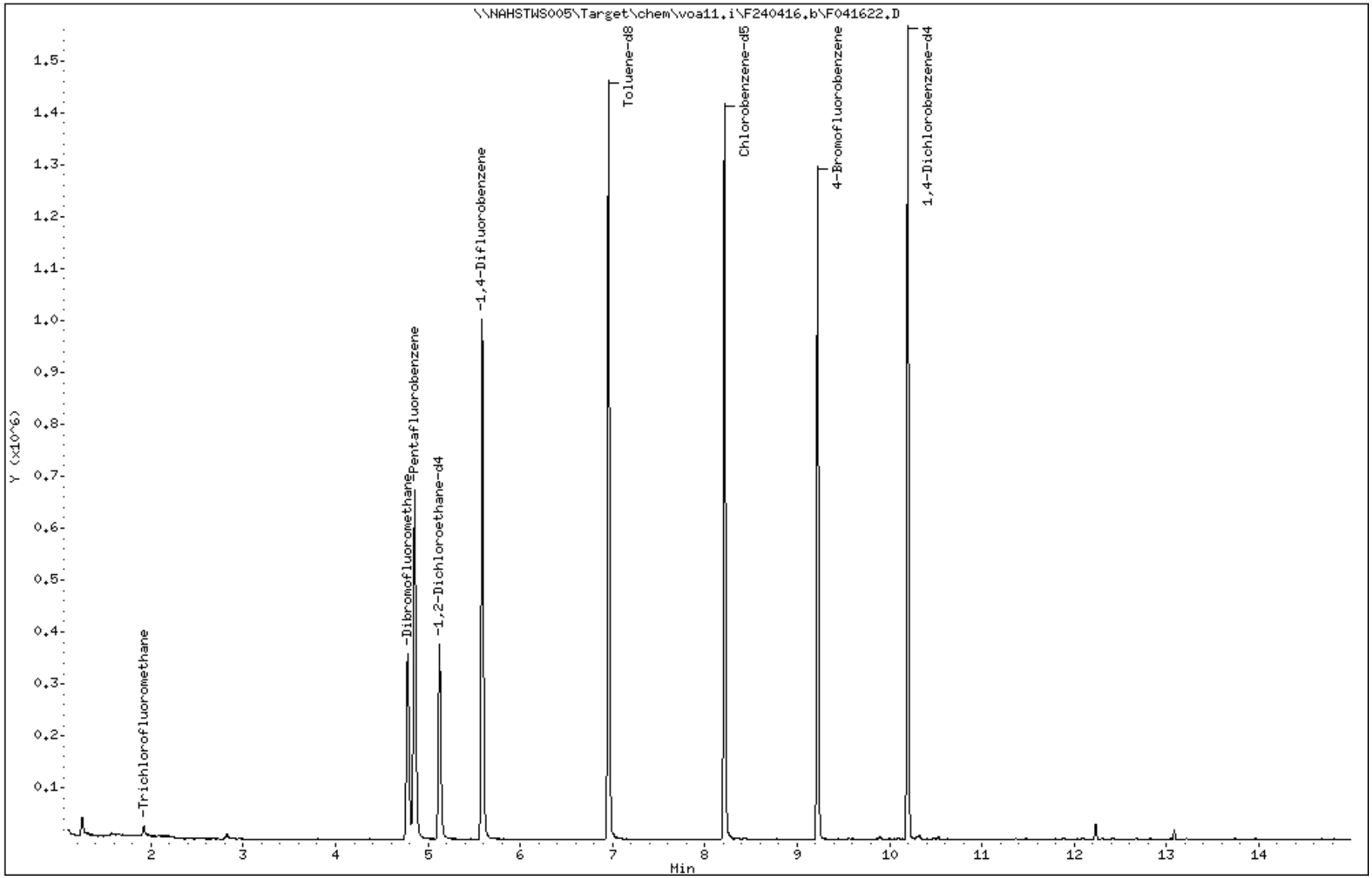
Sample Info: HS24040371-02

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041622.D Page 2

Date : 16-APR-2024 18:58

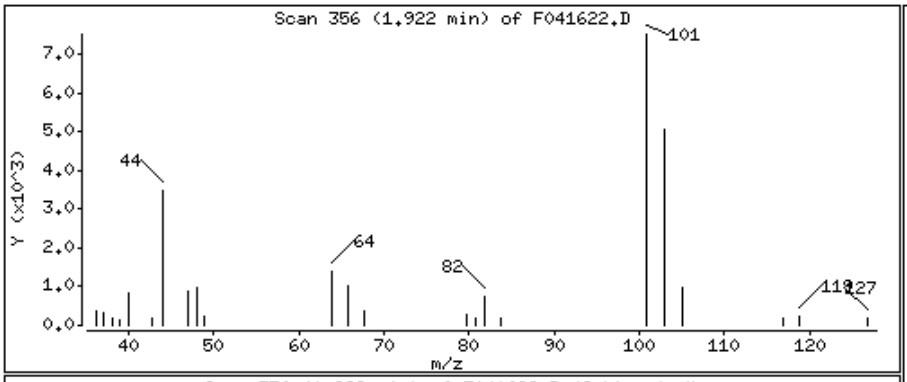
Client ID: Instrument: voa11.i

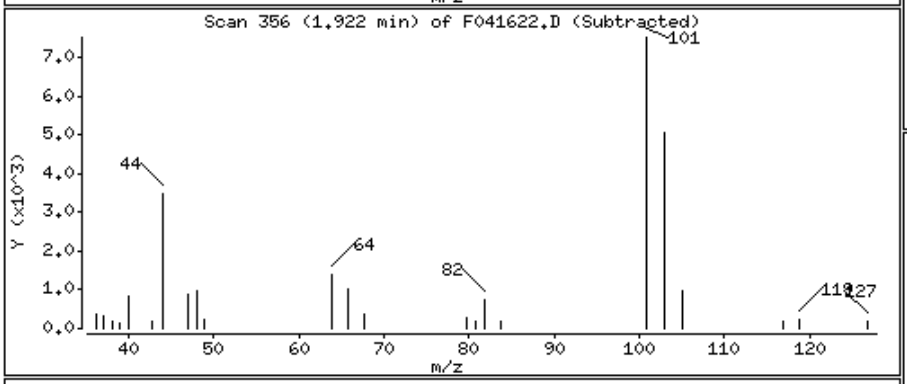
Sample Info: HS24040371-02

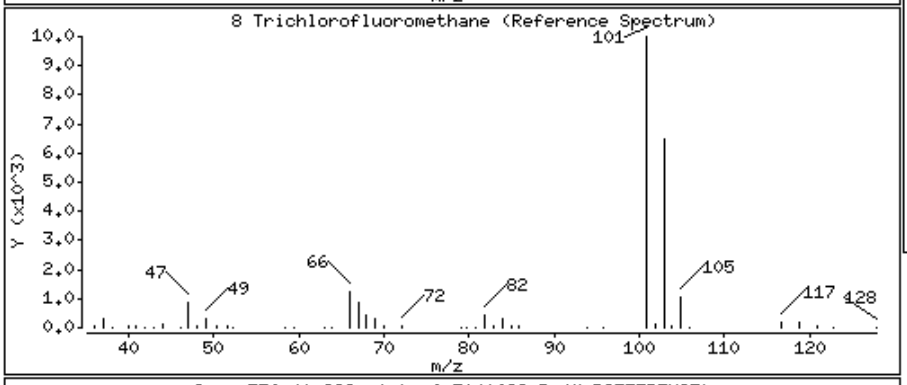
Purge Volume: 5.0 Operator: FT

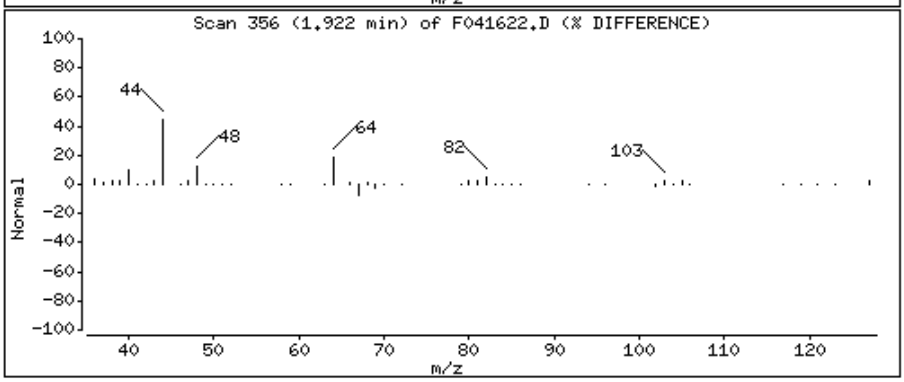
Column phase: DB624 Column diameter: 0.18

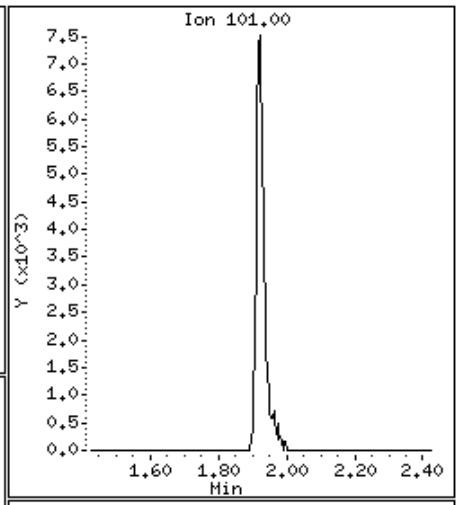
8 Trichlorofluoromethane Concentration: 1.68 ug/l

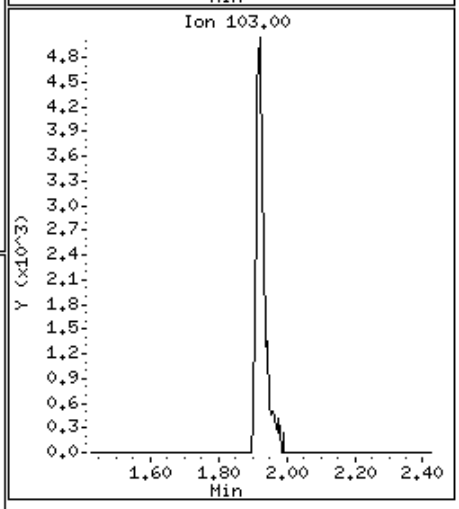












Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041622.D
Inj Date : 16-APR-2024 18:58
InstruID : voa11.i
LabSampID : HS24040371-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041632.D Page 1
Report Date: 22-Apr-2024 09:43

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Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041632.D
Lab Smp Id: HS24040905-04MS Client Smp ID: HS24040905-04MS
Inj Date : 16-APR-2024 22:39
Operator : FT Inst ID: voa11.i
Smp Info : HS24040905-04MS;HS24040905-04MS;3;;MS
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:43 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 31 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.860	4.856	(1.000)	523400	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.241)	127490	22.2288	22.22
3 Chloromethane	50	1.306	1.306	(0.269)	185875	18.3990	18.39
4 Propionitrile	54	4.339	4.339	(0.893)	269123	203.274	203.27
5 Vinyl Chloride	62	1.389	1.389	(0.286)	121751	21.8173	21.81
6 Bromomethane	94	1.629	1.632	(0.335)	67515	20.2933	20.29
7 Chloroethane	64	1.715	1.715	(0.353)	87770	24.4774	24.47
8 Trichlorofluoromethane	101	1.921	1.925	(0.395)	193059	21.7291	21.72
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	186912	21.2726	21.27
9 Acrolein	56	2.281	2.281	(0.469)	29714	64.8686	64.86
10 Acetone	43	2.423	2.423	(0.499)	58125	41.7144	41.71
11 1,1-Dichloroethene	96	2.367	2.363	(0.487)	99442	22.4642	22.46
12 Isobutyl Alcohol	43	5.280	5.239	(1.086)	399455	3672.92	3672.91
13 Acetonitrile	39	2.705	2.705	(0.557)	113152	187.038	187.03
14 Allyl Chloride	41	2.705	2.701	(0.557)	229054	19.3301	19.33
15 Iodomethane	142	2.495	2.495	(0.513)	115762	46.2959	46.29
16 Acrylonitrile	53	3.076	3.076	(0.633)	71865	37.9776	37.97
17 Methylene Chloride	84	2.824	2.825	(0.581)	108856	18.8006	18.80
18 Methyl tert-butyl ether	73	3.113	3.113	(0.641)	212006	18.8948	18.89
19 Carbon Disulfide	76	2.555	2.555	(0.526)	553580	41.1139	41.11

20	trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	101912	20.9763	20.97
21	Vinyl Acetate	43	3.657	3.642 (0.752)	295537	34.6362	34.63

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041632.D Page 2
Report Date: 22-Apr-2024 09:43

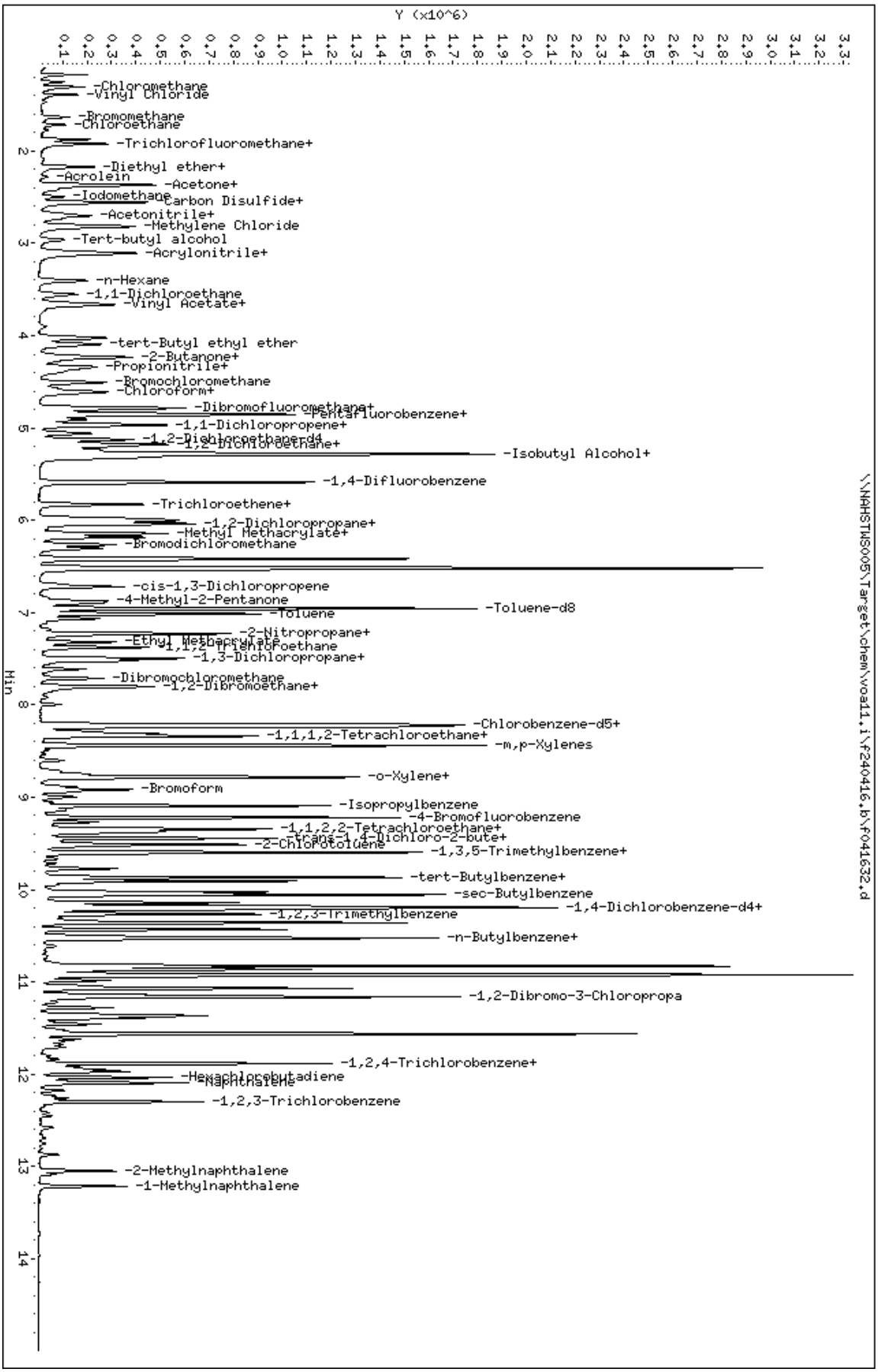
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.555	3.556	(0.732)	174310	21.2219	21.22
24	2-Butanone	43	4.279	4.275	(0.880)	66745	37.6412	37.64
25	Methacrylonitrile	41	4.227	4.230	(0.870)	99044	25.4452	25.44
26	2,2-Dichloropropane	77	4.230	4.230	(0.870)	95743	18.3090	18.30
27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.872)	113431	21.8286	21.82
28	Chloroform	83	4.605	4.609	(0.948)	207591	21.8936	21.89
29	Bromochloromethane	128	4.504	4.504	(0.927)	57513	20.0114	20.01
$ 30	Dibromofluoromethane	113	4.781	4.781	(0.984)	239398	46.8909	46.89
31	1,1,1-Trichloroethane	97	4.789	4.789	(0.985)	169630	22.6602	22.66
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	147348	22.9589	22.95
33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	173709	20.5146	20.51
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	142768	21.0556	21.05
$ 35	1,2-Dichloroethane-d4	65	5.130	5.126	(1.056)	284401	44.9460	44.94
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	813115	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	412106	20.6902	20.69
38	Trichloroethene	130	5.827	5.827	(1.043)	119085	20.0229	20.02
39	Bromodichloromethane	83	6.303	6.303	(1.128)	142958	20.9929	20.99
40	Methyl Methacrylate	41	6.183	6.180	(1.272)	159184	20.2488	20.24
42	1,2-Dichloropropane	63	6.037	6.037	(1.081)	115475	22.5831	22.58
43	2-Nitropropane	43	7.229	7.229	(1.487)	114742	20.9480	20.94
44	Dibromomethane	93	6.146	6.146	(1.100)	80052	21.5554	21.55
45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	170774	46.1794	46.17
46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	139648	18.1876	18.18
* 47	Chlorobenzene-d5	117	8.211	8.215	(1.000)	752479	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	991285	55.4841	55.48
49	Ethyl Methacrylate	69	7.319	7.316	(1.310)	127206	19.2470	19.24
50	Toluene	91	7.016	7.016	(0.854)	500587	22.9683	22.96
51	trans-1,3-Dichloropropene	75	7.222	7.218	(1.293)	118875	18.5267	18.52
52	2-Hexanone	43	7.229	7.229	(0.880)	114742	40.7483	40.74
53	1,1,2-Trichloroethane	83	7.379	7.375	(0.899)	94127	21.9019	21.90
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	187658	21.9407	21.94
55	Dibromochloromethane	129	7.717	7.717	(0.940)	98817	18.0246	18.02
56	Tetrachloroethene	164	7.495	7.495	(0.913)	112466	22.2742	22.27
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	111863	19.9994	19.99
58	1-Chlorohexane	55	8.226	8.230	(1.472)	97521	19.6301	19.63
59	Chlorobenzene	112	8.238	8.238	(1.003)	549830	34.2901	34.29
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	100595	19.9068	19.90
61	Ethylbenzene	106	8.339	8.339	(1.016)	156678	22.1746	22.17
62	m,p-Xylenes	106	8.440	8.440	(1.028)	388161	40.3831	40.38
63	o-Xylene	106	8.777	8.778	(1.069)	197043	21.6129	21.61
64	Styrene	104	8.789	8.789	(1.070)	312959	20.0870	20.08
66	Bromoform	173	8.942	8.942	(1.089)	47912	16.5451	16.54
67	Isopropylbenzene	105	9.096	9.092	(1.108)	627034	26.6874	26.68
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	139160	19.5153	19.51
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	365960	51.6881	51.68
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	425725	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	117751	18.4719	18.47
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	22511	18.0711	18.07
73	n-Propylbenzene	91	9.445	9.445	(0.926)	590151	21.4562	21.45
74	Bromobenzene	156	9.343	9.344	(0.916)	133546	19.8816	19.88
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	434459	20.3387	20.33
76	2-Chlorotoluene	91	9.512	9.512	(0.933)	355414	20.9209	20.92

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	422525	20.3241	20.32
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	553622	29.8486	29.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	428398	20.6769	20.67
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	888143	33.9045	33.90
82	p-Isopropyltoluene	119	10.179	10.180	(0.998)	468207	20.6988	20.69
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	257511	21.5049	21.50
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	270163	19.7163	19.71
87	n-Butylbenzene	91	10.524	10.524	(1.032)	407151	21.3356	21.33
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	258652	21.1220	21.12
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	14739	17.7278	17.72
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	173521	23.7687	23.76
91	Hexachlorobutadiene	225	12.039	12.035	(1.180)	81721	20.0038	20.00
92	Naphthalene	128	12.095	12.095	(1.186)	381040	22.2893	22.28
93	1,2,3-Trichlorobenzene	180	12.297	12.298	(1.206)	164857	22.4646	22.46
146	Methyl acetate	43	2.735	2.735	(0.563)	66975	12.9583	12.95
138	Freon TF	101	2.371	2.371	(0.488)	117188	21.9794	21.97
139	Diethyl ether	59	2.168	2.172	(0.446)	127935	20.6558	20.65
141	Cyclohexane	56	4.845	4.841	(0.997)	159390	21.9178	21.91
147	Methylcyclohexane	55	5.996	6.003	(1.073)	330823	53.3861	53.38
132	n-Butanol	56	5.816	5.820	(1.197)	23767	343.398	343.39
131	Methyl Acrylate	55	4.395	4.395	(0.904)	87195	19.3847	19.38
133	Ethyl Acrylate	55	5.996	5.966	(1.234)	330823	52.3407	52.34
135	1,4-Dioxane	88	6.187	6.183	(1.273)	21589	414.882	414.88(A)
136	n-Hexane	57	3.406	3.406	(0.701)	99874	19.5239	19.52
142	Tetrahydrofuran	42	4.568	4.568	(0.940)	52028	43.2501	43.25
148	Tert-butyl alcohol	59	2.959	2.963	(0.609)	88659	366.552	366.55
149	Isopropyl alcohol	45	2.562	2.562	(0.527)	64417	337.213	337.21
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	231164	360.414	360.41
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	396937	20.7976	20.79
167	Ethanol	45	2.090	2.086	(0.430)	18951	427.705	427.70
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	173521	23.7687	23.76
172	tert-Butyl formate	59	5.239	5.239	(1.078)	58153	37.1823	37.18
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	122519	390.194	390.19
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	195613	19.6382	19.63
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	218578	19.7647	19.76
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	118727	22.0715	22.07
156	Diisopropyl ether	45	3.668	3.664	(0.755)	282718	20.1563	20.15
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	134357	23.6255	23.62
130	Ethyl Acetate	43	4.365	4.365	(0.898)	145839	17.5839	17.58
176	tert-Amyl alcohol	59	5.239	5.239	(1.078)	58153	373.817	373.81(A)
M 94	1,2-Dichloroethylene (total)	96				215343	42.8049	42.80
M 95	Xylenes (total)	106				585204	61.9960	61.99

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041632.d
Date : 16-APR-2024 22:39
Client ID: HS24040905-04HS
Sample Info: HS24040905-04HS;HS24040905-04HS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa11.i\f240416.b\f041632.d
Inj Date : 16-APR-2024 22:39
InstruID : voa11.i
LabSampID : HS24040905-04MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041633.D Page 1
Report Date: 22-Apr-2024 09:43

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Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041633.D
Lab Smp Id: HS24040905-04MSD Client Smp ID: HS24040905-04MSD
Inj Date : 16-APR-2024 23:02
Operator : FT Inst ID: voa11.i
Smp Info : HS24040905-04MSD;HS24040905-04MSD;3;;MSD
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:43 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 31 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.856	4.856	(1.000)	588667	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.241)	123727	19.1809	19.18
3 Chloromethane	50	1.306	1.306	(0.269)	184815	16.2658	16.26
4 Propionitrile	54	4.339	4.339	(0.893)	328313	220.487	220.48
5 Vinyl Chloride	62	1.389	1.389	(0.286)	116107	18.4991	18.49
6 Bromomethane	94	1.629	1.632	(0.335)	62303	16.4122	16.41
7 Chloroethane	64	1.715	1.715	(0.353)	80656	19.9996	19.99
8 Trichlorofluoromethane	101	1.921	1.925	(0.396)	183216	18.3349	18.33
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	180876	18.3033	18.30
9 Acrolein	56	2.277	2.281	(0.469)	29592	58.0205	58.02
10 Acetone	43	2.420	2.423	(0.498)	63635	40.7058	40.70
11 1,1-Dichloroethene	96	2.364	2.363	(0.487)	92291	18.5372	18.53
12 Isobutyl Alcohol	43	5.284	5.239	(1.088)	398182	3428.30	3428.30
13 Acetonitrile	39	2.705	2.705	(0.557)	116831	172.614	172.61
14 Allyl Chloride	41	2.701	2.701	(0.556)	235907	17.8891	17.88
15 Iodomethane	142	2.495	2.495	(0.514)	104398	39.5564	39.55
16 Acrylonitrile	53	3.080	3.076	(0.634)	75056	35.5616	35.56
17 Methylene Chloride	84	2.825	2.825	(0.582)	106550	16.3270	16.32
18 Methyl tert-butyl ether	73	3.117	3.113	(0.642)	223915	17.9479	17.94
19 Carbon Disulfide	76	2.555	2.555	(0.526)	516672	34.1183	34.11

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	96759	17.7076	17.70
21 Vinyl Acetate	43	3.661	3.642 (0.754)	311465	32.7185	32.71

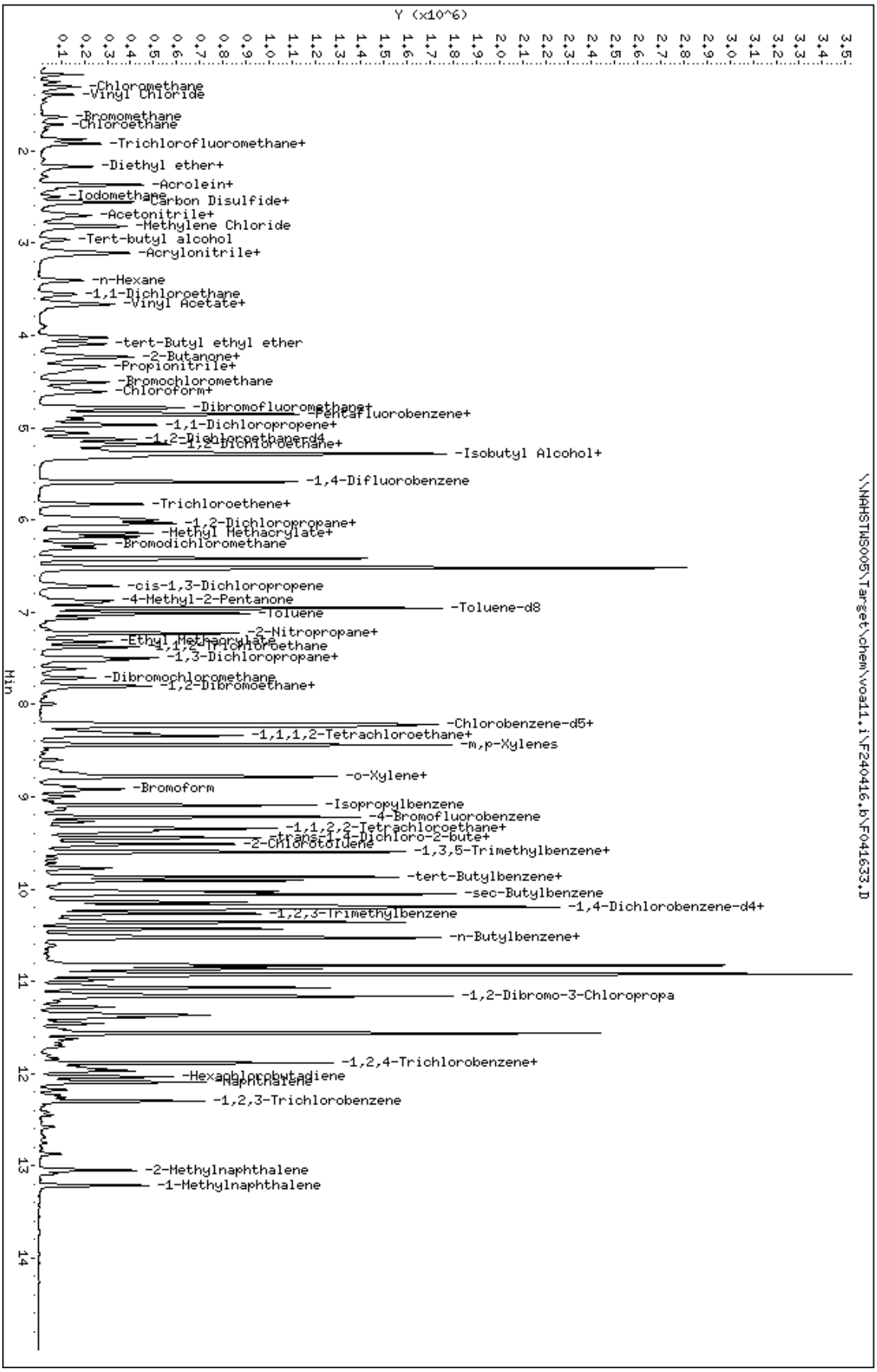
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.552	3.556	(0.731)	177435	19.2073	19.20
	24 2-Butanone	43	4.279	4.275	(0.881)	72077	36.3684	36.36
	25 Methacrylonitrile	41	4.234	4.230	(0.872)	105614	24.1247	24.12
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	105193	17.9595	17.95
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	126243	21.6006	21.60
	28 Chloroform	83	4.609	4.609	(0.949)	209039	19.6020	19.60
	29 Bromochloromethane	128	4.504	4.504	(0.927)	62821	19.4348	19.43
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	263587	45.9114	45.91
	31 1,1,1-Trichloroethane	97	4.793	4.789	(0.987)	176498	20.9636	20.96
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	143018	22.3382	22.33
	33 1,2-Dichloroethane	62	5.201	5.205	(0.931)	173612	20.5529	20.55
	34 Carbon Tetrachloride	117	4.961	4.965	(0.888)	140063	20.7067	20.70
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	303900	42.7085	42.70
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	811150	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	427886	21.5345	21.53
	38 Trichloroethene	130	5.827	5.827	(1.043)	127123	21.4262	21.42
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	132104	19.4460	19.44
	40 Methyl Methacrylate	41	6.180	6.180	(1.272)	158289	18.2602	18.26
	42 1,2-Dichloropropane	63	6.037	6.037	(1.081)	102765	20.1461	20.14
	43 2-Nitropropane	43	7.229	7.229	(1.489)	126141	20.4758	20.47
	44 Dibromomethane	93	6.146	6.146	(1.100)	75251	20.3117	20.31
	45 4-Methyl-2-Pentanone	43	6.877	6.873	(0.837)	189649	52.0641	52.06
	46 cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	141157	18.3910	18.39
*	47 Chlorobenzene-d5	117	8.211	8.215	(1.000)	736223	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	965266	55.2262	55.22
	49 Ethyl Methacrylate	69	7.316	7.316	(1.309)	132790	20.0563	20.05
	50 Toluene	91	7.012	7.016	(0.854)	476480	22.3644	22.36
	51 trans-1,3-Dichloropropene	75	7.222	7.218	(1.292)	118968	18.5796	18.57
	52 2-Hexanone	43	7.229	7.229	(0.880)	126141	45.7856	45.78
	53 1,1,2-Trichloroethane	83	7.376	7.375	(0.898)	90988	21.6390	21.63
	54 1,3-Dichloropropane	76	7.518	7.522	(0.916)	172193	20.5771	20.57
	55 Dibromochloromethane	129	7.717	7.717	(0.940)	90067	16.9999	16.99
	56 Tetrachloroethene	164	7.495	7.495	(0.913)	97060	19.6474	19.64
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	104117	19.0868	19.08
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	94889	19.1401	19.14
	59 Chlorobenzene	112	8.238	8.238	(1.003)	529223	33.7337	33.73
	60 1,1,1,2-Tetrachloroethane	131	8.309	8.313	(1.012)	98100	19.8417	19.84
	61 Ethylbenzene	106	8.339	8.339	(1.016)	152317	22.0334	22.03
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	377634	40.1570	40.15
	63 o-Xylene	106	8.774	8.778	(1.068)	189972	21.3154	21.31
	64 Styrene	104	8.789	8.789	(1.070)	304971	20.0106	20.01
	66 Bromoform	173	8.939	8.942	(1.089)	50784	17.8482	17.84
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	622012	27.0416	27.04
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	149508	18.9882	18.98
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	349997	50.5285	50.52
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	470079	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	124806	17.7313	17.73
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	21126	17.3740	17.37
	73 n-Propylbenzene	91	9.441	9.445	(0.926)	588301	19.5064	19.50
	74 Bromobenzene	156	9.344	9.344	(0.916)	140290	19.0050	19.00
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	446936	19.0512	19.05
	76 2-Chlorotoluene	91	9.509	9.512	(0.932)	355828	19.0910	19.09

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	434413	18.9845	18.98
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	581202	28.4821	28.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	476403	20.8122	20.81
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	971541	33.6070	33.60
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	520370	20.8216	20.82
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	287722	21.7607	21.76
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	301339	19.9165	19.91
87	n-Butylbenzene	91	10.524	10.524	(1.032)	444703	21.1286	21.12
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	286575	21.1941	21.19
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	17673	19.1342	19.13
90	1,2,4-Trichlorobenzene	180	11.885	11.889	(1.165)	191203	23.7208	23.72
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	87668	19.4347	19.43
92	Naphthalene	128	12.095	12.095	(1.186)	461110	24.2689	24.26
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	171342	21.1545	21.15
146	Methyl acetate	43	2.735	2.735	(0.563)	75115	12.9219	12.92
138	Freon TF	101	2.371	2.371	(0.488)	107811	17.9788	17.97
139	Diethyl ether	59	2.172	2.172	(0.447)	134847	19.3578	19.35
141	Cyclohexane	56	4.845	4.841	(0.998)	166591	20.3339	20.33
147	Methylcyclohexane	55	5.970	6.003	(1.068)	313096	50.6344	50.63
132	n-Butanol	56	5.820	5.820	(1.198)	28804	367.058	367.05
131	Methyl Acrylate	55	4.395	4.395	(0.905)	99829	19.6902	19.69
133	Ethyl Acrylate	55	5.970	5.966	(1.229)	313096	44.7546	44.75
135	1,4-Dioxane	88	6.187	6.183	(1.274)	24429	417.303	417.30(A)
136	n-Hexane	57	3.406	3.406	(0.701)	98637	17.3176	17.31
142	Tetrahydrofuran	42	4.571	4.568	(0.941)	57721	42.7022	42.70
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	111296	405.148	405.14
149	Isopropyl alcohol	45	2.566	2.562	(0.528)	81946	377.714	377.71
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	268756	414.476	414.47
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	434558	20.6337	20.63
167	Ethanol	45	2.094	2.086	(0.431)	20238	404.934	404.93
170	1,3,5-Trichlorobenzene	180	11.885	11.889	(1.165)	191203	23.7208	23.72
172	tert-Butyl formate	59	5.239	5.239	(1.079)	71494	40.3694	40.36
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	128084	416.505	416.50
174	tert-Amyl methyl ether	73	5.321	5.325	(1.096)	207889	18.7783	18.77
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	251491	20.1409	20.14
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	164117	26.6761	26.67
156	Diisopropyl ether	45	3.664	3.664	(0.755)	288595	18.4120	18.41
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	183933	28.6001	28.60
130	Ethyl Acetate	43	4.365	4.365	(0.899)	176693	18.7343	18.73
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	71494	405.820	405.82(A)
M 94	1,2-Dichloroethylene (total)	96				223002	39.3081	39.30
M 95	Xylenes (total)	106				567606	61.4725	61.47

QC Flag Legend

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


Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,4-Dichlorobenzene-d4+
-1,2,3-Trimethylbenzene
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
\\NAHSTNS005\Target\chem\voa11.i\F240416.b\F041633.D
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Sample Info: HS24040905-04HSD;HS24040905-04HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1

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LabSampID : HS24040905-04MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041634.D Page 1
Report Date: 30-Apr-2024 16:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041634.D
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Inj Date : 16-APR-2024 23:24
Operator : FT Inst ID: voa11.i
Smp Info : CCV_END;CCV_END;2;;
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 30-Apr-2024 16:04 salina.zai Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	561141	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	299946	50.0000	48.78
3	Chloromethane	50	1.306	1.306	(0.269)	454217	50.0000	41.93
4	Propionitrile	54	4.339	4.339	(0.893)	737293	500.000	519.43
5	Vinyl Chloride	62	1.389	1.389	(0.286)	286595	50.0000	47.90
6	Bromomethane	94	1.629	1.629	(0.335)	149329	50.0000	42.76
7	Chloroethane	64	1.715	1.715	(0.353)	190594	50.0000	49.57
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	464075	50.0000	48.71
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	440305	50.0000	46.74
9	Acrolein	56	2.277	2.277	(0.469)	80520	100.000	150.58
10	Acetone	43	2.423	2.423	(0.499)	139650	100.000	88.79
11	1,1-Dichloroethene	96	2.363	2.363	(0.487)	227285	50.0000	47.89
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	89453	1000.00	1041.00
13	Acetonitrile	39	2.705	2.705	(0.557)	314134	500.000	466.74
14	Allyl Chloride	41	2.701	2.701	(0.556)	615777	50.0000	45.10
15	Iodomethane	142	2.495	2.495	(0.514)	269160	100.000	86.04
16	Acrylonitrile	53	3.076	3.076	(0.633)	194105	100.000	89.39
17	Methylene Chloride	84	2.821	2.821	(0.581)	274358	50.0000	44.56
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	608847	50.0000	44.98
19	Carbon Disulfide	76	2.555	2.555	(0.526)	1327690	100.000	91.97
20	trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	249556	50.0000	47.91

21 Vinyl Acetate	43	3.642	3.642 (0.750)	921998	100.000	92.81
22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	423664	50.0000	48.11

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Report Date: 30-Apr-2024 16:06

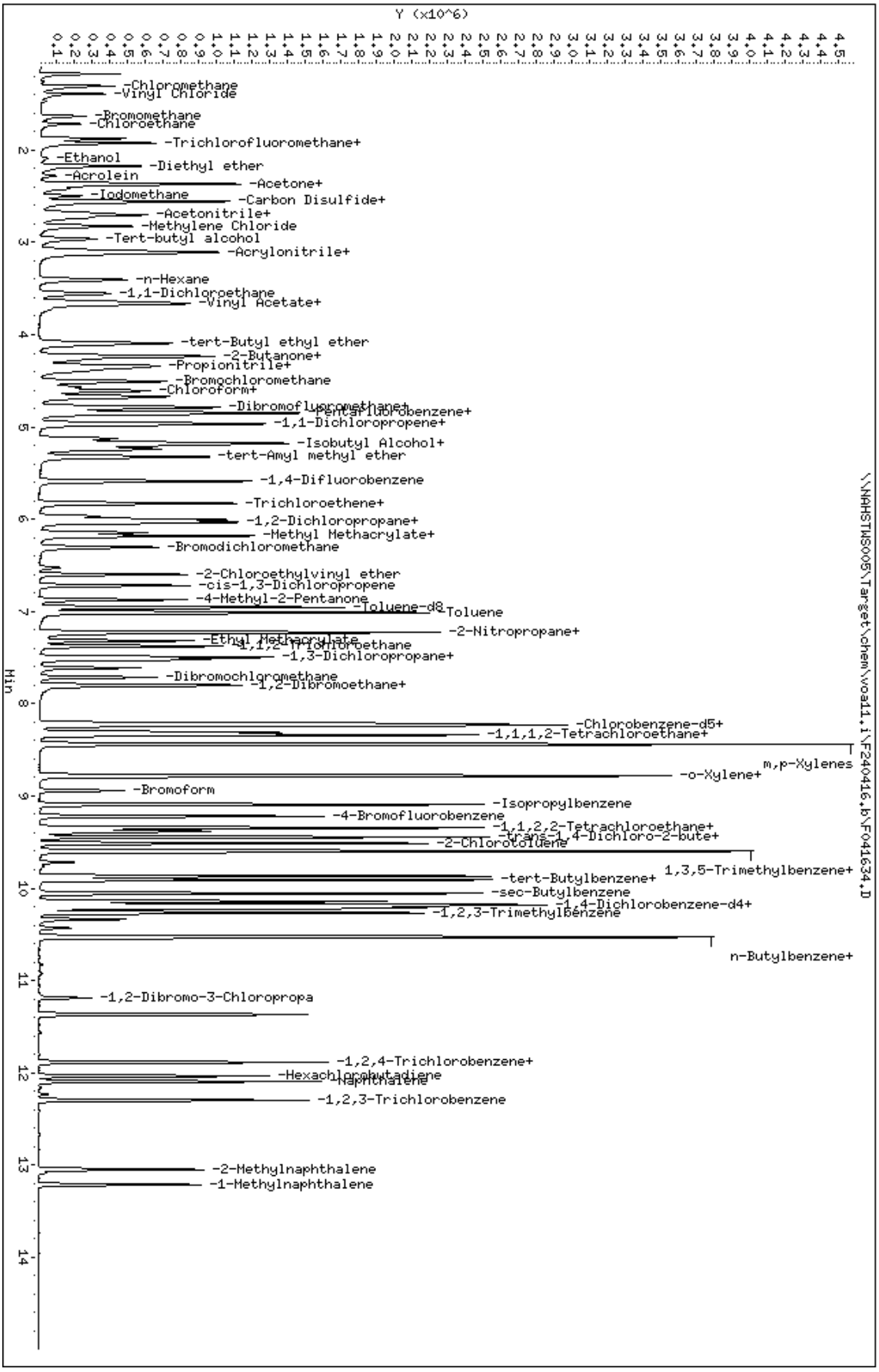
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.279	4.279	(0.881)	199411	100.000	94.71
	25	Methacrylonitrile	41	4.230	4.230	(0.871)	201987	50.0000	48.40
	26	2,2-Dichloropropane	77	4.234	4.234	(0.872)	278199	50.0000	44.16
	27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	300813	50.0000	53.99
	28	Chloroform	83	4.609	4.609	(0.949)	500595	50.0000	49.24
	29	Bromochloromethane	128	4.504	4.504	(0.927)	141317	50.0000	45.86
$	30	Dibromofluoromethane	113	4.778	4.778	(0.984)	255631	50.0000	46.70
	31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	443312	50.0000	55.23
	32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	343295	50.0000	49.73
	33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	431115	50.0000	47.33
	34	Carbon Tetrachloride	117	4.961	4.961	(0.888)	368231	50.0000	50.49
$	35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	310037	50.0000	45.70
*	36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	874532	50.0000	
	37	Benzene	78	5.179	5.179	(0.927)	1084786	50.0000	50.63
	38	Trichloroethene	130	5.827	5.827	(1.043)	297486	50.0000	46.50
	39	Bromodichloromethane	83	6.303	6.303	(1.128)	352339	50.0000	48.10
	40	Methyl Methacrylate	41	6.180	6.180	(1.272)	434378	50.0000	46.76
	41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	294887	100.000	82.55
	42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	262520	50.0000	47.73
	43	2-Nitropropane	43	7.229	7.229	(1.489)	288281	50.0000	49.09
	44	Dibromomethane	93	6.142	6.142	(1.099)	194103	50.0000	48.59
	45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	438595	100.000	98.79
	46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	377126	50.0000	41.36
*	47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	862715	50.0000	
$	48	Toluene-d8	98	6.956	6.956	(0.847)	930710	50.0000	45.58
	49	Ethyl Methacrylate	69	7.316	7.316	(1.309)	358537	50.0000	46.77
	50	Toluene	91	7.012	7.012	(0.854)	1180097	50.0000	46.46
	51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	344480	50.0000	45.76
	52	2-Hexanone	43	7.229	7.229	(0.880)	288281	100.000	89.29
	53	1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	217492	50.0000	44.14
	54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	440941	50.0000	44.96
	55	Dibromochloromethane	129	7.717	7.717	(0.939)	271355	50.0000	38.91
	56	Tetrachloroethene	164	7.495	7.495	(0.912)	244497	50.0000	42.23
	57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	296645	50.0000	44.60
	58	1-Chlorohexane	55	8.226	8.226	(1.472)	240750	50.0000	45.39
	59	Chlorobenzene	112	8.238	8.238	(1.003)	847223	50.0000	46.08
	60	1,1,1,2-Tetrachloroethane	131	8.309	8.309	(1.011)	305236	50.0000	52.68
	61	Ethylbenzene	106	8.339	8.339	(1.015)	439652	50.0000	54.27
	62	m,p-Xylenes	106	8.440	8.440	(1.027)	1079976	100.000	97.58
	63	o-Xylene	106	8.777	8.777	(1.068)	531532	50.0000	49.18
	64	Styrene	104	8.789	8.789	(1.070)	903225	50.0000	49.01
	66	Bromoform	173	8.942	8.942	(1.089)	176368	50.0000	49.85
	67	Isopropylbenzene	105	9.092	9.092	(1.107)	1366804	50.0000	49.66
	68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	393214	50.0000	53.63
$	69	4-Bromofluorobenzene	95	9.220	9.220	(1.122)	413069	50.0000	50.88
*	70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	437688	50.0000	
	71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	366951	50.0000	55.99
	72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	69394	50.0000	45.99
	73	n-Propylbenzene	91	9.445	9.445	(0.926)	1569144	50.0000	53.27
	74	Bromobenzene	156	9.344	9.344	(0.916)	372282	50.0000	50.73
	75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1180861	50.0000	51.30
	76	2-Chlorotoluene	91	9.512	9.512	(0.933)	956665	50.0000	52.65

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1124388	50.0000	51.21
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	1003672	50.0000	51.03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	1143043	50.0000	50.93
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	1331180	50.0000	48.53
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	1183281	50.0000	48.07
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	639869	50.0000	51.97
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	662720	50.0000	47.04
87	n-Butylbenzene	91	10.524	10.524	(1.032)	948703	50.0000	45.55
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	636958	50.0000	50.59
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	46022	50.0000	49.66
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	407511	50.0000	52.49
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	198812	50.0000	47.33
92	Naphthalene	128	12.095	12.095	(1.186)	955107	50.0000	51.95
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	382210	50.0000	50.46
146	Methyl acetate	43	2.735	2.735	(0.563)	264779	50.0000	47.78
138	Freon TF	101	2.371	2.371	(0.488)	261832	50.0000	45.80
139	Diethyl ether	59	2.172	2.172	(0.447)	335739	50.0000	50.56
141	Cyclohexane	56	4.841	4.841	(0.997)	381403	50.0000	49.51
147	Methylcyclohexane	55	6.003	6.003	(1.074)	308372	50.0000	46.23
132	n-Butanol	56	5.820	5.820	(1.198)	88025	1000.00	1055.52
131	Methyl Acrylate	55	4.392	4.392	(0.904)	247139	50.0000	47.35
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	283552	50.0000	42.74
135	1,4-Dioxane	88	6.187	6.187	(1.274)	59439	1000.00	1020.60(A)
136	n-Hexane	57	3.406	3.406	(0.701)	254840	50.0000	44.50
142	Tetrahydrofuran	42	4.571	4.571	(0.941)	145976	100.000	106.49
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	287580	1000.00	1011.27
149	Isopropyl alcohol	45	2.566	2.566	(0.528)	220032	1000.00	986.26
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	757455	1000.00	1001.46
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	981607	50.0000	47.83
167	Ethanol	45	2.090	2.090	(0.430)	49021	1000.00	1043.99
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	407511	50.0000	52.49
172	tert-Butyl formate	59	5.239	5.239	(1.079)	209818	100.000	113.85
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	371490	1000.00	996.70
174	tert-Amyl methyl ether	73	5.321	5.321	(1.096)	610100	50.0000	49.44
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	668117	50.0000	50.03
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	342395	50.0000	53.73
156	Diisopropyl ether	45	3.664	3.664	(0.755)	749642	50.0000	47.97
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	356236	50.0000	55.08
130	Ethyl Acetate	43	4.365	4.365	(0.899)	471914	50.0000	47.64
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	209818	1000.00	1143.53(A)
M 94	1,2-Dichloroethylene (total)	96				550369	100.000	101.90
M 95	Xylenes (total)	106				1611508	150.000	146.76

QC Flag Legend

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



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041634.D
Date : 16-APR-2024 23:24
Client ID: CCV_END
Sample Info: CCV_END;CCV_END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041634.D
Inj Date : 16-APR-2024 23:24
InstruID : voa11.i
LabSampID : CCV_END

NO MANUAL INTEGRATIONS

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

WorkOrder: HS24040784

Longhorn GW Treatment Plant Monthly Influent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

22-May-2024

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
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Form 8 - ICPMS07_464270 SD

HS24040784 Wetchem Cr6_W_7196_DOD

HS24040784 E2400358 Dioxin Level IV Final Report

CoverLetter

Certificate of Analysis

Chain of Custody

Preparation Sheets

Analytical Results

Accuracy and Precision

Initial Calibration

Chromatograms and Selected Ion Monitoring

HS24040784 Longhorn GW Treatment Plant Monthly Influent Samples cover page

ALS WO# HS24040784

HS24040784 Longhorn GW Treatment Plant Monthly Influent Samples Final

ALS WO# HS24040784

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

April 26, 2024

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

Work Order: **HS24040784**

Laboratory Results for: **Longhorn GW Treatment Plant Monthly Influent Samples**

Dear Marcia Olive,

ALS Environmental received 1 sample(s) on Apr 11, 2024 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
Work Order: HS24040784

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24040784-01	LH18/24-SP140_041024	Water		10-Apr-2024 13:00	11-Apr-2024 09:30	☐

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Monthly Influent Samples
Work Order: HS24040784

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

Metals by Method SW6020A

Batch ID: 210597

Sample ID: HS24040355-01MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SW7196

Batch ID: R463771

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

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Longhorn GW Treatment Plant Monthly Influent Samples WorkOrder:HS24040784

Sample ID: LH18/24-SP140_041024 Lab ID:HS24040784-01

Collection Date: 10-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 17-Apr-2024		Analyst: MSC
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	17-Apr-2024 19:19
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	17-Apr-2024 19:19
HEXAVALENT CHROMIUM BY SW7196A		**Method:SW7196**						Analyst: HB
Chromium, Hexavalent	0.0100	U	0.00600	0.0100	0.0100	mg/L	1	11-Apr-2024 11:42
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Apr-2024 08:53

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

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Influent Samples

WorkOrder: HS24040784

Batch ID: 210597 **Start Date:** 17 Apr 2024 08:00 **End Date:** 17 Apr 2024 08:00

Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24040784-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 210597 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24040784-01	LH18/24-SP140_041024	10 Apr 2024 13:00		17 Apr 2024 08:00	17 Apr 2024 19:19	1
Batch ID: R463771 (0)	**Test Name :** HEXAVALENT CHROMIUM BY SW7196A				**Matrix:** Water	
HS24040784-01	LH18/24-SP140_041024	10 Apr 2024 13:00			11 Apr 2024 11:42	1
Batch ID: R465025 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24040784-01	LH18/24-SP140_041024	10 Apr 2024 13:00			25 Apr 2024 08:53	1

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

QC BATCH REPORT

Batch ID: 210597 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-210597** Units: **mg/L** Analysis Date: **17-Apr-2024 18:41**
Client ID: Run ID: **ICPMS07_464270** SeqNo: **7954346** PrepDate: **17-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04498	0.00500	0.05	0	90.0	80 - 120				
Silver	0.04519	0.00500	0.05	0	90.4	85 - 116				

MS Sample ID: **HS24040355-01MS** Units: **mg/L** Analysis Date: **17-Apr-2024 18:48**
Client ID: Run ID: **ICPMS07_464270** SeqNo: **7954349** PrepDate: **17-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.05028	0.00500	0.05	0.006221	88.1	80 - 120				
Silver	0.0448	0.00500	0.05	-0.000001	89.6	85 - 116				

MSD Sample ID: **HS24040355-01MSD** Units: **mg/L** Analysis Date: **17-Apr-2024 19:16**
Client ID: Run ID: **ICPMS07_464270** SeqNo: **7954364** PrepDate: **17-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04986	0.00500	0.05	0.006221	87.3	80 - 120	0.05028	0.835	20	
Silver	0.04217	0.00500	0.05	-0.000001	84.3	85 - 116	0.0448	6.05	20	S

PDS Sample ID: **HS24040355-01PDS** Units: **mg/L** Analysis Date: **17-Apr-2024 18:53**
Client ID: Run ID: **ICPMS07_464270** SeqNo: **7954351** PrepDate: **17-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.09789	0.00500	0.1	0.006221	91.7	80 - 120				
Silver	0.09298	0.00500	0.1	-0.000001	93.0	80 - 120				

SD Sample ID: **HS24040355-01SD** Units: **mg/L** Analysis Date: **17-Apr-2024 18:46**
Client ID: Run ID: **ICPMS07_464270** SeqNo: **7954348** PrepDate: **17-Apr-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Selenium	0.006618	0.0250					0.006221	0	10	J
Silver	0.00250	0.0250					-0.000001	0	10	U

The following samples were analyzed in this batch: HS24040784-01

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

QC BATCH REPORT

Batch ID: R463771 (0) **Instrument: UV-2450** **Method: HEXAVALENT CHROMIUM BY SW7196A**

MBLK Sample ID: **MBLK-R463771** Units: **mg/L** Analysis Date: **11-Apr-2024 11:42**
Client ID: Run ID: **UV-2450_463771** SeqNo: **7942728** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.0100	0.0100								U

LCS Sample ID: **LCS-R463771** Units: **mg/L** Analysis Date: **11-Apr-2024 11:42**
Client ID: Run ID: **UV-2450_463771** SeqNo: **7942727** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.258	0.0100	0.25	0	103	90 - 111				

MS Sample ID: **HS24040784-01MS** Units: **mg/L** Analysis Date: **11-Apr-2024 11:42**
Client ID: **LH18/24-SP140_041024** Run ID: **UV-2450_463771** SeqNo: **7942730** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.268	0.0100	0.25	0	107	90 - 111				

MSD Sample ID: **HS24040784-01MSD** Units: **mg/L** Analysis Date: **11-Apr-2024 11:42**
Client ID: **LH18/24-SP140_041024** Run ID: **UV-2450_463771** SeqNo: **7942729** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.268	0.0100	0.25	0	107	90 - 111	0.268	0	20	

The following samples were analyzed in this batch: HS24040784-01

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: **HS24040784**

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
California	2919; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00109	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 26-Apr-24

Sample Receipt Checklist

Work Order ID: HS24040784 **Date/Time Received:** 11-Apr-2024 09:30

Client Name: Bhate Environmental **Received by:** Aytu Tuncer

Completed By:	/S/ Jacob Coronado	11-Apr-2024 10:40	**Reviewed by:**	/S/ Luis.Aguilar	15-Apr-2024 13:06
	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/3.1c	ir31	
Cooler(s)/Kit(s):	43655		
Date/Time sample(s) sent to storage:	04/11/2024 1041		
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

HS24040784

Name Of Lab Shipping To: ALS 10450 Stanecliff Rd., Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: James Guin

Bhate Environmental Associates, Inc.

Longhorn GW Treatment Plant Monthly Influent Sam

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT MONTHLY INFLUENT SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	SILVER & SELENIUM	HEXAVALENT CHROMIUM	PERCHLORATE	Analys	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP140_041024	Water	04/10/24 / 13:00		1	X				HNO3	
LH18/24-SP140_041024	Water	04/10/24 / 13:00		2		X	X		NONE	

Additional Remarks: **STANDARD TURN AROUND TIME**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	04/10/24	13:30									

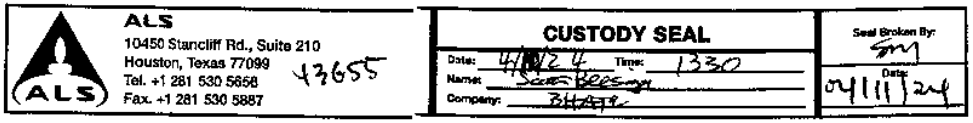
For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
A-T	4/11/24		9:30						

Remarks:

Coolers 43655 Temp 3.2 9:30 CF +0.1

(Word) S:\Forms\Chain of Custody - BiWeekly



43655 APR 1 1 2024

April 24, 2024 Service Request No:E2400358

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040784

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 11, 2024
For your reference, these analyses have been assigned our service request number **E2400358.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

Client:	ALS Environmental - US	Service Request No.:	E2400358
Project:	HS24040784	Date Received:	04/11/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 04/11/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400188: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400358
Project: HS24040784

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400358-001	LH18/24-SP140_041024	4/10/2024	1300

Service Request Summary

Folder #: **E2400358**
Client Name: ALS Environmental - US
Project Name: HS24040784
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/11/24
Internal Due Date: 4/23/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4E
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400358-001	LH18/24-SP140_041024	Water	04/10/24 1300	**IV***

Service Request Summary

Folder #:	**E2400358**
Client Name:	ALS Environmental - US
Project Name:	HS24040784
Project Number:	

Report To:	Luis Aguilar ALS Environmental - US 10450 Stancliff Rd Suite 210 Houston, TX 77099 USA
Phone Number:	
Cell Number:	
Fax Number:	
E-mail:	luis.aguilar@alsglobal.com

Project Chemist:	Hussam Kelany
Originating Lab:	HOUSTON
Logged By:	JCORONADO2
Date Received:	04/11/24
Internal Due Date:	4/23/2024
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 4E

Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400358
ALS Environmental - US
HS24040784

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25321**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	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:	HS24040784
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040784-01**	**LH18/24-SP140_041024**	**Water**	**10 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 4/11/24 1040

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

E2400358 5
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HS24040784

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Sample Receipt Checklist

Work Order ID: HS24040784 **Date/Time received:** 11 Apr 2024 09:30

Client name: Bhate Environmental Associates, Inc. **Received by:** Aytu Tuncer

Completed/By: 11 Apr 2024 10:40 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **Carrier name:** FedEx

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

Temperature(s)/Thermometer(s): 3.0uc/3.1c ir31

Cooler Information: 1 Cooler(s), 43655

Date/Time sample(s) sent to storage: 04/11/2024 1041

Water - VOA vials have zero headspace?	☐ Yes	☐ No	☑ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400354-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400358-001	LH18/24-SP140_041024	.01	6850/ClO4 DOD			Water	10mL	
3	E2400363-001	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2400378-001	LTMSW16-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
5	E2400378-002	LTMSW15-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
6	E2400378-003	FD01-SW-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
7	E2400378-004	LTMSW14-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
8	E2400378-005	LTMSW13-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
9	E2400378-006	LTMSW12-040924	.03	6850/ClO4 DOD			Surface Water	10mL	
10	E2400381-001	2404091004A PL-1-486	.01	6850/ClO4 DOD			Water	10mL	
11	E2400391-001	LH18/24-SP650_041724_BIX	.01	6850/ClO4 DOD			Water	10mL	
12	E2400391-002	LH18/24-SP650_041724_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	EQ2400188-01	MB		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400188-02	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400188-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400188-04	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400188-05	LTMSW12-040924 MS	.03	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400188-06	LTMSW12-040924 DMS	.03	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400188-02 10.00µL EQ2400188-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400391-001 100.00µL E2400391-002 100.00µL EQ2400188-01 100.00µL EQ2400188-02 100.00µL EQ2400188-03 100.00µL EQ2400188-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400188-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer-Lok Syringes (228117)

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

Preparation Steps

Step: Preparation
Started: 4/19/24 09:00
Finished: 4/19/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP140_041024	**Units:**	µg/L
Lab Code:	E2400358-001	**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	**10400**		100	50.0	25.0	1000	4/19/24	4/19/24 15:32	437153	838801	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400188-01	**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	4/19/24	4/19/24 11:44	437153	838403	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	437153

	Lab Control Sample EQ2400188-02			Duplicate Lab Control Sample EQ2400188-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.111	0.100	111	0.118	0.100	118	84 - 119	6	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:**	E2400358
Project:	HS24040784	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-02	**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	**0.111**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:50	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-03	**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	4/19/24	4/19/24 11:56	437153	838403	

HS24040784 - ME - ICP_W_DOD

ALS WO# HS24040784

ALS Houston, US Date: 22-May-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784
Start Date: 17-Apr-2024 End Date: 17-Apr-2024

Run ID:ICPMS07_464270
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_464270_Tune	1	17-Apr-2024 00:00	ICPMS07_464270_Tune_1	
CAL BLK	1	17-Apr-2024 10:06	012CALB.d_7952683	AG SE
2/10/200	1	17-Apr-2024 10:08	013CALS.d_7952684	AG SE
5/25/500	1	17-Apr-2024 10:11	014CALS.d_7952685	AG SE
10/50/100	1	17-Apr-2024 10:13	015CALS.d_7952686	AG SE
100/500/10K	1	17-Apr-2024 10:15	016CALS.d_7952687	AG SE
200/1000/20K	1	17-Apr-2024 10:17	017CALS.d_7952688	AG SE
ICV	1	17-Apr-2024 10:24	019CALS.d_7952690	AG SE
LLICV2	1	17-Apr-2024 10:31	022LCV2.d_7952693	AG SE
LLICV5	1	17-Apr-2024 10:34	023LCV5.d_7952694	AG SE
ICB	1	17-Apr-2024 10:38	025_ICB.d_7952696	AG SE
ICSA	1	17-Apr-2024 10:41	026ICSA.d_7952697	AG SE
ICSAB	1	17-Apr-2024 10:43	027ICSB.d_7952698	AG SE
CAL BLK	1	17-Apr-2024 17:58	199CALB.d_7954295	AG SE
2/10/200	1	17-Apr-2024 18:00	200CALS.d_7954296	AG SE
5/25/500	1	17-Apr-2024 18:02	201CALS.d_7954297	AG SE
10/50/100	1	17-Apr-2024 18:05	202CALS.d_7954298	AG SE
100/500/10K	1	17-Apr-2024 18:07	203CALS.d_7954299	AG SE
200/1000/20K	1	17-Apr-2024 18:09	204CALS.d_7954300	AG SE
CCB 1	1	17-Apr-2024 18:20	207_CCB.d_7954303	AG SE
LLCCV5	1	17-Apr-2024 18:23	208LCV5.d_7954304	AG SE
LLCCV2	1	17-Apr-2024 18:25	209LCV2.d_7954305	AG SE
ICCB 2	1	17-Apr-2024 18:27	210_ICB.d_7954306	AG SE
ICV	1	17-Apr-2024 18:30	211_CCV.d_7954307	AG SE
CCV 1	1	17-Apr-2024 18:34	213_CCV.d_7954343	AG SE
CCB 3	1	17-Apr-2024 18:37	214_CCB.d_7954344	AG SE
LCS-210597	1	17-Apr-2024 18:41	216SMPL.d_7954346	AG SE
ZZZZZZSD	5	17-Apr-2024 18:46	218SMPL.d_7954348	AG SE
ZZZZZZMS	1	17-Apr-2024 18:48	219SMPL.d_7954349	AG SE
ZZZZZZPDS	1	17-Apr-2024 18:53	221SMPL.d_7954351	AG SE
CCV 2	1	17-Apr-2024 19:02	225_CCV.d_7954358	AG SE
CCB 4	1	17-Apr-2024 19:05	226_CCB.d_7954359	AG SE
LCS-210597	1	17-Apr-2024 19:07	227SMPL.d_7954360	
ZZZZZZSD	100	17-Apr-2024 19:12	229SMPL.d_7954362	
ZZZZZZPDS	20	17-Apr-2024 19:14	230SMPL.d_7954363	
ZZZZZZMSD	1	17-Apr-2024 19:16	231SMPL.d_7954364	AG SE
LH18/24-SP140_041024	1	17-Apr-2024 19:19	232SMPL.d_7954365	AG SE
CCV 3	1	17-Apr-2024 19:34	237_CCV.d_7954375	AG SE
CCB 5	1	17-Apr-2024 19:36	238_CCB.d_7954376	AG SE
CCV 4	1	17-Apr-2024 19:58	247_CCV.d_7954385	AG SE
CCB 6	1	17-Apr-2024 20:00	248_CCB.d_7954386	AG SE

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

Run ID: ICPMS07_464270
Instrument: ICPMS07
Method: SW6020A

ICV	Date: 17-Apr-2024 10:24		Seq: 7952690	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	96.3	96	90-110	
Silver	100	102.728	103	90-110	

ICV	Date: 17-Apr-2024 18:30		Seq: 7954307	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	101.514	102	90-110	
Silver	100	102.962	103	90-110	

CCV1	Date: 17-Apr-2024 18:34		Seq: 7954343	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	102.162	102	90-110	
Silver	100	104.328	104	90-110	

CCV2	Date: 17-Apr-2024 19:02		Seq: 7954358	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	99.907	100	90-110	
Silver	100	102.087	102	90-110	

CCV3	Date: 17-Apr-2024 19:34		Seq: 7954375	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	102.386	102	90-110	
Silver	100	103.419	103	90-110	

CCV4	Date: 17-Apr-2024 19:58		Seq: 7954385	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Selenium	100	96.155	96	90-110	
Silver	100	102.711	103	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

Run ID: ICPMS07_464270
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 17-Apr-2024 10:38		Seq: 7952696	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
CCB1	Date: 17-Apr-2024 18:20		Seq: 7954303	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
ICCB2	Date: 17-Apr-2024 18:27		Seq: 7954306	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
CCB3	Date: 17-Apr-2024 18:37		Seq: 7954344	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
CCB4	Date: 17-Apr-2024 19:05		Seq: 7954359	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
CCB5	Date: 17-Apr-2024 19:36		Seq: 7954376	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
CCB6	Date: 17-Apr-2024 20:00		Seq: 7954386	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_464270

Project: Longhorn GW Treatment Plant Monthly Influent Samples Instrument: ICPMS07

WorkOrder: HS24040784 Method: SW6020A

ICSA	Date: 17-Apr-2024 10:41	Seq: 7952697	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Selenium		0.18	0	
Silver		0.382	0	

ICSAB	Date: 17-Apr-2024 10:43	Seq: 7952698	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Selenium	100	102.3	102	
Silver	100	98.35	98.4	

ALS Houston, US

Date: 22-May-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

Date Analyzed: 17-Apr-2024 19:16
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Matrix Spike: HS24040355-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Selenium	6.221	50.28	50.00	88.1	49.86	50.00	87.3	80-120	0.835	20
Silver	5.000	44.80	50.00	89.6	42.17	50.00	84.3	85-116	6.05	20

ALS Houston, US Date: 22-May-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

Date Analyzed: 17-Apr-2024 18:53
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Lab Sample ID: HS24040355-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Selenium	6.221	97.89	100	92	80-120
Silver	0	92.98	100	93	80-120

ALS Houston, US

Date: 22-May-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

Date Analyzed: 17-Apr-2024 18:41
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Lab Sample ID: LCS-210597
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Selenium	50	44.98	90	80-120
Silver	50	45.19	90	85-116

ALS Houston, US Date: 22-May-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Influent Samples
WorkOrder: HS24040784

Date Analyzed: 17-Apr-2024 18:46
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Lab Sample ID: HS24040355-01SD
Client Sample ID:

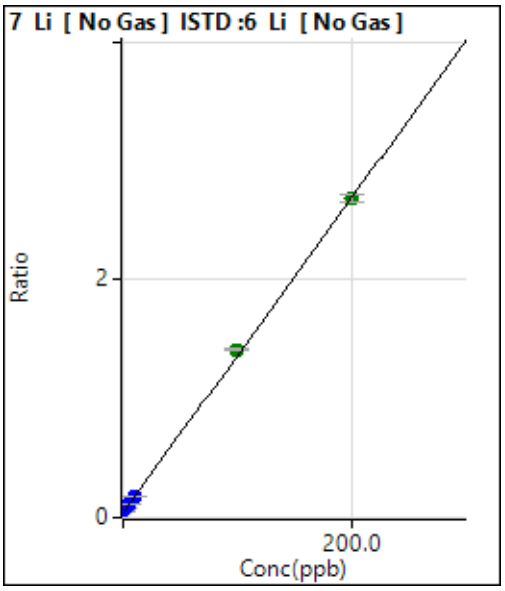
Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Selenium	6.221		6.618	J	6	
Silver	0	U	0	U	0	

Calibration for 206_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\041724A.b\
Analysis File: 041724A.batch.bin
DA Date-Time: 4/17/2024 6:33:14 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

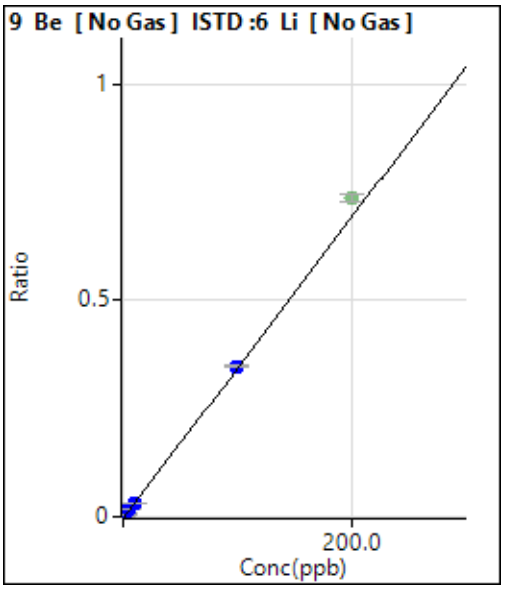
Level	Standard Data File	Sample Name	Acq. Date-Time
1	199CALB.d	CAL BLK	4/17/2024 5:58:03 PM
2	200CALS.d	2/10/200	4/17/2024 6:00:22 PM
3	201CALS.d	5/25/500	4/17/2024 6:02:41 PM
4	202CALS.d	10/50/100	4/17/2024 6:05:00 PM
5	203CALS.d	100/500/10K	4/17/2024 6:07:18 PM
6	204CALS.d	200/1000/20K	4/17/2024 6:09:28 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	92515.08	0.0569	P	0.8	
2	☐	2.000	1.875	131321.38	0.0817	P	1.8	-6.3
3	☐	5.000	4.652	189802.70	0.1184	P	0.7	-7.0
4	☐	10.000	9.094	291183.60	0.1772	P	2.7	-9.1
5	☐	100.000	102.680	2197255.96	1.4160	A	1.0	2.7
6	☐	200.000	198.715	4070299.84	2.6873	A	2.8	-0.6

y = 0.0132 * x + 0.0569
R = 0.9999
DL = 0.1018 ppb
BEC = 4.296 ppb

Weight: <None>
Min Conc: <None>

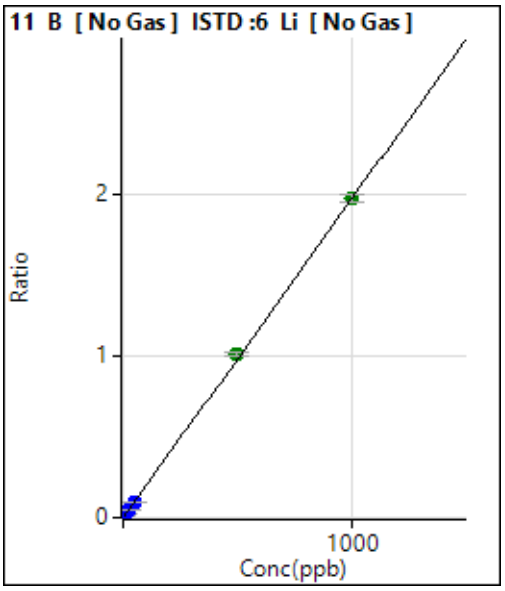


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	81.67	0.0001	P	4.0	
2	☐	2.000	1.894	10672.47	0.0066	P	1.6	-5.3
3	☐	5.000	4.640	25947.38	0.0162	P	2.1	-7.2
4	☐	10.000	9.326	53374.24	0.0325	P	3.9	-6.7
5	☐	100.000	100.088	540248.81	0.3482	P	1.1	0.1
6	☑	200.000		1115829.65	0.7367	A	2.6	

y = 0.0035 * x + 5.0205E-005
R = 1.0000
DL = 0.001711 ppb
BEC = 0.01443 ppb

Weight: <None>
Min Conc: <None>

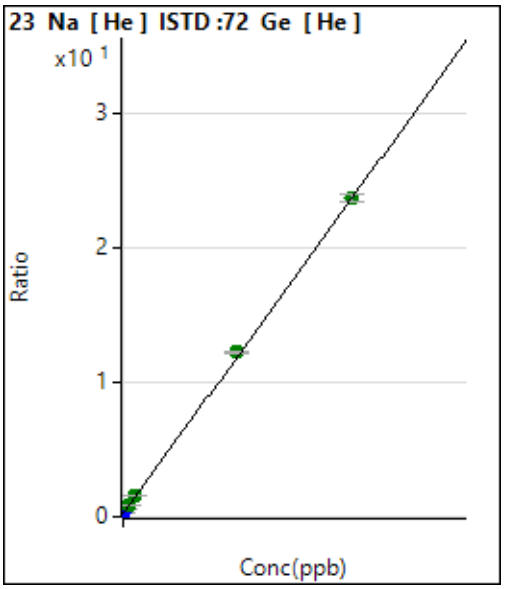
Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13941.98	0.0086	P	1.7	
2	☐	10.000	8.689	41377.56	0.0257	P	2.6	-13.1
3	☐	25.000	22.080	83644.27	0.0522	P	1.0	-11.7
4	☐	50.000	44.306	157917.30	0.0961	P	2.5	-11.4
5	☐	500.000	506.719	1566851.90	1.0099	A	2.5	1.3
6	☐	1000.000	997.012	2997312.56	1.9789	A	2.6	-0.3

y = 0.0020 * x + 0.0086
R = 0.9999
DL = 0.217 ppb
BEC = 4.336 ppb

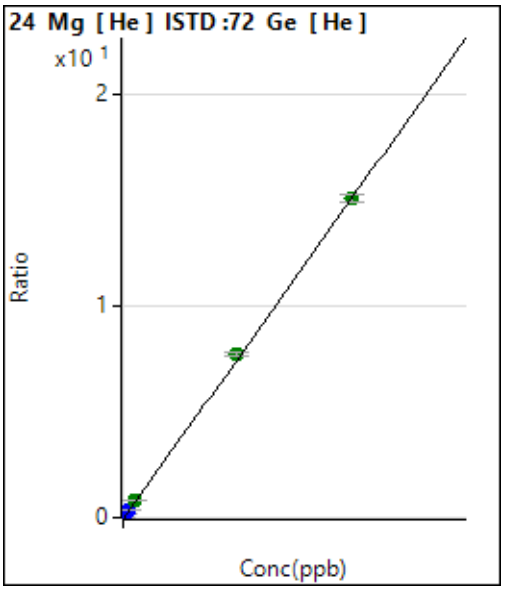
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	454082.35	0.3335	P	1.4	
2	☐	200.000	163.455	722157.10	0.5252	P	2.9	-18.3
3	☐	500.000	483.797	1244872.01	0.9008	A	0.8	-3.2
4	☐	1000.000	1010.102	2077061.90	1.5179	A	1.9	1.0
5	☐	10000.00	10135.03	16589723.92	12.2173	A	1.7	1.4
6	☐	20000.00	19932.75	32132985.35	23.7056	A	2.8	-0.3

y = 0.0012 * x + 0.3335
R = 1.0000
DL = 11.95 ppb
BEC = 284.5 ppb

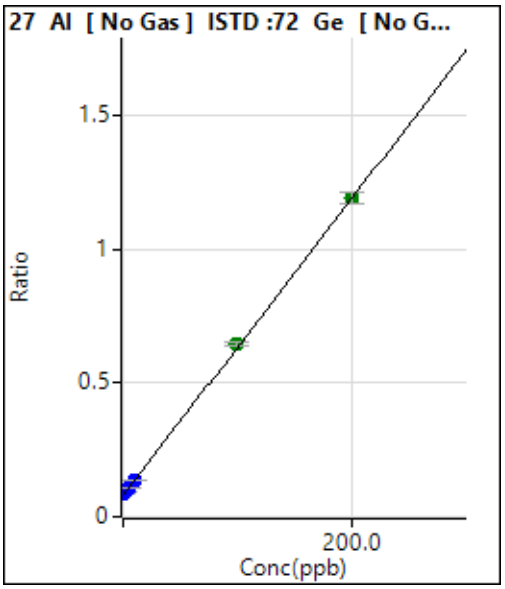
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2316.90	0.0017	P	2.7	
2	☐	200.000	181.691	191652.58	0.1394	P	3.9	-9.2
3	☐	500.000	443.720	467028.08	0.3380	P	1.2	-11.3
4	☐	1000.000	1048.134	1089253.00	0.7960	A	2.1	4.8
5	☐	10000.00	10190.03	10487450.47	7.7243	A	1.7	1.9
6	☐	20000.00	19904.16	20449105.11	15.0863	A	2.9	-0.5

y = 7.5786E-004 * x + 0.0017
R = 0.9999
DL = 0.1816 ppb
BEC = 2.246 ppb

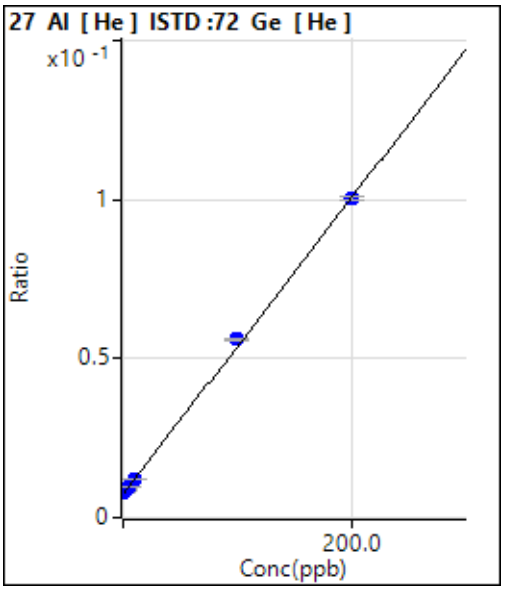
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	364554.23	0.0859	P	2.1	
2	☐	2.000	0.957	386618.24	0.0912	P	0.5	-52.2
3	☐	5.000	4.119	461554.05	0.1087	P	1.8	-17.6
4	☐	10.000	8.585	568906.67	0.1335	P	0.9	-14.2
5	☐	100.000	101.410	2752325.69	0.6484	A	1.9	1.4
6	☐	200.000	199.398	4928114.10	1.1920	A	3.7	-0.3

y = 0.0055 * x + 0.0859
R = 0.9999
DL = 0.9799 ppb
BEC = 15.48 ppb

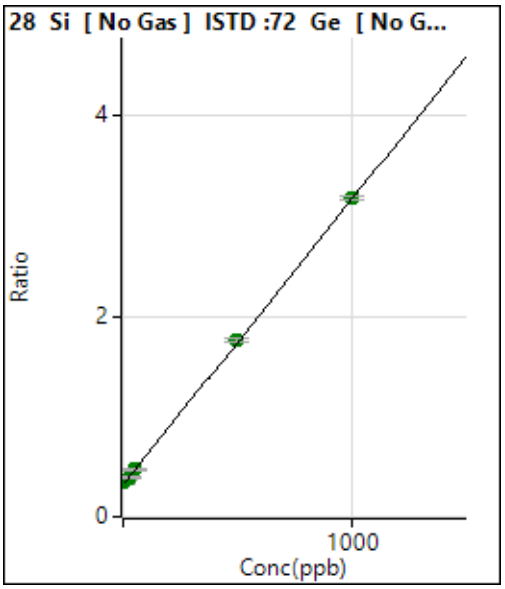
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10757.69	0.0079	P	2.9	
2	☐	2.000	1.566	11865.28	0.0086	P	4.2	-21.7
3	☐	5.000	4.023	13510.14	0.0098	P	1.1	-19.5
4	☐	10.000	8.934	16513.45	0.0121	P	3.3	-10.7
5	☐	100.000	103.126	76031.17	0.0560	P	1.5	3.1
6	☐	200.000	198.519	136251.04	0.1005	P	1.4	-0.7

y = 4.6640E-004 * x + 0.0079
R = 0.9998
DL = 1.449 ppb
BEC = 16.94 ppb

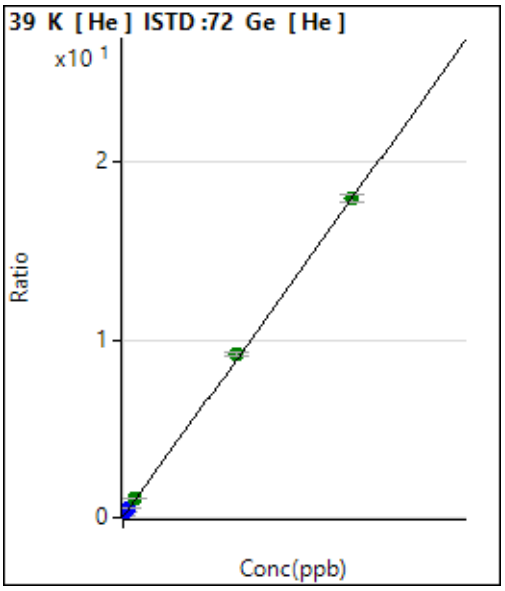
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1432780.71	0.3375	A	2.0	
2	☐	10.000	7.399	1520286.80	0.3585	A	0.2	-26.0
3	☐	25.000	19.566	1669197.42	0.3932	A	0.7	-21.7
4	☐	50.000	47.686	2016618.09	0.4732	A	2.0	-4.6
5	☐	500.000	500.306	7476286.14	1.7616	A	2.1	0.1
6	☐	1000.000	1000.124	13169606.47	3.1844	A	1.6	0.0

y = 0.0028 * x + 0.3375
R = 1.0000
DL = 7.15 ppb
BEC = 118.6 ppb

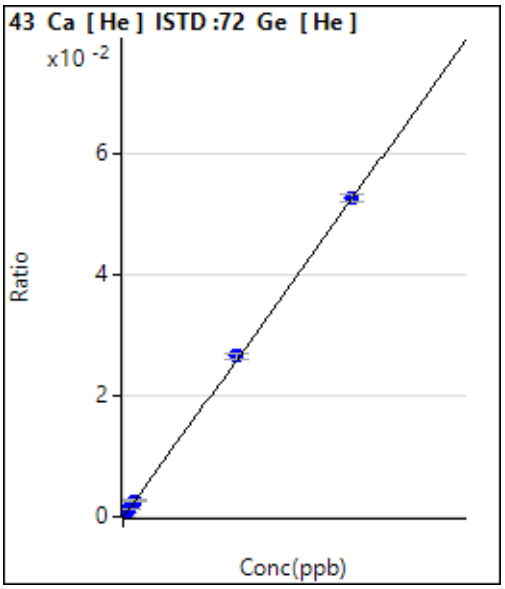
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	171326.57	0.1258	P	0.2	
2	☐	200.000	180.657	395313.04	0.2875	P	3.4	-9.7
3	☐	500.000	454.465	735852.31	0.5326	P	1.8	-9.1
4	☐	1000.000	1057.571	1467223.47	1.0723	A	3.0	5.8
5	☐	10000.00	10142.85	12494337.73	9.2029	A	2.6	1.4
6	☐	20000.00	19927.02	2434526547	17.9589	A	2.7	-0.4

y = 8.9492E-004 * x + 0.1258
R = 1.0000
DL = 0.979 ppb
BEC = 140.6 ppb

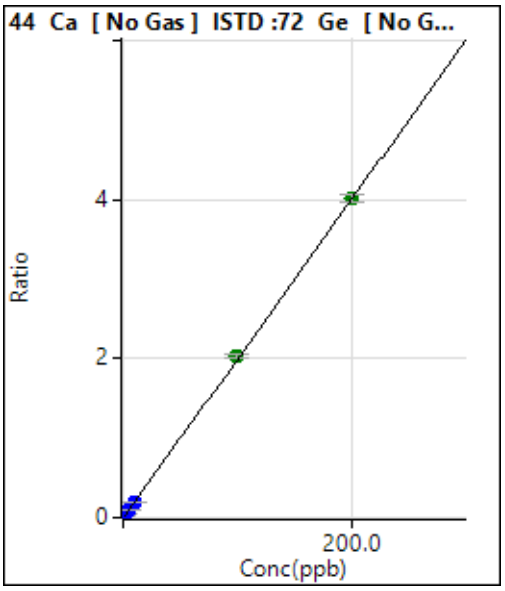
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.33	0.0001	P	29.4	
2	☐	200.000	160.377	726.70	0.0005	P	5.0	-19.8
3	☐	500.000	451.115	1786.82	0.0013	P	14.7	-9.8
4	☐	1000.000	973.242	3653.88	0.0027	P	5.8	-2.7
5	☐	10000.00	10057.31	36121.08	0.0266	P	3.3	0.6
6	☐	20000.00	19974.30	71495.51	0.0527	P	2.8	-0.1

y = 2.6349E-006 * x + 1.0550E-004
R = 1.0000
DL = 35.29 ppb
BEC = 40.04 ppb

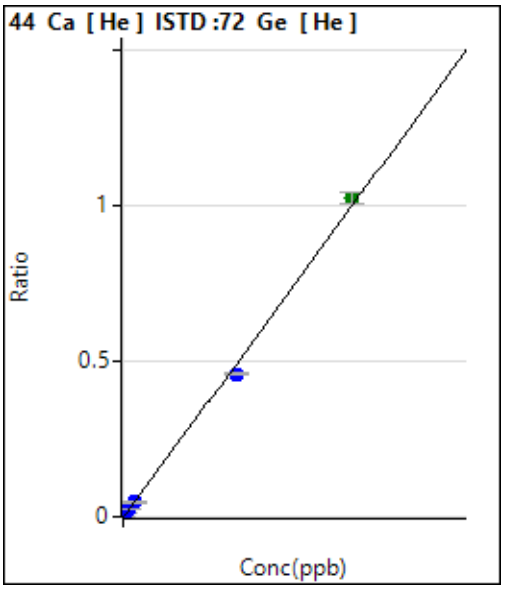
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56432.25	0.0133	P	1.7	
2	☐	2.000	1.770	206875.64	0.0488	P	0.8	-11.5
3	☐	5.000	4.492	438814.19	0.1034	P	1.3	-10.2
4	☐	10.000	9.112	835150.46	0.1960	P	2.3	-8.9
5	☐	100.000	100.828	8635613.62	2.0349	A	1.4	0.8
6	☐	200.000	199.646	16608131.42	4.0161	A	2.7	-0.2

y = 0.0200 * x + 0.0133
R = 1.0000
DL = 0.03362 ppb
BEC = 0.6629 ppb

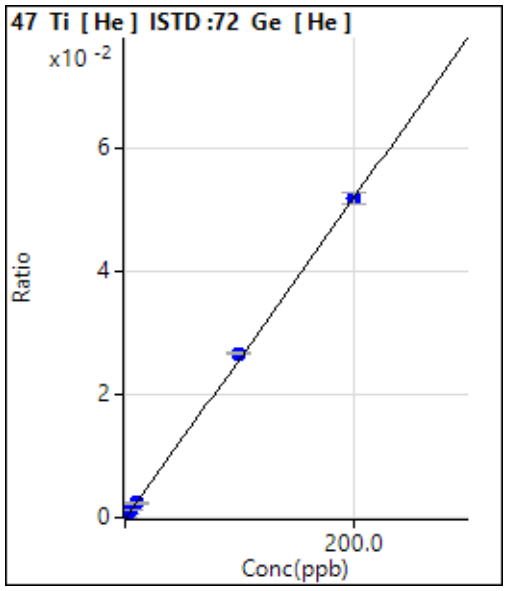
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2486.94	0.0018	P	1.1	
2	☐	200.000	167.265	14000.68	0.0102	P	7.7	-16.4
3	☐	500.000	427.640	32064.40	0.0232	P	2.3	-14.5
4	☐	1000.000	892.587	63560.24	0.0464	P	1.3	-10.7
5	☐	10000.00	9149.318	623473.69	0.4592	P	2.4	-8.5
6	☐	20000.00	20432.84	1387023.42	1.0233	A	3.1	2.2

y = 4.9992E-005 * x + 0.0018
R = 0.9988
DL = 1.198 ppb
BEC = 36.54 ppb

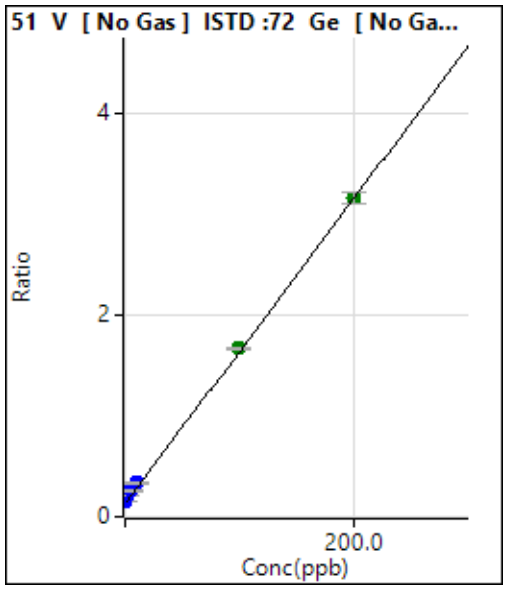
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	133.	
2	☐	2.000	1.970	726.70	0.0005	P	13.2	-1.5
3	☐	5.000	4.821	1760.15	0.0013	P	5.3	-3.6
4	☐	10.000	9.014	3240.43	0.0024	P	2.7	-9.9
5	☐	100.000	102.308	36281.52	0.0267	P	1.9	2.3
6	☐	200.000	198.900	70397.38	0.0519	P	3.7	-0.5

y = 2.6105E-004 * x + 1.4810E-005
R = 0.9999
DL = 0.2265 ppb
BEC = 0.05673 ppb

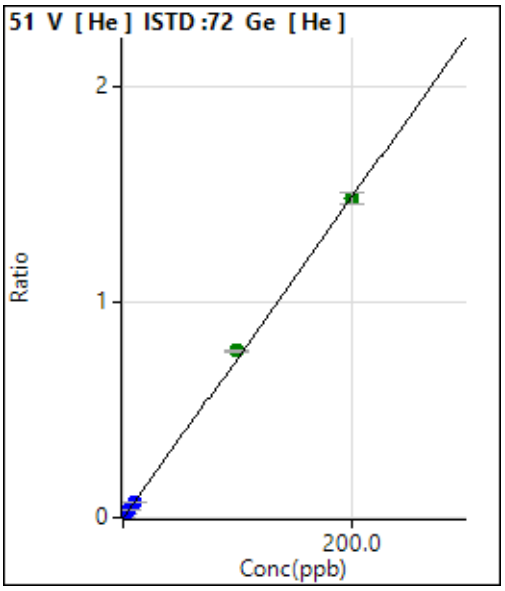
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	614798.06	0.1448	P	2.4	
2	☐	2.000	4.402	896422.41	0.2114	P	0.5	120.1
3	☐	5.000	7.432	1092129.65	0.2573	P	2.0	48.6
4	☐	10.000	12.468	1421050.90	0.3335	P	1.3	24.7
5	☐	100.000	100.657	7078569.65	1.6677	A	1.0	0.7
6	☐	200.000	199.463	13076010.33	3.1626	A	3.4	-0.3

y = 0.0151 * x + 0.1448
R = 0.9999
DL = 0.6863 ppb
BEC = 9.572 ppb

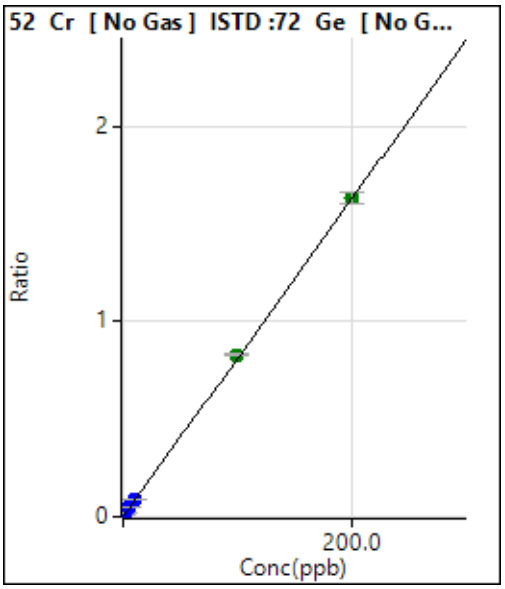
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5348.86	0.0039	P	1.4	
2	☐	2.000	1.845	24299.38	0.0177	P	3.0	-7.8
3	☐	5.000	4.394	50665.66	0.0367	P	2.1	-12.1
4	☐	10.000	9.277	99950.98	0.0730	P	1.9	-7.2
5	☐	100.000	103.210	1049362.98	0.7729	A	2.0	3.2
6	☐	200.000	198.448	2009370.47	1.4825	A	3.2	-0.8

y = 0.0075 * x + 0.0039
R = 0.9998
DL = 0.02159 ppb
BEC = 0.5274 ppb

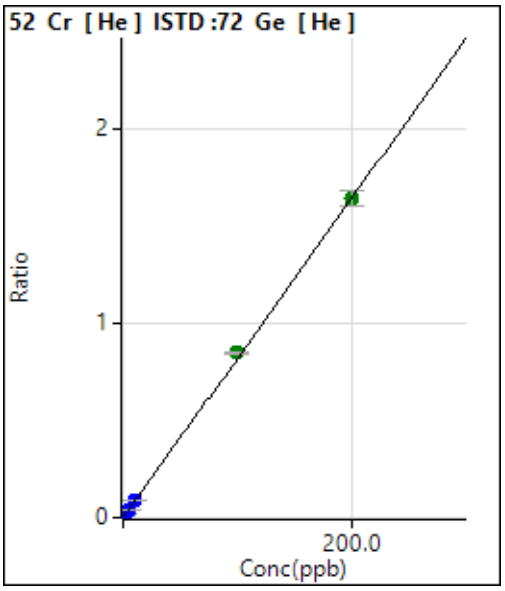
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35085.49	0.0083	P	1.7	
2	☐	2.000	1.985	103597.00	0.0244	P	1.5	-0.8
3	☐	5.000	4.785	200568.54	0.0472	P	1.6	-4.3
4	☐	10.000	9.661	370607.33	0.0870	P	2.1	-3.4
5	☐	100.000	100.617	3514075.05	0.8280	A	1.2	0.6
6	☐	200.000	199.714	6761341.56	1.6353	A	3.2	-0.1

y = 0.0081 * x + 0.0083
R = 1.0000
DL = 0.05048 ppb
BEC = 1.014 ppb

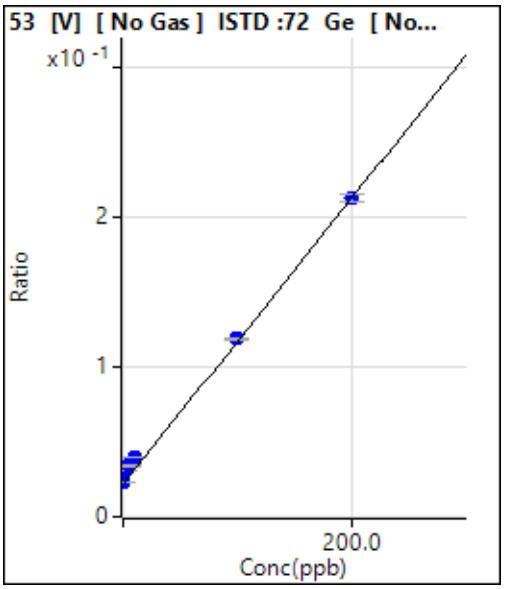
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9339.98	0.0069	P	3.5	
2	☐	2.000	1.933	31316.14	0.0228	P	3.0	-3.3
3	☐	5.000	4.514	60825.43	0.0440	P	1.8	-9.7
4	☐	10.000	9.515	116563.89	0.0852	P	1.3	-4.8
5	☐	100.000	102.203	1151535.56	0.8481	A	2.0	2.2
6	☐	200.000	198.935	2228180.75	1.6443	A	4.6	-0.5

y = 0.0082 * x + 0.0069
R = 0.9999
DL = 0.08869 ppb
BEC = 0.8337 ppb

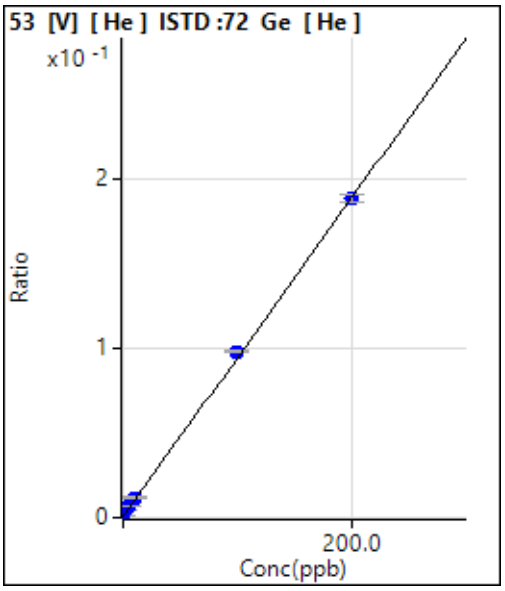
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97255.00	0.0229	P	2.9	
2	☐	2.000	8.603	131872.38	0.0311	P	0.9	330.1
3	☐	5.000	11.926	145468.47	0.0343	P	2.7	138.5
4	☐	10.000	17.543	168826.61	0.0396	P	0.4	75.4
5	☐	100.000	100.610	503778.47	0.1187	P	1.3	0.6
6	☐	200.000	199.079	878550.56	0.2125	P	2.4	-0.5

y = 9.5214E-004 * x + 0.0229
R = 0.9993
DL = 2.117 ppb
BEC = 24.06 ppb

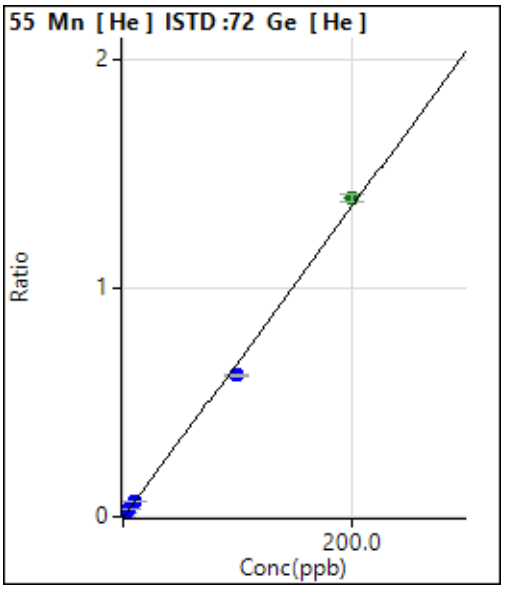
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2246.90	0.0017	P	2.9	
2	☐	2.000	2.533	5551.24	0.0040	P	2.2	26.7
3	☐	5.000	5.106	8923.05	0.0065	P	1.6	2.1
4	☐	10.000	10.849	16236.57	0.0119	P	2.5	8.5
5	☐	100.000	102.483	133241.75	0.0981	P	1.0	2.5
6	☐	200.000	198.708	255830.44	0.1887	P	2.5	-0.6

y = 9.4143E-004 * x + 0.0017
R = 0.9999
DL = 0.1517 ppb
BEC = 1.753 ppb

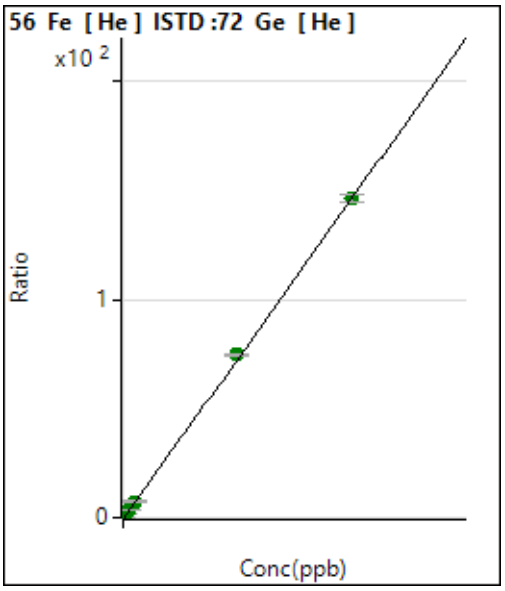
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3400.48	0.0025	P	7.3	
2	☐	2.000	1.723	19557.66	0.0142	P	2.8	-13.9
3	☐	5.000	4.361	44482.68	0.0322	P	2.0	-12.8
4	☐	10.000	8.984	87113.74	0.0637	P	1.5	-10.2
5	☐	100.000	90.667	841517.77	0.6198	P	1.0	-9.3
6	☐	200.000	204.736	1892878.62	1.3963	A	2.4	2.4

y = 0.0068 * x + 0.0025
R = 0.9985
DL = 0.08082 ppb
BEC = 0.3667 ppb

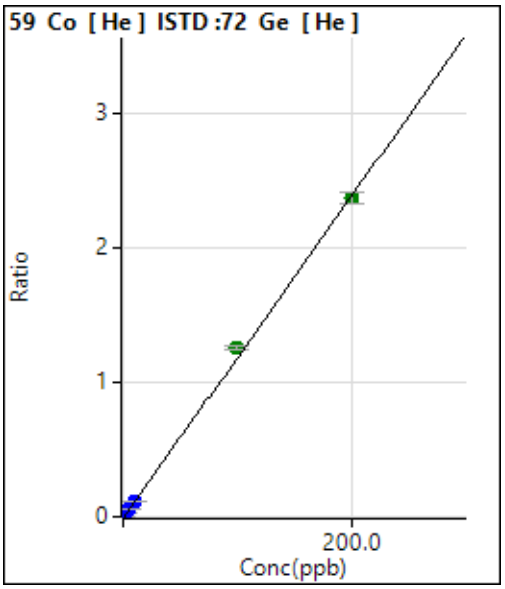
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50433.56	0.0370	P	1.2	
2	☐	200.000	202.765	2097319.14	1.5257	A	4.7	1.4
3	☐	500.000	486.133	4982479.40	3.6060	A	2.2	-2.8
4	☐	1000.000	1012.853	10226031.10	7.4730	A	1.2	1.3
5	☐	10000.00	10150.41	101227901.8	74.5568	A	1.9	1.5
6	☐	20000.00	19924.47	198353130.3	146.313	A	2.1	-0.4

y = 0.0073 * x + 0.0370
R = 1.0000
DL = 0.187 ppb
BEC = 5.046 ppb

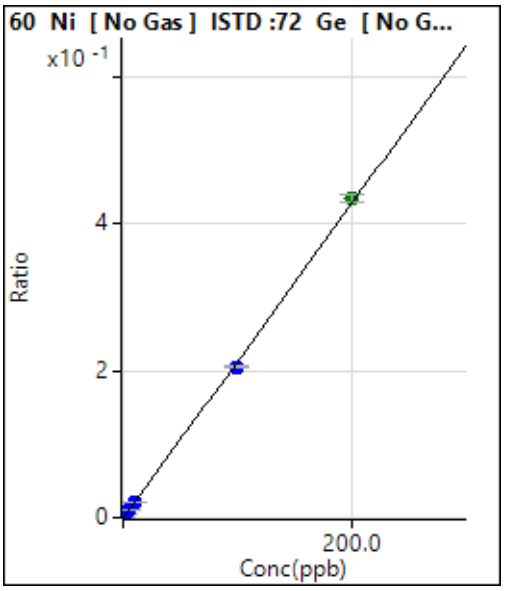
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0002	P	2.7	
2	☐	2.000	1.876	31179.53	0.0227	P	2.6	-6.2
3	☐	5.000	4.587	76246.34	0.0552	P	2.4	-8.3
4	☐	10.000	9.798	161011.34	0.1177	P	1.4	-2.0
5	☐	100.000	104.592	1703016.48	1.2543	A	1.9	4.6
6	☐	200.000	197.726	3214112.66	2.3710	A	4.0	-1.1

y = 0.0120 * x + 1.8359E-004
R = 0.9996
DL = 0.001259 ppb
BEC = 0.01531 ppb

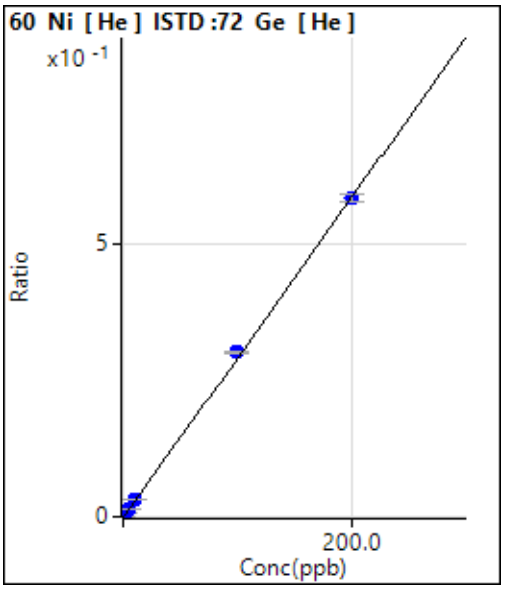
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3840.61	0.0009	P	6.6	
2	☐	2.000	1.885	20976.50	0.0049	P	1.4	-5.7
3	☐	5.000	4.801	47539.75	0.0112	P	1.2	-4.0
4	☐	10.000	9.635	91889.34	0.0216	P	2.4	-3.6
5	☐	100.000	95.380	871673.74	0.2054	P	1.8	-4.6
6	☐	200.000	202.334	1797677.79	0.4347	A	1.9	1.2

y = 0.0021 * x + 9.0519E-004
R = 0.9996
DL = 0.08371 ppb
BEC = 0.4222 ppb

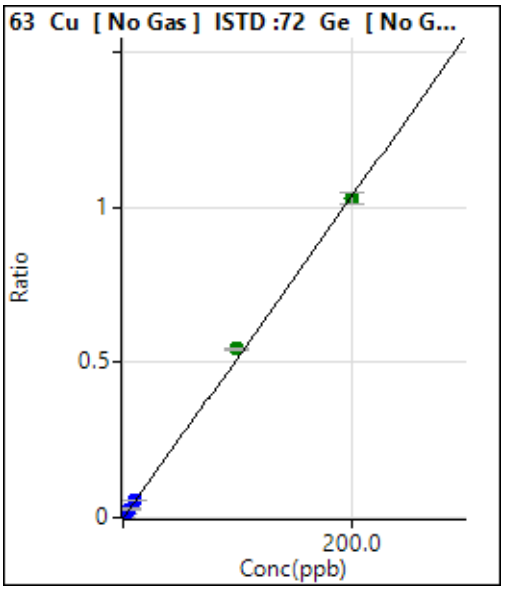
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1243.41	0.0009	P	9.2	
2	☐	2.000	1.924	9003.14	0.0065	P	1.9	-3.8
3	☐	5.000	4.966	21353.74	0.0155	P	1.6	-0.7
4	☐	10.000	10.157	41948.25	0.0307	P	1.5	1.6
5	☐	100.000	102.600	409182.51	0.3014	P	1.0	2.6
6	☐	200.000	198.694	789909.16	0.5828	P	3.0	-0.7

y = 0.0029 * x + 9.1263E-004
R = 0.9999
DL = 0.08618 ppb
BEC = 0.3117 ppb

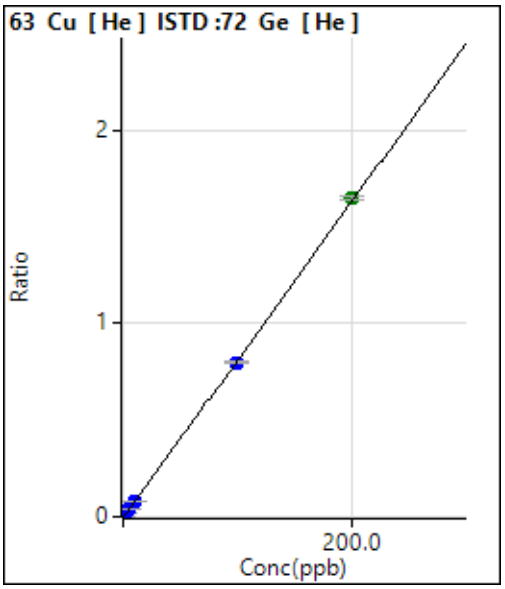
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11161.43	0.0026	P	0.8	
2	☐	2.000	2.003	55225.65	0.0130	P	1.7	0.2
3	☐	5.000	4.845	117919.35	0.0278	P	1.6	-3.1
4	☐	10.000	9.814	228255.23	0.0536	P	2.6	-1.9
5	☐	100.000	104.132	2304797.62	0.5431	A	2.1	4.1
6	☐	200.000	197.947	4258630.46	1.0300	A	4.1	-1.0

y = 0.0052 * x + 0.0026
R = 0.9997
DL = 0.01246 ppb
BEC = 0.5064 ppb

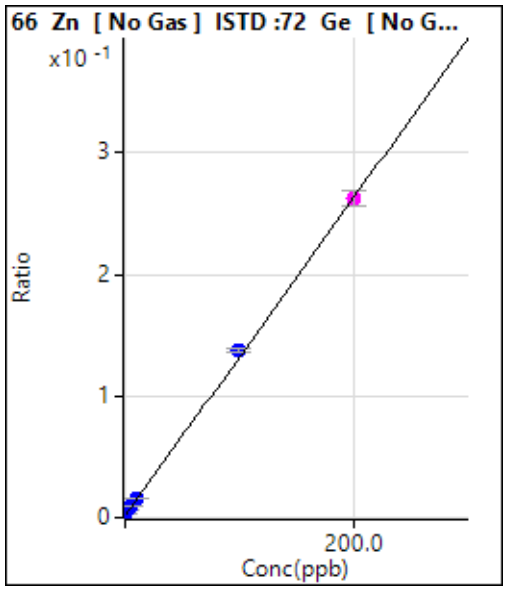
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1843.50	0.0014	P	10.8	
2	☐	2.000	1.833	22462.33	0.0163	P	6.3	-8.4
3	☐	5.000	4.600	53840.51	0.0390	P	2.4	-8.0
4	☐	10.000	9.719	110604.91	0.0808	P	1.8	-2.8
5	☐	100.000	97.257	1081698.94	0.7967	P	0.9	-2.7
6	☐	200.000	201.397	2234656.84	1.6482	A	1.6	0.7

y = 0.0082 * x + 0.0014
R = 0.9999
DL = 0.05383 ppb
BEC = 0.1657 ppb

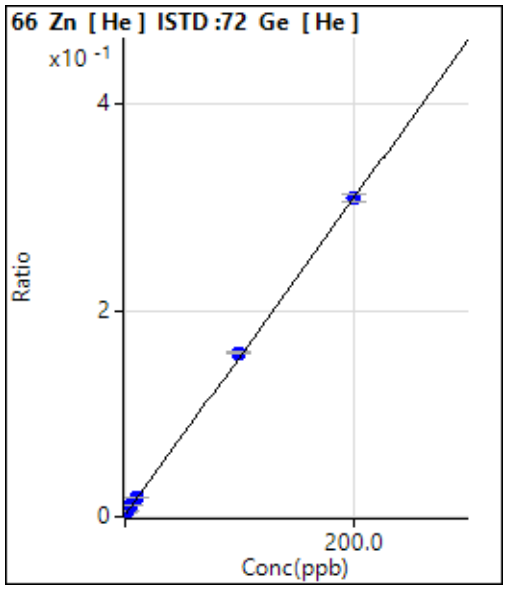
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12375.84	0.0029	P	0.5	
2	☐	2.000	2.067	23827.92	0.0056	P	2.2	3.4
3	☐	5.000	5.534	43122.28	0.0102	P	0.9	10.7
4	☐	10.000	10.327	70023.89	0.0164	P	1.2	3.3
5	☐	100.000	102.806	583399.30	0.1375	P	1.8	2.8
6	☐	200.000	198.567	1086543.37	0.2628	M	4.3	-0.7

y = 0.0013 * x + 0.0029
R = 0.9999
DL = 0.03453 ppb
BEC = 2.227 ppb

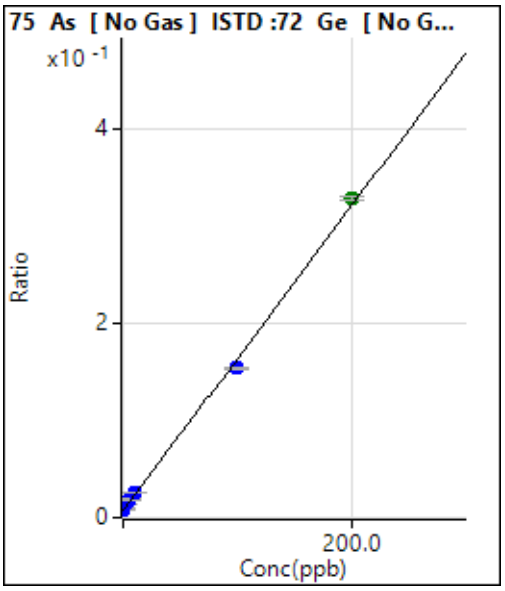
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4324.10	0.0032	P	6.2	
2	☐	2.000	2.031	8649.60	0.0063	P	7.1	1.5
3	☐	5.000	5.467	15986.40	0.0116	P	6.9	9.3
4	☐	10.000	9.819	24980.06	0.0183	P	1.4	-1.8
5	☐	100.000	101.516	215996.14	0.1591	P	1.6	1.5
6	☐	200.000	199.239	419145.35	0.3092	P	2.2	-0.4

y = 0.0015 * x + 0.0032
R = 1.0000
DL = 0.383 ppb
BEC = 2.067 ppb

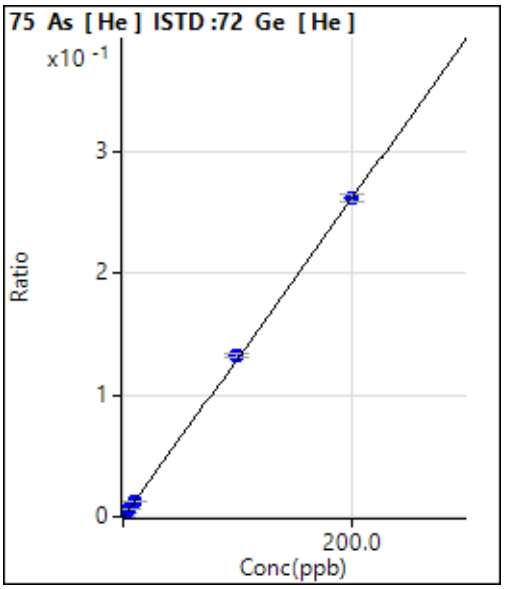
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37472.47	0.0088	P	4.6	
2	☐	2.000	3.563	61208.67	0.0144	P	1.5	78.1
3	☐	5.000	6.324	79731.52	0.0188	P	2.2	26.5
4	☐	10.000	11.312	113498.35	0.0266	P	0.8	13.1
5	☐	100.000	92.247	653577.65	0.1540	P	0.6	-7.8
6	☐	200.000	203.762	1362654.25	0.3295	A	1.7	1.9

y = 0.0016 * x + 0.0088
R = 0.9988
DL = 0.7714 ppb
BEC = 5.611 ppb

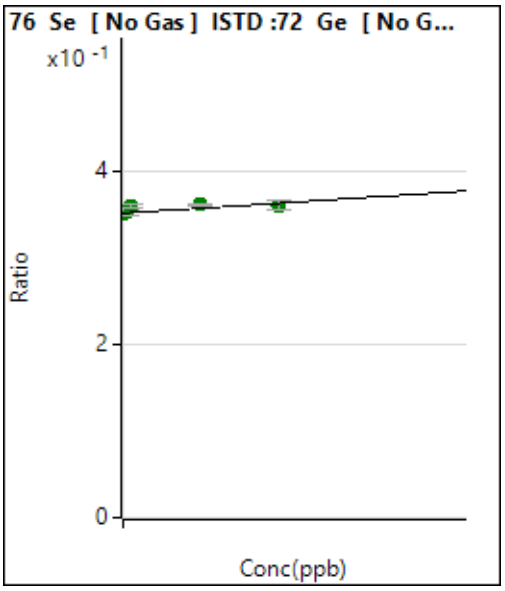
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	372.23	0.0003	P	9.4	
2	☐	2.000	1.891	3782.77	0.0028	P	4.4	-5.4
3	☐	5.000	4.759	8994.15	0.0065	P	3.0	-4.8
4	☐	10.000	9.751	17856.32	0.0130	P	1.5	-2.5
5	☐	100.000	101.040	180103.89	0.1327	P	1.9	1.0
6	☐	200.000	199.500	354662.82	0.2617	P	2.8	-0.3

y = 0.0013 * x + 2.7358E-004
R = 1.0000
DL = 0.05893 ppb
BEC = 0.2088 ppb

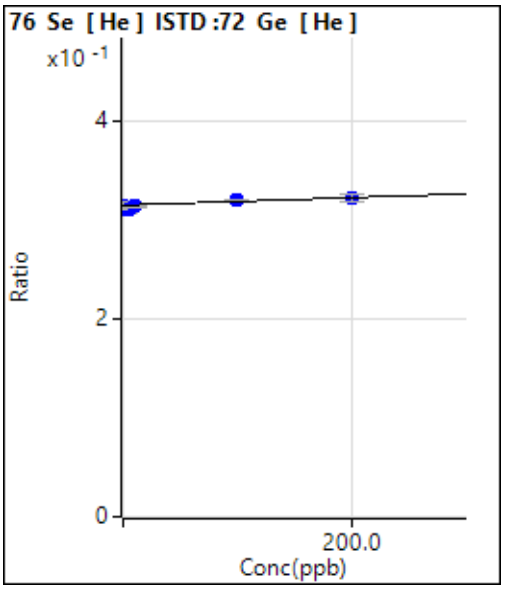
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1494165.45	0.3519	A	1.8	
2	☐	2.000	44.884	1503363.83	0.3546	A	0.8	2144.2
3	☐	5.000	11.091	1496781.80	0.3526	A	2.4	121.8
4	☐	10.000	145.124	1536089.46	0.3605	A	1.6	1351.2
5	☐	100.000	164.856	1534796.90	0.3616	A	1.0	64.9
6	☐	200.000	160.235	1494074.09	0.3613	A	3.0	-19.9

y = 5.8808E-005 * x + 0.3519
R = 0.7067
DL = 321.8 ppb
BEC = 5984 ppb

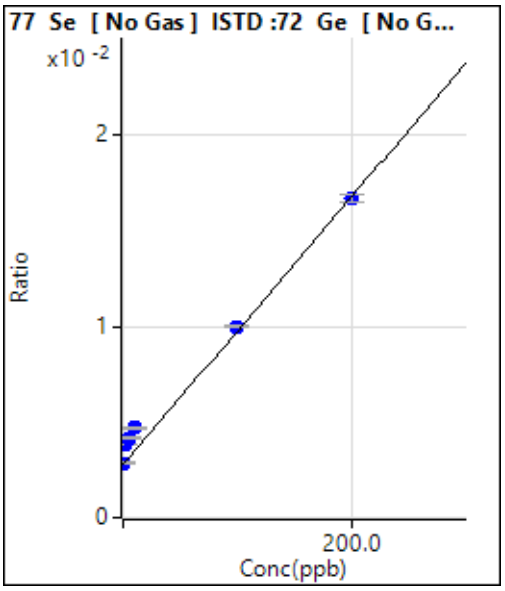
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	427751.36	0.3142	P	2.3	
2	☐	2.000	-104.193	426520.64	0.3102	P	3.2	-5309.7
3	☐	5.000	-112.144	428234.81	0.3099	P	0.4	-2342.9
4	☐	10.000	-29.096	428478.57	0.3131	P	0.4	-391.0
5	☐	100.000	132.726	433672.81	0.3194	P	0.5	32.7
6	☐	200.000	189.583	436023.20	0.3216	P	1.9	-5.2

y = 3.8747E-005 * x + 0.3142
R = 0.9095
DL = 566.2 ppb
BEC = 8110 ppb

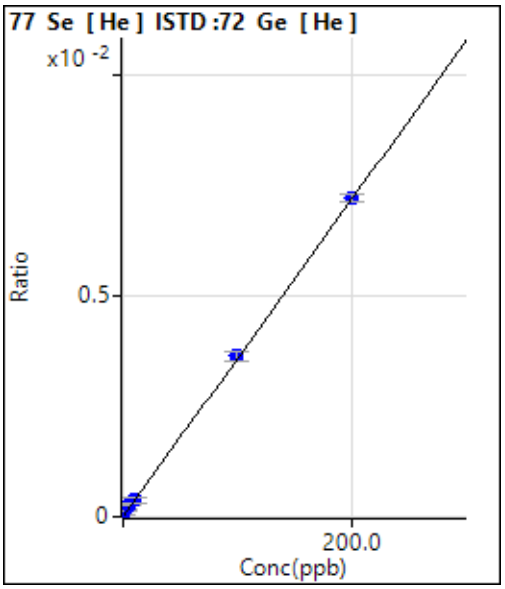
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12159.02	0.0029	P	2.2	
2	☐	2.000	13.680	16200.05	0.0038	P	2.3	584.0
3	☐	5.000	18.579	17675.19	0.0042	P	2.0	271.6
4	☐	10.000	26.237	20025.23	0.0047	P	2.1	162.4
5	☐	100.000	102.078	42457.30	0.0100	P	1.3	2.1
6	☐	200.000	197.693	69030.65	0.0167	P	1.8	-1.2

y = 6.9938E-005 * x + 0.0029
R = 0.9971
DL = 2.709 ppb
BEC = 40.95 ppb

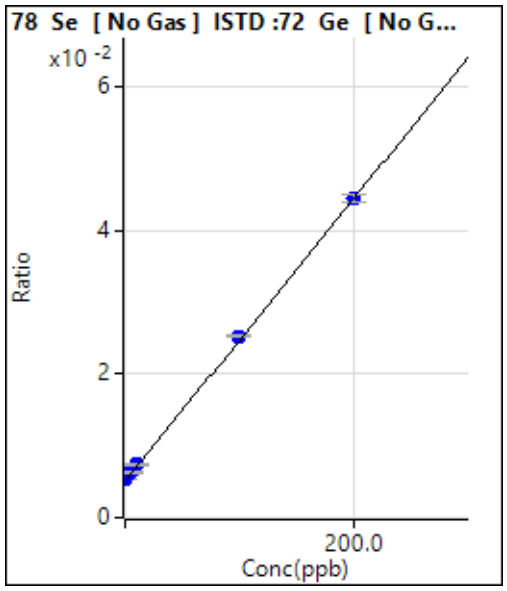
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	12.0	
2	☐	2.000	3.307	216.68	0.0002	P	12.3	65.4
3	☐	5.000	6.175	360.01	0.0003	P	8.4	23.5
4	☐	10.000	9.307	510.02	0.0004	P	27.8	-6.9
5	☐	100.000	100.104	4924.32	0.0036	P	5.6	0.1
6	☐	200.000	199.940	9777.05	0.0072	P	2.6	0.0

y = 3.5846E-005 * x + 3.9208E-005
R = 1.0000
DL = 0.3925 ppb
BEC = 1.094 ppb

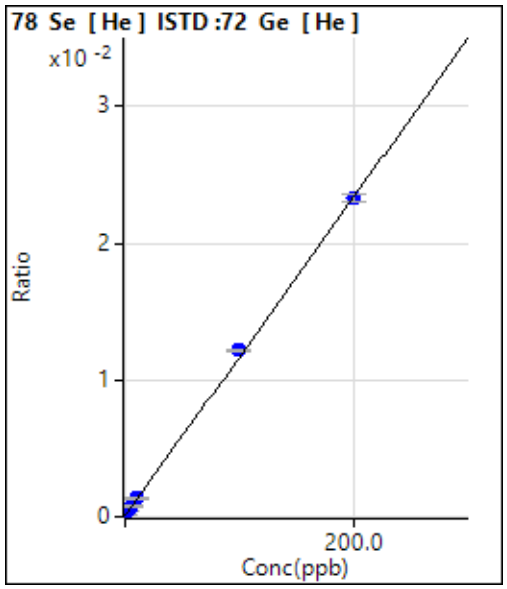
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22589.32	0.0053	P	1.9	
2	☐	2.000	2.625	24739.73	0.0058	P	2.5	31.2
3	☐	5.000	5.011	26756.96	0.0063	P	2.1	0.2
4	☐	10.000	10.579	31517.20	0.0074	P	2.6	5.8
5	☐	100.000	101.283	106912.61	0.0252	P	1.2	1.3
6	☐	200.000	199.323	183736.33	0.0444	P	2.5	-0.3

y = 1.9621E-004 * x + 0.0053
R = 1.0000
DL = 1.521 ppb
BEC = 27.11 ppb

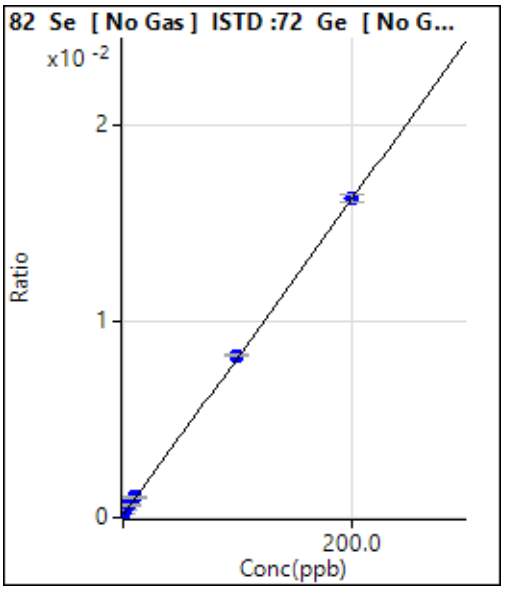
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.00	0.0002	P	8.3	
2	☐	2.000	1.886	564.68	0.0004	P	5.1	-5.7
3	☐	5.000	4.811	1038.04	0.0008	P	6.9	-3.8
4	☐	10.000	9.945	1846.13	0.0013	P	2.3	-0.5
5	☐	100.000	102.996	16546.86	0.0122	P	1.3	3.0
6	☐	200.000	198.511	31598.28	0.0233	P	2.7	-0.7

y = 1.1647E-004 * x + 1.9086E-004
R = 0.9998
DL = 0.4058 ppb
BEC = 1.639 ppb

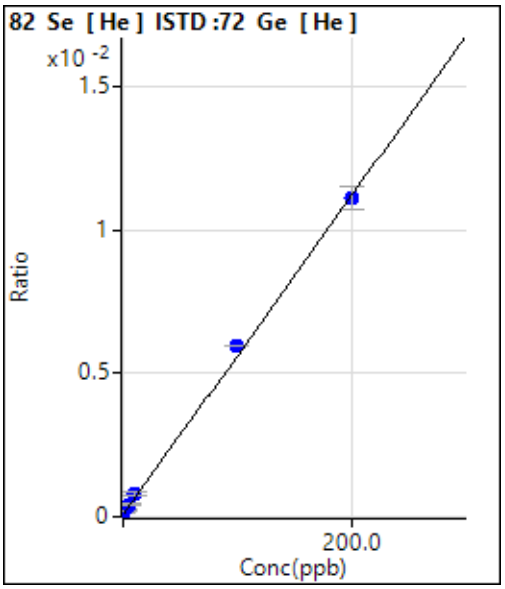
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0002	P	3.3	
2	☐	2.000	2.138	1533.45	0.0004	P	8.0	6.9
3	☐	5.000	5.728	2763.68	0.0007	P	4.3	14.6
4	☐	10.000	10.450	4397.47	0.0010	P	3.0	4.5
5	☐	100.000	100.459	35169.87	0.0083	P	1.8	0.5
6	☐	200.000	199.728	67365.52	0.0163	P	1.9	-0.1

y = 8.0613E-005 * x + 1.8926E-004
R = 1.0000
DL = 0.2358 ppb
BEC = 2.348 ppb

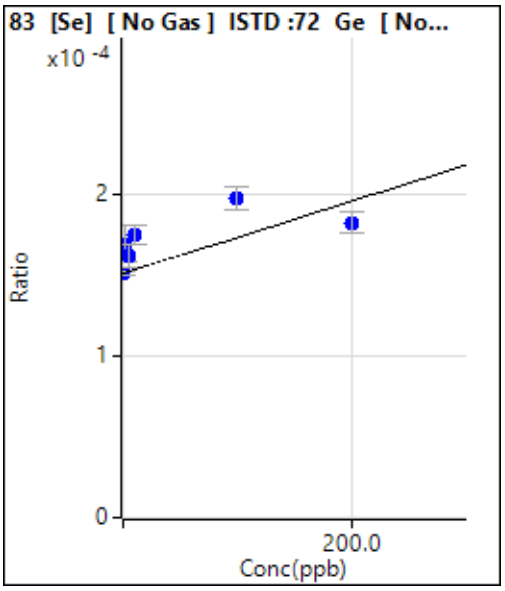
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	19.2	
2	☐	2.000	2.205	346.68	0.0003	P	18.2	10.2
3	☐	5.000	5.428	596.69	0.0004	P	9.6	8.6
4	☐	10.000	11.861	1080.06	0.0008	P	16.3	18.6
5	☐	100.000	104.820	8095.91	0.0060	P	1.0	4.8
6	☐	200.000	197.484	15062.05	0.0111	P	7.2	-1.3

y = 5.5645E-005 * x + 1.2968E-004
R = 0.9996
DL = 1.345 ppb
BEC = 2.33 ppb

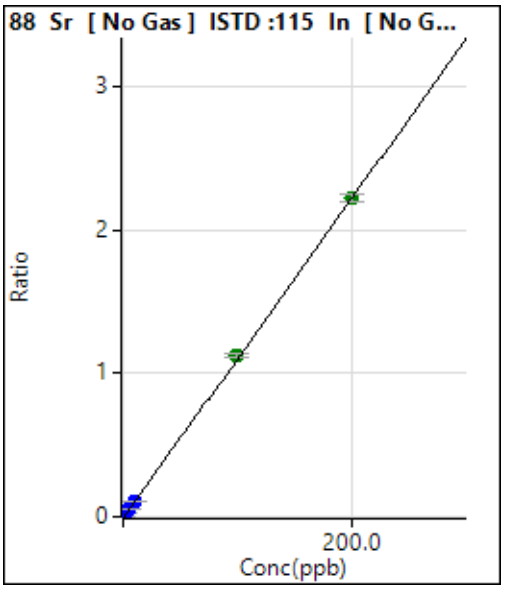
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	643.36	0.0002	P	1.8	
2	☐	2.000	81.318	720.03	0.0002	P	12.8	3965.9
3	☐	5.000	49.102	690.03	0.0002	P	8.9	882.0
4	☐	10.000	105.851	746.70	0.0002	P	6.6	958.5
5	☐	100.000	206.708	840.05	0.0002	P	7.4	106.7
6	☐	200.000	139.958	756.70	0.0002	P	7.7	-30.0

y = 2.2406E-007 * x + 1.5152E-004
R = 0.6573
DL = 36.8 ppb
BEC = 676.2 ppb

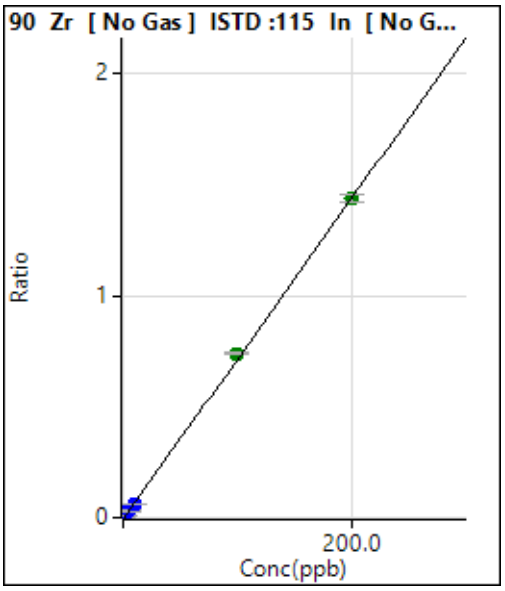
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3557.22	0.0007	P	2.0	
2	☐	2.000	1.826	103385.01	0.0211	P	1.4	-8.7
3	☐	5.000	4.524	254121.01	0.0513	P	3.3	-9.5
4	☐	10.000	9.304	522297.47	0.1046	P	1.3	-7.0
5	☐	100.000	101.289	5520538.04	1.1317	A	2.1	1.3
6	☐	200.000	199.404	10599502.34	2.2273	A	1.8	-0.3

y = 0.0112 * x + 7.3513E-004
R = 1.0000
DL = 0.003897 ppb
BEC = 0.06584 ppb

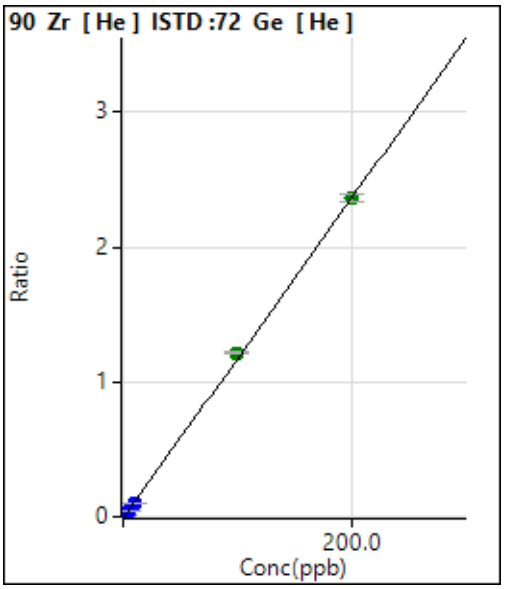
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1776.82	0.0004	P	5.1	
2	☐	2.000	1.596	58317.70	0.0119	P	1.6	-20.2
3	☐	5.000	4.177	151634.72	0.0306	P	2.8	-16.5
4	☐	10.000	8.798	319547.09	0.0640	P	2.4	-12.0
5	☐	100.000	102.159	3606591.92	0.7394	A	0.8	2.2
6	☐	200.000	199.005	6853161.98	1.4400	A	1.9	-0.5

y = 0.0072 * x + 3.6715E-004
R = 0.9999
DL = 0.007741 ppb
BEC = 0.05075 ppb

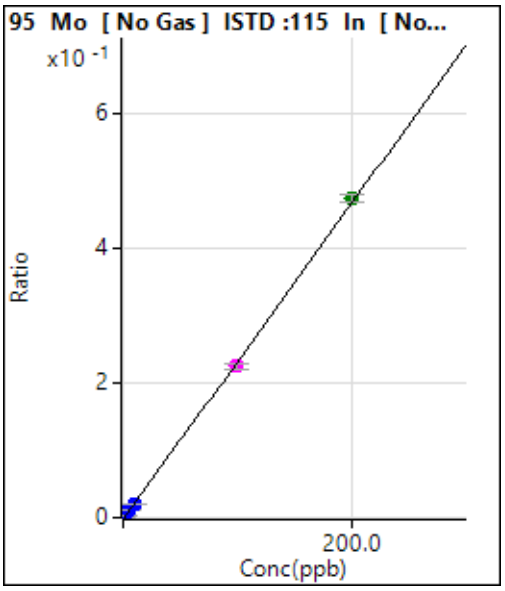
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.77	0.0011	P	9.2	
2	☐	2.000	1.545	26707.10	0.0194	P	5.5	-22.7
3	☐	5.000	3.929	65926.53	0.0477	P	1.8	-21.4
4	☐	10.000	8.442	138563.37	0.1013	P	2.0	-15.6
5	☐	100.000	102.048	1645724.87	1.2120	A	1.1	2.0
6	☐	200.000	199.085	3203688.18	2.3635	A	2.8	-0.5

y = 0.0119 * x + 0.0011
R = 0.9999
DL = 0.02538 ppb
BEC = 0.09196 ppb

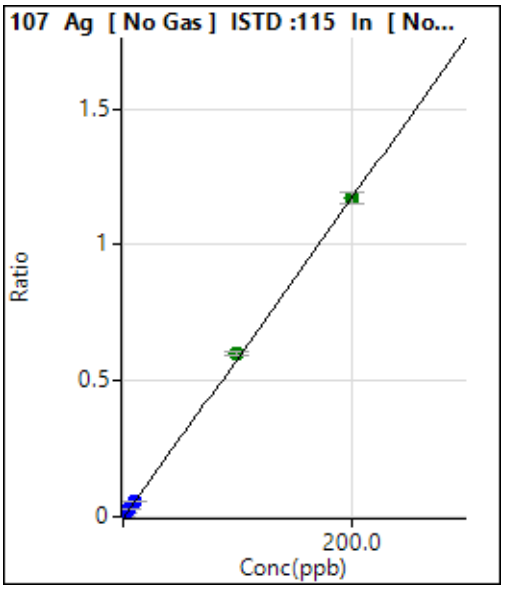
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	25.1	
2	☐	2.000	1.722	20058.74	0.0041	P	2.7	-13.9
3	☐	5.000	4.279	50118.02	0.0101	P	1.2	-14.4
4	☐	10.000	9.028	106134.93	0.0213	P	1.7	-9.7
5	☐	100.000	95.792	1097872.72	0.2251	M	3.1	-4.2
6	☐	200.000	202.173	2260718.19	0.4749	A	2.1	1.1

y = 0.0023 * x + 5.4360E-005
R = 0.9997
DL = 0.01744 ppb
BEC = 0.02314 ppb

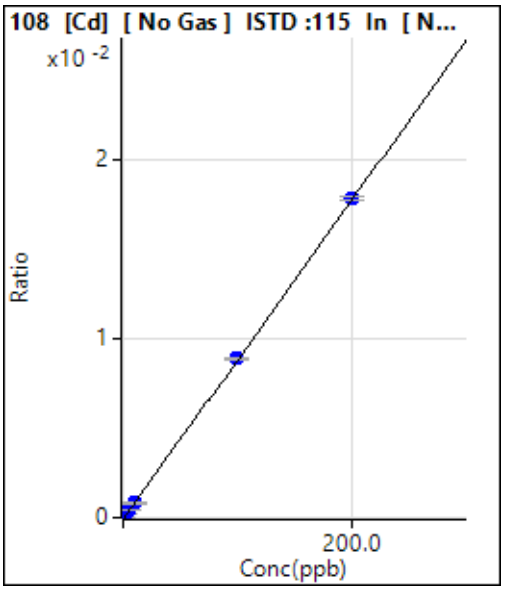
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.69	0.0001	P	18.0	
2	☐	2.000	1.799	52531.34	0.0107	P	0.7	-10.0
3	☐	5.000	4.470	131219.09	0.0265	P	2.4	-10.6
4	☐	10.000	9.132	269181.78	0.0539	P	2.0	-8.7
5	☐	100.000	101.903	2928084.54	0.6003	A	3.2	1.9
6	☐	200.000	199.107	5580571.17	1.1728	A	3.6	-0.4

y = 0.0059 * x + 1.3569E-004
R = 0.9999
DL = 0.01243 ppb
BEC = 0.02304 ppb

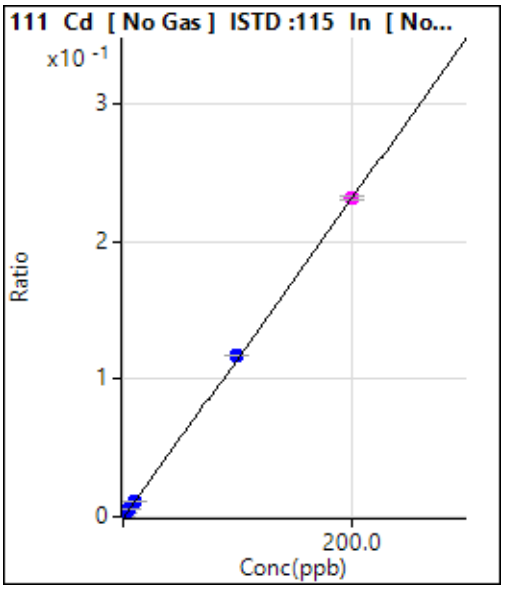
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.	
2	☐	2.000	2.113	926.72	0.0002	P	4.2	5.6
3	☐	5.000	4.882	2160.22	0.0004	P	12.9	-2.4
4	☐	10.000	9.486	4217.41	0.0008	P	12.2	-5.1
5	☐	100.000	99.538	43204.52	0.0089	P	2.3	-0.5
6	☐	200.000	200.259	84805.06	0.0178	P	1.5	0.1

y = 8.8970E-005 * x + 1.3683E-006
R = 1.0000
DL = 0.07992 ppb
BEC = 0.01538 ppb

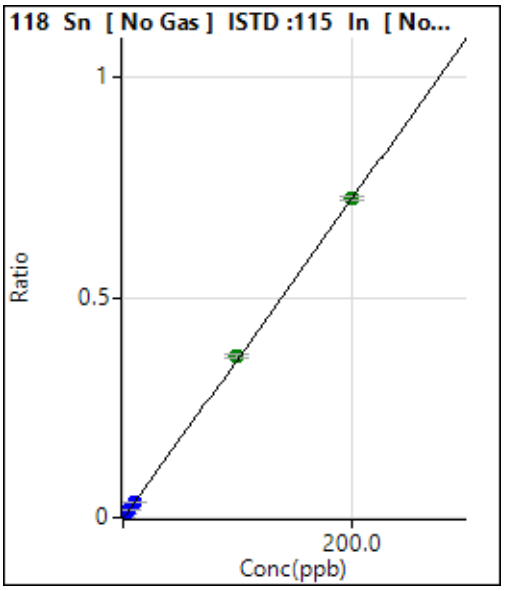
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	34.0	
2	☐	2.000	1.979	11278.34	0.0023	P	2.7	-1.1
3	☐	5.000	4.888	28173.83	0.0057	P	2.8	-2.2
4	☐	10.000	9.892	57368.49	0.0115	P	1.4	-1.1
5	☐	100.000	101.063	572377.83	0.1173	P	0.8	1.1
6	☐	200.000	199.477	1102376.78	0.2316	M	0.8	-0.3

y = 0.0012 * x + 6.8757E-006
R = 1.0000
DL = 0.006044 ppb
BEC = 0.005922 ppb

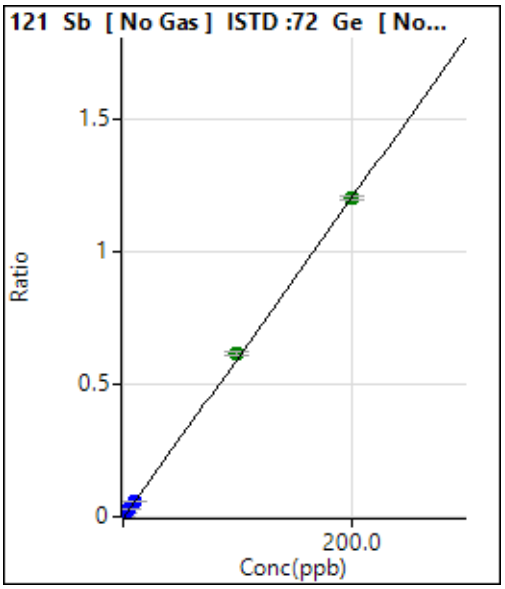
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3800.62	0.0008	P	5.7	
2	☐	2.000	1.833	36441.04	0.0074	P	0.7	-8.3
3	☐	5.000	4.481	84595.79	0.0171	P	4.0	-10.4
4	☐	10.000	9.229	171291.56	0.0343	P	1.4	-7.7
5	☐	100.000	101.097	1795315.70	0.3680	A	2.8	1.1
6	☐	200.000	199.504	3453474.22	0.7255	A	1.2	-0.2

y = 0.0036 * x + 7.8548E-004
R = 1.0000
DL = 0.03696 ppb
BEC = 0.2162 ppb

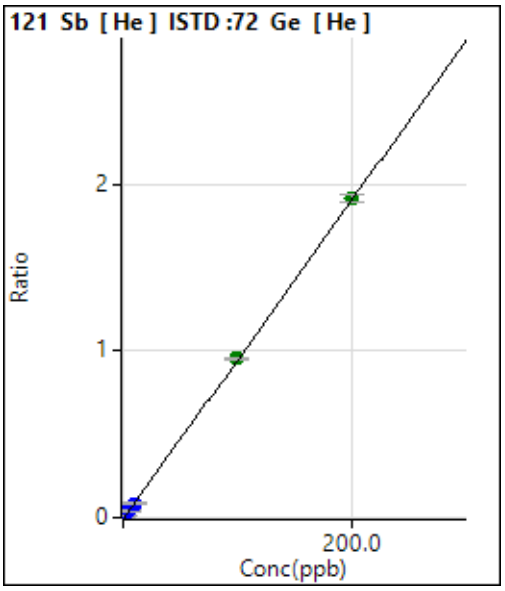
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	480.02	0.0001	P	11.5	
2	☐	2.000	1.854	48071.79	0.0113	P	3.5	-7.3
3	☐	5.000	4.588	118398.95	0.0279	P	2.8	-8.2
4	☐	10.000	9.463	244576.55	0.0574	P	2.7	-5.4
5	☐	100.000	102.070	2622447.93	0.6180	A	2.1	2.1
6	☐	200.000	199.004	4982773.26	1.2047	A	0.9	-0.5

y = 0.0061 * x + 1.1303E-004
R = 0.9999
DL = 0.006446 ppb
BEC = 0.01867 ppb

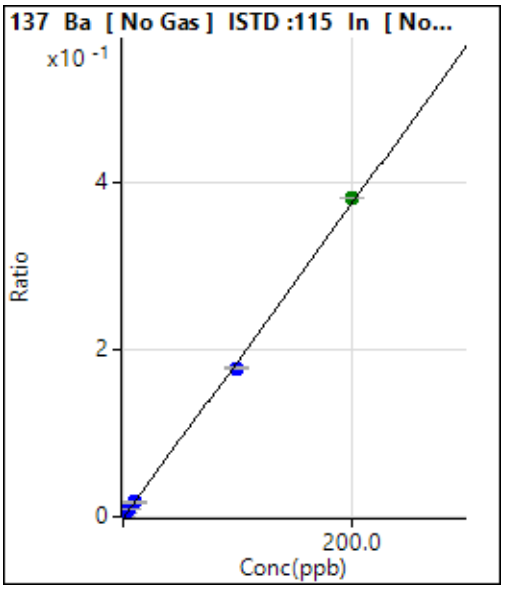
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0002	P	15.6	
2	☐	2.000	1.707	22723.50	0.0165	P	4.3	-14.6
3	☐	5.000	4.250	56474.95	0.0409	P	2.9	-15.0
4	☐	10.000	8.942	117395.96	0.0858	P	2.1	-10.6
5	☐	100.000	99.599	1295000.24	0.9537	A	0.3	-0.4
6	☐	200.000	200.275	2599595.79	1.9175	A	2.6	0.1

y = 0.0096 * x + 1.8387E-004
R = 1.0000
DL = 0.008984 ppb
BEC = 0.01921 ppb

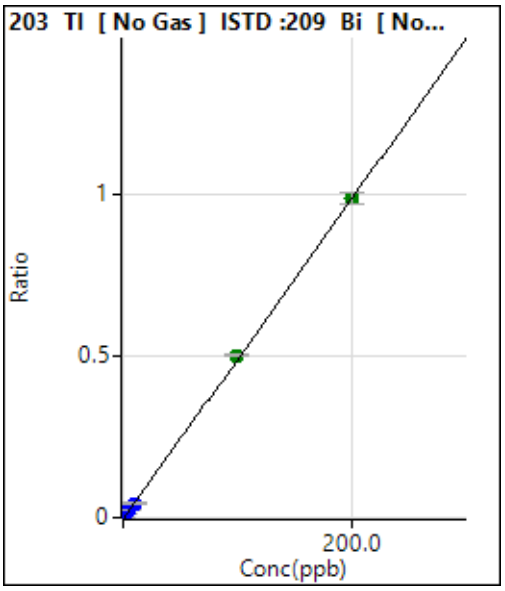
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0001	P	9.7	
2	☐	2.000	1.821	17415.35	0.0036	P	0.8	-8.9
3	☐	5.000	4.465	42329.40	0.0085	P	2.8	-10.7
4	☐	10.000	9.149	86635.31	0.0174	P	2.3	-8.5
5	☐	100.000	94.618	869612.90	0.1783	P	1.0	-5.4
6	☐	200.000	202.749	1817666.80	0.3819	A	0.6	1.4

y = 0.0019 * x + 1.2959E-004
R = 0.9995
DL = 0.01996 ppb
BEC = 0.06883 ppb

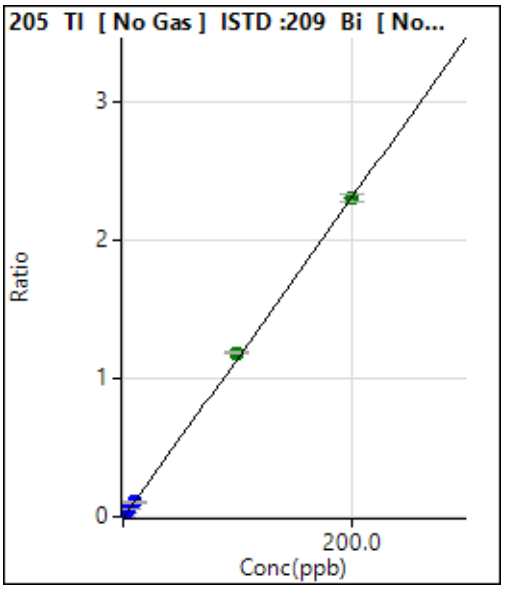
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	380.01	0.0001	P	23.9	
2	☐	2.000	1.820	41241.89	0.0091	P	2.2	-9.0
3	☐	5.000	4.601	104425.58	0.0229	P	6.7	-8.0
4	☐	10.000	8.891	203781.26	0.0441	P	3.4	-11.1
5	☐	100.000	101.297	2245440.12	0.5019	A	0.5	1.3
6	☐	200.000	199.419	4309066.29	0.9879	A	3.2	-0.3

y = 0.0050 * x + 8.4820E-005
R = 1.0000
DL = 0.01227 ppb
BEC = 0.01712 ppb

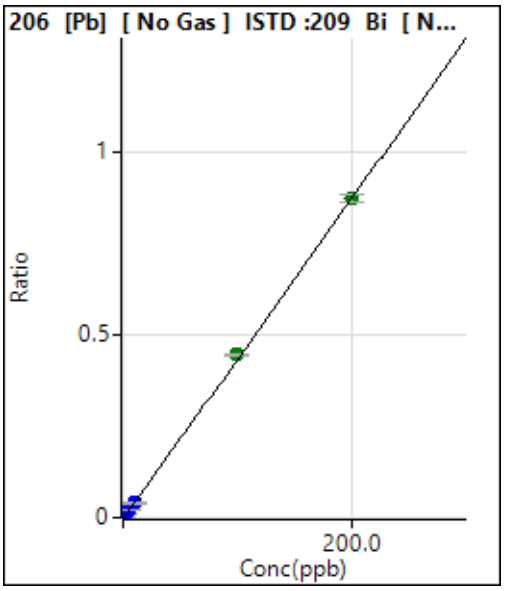
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	7.4	
2	☐	2.000	1.861	98401.05	0.0217	P	1.3	-7.0
3	☐	5.000	4.679	247978.48	0.0543	P	5.6	-6.4
4	☐	10.000	9.084	486110.03	0.1053	P	2.8	-9.2
5	☐	100.000	102.150	5286901.38	1.1817	A	1.1	2.1
6	☐	200.000	198.980	10038930.68	2.3017	A	2.3	-0.5

y = 0.0116 * x + 1.8881E-004
R = 0.9999
DL = 0.003635 ppb
BEC = 0.01632 ppb

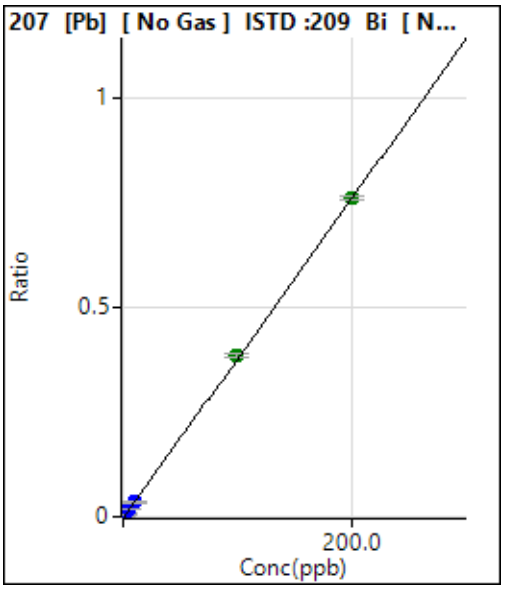
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	743.37	0.0002	P	10.6	
2	☐	2.000	1.800	36610.72	0.0081	P	1.1	-10.0
3	☐	5.000	4.456	90170.00	0.0197	P	6.3	-10.9
4	☐	10.000	9.031	184063.29	0.0399	P	1.5	-9.7
5	☐	100.000	101.698	2000022.78	0.4471	A	1.3	1.7
6	☐	200.000	199.215	3819130.88	0.8756	A	2.7	-0.4

y = 0.0044 * x + 1.6647E-004
R = 0.9999
DL = 0.012 ppb
BEC = 0.03788 ppb

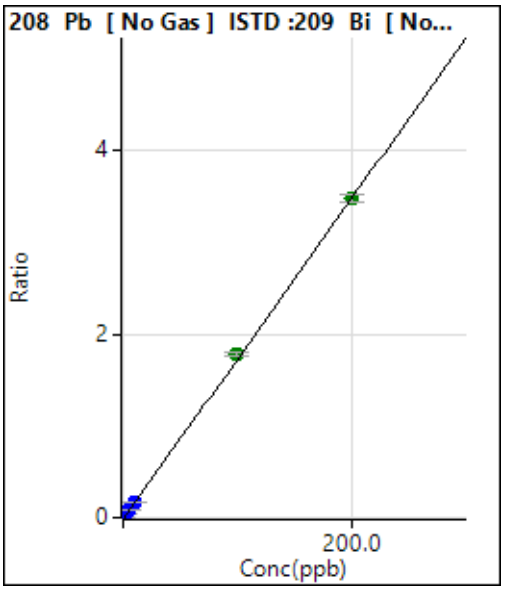
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	540.02	0.0001	P	11.7	
2	☐	2.000	1.784	31393.42	0.0069	P	1.7	-10.8
3	☐	5.000	4.481	78621.88	0.0172	P	3.8	-10.4
4	☐	10.000	9.002	159150.61	0.0345	P	2.8	-10.0
5	☐	100.000	101.224	1728099.51	0.3863	A	2.3	1.2
6	☐	200.000	199.453	3319498.91	0.7610	A	1.7	-0.3

y = 0.0038 * x + 1.2086E-004
R = 1.0000
DL = 0.01112 ppb
BEC = 0.03168 ppb

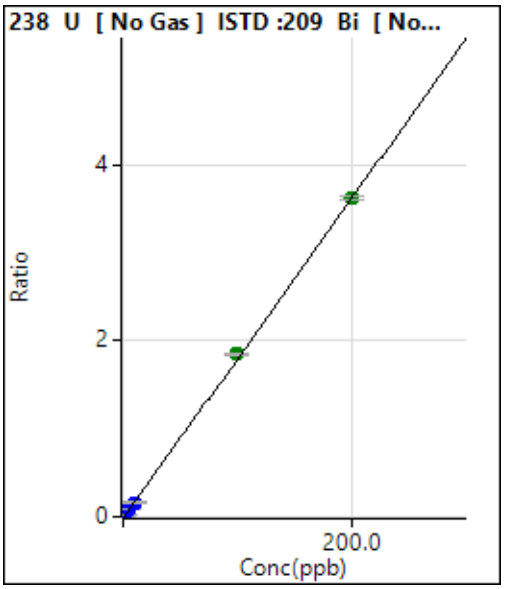
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2650.16	0.0006	P	7.0	
2	☐	2.000	1.804	145817.34	0.0322	P	1.1	-9.8
3	☐	5.000	4.480	360905.67	0.0790	P	3.9	-10.4
4	☐	10.000	9.087	737372.31	0.1597	P	2.2	-9.1
5	☐	100.000	102.035	7993190.97	1.7868	A	1.4	2.0
6	☐	200.000	199.043	15199802.17	3.4849	A	2.7	-0.5

y = 0.0175 * x + 5.9324E-004
R = 0.9999
DL = 0.007151 ppb
BEC = 0.03389 ppb

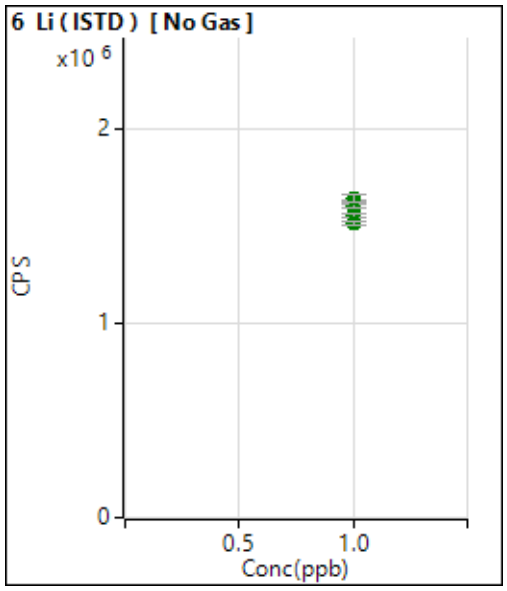
Weight: <None>
Min Conc: <None>



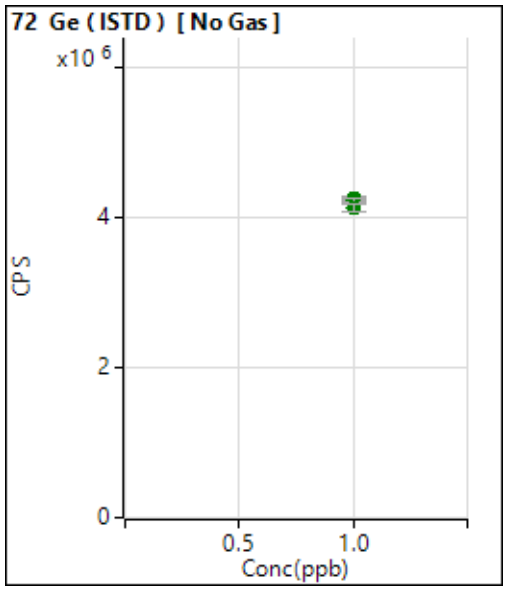
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0001	P	11.0	
2	☐	2.000	1.775	147015.12	0.0324	P	0.3	-11.2
3	☐	5.000	4.381	364616.10	0.0798	P	3.4	-12.4
4	☐	10.000	8.937	751515.69	0.1627	P	1.6	-10.6
5	☐	100.000	101.488	8260452.79	1.8463	A	0.4	1.5
6	☐	200.000	199.327	15816232.26	3.6261	A	1.7	-0.3

y = 0.0182 * x + 1.4091E-004
R = 0.9999
DL = 0.002548 ppb
BEC = 0.007746 ppb

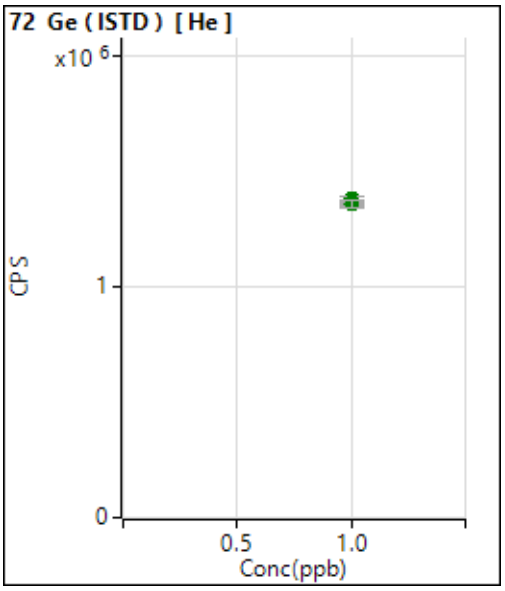
Weight: <None>
Min Conc: <None>



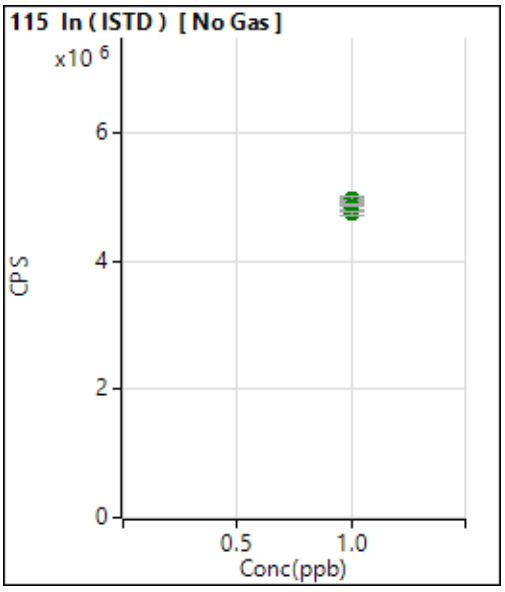
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1626895.79		A	1.0	
2	☐	1.000		1607839.23		A	1.2	
3	☐	1.000		1602391.41		A	1.1	
4	☐	1.000		1643429.61		A	2.3	
5	☐	1.000		1551668.95		A	1.3	
6	☐	1.000		1514899.28		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4246540.46		A	1.9	
2	☐	1.000		4240242.85		A	0.5	
3	☐	1.000		4245415.15		A	0.1	
4	☐	1.000		4261922.85		A	0.8	
5	☐	1.000		4244269.11		A	1.2	
6	☐	1.000		4136479.11		A	2.0	

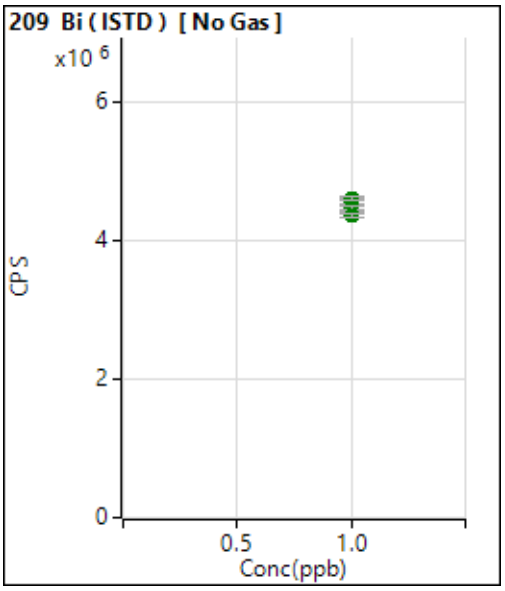


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1361459.30		A	1.3	
2	☐	1.000		1375532.64		A	2.0	
3	☐	1.000		1381892.53		A	0.9	
4	☐	1.000		1368442.27		A	0.5	
5	☐	1.000		1357841.85		A	0.8	
6	☐	1.000		1356148.78		A	2.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4838644.74		A	0.9	
2	☐	1.000		4894003.29		A	0.2	
3	☐	1.000		4959496.00		A	1.2	
4	☐	1.000		4992344.55		A	1.0	
5	☐	1.000		4877629.15		A	0.5	
6	☐	1.000		4759571.71		A	1.3	

Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4469823.16		A	1.6	
2	☐	1.000		4532439.83		A	0.3	
3	☐	1.000		4569890.56		A	2.5	
4	☐	1.000		4619102.01		A	1.2	
5	☐	1.000		4474148.58		A	1.5	
6	☐	1.000		4362308.58		A	1.1	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	012CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:06:23-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	95176	0.00
Be	9	1	No Gas	87	37.85
V	51	2	He	10543	0.03
Cr	52	2	He	13036	0.02
Fe	56	2	He	50025	0.00
Se	78	2	He	236	0.62
As	75	2	He	430	3.43
Ca	44	2	He	1844	0.32
Na	23	2	He	106443	0.00
Mg	24	2	He	1583	0.36
K	39	2	He	147954	0.00
Mn	55	2	He	1487	0.91
Co	59	2	He	167	5.50
Ni	60	2	He	1040	0.72
Cu	63	2	He	1423	0.17
Zn	66	2	He	1533	1.02
Al	27	2	He	10431	0.05
B	11	1	No Gas	13794	0.02
Al	27	1	No Gas	354510	0.00
Si	28	1	No Gas	1429408	0.00
Ag	107	1	No Gas	1053	0.46
Cd	111	1	No Gas	33	226.50
Sr	88	1	No Gas	2430	0.16
Mo	95	1	No Gas	287	5.07
Sn	118	1	No Gas	4177	0.12
Sb	121	1	No Gas	363	3.74
Ba	137	1	No Gas	550	2.06
Tl	205	1	No Gas	803	0.73
Tl	203	1	No Gas	347	1.27
Pb	208	1	No Gas	2503	0.24
U	238	1	No Gas	740	0.37
Ca	43	2	He	73	75.15
Sb	121	2	He	200	25.37
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	3170	0.23

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1709693	2.18
Ge	72	2	He	1348381	0.77
Ge	72	1	No Gas	4032148	0.83
In	115	1	No Gas	4757365	0.65

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4387752	0.60

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:08:43-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	11521	0.02
V	51	2	He	28240	0.01
Cr	52	2	He	33832	0.00
Fe	56	2	He	2036211	0.00
Se	78	2	He	541	0.32
As	75	2	He	3767	0.12
Ca	44	2	He	13607	0.00
Na	23	2	He	398920	0.00
Mg	24	2	He	188110	0.00
K	39	2	He	383048	0.00
Mn	55	2	He	18520	0.02
Co	59	2	He	30568	0.01
Ni	60	2	He	8733	0.02
Cu	63	2	He	21567	0.01
Zn	66	2	He	5555	0.06
Al	27	2	He	11992	0.02
B	11	1	No Gas	43434	0.00
Al	27	1	No Gas	404962	0.00
Si	28	1	No Gas	1552261	0.00
Ag	107	1	No Gas	49583	0.00
Cd	111	1	No Gas	10211	0.01
Sr	88	1	No Gas	98465	0.00
Mo	95	1	No Gas	19471	0.02
Sn	118	1	No Gas	34152	0.00
Sb	121	1	No Gas	43723	0.00
Ba	137	1	No Gas	15970	0.01
Tl	205	1	No Gas	87806	0.00
Tl	203	1	No Gas	36835	0.01
Pb	208	1	No Gas	132344	0.00
U	238	1	No Gas	133077	0.00
Ca	43	2	He	817	1.36
Sb	121	2	He	21611	0.01
Cu	63	1	No Gas	44978	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	1684033	3.72	1709693	98.50	70	120	
Ge	72	2	He	1350236	1.35	1348381	100.14	70	120	
Ge	72	1	No Gas	4060405	1.39	4032148	100.70	70	120	

Calibration Standard Report

In	115	1	No Gas	4797211	0.99	4757365	100.84	70	120	
Bi	209	1	No Gas	4412656	1.57	4387752	100.57	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:11:02-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	28365	0.01
V	51	2	He	53947	0.00
Cr	52	2	He	62590	0.00
Fe	56	2	He	4842804	0.00
Se	78	2	He	1045	0.31
As	75	2	He	8899	0.05
Ca	44	2	He	32125	0.01
Na	23	2	He	899081	0.00
Mg	24	2	He	470990	0.00
K	39	2	He	734986	0.00
Mn	55	2	He	42781	0.00
Co	59	2	He	75949	0.00
Ni	60	2	He	20726	0.01
Cu	63	2	He	51900	0.00
Zn	66	2	He	12479	0.05
Al	27	2	He	14401	0.01
B	11	1	No Gas	86906	0.00
Al	27	1	No Gas	475636	0.00
Si	28	1	No Gas	1770518	0.00
Ag	107	1	No Gas	121997	0.00
Cd	111	1	No Gas	25829	0.01
Sr	88	1	No Gas	240983	0.00
Mo	95	1	No Gas	47923	0.01
Sn	118	1	No Gas	78887	0.00
Sb	121	1	No Gas	109035	0.00
Ba	137	1	No Gas	38935	0.00
Tl	205	1	No Gas	225112	0.00
Tl	203	1	No Gas	95551	0.00
Pb	208	1	No Gas	324935	0.00
U	238	1	No Gas	328263	0.00
Ca	43	2	He	1847	0.80
Sb	121	2	He	55347	0.00
Cu	63	1	No Gas	107470	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	1689084	2.40	1709693	98.79	70	120	
Ge	72	2	He	1347100	1.58	1348381	99.90	70	120	
Ge	72	1	No Gas	4060625	0.14	4032148	100.71	70	120	

Calibration Standard Report

In	115	1	No Gas	4694612	3.45	4757365	98.68	70	120	
Bi	209	1	No Gas	4429635	0.67	4387752	100.95	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:13:21-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	57477	0.00
V	51	2	He	98668	0.00
Cr	52	2	He	113536	0.00
Fe	56	2	He	9668427	0.00
Se	78	2	He	1746	0.23
As	75	2	He	17772	0.01
Ca	44	2	He	62767	0.00
Na	23	2	He	1698264	0.00
Mg	24	2	He	1029798	0.00
K	39	2	He	1426788	0.00
Mn	55	2	He	82009	0.00
Co	59	2	He	153254	0.00
Ni	60	2	He	38789	0.00
Cu	63	2	He	102770	0.00
Zn	66	2	He	22245	0.00
Al	27	2	He	16894	0.01
B	11	1	No Gas	163860	0.00
Al	27	1	No Gas	593458	0.00
Si	28	1	No Gas	2074863	0.00
Ag	107	1	No Gas	246945	0.00
Cd	111	1	No Gas	52428	0.00
Sr	88	1	No Gas	486485	0.00
Mo	95	1	No Gas	97986	0.00
Sn	118	1	No Gas	154206	0.00
Sb	121	1	No Gas	220029	0.00
Ba	137	1	No Gas	78963	0.00
Tl	205	1	No Gas	436691	0.00
Tl	203	1	No Gas	184109	0.00
Pb	208	1	No Gas	658571	0.00
U	238	1	No Gas	662864	0.00
Ca	43	2	He	3711	0.13
Sb	121	2	He	111744	0.00
Cu	63	1	No Gas	211796	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	1685601	0.48	1709693	98.59	70	120	
Ge	72	2	He	1323156	1.88	1348381	98.13	70	120	
Ge	72	1	No Gas	4039532	2.46	4032148	100.18	70	120	

Calibration Standard Report

In	115	1	No Gas	4713863	4.07	4757365	99.09	70	120	
Bi	209	1	No Gas	4430689	1.47	4387752	100.98	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:15:39-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	569044	0.00
V	51	2	He	889993	0.00
Cr	52	2	He	1081762	0.00
Fe	56	2	He	92802279	0.00
Se	78	2	He	15601	0.01
As	75	2	He	168735	0.00
Ca	44	2	He	592697	0.00
Na	23	2	He	14914967	0.00
Mg	24	2	He	9567299	0.00
K	39	2	He	11856042	0.00
Mn	55	2	He	789859	0.00
Co	59	2	He	1567148	0.00
Ni	60	2	He	371534	0.00
Cu	63	2	He	977620	0.00
Zn	66	2	He	196422	0.00
Al	27	2	He	73086	0.00
B	11	1	No Gas	1579668	0.00
Al	27	1	No Gas	2707625	0.00
Si	28	1	No Gas	7654096	0.00
Ag	107	1	No Gas	2455198	0.00
Cd	111	1	No Gas	501064	0.00
Sr	88	1	No Gas	4893615	0.00
Mo	95	1	No Gas	964242	0.00
Sn	118	1	No Gas	1564685	0.00
Sb	121	1	No Gas	2302198	0.00
Ba	137	1	No Gas	761223	0.00
Tl	205	1	No Gas	4662244	0.00
Tl	203	1	No Gas	2038415	0.00
Pb	208	1	No Gas	6958444	0.00
U	238	1	No Gas	7082138	0.00
Ca	43	2	He	35182	0.01
Sb	121	2	He	1106801	0.00
Cu	63	1	No Gas	2154795	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	1602833	1.43	1709693	93.75	70	120	
Ge	72	2	He	1272161	0.96	1348381	94.35	70	120	
Ge	72	1	No Gas	3977742	2.43	4032148	98.65	70	120	

Calibration Standard Report

In	115	1	No Gas	4543731	0.62	4757365	95.51	70	120	
Bi	209	1	No Gas	4222564	0.71	4387752	96.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:17:51-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1131231	0.00
V	51	2	He	1927272	0.00
Cr	52	2	He	2066538	0.00
Fe	56	2	He	186253504	0.00
Se	78	2	He	31086	0.00
As	75	2	He	337649	0.00
Ca	44	2	He	1288154	0.00
Na	23	2	He	29556760	0.00
Mg	24	2	He	18979498	0.00
K	39	2	He	23527133	0.00
Mn	55	2	He	1705878	0.00
Co	59	2	He	2961193	0.00
Ni	60	2	He	741345	0.00
Cu	63	2	He	2074284	0.00
Zn	66	2	He	390536	0.00
Al	27	2	He	134635	0.00
B	11	1	No Gas	2967869	0.00
Al	27	1	No Gas	4714191	0.00
Si	28	1	No Gas	13584913	0.00
Ag	107	1	No Gas	4674129	0.00
Cd	111	1	No Gas	989521	0.00
Sr	88	1	No Gas	9456372	0.00
Mo	95	1	No Gas	1980853	0.00
Sn	118	1	No Gas	3045901	0.00
Sb	121	1	No Gas	4468555	0.00
Ba	137	1	No Gas	1625677	0.00
Tl	205	1	No Gas	8942398	0.00
Tl	203	1	No Gas	3872987	0.00
Pb	208	1	No Gas	13487403	0.00
U	238	1	No Gas	13805363	0.00
Ca	43	2	He	69355	0.00
Sb	121	2	He	2439227	0.00
Cu	63	1	No Gas	4071905	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	1485933	3.18	1709693	86.91	70	120	
Ge	72	2	He	1258140	1.75	1348381	93.31	70	120	
Ge	72	1	No Gas	3853892	1.15	4032148	95.58	70	120	

Calibration Standard Report

In	115	1	No Gas	4396916	1.01	4757365	92.42	70	120	
Bi	209	1	No Gas	4073810	0.41	4387752	92.85	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:24:54-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	517795	0.00
V	51	2	He	894244	0.00
Cr	52	2	He	1106000	0.00
Fe	56	2	He	93466469	0.00
Se	78	2	He	15542	0.01
As	75	2	He	168336	0.00
Ca	44	2	He	600463	0.00
Na	23	2	He	15033649	0.00
Mg	24	2	He	9705405	0.00
K	39	2	He	11818678	0.00
Mn	55	2	He	786309	0.00
Co	59	2	He	1562971	0.00
Ni	60	2	He	370363	0.00
Cu	63	2	He	976708	0.00
Zn	66	2	He	196936	0.00
Al	27	2	He	73661	0.00
B	11	1	No Gas	1450734	0.00
Al	27	1	No Gas	2638364	0.00
Si	28	1	No Gas	7446413	0.00
Ag	107	1	No Gas	2314950	0.00
Cd	111	1	No Gas	469452	0.00
Sr	88	1	No Gas	4689166	0.00
Mo	95	1	No Gas	901940	0.00
Sn	118	1	No Gas	1443504	0.00
Sb	121	1	No Gas	2124150	0.00
Ba	137	1	No Gas	707006	0.00
Tl	205	1	No Gas	4318733	0.00
Tl	203	1	No Gas	1856215	0.00
Pb	208	1	No Gas	6500702	0.00
U	238	1	No Gas	6595895	0.00
Ca	43	2	He	34902	0.01
Sb	121	2	He	1067604	0.00
Cu	63	1	No Gas	2056435	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	1428064	0.48	1709693	83.53	70	120	
Ge	72	2	He	1300214	1.38	1348381	96.43	70	120	
Ge	72	1	No Gas	3752174	2.13	4032148	93.06	70	120	

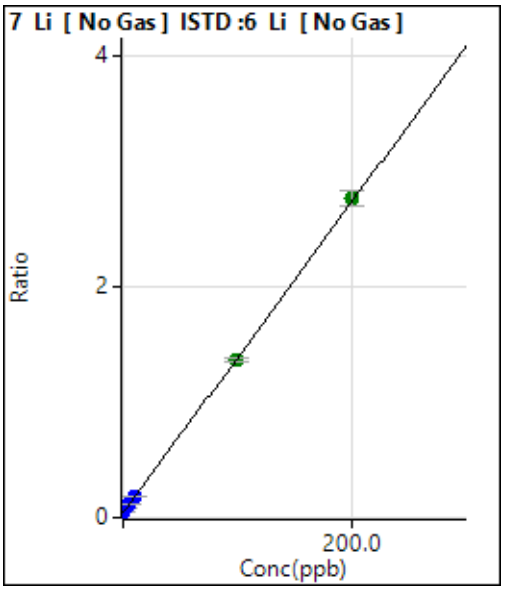
Calibration Standard Report

In	115	1	No Gas	4225958	1.89	4757365	88.83	70	120	
Bi	209	1	No Gas	3974119	2.41	4387752	90.57	70	120	

Calibration for 019CALS.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\041724A.b\
Analysis File: 041724A.batch.bin
DA Date-Time: 4/17/2024 6:33:14 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

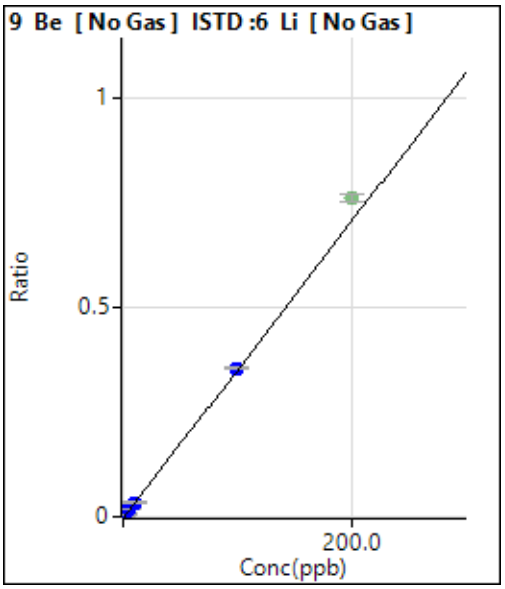
Level	Standard Data File	Sample Name	Acq. Date-Time
1	012CALB.d	CAL BLK	4/17/2024 10:06:23 AM
2	013CALS.d	2/10/200	4/17/2024 10:08:43 AM
3	014CALS.d	5/25/500	4/17/2024 10:11:02 AM
4	015CALS.d	10/50/100	4/17/2024 10:13:21 AM
5	016CALS.d	100/500/10K	4/17/2024 10:15:39 AM
6	017CALS.d	200/1000/20K	4/17/2024 10:17:51 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95175.76	0.0557	P	1.2	
2	☐	2.000	1.824	135031.50	0.0802	P	2.4	-8.8
3	☐	5.000	4.454	195268.23	0.1156	P	2.0	-10.9
4	☐	10.000	9.004	298141.90	0.1769	P	1.7	-10.0
5	☐	100.000	97.363	2190067.05	1.3664	A	2.1	-2.6
6	☐	200.000	201.384	4107005.67	2.7667	A	4.7	0.7

y = 0.0135 * x + 0.0557
R = 0.9999
DL = 0.1429 ppb
BEC = 4.136 ppb

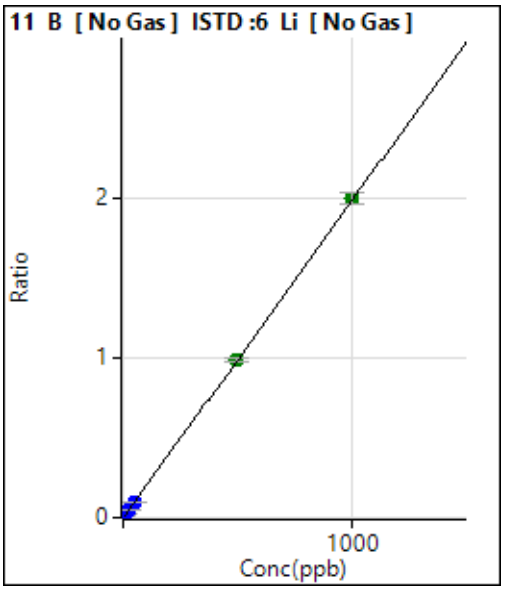
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0001	P	31.7	
2	☐	2.000	1.916	11521.46	0.0068	P	4.0	-4.2
3	☐	5.000	4.721	28365.34	0.0168	P	3.9	-5.6
4	☐	10.000	9.597	57476.97	0.0341	P	2.6	-4.0
5	☐	100.000	100.056	569044.38	0.3551	P	1.3	0.1
6	☑	200.000		1131231.39	0.7616	A	2.4	

y = 0.0035 * x + 5.0522E-005
R = 1.0000
DL = 0.01354 ppb
BEC = 0.01424 ppb

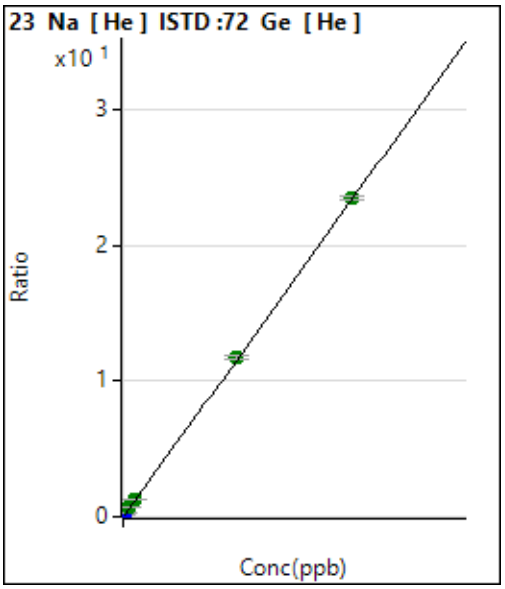
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13793.54	0.0081	P	3.6	
2	☐	10.000	8.943	43433.77	0.0258	P	2.5	-10.6
3	☐	25.000	21.882	86905.65	0.0515	P	1.6	-12.5
4	☐	50.000	44.953	163860.38	0.0972	P	1.3	-10.1
5	☐	500.000	492.942	1579668.15	0.9856	A	1.8	-1.4
6	☐	1000.000	1003.870	2967869.43	1.9988	A	3.5	0.4

y = 0.0020 * x + 0.0081
R = 1.0000
DL = 0.4348 ppb
BEC = 4.07 ppb

Weight: <None>
Min Conc: <None>

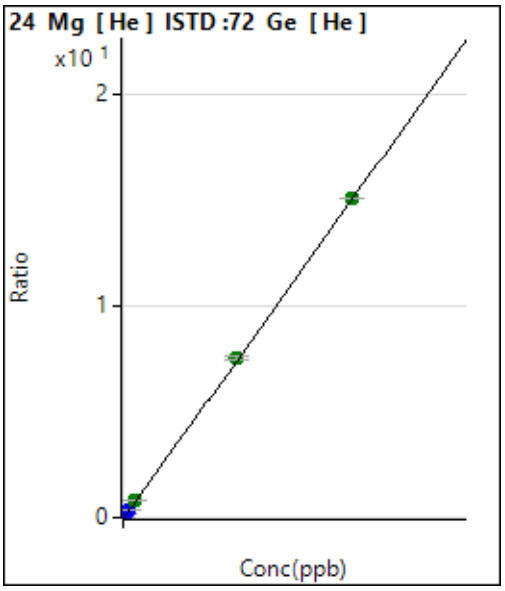


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106443.38	0.0789	P	1.4	
2	☐	200.000	185.185	398920.32	0.2955	P	2.7	-7.4
3	☐	500.000	503.460	899080.51	0.6677	A	4.5	0.7
4	☐	1000.000	1029.960	1698264.35	1.2835	A	0.3	3.0
5	☐	10000.00	9958.918	14914966.86	11.7257	A	2.2	-0.4
6	☐	20000.00	20019.10	29556759.56	23.4909	A	0.7	0.1

y = 0.0012 * x + 0.0789
R = 1.0000
DL = 2.87 ppb
BEC = 67.51 ppb

Weight: <None>
Min Conc: <None>

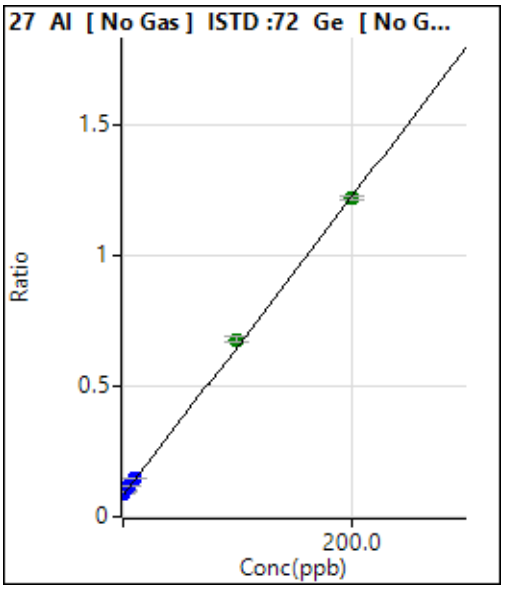
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1583.45	0.0012	P	6.2	
2	☐	200.000	183.314	188110.41	0.1394	P	3.0	-8.3
3	☐	500.000	462.421	470990.24	0.3497	P	3.1	-7.5
4	☐	1000.000	1031.080	1029797.59	0.7784	A	1.3	3.1
5	☐	10000.00	9976.969	9567299.44	7.5217	A	2.4	-0.2
6	☐	20000.00	20011.06	18979498.05	15.0852	A	0.3	0.1

y = 7.5379E-004 * x + 0.0012
R = 1.0000
DL = 0.2907 ppb
BEC = 1.558 ppb

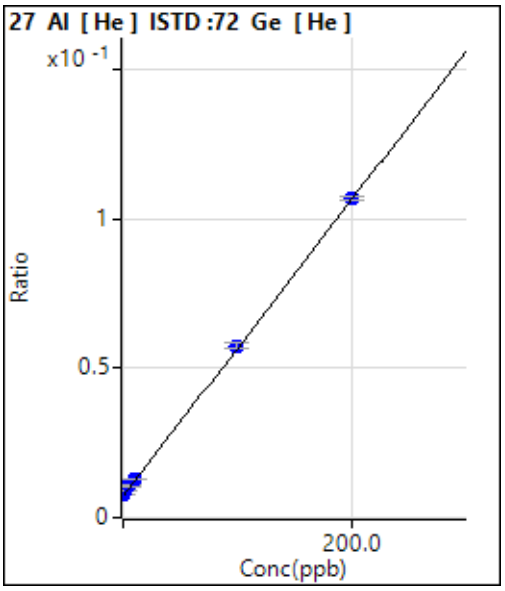
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	354510.44	0.0879	P	1.0	
2	☐	2.000	2.065	404961.53	0.0998	P	2.3	3.3
3	☐	5.000	5.099	475636.40	0.1171	P	1.1	2.0
4	☐	10.000	10.308	593457.70	0.1470	P	2.5	3.1
5	☐	100.000	103.542	2707625.37	0.6811	A	3.7	3.5
6	☐	200.000	198.210	4714191.28	1.2234	A	1.4	-0.9

y = 0.0057 * x + 0.0879
R = 0.9998
DL = 0.4458 ppb
BEC = 15.35 ppb

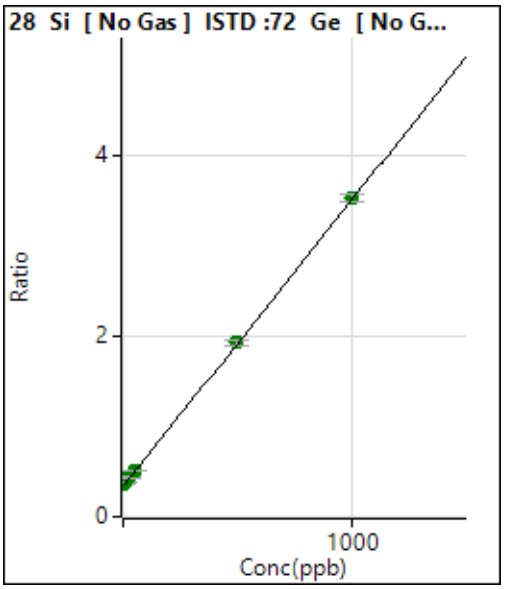
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10430.74	0.0077	P	4.4	
2	☐	2.000	2.310	11992.00	0.0089	P	2.4	15.5
3	☐	5.000	5.958	14401.00	0.0107	P	2.5	19.2
4	☐	10.000	10.141	16893.84	0.0128	P	1.7	1.4
5	☐	100.000	100.141	73085.66	0.0575	P	3.0	0.1
6	☐	200.000	199.895	134634.81	0.1070	P	1.3	-0.1

y = 4.9656E-004 * x + 0.0077
R = 1.0000
DL = 2.035 ppb
BEC = 15.58 ppb

Weight: <None>
Min Conc: <None>

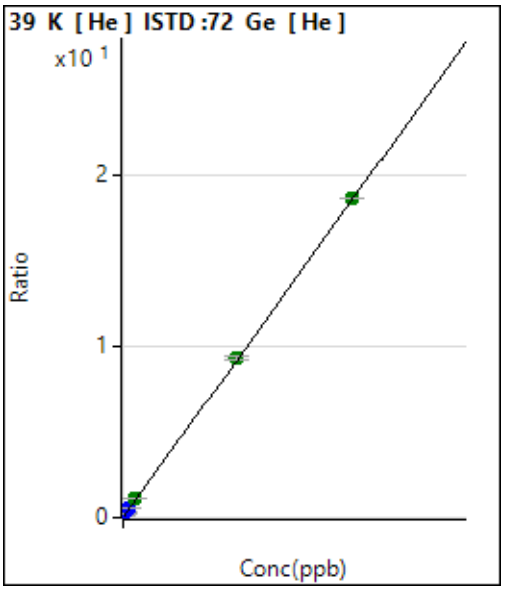


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1429408.31	0.3545	A	0.8	
2	☐	10.000	8.784	1552261.33	0.3823	A	2.8	-12.2
3	☐	25.000	25.753	1770518.20	0.4360	A	2.2	3.0
4	☐	50.000	50.317	2074862.63	0.5138	A	1.8	0.6
5	☐	500.000	496.269	7654096.34	1.9254	A	3.7	-0.7
6	☐	1000.000	1001.843	13584913.13	3.5257	A	2.8	0.2

y = 0.0032 * x + 0.3545
R = 1.0000
DL = 2.819 ppb
BEC = 112 ppb

Weight: <None>
Min Conc: <None>

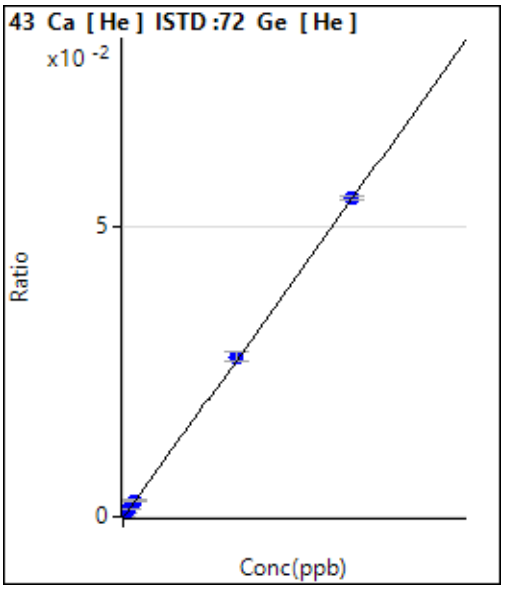
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147954.16	0.1097	P	1.5	
2	☐	200.000	187.577	383047.99	0.2838	P	3.5	-6.2
3	☐	500.000	469.925	734986.03	0.5458	P	2.9	-6.0
4	☐	1000.000	1043.851	1426788.16	1.0783	A	0.4	4.4
5	☐	10000.00	9927.150	11856041.91	9.3208	A	2.0	-0.7
6	☐	20000.00	20035.10	2352132.98	18.6996	A	0.3	0.2

y = 9.2787E-004 * x + 0.1097
R = 1.0000
DL = 5.323 ppb
BEC = 118.3 ppb

Weight: <None>
Min Conc: <None>

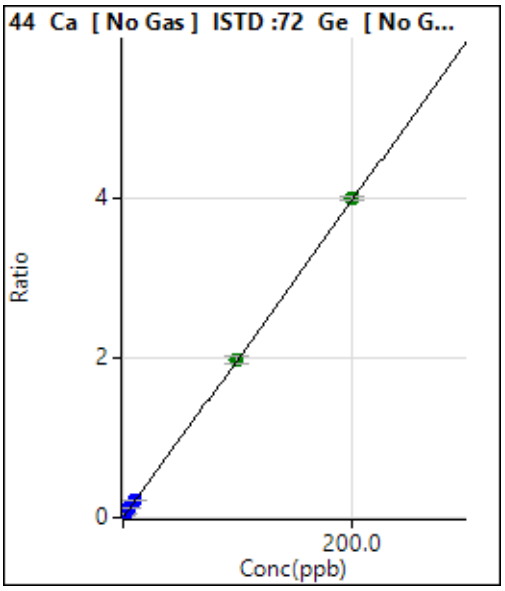


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	55.1	
2	☐	200.000	199.801	816.71	0.0006	P	11.2	-0.1
3	☐	500.000	477.366	1846.82	0.0014	P	13.5	-4.5
4	☐	1000.000	998.095	3710.57	0.0028	P	4.2	-0.2
5	☐	10000.00	10022.24	35182.10	0.0277	P	6.0	0.2
6	☐	20000.00	19989.53	69354.61	0.0551	P	1.1	-0.1

y = 2.7550E-006 * x + 5.4457E-005
R = 1.0000
DL = 32.7 ppb
BEC = 19.77 ppb

Weight: <None>
Min Conc: <None>

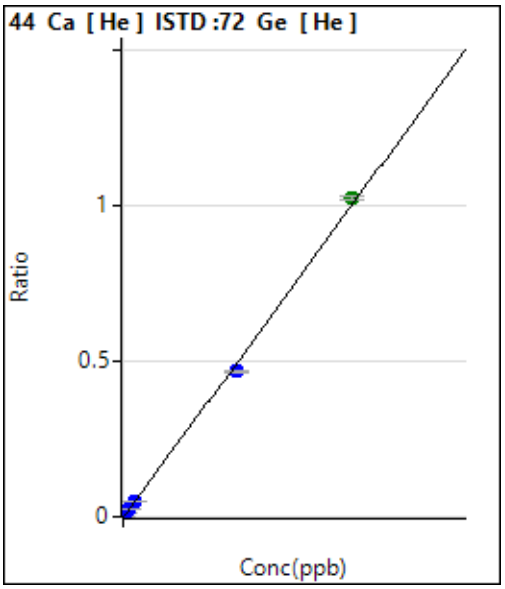
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	68694.99	0.0170	P	1.3	
2	☐	2.000	1.942	225462.17	0.0555	P	0.9	-2.9
3	☐	5.000	4.764	452678.16	0.1115	P	1.3	-4.7
4	☐	10.000	9.721	846875.93	0.2097	P	2.4	-2.8
5	☐	100.000	98.790	7852657.59	1.9753	A	3.9	-1.2
6	☐	200.000	200.626	15390356.85	3.9939	A	1.7	0.3

y = 0.0198 * x + 0.0170
R = 1.0000
DL = 0.03225 ppb
BEC = 0.8595 ppb

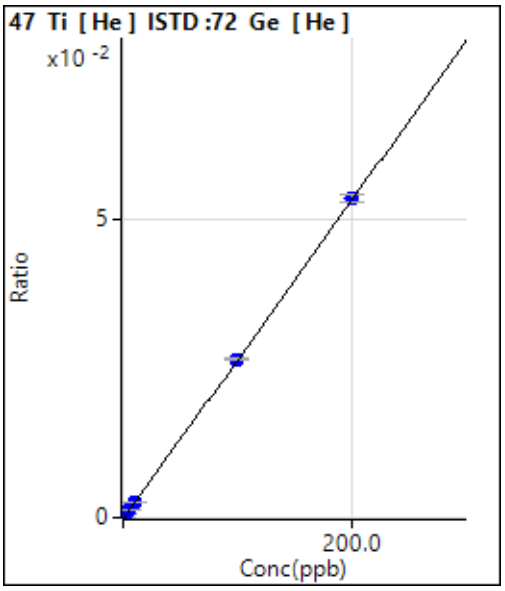
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1843.50	0.0014	P	6.0	
2	☐	200.000	173.638	13606.95	0.0101	P	1.7	-13.2
3	☐	500.000	448.250	32124.56	0.0239	P	3.8	-10.4
4	☐	1000.000	918.292	62766.72	0.0474	P	2.4	-8.2
5	☐	10000.00	9259.837	592696.54	0.4660	P	1.9	-7.4
6	☐	20000.00	20375.72	1288153.55	1.0237	A	1.8	1.9

y = 5.0172E-005 * x + 0.0014
R = 0.9991
DL = 4.883 ppb
BEC = 27.25 ppb

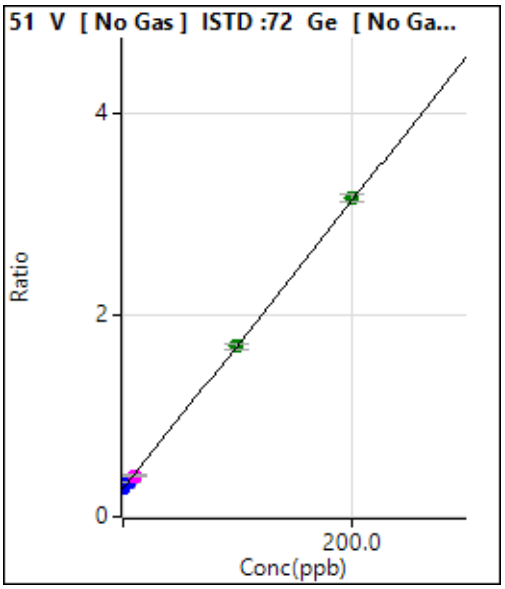
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.1	
2	☐	2.000	2.055	760.03	0.0006	P	2.5	2.8
3	☐	5.000	4.711	1716.81	0.0013	P	0.7	-5.8
4	☐	10.000	9.784	3483.83	0.0026	P	2.1	-2.2
5	☐	100.000	99.345	33872.04	0.0266	P	1.9	-0.7
6	☐	200.000	200.345	67532.69	0.0537	P	1.9	0.2

y = 2.6792E-004 * x + 1.2352E-005
R = 1.0000
DL = 0.09558 ppb
BEC = 0.0461 ppb

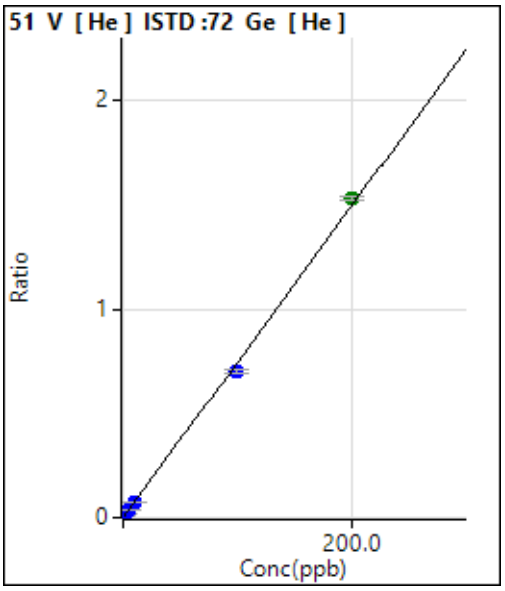
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1190714.68	0.2953	P	0.6	
2	☐	2.000	1.676	1296216.99	0.3192	P	0.9	-16.2
3	☐	5.000	3.581	1406832.93	0.3465	P	2.0	-28.4
4	☐	10.000	7.996	1654464.99	0.4095	M	1.6	-20.0
5	☐	100.000	98.013	6741494.65	1.6957	A	3.3	-2.0
6	☐	200.000	201.133	12211982.32	3.1691	A	1.9	0.6

y = 0.0143 * x + 0.2953
R = 0.9999
DL = 0.3976 ppb
BEC = 20.67 ppb

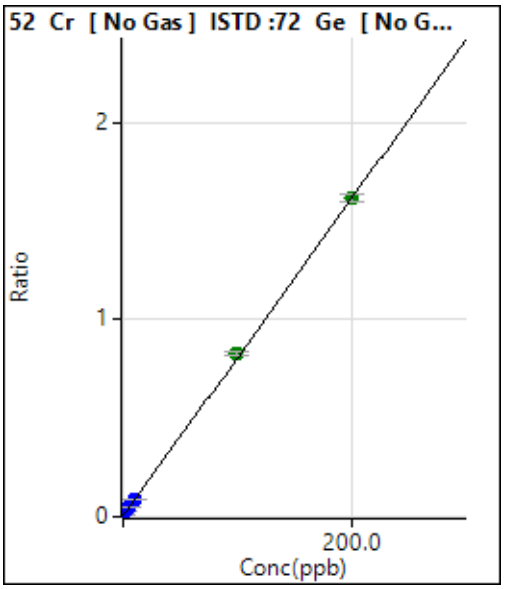
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10542.99	0.0078	P	2.5	
2	☐	2.000	1.752	28240.24	0.0209	P	2.9	-12.4
3	☐	5.000	4.312	53946.91	0.0401	P	2.6	-13.8
4	☐	10.000	8.930	98667.59	0.0746	P	2.3	-10.7
5	☐	100.000	92.530	889993.16	0.6997	P	1.9	-7.5
6	☐	200.000	203.808	1927271.59	1.5317	A	0.8	1.9

y = 0.0075 * x + 0.0078
R = 0.9991
DL = 0.07744 ppb
BEC = 1.046 ppb

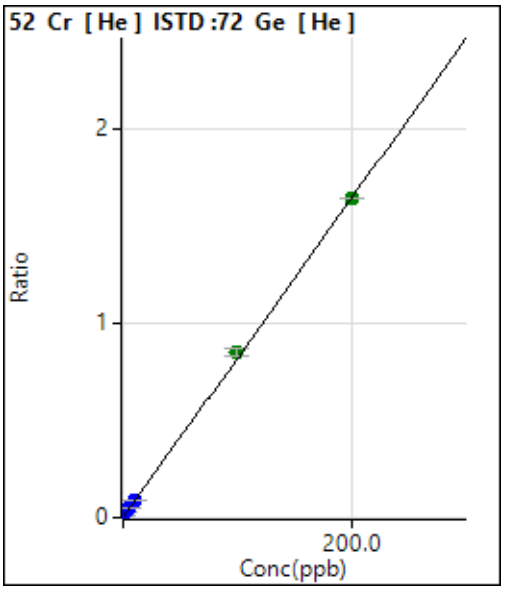
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46991.05	0.0117	P	1.8	
2	☐	2.000	1.948	111007.42	0.0273	P	0.5	-2.6
3	☐	5.000	4.826	205061.82	0.0505	P	3.0	-3.5
4	☐	10.000	9.796	365430.58	0.0905	P	3.1	-2.0
5	☐	100.000	101.452	3293074.32	0.8283	A	3.1	1.5
6	☐	200.000	199.289	6226118.45	1.6158	A	2.4	-0.4

y = 0.0080 * x + 0.0117
R = 1.0000
DL = 0.07968 ppb
BEC = 1.448 ppb

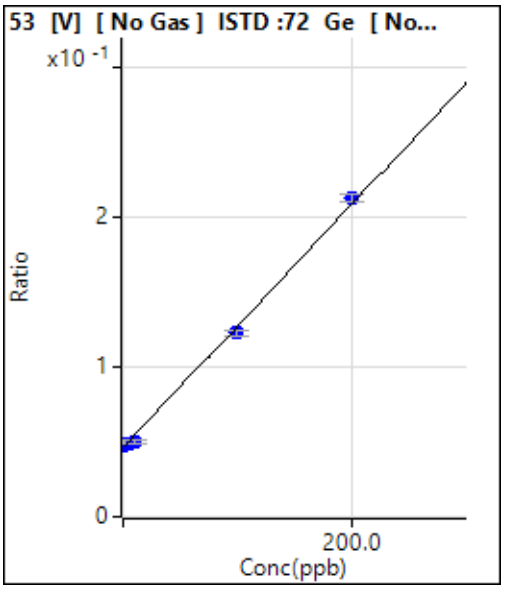
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13036.46	0.0097	P	1.5	
2	☐	2.000	1.874	33832.08	0.0251	P	0.3	-6.3
3	☐	5.000	4.482	62590.09	0.0465	P	1.9	-10.4
4	☐	10.000	9.275	113535.51	0.0858	P	2.9	-7.2
5	☐	100.000	102.396	1081761.91	0.8504	A	3.8	2.4
6	☐	200.000	198.853	2066537.94	1.6424	A	0.5	-0.6

y = 0.0082 * x + 0.0097
R = 0.9999
DL = 0.05376 ppb
BEC = 1.177 ppb

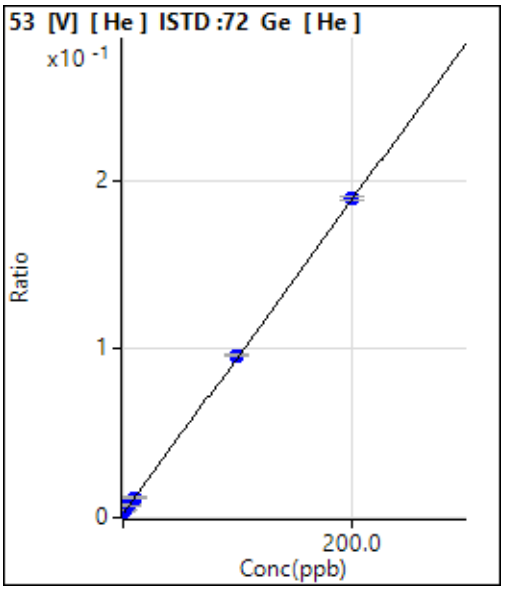
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	192102.19	0.0476	P	0.7	
2	☐	2.000	1.336	197849.79	0.0487	P	0.6	-33.2
3	☐	5.000	1.669	198952.68	0.0490	P	2.1	-66.6
4	☐	10.000	2.905	201823.47	0.0500	P	4.5	-71.0
5	☐	100.000	92.686	488382.62	0.1228	P	3.4	-7.3
6	☐	200.000	204.102	821737.41	0.2132	P	1.9	2.1

y = 8.1139E-004 * x + 0.0476
R = 0.9988
DL = 1.197 ppb
BEC = 58.72 ppb

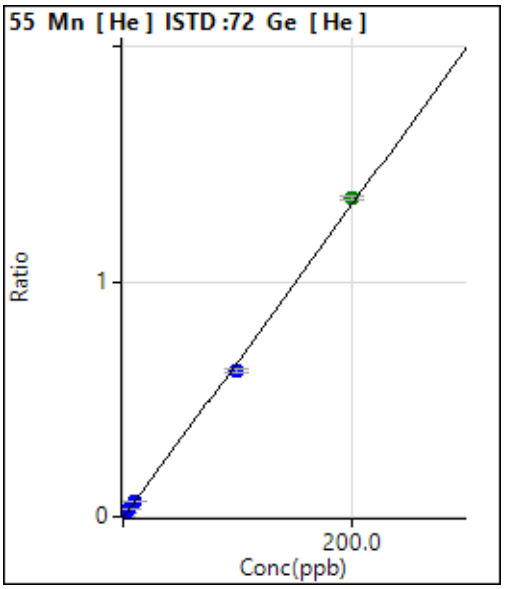
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4430.80	0.0033	P	0.8	
2	☐	2.000	1.887	6805.17	0.0050	P	2.6	-5.6
3	☐	5.000	4.479	10030.51	0.0074	P	2.7	-10.4
4	☐	10.000	9.300	15779.34	0.0119	P	0.9	-7.0
5	☐	100.000	99.627	121907.45	0.0958	P	1.3	-0.4
6	☐	200.000	200.236	238173.26	0.1893	P	1.2	0.1

y = 9.2894E-004 * x + 0.0033
R = 1.0000
DL = 0.08138 ppb
BEC = 3.537 ppb

Weight: <None>
Min Conc: <None>

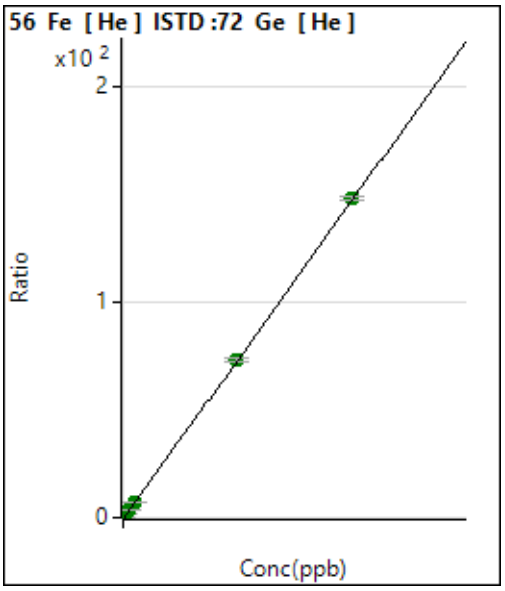


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.79	0.0011	P	13.1	
2	☐	2.000	1.895	18519.54	0.0137	P	3.9	-5.3
3	☐	5.000	4.605	42780.66	0.0318	P	2.0	-7.9
4	☐	10.000	9.144	82009.18	0.0620	P	1.6	-8.6
5	☐	100.000	93.093	789859.11	0.6209	P	1.9	-6.9
6	☐	200.000	203.507	1705877.74	1.3561	A	1.6	1.8

y = 0.0067 * x + 0.0011
R = 0.9992
DL = 0.06489 ppb
BEC = 0.1655 ppb

Weight: <None>
Min Conc: <None>

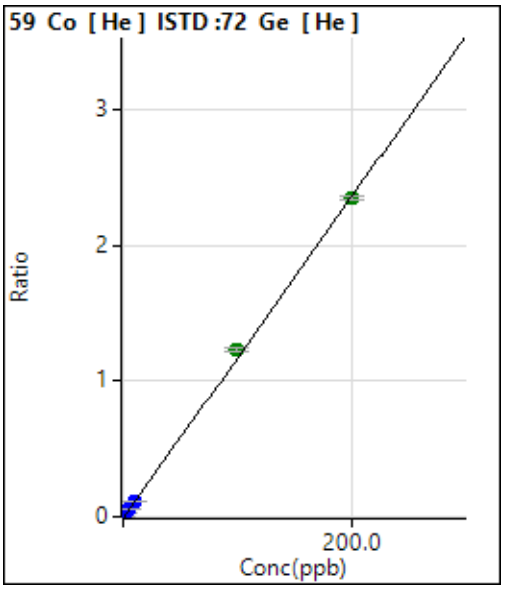
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50025.37	0.0371	P	0.9	
2	☐	200.000	199.360	2036210.70	1.5082	A	1.0	-0.3
3	☐	500.000	482.344	4842803.78	3.5963	A	3.8	-3.5
4	☐	1000.000	985.442	9668426.73	7.3086	A	2.0	-1.5
5	☐	10000.00	9882.052	92802278.62	72.9560	A	2.3	-1.2
6	☐	20000.00	20060.15	186253503.8	148.059	A	1.6	0.3

y = 0.0074 * x + 0.0371
R = 1.0000
DL = 0.137 ppb
BEC = 5.028 ppb

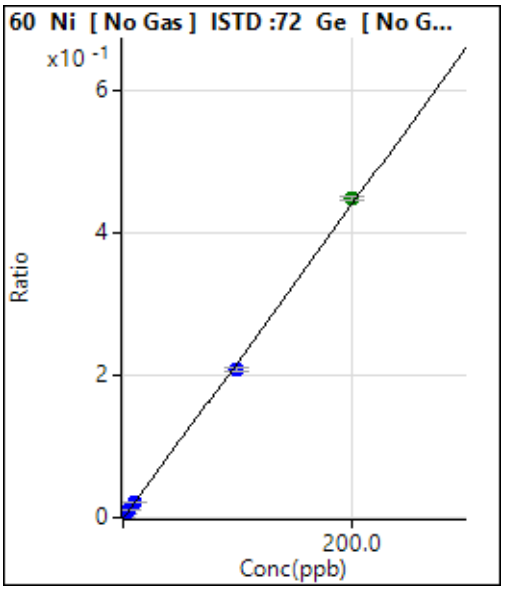
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0001	P	8.4	
2	☐	2.000	1.896	30567.96	0.0226	P	2.4	-5.2
3	☐	5.000	4.737	75948.52	0.0564	P	4.0	-5.3
4	☐	10.000	9.743	153253.99	0.1158	P	2.0	-2.6
5	☐	100.000	103.710	1567147.89	1.2320	A	2.4	3.7
6	☐	200.000	198.165	2961193.39	2.3540	A	1.3	-0.9

y = 0.0119 * x + 1.2355E-004
R = 0.9997
DL = 0.002627 ppb
BEC = 0.0104 ppb

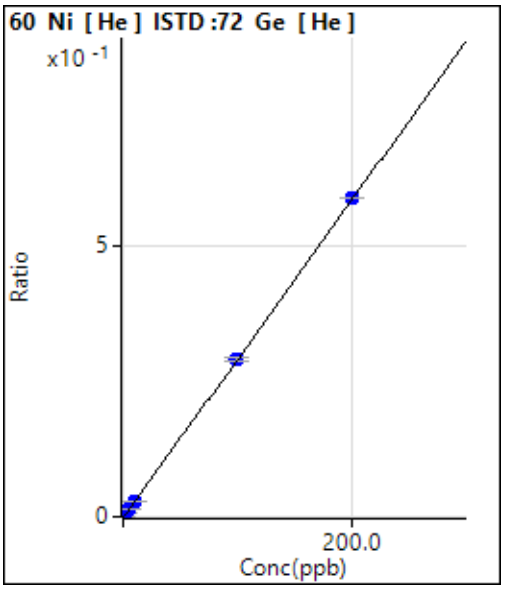
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2423.59	0.0006	P	8.7	
2	☐	2.000	1.931	19758.08	0.0049	P	2.5	-3.4
3	☐	5.000	4.912	46476.56	0.0114	P	1.8	-1.8
4	☐	10.000	9.641	88355.96	0.0219	P	4.8	-3.6
5	☐	100.000	93.696	824999.68	0.2075	P	2.5	-6.3
6	☐	200.000	203.173	1731100.08	0.4492	A	1.3	1.6

y = 0.0022 * x + 6.0078E-004
R = 0.9993
DL = 0.07102 ppb
BEC = 0.2721 ppb

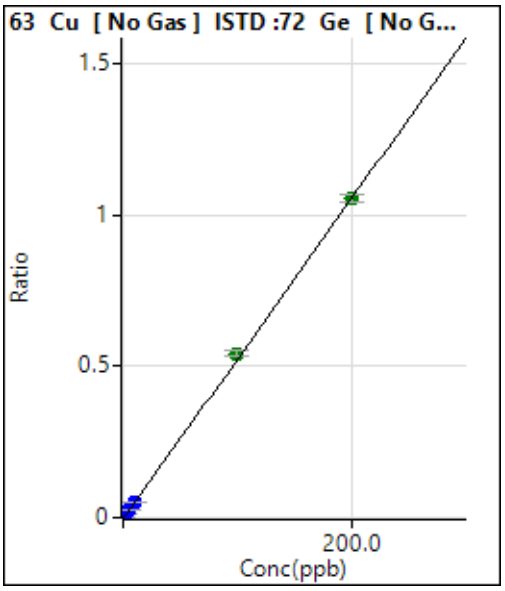
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1040.06	0.0008	P	7.8	
2	☐	2.000	1.940	8732.92	0.0065	P	2.2	-3.0
3	☐	5.000	4.978	20726.10	0.0154	P	3.2	-0.4
4	☐	10.000	9.723	38789.08	0.0293	P	1.9	-2.8
5	☐	100.000	99.207	371534.29	0.2921	P	2.3	-0.8
6	☐	200.000	200.411	741345.48	0.5892	P	0.5	0.2

y = 0.0029 * x + 7.7145E-004
R = 1.0000
DL = 0.06113 ppb
BEC = 0.2627 ppb

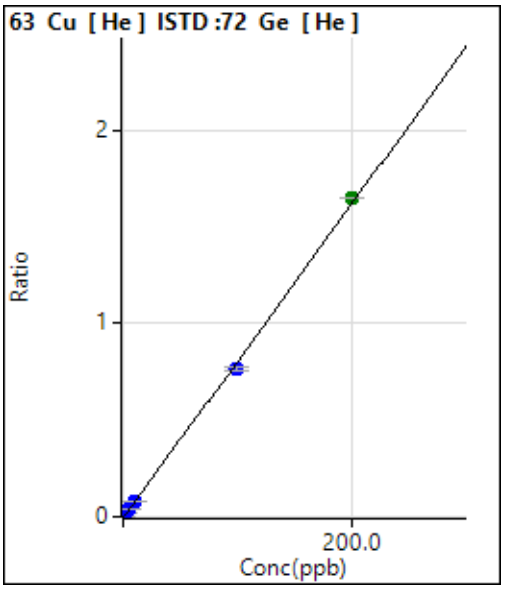
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3170.43	0.0008	P	6.5	
2	☐	2.000	1.940	44978.15	0.0111	P	1.9	-3.0
3	☐	5.000	4.841	107469.78	0.0265	P	2.1	-3.2
4	☐	10.000	9.740	211796.09	0.0525	P	3.3	-2.6
5	☐	100.000	102.019	2154795.02	0.5420	A	3.7	2.0
6	☐	200.000	199.008	4071905.25	1.0566	A	2.0	-0.5

y = 0.0053 * x + 7.8602E-004
R = 0.9999
DL = 0.02875 ppb
BEC = 0.1482 ppb

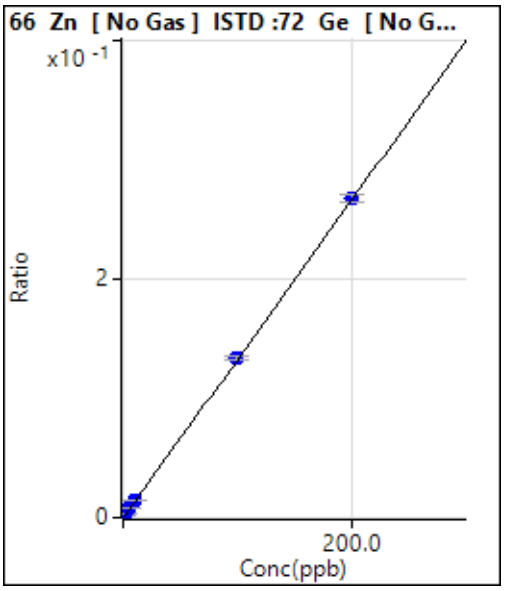
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1423.44	0.0011	P	2.3	
2	☐	2.000	1.837	21567.45	0.0160	P	2.8	-8.2
3	☐	5.000	4.613	51899.59	0.0385	P	2.4	-7.7
4	☐	10.000	9.431	102770.45	0.0777	P	0.9	-5.7
5	☐	100.000	94.472	977620.11	0.7686	P	2.5	-5.5
6	☐	200.000	202.804	2074284.08	1.6487	A	0.6	1.4

y = 0.0081 * x + 0.0011
R = 0.9995
DL = 0.008863 ppb
BEC = 0.1299 ppb

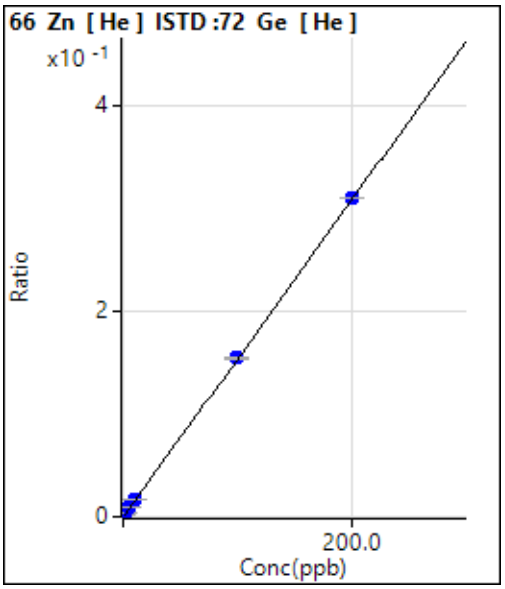
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3637.23	0.0009	P	8.0	
2	☐	2.000	1.977	14354.51	0.0035	P	4.6	-1.1
3	☐	5.000	5.656	34246.95	0.0084	P	3.7	13.1
4	☐	10.000	10.094	57906.89	0.0143	P	3.9	0.9
5	☐	100.000	99.714	531540.96	0.1337	P	2.5	-0.3
6	☐	200.000	200.122	1030356.73	0.2674	P	2.0	0.1

y = 0.0013 * x + 9.0230E-004
R = 1.0000
DL = 0.1621 ppb
BEC = 0.6776 ppb

Weight: <None>
Min Conc: <None>

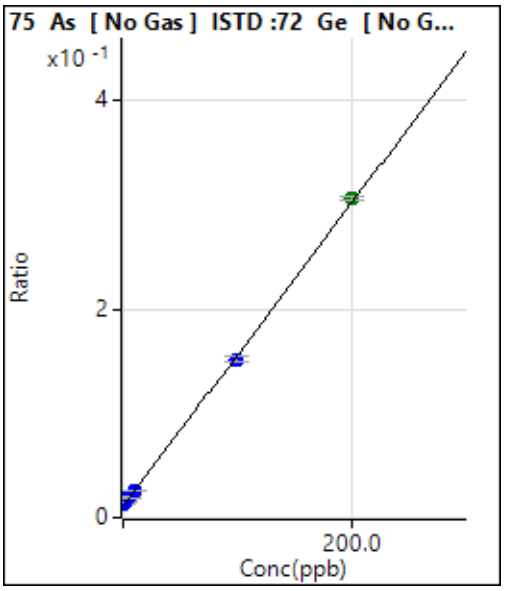


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1533.45	0.0011	P	14.9	
2	☐	2.000	1.930	5554.56	0.0041	P	4.4	-3.5
3	☐	5.000	5.270	12479.28	0.0093	P	8.0	5.4
4	☐	10.000	10.157	22245.23	0.0168	P	1.6	1.6
5	☐	100.000	99.296	196421.96	0.1544	P	2.2	-0.7
6	☐	200.000	200.338	390535.85	0.3104	P	0.4	0.2

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.3296 ppb
BEC = 0.7361 ppb

Weight: <None>
Min Conc: <None>

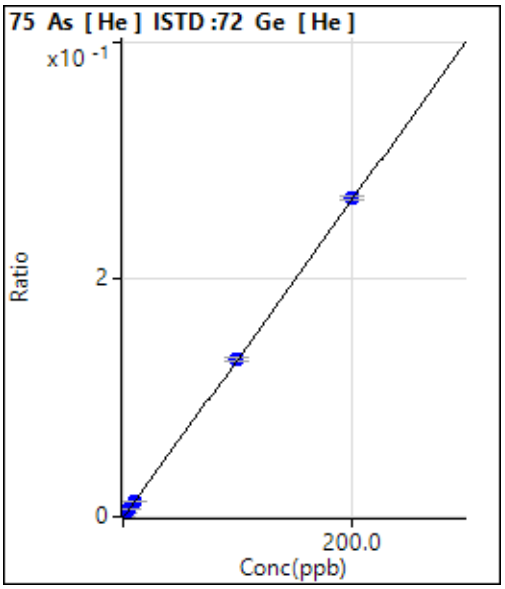
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50561.89	0.0125	P	0.5	
2	☐	2.000	2.122	63436.01	0.0156	P	1.8	6.1
3	☐	5.000	4.709	78725.94	0.0194	P	0.9	-5.8
4	☐	10.000	9.400	105822.69	0.0262	P	3.1	-6.0
5	☐	100.000	95.960	604703.09	0.1521	P	2.7	-4.0
6	☐	200.000	202.056	1180604.80	0.3064	A	1.7	1.0

y = 0.0015 * x + 0.0125
R = 0.9997
DL = 0.1348 ppb
BEC = 8.623 ppb

Weight: <None>
Min Conc: <None>

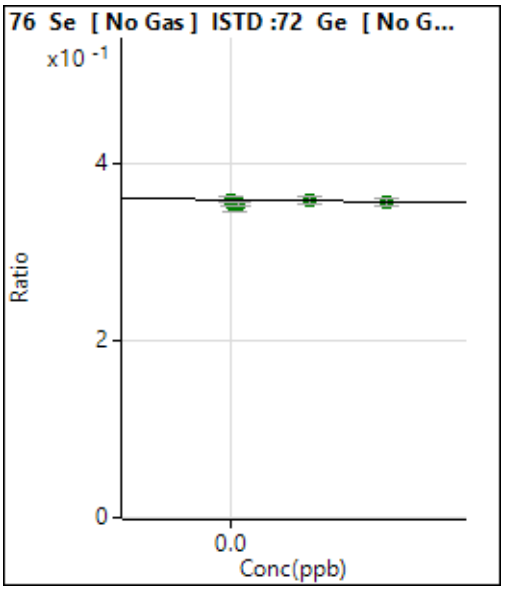


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	430.01	0.0003	P	15.6	
2	☐	2.000	1.849	3767.21	0.0028	P	5.7	-7.5
3	☐	5.000	4.706	8898.52	0.0066	P	6.2	-5.9
4	☐	10.000	9.808	17771.77	0.0134	P	0.2	-1.9
5	☐	100.000	98.983	168735.38	0.1326	P	1.5	-1.0
6	☐	200.000	200.527	337649.23	0.2684	P	1.2	0.3

y = 0.0013 * x + 3.1915E-004
R = 1.0000
DL = 0.1114 ppb
BEC = 0.2387 ppb

Weight: <None>
Min Conc: <None>

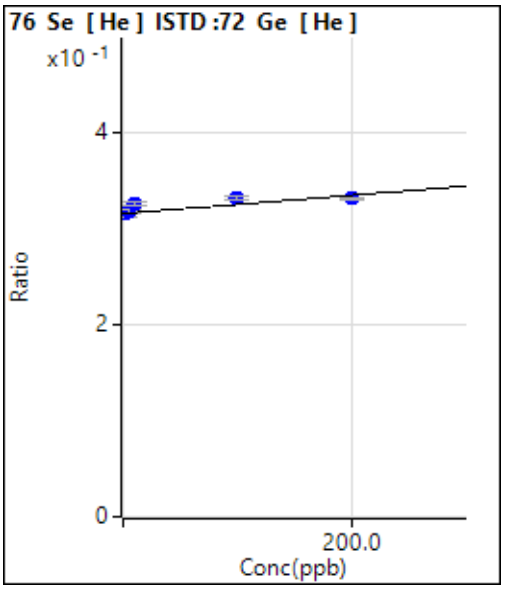
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1450020.97	0.3596	A	2.1	
2	☐	2.000	425.174	1440047.84	0.3547	A	1.3	21158.
3	☐	5.000	701.337	1427266.91	0.3515	A	2.6	13926.
4	☐	10.000	373.099	1435287.48	0.3553	A	1.0	3631.0
5	☐	100.000	46.508	1427882.43	0.3591	A	2.6	-53.5
6	☐	200.000	186.951	1377487.53	0.3575	A	2.5	-6.5

y = -1.1632E-005 * x + 0.3596
R = 0.3842
DL = -1909 ppb
BEC = -3.092E+04 ppb

Weight: <None>
Min Conc: <None>

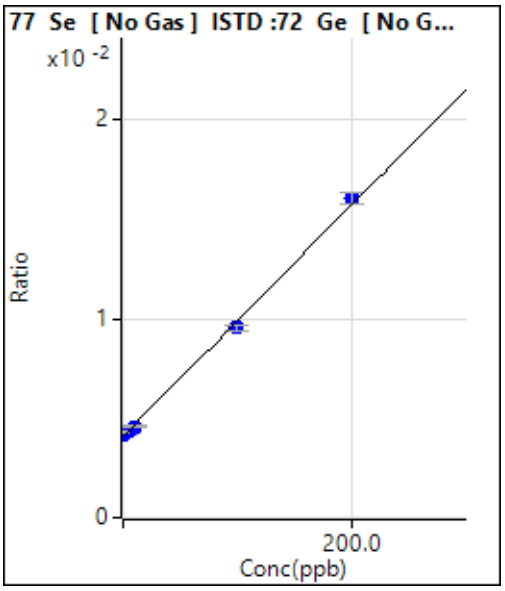


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426056.53	0.3160	P	0.3	
2	☐	2.000	-3.917	426058.55	0.3156	P	2.0	-295.9
3	☐	5.000	29.686	429410.88	0.3188	P	1.5	493.7
4	☐	10.000	104.007	431183.57	0.3259	P	1.6	940.1
5	☐	100.000	169.018	422545.74	0.3322	P	0.8	69.0
6	☐	200.000	160.233	416808.56	0.3313	P	1.0	-19.9

y = 9.5802E-005 * x + 0.3160
R = 0.8065
DL = 31.81 ppb
BEC = 3298 ppb

Weight: <None>
Min Conc: <None>

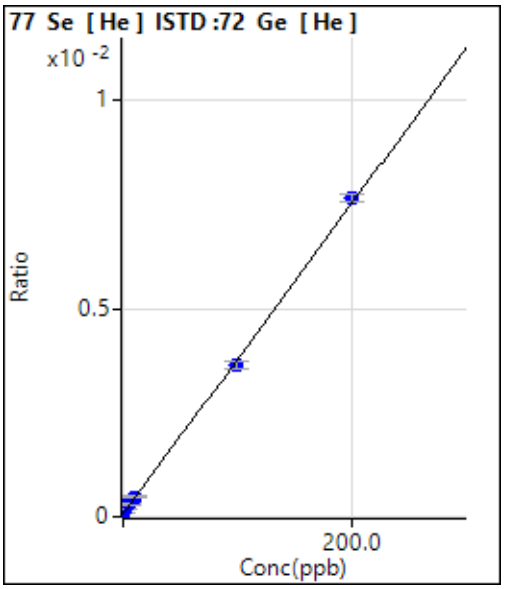
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16870.85	0.0042	P	3.2	
2	☐	2.000	0.562	17114.50	0.0042	P	4.6	-71.9
3	☐	5.000	2.623	17608.50	0.0043	P	2.2	-47.5
4	☐	10.000	6.645	18456.25	0.0046	P	1.5	-33.6
5	☐	100.000	91.922	37853.55	0.0095	P	3.6	-8.1
6	☐	200.000	204.280	61818.86	0.0160	P	3.5	2.1

y = 5.8048E-005 * x + 0.0042
R = 0.9990
DL = 6.861 ppb
BEC = 72.08 ppb

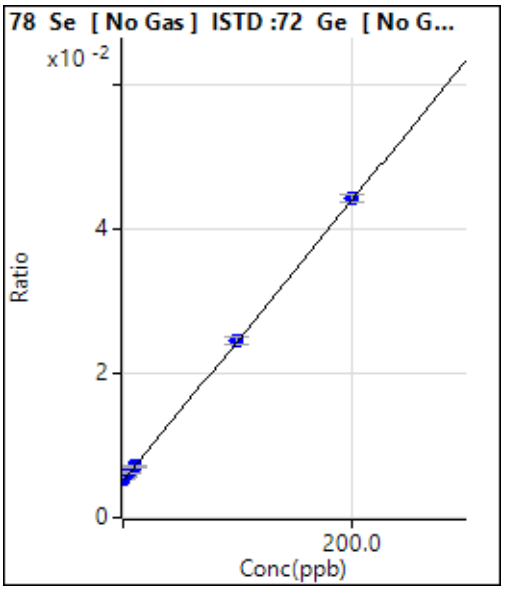
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	6.9	
2	☐	2.000	1.851	233.34	0.0002	P	6.4	-7.5
3	☐	5.000	5.522	416.68	0.0003	P	20.0	10.4
4	☐	10.000	10.060	633.36	0.0005	P	4.8	0.6
5	☐	100.000	94.672	4620.87	0.0036	P	4.4	-5.3
6	☐	200.000	202.650	9633.59	0.0077	P	1.8	1.3

y = 3.7278E-005 * x + 1.0382E-004
R = 0.9995
DL = 0.5777 ppb
BEC = 2.785 ppb

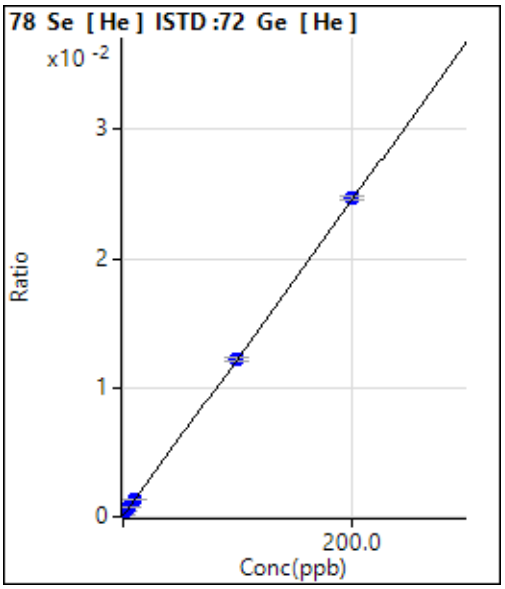
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21430.73	0.0053	P	0.8	
2	☐	2.000	2.266	23363.90	0.0058	P	2.3	13.3
3	☐	5.000	5.260	25724.98	0.0063	P	3.2	5.2
4	☐	10.000	9.353	28784.28	0.0071	P	3.4	-6.5
5	☐	100.000	99.000	97491.78	0.0245	P	3.6	-1.0
6	☐	200.000	200.523	170392.51	0.0442	P	2.8	0.3

y = 1.9403E-004 * x + 0.0053
R = 1.0000
DL = 0.644 ppb
BEC = 27.39 ppb

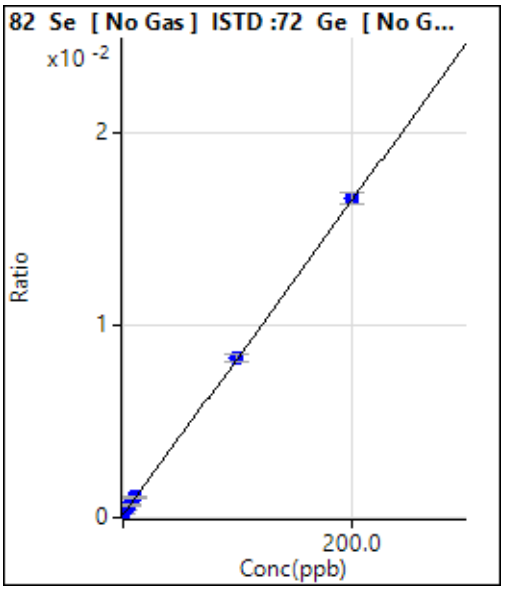
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.00	0.0002	P	2.1	
2	☐	2.000	1.848	541.34	0.0004	P	3.0	-7.6
3	☐	5.000	4.912	1044.71	0.0008	P	4.3	-1.8
4	☐	10.000	9.356	1746.12	0.0013	P	2.2	-6.4
5	☐	100.000	98.853	15601.07	0.0123	P	2.6	-1.1
6	☐	200.000	200.609	31085.78	0.0247	P	1.3	0.3

y = 1.2231E-004 * x + 1.7504E-004
R = 1.0000
DL = 0.09037 ppb
BEC = 1.431 ppb

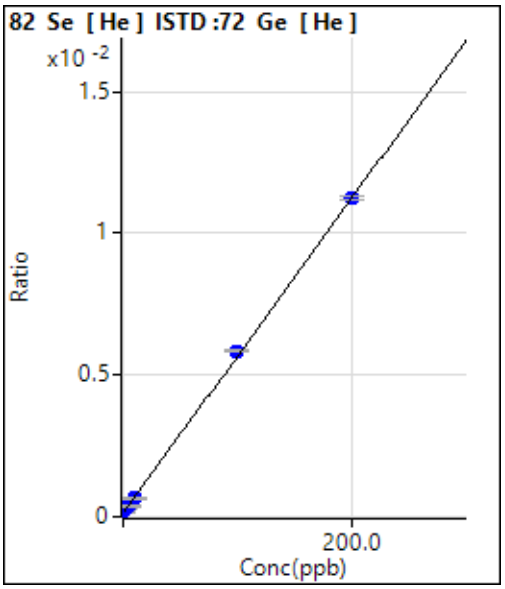
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	4.6	
2	☐	2.000	2.291	1663.47	0.0004	P	16.6	14.6
3	☐	5.000	5.036	2573.64	0.0006	P	8.0	0.7
4	☐	10.000	10.306	4290.76	0.0011	P	8.0	3.1
5	☐	100.000	98.838	32910.74	0.0083	P	5.0	-1.2
6	☐	200.000	200.562	63855.73	0.0166	P	3.4	0.3

y = 8.1518E-005 * x + 2.2326E-004
R = 1.0000
DL = 0.3762 ppb
BEC = 2.739 ppb

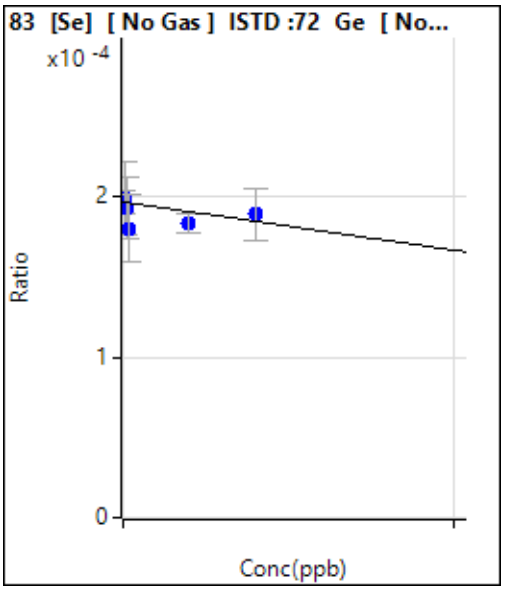
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0002	P	23.0	
2	☐	2.000	1.594	370.01	0.0003	P	12.1	-20.3
3	☐	5.000	3.561	516.69	0.0004	P	9.0	-28.8
4	☐	10.000	8.584	876.71	0.0007	P	8.1	-14.2
5	☐	100.000	101.923	7438.88	0.0058	P	0.5	1.9
6	☐	200.000	199.149	14151.02	0.0112	P	1.2	-0.4

y = 5.5552E-005 * x + 1.8559E-004
R = 0.9999
DL = 2.3 ppb
BEC = 3.341 ppb

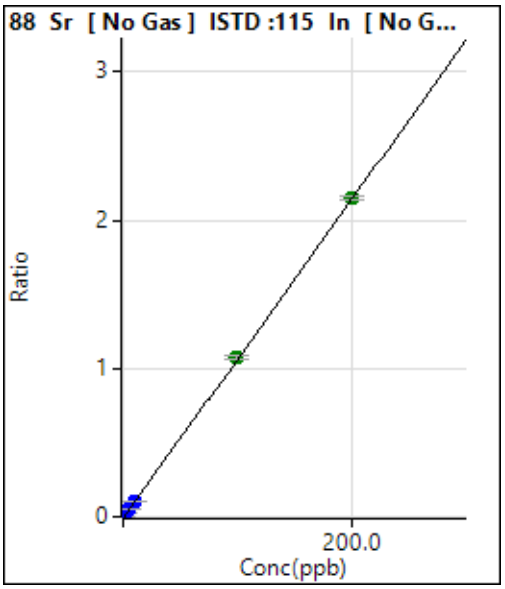
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0002	P	7.5	
2	☐	2.000	-38.779	806.70	0.0002	P	23.1	-2039.0
3	☐	5.000	62.802	783.37	0.0002	P	19.5	1156.0
4	☐	10.000	271.603	730.04	0.0002	P	23.3	2616.0
5	☐	100.000	222.086	730.04	0.0002	P	6.6	122.1
6	☐	200.000	124.840	730.03	0.0002	P	17.2	-37.6

y = -6.0085E-008 * x + 1.9668E-004
R = -0.3227
DL = -739.6 ppb
BEC = -3273 ppb

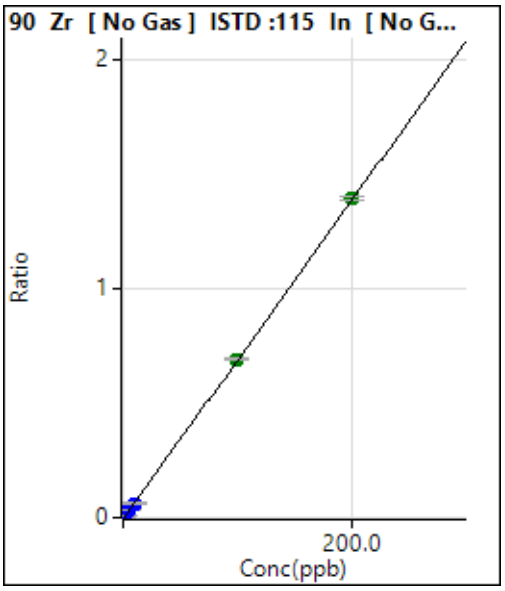
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.28	0.0005	P	3.1	
2	☐	2.000	1.861	98465.31	0.0205	P	2.2	-6.9
3	☐	5.000	4.731	240982.51	0.0514	P	4.1	-5.4
4	☐	10.000	9.559	486485.36	0.1033	P	3.4	-4.4
5	☐	100.000	100.111	4893614.72	1.0770	A	1.7	0.1
6	☐	200.000	199.975	9456372.36	2.1509	A	1.4	0.0

y = 0.0108 * x + 5.1078E-004
R = 1.0000
DL = 0.00447 ppb
BEC = 0.0475 ppb

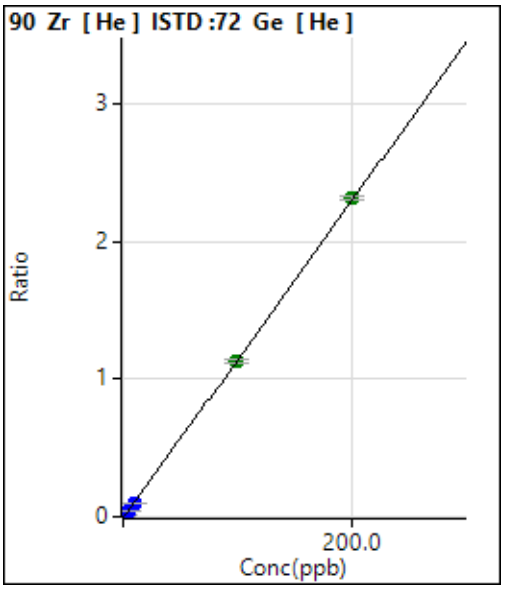
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2433.58	0.0005	P	77.8	
2	☐	2.000	1.558	54401.46	0.0113	P	3.5	-22.1
3	☐	5.000	4.256	141131.67	0.0301	P	3.7	-14.9
4	☐	10.000	8.964	295811.95	0.0628	P	3.0	-10.4
5	☐	100.000	99.291	3137470.68	0.6905	A	1.6	-0.7
6	☐	200.000	200.429	6125960.12	1.3933	A	1.6	0.2

y = 0.0069 * x + 5.1229E-004
R = 1.0000
DL = 0.1721 ppb
BEC = 0.07372 ppb

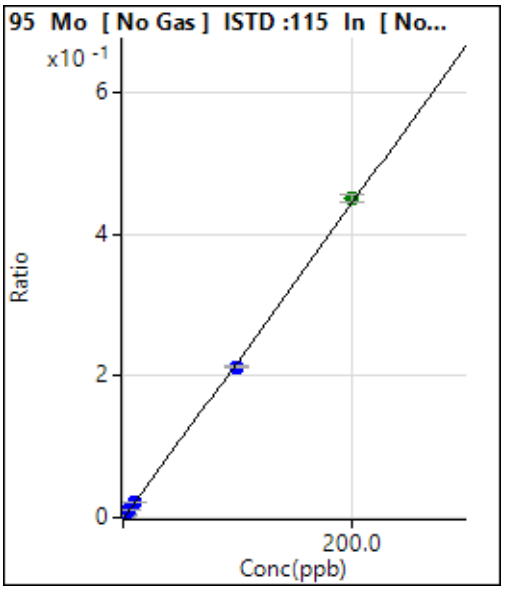
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1746.81	0.0013	P	5.9	
2	☐	2.000	1.528	25494.71	0.0189	P	5.8	-23.6
3	☐	5.000	4.060	64703.43	0.0480	P	3.1	-18.8
4	☐	10.000	8.603	132787.39	0.1004	P	0.5	-14.0
5	☐	100.000	98.415	1443082.79	1.1345	A	2.7	-1.6
6	☐	200.000	200.891	2912022.88	2.3144	A	1.5	0.4

y = 0.0115 * x + 0.0013
R = 1.0000
DL = 0.01982 ppb
BEC = 0.1125 ppb

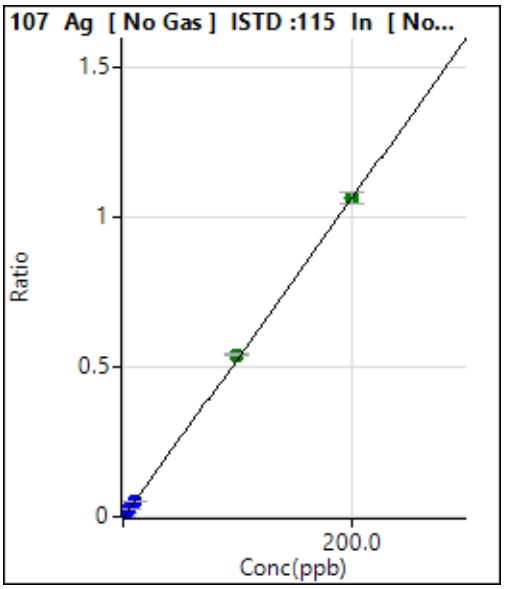
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286.68	0.0001	P	14.0	
2	☐	2.000	1.796	19471.22	0.0041	P	3.3	-10.2
3	☐	5.000	4.565	47923.04	0.0102	P	5.6	-8.7
4	☐	10.000	9.319	97986.49	0.0208	P	3.0	-6.8
5	☐	100.000	95.318	964242.41	0.2122	P	1.6	-4.7
6	☐	200.000	202.388	1980852.73	0.4505	A	2.1	1.2

y = 0.0022 * x + 6.0232E-005
R = 0.9996
DL = 0.0114 ppb
BEC = 0.02706 ppb

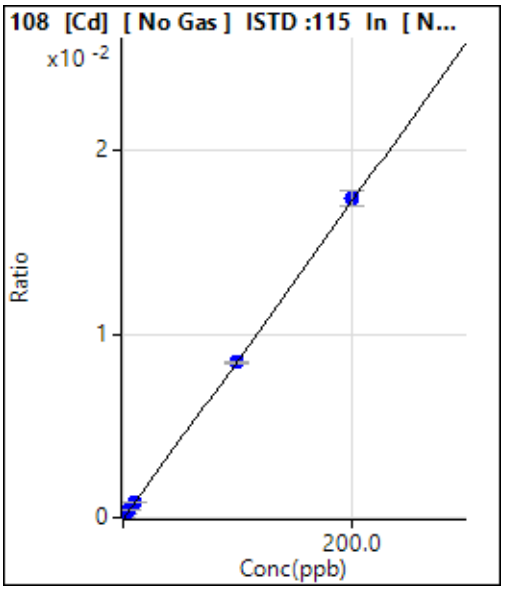
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	5.0	
2	☐	2.000	1.897	49583.34	0.0103	P	1.2	-5.2
3	☐	5.000	4.837	121997.12	0.0260	P	4.3	-3.3
4	☐	10.000	9.790	246945.37	0.0524	P	3.0	-2.1
5	☐	100.000	101.298	2455198.19	0.5404	A	0.7	1.3
6	☐	200.000	199.367	4674129.31	1.0633	A	3.2	-0.3

y = 0.0053 * x + 2.2144E-004
R = 1.0000
DL = 0.006225 ppb
BEC = 0.04153 ppb

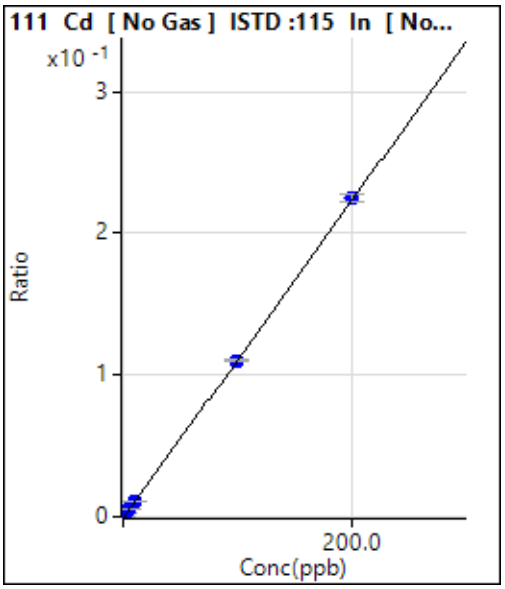
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.	
2	☐	2.000	1.862	780.04	0.0002	P	3.3	-6.9
3	☐	5.000	4.882	1986.86	0.0004	P	8.6	-2.4
4	☐	10.000	9.425	3850.63	0.0008	P	4.3	-5.8
5	☐	100.000	97.588	38386.38	0.0084	P	1.6	-2.4
6	☐	200.000	201.239	76575.91	0.0174	P	4.7	0.6

y = 8.6561E-005 * x + 1.4055E-006
R = 0.9999
DL = 0.08437 ppb
BEC = 0.01624 ppb

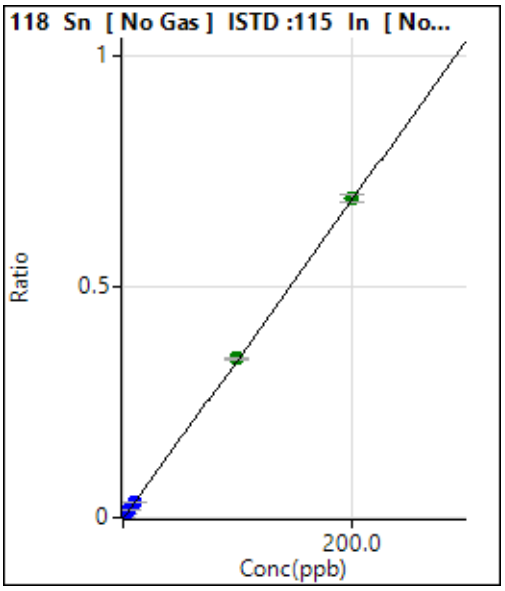
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	75.9	
2	☐	2.000	1.893	10210.79	0.0021	P	1.6	-5.3
3	☐	5.000	4.907	25829.10	0.0055	P	4.3	-1.9
4	☐	10.000	9.923	52428.00	0.0111	P	2.0	-0.8
5	☐	100.000	98.387	501063.70	0.1103	P	1.4	-1.6
6	☐	200.000	200.814	989520.53	0.2251	P	1.9	0.4

y = 0.0011 * x + 7.0121E-006
R = 1.0000
DL = 0.01424 ppb
BEC = 0.006257 ppb

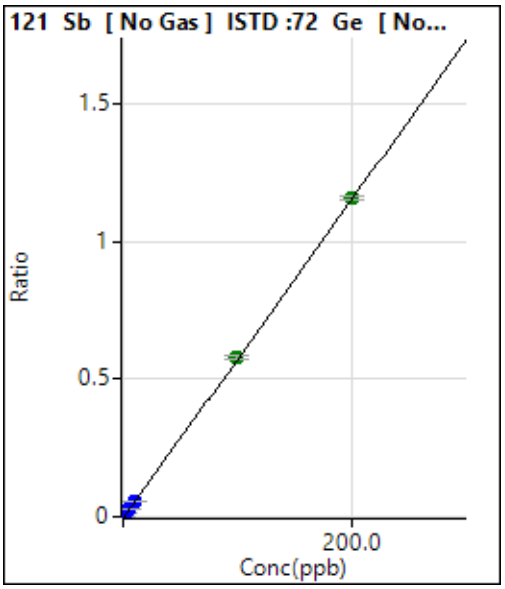
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4177.41	0.0009	P	5.7	
2	☐	2.000	1.807	34151.52	0.0071	P	1.4	-9.6
3	☐	5.000	4.611	78887.02	0.0168	P	1.0	-7.8
4	☐	10.000	9.226	154206.08	0.0327	P	3.7	-7.7
5	☐	100.000	99.444	1564684.82	0.3444	A	0.7	-0.6
6	☐	200.000	200.328	3045901.00	0.6928	A	2.1	0.2

y = 0.0035 * x + 8.7828E-004
R = 1.0000
DL = 0.0432 ppb
BEC = 0.2543 ppb

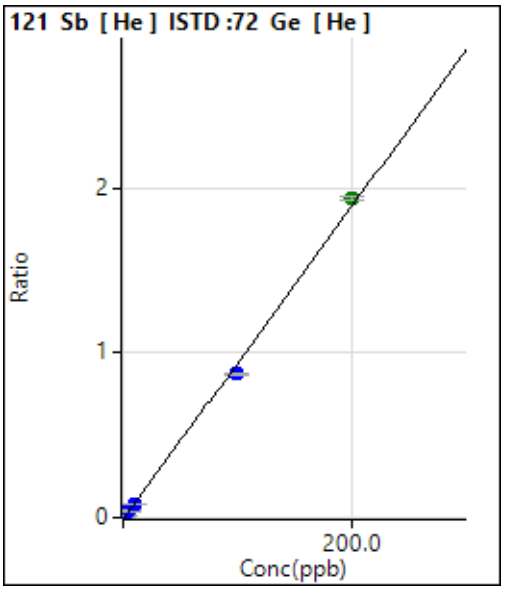
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.35	0.0001	P	13.9	
2	☐	2.000	1.843	43723.34	0.0108	P	2.8	-7.8
3	☐	5.000	4.618	109034.92	0.0269	P	1.1	-7.6
4	☐	10.000	9.389	220029.03	0.0545	P	3.4	-6.1
5	☐	100.000	99.910	2302198.35	0.5791	A	3.0	-0.1
6	☐	200.000	200.087	4468555.14	1.1596	A	1.2	0.0

y = 0.0058 * x + 9.0138E-005
R = 1.0000
DL = 0.006483 ppb
BEC = 0.01555 ppb

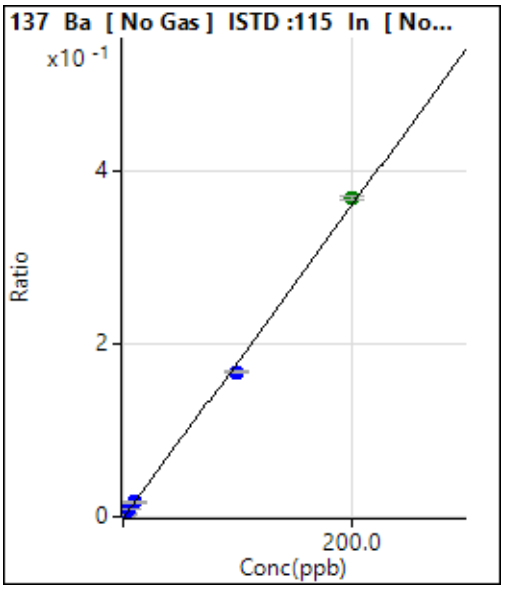
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0001	P	50.8	
2	☐	2.000	1.671	21611.49	0.0160	P	3.3	-16.4
3	☐	5.000	4.314	55347.15	0.0411	P	2.1	-13.7
4	☐	10.000	8.883	111744.12	0.0845	P	0.4	-11.2
5	☐	100.000	91.663	1106801.21	0.8701	P	2.3	-8.3
6	☐	200.000	204.245	2439226.63	1.9387	A	1.1	2.1

y = 0.0095 * x + 1.4852E-004
R = 0.9988
DL = 0.02386 ppb
BEC = 0.01565 ppb

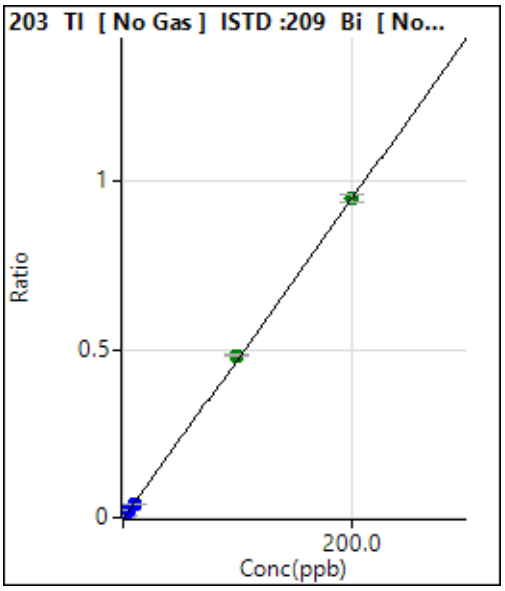
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0001	P	11.9	
2	☐	2.000	1.773	15970.20	0.0033	P	2.7	-11.4
3	☐	5.000	4.515	38935.43	0.0083	P	3.5	-9.7
4	☐	10.000	9.187	78963.28	0.0168	P	4.4	-8.1
5	☐	100.000	92.350	761223.24	0.1675	P	1.1	-7.7
6	☐	200.000	203.880	1625677.16	0.3697	A	1.2	1.9

y = 0.0018 * x + 1.1567E-004
R = 0.9990
DL = 0.02281 ppb
BEC = 0.0638 ppb

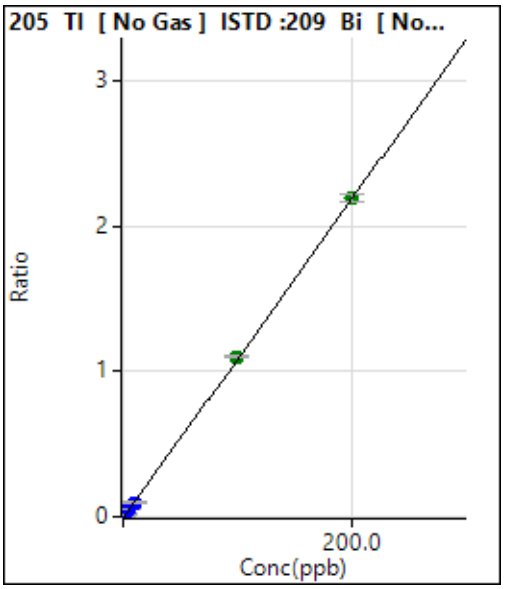
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	346.68	0.0001	P	4.9	
2	☐	2.000	1.735	36834.89	0.0083	P	2.0	-13.3
3	☐	5.000	4.509	95551.07	0.0216	P	0.8	-9.8
4	☐	10.000	8.702	184109.42	0.0416	P	1.6	-13.0
5	☐	100.000	101.266	2038415.07	0.4828	A	1.3	1.3
6	☐	200.000	199.447	3872987.44	0.9508	A	2.3	-0.3

y = 0.0048 * x + 7.9023E-005
R = 0.9999
DL = 0.002435 ppb
BEC = 0.01658 ppb

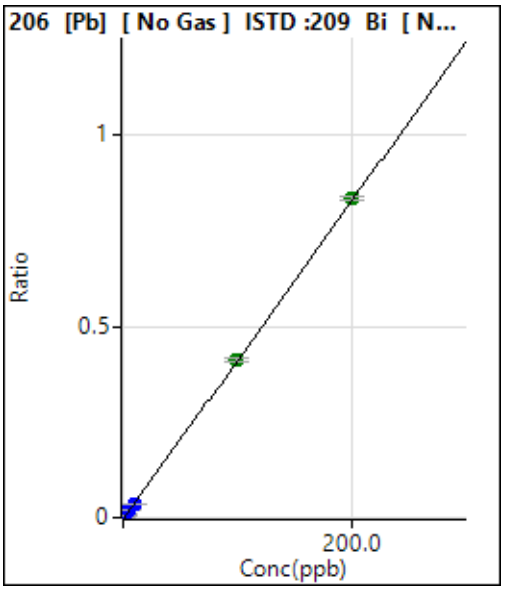
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0002	P	5.6	
2	☐	2.000	1.795	87805.94	0.0199	P	2.1	-10.3
3	☐	5.000	4.610	225112.25	0.0508	P	1.0	-7.8
4	☐	10.000	8.957	436690.69	0.0986	P	1.5	-10.4
5	☐	100.000	100.496	4662244.41	1.1042	A	2.1	0.5
6	☐	200.000	199.816	8942398.20	2.1952	A	2.3	-0.1

y = 0.0110 * x + 1.8308E-004
R = 1.0000
DL = 0.002803 ppb
BEC = 0.01667 ppb

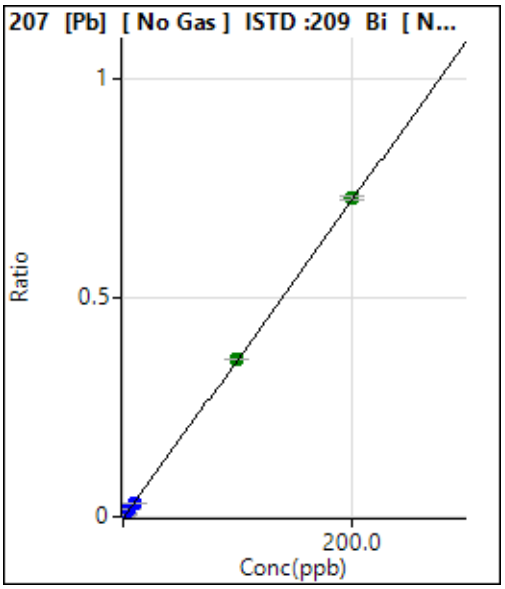
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	680.03	0.0002	P	8.8	
2	☐	2.000	1.771	33177.86	0.0075	P	1.2	-11.5
3	☐	5.000	4.337	80580.23	0.0182	P	2.0	-13.3
4	☐	10.000	8.826	163286.11	0.0369	P	2.1	-11.7
5	☐	100.000	98.640	1732610.39	0.4104	A	2.5	-1.4
6	☐	200.000	200.758	3401720.47	0.8350	A	0.8	0.4

y = 0.0042 * x + 1.5497E-004
R = 1.0000
DL = 0.009801 ppb
BEC = 0.03726 ppb

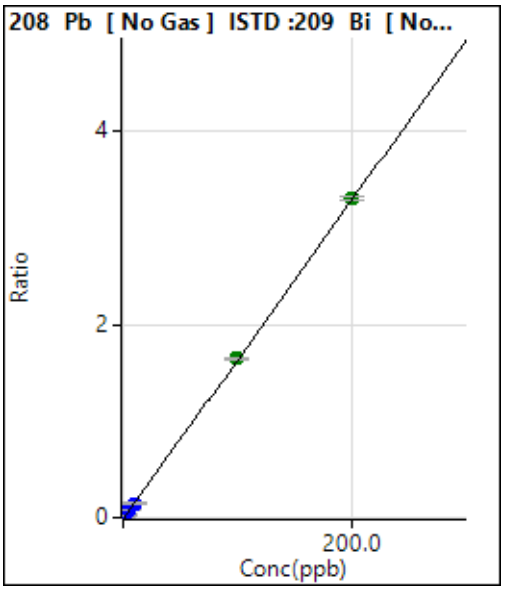
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	540.03	0.0001	P	3.7	
2	☐	2.000	1.766	28766.90	0.0065	P	3.0	-11.7
3	☐	5.000	4.347	70295.30	0.0159	P	1.2	-13.1
4	☐	10.000	8.808	141880.73	0.0320	P	2.9	-11.9
5	☐	100.000	98.683	1509916.59	0.3576	A	0.2	-1.3
6	☐	200.000	200.737	2962667.46	0.7272	A	1.1	0.4

y = 0.0036 * x + 1.2309E-004
R = 1.0000
DL = 0.003729 ppb
BEC = 0.03398 ppb

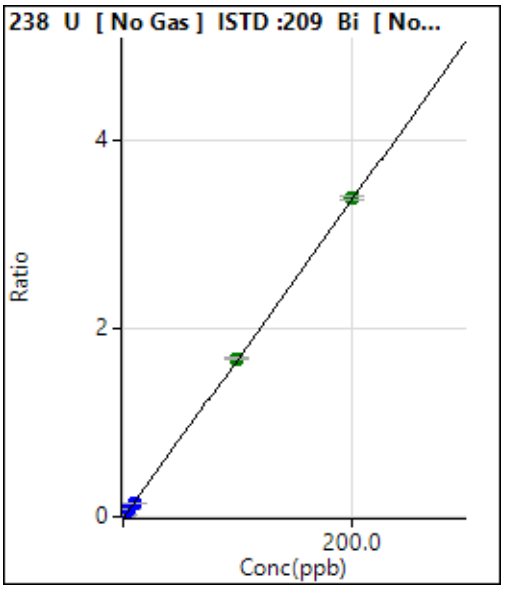
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2503.48	0.0006	P	5.5	
2	☐	2.000	1.780	132344.02	0.0300	P	1.8	-11.0
3	☐	5.000	4.403	324935.44	0.0734	P	1.0	-11.9
4	☐	10.000	8.958	658570.71	0.1487	P	2.2	-10.4
5	☐	100.000	99.657	6958443.81	1.6480	A	1.4	-0.3
6	☐	200.000	200.241	13487403.03	3.3108	A	0.7	0.1

y = 0.0165 * x + 5.7045E-004
R = 1.0000
DL = 0.005722 ppb
BEC = 0.03451 ppb

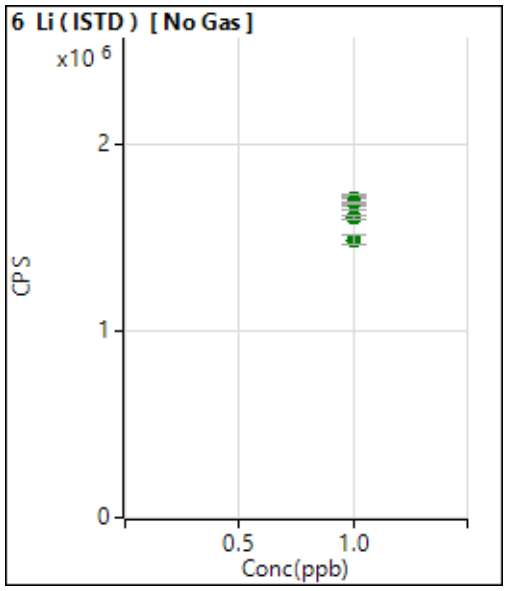
Weight: <None>
Min Conc: <None>



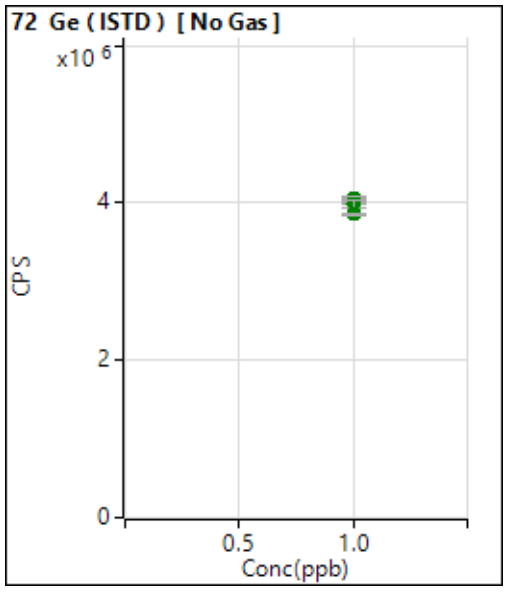
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	740.04	0.0002	P	2.1	
2	☐	2.000	1.774	133076.73	0.0302	P	1.8	-11.3
3	☐	5.000	4.374	328262.84	0.0741	P	1.7	-12.5
4	☐	10.000	8.842	662863.87	0.1496	P	1.6	-11.6
5	☐	100.000	99.217	7082138.44	1.6773	A	1.3	-0.8
6	☐	200.000	200.467	13805363.13	3.3888	A	0.9	0.2

y = 0.0169 * x + 1.6865E-004
R = 1.0000
DL = 0.0006385 ppb
BEC = 0.009977 ppb

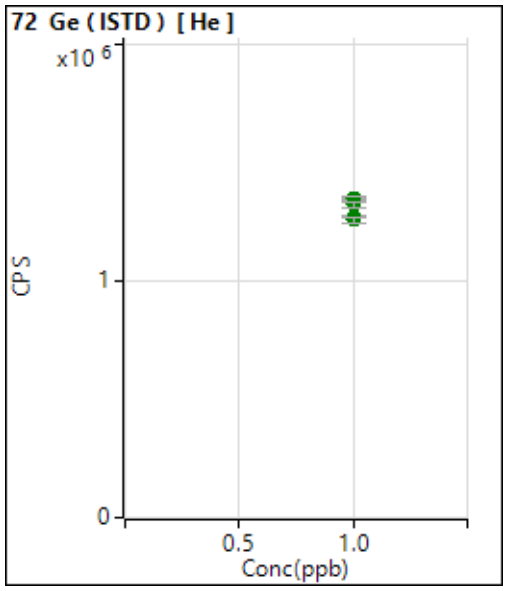
Weight: <None>
Min Conc: <None>



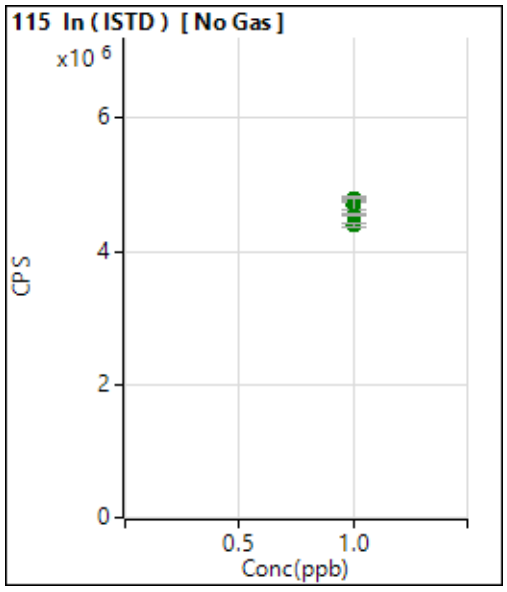
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709693.07		A	2.2	
2	☐	1.000		1684032.85		A	3.7	
3	☐	1.000		1689083.68		A	2.4	
4	☐	1.000		1685601.20		A	0.5	
5	☐	1.000		1602833.25		A	1.4	
6	☐	1.000		1485932.75		A	3.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4032147.65		A	0.8	
2	☐	1.000		4060404.84		A	1.4	
3	☐	1.000		4060624.62		A	0.1	
4	☐	1.000		4039531.71		A	2.5	
5	☐	1.000		3977741.71		A	2.4	
6	☐	1.000		3853891.92		A	1.2	

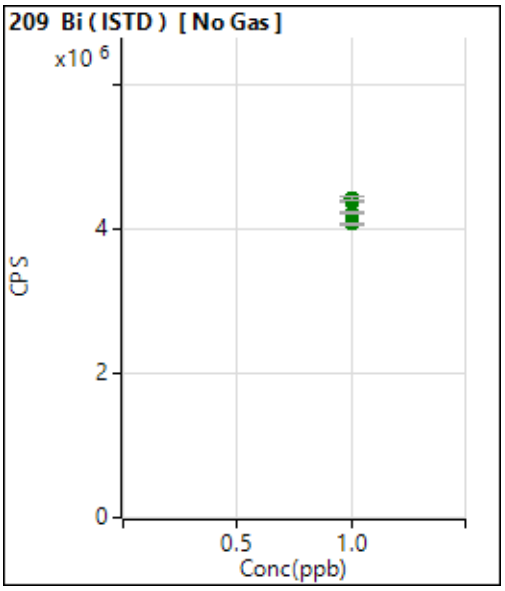


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1348381.02		A	0.8	
2	☐	1.000		1350236.02		A	1.4	
3	☐	1.000		1347099.56		A	1.6	
4	☐	1.000		1323155.97		A	1.9	
5	☐	1.000		1272160.74		A	1.0	
6	☐	1.000		1258140.06		A	1.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4757365.09		A	0.6	
2	☐	1.000		4797210.87		A	1.0	
3	☐	1.000		4694611.76		A	3.4	
4	☐	1.000		4713862.81		A	4.1	
5	☐	1.000		4543731.32		A	0.6	
6	☐	1.000		4396915.86		A	1.0	

Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4387752.12		A	0.6	
2	☐	1.000		4412656.29		A	1.6	
3	☐	1.000		4429635.14		A	0.7	
4	☐	1.000		4430689.31		A	1.5	
5	☐	1.000		4222564.31		A	0.7	
6	☐	1.000		4073809.83		A	0.4	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	022LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:31:55-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	012CALB.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	1.833	1.833	2.45	122381	0.00	2	
Be	9	1	No Gas	1.933	1.933	2.03	10521	0.02	2	
V	51	2	He	1.483	1.483	8.31	23384	0.01	2	
Cr	52	2	He	1.803	1.803	6.11	31671	0.01	2	
Fe	56	2	He	204.869	204.869	4.86	2003668	0.01	200	
Se	78	2	He	1.874	1.874	1.82	523	0.36	2	
As	75	2	He	1.848	1.848	6.33	3609	0.05	2	
Ca	44	2	He	180.065	180.065	8.70	13450	1.34	200	
Na	23	2	He	185.794	185.794	4.61	383309	0.05	200	
Mg	24	2	He	185.044	185.044	3.66	182005	0.10	200	
K	39	2	He	191.130	191.130	5.52	371479	0.05	200	
Mn	55	2	He	1.797	1.797	3.40	16907	0.01	2	
Co	59	2	He	1.896	1.896	6.14	29299	0.01	2	
Ni	60	2	He	2.013	2.013	2.24	8650	0.02	2	
Cu	63	2	He	1.861	1.861	4.08	20933	0.01	2	
Zn	66	2	He	1.808	1.808	12.16	5084	0.04	2	
Al	27	2	He	2.105	2.105	56.34	11355	0.02	2	
B	11	1	No Gas	10.185	10.185	2.51	43051	0.02	10	
Al	27	1	No Gas	2.208	2.208	7.73	388415	0.00	2	
Si	28	1	No Gas	10.557	10.557	16.78	1498245	0.00	10	
Ag	107	1	No Gas	1.881	1.881	0.92	45563	0.00	2	
Cd	111	1	No Gas	1.894	1.894	2.01	9464	0.02	2	
Sr	88	1	No Gas	1.910	1.910	0.81	93547	0.00	2	
Mo	95	1	No Gas	1.863	1.863	2.21	18693	0.01	2	
Sn	118	1	No Gas	1.792	1.792	3.51	31401	0.01	2	
Sb	121	1	No Gas	1.791	1.791	4.04	40416	0.00	2	
Ba	137	1	No Gas	1.818	1.818	1.32	15166	0.01	2	
Tl	205	1	No Gas	1.783	1.783	1.63	81479	0.00	2	
Tl	203	1	No Gas	1.730	1.730	3.56	34304	0.01	2	
Pb	208	1	No Gas	1.748	1.748	1.27	121435	0.00	2	
U	238	1	No Gas	1.751	1.751	1.48	122687	0.00	2	
Ca	43	2	He	168.122	168.122	4.95	670	25.09	200	
Sb	121	2	He	1.859	1.859	5.59	21101	0.01	2	
Ti	47	2	He	1.817	1.817	15.39	647	0.28	200	
Cu	63	1	No Gas	1.940	1.940	3.26	42791	0.00	2	
Se	82	1	No Gas	1.738	1.738	37.67	1410	0.12	2	
Zr	90	1	No Gas	1.643	1.643	1.09	53016	0.00	2	
Zr	90	2	He	1.607	1.607	2.56	25628	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1522985	0.42	1709693	89.08	70	120	

Sample Report

Ge	72	2	He	1294612	2.32	1348381	96.01	70	120	
Ge	72	1	No Gas	3862345	0.98	4032148	95.79	70	120	
In	115	1	No Gas	4445248	2.74	4757365	93.44	70	120	
Bi	209	1	No Gas	4120927	1.77	4387752	93.92	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	023LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:34:16-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	012CALB.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	4.440	4.440	5.15	177427	0.00	5	
Be	9	1	No Gas	4.854	4.854	2.41	26548	0.02	5	
V	51	2	He	4.295	4.295	3.64	48993	0.01	5	
Cr	52	2	He	4.437	4.437	4.56	60199	0.01	5	
Fe	56	2	He	475.944	475.944	3.12	4634438	0.01	500	
Se	78	2	He	4.769	4.769	10.02	990	0.48	5	
As	75	2	He	4.658	4.658	3.75	8548	0.05	5	
Ca	44	2	He	438.661	438.661	3.52	30524	1.44	500	
Na	23	2	He	506.565	506.565	0.54	876778	0.06	500	
Mg	24	2	He	458.324	458.324	2.76	452668	0.10	500	
K	39	2	He	467.022	467.022	2.80	709165	0.07	500	
Mn	55	2	He	4.486	4.486	1.86	40447	0.01	5	
Co	59	2	He	4.578	4.578	5.01	71160	0.01	5	
Ni	60	2	He	4.682	4.682	3.44	18960	0.02	5	
Cu	63	2	He	4.480	4.480	1.89	48908	0.01	5	
Zn	66	2	He	5.110	5.110	2.14	11785	0.04	5	
Al	27	2	He	5.523	5.523	15.75	13680	0.04	5	
B	11	1	No Gas	23.340	23.340	2.73	83541	0.03	25	
Al	27	1	No Gas	5.484	5.484	1.12	458766	0.00	5	
Si	28	1	No Gas	24.409	24.409	6.33	1659895	0.00	25	
Ag	107	1	No Gas	4.731	4.731	0.60	113715	0.00	5	
Cd	111	1	No Gas	4.782	4.782	1.77	23972	0.02	5	
Sr	88	1	No Gas	4.716	4.716	1.51	228822	0.00	5	
Mo	95	1	No Gas	4.531	4.531	2.06	45321	0.01	5	
Sn	118	1	No Gas	4.502	4.502	2.99	73382	0.01	5	
Sb	121	1	No Gas	4.557	4.557	1.58	101868	0.00	5	
Ba	137	1	No Gas	4.410	4.410	5.02	36221	0.01	5	
Tl	205	1	No Gas	4.558	4.558	3.85	207179	0.00	5	
Tl	203	1	No Gas	4.433	4.433	2.14	87473	0.01	5	
Pb	208	1	No Gas	4.363	4.363	1.04	299850	0.00	5	
U	238	1	No Gas	4.408	4.408	1.96	308016	0.00	5	
Ca	43	2	He	450.305	450.305	16.30	1690	26.64	500	
Sb	121	2	He	4.607	4.607	3.15	52506	0.01	5	
Ti	47	2	He	4.623	4.623	9.29	1633	0.28	5	
Cu	63	1	No Gas	4.752	4.752	2.17	99926	0.00	5	
Se	82	1	No Gas	5.077	5.077	14.49	2450	0.21	5	
Zr	90	1	No Gas	4.241	4.241	1.35	133959	0.00	5	
Zr	90	2	He	4.087	4.087	4.08	63146	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1537675	3.14	1709693	89.94	70	120	

Sample Report

Ge	72	2	He	1305986	0.69	1348381	96.86	70	120	
Ge	72	1	No Gas	3844180	0.63	4032148	95.34	70	120	
In	115	1	No Gas	4468521	2.31	4757365	93.93	70	120	
Bi	209	1	No Gas	4124585	2.05	4387752	94.00	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:38:55-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.090	-116.8	84234	0.9	0.5	
Be	9	1	No Gas	0.002	156.4	87	17.6	0.5	
V	51	2	He	-0.552	-2.4	5284	1.8	2.5	
Cr	52	2	He	-0.377	-1.8	8683	1.1	2.5	
Fe	56	2	He	0.104	145.0	50012	2.6	100	
Se	78	2	He	0.034	159.7	237	3.8	1	
As	75	2	He	-0.052	-20.1	330	5.3	2.5	
Ca	44	2	He	-0.536	-41.8	1770	1.1	100	
Na	23	2	He	-3.934	-32.1	98177	1.6	100	
Mg	24	2	He	-0.172	-9.0	1380	0.7	100	
K	39	2	He	1.553	127.2	146812	1.3	100	
Mn	55	2	He	-0.012	-28.8	1353	1.7	2.5	
Co	59	2	He	0.001	62.1	187	8.2	2.5	
Ni	60	2	He	-0.004	-1306.7	1003	19.3	2.5	
Cu	63	2	He	-0.047	-19.3	893	10.3	1	
Zn	66	2	He	-0.108	-93.4	1280	16.4	2.5	
Al	27	2	He	0.453	61.4	10511	1.4	5	
B	11	1	No Gas	0.060	465.4	12656	3.8	0.5	
Al	27	1	No Gas	0.926	26.1	351497	0.7	5	
Si	28	1	No Gas	5.786	22.2	1405795	1.2	10	
Ag	107	1	No Gas	-0.025	-21.6	393	29.7	2.5	
Cd	111	1	No Gas	-0.004	-1.1	10	0.0	1	
Sr	88	1	No Gas	0.001	581.3	2287	11.6	2.5	
Mo	95	1	No Gas	0.000	-1024.7	263	5.8	2.5	
Sn	118	1	No Gas	-0.068	-13.7	2824	5.1	5	
Sb	121	1	No Gas	0.002	61.1	380	5.3	2.5	
Ba	137	1	No Gas	-0.005	-158.3	470	11.3	2.5	
Tl	205	1	No Gas	-0.004	-80.8	573	23.7	1	
Tl	203	1	No Gas	-0.003	-62.8	257	15.7	1	
Pb	208	1	No Gas	-0.016	-17.9	1203	16.1	2.5	
U	238	1	No Gas	-0.003	-38.9	503	14.0	2.5	
Ca	43	2	He	0.383	1792.7	73	34.3	100	
Sb	121	2	He	0.001	388.2	207	19.6	2.5	
Ti	47	2	He	0.001	1606.3	17	34.6	2.5	
Se	82	1	No Gas	-0.160	-240.9	793	15.8	1	
Zr	90	1	No Gas	-0.009	-23.6	1977	1.3	2.5	
Zr	90	2	He	0.011	98.0	1874	8.5	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1547391	2.92	1709693	90.51	70	120	
Ge	72	2	He	1320617	0.46	1348381	97.94	70	120	
Ge	72	1	No Gas	3770979	1.70	4032148	93.52	70	120	
In	115	1	No Gas	4398808	2.25	4757365	92.46	70	120	
Bi	209	1	No Gas	4041774	0.37	4387752	92.11	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:41:16-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	012CALB.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	0.364	18.5	86880	0.1	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.001	207.7	80	18.8	0	ICSA Main CR1 Failed
V	51	2	He	-0.261	-5.4	7432	2.8	0	ICSA Main CR1 Failed
Cr	52	2	He	1.107	2.0	23157	0.5	0	ICSA Main CR1 Failed
Fe	56	2	He	101264.825	2.0	922837160	2.6	0	
Se	78	2	He	0.180	61.6	243	6.2	0	ICSA Main CR1 Failed
As	75	2	He	0.185	19.5	700	8.0	0	ICSA Main CR1 Failed
Ca	44	2	He	104318.673	0.5	6465508	1.9	0	
Na	23	2	He	104897.238	1.2	151577024	0.3	0	
Mg	24	2	He	103377.673	0.4	96234762	1.7	0	
K	39	2	He	103758.459	1.3	119014002	0.7	0	
Mn	55	2	He	2.417	3.2	21233	2.8	0	ICSA Main CR1 Failed
Co	59	2	He	0.966	2.0	14321	2.2	0	ICSA Main CR1 Failed
Ni	60	2	He	2.428	1.4	9757	2.7	0	ICSA Main CR1 Failed
Cu	63	2	He	0.492	1.4	6242	0.4	0	ICSA Main CR1 Failed
Zn	66	2	He	2.847	2.3	6832	3.3	0	ICSA Main CR1 Failed
Al	27	2	He	100568.212	0.8	61677377	1.2	0	
B	11	1	No Gas	2.341	1.8	18235	0.9	0	
Al	27	1	No Gas	102191.583	0.4	2119222688	0.8	0	
Si	28	1	No Gas	1526.753	8.8	18765756	7.2	0	
Ag	107	1	No Gas	0.382	2.0	8997	1.9	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	1.656	5.2	7429	5.3	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	2176.211	1.7	93293682	1.6	0	
Mo	95	1	No Gas	1961.921	1.0	17408793	1.0	0	
Sn	118	1	No Gas	2074.288	1.4	28566175	1.6	0	
Sb	121	1	No Gas	0.615	1.3	13230	2.4	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.859	1.2	6669	1.1	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.017	17.7	1370	8.4	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.015	30.5	560	13.5	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.060	3.3	5851	3.1	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.049	4.6	3721	3.8	0	ICSA Main CR1 Failed
Ca	43	2	He	107583.088	0.9	366105	2.0	0	
Sb	121	2	He	0.636	4.1	7009	3.1	0	ICSA Main CR1 Failed
Ti	47	2	He	2082.897	0.4	689186	1.8	0	
Se	82	1	No Gas	0.211	79.2	870	5.0	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	1434436	1.48	1709693	83.90	70	120	
Ge	72	2	He	1234938	1.47	1348381	91.59	70	120	
Ge	72	1	No Gas	3619701	1.12	4032148	89.77	70	120	
In	115	1	No Gas	3986684	0.13	4757365	83.80	70	120	
Bi	209	1	No Gas	3735621	1.12	4387752	85.14	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:43:38-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	012CALB.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	95.379	5.091	2007158	4.06	100	95.4	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	97.599	2.186	518971	1.32	100	97.6	80	120	
V	51	2	He	98.608	2.195	883051	1.30	100	98.6	80	120	
Cr	52	2	He	102.889	4.143	1093911	3.03	100	102.9	80	120	
Fe	56	2	He	111994.485	2.178	1058141024	1.15	100	111994.5	80	120	
Se	78	2	He	102.336	3.145	16250	2.59	100	102.3	80	120	
As	75	2	He	98.719	2.520	169385	1.55	100	98.7	80	120	
Ca	44	2	He	111143.110	2.591	7141199	1.49	100	111143.1	80	120	ICSB Main CR1 Failed
Na	23	2	He	113418.651	1.728	169935337	0.65	100	113418.7	80	120	
Mg	24	2	He	113698.200	2.071	109734882	1.02	100	113698.2	80	120	
K	39	2	He	112687.423	2.086	134014201	0.96	100	112687.4	80	120	
Mn	55	2	He	91.441	2.098	780985	1.41	100	91.4	80	120	
Co	59	2	He	95.830	1.665	1457644	0.57	100	95.8	80	120	
Ni	60	2	He	94.719	1.727	357106	0.60	100	94.7	80	120	
Cu	63	2	He	90.077	1.920	938365	0.86	100	90.1	80	120	
Zn	66	2	He	97.867	2.623	194883	1.51	100	97.9	80	120	
Al	27	2	He	97591.695	1.583	62060511	0.88	100	97591.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	505.402	1.677	1513954	0.79	100	505.4	80	120	
Al	27	1	No Gas	100522.727	3.248	2152453888	1.80	100	100522.7	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	697.154	4.241	9571479	1.82	100	697.2	80	120	ICSB Main CR1 Failed
Ag	107	1	No Gas	98.353	1.098	2174499	0.81	100	98.4	80	120	
Cd	111	1	No Gas	97.571	2.096	453231	1.57	100	97.6	80	120	
Sr	88	1	No Gas	109.156	2.687	4866704	2.23	100	109.2	80	120	ICSB Main CR1 Failed
Mo	95	1	No Gas	2010.708	2.676	18547406	2.12	100	2010.7	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	102.703	0.552	1474015	1.60	100	102.7	80	120	ICSB Main CR1 Failed
Sb	121	1	No Gas	94.020	3.750	2036373	1.86	100	94.0	80	120	
Ba	137	1	No Gas	92.903	1.617	698523	0.81	100	92.9	80	120	
Tl	205	1	No Gas	94.362	1.382	3949522	0.88	100	94.4	80	120	
Tl	203	1	No Gas	93.898	0.984	1705353	0.96	100	93.9	80	120	
Pb	208	1	No Gas	95.472	1.007	6014613	0.98	100	95.5	80	120	
U	238	1	No Gas	99.682	2.186	6419572	2.03	100	99.7	80	120	
Ca	43	2	He	110897.548	2.928	391225	1.84	100	110897.5	80	120	ICSB Main CR1 Failed
Sb	121	2	He	92.019	1.716	1024732	0.66	100	92.0	80	120	
Ti	47	2	He	2171.989	2.273	745072	1.16	100	2172.0	80	120	
Cu	63	1	No Gas	98.968	4.030	1965022	2.31	100	99.0	80	120	
Se	82	1	No Gas	100.166	4.013	31347	1.91	100	100.2	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	1498660	0.97	1709693	87.66	70	120	
Ge	72	2	He	1280568	1.13	1348381	94.97	70	120	
Ge	72	1	No Gas	3738785	2.00	4032148	92.72	70	120	
In	115	1	No Gas	4144944	1.21	4757365	87.13	70	120	
Bi	209	1	No Gas	3809576	0.55	4387752	86.82	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	199CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T17:58:03-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	92515	0.00
Be	9	1	No Gas	82	4.33
V	51	2	He	5349	0.02
Cr	52	2	He	9340	0.02
Fe	56	2	He	50434	0.00
Se	78	2	He	260	3.60
As	75	2	He	372	2.27
Ca	44	2	He	2487	0.04
Na	23	2	He	454082	0.00
Mg	24	2	He	2317	0.08
K	39	2	He	171327	0.00
Mn	55	2	He	3400	0.25
Co	59	2	He	250	1.60
Ni	60	2	He	1243	0.83
Cu	63	2	He	1843	0.53
Zn	66	2	He	4324	0.16
Al	27	2	He	10758	0.04
B	11	1	No Gas	13942	0.01
Al	27	1	No Gas	364554	0.00
Si	28	1	No Gas	1432781	0.00
Ag	107	1	No Gas	657	2.79
Cd	111	1	No Gas	33	103.92
Sr	88	1	No Gas	3557	0.07
Mo	95	1	No Gas	263	9.82
Sn	118	1	No Gas	3801	0.15
Sb	121	1	No Gas	480	2.42
Ba	137	1	No Gas	627	1.40
Tl	205	1	No Gas	843	0.72
Tl	203	1	No Gas	380	6.61
Pb	208	1	No Gas	2650	0.22
U	238	1	No Gas	630	1.82
Ca	43	2	He	143	19.67
Sb	121	2	He	250	5.77
Ti	47	2	He	20	661.44
Cu	63	1	No Gas	11161	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1626896	0.96
Ge	72	2	He	1361459	1.26
Ge	72	1	No Gas	4246540	1.95
In	115	1	No Gas	4838645	0.88

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4469823	1.58

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	200CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:00:22-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10672	0.02
V	51	2	He	24299	0.00
Cr	52	2	He	31316	0.00
Fe	56	2	He	2097319	0.00
Se	78	2	He	565	0.89
As	75	2	He	3783	0.07
Ca	44	2	He	14001	0.04
Na	23	2	He	722157	0.00
Mg	24	2	He	191653	0.00
K	39	2	He	395313	0.00
Mn	55	2	He	19558	0.00
Co	59	2	He	31180	0.00
Ni	60	2	He	9003	0.00
Cu	63	2	He	22462	0.02
Zn	66	2	He	8650	0.06
Al	27	2	He	11865	0.02
B	11	1	No Gas	41378	0.00
Al	27	1	No Gas	386618	0.00
Si	28	1	No Gas	1520287	0.00
Ag	107	1	No Gas	52531	0.00
Cd	111	1	No Gas	11278	0.02
Sr	88	1	No Gas	103385	0.00
Mo	95	1	No Gas	20059	0.01
Sn	118	1	No Gas	36441	0.00
Sb	121	1	No Gas	48072	0.01
Ba	137	1	No Gas	17415	0.01
Tl	205	1	No Gas	98401	0.00
Tl	203	1	No Gas	41242	0.01
Pb	208	1	No Gas	145817	0.00
U	238	1	No Gas	147015	0.00
Ca	43	2	He	727	0.89
Sb	121	2	He	22724	0.01
Cu	63	1	No Gas	55226	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	1607839	1.19	1626896	98.83	70	120	
Ge	72	2	He	1375533	1.95	1361459	101.03	70	120	
Ge	72	1	No Gas	4240243	0.50	4246540	99.85	70	120	

Calibration Standard Report

In	115	1	No Gas	4894003	0.17	4838645	101.14	70	120	
Bi	209	1	No Gas	4532440	0.35	4469823	101.40	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	201CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:02:41-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	25947	0.01
V	51	2	He	50666	0.00
Cr	52	2	He	60825	0.00
Fe	56	2	He	4982479	0.00
Se	78	2	He	1038	0.66
As	75	2	He	8994	0.03
Ca	44	2	He	32064	0.01
Na	23	2	He	1244872	0.00
Mg	24	2	He	467028	0.00
K	39	2	He	735852	0.00
Mn	55	2	He	44483	0.01
Co	59	2	He	76246	0.00
Ni	60	2	He	21354	0.01
Cu	63	2	He	53841	0.00
Zn	66	2	He	15986	0.04
Al	27	2	He	13510	0.01
B	11	1	No Gas	83644	0.00
Al	27	1	No Gas	461554	0.00
Si	28	1	No Gas	1669197	0.00
Ag	107	1	No Gas	131219	0.00
Cd	111	1	No Gas	28174	0.01
Sr	88	1	No Gas	254121	0.00
Mo	95	1	No Gas	50118	0.00
Sn	118	1	No Gas	84596	0.00
Sb	121	1	No Gas	118399	0.00
Ba	137	1	No Gas	42329	0.01
Tl	205	1	No Gas	247978	0.00
Tl	203	1	No Gas	104426	0.00
Pb	208	1	No Gas	360906	0.00
U	238	1	No Gas	364616	0.00
Ca	43	2	He	1787	0.78
Sb	121	2	He	56475	0.00
Cu	63	1	No Gas	117919	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	1602391	1.13	1626896	98.49	70	120	
Ge	72	2	He	1381893	0.92	1361459	101.50	70	120	
Ge	72	1	No Gas	4245415	0.13	4246540	99.97	70	120	

Calibration Standard Report

In	115	1	No Gas	4959496	1.17	4838645	102.50	70	120	
Bi	209	1	No Gas	4569891	2.53	4469823	102.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	202CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:05:00-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	53374	0.01
V	51	2	He	99951	0.00
Cr	52	2	He	116564	0.00
Fe	56	2	He	10226031	0.00
Se	78	2	He	1846	0.10
As	75	2	He	17856	0.01
Ca	44	2	He	63560	0.00
Na	23	2	He	2077062	0.00
Mg	24	2	He	1089253	0.00
K	39	2	He	1467223	0.00
Mn	55	2	He	87114	0.00
Co	59	2	He	161011	0.00
Ni	60	2	He	41948	0.00
Cu	63	2	He	110605	0.00
Zn	66	2	He	24980	0.00
Al	27	2	He	16513	0.02
B	11	1	No Gas	157917	0.00
Al	27	1	No Gas	568907	0.00
Si	28	1	No Gas	2016618	0.00
Ag	107	1	No Gas	269182	0.00
Cd	111	1	No Gas	57368	0.00
Sr	88	1	No Gas	522297	0.00
Mo	95	1	No Gas	106135	0.00
Sn	118	1	No Gas	171292	0.00
Sb	121	1	No Gas	244577	0.00
Ba	137	1	No Gas	86635	0.00
Tl	205	1	No Gas	486110	0.00
Tl	203	1	No Gas	203781	0.00
Pb	208	1	No Gas	737372	0.00
U	238	1	No Gas	751516	0.00
Ca	43	2	He	3654	0.16
Sb	121	2	He	117396	0.00
Cu	63	1	No Gas	228255	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	1643430	2.30	1626896	101.02	70	120	
Ge	72	2	He	1368442	0.53	1361459	100.51	70	120	
Ge	72	1	No Gas	4261923	0.79	4246540	100.36	70	120	

Calibration Standard Report

In	115	1	No Gas	4992345	0.95	4838645	103.18	70	120	
Bi	209	1	No Gas	4619102	1.17	4469823	103.34	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	203CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:07:18-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	540249	0.00
V	51	2	He	1049363	0.00
Cr	52	2	He	1151536	0.00
Fe	56	2	He	101227902	0.00
Se	78	2	He	16547	0.01
As	75	2	He	180104	0.00
Ca	44	2	He	623474	0.00
Na	23	2	He	16589724	0.00
Mg	24	2	He	10487450	0.00
K	39	2	He	12494338	0.00
Mn	55	2	He	841518	0.00
Co	59	2	He	1703016	0.00
Ni	60	2	He	409183	0.00
Cu	63	2	He	1081699	0.00
Zn	66	2	He	215996	0.00
Al	27	2	He	76031	0.00
B	11	1	No Gas	1566852	0.00
Al	27	1	No Gas	2752326	0.00
Si	28	1	No Gas	7476286	0.00
Ag	107	1	No Gas	2928085	0.00
Cd	111	1	No Gas	572378	0.00
Sr	88	1	No Gas	5520538	0.00
Mo	95	1	No Gas	1097873	0.00
Sn	118	1	No Gas	1795316	0.00
Sb	121	1	No Gas	2622448	0.00
Ba	137	1	No Gas	869613	0.00
Tl	205	1	No Gas	5286901	0.00
Tl	203	1	No Gas	2245440	0.00
Pb	208	1	No Gas	7993191	0.00
U	238	1	No Gas	8260453	0.00
Ca	43	2	He	36121	0.01
Sb	121	2	He	1295000	0.00
Cu	63	1	No Gas	2304798	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	1551669	1.33	1626896	95.38	70	120	
Ge	72	2	He	1357842	0.79	1361459	99.73	70	120	
Ge	72	1	No Gas	4244269	1.25	4246540	99.95	70	120	

Calibration Standard Report

In	115	1	No Gas	4877629	0.52	4838645	100.81	70	120	
Bi	209	1	No Gas	4474149	1.46	4469823	100.10	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	204CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:09:28-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1115830	0.00
V	51	2	He	2009370	0.00
Cr	52	2	He	2228181	0.00
Fe	56	2	He	198353130	0.00
Se	78	2	He	31598	0.00
As	75	2	He	354663	0.00
Ca	44	2	He	1387023	0.00
Na	23	2	He	32132985	0.00
Mg	24	2	He	20449105	0.00
K	39	2	He	24345265	0.00
Mn	55	2	He	1892879	0.00
Co	59	2	He	3214113	0.00
Ni	60	2	He	789909	0.00
Cu	63	2	He	2234657	0.00
Zn	66	2	He	419145	0.00
Al	27	2	He	136251	0.00
B	11	1	No Gas	2997313	0.00
Al	27	1	No Gas	4928114	0.00
Si	28	1	No Gas	13169606	0.00
Ag	107	1	No Gas	5580571	0.00
Cd	111	1	No Gas	1102377	0.00
Sr	88	1	No Gas	10599502	0.00
Mo	95	1	No Gas	2260718	0.00
Sn	118	1	No Gas	3453474	0.00
Sb	121	1	No Gas	4982773	0.00
Ba	137	1	No Gas	1817667	0.00
Tl	205	1	No Gas	10038931	0.00
Tl	203	1	No Gas	4309066	0.00
Pb	208	1	No Gas	15199802	0.00
U	238	1	No Gas	15816232	0.00
Ca	43	2	He	71496	0.00
Sb	121	2	He	2599596	0.00
Cu	63	1	No Gas	4258630	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	1514899	0.93	1626896	93.12	70	120	
Ge	72	2	He	1356149	2.60	1361459	99.61	70	120	
Ge	72	1	No Gas	4136479	2.05	4246540	97.41	70	120	

Calibration Standard Report

In	115	1	No Gas	4759572	1.33	4838645	98.37	70	120	
Bi	209	1	No Gas	4362309	1.12	4469823	97.59	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	207_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:20:40-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	-0.093	-84.9	87671	1.3	0.5	
Be	9	1	No Gas	0.006	67.0	113	20.4	0.5	
V	51	2	He	-0.110	-13.4	4262	1.2	2.5	
Cr	52	2	He	-0.129	-33.0	7949	4.9	2.5	
Fe	56	2	He	0.368	25.7	54489	1.7	100	
Se	78	2	He	0.006	246.5	263	3.4	2	
As	75	2	He	-0.002	-485.9	372	3.7	2.5	
Ca	44	2	He	-6.229	-57.8	2074	9.4	100	
Na	23	2	He	-71.937	-11.6	341588	3.8	100	
Mg	24	2	He	-0.070	-109.8	2260	3.5	100	
K	39	2	He	-9.284	-33.5	161090	0.6	100	
Mn	55	2	He	-0.131	-9.1	2320	6.9	2.5	
Co	59	2	He	0.000	-1116.0	243	30.8	2.5	
Ni	60	2	He	-0.059	-25.1	1013	8.3	2.5	
Cu	63	2	He	-0.026	-29.1	1563	2.9	2	
Zn	66	2	He	-0.746	-9.6	2780	2.9	2.5	
Al	27	2	He	0.620	107.2	11221	1.2	5	
B	11	1	No Gas	2.406	4.7	20997	2.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.365	82.8	374051	0.7	5	
Si	28	1	No Gas	-4.856	-29.2	1377422	0.3	10	
Ag	107	1	No Gas	-0.003	-158.7	570	25.8	2.5	
Cd	111	1	No Gas	0.000	-2624.0	33	17.3	1	
Sr	88	1	No Gas	0.007	74.9	3967	5.2	2.5	
Mo	95	1	No Gas	0.046	11.2	790	8.3	2.5	
Sn	118	1	No Gas	0.015	262.9	4095	14.6	5	
Sb	121	1	No Gas	0.047	12.8	1700	10.2	2.5	
Ba	137	1	No Gas	-0.008	-53.5	563	8.8	2.5	
Tl	205	1	No Gas	0.105	35.8	6589	32.8	1	
Tl	203	1	No Gas	0.107	41.1	2897	37.1	1	
Pb	208	1	No Gas	-0.005	-17.6	2370	4.1	2.5	
U	238	1	No Gas	0.004	6.0	980	1.0	2.5	
Ca	43	2	He	-7.784	-30.7	117	9.9	100	
Sb	121	2	He	0.026	22.3	597	10.6	2.5	
Ti	47	2	He	0.019	322.1	27	78.1	2.5	
Cu	63	1	No Gas	-0.108	-5.6	8793	1.9	2.5	
Se	82	1	No Gas	0.062	602.8	827	15.4	2	
Zr	90	1	No Gas	0.109	19.9	5645	14.3	2.5	
Zr	90	2	He	0.081	4.8	2807	4.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1575721	0.62	1626896	96.85	70	120	
Ge	72	2	He	1371141	2.61	1361459	100.71	70	120	
Ge	72	1	No Gas	4256245	1.25	4246540	100.23	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4894556	2.06	4838645	101.16	70	120	
Bi	209	1	No Gas	4688082	1.84	4469823	104.88	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	208LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:23:01-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	199CALB.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	4.618	4.618	7.25	192673	0.00	5	
Be	9	1	No Gas	4.568	4.568	3.06	26027	0.02	5	
V	51	2	He	4.397	4.397	0.21	50766	0.01	5	
Cr	52	2	He	4.550	4.550	2.24	61317	0.01	5	
Fe	56	2	He	487.189	487.189	1.51	5000386	0.01	500	
Se	78	2	He	4.871	4.871	5.07	1049	0.46	5	
As	75	2	He	4.738	4.738	1.44	8969	0.05	5	
Ca	44	2	He	429.991	429.991	2.94	32268	1.33	500	
Na	23	2	He	409.041	409.041	1.55	1125215	0.04	500	
Mg	24	2	He	450.961	450.961	1.23	475298	0.09	500	
K	39	2	He	451.867	451.867	0.53	733690	0.06	500	
Mn	55	2	He	4.649	4.649	4.07	43159	0.01	5	
Co	59	2	He	4.625	4.625	1.39	76981	0.01	5	
Ni	60	2	He	4.940	4.940	2.34	21280	0.02	5	
Cu	63	2	He	4.654	4.654	1.62	54530	0.01	5	
Zn	66	2	He	4.776	4.776	7.96	14545	0.03	5	
Al	27	2	He	3.753	3.753	19.98	13350	0.03	5	
B	11	1	No Gas	22.643	22.643	2.07	87075	0.03	25	
Al	27	1	No Gas	3.942	3.942	5.48	460668	0.00	5	
Si	28	1	No Gas	15.281	15.281	7.38	1629121	0.00	25	NewName2 Main CR1 Failed
Ag	107	1	No Gas	4.524	4.524	2.71	132968	0.00	5	
Cd	111	1	No Gas	4.857	4.857	1.63	28034	0.02	5	
Sr	88	1	No Gas	4.542	4.542	3.43	255459	0.00	5	
Mo	95	1	No Gas	4.400	4.400	4.51	51574	0.01	5	
Sn	118	1	No Gas	4.506	4.506	1.99	85175	0.01	5	
Sb	121	1	No Gas	4.613	4.613	1.92	119875	0.00	5	
Ba	137	1	No Gas	4.589	4.589	4.91	43544	0.01	5	
Tl	205	1	No Gas	4.687	4.687	0.56	251221	0.00	5	
Tl	203	1	No Gas	4.637	4.637	1.90	106469	0.00	5	
Pb	208	1	No Gas	4.469	4.469	0.44	364059	0.00	5	
U	238	1	No Gas	4.386	4.386	1.22	369133	0.00	5	
Ca	43	2	He	488.136	488.136	8.31	1927	25.33	500	
Sb	121	2	He	4.385	4.385	0.19	58337	0.01	5	
Ti	47	2	He	4.709	4.709	8.88	1720	0.27	5	
Cu	63	1	No Gas	4.780	4.780	2.10	117313	0.00	5	
Se	82	1	No Gas	5.294	5.294	13.73	2634	0.20	5	
Zr	90	1	No Gas	4.215	4.215	2.20	153216	0.00	5	
Zr	90	2	He	4.045	4.045	2.19	67930	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1633444	1.73	1626896	100.40	70	120	
Ge	72	2	He	1383699	1.15	1361459	101.63	70	120	
Ge	72	1	No Gas	4276025	0.63	4246540	100.69	70	120	
In	115	1	No Gas	4965946	1.37	4838645	102.63	70	120	
Bi	209	1	No Gas	4618328	0.24	4469823	103.32	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	209LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:25:22-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	199CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.013	2.013	10.63	134741	0.00	2	
Be	9	1	No Gas	1.838	1.838	4.56	10397	0.02	2	
V	51	2	He	1.841	1.841	2.15	24530	0.01	2	
Cr	52	2	He	1.935	1.935	2.05	31684	0.01	2	
Fe	56	2	He	205.245	205.245	0.53	2146667	0.01	200	
Se	78	2	He	1.811	1.811	8.64	559	0.32	2	
As	75	2	He	1.916	1.916	2.27	3872	0.05	2	
Ca	44	2	He	165.770	165.770	9.89	14061	1.18	200	
Na	23	2	He	60.747	60.747	7.81	562792	0.01	200	NewName Main CR1 Failed
Mg	24	2	He	181.571	181.571	2.03	193689	0.09	200	
K	39	2	He	172.523	172.523	3.16	389634	0.04	200	
Mn	55	2	He	1.779	1.779	4.31	18736	0.01	2	
Co	59	2	He	1.879	1.879	2.96	31584	0.01	2	
Ni	60	2	He	1.994	1.994	3.21	9387	0.02	2	
Cu	63	2	He	1.832	1.832	4.22	22716	0.01	2	
Zn	66	2	He	1.237	1.237	7.46	7055	0.02	2	NewName Main CR1 Failed
Al	27	2	He	1.281	1.281	68.27	11815	0.01	2	NewName Main CR1 Failed
B	11	1	No Gas	9.404	9.404	5.29	43805	0.02	10	
Al	27	1	No Gas	0.954	0.954	18.90	385342	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	2.027	2.027	14.65	1450975	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	1.878	1.878	2.45	54727	0.00	2	
Cd	111	1	No Gas	1.972	1.972	2.02	11225	0.02	2	
Sr	88	1	No Gas	1.848	1.848	1.64	104436	0.00	2	
Mo	95	1	No Gas	1.819	1.819	4.52	21144	0.01	2	
Sn	118	1	No Gas	1.919	1.919	3.62	37899	0.01	2	
Sb	121	1	No Gas	1.885	1.885	2.69	48694	0.00	2	
Ba	137	1	No Gas	1.835	1.835	2.26	17522	0.01	2	
Tl	205	1	No Gas	1.892	1.892	3.38	100709	0.00	2	
Tl	203	1	No Gas	1.824	1.824	2.56	41617	0.00	2	
Pb	208	1	No Gas	1.841	1.841	0.86	149761	0.00	2	
U	238	1	No Gas	1.813	1.813	0.97	151174	0.00	2	
Ca	43	2	He	162.789	162.789	29.96	743	21.90	200	
Sb	121	2	He	1.752	1.752	2.94	23575	0.01	2	
Ti	47	2	He	1.844	1.844	14.73	690	0.27	200	
Cu	63	1	No Gas	1.936	1.936	2.45	53586	0.00	2	
Se	82	1	No Gas	2.194	2.194	24.64	1547	0.14	2	
Zr	90	1	No Gas	1.732	1.732	0.58	63039	0.00	2	
Zr	90	2	He	1.607	1.607	3.21	28030	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1614078	2.09	1626896	99.21	70	120	
Ge	72	2	He	1390433	0.34	1361459	102.13	70	120	
Ge	72	1	No Gas	4227122	0.79	4246540	99.54	70	120	
In	115	1	No Gas	4887657	0.69	4838645	101.01	70	120	
Bi	209	1	No Gas	4564350	1.50	4469823	102.11	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	210_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:27:42-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.042	160.1	92538	0.7	0.5	
Be	9	1	No Gas	0.000	732.9	82	7.1	0.5	
V	51	2	He	-0.088	-8.1	4534	0.9	2.5	
Cr	52	2	He	-0.126	-28.0	8073	4.9	2.5	
Fe	56	2	He	-0.001	-15493.6	51327	2.2	100	
Se	78	2	He	0.060	248.8	274	7.9	1	
As	75	2	He	-0.038	-32.4	310	6.0	2.5	
Ca	44	2	He	-6.640	-41.1	2070	7.8	100	
Na	23	2	He	-129.384	-2.7	251968	0.9	100	
Mg	24	2	He	-0.259	-98.8	2087	12.9	100	
K	39	2	He	-12.280	-22.0	159153	0.7	100	
Mn	55	2	He	-0.126	-6.9	2380	1.5	2.5	
Co	59	2	He	-0.006	-45.7	160	25.0	2.5	
Ni	60	2	He	-0.021	-264.9	1177	18.2	2.5	
Cu	63	2	He	-0.045	-20.5	1373	8.0	1	
Zn	66	2	He	-0.783	-8.5	2734	6.2	2.5	
Al	27	2	He	-0.518	-77.3	10614	2.4	5	
B	11	1	No Gas	0.040	300.4	13934	1.8	0.5	
Al	27	1	No Gas	-0.327	-42.0	358006	0.9	5	
Si	28	1	No Gas	-4.556	-31.8	1382120	0.8	10	
Ag	107	1	No Gas	-0.012	-6.6	307	8.2	2.5	
Cd	111	1	No Gas	-0.004	-28.1	13	43.3	1	
Sr	88	1	No Gas	-0.004	-25.2	3380	1.6	2.5	
Mo	95	1	No Gas	0.009	30.2	373	8.2	2.5	
Sn	118	1	No Gas	-0.017	-19.0	3544	1.6	5	
Sb	121	1	No Gas	0.002	284.7	537	29.1	2.5	
Ba	137	1	No Gas	0.027	48.5	880	13.4	2.5	
Tl	205	1	No Gas	-0.002	-90.3	767	11.8	1	
Tl	203	1	No Gas	-0.002	-145.2	350	17.8	1	
Pb	208	1	No Gas	-0.016	-9.6	1463	8.7	2.5	
U	238	1	No Gas	0.000	140.4	677	6.0	2.5	
Ca	43	2	He	-7.188	-36.0	120	8.3	100	
Sb	121	2	He	0.001	263.7	270	16.1	2.5	
Ti	47	2	He	-0.020	-75.7	13	43.3	2.5	
Se	82	1	No Gas	0.100	288.2	840	11.4	1	
Zr	90	1	No Gas	0.027	17.6	2737	6.1	2.5	
Zr	90	2	He	0.031	28.9	2030	9.2	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1611484	0.92	1626896	99.05	70	120	
Ge	72	2	He	1386072	1.85	1361459	101.81	70	120	
Ge	72	1	No Gas	4259249	0.46	4246540	100.30	70	120	
In	115	1	No Gas	4897516	0.64	4838645	101.22	70	120	
Bi	209	1	No Gas	4600442	1.11	4469823	102.92	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	211_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:30:03-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.762	5.135	2177348	2.60	100	100.8	90	110	
Be	9	1	No Gas	97.317	3.410	530229	1.46	100	97.3	90	110	
V	51	2	He	99.310	0.936	1011731	2.13	100	99.3	90	110	
Cr	52	2	He	103.400	0.981	1167003	2.41	100	103.4	90	110	
Fe	56	2	He	10147.417	0.920	101378658	2.10	10000	101.5	90	110	
Se	78	2	He	101.514	1.699	16339	1.84	100	101.5	90	110	
As	75	2	He	101.270	0.880	180814	0.67	100	101.3	90	110	
Ca	44	2	He	9205.211	0.841	628326	0.70	10000	92.1	90	110	
Na	23	2	He	10166.286	0.547	16667158	1.91	10000	101.7	90	110	
Mg	24	2	He	10227.257	0.826	10543285	0.68	10000	102.3	90	110	
K	39	2	He	10151.369	2.363	12524246	0.89	10000	101.5	90	110	
Mn	55	2	He	99.312	1.018	836903	0.57	100	99.3	90	110	
Co	59	2	He	103.635	1.788	1690095	0.82	100	103.6	90	110	
Ni	60	2	He	101.214	0.695	404334	1.14	100	101.2	90	110	
Cu	63	2	He	96.224	1.392	1071877	0.18	100	96.2	90	110	
Zn	66	2	He	101.070	1.117	215421	0.84	100	101.1	90	110	
Al	27	2	He	103.922	0.869	76661	0.77	100	103.9	90	110	
B	11	1	No Gas	495.932	3.050	1548436	1.55	500	99.2	90	110	
Al	27	1	No Gas	107.163	1.978	2849325	1.45	100	107.2	90	110	
Si	28	1	No Gas	501.972	0.971	7398134	0.67	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.962	3.015	2907092	2.39	100	103.0	90	110	
Cd	111	1	No Gas	100.873	2.631	561350	1.70	100	100.9	90	110	
Sr	88	1	No Gas	103.516	1.862	5543641	1.44	100	103.5	90	110	
Mo	95	1	No Gas	98.331	5.669	1107016	4.76	100	98.3	90	110	
Sn	118	1	No Gas	102.477	2.299	1787994	1.58	100	102.5	90	110	
Sb	121	1	No Gas	100.726	1.787	2554481	2.54	100	100.7	90	110	
Ba	137	1	No Gas	95.396	1.950	861498	1.00	100	95.4	90	110	
Tl	205	1	No Gas	101.450	1.775	5214753	1.64	100	101.4	90	110	
Tl	203	1	No Gas	102.122	1.396	2248292	1.65	100	102.1	90	110	
Pb	208	1	No Gas	102.392	0.613	7967270	0.80	100	102.4	90	110	
U	238	1	No Gas	101.216	0.855	8181992	0.66	100	101.2	90	110	
Ca	43	2	He	10215.240	1.656	36749	1.54	10000	102.2	90	110	
Sb	121	2	He	94.611	2.703	1232324	3.64	100	94.6	90	110	
Ti	47	2	He	100.611	0.788	35740	0.81	100	100.6	90	110	
Cu	63	1	No Gas	103.142	2.178	2253530	3.07	100	103.1	90	110	
Se	82	1	No Gas	101.172	1.946	34949	1.19	100	101.2	90	110	
Zr	90	1	No Gas	102.344	2.102	3550275	1.19	100	102.3	90	110	
Zr	90	2	He	103.243	0.781	1667716	1.49	100	103.2	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1566895	2.37	1626896	96.31	70	120	
Ge	72	2	He	1360091	1.48	1361459	99.90	70	120	
Ge	72	1	No Gas	4188490	1.06	4246540	98.63	70	120	
In	115	1	No Gas	4793428	0.96	4838645	99.07	70	120	
Bi	209	1	No Gas	4443525	0.52	4469823	99.41	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	213_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:34:48-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	102.442	1.935	2183619	1.32	100	102.4	90	110	
Be	9	1	No Gas	100.080	1.751	538117	1.35	100	100.1	90	110	
V	51	2	He	102.476	0.969	1043031	1.29	100	102.5	90	110	
Cr	52	2	He	103.396	0.322	1166056	1.17	100	103.4	90	110	
Fe	56	2	He	10203.476	1.372	101853715	0.46	10000	102.0	90	110	
Se	78	2	He	102.162	2.193	16429	1.54	100	102.2	90	110	
As	75	2	He	100.669	0.759	179627	0.73	100	100.7	90	110	
Ca	44	2	He	9288.909	0.819	633615	1.09	10000	92.9	90	110	
Na	23	2	He	10198.230	0.390	16705354	0.58	10000	102.0	90	110	
Mg	24	2	He	10306.569	0.255	10618386	0.90	10000	103.1	90	110	
K	39	2	He	10146.765	0.277	12512942	1.21	10000	101.5	90	110	
Mn	55	2	He	90.548	1.126	841200	0.85	100	90.5	90	110	
Co	59	2	He	102.838	2.369	1675977	1.63	100	102.8	90	110	
Ni	60	2	He	102.352	0.498	408590	0.63	100	102.4	90	110	
Cu	63	2	He	96.693	0.496	1076477	0.89	100	96.7	90	110	
Zn	66	2	He	101.841	0.613	216894	0.69	100	101.8	90	110	
Al	27	2	He	105.675	2.171	77718	1.42	100	105.7	90	110	
B	11	1	No Gas	509.703	1.855	1570018	1.54	500	101.9	90	110	
Al	27	1	No Gas	108.007	3.108	2835396	2.02	100	108.0	90	110	
Si	28	1	No Gas	511.409	1.045	7423448	0.79	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	104.328	1.796	2964851	2.85	100	104.3	90	110	
Cd	111	1	No Gas	101.371	1.396	567773	2.28	100	101.4	90	110	
Sr	88	1	No Gas	103.484	0.559	5576961	1.12	100	103.5	90	110	
Mo	95	1	No Gas	94.686	3.693	1072803	2.88	100	94.7	90	110	
Sn	118	1	No Gas	102.905	2.001	1807333	3.58	100	102.9	90	110	
Sb	121	1	No Gas	103.341	1.307	2590223	1.85	100	103.3	90	110	
Ba	137	1	No Gas	95.671	1.349	869511	2.00	100	95.7	90	110	
Tl	205	1	No Gas	103.021	1.084	5340301	2.34	100	103.0	90	110	
Tl	203	1	No Gas	103.209	1.687	2290891	1.00	100	103.2	90	110	
Pb	208	1	No Gas	102.644	0.905	8053384	1.37	100	102.6	90	110	
U	238	1	No Gas	100.535	0.390	8195205	1.69	100	100.5	90	110	
Ca	43	2	He	10292.683	1.731	37000	0.83	10000	102.9	90	110	
Sb	121	2	He	98.267	0.325	1278904	1.24	100	98.3	90	110	
Ti	47	2	He	101.540	1.718	36045	1.26	100	101.5	90	110	
Cu	63	1	No Gas	104.321	2.368	2252497	2.73	100	104.3	90	110	
Se	82	1	No Gas	103.633	2.069	35367	1.97	100	103.6	90	110	
Zr	90	1	No Gas	103.463	0.329	3612221	1.87	100	103.5	90	110	
Zr	90	2	He	103.589	0.763	1672072	0.18	100	103.6	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	1545605	0.58	1626896	95.00	70	120	
Ge	72	2	He	1359137	0.94	1361459	99.83	70	120	
Ge	72	1	No Gas	4139772	0.75	4246540	97.49	70	120	
In	115	1	No Gas	4823570	1.60	4838645	99.69	70	120	
Bi	209	1	No Gas	4480666	1.41	4469823	100.24	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	214_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:37:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.176	51.9	95922	0.6	0.5	
Be	9	1	No Gas	0.023	5.4	213	5.9	0.5	
V	51	2	He	-0.159	-5.4	3781	1.4	2.5	
Cr	52	2	He	-0.106	-20.5	8259	2.7	2.5	
Fe	56	2	He	0.696	8.6	58124	1.6	100	
Se	78	2	He	-0.117	-135.6	245	11.9	2	
As	75	2	He	-0.020	-124.6	341	14.4	2.5	
Ca	44	2	He	-3.740	-112.3	2260	12.5	100	
Na	23	2	He	-144.516	-0.4	226269	1.4	100	
Mg	24	2	He	0.250	87.1	2610	10.1	100	
K	39	2	He	-13.033	-8.2	157437	1.2	100	
Mn	55	2	He	-0.148	-1.6	2050	1.3	2.5	
Co	59	2	He	0.000	-1013.8	247	31.0	2.5	
Ni	60	2	He	-0.042	-37.1	1087	4.5	2.5	
Cu	63	2	He	-0.072	-9.0	1060	6.6	2	
Zn	66	2	He	-0.754	-7.5	2780	3.2	2.5	
Al	27	2	He	0.664	76.1	11318	1.7	5	
B	11	1	No Gas	4.956	19.2	29713	7.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.719	31.9	379050	0.4	5	
Si	28	1	No Gas	-1.682	-42.4	1403484	1.1	10	
Ag	107	1	No Gas	-0.003	-92.8	587	13.2	2.5	
Cd	111	1	No Gas	0.000	183.6	37	15.7	1	
Sr	88	1	No Gas	0.005	71.0	3884	5.3	2.5	
Mo	95	1	No Gas	0.061	21.8	967	16.8	2.5	
Sn	118	1	No Gas	0.023	44.4	4264	5.0	5	
Sb	121	1	No Gas	0.060	9.2	2007	6.1	2.5	
Ba	137	1	No Gas	0.001	226.0	650	2.7	2.5	
Tl	205	1	No Gas	0.121	48.5	7119	42.1	1	
Tl	203	1	No Gas	0.108	42.9	2784	36.4	1	
Pb	208	1	No Gas	-0.005	-68.9	2247	12.3	2.5	
U	238	1	No Gas	0.008	5.4	1300	2.0	2.5	
Ca	43	2	He	-3.302	-400.1	133	35.4	100	
Sb	121	2	He	0.039	22.7	763	15.7	2.5	
Ti	47	2	He	0.017	462.8	27	108.3	2.5	
Cu	63	1	No Gas	-0.085	-11.3	9233	2.5	2.5	
Se	82	1	No Gas	0.162	57.7	853	2.9	2	
Zr	90	1	No Gas	0.121	29.4	6118	21.1	2.5	
Zr	90	2	He	0.080	14.3	2810	7.0	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1620921	2.58	1626896	99.63	70	120	
Ge	72	2	He	1378939	1.46	1361459	101.28	70	120	
Ge	72	1	No Gas	4218635	1.06	4246540	99.34	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4914471	2.24	4838645	101.57	70	120	
Bi	209	1	No Gas	4495573	0.77	4469823	100.58	70	120	

Sample Report

Sample Table

Sample Name	LCS-210597
Data File Name	216SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:41:50-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	0.328	0.328	21.36	96008	0.00	2000	
Be	9	1	No Gas	43.917	43.917	2.52	239638	0.02	2000	
V	51	2	He	41.224	41.224	3.10	421994	0.01	2000	
Cr	52	2	He	42.080	42.080	1.91	479231	0.01	2000	
Fe	56	2	He	4642.991	4642.991	3.91	46291168	0.01	200000	
Se	78	2	He	44.976	44.976	3.06	7366	0.61	2000	
As	75	2	He	44.820	44.820	1.88	80039	0.06	2000	
Ca	44	2	He	4301.845	4301.845	2.59	294239	1.46	200000	
Na	23	2	He	4617.433	4617.433	2.56	7797914	0.06	200000	
Mg	24	2	He	4773.656	4773.656	2.70	4910526	0.10	200000	
K	39	2	He	4738.102	4738.102	3.03	5923317	0.08	200000	
Mn	55	2	He	39.722	39.722	2.75	370267	0.01	2000	
Co	59	2	He	43.953	43.953	2.40	715238	0.01	2000	
Ni	60	2	He	45.552	45.552	1.95	182216	0.02	2000	
Cu	63	2	He	43.315	43.315	0.94	482404	0.01	2000	
Zn	66	2	He	45.072	45.072	3.58	98214	0.05	2000	
Al	27	2	He	101.967	101.967	2.97	75237	0.14	2000	
B	11	1	No Gas	493.195	493.195	1.49	1542064	0.03	2000	
Al	27	1	No Gas	100.993	100.993	5.35	2747804	0.00	2000	
Si	28	1	No Gas	609.767	609.767	4.18	8818226	0.01	2000	
Ag	107	1	No Gas	45.194	45.194	5.13	1278083	0.00	2000	
Cd	111	1	No Gas	45.833	45.833	3.33	255334	0.02	2000	
Sr	88	1	No Gas	99.554	99.554	4.56	5335147	0.00	2000	
Mo	95	1	No Gas	40.672	40.672	3.07	458644	0.01	2000	
Sn	118	1	No Gas	98.071	98.071	4.39	1712534	0.01	2000	
Sb	121	1	No Gas	41.671	41.671	3.35	1073382	0.00	2000	
Ba	137	1	No Gas	42.353	42.353	5.58	383018	0.01	2000	
Tl	205	1	No Gas	44.969	44.969	1.84	2289998	0.00	2000	
Tl	203	1	No Gas	39.740	39.740	2.38	866836	0.00	2000	
Pb	208	1	No Gas	44.438	44.438	0.69	3426198	0.00	2000	
U	238	1	No Gas	0.001	0.001	100.48	710	0.00	2000	
Ca	43	2	He	4855.283	4855.283	4.07	17498	27.75	200000	
Sb	121	2	He	39.684	39.684	2.34	515672	0.01	2000	
Ti	47	2	He	139.598	139.598	3.63	49456	0.28	2000	
Cu	63	1	No Gas	42.672	42.672	2.18	953382	0.00	2000	
Zn	66	1	No Gas	45.134	45.134	3.11	263658	0.02	2000	
Se	82	1	No Gas	43.183	43.183	1.51	15616	0.28	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	1568735	2.33	1626896	96.43	70	120	
Ge	72	2	He	1356861	0.93	1361459	99.66	70	120	
Ge	72	1	No Gas	4255460	2.17	4246540	100.21	70	120	
In	115	1	No Gas	4800666	3.09	4838645	99.22	70	120	

Sample Report

Bi	209	1	No Gas	4401106	2.25	4469823	98.46	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01SD
Data File Name	218SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:46:32-05:00
Sample Type	Sample
Dilution	5
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	25.376	126.880	1.94	646053	0.00	2000	
Be	9	1	No Gas	0.006	0.031	96.20	118	0.01	2000	
V	51	2	He	5.155	25.775	3.15	59324	0.01	2000	
Cr	52	2	He	0.089	0.447	10.34	10651	0.00	2000	
Fe	56	2	He	260.460	1302.299	5.15	2730632	0.01	200000	
Se	78	2	He	1.324	6.618	12.81	483	0.27	2000	
As	75	2	He	1.534	7.670	2.64	3200	0.05	2000	
Ca	44	2	He	7638.326	38191.628	3.58	537582	1.42	200000	
Na	23	2	He	32675.283	163376.416	4.32	54143993	0.06	200000	
Mg	24	2	He	12225.724	61128.620	3.96	12983716	0.09	200000	
K	39	2	He	2885.697	14428.487	3.15	3794946	0.08	200000	
Mn	55	2	He	52.875	264.374	3.52	507871	0.01	2000	
Co	59	2	He	0.080	0.399	5.05	1597	0.00	2000	
Ni	60	2	He	0.179	0.895	2.52	2014	0.01	2000	
Cu	63	2	He	0.023	0.116	46.38	2167	0.00	2000	
Zn	66	2	He	1.861	9.304	16.76	8449	0.02	2000	
Al	27	2	He	17.353	86.766	9.53	22426	0.08	2000	
B	11	1	No Gas	156.822	784.111	2.04	523841	0.03	2000	
Al	27	1	No Gas	15.080	75.402	4.77	728611	0.00	2000	
Si	28	1	No Gas	4064.230	20321.148	4.55	51163083	0.01	2000	>LDR
Ag	107	1	No Gas	-0.012	-0.061	-17.96	313	0.00	2000	
Cd	111	1	No Gas	-0.001	-0.006	-171.74	27	0.00	2000	
Sr	88	1	No Gas	661.797	3308.983	1.68	36102034	0.00	2000	
Mo	95	1	No Gas	2.177	10.883	2.93	25238	0.01	2000	
Sn	118	1	No Gas	0.115	0.573	14.03	5871	0.00	2000	
Sb	121	1	No Gas	0.028	0.142	10.63	1227	0.00	2000	
Ba	137	1	No Gas	8.645	43.224	3.59	80134	0.01	2000	
Tl	205	1	No Gas	0.004	0.018	133.17	1020	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	-5607.01	373	0.00	2000	
Pb	208	1	No Gas	0.003	0.013	40.32	2814	0.00	2000	
U	238	1	No Gas	4.066	20.330	0.60	327196	0.00	2000	
Ca	43	2	He	9479.993	47399.967	4.20	35145	26.97	200000	
Sb	121	2	He	0.029	0.144	17.99	643	0.00	2000	
Ti	47	2	He	0.455	2.273	39.78	187	0.24	2000	
Cu	63	1	No Gas	0.178	0.889	8.67	15269	0.00	2000	
Zn	66	1	No Gas	1.843	9.217	5.39	22896	0.01	2000	
Se	82	1	No Gas	1.446	7.231	26.76	1313	0.11	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	1644882	0.45	1626896	101.11	70	120	
Ge	72	2	He	1401756	1.90	1361459	102.96	70	120	
Ge	72	1	No Gas	4299212	1.89	4246540	101.24	70	120	
In	115	1	No Gas	4885484	1.04	4838645	100.97	70	120	

Sample Report

Bi	209	1	No Gas	4415119	0.70	4469823	98.78	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01MS
Data File Name	219SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:48:52-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	138.299	138.299	0.89	2808669	0.00	2000	
Be	9	1	No Gas	46.254	46.254	1.26	239488	0.02	2000	
V	51	2	He	63.010	63.010	0.88	647820	0.01	2000	
Cr	52	2	He	41.217	41.217	0.26	473659	0.01	2000	
Fe	56	2	He	5760.009	5760.009	0.52	57919716	0.01	200000	
Se	78	2	He	50.280	50.280	1.26	8275	0.61	2000	
As	75	2	He	52.407	52.407	1.64	94341	0.06	2000	
Ca	44	2	He	48220.977	48220.977	2.14	3301601	1.46	200000	
Na	23	2	He	165774.591	165774.591	1.31	266457443	0.06	200000	
Mg	24	2	He	63749.128	63749.128	1.68	66120772	0.10	200000	
K	39	2	He	18146.390	18146.390	1.51	22396466	0.08	200000	
Mn	55	2	He	344.134	344.134	1.74	3209463	0.01	2000	
Co	59	2	He	42.221	42.221	0.20	693034	0.01	2000	
Ni	60	2	He	43.867	43.867	1.51	177033	0.02	2000	
Cu	63	2	He	41.029	41.029	0.81	460986	0.01	2000	
Zn	66	2	He	54.755	54.755	1.25	119430	0.05	2000	
Al	27	2	He	172.686	172.686	2.95	121041	0.14	2000	
B	11	1	No Gas	1321.195	1321.195	1.65	3897872	0.03	2000	
Al	27	1	No Gas	188.859	188.859	9.65	4751373	0.00	2000	
Si	28	1	No Gas	20328.088	20328.088	2.67	243887056	0.01	2000	>LDR
Ag	107	1	No Gas	44.802	44.802	9.36	1237699	0.00	2000	
Cd	111	1	No Gas	45.298	45.298	2.70	246778	0.02	2000	
Sr	88	1	No Gas	3431.014	3431.014	3.04	179732604	0.00	2000	>LDR
Mo	95	1	No Gas	52.965	52.965	2.44	583949	0.01	2000	
Sn	118	1	No Gas	96.007	96.007	2.56	1639957	0.01	2000	
Sb	121	1	No Gas	42.199	42.199	1.70	1070820	0.00	2000	
Ba	137	1	No Gas	86.498	86.498	1.90	764759	0.01	2000	
Tl	205	1	No Gas	45.111	45.111	3.65	2214507	0.00	2000	
Tl	203	1	No Gas	39.994	39.994	3.99	840877	0.00	2000	
Pb	208	1	No Gas	45.380	45.380	2.92	3373388	0.00	2000	
U	238	1	No Gas	22.727	22.727	2.75	1755186	0.00	2000	
Ca	43	2	He	50563.831	50563.831	2.07	182484	27.71	200000	
Sb	121	2	He	39.107	39.107	0.88	512610	0.01	2000	
Ti	47	2	He	138.265	138.265	0.53	49413	0.28	2000	
Cu	63	1	No Gas	43.341	43.341	2.21	953604	0.00	2000	
Zn	66	1	No Gas	57.244	57.244	2.37	326137	0.02	2000	
Se	82	1	No Gas	53.640	53.640	3.28	18910	0.28	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	1488001	0.14	1626896	91.46	70	120	
Ge	72	2	He	1368439	0.75	1361459	100.51	70	120	
Ge	72	1	No Gas	4190534	0.86	4246540	98.68	70	120	
In	115	1	No Gas	4692982	1.80	4838645	96.99	70	120	
Bi	209	1	No Gas	4245392	2.64	4469823	94.98	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01PDS
Data File Name	221SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:53:33-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	136.016	136.016	4.32	2776968	0.00	2000	
Be	9	1	No Gas	94.457	94.457	2.66	491355	0.02	2000	
V	51	2	He	120.635	120.635	1.67	1220507	0.01	2000	
Cr	52	2	He	94.452	94.452	2.66	1060250	0.01	2000	
Fe	56	2	He	10659.859	10659.859	1.37	105854722	0.01	200000	
Se	78	2	He	97.887	97.887	2.78	15671	0.62	2000	
As	75	2	He	101.855	101.855	2.16	180791	0.06	2000	
Ca	44	2	He	51415.891	51415.891	1.90	3477876	1.48	200000	
Na	23	2	He	165628.721	165628.721	1.82	262990696	0.06	200000	
Mg	24	2	He	67983.083	67983.083	1.56	69659229	0.10	200000	
K	39	2	He	23023.452	23023.452	2.01	28024503	0.08	200000	
Mn	55	2	He	380.838	380.838	0.59	3508970	0.01	2000	
Co	59	2	He	92.659	92.659	1.08	1502506	0.01	2000	
Ni	60	2	He	90.343	90.343	1.88	358930	0.03	2000	
Cu	63	2	He	85.919	85.919	2.34	951731	0.01	2000	
Zn	66	2	He	103.259	103.259	2.45	218712	0.05	2000	
Al	27	2	He	171.631	171.631	4.49	118986	0.14	2000	
B	11	1	No Gas	1267.542	1267.542	2.58	3757941	0.03	2000	
Al	27	1	No Gas	163.729	163.729	3.97	4162479	0.00	2000	
Si	28	1	No Gas	19352.445	19352.445	1.87	232096337	0.01	2000	>LDR
Ag	107	1	No Gas	92.984	92.984	1.76	2591957	0.00	2000	
Cd	111	1	No Gas	94.371	94.371	0.62	518576	0.02	2000	
Sr	88	1	No Gas	3144.457	3144.457	1.76	166137758	0.00	2000	>LDR
Mo	95	1	No Gas	106.823	106.823	3.80	1187150	0.01	2000	
Sn	118	1	No Gas	0.611	0.611	0.99	14218	0.00	2000	
Sb	121	1	No Gas	93.733	93.733	3.67	2376405	0.00	2000	
Ba	137	1	No Gas	134.779	134.779	5.07	1200756	0.01	2000	
Tl	205	1	No Gas	103.587	103.587	0.57	5066919	0.00	2000	
Tl	203	1	No Gas	103.625	103.625	3.61	2170757	0.00	2000	
Pb	208	1	No Gas	96.963	96.963	2.02	7179422	0.00	2000	
U	238	1	No Gas	22.082	22.082	0.61	1699132	0.00	2000	
Ca	43	2	He	54518.124	54518.124	2.41	194350	28.05	200000	
Sb	121	2	He	81.829	81.829	0.73	1059442	0.01	2000	
Ti	47	2	He	98.933	98.933	3.76	34928	0.28	2000	
Cu	63	1	No Gas	94.328	94.328	2.07	2061188	0.00	2000	
Zn	66	1	No Gas	104.969	104.969	1.67	587486	0.02	2000	
Se	82	1	No Gas	99.912	99.912	3.16	34518	0.29	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	1495595	2.01	1626896	91.93	70	120	
Ge	72	2	He	1352179	2.01	1361459	99.32	70	120	
Ge	72	1	No Gas	4187819	0.68	4246540	98.62	70	120	
In	115	1	No Gas	4732895	2.32	4838645	97.81	70	120	
Bi	209	1	No Gas	4228460	0.43	4469823	94.60	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	225_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:02:55-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	103.114	4.150	2183725	2.47	100	103.1	90	110	
Be	9	1	No Gas	99.242	3.559	530331	2.26	100	99.2	90	110	
V	51	2	He	98.559	2.914	990044	3.19	100	98.6	90	110	
Cr	52	2	He	103.340	1.110	1150108	2.75	100	103.3	90	110	
Fe	56	2	He	10203.716	0.799	100513752	1.76	10000	102.0	90	110	
Se	78	2	He	99.907	1.921	15859	1.28	100	99.9	90	110	
As	75	2	He	99.623	0.393	175416	1.80	100	99.6	90	110	
Ca	44	2	He	9149.191	0.763	615864	1.90	10000	91.5	90	110	
Na	23	2	He	10237.518	1.578	16543506	0.61	10000	102.4	90	110	
Mg	24	2	He	10297.737	1.101	10467863	1.21	10000	103.0	90	110	
K	39	2	He	10151.962	1.183	12351942	1.09	10000	101.5	90	110	
Mn	55	2	He	90.596	0.734	830501	1.57	100	90.6	90	110	
Co	59	2	He	103.936	1.502	1672018	3.43	100	103.9	90	110	
Ni	60	2	He	101.444	1.473	399566	0.99	100	101.4	90	110	
Cu	63	2	He	99.933	4.060	1097706	4.19	100	99.9	90	110	
Zn	66	2	He	100.799	1.241	211853	0.80	100	100.8	90	110	
Al	27	2	He	103.298	0.742	75206	1.67	100	103.3	90	110	
B	11	1	No Gas	522.730	4.102	1599622	1.93	500	104.5	90	110	
Al	27	1	No Gas	106.951	2.398	2793240	2.39	100	107.0	90	110	
Si	28	1	No Gas	518.282	5.402	7458695	5.71	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.087	1.866	2926785	2.36	100	102.1	90	110	
Cd	111	1	No Gas	100.790	1.367	569523	1.78	100	100.8	90	110	
Sr	88	1	No Gas	102.772	0.956	5588106	1.49	100	102.8	90	110	
Mo	95	1	No Gas	93.447	1.744	1068384	1.63	100	93.4	90	110	
Sn	118	1	No Gas	102.009	2.619	1807239	3.05	100	102.0	90	110	
Sb	121	1	No Gas	104.001	0.273	2589896	1.82	100	104.0	90	110	
Ba	137	1	No Gas	94.022	0.566	862125	1.02	100	94.0	90	110	
Tl	205	1	No Gas	101.381	2.503	5285799	0.89	100	101.4	90	110	
Tl	203	1	No Gas	102.276	3.729	2283519	2.18	100	102.3	90	110	
Pb	208	1	No Gas	103.443	3.243	8163452	1.76	100	103.4	90	110	
U	238	1	No Gas	101.225	2.438	8299807	0.86	100	101.2	90	110	
Ca	43	2	He	10163.404	3.243	36048	2.32	10000	101.6	90	110	
Sb	121	2	He	99.255	0.531	1274706	2.26	100	99.3	90	110	
Ti	47	2	He	100.494	2.286	35195	1.08	100	100.5	90	110	
Cu	63	1	No Gas	103.752	2.474	2225611	2.74	100	103.8	90	110	
Se	82	1	No Gas	102.318	2.680	34699	2.26	100	102.3	90	110	
Zr	90	1	No Gas	100.899	0.931	3553918	1.42	100	100.9	90	110	
Zr	90	2	He	103.338	2.000	1645866	2.10	100	103.3	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	1536659	2.21	1626896	94.45	70	120	
Ge	72	2	He	1341181	2.01	1361459	98.51	70	120	
Ge	72	1	No Gas	4113086	1.69	4246540	96.86	70	120	
In	115	1	No Gas	4866259	0.54	4838645	100.57	70	120	
Bi	209	1	No Gas	4508227	1.64	4469823	100.86	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	226_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:05:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.079	43.1	92334	0.1	0.5	
Be	9	1	No Gas	0.026	13.0	222	9.1	0.5	
V	51	2	He	0.170	18.1	7084	3.1	2.5	
Cr	52	2	He	-0.129	-22.3	7909	3.7	2.5	
Fe	56	2	He	0.547	17.2	55985	0.8	100	
Se	78	2	He	-0.062	-314.6	251	13.9	2	
As	75	2	He	-0.013	-140.8	349	8.3	2.5	
Ca	44	2	He	-5.939	-14.0	2087	4.5	100	
Na	23	2	He	-149.354	-1.0	216016	1.7	100	
Mg	24	2	He	0.674	16.7	3017	3.6	100	
K	39	2	He	-16.057	-17.1	151970	0.5	100	
Mn	55	2	He	-0.154	-7.6	1977	6.9	2.5	
Co	59	2	He	-0.001	-686.8	240	34.1	2.5	
Ni	60	2	He	-0.058	-60.6	1013	15.7	2.5	
Cu	63	2	He	-0.060	-18.9	1177	11.3	2	
Zn	66	2	He	-0.823	-6.7	2607	5.8	2.5	
Al	27	2	He	0.412	234.9	11028	3.9	5	
B	11	1	No Gas	8.468	9.6	40338	5.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.293	61.4	366947	0.7	5	
Si	28	1	No Gas	-10.228	-9.6	1293259	0.6	10	
Ag	107	1	No Gas	-0.006	-17.7	483	6.3	2.5	
Cd	111	1	No Gas	0.001	408.7	37	41.7	1	
Sr	88	1	No Gas	0.033	14.6	5274	6.0	2.5	
Mo	95	1	No Gas	0.060	33.4	933	25.1	2.5	
Sn	118	1	No Gas	0.019	59.9	4101	5.5	5	
Sb	121	1	No Gas	0.052	20.9	1797	15.3	2.5	
Ba	137	1	No Gas	-0.007	-96.8	560	9.9	2.5	
Tl	205	1	No Gas	0.111	40.5	6766	37.8	1	
Tl	203	1	No Gas	0.098	50.8	2617	45.6	1	
Pb	208	1	No Gas	-0.011	-7.4	1820	3.1	2.5	
U	238	1	No Gas	0.007	17.1	1210	10.0	2.5	
Ca	43	2	He	-9.452	-23.7	110	9.1	100	
Sb	121	2	He	0.037	19.2	733	13.7	2.5	
Ti	47	2	He	-0.029	-1.7	10	0.0	2.5	
Cu	63	1	No Gas	-0.252	-2.6	5545	2.2	2.5	
Se	82	1	No Gas	0.129	312.2	837	15.6	2	
Zr	90	1	No Gas	0.103	28.9	5335	20.5	2.5	
Zr	90	2	He	0.060	20.9	2460	8.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1594559	0.86	1626896	98.01	70	120	
Ge	72	2	He	1363655	1.77	1361459	100.16	70	120	
Ge	72	1	No Gas	4194075	0.75	4246540	98.76	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4792635	1.12	4838645	99.05	70	120	
Bi	209	1	No Gas	4560251	2.66	4469823	102.02	70	120	

Sample Report

Sample Table

Sample Name	LCS-210597
Data File Name	227SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:07:36-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	106.788	106.788	3.15	2196762	0.00	2000	
Be	9	1	No Gas	50.434	50.434	2.76	262145	0.02	2000	
V	51	2	He	46.610	46.610	2.08	471145	0.01	2000	
Cr	52	2	He	47.722	47.722	2.48	536119	0.01	2000	
Fe	56	2	He	5238.079	5238.079	2.55	51632308	0.01	200000	
Se	78	2	He	50.694	50.694	3.88	8177	0.62	2000	
As	75	2	He	50.012	50.012	2.28	88270	0.06	2000	
Ca	44	2	He	4770.264	4770.264	3.31	322359	1.48	200000	
Na	23	2	He	5178.165	5178.165	1.52	8594064	0.06	200000	
Mg	24	2	He	5394.245	5394.245	2.55	5486772	0.10	200000	
K	39	2	He	5232.271	5232.271	1.47	6451147	0.08	200000	
Mn	55	2	He	45.456	45.456	2.54	418468	0.01	2000	
Co	59	2	He	49.040	49.040	3.03	788994	0.01	2000	
Ni	60	2	He	50.586	50.586	1.95	199955	0.03	2000	
Cu	63	2	He	48.932	48.932	3.03	538499	0.01	2000	
Zn	66	2	He	51.703	51.703	3.35	110767	0.05	2000	
Al	27	2	He	122.394	122.394	2.62	87177	0.14	2000	
B	11	1	No Gas	537.029	537.029	2.71	1598046	0.03	2000	
Al	27	1	No Gas	124.559	124.559	2.97	3216743	0.00	2000	
Si	28	1	No Gas	619.775	619.775	3.58	8702449	0.01	2000	
Ag	107	1	No Gas	53.104	53.104	2.62	1507672	0.00	2000	
Cd	111	1	No Gas	50.847	50.847	1.29	284556	0.02	2000	
Sr	88	1	No Gas	106.513	106.513	1.32	5736285	0.00	2000	
Mo	95	1	No Gas	44.713	44.713	0.91	506405	0.01	2000	
Sn	118	1	No Gas	105.319	105.319	2.77	1847461	0.01	2000	
Sb	121	1	No Gas	50.900	50.900	7.43	1275459	0.00	2000	
Ba	137	1	No Gas	48.333	48.333	1.96	439144	0.01	2000	
Tl	205	1	No Gas	50.087	50.087	0.90	2649737	0.00	2000	
Tl	203	1	No Gas	44.547	44.547	0.94	1009437	0.00	2000	
Pb	208	1	No Gas	50.065	50.065	0.72	4010201	0.00	2000	
U	238	1	No Gas	94.987	94.987	1.20	7901675	0.00	2000	
Ca	43	2	He	5425.258	5425.258	1.71	19317	28.09	200000	
Sb	121	2	He	44.938	44.938	2.43	577445	0.01	2000	
Ti	47	2	He	150.651	150.651	2.36	52775	0.29	2000	
Cu	63	1	No Gas	48.921	48.921	2.44	1062416	0.00	2000	
Zn	66	1	No Gas	52.884	52.884	2.22	298718	0.02	2000	
Se	82	1	No Gas	50.858	50.858	3.80	17759	0.29	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	1494399	2.64	1626896	91.86	70	120	
Ge	72	2	He	1341761	2.37	1361459	98.55	70	120	
Ge	72	1	No Gas	4142818	2.64	4246540	97.56	70	120	
In	115	1	No Gas	4819679	1.71	4838645	99.61	70	120	

Sample Report

Bi	209	1	No Gas	4572476	0.54	4469823	102.30	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01SD
Data File Name	229SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:12:16-05:00
Sample Type	Sample
Dilution	100
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	1.330	132.950	7.29	116265	0.00	2000	
Be	9	1	No Gas	0.010	0.985	45.49	132	0.01	2000	
V	51	2	He	0.464	46.371	2.31	10096	0.00	2000	
Cr	52	2	He	-0.113	-11.266	-12.02	8113	0.00	2000	
Fe	56	2	He	11.612	1161.151	1.40	167207	0.01	200000	
Se	78	2	He	0.046	4.585	220.87	268	0.02	2000	
As	75	2	He	0.028	2.759	14.09	423	0.01	2000	
Ca	44	2	He	358.312	35831.181	2.51	26977	1.33	200000	
Na	23	2	He	1460.092	146009.231	0.74	2796331	0.05	200000	
Mg	24	2	He	544.683	54468.347	0.88	566614	0.10	200000	
K	39	2	He	111.567	11156.712	4.00	308457	0.04	200000	
Mn	55	2	He	2.403	240.296	3.22	25785	0.01	2000	
Co	59	2	He	0.001	0.078	670.43	263	0.00	2000	
Ni	60	2	He	-0.040	-3.977	-90.60	1087	0.00	2000	
Cu	63	2	He	-0.062	-6.183	-21.63	1160	-0.01	2000	
Zn	66	2	He	-0.368	-36.785	-12.21	3567	-0.01	2000	
Al	27	2	He	0.203	20.260	101.40	10931	0.00	2000	
B	11	1	No Gas	11.731	1173.103	1.49	49581	0.02	2000	
Al	27	1	No Gas	0.664	66.366	29.58	372286	0.00	2000	
Si	28	1	No Gas	182.117	18211.721	1.31	3558370	0.01	2000	
Ag	107	1	No Gas	-0.009	-0.934	-22.45	390	0.00	2000	
Cd	111	1	No Gas	-0.001	-0.059	-291.18	30	0.00	2000	
Sr	88	1	No Gas	33.043	3304.333	2.84	1786090	0.00	2000	
Mo	95	1	No Gas	0.121	12.109	4.16	1637	0.01	2000	
Sn	118	1	No Gas	0.002	0.156	412.44	3824	0.00	2000	
Sb	121	1	No Gas	0.008	0.793	32.23	670	0.00	2000	
Ba	137	1	No Gas	0.407	40.692	4.68	4327	0.01	2000	
Tl	205	1	No Gas	0.004	0.404	117.60	1063	0.00	2000	
Tl	203	1	No Gas	-0.001	-0.075	-418.52	367	0.00	2000	
Pb	208	1	No Gas	-0.016	-1.567	-4.76	1440	0.00	2000	
U	238	1	No Gas	0.198	19.833	0.48	16925	0.00	2000	
Ca	43	2	He	424.267	42426.701	11.36	1670	25.40	200000	
Sb	121	2	He	0.007	0.735	81.56	347	0.00	2000	
Ti	47	2	He	0.028	2.821	269.26	30	0.09	2000	
Cu	63	1	No Gas	-0.224	-22.387	-5.16	6095	0.00	2000	
Zn	66	1	No Gas	-0.366	-36.569	-24.32	10124	0.00	2000	
Se	82	1	No Gas	-0.021	-2.106	-452.04	780	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1561409	1.38	1626896	95.97	70	120	
Ge	72	2	He	1367086	2.13	1361459	100.41	70	120	
Ge	72	1	No Gas	4157612	1.30	4246540	97.91	70	120	
In	115	1	No Gas	4832319	1.30	4838645	99.87	70	120	

Sample Report

Bi	209	1	No Gas	4514745	1.26	4469823	101.01	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01PDS
Data File Name	230SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:14:36-05:00
Sample Type	Sample
Dilution	20
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	6.570	131.409	1.54	214698	0.00	2000	
Be	9	1	No Gas	93.319	1866.376	1.06	484606	0.02	2000	
V	51	2	He	82.400	1647.994	2.32	818089	0.01	2000	
Cr	52	2	He	82.099	1641.978	2.18	903826	0.01	2000	
Fe	56	2	He	9323.696	186473.919	1.46	90675905	0.01	200000	
Se	78	2	He	88.830	1776.595	1.94	13951	0.64	2000	
As	75	2	He	89.825	1796.494	0.86	156190	0.06	2000	
Ca	44	2	He	9917.559	198351.187	1.67	658871	1.51	200000	
Na	23	2	He	16808.559	336171.186	2.28	26537171	0.06	200000	
Mg	24	2	He	12050.557	241011.145	1.97	12094126	0.10	200000	
K	39	2	He	9783.950	195678.992	1.54	11758136	0.08	200000	
Mn	55	2	He	91.430	1828.591	1.25	827432	0.01	2000	
Co	59	2	He	90.660	1813.205	3.26	1439283	0.01	2000	
Ni	60	2	He	88.442	1768.847	1.53	344096	0.03	2000	
Cu	63	2	He	83.994	1679.884	1.61	911210	0.01	2000	
Zn	66	2	He	90.272	1805.436	2.22	187780	0.05	2000	
Al	27	2	He	94.289	1885.785	2.19	68686	0.14	2000	
B	11	1	No Gas	544.704	10894.084	1.30	1619434	0.03	2000	
Al	27	1	No Gas	98.908	1978.152	2.11	2626083	0.00	2000	
Si	28	1	No Gas	1427.018	28540.366	2.40	18209633	0.01	2000	
Ag	107	1	No Gas	91.473	1829.461	1.41	2540176	0.00	2000	
Cd	111	1	No Gas	93.214	1864.287	0.84	510154	0.02	2000	
Sr	88	1	No Gas	157.572	3151.449	1.31	8296392	0.00	2000	
Mo	95	1	No Gas	84.802	1696.044	0.86	939145	0.01	2000	
Sn	118	1	No Gas	0.005	0.103	102.49	3791	0.00	2000	
Sb	121	1	No Gas	91.519	1830.385	1.91	2293495	0.00	2000	
Ba	137	1	No Gas	90.012	1800.234	0.53	799395	0.01	2000	
Tl	205	1	No Gas	102.379	2047.576	1.64	5205935	0.00	2000	
Tl	203	1	No Gas	104.267	2085.341	2.65	2271019	0.00	2000	
Pb	208	1	No Gas	94.028	1880.563	1.12	7237983	0.00	2000	
U	238	1	No Gas	1.002	20.043	3.49	80770	0.00	2000	
Ca	43	2	He	11076.025	221520.506	4.64	38775	28.56	200000	
Sb	121	2	He	77.685	1553.705	2.56	984917	0.01	2000	
Ti	47	2	He	89.881	1797.612	2.28	31086	0.29	2000	
Cu	63	1	No Gas	93.426	1868.523	2.71	2017912	0.00	2000	
Zn	66	1	No Gas	94.747	1894.932	1.78	525279	0.02	2000	
Se	82	1	No Gas	90.782	1815.630	1.41	31073	0.29	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	1492624	1.56	1626896	91.75	70	120	
Ge	72	2	He	1324023	1.58	1361459	97.25	70	120	
Ge	72	1	No Gas	4138967	0.89	4246540	97.47	70	120	
In	115	1	No Gas	4713079	1.30	4838645	97.40	70	120	

Sample Report

Bi	209	1	No Gas	4395291	1.46	4469823	98.33	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01MSD
Data File Name	231SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:16:57-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	142.253	142.253	2.05	2761029	0.01	2000	
Be	9	1	No Gas	46.948	46.948	1.09	232512	0.02	2000	
V	51	2	He	62.745	62.745	0.67	635730	0.01	2000	
Cr	52	2	He	41.662	41.662	1.28	471720	0.01	2000	
Fe	56	2	He	5727.372	5727.372	0.64	56754049	0.01	200000	
Se	78	2	He	49.862	49.862	3.11	8089	0.62	2000	
As	75	2	He	52.252	52.252	2.59	92692	0.06	2000	
Ca	44	2	He	48534.167	48534.167	0.64	3274508	1.48	200000	
Na	23	2	He	164454.834	164454.834	1.37	260498016	0.06	200000	
Mg	24	2	He	64542.435	64542.435	0.81	65966399	0.10	200000	
K	39	2	He	18349.719	18349.719	0.31	22315219	0.08	200000	
Mn	55	2	He	342.097	342.097	1.27	3144212	0.01	2000	
Co	59	2	He	42.104	42.104	0.46	681080	0.01	2000	
Ni	60	2	He	44.029	44.029	0.62	175102	0.03	2000	
Cu	63	2	He	41.195	41.195	1.09	456115	0.01	2000	
Zn	66	2	He	55.301	55.301	0.96	118821	0.05	2000	
Al	27	2	He	168.188	168.188	0.80	116440	0.14	2000	
B	11	1	No Gas	1331.487	1331.487	1.06	3757306	0.04	2000	
Al	27	1	No Gas	179.435	179.435	4.36	4362353	0.00	2000	
Si	28	1	No Gas	20086.919	20086.919	3.39	232086510	0.01	2000	>LDR
Ag	107	1	No Gas	42.173	42.173	6.77	1160703	0.00	2000	
Cd	111	1	No Gas	45.019	45.019	1.73	244160	0.02	2000	
Sr	88	1	No Gas	3311.786	3311.786	1.65	172718471	0.00	2000	>LDR
Mo	95	1	No Gas	52.329	52.329	1.48	574348	0.01	2000	
Sn	118	1	No Gas	95.276	95.276	1.52	1620188	0.01	2000	
Sb	121	1	No Gas	43.386	43.386	3.30	1060201	0.00	2000	
Ba	137	1	No Gas	86.090	86.090	1.18	757687	0.01	2000	
Tl	205	1	No Gas	44.891	44.891	3.10	2238633	0.00	2000	
Tl	203	1	No Gas	39.548	39.548	2.51	844620	0.00	2000	
Pb	208	1	No Gas	44.610	44.610	1.10	3368310	0.00	2000	
U	238	1	No Gas	22.974	22.974	1.92	1801820	0.00	2000	
Ca	43	2	He	50755.987	50755.987	0.74	180500	28.12	200000	
Sb	121	2	He	39.849	39.849	1.42	514732	0.01	2000	
Ti	47	2	He	138.827	138.827	0.88	48894	0.28	2000	
Cu	63	1	No Gas	43.240	43.240	2.28	916328	0.00	2000	
Zn	66	1	No Gas	57.290	57.290	3.05	314327	0.02	2000	
Se	82	1	No Gas	54.319	54.319	4.62	18430	0.29	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	1423351	0.46	1626896	87.49	70	120	
Ge	72	2	He	1348568	0.13	1361459	99.05	70	120	
Ge	72	1	No Gas	4037072	2.27	4246540	95.07	70	120	
In	115	1	No Gas	4670599	0.14	4838645	96.53	70	120	
Bi	209	1	No Gas	4310428	1.49	4469823	96.43	70	120	

Sample Report

Sample Table

Sample Name	HS24040784-01
Data File Name	232SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:19:18-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	20.206	20.206	3.98	501484	0.00	2000	
Be	9	1	No Gas	0.175	0.175	6.11	1018	0.02	2000	
V	51	2	He	2.040	2.040	2.31	26040	0.01	2000	
Cr	52	2	He	4.413	4.413	2.27	58783	0.01	2000	
Fe	56	2	He	889.437	889.437	2.09	8939798	0.01	200000	
Se	78	2	He	0.476	0.476	11.81	335	0.14	2000	
As	75	2	He	0.960	0.960	2.03	2085	0.05	2000	
Ca	44	2	He	32994.978	32994.978	1.24	2248018	1.47	200000	
Na	23	2	He	206339.702	206339.702	0.83	329836715	0.06	200000	>LDR
Mg	24	2	He	23117.659	23117.659	1.71	23856343	0.10	200000	
K	39	2	He	1018.789	1018.789	0.54	1412580	0.07	200000	
Mn	55	2	He	206.721	206.721	3.09	1919904	0.01	2000	
Co	59	2	He	3.637	3.637	1.75	59611	0.01	2000	
Ni	60	2	He	9.369	9.369	1.90	38592	0.02	2000	
Cu	63	2	He	7.489	7.489	2.11	85203	0.01	2000	
Zn	66	2	He	117.637	117.637	0.18	250287	0.05	2000	
Al	27	2	He	179.625	179.625	3.16	124807	0.14	2000	
B	11	1	No Gas	37.492	37.492	6.85	127770	0.03	2000	
Al	27	1	No Gas	178.485	178.485	3.65	4485581	0.00	2000	
Si	28	1	No Gas	14061.215	14061.215	1.87	168191057	0.01	2000	>LDR
Ag	107	1	No Gas	0.005	0.005	61.94	767	0.00	2000	
Cd	111	1	No Gas	0.201	0.201	6.94	1130	0.02	2000	
Sr	88	1	No Gas	611.748	611.748	2.35	32156505	0.00	2000	
Mo	95	1	No Gas	0.561	0.561	3.29	6458	0.01	2000	
Sn	118	1	No Gas	0.113	0.113	9.31	5625	0.00	2000	
Sb	121	1	No Gas	0.516	0.516	5.42	13487	0.00	2000	
Ba	137	1	No Gas	337.603	337.603	1.55	2993167	0.01	2000	
Tl	205	1	No Gas	0.093	0.093	46.06	5498	0.00	2000	
Tl	203	1	No Gas	0.089	0.089	51.80	2300	0.00	2000	
Pb	208	1	No Gas	0.487	0.487	3.43	39858	0.00	2000	
U	238	1	No Gas	1.287	1.287	2.50	103003	0.00	2000	
Ca	43	2	He	32791.790	32791.790	3.15	117772	27.84	200000	
Sb	121	2	He	0.484	0.484	2.20	6562	0.01	2000	
Ti	47	2	He	3.325	3.325	16.86	1200	0.28	2000	
Cu	63	1	No Gas	8.987	8.987	1.51	205337	0.00	2000	
Zn	66	1	No Gas	122.013	122.013	2.85	677465	0.02	2000	
Se	82	1	No Gas	2.046	2.046	9.20	1477	0.14	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	1546887	2.24	1626896	95.08	70	120	
Ge	72	2	He	1361408	1.50	1361459	100.00	70	120	
Ge	72	1	No Gas	4167729	1.65	4246540	98.14	70	120	
In	115	1	No Gas	4707834	1.30	4838645	97.30	70	120	
Bi	209	1	No Gas	4373700	1.56	4469823	97.85	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	237_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:34:28-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	107.060	2.001	2211352	2.43	100	107.1	90	110	
Be	9	1	No Gas	102.561	0.933	535252	1.01	100	102.6	90	110	
V	51	2	He	99.924	1.004	1008087	1.81	100	99.9	90	110	
Cr	52	2	He	103.215	0.205	1153548	1.13	100	103.2	90	110	
Fe	56	2	He	10152.462	1.068	100440425	1.35	10000	101.5	90	110	
Se	78	2	He	102.386	1.259	16317	0.38	100	102.4	90	110	
As	75	2	He	101.061	1.212	178700	1.07	100	101.1	90	110	
Ca	44	2	He	9175.754	1.755	620290	1.84	10000	91.8	90	110	
Na	23	2	He	10320.350	2.592	16748025	2.61	10000	103.2	90	110	
Mg	24	2	He	10408.036	1.365	10626054	1.30	10000	104.1	90	110	
K	39	2	He	10242.189	2.930	12513750	2.43	10000	102.4	90	110	
Mn	55	2	He	90.156	0.807	830032	0.49	100	90.2	90	110	
Co	59	2	He	104.688	1.827	1690868	1.50	100	104.7	90	110	
Ni	60	2	He	101.594	0.620	401921	0.79	100	101.6	90	110	
Cu	63	2	He	98.632	2.734	1088347	3.72	100	98.6	90	110	
Zn	66	2	He	102.933	1.289	217199	1.20	100	102.9	90	110	
Al	27	2	He	104.624	1.401	76369	2.08	100	104.6	90	110	
B	11	1	No Gas	521.362	1.579	1558362	1.01	500	104.3	90	110	
Al	27	1	No Gas	105.142	1.987	2812674	0.97	100	105.1	90	110	
Si	28	1	No Gas	495.479	3.108	7347217	1.84	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.419	1.853	2921761	2.42	100	103.4	90	110	
Cd	111	1	No Gas	101.732	0.638	566435	0.70	100	101.7	90	110	
Sr	88	1	No Gas	103.138	0.638	5526027	1.01	100	103.1	90	110	
Mo	95	1	No Gas	92.569	0.435	1042942	0.88	100	92.6	90	110	
Sn	118	1	No Gas	102.692	1.610	1792525	1.04	100	102.7	90	110	
Sb	121	1	No Gas	101.180	2.364	2574788	0.55	100	101.2	90	110	
Ba	137	1	No Gas	95.402	0.255	861990	0.51	100	95.4	90	110	
Tl	205	1	No Gas	105.313	1.580	5399152	1.01	100	105.3	90	110	
Tl	203	1	No Gas	104.961	2.168	2304474	0.91	100	105.0	90	110	
Pb	208	1	No Gas	103.481	1.410	8030755	0.70	100	103.5	90	110	
U	238	1	No Gas	101.795	2.479	8206306	1.04	100	101.8	90	110	
Ca	43	2	He	10485.368	1.715	37351	0.81	10000	104.9	90	110	
Sb	121	2	He	99.497	2.462	1283367	3.18	100	99.5	90	110	
Ti	47	2	He	99.519	1.523	35012	1.70	100	99.5	90	110	
Cu	63	1	No Gas	103.622	1.584	2272393	2.74	100	103.6	90	110	
Se	82	1	No Gas	101.529	1.820	35200	0.85	100	101.5	90	110	
Zr	90	1	No Gas	101.905	1.096	3536778	0.92	100	101.9	90	110	
Zr	90	2	He	102.773	1.513	1643899	0.53	100	102.8	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	1500133	0.68	1626896	92.21	70	120	
Ge	72	2	He	1346908	1.00	1361459	98.93	70	120	
Ge	72	1	No Gas	4204802	2.56	4246540	99.02	70	120	
In	115	1	No Gas	4795267	0.58	4838645	99.10	70	120	
Bi	209	1	No Gas	4432611	1.98	4469823	99.17	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	238_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:36:48-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.056	119.7	89621	1.0	0.5	
Be	9	1	No Gas	0.013	58.4	150	27.3	0.5	
V	51	2	He	0.110	3.2	6595	1.1	2.5	
Cr	52	2	He	-0.113	-24.8	8243	2.8	2.5	
Fe	56	2	He	0.429	29.4	55869	3.3	100	
Se	78	2	He	-0.109	-182.8	247	11.8	2	
As	75	2	He	-0.022	-34.6	340	5.2	2.5	
Ca	44	2	He	-6.985	-17.8	2054	4.4	100	
Na	23	2	He	-141.817	-1.7	232434	1.4	100	
Mg	24	2	He	-0.126	-133.7	2234	8.8	100	
K	39	2	He	-16.659	-12.5	154154	0.4	100	
Mn	55	2	He	-0.152	-13.2	2030	10.3	2.5	
Co	59	2	He	-0.004	-50.8	193	16.6	2.5	
Ni	60	2	He	-0.086	-20.3	920	8.2	2.5	
Cu	63	2	He	-0.073	-18.0	1057	14.2	2	
Zn	66	2	He	-0.575	-12.7	3184	3.6	2.5	
Al	27	2	He	0.397	166.3	11235	3.2	5	
B	11	1	No Gas	6.824	10.5	34297	5.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.284	48.4	368336	0.3	5	
Si	28	1	No Gas	-10.993	-19.7	1289616	1.5	10	
Ag	107	1	No Gas	-0.009	-36.1	400	23.8	2.5	
Cd	111	1	No Gas	0.004	93.8	57	36.7	1	
Sr	88	1	No Gas	0.002	97.8	3747	3.5	2.5	
Mo	95	1	No Gas	0.044	28.6	777	17.9	2.5	
Sn	118	1	No Gas	0.007	307.2	4024	9.4	5	
Sb	121	1	No Gas	0.052	11.3	1803	8.8	2.5	
Ba	137	1	No Gas	-0.008	-88.8	563	11.5	2.5	
Tl	205	1	No Gas	0.107	49.0	6585	42.0	1	
Tl	203	1	No Gas	0.110	55.4	2887	47.4	1	
Pb	208	1	No Gas	-0.012	-29.7	1780	15.3	2.5	
U	238	1	No Gas	0.008	9.4	1293	4.0	2.5	
Ca	43	2	He	-13.592	-72.4	97	36.3	100	
Sb	121	2	He	0.034	13.7	713	9.5	2.5	
Ti	47	2	He	-0.001	-2065.1	20	50.0	2.5	
Cu	63	1	No Gas	-0.289	-4.1	4744	4.6	2.5	
Se	82	1	No Gas	0.114	330.3	837	16.2	2	
Zr	90	1	No Gas	0.116	23.2	5961	15.3	2.5	
Zr	90	2	He	0.070	12.9	2677	6.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1555709	0.96	1626896	95.62	70	120	
Ge	72	2	He	1389813	1.28	1361459	102.08	70	120	
Ge	72	1	No Gas	4212286	0.98	4246540	99.19	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4959651	1.03	4838645	102.50	70	120	
Bi	209	1	No Gas	4610439	0.93	4469823	103.15	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	247_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:58:00-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	102.854	4.234	2148825	2.16	100	102.9	90	110	
Be	9	1	No Gas	99.539	3.683	524684	2.00	100	99.5	90	110	
V	51	2	He	96.697	4.995	1018411	4.02	100	96.7	90	110	
Cr	52	2	He	97.858	0.723	1142509	1.72	100	97.9	90	110	
Fe	56	2	He	9808.432	2.457	101321198	2.49	10000	98.1	90	110	
Se	78	2	He	96.155	2.293	16018	2.43	100	96.2	90	110	
As	75	2	He	96.383	1.655	177960	0.91	100	96.4	90	110	
Ca	44	2	He	8694.606	2.332	613855	2.47	10000	86.9	90	110	CCV Main CR1-2 Failed
Na	23	2	He	9775.836	1.863	16588905	1.62	10000	97.8	90	110	
Mg	24	2	He	9771.738	2.110	10416854	1.93	10000	97.7	90	110	
K	39	2	He	9677.545	1.738	12356743	1.77	10000	96.8	90	110	
Mn	55	2	He	86.338	2.164	830139	2.17	100	86.3	90	110	CCV Main CR1-2 Failed
Co	59	2	He	102.427	2.959	1727351	2.59	100	102.4	90	110	
Ni	60	2	He	97.647	1.223	403426	1.61	100	97.6	90	110	
Cu	63	2	He	93.031	1.475	1071759	1.49	100	93.0	90	110	
Zn	66	2	He	97.632	1.549	215347	1.87	100	97.6	90	110	
Al	27	2	He	96.575	4.009	74449	3.05	100	96.6	90	110	
B	11	1	No Gas	524.495	3.970	1583397	2.35	500	104.9	90	110	
Al	27	1	No Gas	102.053	1.340	2811820	1.64	100	102.1	90	110	
Si	28	1	No Gas	481.352	1.788	7364760	1.77	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.711	4.323	3020966	2.37	100	102.7	90	110	
Cd	111	1	No Gas	100.278	2.758	581439	0.83	100	100.3	90	110	
Sr	88	1	No Gas	101.119	3.131	5641659	1.11	100	101.1	90	110	
Mo	95	1	No Gas	94.718	6.012	1110894	4.36	100	94.7	90	110	
Sn	118	1	No Gas	102.424	2.756	1861989	1.27	100	102.4	90	110	
Sb	121	1	No Gas	102.146	1.081	2667038	1.00	100	102.1	90	110	
Ba	137	1	No Gas	94.624	1.865	890430	0.15	100	94.6	90	110	
Tl	205	1	No Gas	102.140	0.988	5566110	0.62	100	102.1	90	110	
Tl	203	1	No Gas	103.155	1.314	2407713	1.68	100	103.2	90	110	
Pb	208	1	No Gas	102.702	1.528	8472202	1.59	100	102.7	90	110	
U	238	1	No Gas	101.701	0.253	8716107	0.79	100	101.7	90	110	
Ca	43	2	He	9430.626	4.471	35085	3.48	10000	94.3	90	110	
Sb	121	2	He	95.532	3.493	1286586	3.88	100	95.5	90	110	
Ti	47	2	He	96.333	3.463	35386	3.30	100	96.3	90	110	
Cu	63	1	No Gas	103.484	2.756	2328053	3.55	100	103.5	90	110	
Se	82	1	No Gas	101.419	0.052	36076	0.94	100	101.4	90	110	
Zr	90	1	No Gas	101.347	2.664	3663042	0.64	100	101.3	90	110	
Zr	90	2	He	97.528	3.056	1628923	2.60	100	97.5	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1515793	1.91	1626896	93.17	70	120	
Ge	72	2	He	1406375	1.00	1361459	103.30	70	120	
Ge	72	1	No Gas	4312695	0.92	4246540	101.56	70	120	
In	115	1	No Gas	4995405	1.99	4838645	103.24	70	120	
Bi	209	1	No Gas	4710995	0.95	4469823	105.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	248_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T20:00:21-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.323	18.2	94006	0.7	0.5	
Be	9	1	No Gas	0.016	53.0	162	28.1	0.5	
V	51	2	He	0.357	4.6	9221	1.3	2.5	
Cr	52	2	He	-0.116	-26.4	8263	3.5	2.5	
Fe	56	2	He	0.597	23.6	57980	2.2	100	
Se	78	2	He	-0.031	-328.0	262	5.3	2	
As	75	2	He	-0.011	-79.8	362	4.1	2.5	
Ca	44	2	He	-8.242	-16.6	1980	5.1	100	
Na	23	2	He	-60.468	-6.0	367567	0.7	100	
Mg	24	2	He	1.276	24.5	3734	8.3	100	
K	39	2	He	-17.045	-17.6	154761	1.6	100	
Mn	55	2	He	-0.212	-7.8	1477	11.0	2.5	
Co	59	2	He	-0.005	-49.7	173	23.3	2.5	
Ni	60	2	He	-0.068	-8.0	1000	2.6	2.5	
Cu	63	2	He	-0.071	-14.5	1083	11.7	2	
Zn	66	2	He	-1.435	-3.3	1360	8.3	2.5	
Al	27	2	He	0.329	178.5	11271	3.1	5	
B	11	1	No Gas	5.508	10.7	29917	6.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.049	587.4	367781	0.9	5	
Si	28	1	No Gas	-16.105	-4.5	1245200	0.5	10	
Ag	107	1	No Gas	-0.006	-33.1	487	12.6	2.5	
Cd	111	1	No Gas	0.007	27.6	77	15.1	1	
Sr	88	1	No Gas	0.014	21.8	4414	4.5	2.5	
Mo	95	1	No Gas	0.056	16.0	927	12.1	2.5	
Sn	118	1	No Gas	0.005	156.0	3977	2.7	5	
Sb	121	1	No Gas	0.051	33.6	1803	23.6	2.5	
Ba	137	1	No Gas	-0.008	-114.2	570	14.4	2.5	
Tl	205	1	No Gas	0.098	47.2	6192	40.5	1	
Tl	203	1	No Gas	0.095	55.6	2607	47.2	1	
Pb	208	1	No Gas	-0.011	-12.3	1867	6.2	2.5	
U	238	1	No Gas	0.008	26.4	1310	13.0	2.5	
Ca	43	2	He	-11.072	-77.2	107	28.6	100	
Sb	121	2	He	0.036	10.2	733	6.7	2.5	
Ti	47	2	He	0.035	165.5	33	62.4	2.5	
Cu	63	1	No Gas	-0.331	-3.7	3891	6.6	2.5	
Se	82	1	No Gas	0.209	198.4	880	16.1	2	
Zr	90	1	No Gas	0.120	20.0	6125	14.8	2.5	
Zr	90	2	He	0.071	14.3	2707	5.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1537403	0.65	1626896	94.50	70	120	
Ge	72	2	He	1399642	0.95	1361459	102.80	70	120	
Ge	72	1	No Gas	4269934	1.05	4246540	100.55	70	120	

Continuing Calibration Blank (CCB) Report

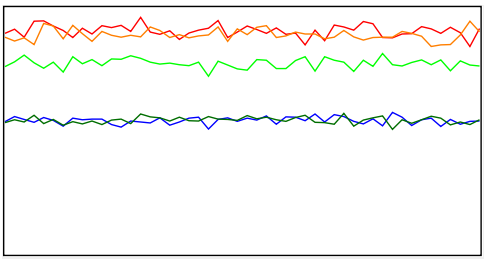
In	115	1	No Gas	4953005	0.76	4838645	102.36	70	120	
Bi	209	1	No Gas	4689917	0.22	4469823	104.92	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq. Date-Time	4/17/2024 9:00:55 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	5000	4533	45326.58		
24	20000	15489	154888.12		
59	50000	27131	271311.84		
115	50000	44499	444992.80		
208	50000	27170	271695.29		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.696	5.000	
24	2.548	5.000	
59	2.683	5.000	
115	2.564	5.000	
208	2.523	5.000	

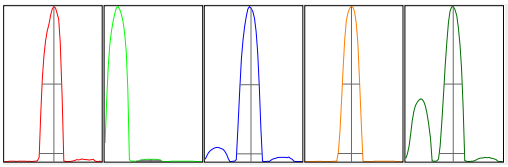
Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	1.100		
59	0.900		
115	0.900		
208	3.600		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.266 %
Doubly Charged	70 / 140 1.016 %

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	4578.81	9.05	8.90 - 9.10	
24	15790.23	23.95	23.90 - 24.10	
59	28210.62	58.95	58.90 - 59.10	
115	44389.25	114.95	114.90 - 115.10	
208	27479.62	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.740		
24	0.63	0.789		
59	0.59	0.778		
115	0.53	0.747		
208	0.55	0.773		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.72 L/min	Dilution Gas	0.35 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	14.4 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

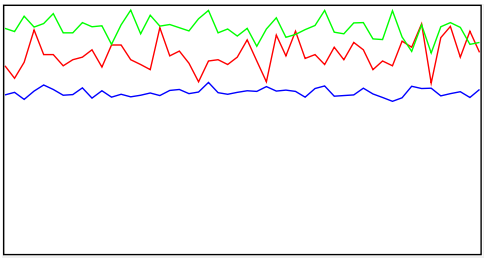
EM

Discriminator	4.0 mV	Analog HV	2361 V	Pulse HV	1483 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	161	1611.29		
24	1000	911	9106.96		
59	20000	13031	130306.00		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

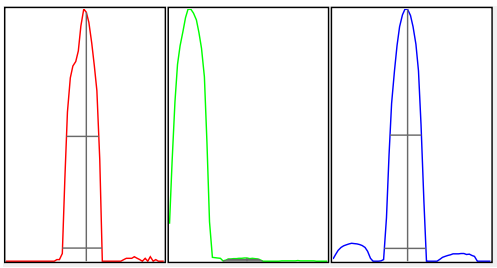
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	7.285	5.000	Fail
24	4.524	5.000	
59	2.510	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.500		
24	0.000		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.726 %
Doubly Charged	70 / 140 0.878 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	164.52	9.05	8.90 - 9.10	
24	922.34	24.00	23.90 - 24.10	
59	13102.20	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.740		
24	0.61	0.739		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.59	0.776		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.72 L/min	Dilution Gas	0.35 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-77 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	199 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm		

EM

Discriminator	4.0 mV	Analog HV	2361 V	Pulse HV	1483 V

HS24040784 Wetchem Cr6_W_7196_DOD

ALS WO# HS24040784

Standard Table Report

04/17/2024 06:31:24 PM

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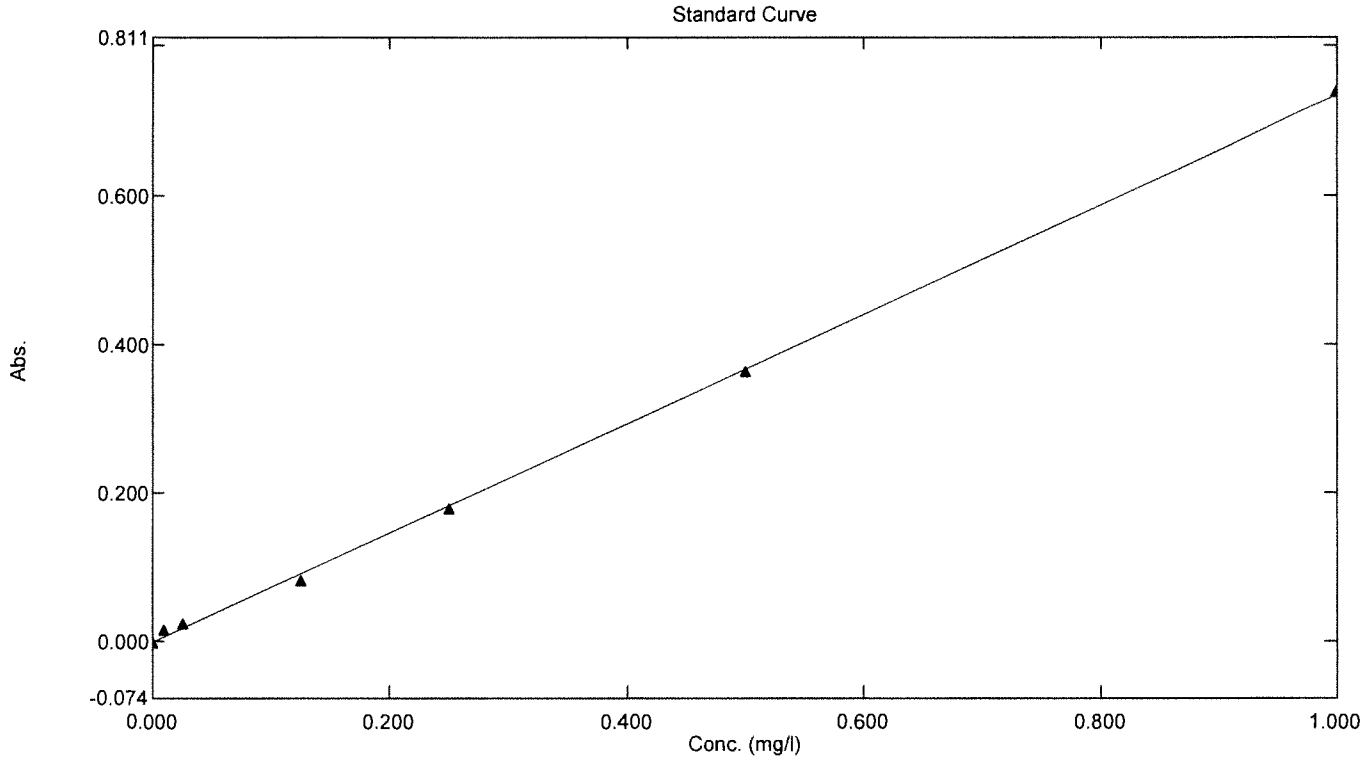

Correlation Coefficient r2 = 0.99943

Standard Table

	Sample ID	Type	Ex	Conc	WL540.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.016	1.000	
3	STD3	Standard		0.025	0.024	1.000	
4	STD4	Standard		0.125	0.082	1.000	
5	STD5	Standard		0.250	0.179	1.000	
6	STD6	Standard		0.500	0.363	1.000	
7	STD7	Standard		1.000	0.737	1.000	05/22/2024
8							

Sample Table Report

04/17/2024 06:31:33 PM

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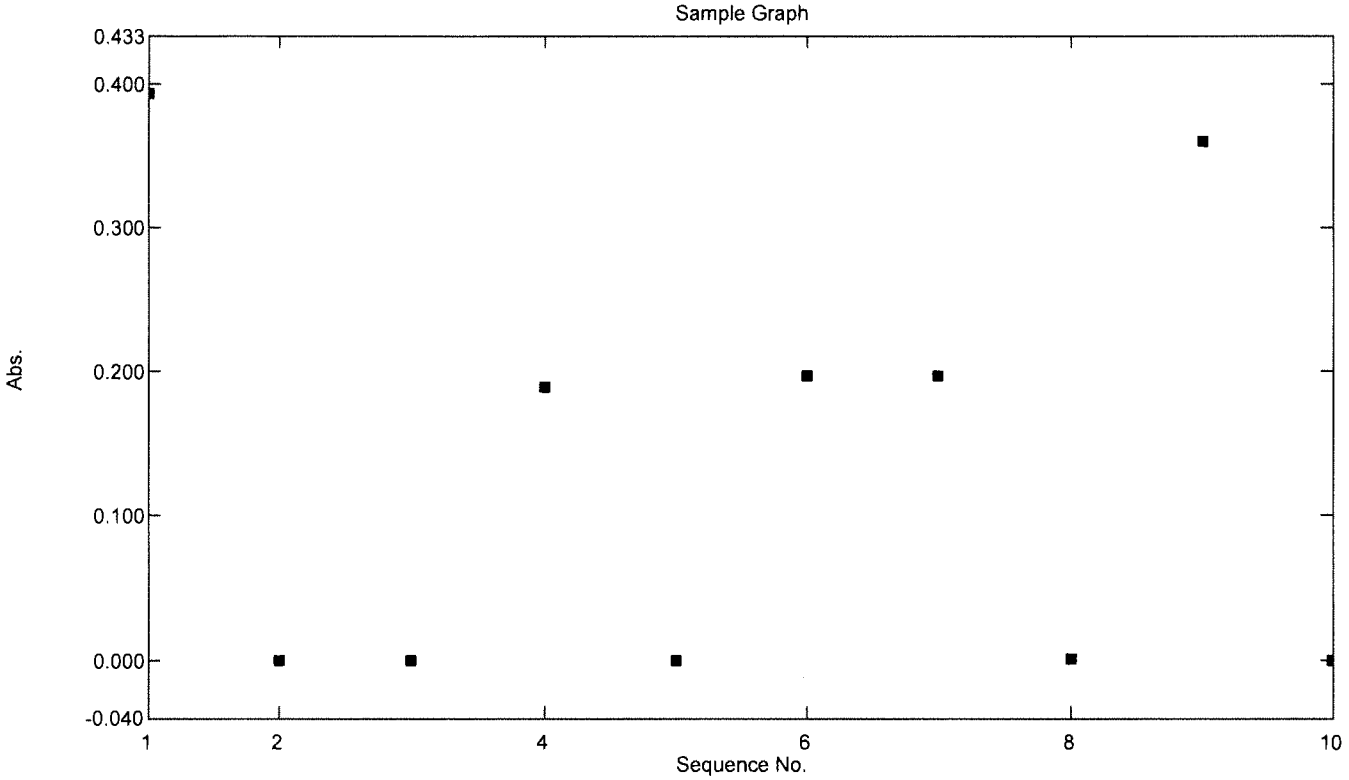

Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
1	CCV	Unknown		04/11/2024	11:42:26 AM	0.537	0.394	325101101 WC-19
2	CCB	Unknown		04/11/2024	11:43:01 AM	-0.000	-0.000	3100608622
3	MBLK	Unknown		04/11/2024	11:43:10 AM	-0.000	-0.000	325101010 WC-29
4	LCS	Unknown		04/11/2024	11:48:22 AM	0.258	0.189	325101004 WC-19
5	HS24040784.01	Unknown		04/11/2024	11:49:44 AM	0.000	0.000	3100608022
6	HS24040784.01MS	Unknown		04/11/2024	11:50:18 AM	0.268	0.197	
7	HS24040784.01MSD	Unknown		04/11/2024	11:50:57 AM	0.268	0.197	
8	HS24040786.01	Unknown		04/11/2024	11:52:48 AM	0.001	0.001	
9	CCV2	Unknown		04/11/2024	11:53:30 AM	0.491	0.360	
10	CCB2	Unknown		04/11/2024	11:54:12 AM	-0.001	-0.001	
11								

HS24040784 E2400358 Dioxin Level IV Final Report

ALS WO# HS24040784

April 24, 2024 Service Request No:E2400358

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040784

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 11, 2024
For your reference, these analyses have been assigned our service request number **E2400358.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

Client:	ALS Environmental - US	Service Request No.:	E2400358
Project:	HS24040784	Date Received:	04/11/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 04/11/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400188: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400358
Project: HS24040784

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400358-001	LH18/24-SP140_041024	4/10/2024	1300

Service Request Summary

Folder #: **E2400358**
Client Name: ALS Environmental - US
Project Name: HS24040784
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/11/24
Internal Due Date: 4/23/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4E
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400358-001	LH18/24-SP140_041024	Water	04/10/24 1300	**IV***

Service Request Summary

Folder #: **E2400358**
Client Name: ALS Environmental - US
Project Name: HS24040784
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/11/24
Internal Due Date: 4/23/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4E
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400358
ALS Environmental - US
HS24040784

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25321**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	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:	HS24040784
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040784-01**	**LH18/24-SP140_041024**	**Water**	**10 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 4/11/24 1040

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

E2400358 5
ALS Environmental - US
HS24040784

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Sample Receipt Checklist

Work Order ID: HS24040784 **Date/Time received:** 11 Apr 2024 09:30

Client name: Bhate Environmental Associates, Inc. **Received by:** Aytu Tuncer

Completed/By: 11 Apr 2024 10:40 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **Carrier name:** FedEx

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

Temperature(s)/Thermometer(s): 3.0uc/3.1c ir31

Cooler Information: 1 Cooler(s), 43655

Date/Time sample(s) sent to storage: 04/11/2024 1041

Water - VOA vials have zero headspace?	☐ Yes	☐ No	☑ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400354-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400358-001	LH18/24-SP140_041024	.01	6850/ClO4 DOD			Water	10mL	
3	E2400363-001	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2400378-001	LTMSW16-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
5	E2400378-002	LTMSW15-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
6	E2400378-003	FD01-SW-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
7	E2400378-004	LTMSW14-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
8	E2400378-005	LTMSW13-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
9	E2400378-006	LTMSW12-040924	.03	6850/ClO4 DOD			Surface Water	10mL	
10	E2400381-001	2404091004A PL-1-486	.01	6850/ClO4 DOD			Water	10mL	
11	E2400391-001	LH18/24-SP650_041724_BIX	.01	6850/ClO4 DOD			Water	10mL	
12	E2400391-002	LH18/24-SP650_041724_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	EQ2400188-01	MB		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400188-02	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400188-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400188-04	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400188-05	LTMSW12-040924 MS	.03	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400188-06	LTMSW12-040924 DMS	.03	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400188-02 10.00µL EQ2400188-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400391-001 100.00µL E2400391-002 100.00µL EQ2400188-01 100.00µL EQ2400188-02 100.00µL EQ2400188-03 100.00µL EQ2400188-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400188-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer-Lok Syringes (228117)

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

Preparation Steps

Step: Preparation
Started: 4/19/24 09:00
Finished: 4/19/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP140_041024	**Units:**	µg/L
Lab Code:	E2400358-001	**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	**10400**		100	50.0	25.0	1000	4/19/24	4/19/24 15:32	437153	838801	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400188-01	**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	4/19/24	4/19/24 11:44	437153	838403	

Accuracy & Precision

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10450 Stancliff Rd., Suite 210, Houston TX 77099
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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	437153

	Lab Control Sample EQ2400188-02			Duplicate Lab Control Sample EQ2400188-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.111	0.100	111	0.118	0.100	118	84 - 119	6	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:**	E2400358
Project:	HS24040784	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-02	**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	**0.111**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:50	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-03	**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	4/19/24	4/19/24 11:56	437153	838403	

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

835280

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240328-001	IB	Perchlorate6850c.lcm	1x		3/28/2024 18:50
2	20240328-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	3/28/2024 18:56
3	20240328-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	3/28/2024 19:01
4	20240328-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	3/28/2024 19:07
5	20240328-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	3/28/2024 19:12
6	20240328-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	3/28/2024 19:18
7	20240328-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	3/28/2024 19:23
8	20240328-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	3/28/2024 19:29
9	20240328-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	3/28/2024 19:34
10	20240328-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	3/28/2024 19:40
11	20240328-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	3/28/2024 19:46
12	20240328-012	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	3/28/2024 19:51
13	20240328-013	IB	Perchlorate6850c.lcm	1x		3/28/2024 19:57
14	20240328-014	LODV	Perchlorate6850c.lcm	1x		3/28/2024 20:08
15	20240328-015	EQ2400151-04ICS	Perchlorate6850c.lcm	1x		3/28/2024 20:13
16	20240328-016	CCV	Perchlorate6850c.lcm	1x		3/28/2024 20:19
17	20240328-017	IB	Perchlorate6850c.lcm	1x		3/28/2024 20:24
18	20240328-018	EQ2400151-01MB	Perchlorate6850c.lcm	1x		3/28/2024 20:30
19	20240328-019	EQ2400151-02LCS	Perchlorate6850c.lcm	1x		3/28/2024 20:35
20	20240328-020	EQ2400151-03DLCS	Perchlorate6850c.lcm	1x		3/28/2024 20:41
21	20240328-022	E2400265-001	Perchlorate6850c.lcm	1x		3/28/2024 20:52
22	20240328-023	E2400268-001	Perchlorate6850c.lcm	1x		3/28/2024 20:58
23	20240328-024	E2400268-002	Perchlorate6850c.lcm	1x		3/28/2024 21:03
24	20240328-025	E2400271-001	Perchlorate6850c.lcm	1x		3/28/2024 21:09
25	20240328-026	E2400271-002	Perchlorate6850c.lcm	1x		3/28/2024 21:14
26	20240328-027	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:20
27	20240328-028	CCV	Perchlorate6850c.lcm	1x		3/28/2024 21:25
28	20240328-029	IB	Perchlorate6850c.lcm	1x		3/28/2024 21:31
29	20240328-030	E2400296-002	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:36
30	20240328-031	E2400296-003	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:42
31	20240328-032	CCV	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:47
32	20240328-033	IB	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:53

Initial Calibration - Detailed Report

Calibration ID: EC2400005 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400005-01	Perchlorate ICAL 1	20240328-002	03/28/2024 18:56
02	EC2400005-02	Perchlorate ICAL 2	20240328-003	03/28/2024 19:01
03	EC2400005-03	Perchlorate ICAL 3	20240328-004	03/28/2024 19:07
04	EC2400005-04	Perchlorate ICAL 4	20240328-005	03/28/2024 19:12
05	EC2400005-05	Perchlorate ICAL 5	20240328-006	03/28/2024 19:18
06	EC2400005-06	Perchlorate ICAL 6	20240328-007	03/28/2024 19:23
07	EC2400005-07	Perchlorate ICAL 7	20240328-008	03/28/2024 19:29
08	EC2400005-08	Perchlorate ICAL 8	20240328-009	03/28/2024 19:34
09	EC2400005-09	Perchlorate ICAL 9	20240328-010	03/28/2024 19:40
10	EC2400005-10	Perchlorate ICAL 10	20240328-011	03/28/2024 19:46

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.135** **Average RF = 0.1549**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1349	02	0.5000	0.1452	03	0.7000	0.1473	04	1.0000	0.1539
05	2.0000	0.1596	06	5.0000	0.1596	07	10.0000	0.1635	08	20.0000	0.1613
09	30.0000	0.1629	10	50.0000	0.161						

Analyte

Perchlorate RSE = 6.14

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0871	-12.9	02	0.5000	0.469	-6.3	03	0.7000	0.666	-4.9
04	1.0000	0.994	-0.6	05	2.0000	2.06	3.0	06	5.0000	5.15	3.0
07	10.0000	10.6	5.6	08	20.0000	20.8	4.1	09	30.0000	31.5	5.1
10	50.0000	52.0	3.9								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400005	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240328-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400005-11	T	Average RF	10	10.397	ng/mL	4.0	<= 15

Insight Report

Printed at 3/29/2024 12:40:08 PM

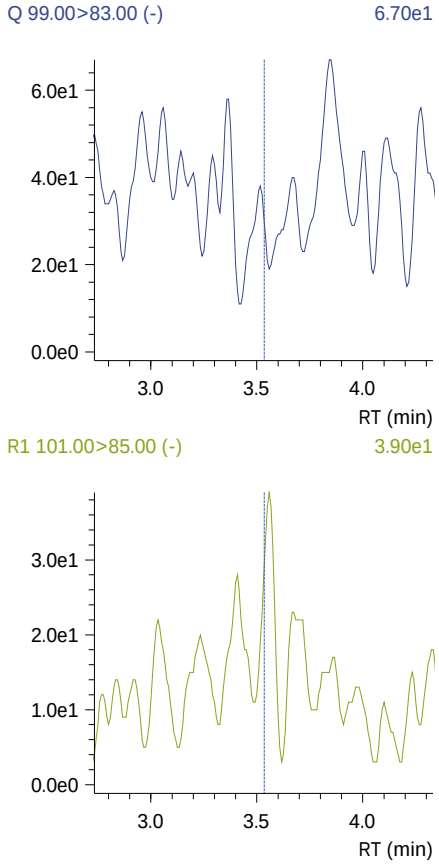
IB

Sample ID: IB
Date Acquired: 3/28/2024 7:57:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	174347	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.516	174347	174347	1.0000	ng/mL	----	----	

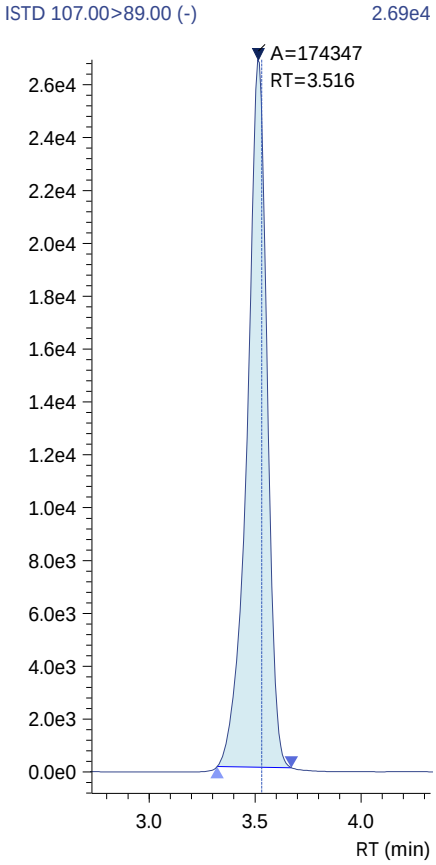
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240328\20240328.damlp

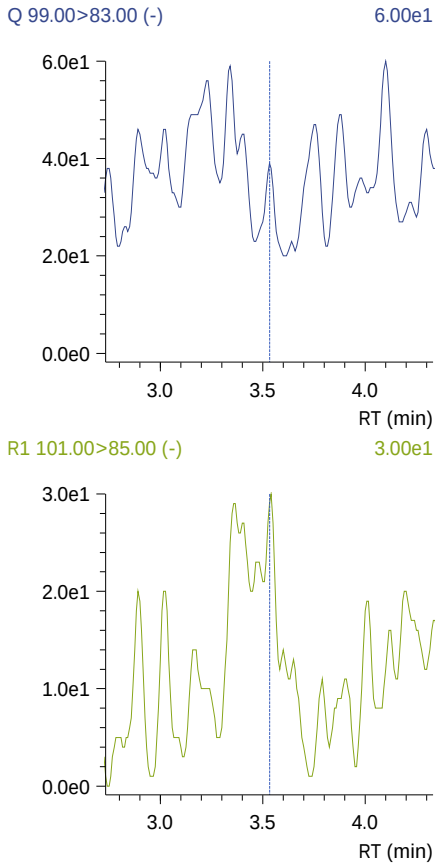
IB

Sample ID: IB
Date Acquired: 3/28/2024 6:50:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	242889	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.523	242889	242889	1.0000	ng/mL	----	----	

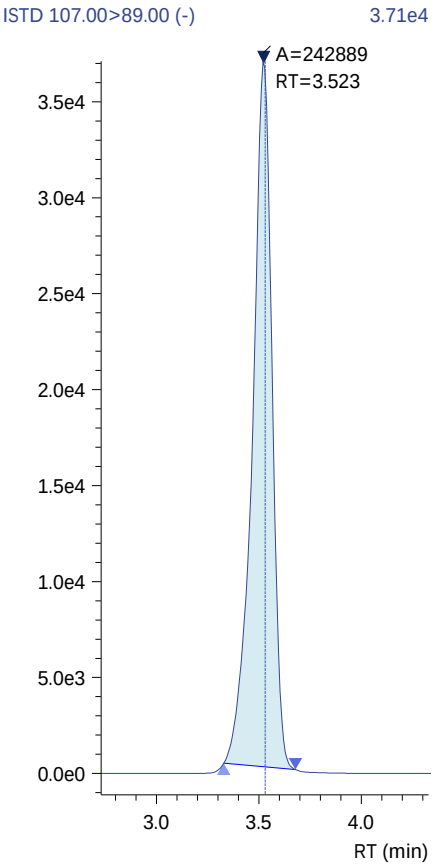
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

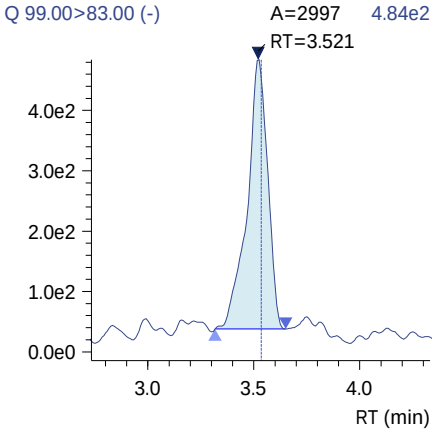
Perchlorate ICAL 1

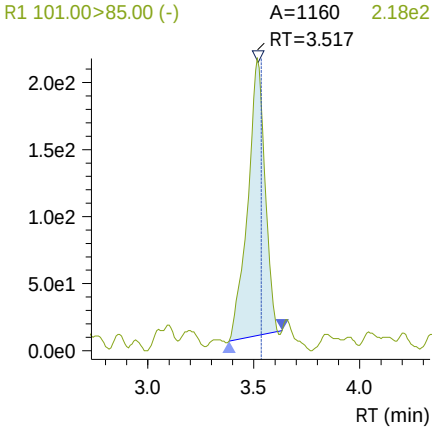
Sample ID: Perchlorate ICAL 1
Date Acquired: 3/28/2024 6:56:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	2997	222150	0.0871	ng/mL	101.00 >85.00	38.69	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.521	222150	222150	1.0000	ng/mL	----	----	

Perchlorate

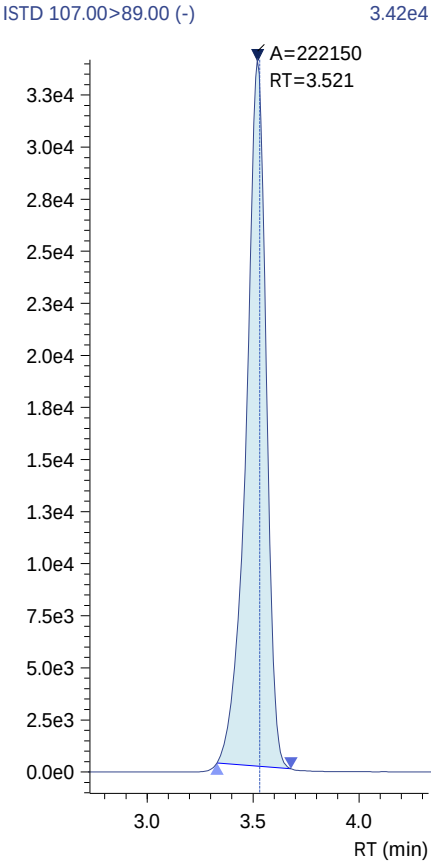
Conc 0.0871
R#1 38.69 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

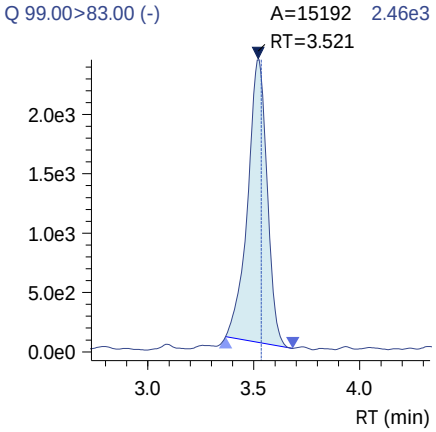
Perchlorate ICAL 2

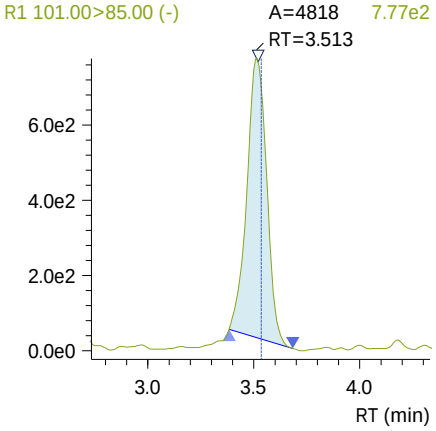
Sample ID: Perchlorate ICAL 2
Date Acquired: 3/28/2024 7:01:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	15192	209260	0.4686	ng/mL	101.00 >85.00	31.71	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.519	209260	209260	1.0000	ng/mL	----	----	

Perchlorate

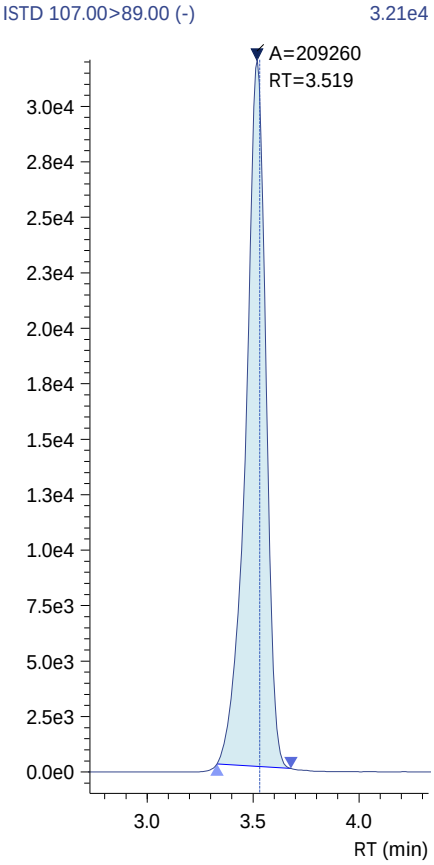
Conc 0.4686
R#1 31.71 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

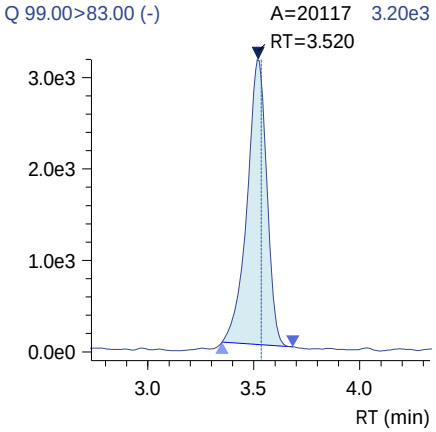
Perchlorate ICAL 3

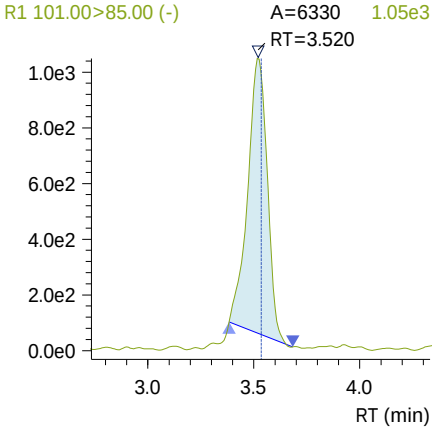
Sample ID: Perchlorate ICAL 3
Date Acquired: 3/28/2024 7:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	20117	195056	0.6657	ng/mL	101.00 >85.00	31.46	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	195056	195056	1.0000	ng/mL	----	----	

Perchlorate

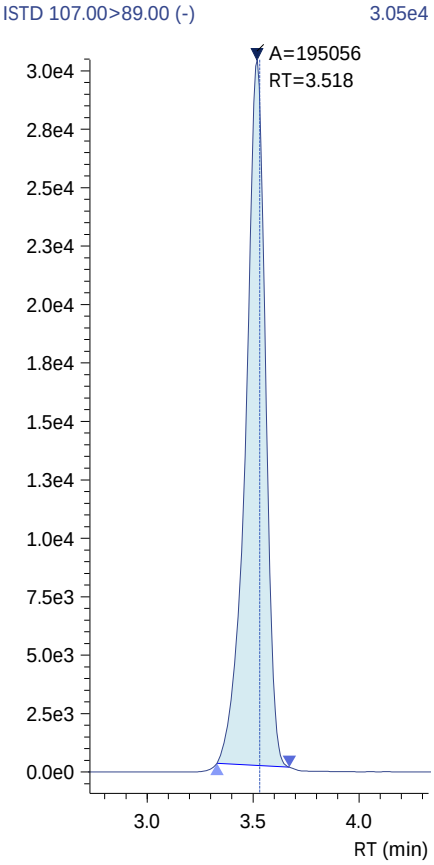
Conc 0.6657
R#1 31.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

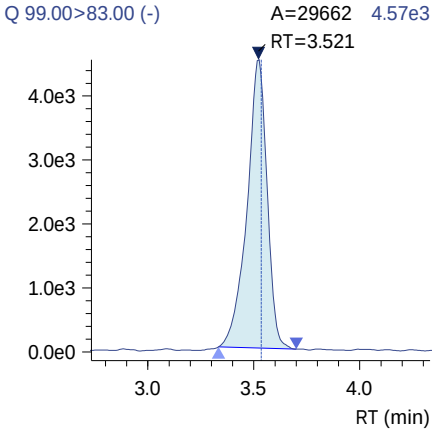
Perchlorate ICAL 4

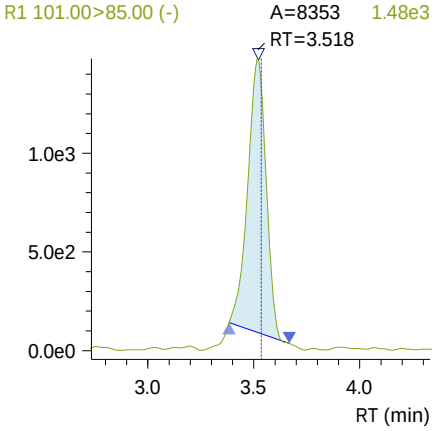
Sample ID: Perchlorate ICAL 4
Date Acquired: 3/28/2024 7:12:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	29662	192682	0.9936	ng/mL	101.00 >85.00	28.16	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	192682	192682	1.0000	ng/mL	----	----	

Perchlorate

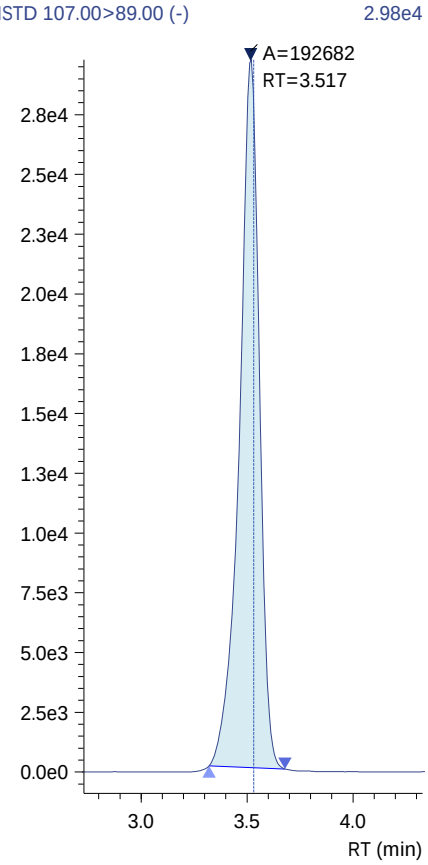
Conc 0.9936
R#1 28.16 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

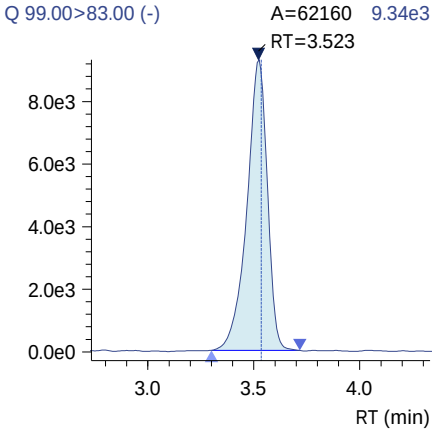
Perchlorate ICAL 5

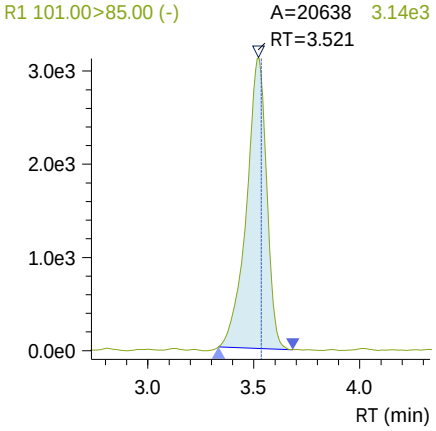
Sample ID: Perchlorate ICAL 5
Date Acquired: 3/28/2024 7:18:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	62160	194691	2.0607	ng/mL	101.00 >85.00	33.20	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	194691	194691	1.0000	ng/mL	----	----	

Perchlorate

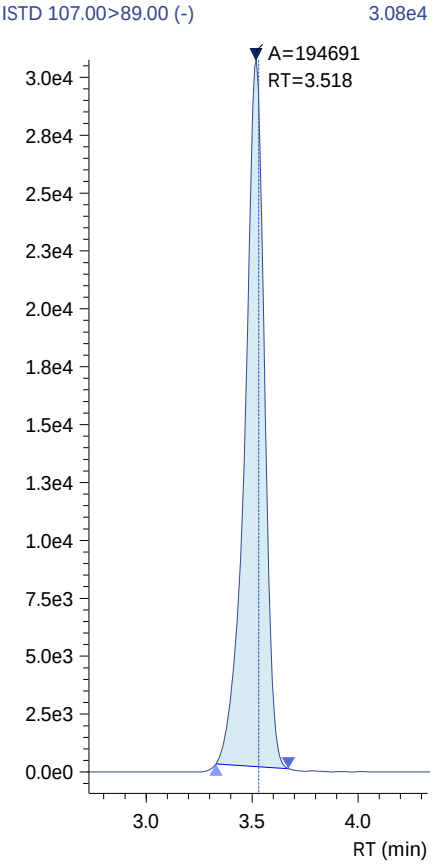
Conc 2.0607
R#1 33.20 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 6

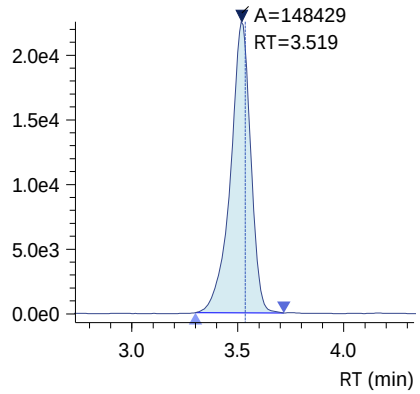
Sample ID: Perchlorate ICAL 6
Date Acquired: 3/28/2024 7:23:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	148429	185979	5.1511	ng/mL	101.00 >85.00	33.89	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	185979	185979	1.0000	ng/mL	----	----	

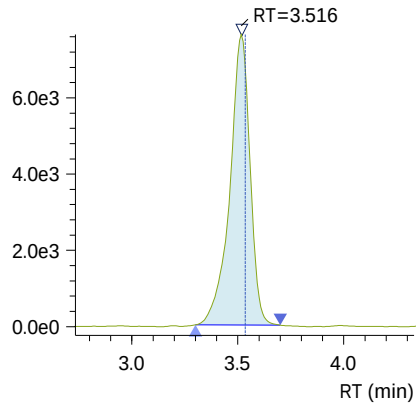
Perchlorate

Conc 5.1511
R#1 33.89 (34.10)

Q 99.00>83.00 (-) 2.26e4



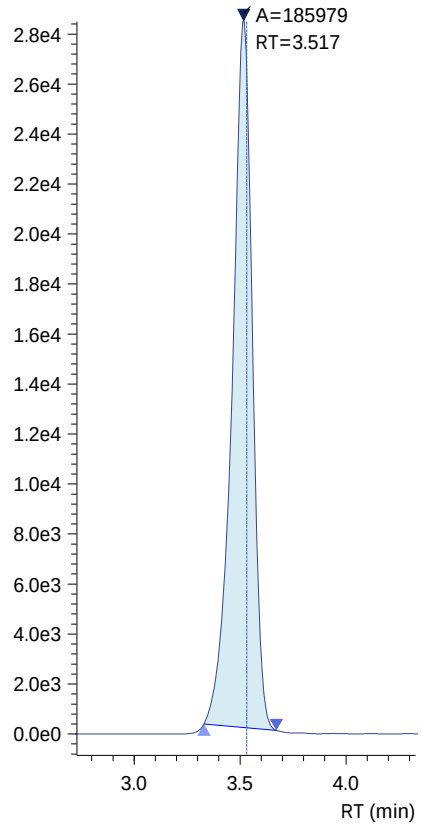
R1 101.00>85.00 (-) A=50306 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.85e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

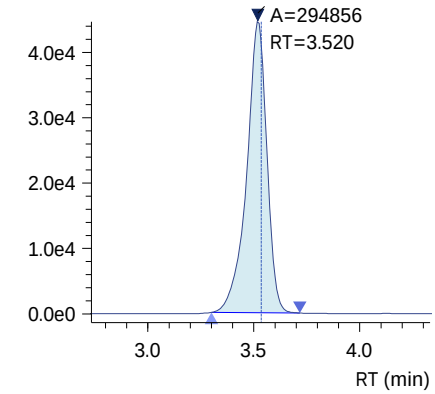
Perchlorate ICAL 7

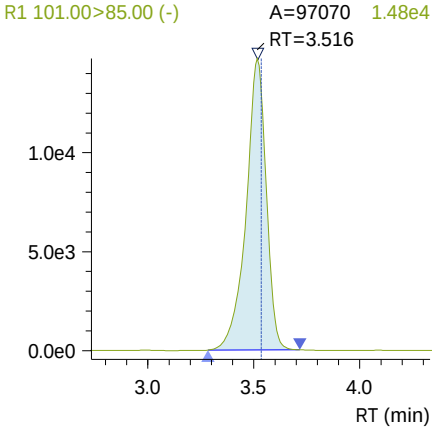
Sample ID: Perchlorate ICAL 7
Date Acquired: 3/28/2024 7:29:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	294856	180287	10.5 558	ng/mL	101.00 >85.00	32.92	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	180287	180287	1.0000	ng/mL	----	----	

Perchlorate

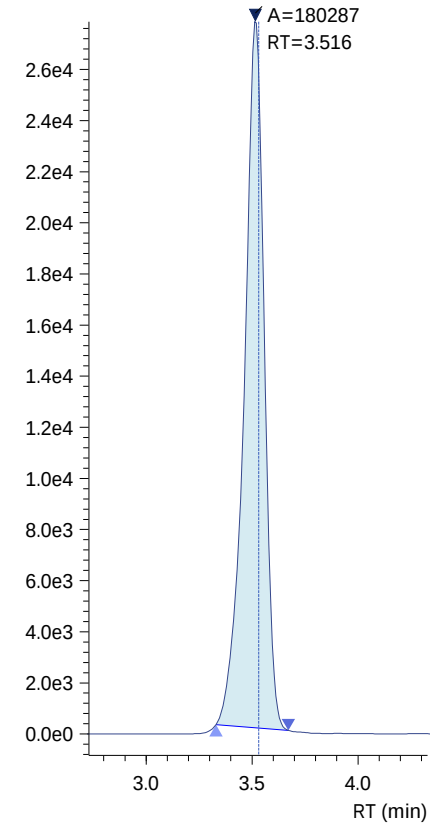
Conc 10.5558
R#1 32.92 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 8

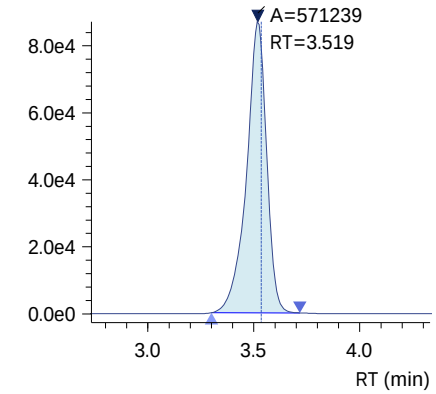
Sample ID: Perchlorate ICAL 8
Date Acquired: 3/28/2024 7:34:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	571239	177068	20.8	ng/mL	101.00	33.33	22.32
					220		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	177068	177068	1.0000	ng/mL	----	----	

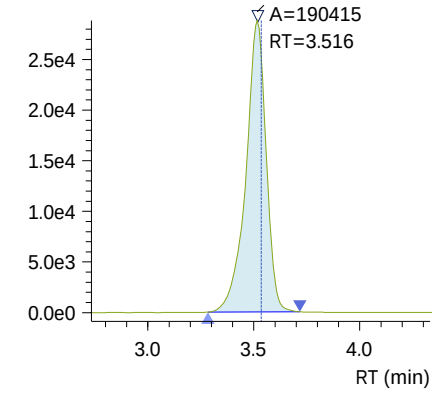
Perchlorate

Conc 20.8220
R#1 33.33 (34.10)

Q 99.00>83.00 (-) 8.72e4



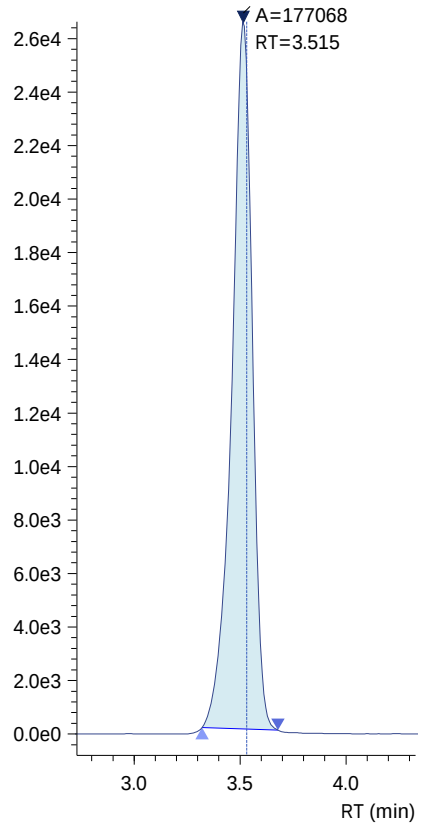
R1 101.00>85.00 (-) 2.89e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 9

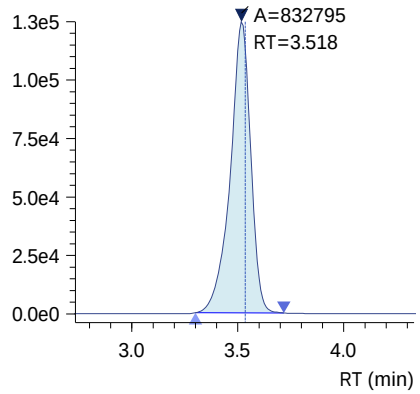
Sample ID: Perchlorate ICAL 9
Date Acquired: 3/28/2024 7:40:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.518	832795	170448	31.5	ng/mL	101.00	33.17	22.32
					348		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	170448	170448	1.0000	ng/mL	----	----	

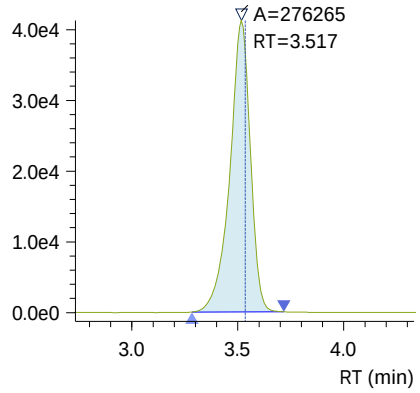
Perchlorate

Conc 31.5348
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 1.25e5



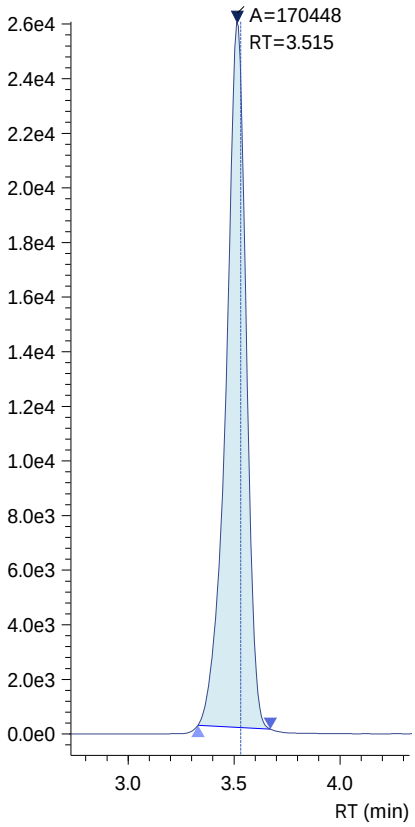
R1 101.00>85.00 (-) 4.13e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.61e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 10

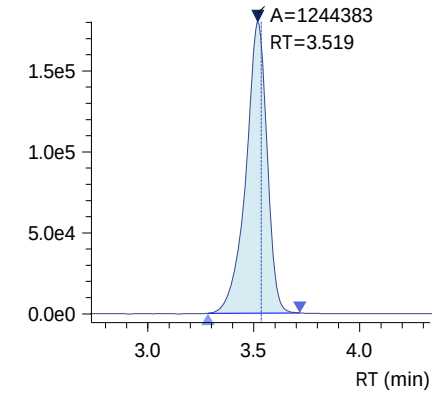
Sample ID: Perchlorate ICAL 10
Date Acquired: 3/28/2024 7:46:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	12443	154566	51.9	ng/mL	101.00	33.24	22.32
			83		618		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	154566	154566	1.0000	ng/mL	----	----	

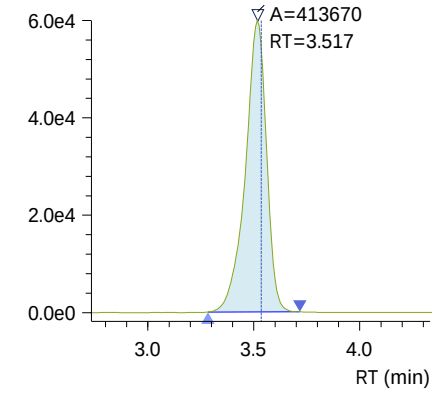
Perchlorate

Conc 51.9618
R#1 33.24 (34.10)

Q 99.00>83.00 (-) 1.80e5



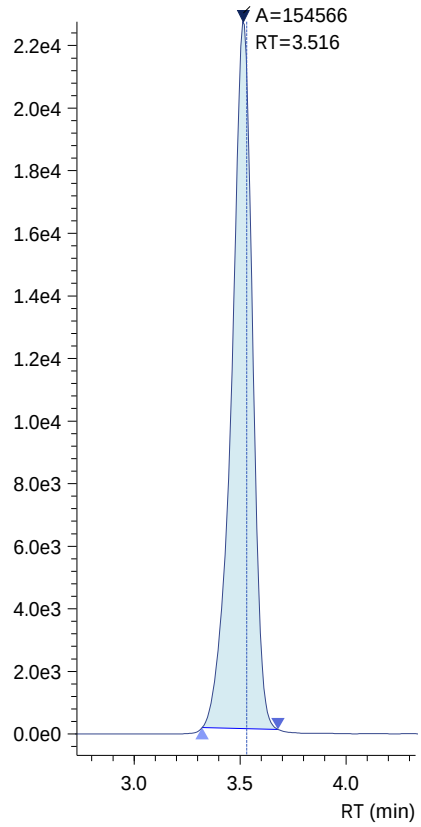
R1 101.00>85.00 (-) 6.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.28e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

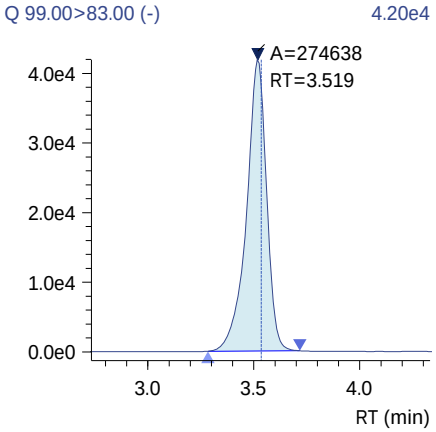
PerchlorateICV

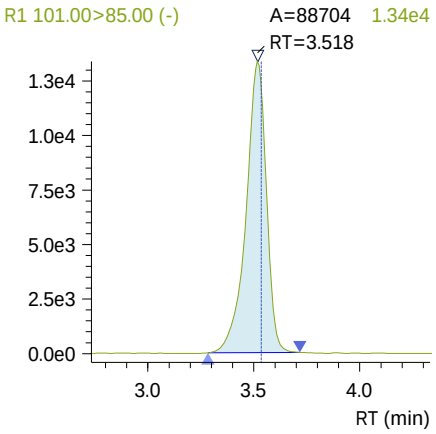
Sample ID: PerchlorateICV
Date Acquired: 3/28/2024 7:51:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	274638	170488	10.3971	ng/mL	101.00 >85.00	32.30	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.515	170488	170488	1.0000	ng/mL	----	----	

Perchlorate

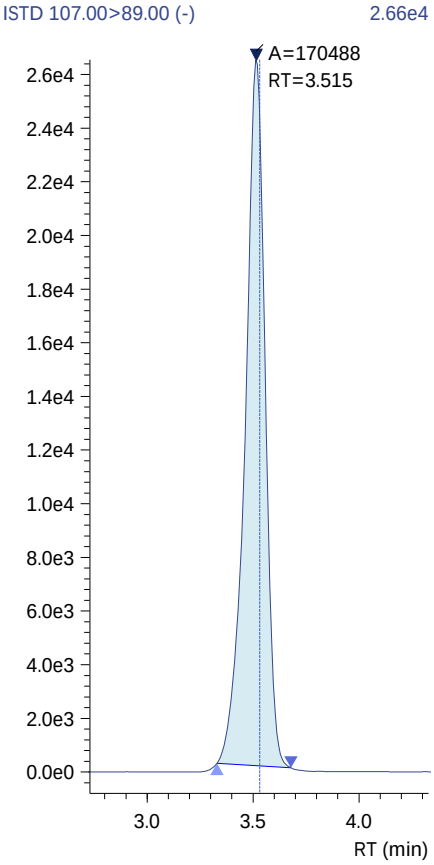
Conc 10.3971
R#1 32.30 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240419-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240419-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240419-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240419-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240419-005	CCV	Perchlorate6850c.lcm	1x		4/19/2024 10:52
6	20240419-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240419-007	E2400391-001	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:18
8	20240419-008	E2400391-002	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:24
9	20240419-009	EQ2400188-01MB	Perchlorate6850c.lcm	1x		4/19/2024 11:44
10	20240419-010	EQ2400188-02LCS	Perchlorate6850c.lcm	1x		4/19/2024 11:50
11	20240419-011	EQ2400188-03DLCS	Perchlorate6850c.lcm	1x		4/19/2024 11:56
12	20240419-012	EQ2400188-04ICS	Perchlorate6850c.lcm	1x		4/19/2024 12:01
13	20240419-013	E2400391-001	Perchlorate6850c.lcm	1x		4/19/2024 12:07
14	20240419-014	E2400391-002	Perchlorate6850c.lcm	1x		4/19/2024 12:12
15	20240419-015	EQ2400188-05MS	Perchlorate6850c.lcm	1x		4/19/2024 12:37
16	20240419-016	EQ2400188-06MSD	Perchlorate6850c.lcm	1x		4/19/2024 12:42
17	20240419-017	CCV	Perchlorate6850c.lcm	1x		4/19/2024 12:48
18	20240419-018	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:53
19	20240419-019	E2400354-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 12:59
20	20240419-020	E2400358-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:04
21	20240419-021	E2400363-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:10
22	20240419-022	E2400378-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:15
23	20240419-023	E2400378-002	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:21
24	20240419-024	E2400378-003	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:26
25	20240419-025	E2400378-004	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:32
26	20240419-026	E2400378-005	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:37
27	20240419-027	E2400378-006	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:43
28	20240419-028	E2400381-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:48
29	20240419-029	CCV	Perchlorate6850c.lcm			4/19/2024 14:31
30	20240419-030	IB	Perchlorate6850c.lcm			4/19/2024 14:37
31	20240419-031	E2400354-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 14:42
32	20240419-032	E2400363-001	Perchlorate6850c.lcm	1x		4/19/2024 14:48
33	20240419-033	E2400378-001	Perchlorate6850c.lcm	1x		4/19/2024 14:54
34	20240419-034	E2400378-002	Perchlorate6850c.lcm	1x		4/19/2024 14:59
35	20240419-035	E2400378-003	Perchlorate6850c.lcm	1x		4/19/2024 15:05
36	20240419-036	E2400378-004	Perchlorate6850c.lcm	1x		4/19/2024 15:10
37	20240419-037	E2400378-005	Perchlorate6850c.lcm	1x		4/19/2024 15:16
38	20240419-038	E2400378-006	Perchlorate6850c.lcm	1x		4/19/2024 15:21
39	20240419-039	E2400381-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 15:27
40	20240419-040	E2400358-001x1000	Perchlorate6850c.lcm	1000x		4/19/2024 15:32

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240419-041	CCV	Perchlorate6850c.lcm			4/19/2024 15:38
42	20240419-042	IB	Perchlorate6850c.lcm			4/19/2024 15:43
43	20240419-043	E2400354-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 15:49
44	20240419-044	E2400354-001X10	Perchlorate6850c.lcm			4/19/2024 15:54
45	20240419-045	E2400381-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 16:00
46	20240419-046	E2400381-001x10	Perchlorate6850c.lcm			4/19/2024 16:05
47	20240419-047	LCSTW1	Perchlorate6850c.lcm			4/19/2024 16:11
48	20240419-048	LCSTW2	Perchlorate6850c.lcm			4/19/2024 16:17
49	20240419-049	LCSTW3	Perchlorate6850c.lcm			4/19/2024 16:22
50	20240419-050	LCSTW4	Perchlorate6850c.lcm			4/19/2024 16:28
51	20240419-051	LCSNV1	Perchlorate6850c.lcm			4/19/2024 16:33
52	20240419-052	LCSNV2	Perchlorate6850c.lcm			4/19/2024 16:39
53	20240419-053	CCV	Perchlorate6850c.lcm			4/19/2024 16:44
54	20240419-054	IB	Perchlorate6850c.lcm			4/19/2024 16:50
55	20240419-055	LCSNV3	Perchlorate6850c.lcm			4/19/2024 16:55
56	20240419-056	LCSNV4	Perchlorate6850c.lcm			4/19/2024 17:01
57	20240419-057	CCV	Perchlorate6850c.lcm			4/19/2024 17:07
58	20240419-058	IB	Perchlorate6850c.lcm			4/19/2024 17:12

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24 10:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Lab Code:**	EQ2400189-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-01	122,793	3.55
Method Blank	EQ2400188-01	134,100	3.54
Lab Control Sample	EQ2400188-02	131,541	3.54
Duplicate Lab Control Sample	EQ2400188-03	132,507	3.54

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:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24 12:48

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Lab Code:**	EQ2400189-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-02	126,867	3.54

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:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24 10:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Lab Code:**	EQ2400196-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-01	122,793	3.55

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:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24 12:48

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Lab Code:**	EQ2400196-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-02	126,867	3.54

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:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24 14:31

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-029	**Lab Code:**	EQ2400196-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-03	122,485	3.54
LH18/24-SP140_041024	E2400358-001	128,201	3.54

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:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24 15:38

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-041	**Lab Code:**	EQ2400196-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-04	124,265	3.53

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:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24 16:44

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-053	**Lab Code:**	EQ2400196-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-05	117,181	3.54

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:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	3/28/24
File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Calibration ID:**	EC2400005
		Analysis Lot:	838403
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.69	0.1549	0.1501	-3.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	3/28/24
File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Calibration ID:**	EC2400005
		Analysis Lot:	838403
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1566	1.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040784

Service Request: E2400358
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-005

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.69	0.1549	0.1501	-3.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040784

Service Request: E2400358
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-017

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1566	1.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040784

Service Request: E2400358
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-029

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1620	4.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040784

Service Request: E2400358
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-041

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1627	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400358
Project:	HS24040784	**Date Analyzed:**	4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	3/28/24
File ID:	I:\LCMS01\DATA\20240419\20240419-053	**Calibration ID:**	EC2400005
		Analysis Lot:	838801
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1631	5.3	NA	± 15 %	Average RF

Insight Report

Printed at 4/19/2024 2:11:15 PM

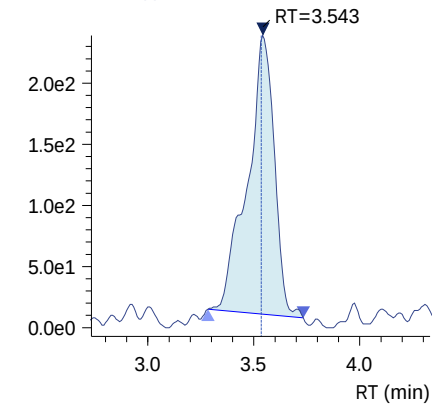
EQ2400188-04ICS

Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

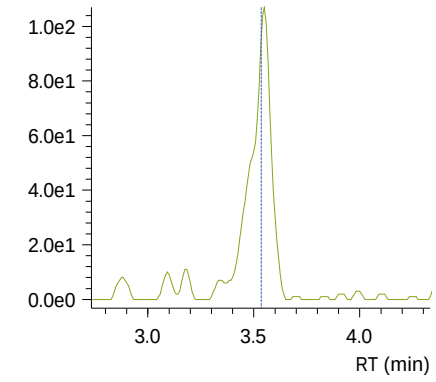
Perchlorate

Conc 0.0974
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2019 2.39e2



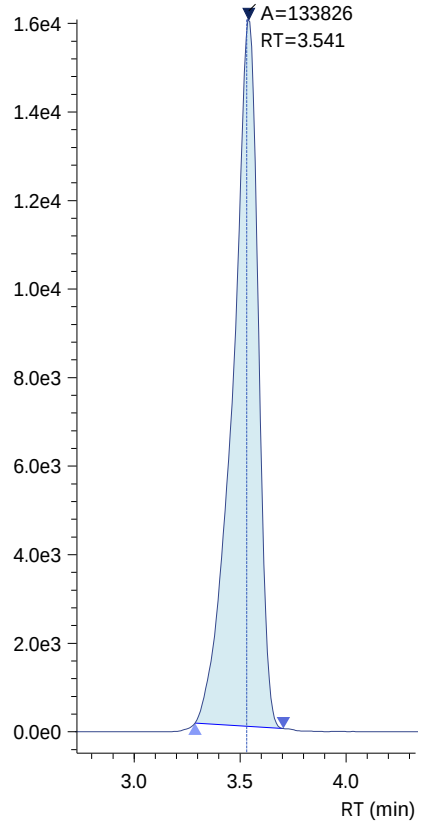
R1 101.00>85.00 (-) 1.07e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

IB

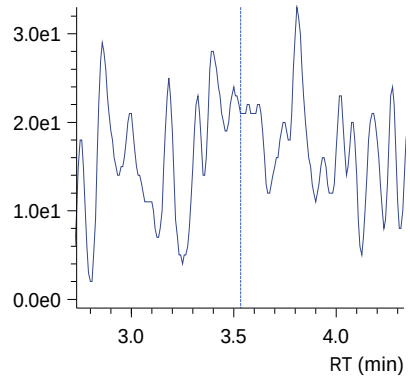
Sample ID: IB
Date Acquired: 4/19/2024 10:30:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	155603	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.554	155603	155603	1.0000	ng/mL	----	----	

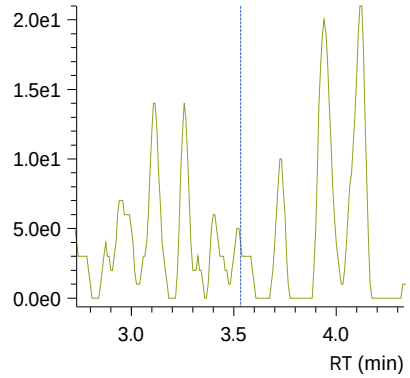
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.30e1



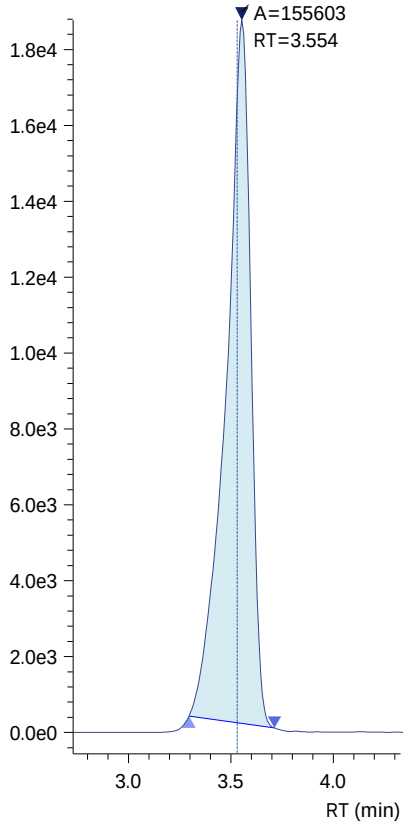
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.88e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

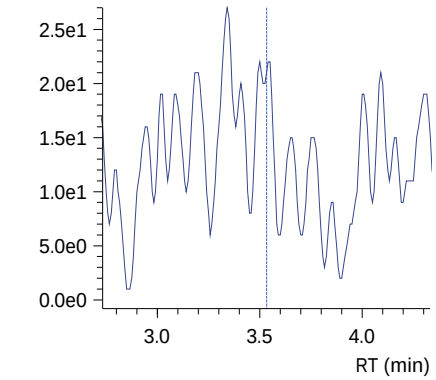
Sample ID: IB
Date Acquired: 4/19/2024 10:35:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	149340	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.558	149340	149340	1.0000	ng/mL	----	----	

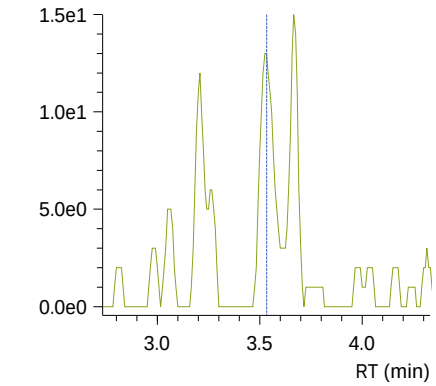
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.70e1



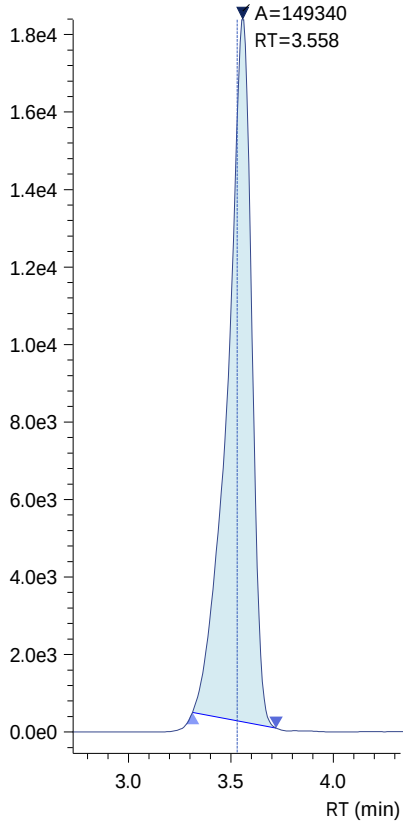
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.84e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

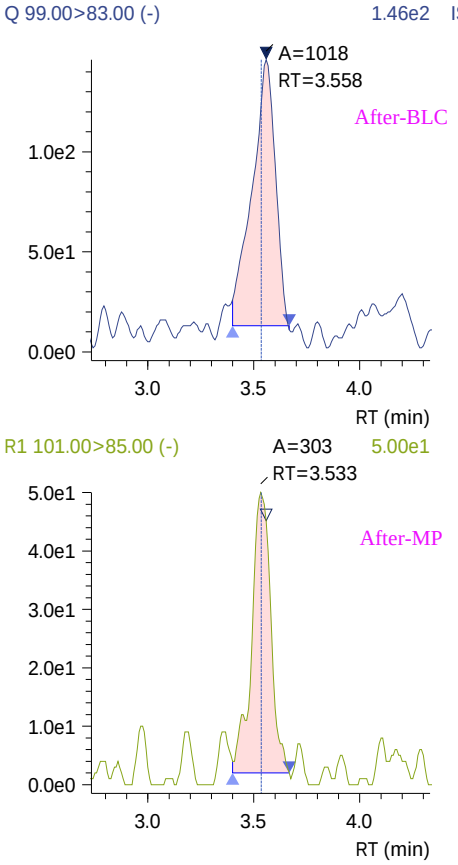
LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.558	1018	133677	0.0492	ng/mL	101.00 >85.00	29.76	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.553	133677	133677	1.0000	ng/mL	----	----	

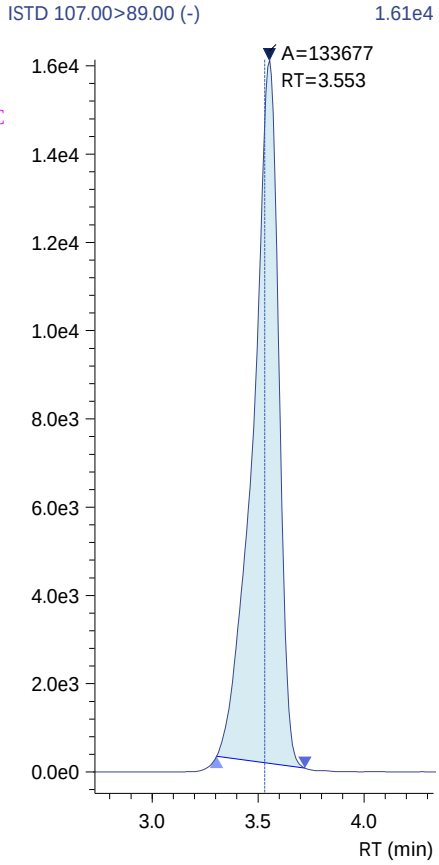
Perchlorate

Conc 0.0492
R#1 29.76 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

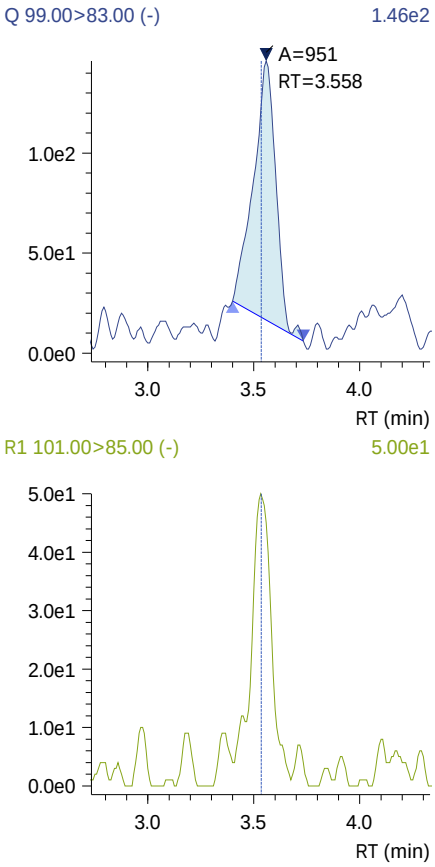
Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

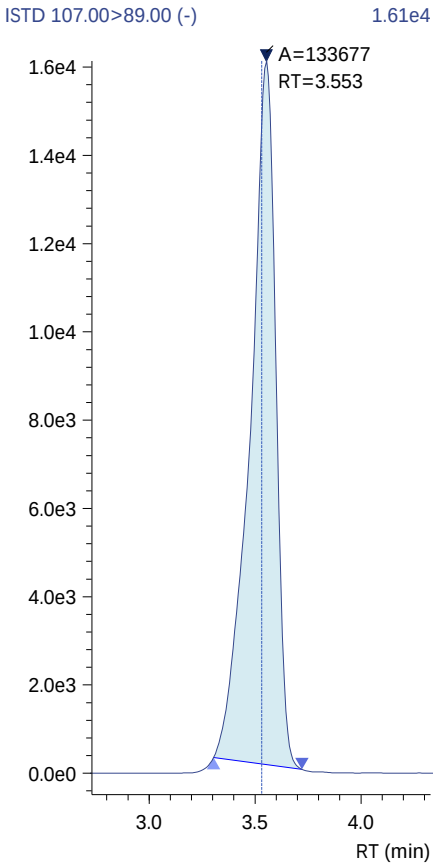
Perchlorate

Conc 0.0459
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

ICS

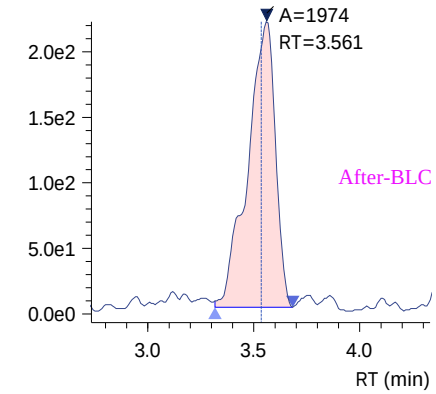
Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.561	1974	139796	0.0911	ng/mL	101.00 >85.00	31.92	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.549	139796	139796	1.0000	ng/mL	----	----	

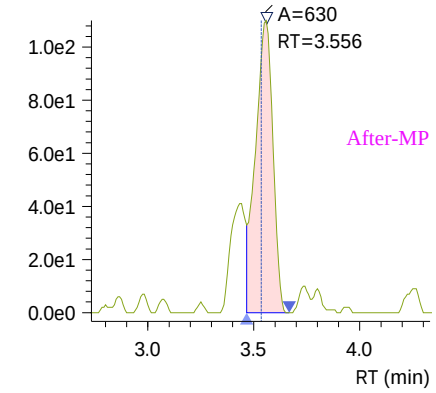
Perchlorate

Conc 0.0911
R#1 31.92 (34.10)

Q 99.00>83.00 (-) 2.23e2



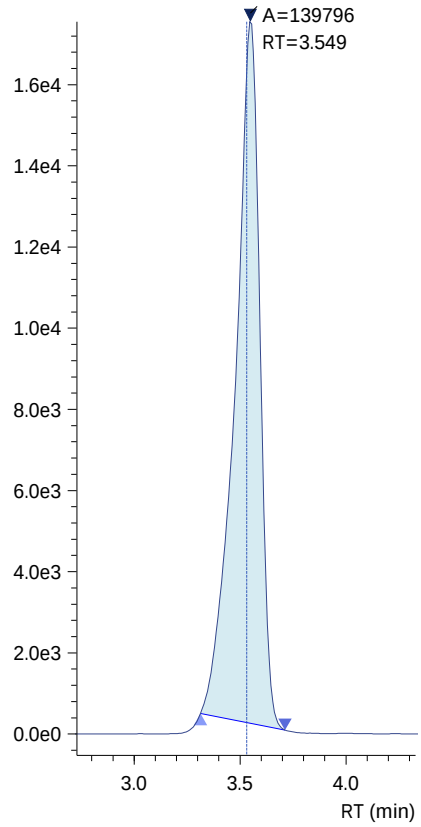
R1 101.00>85.00 (-) 1.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:11:15 PM

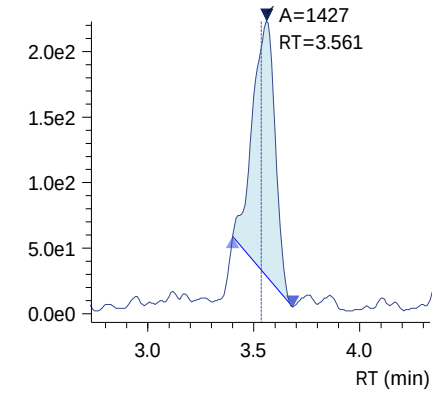
ICS

Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

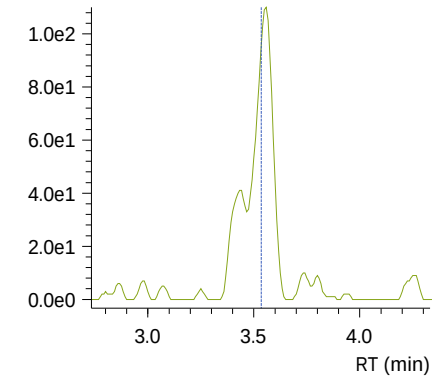
Perchlorate

Conc 0.0659
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.23e2



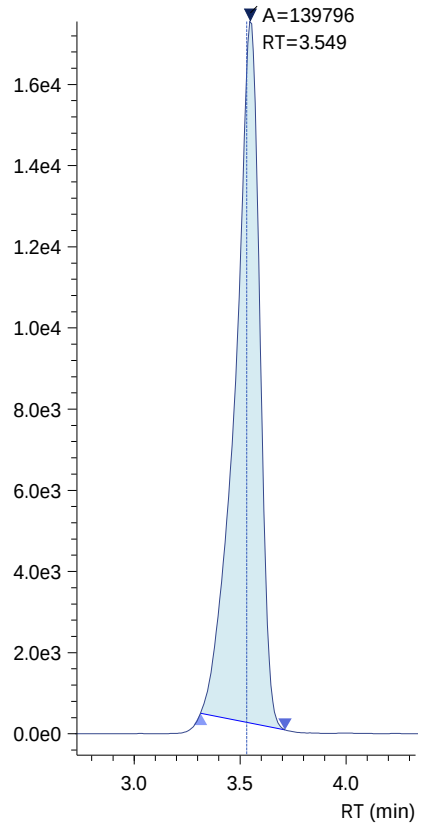
R1 101.00>85.00 (-) 1.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

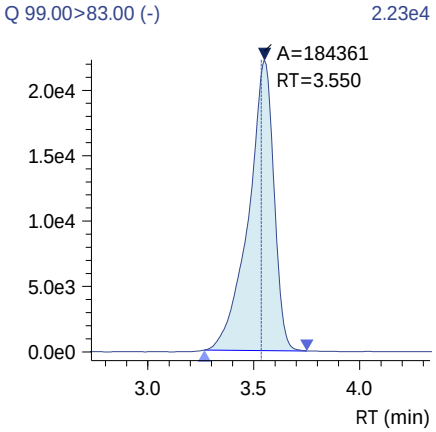
CCV

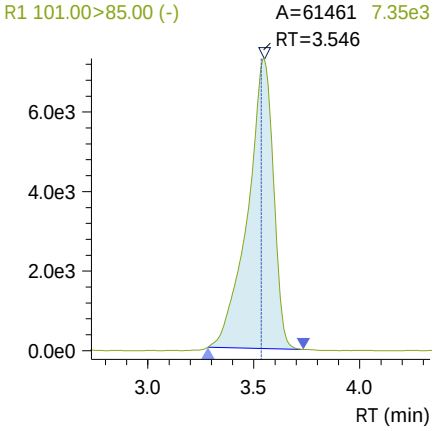
Sample ID: CCV
Date Acquired: 4/19/2024 10:52:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.550	184361	122793	9.6904	ng/mL	101.00	33.34	26.31
							>85.00		-43.47
Sodium Perchlorate-18O4_IS	Auto	3.547	122793	122793	1.0000	ng/mL	----	----	

Perchlorate

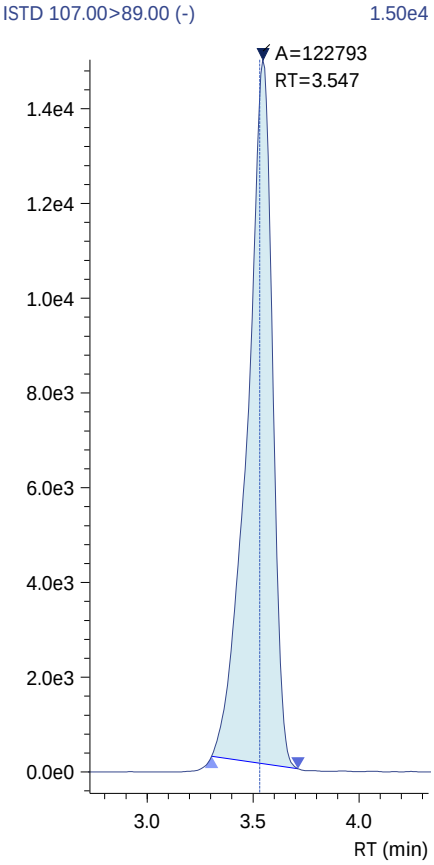
Conc 9.6904
R#1 33.34 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

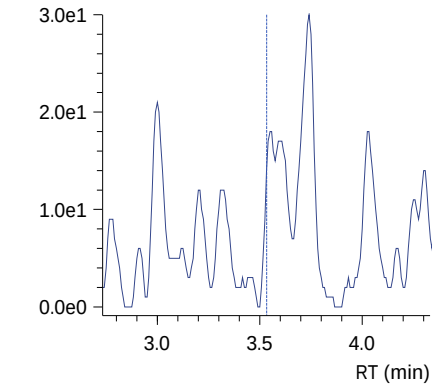
Sample ID: IB
Date Acquired: 4/19/2024 10:57:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	143773	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.546	143773	143773	1.0000	ng/mL	----	----	

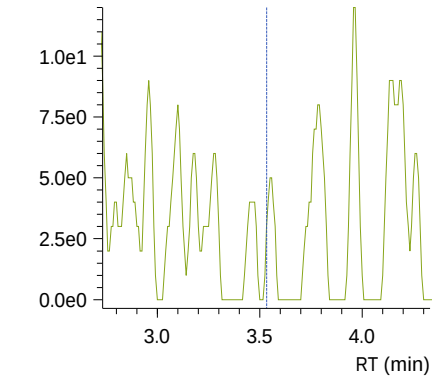
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.00e1



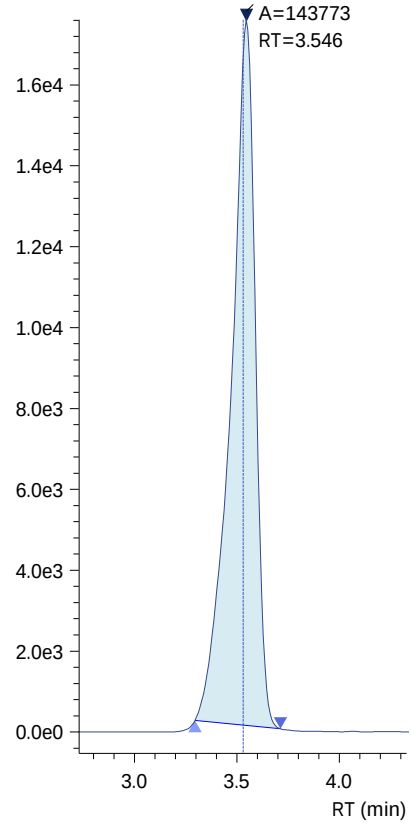
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

EQ2400188-01MB

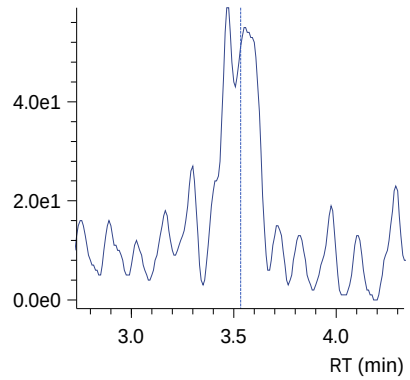
Sample ID: EQ2400188-01
Date Acquired: 4/19/2024 11:44:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-009.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	134100	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	134100	134100	1.0000	ng/mL	----	----	

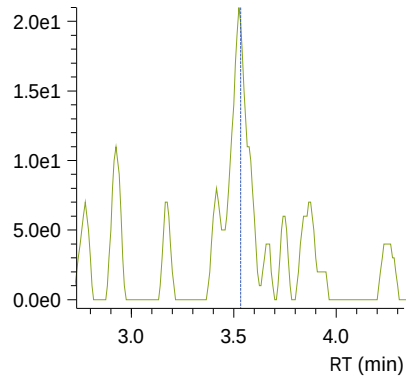
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 5.90e1



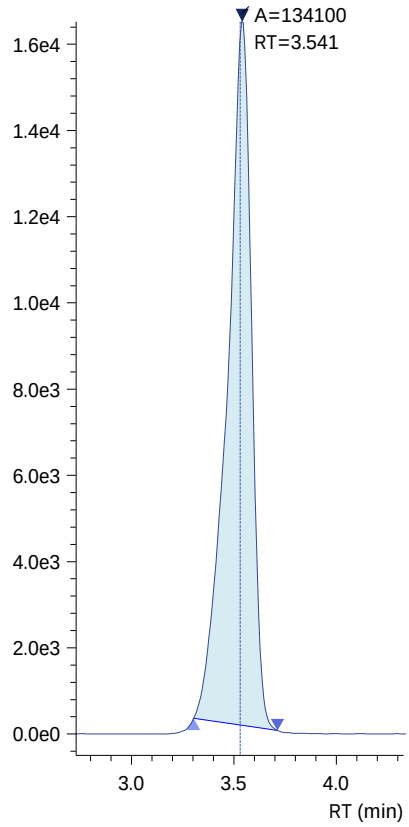
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.65e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

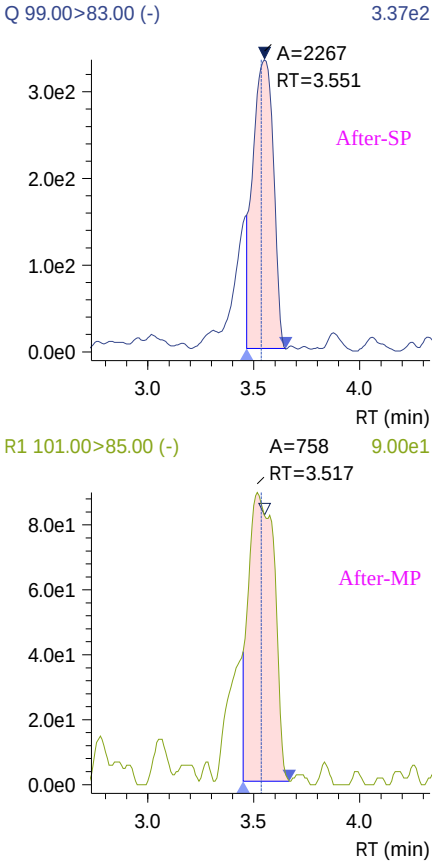
EQ2400188-02LCS

Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.551	2267	131541	0.1112	ng/mL	101.00 >85.00	33.44	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.540	131541	131541	1.0000	ng/mL	----	----	

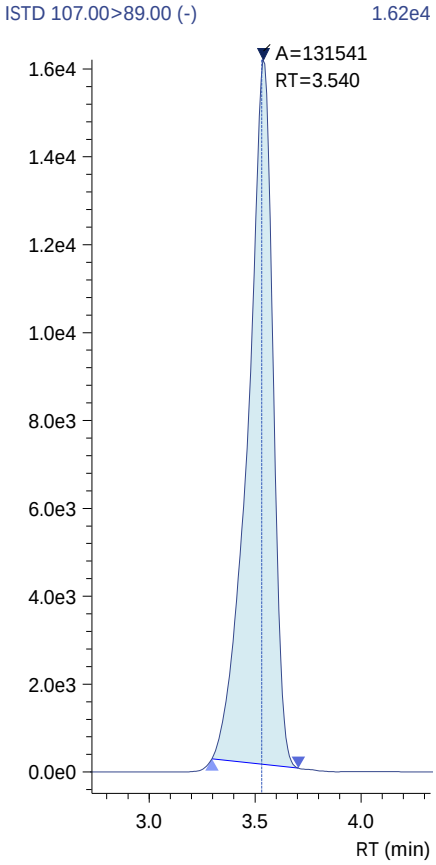
Perchlorate

Conc 0.1112
R#1 33.44 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

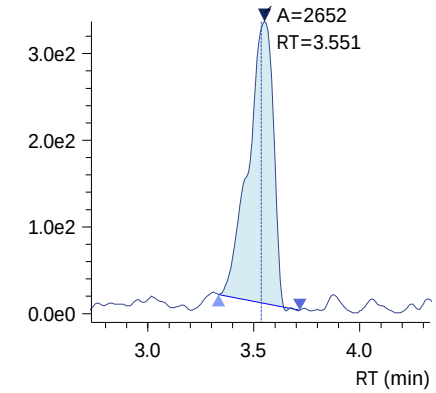
EQ2400188-02LCS

Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

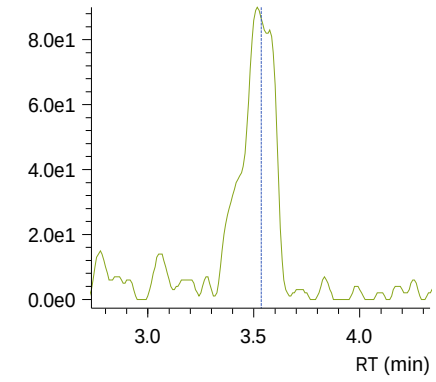
Perchlorate

Conc 0.1301
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.37e2



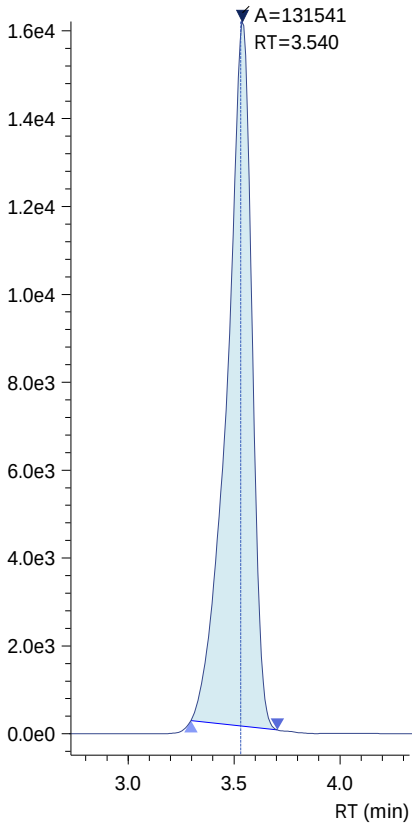
R1 101.00>85.00 (-) 9.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

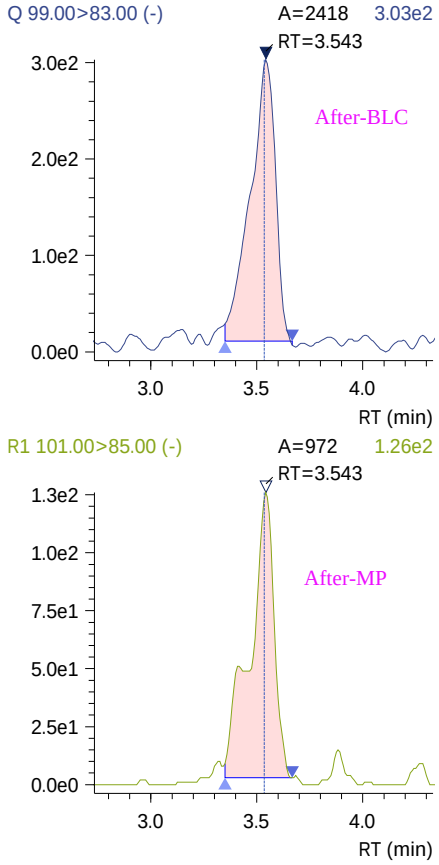
EQ2400188-03DLCS

Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.543	2418	132507	0.1178	ng/mL	101.00 >85.00	40.21	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.539	132507	132507	1.0000	ng/mL	----	----	

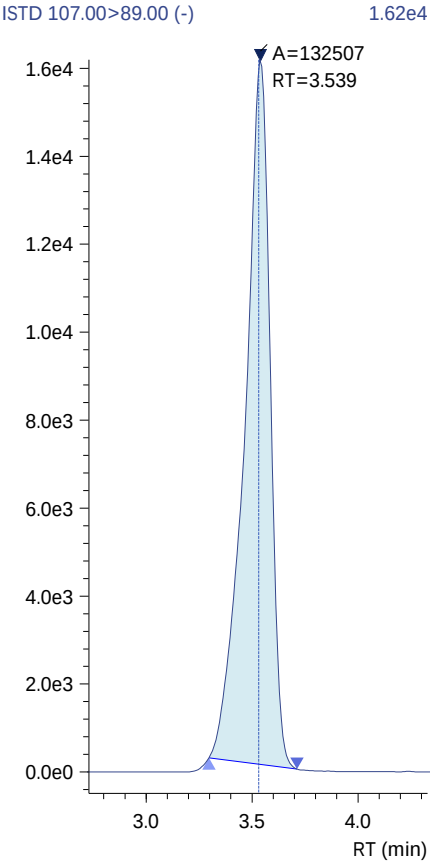
Perchlorate

Conc 0.1178
R#1 40.21 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

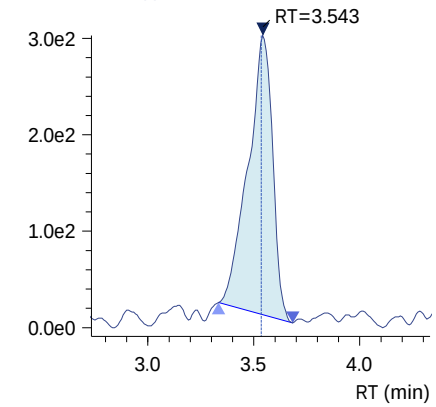
EQ2400188-03DLCS

Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

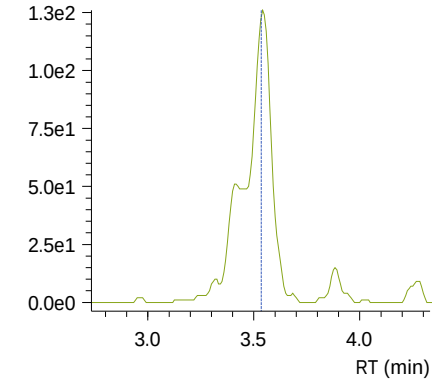
Perchlorate

Conc 0.1137
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2334 3.03e2



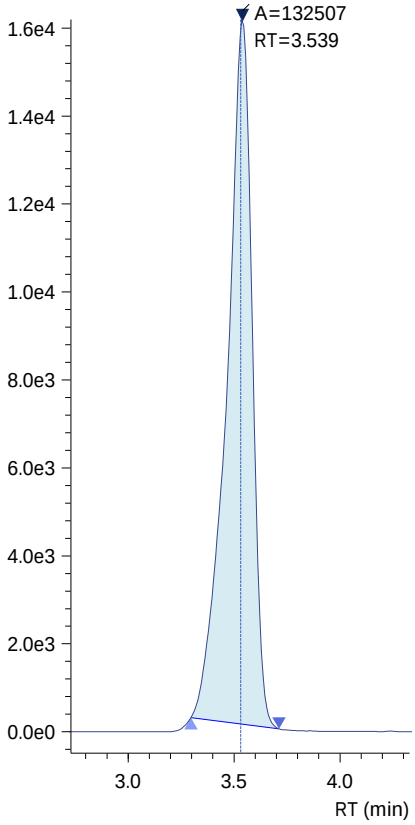
R1 101.00>85.00 (-) 1.26e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

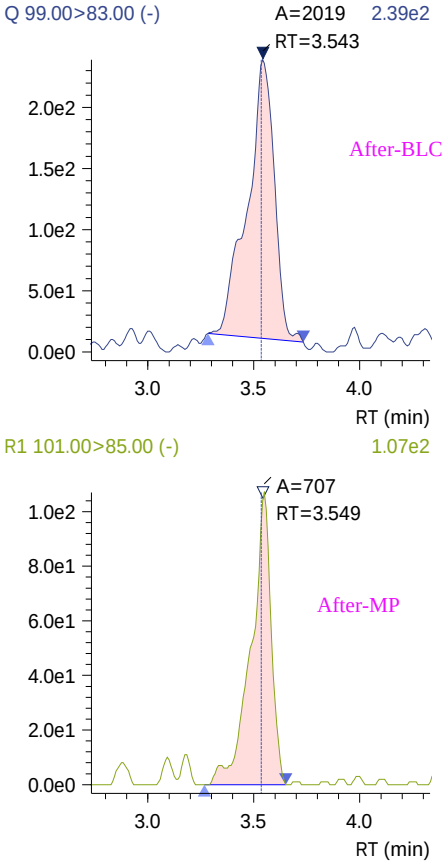
EQ2400188-04ICS

Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.543	2019	133826	0.0974	ng/mL	101.00 >85.00	35.02	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	133826	133826	1.0000	ng/mL	----	----	

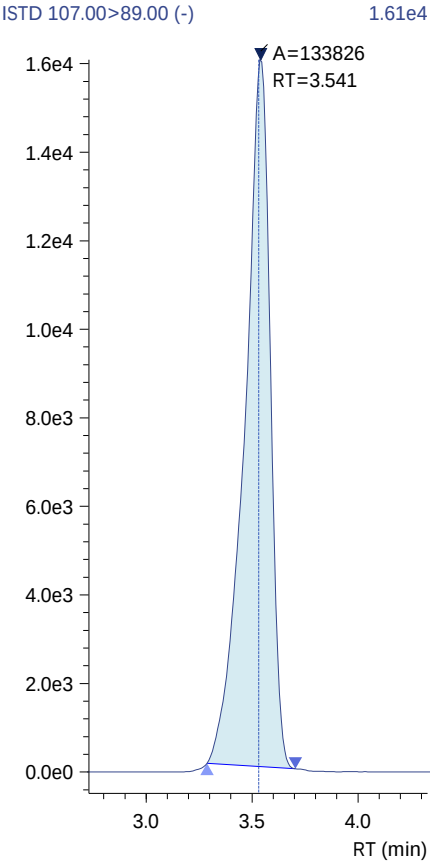
Perchlorate

Conc 0.0974
R#1 35.02 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

CCV

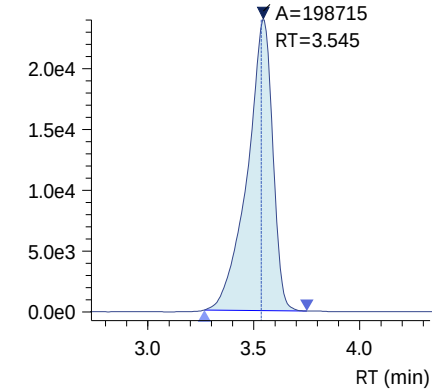
Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.545	1987 15	126867	10.1 095	ng/mL	101.00 >85.00	33.15	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.541	1268 67	126867	1.0000	ng/mL	----	----	

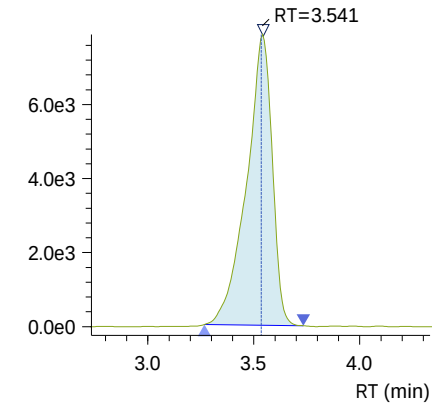
Perchlorate

Conc 10.1095
R#1 33.15 (34.10)

Q 99.00>83.00 (-) 2.40e4



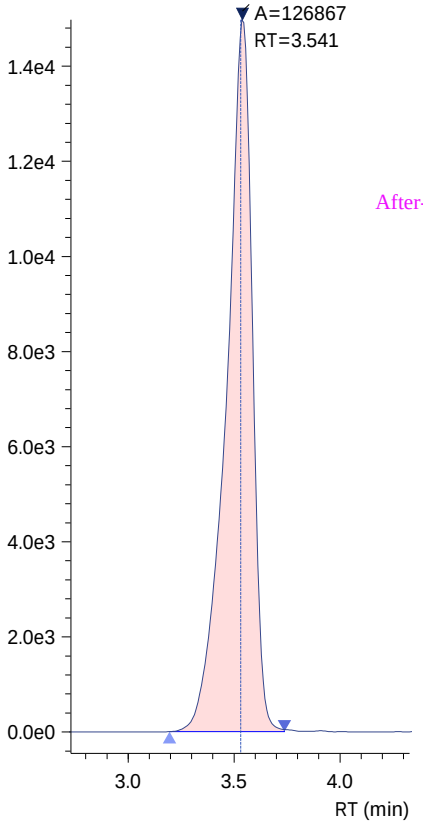
R1 101.00>85.00 (-) A=65871 7.89e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



After-BLC

Insight Report

Printed at 4/19/2024 2:11:15 PM

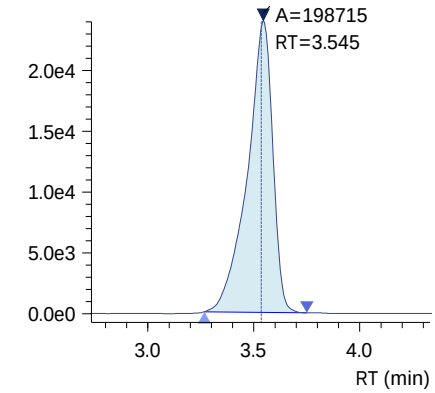
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

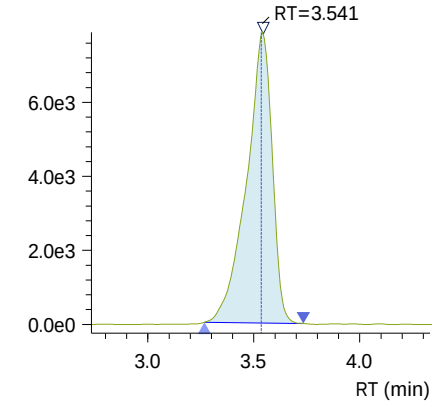
Perchlorate

Conc 10.3881
R#1 33.15 (34.10)

Q 99.00>83.00 (-) 2.40e4



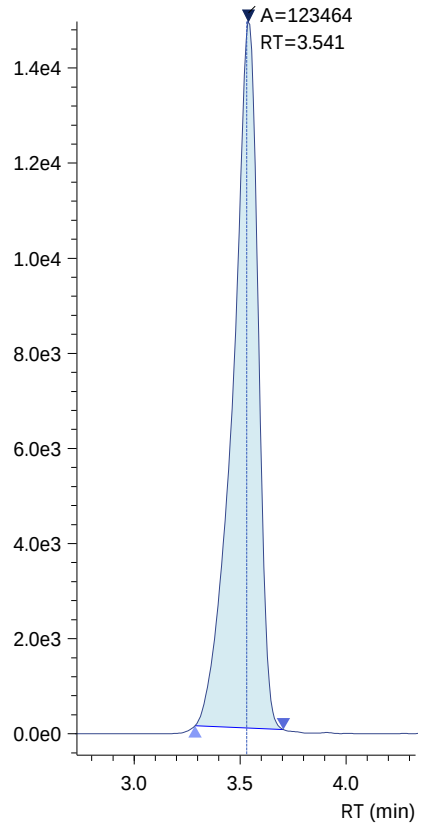
R1 101.00>85.00 (-) A=65871 7.89e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

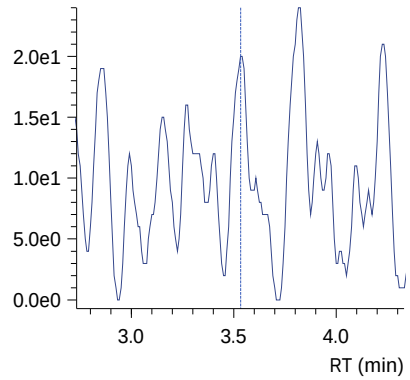
Sample ID: IB
Date Acquired: 4/19/2024 12:53:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	144538	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.540	144538	144538	1.0000	ng/mL	----	----	

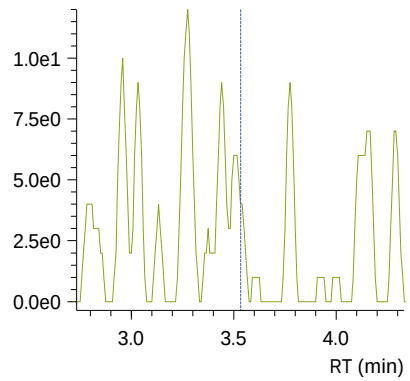
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



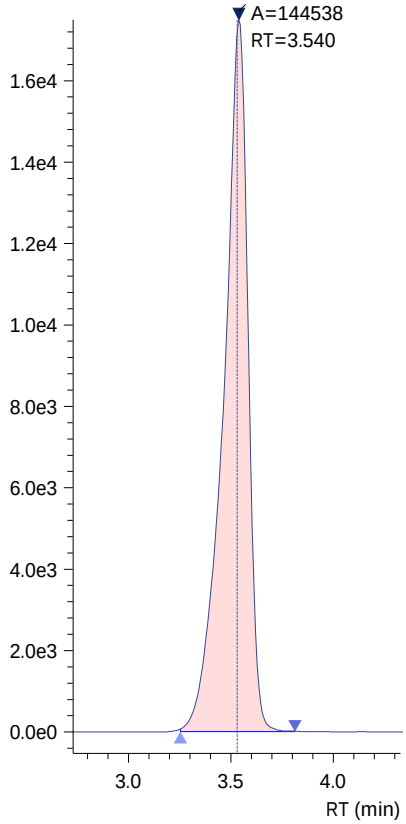
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.75e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

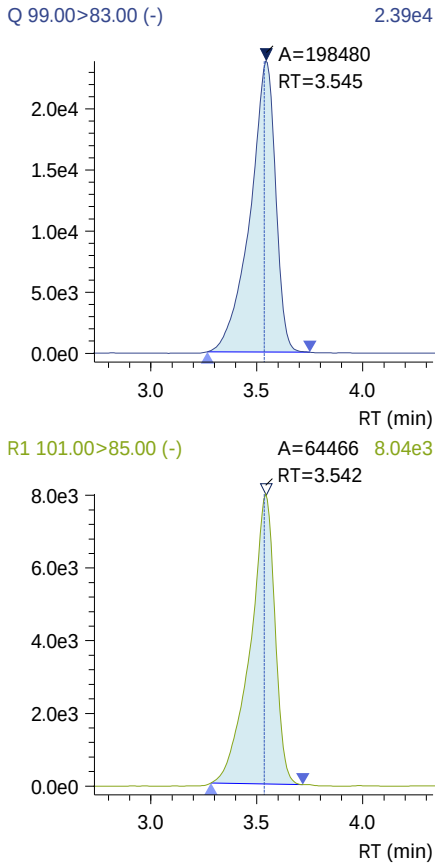
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 2:31:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.545	198480	122485	10.4586	ng/mL	101.00 >85.00	32.48	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.541	122485	122485	1.0000	ng/mL	----	----	

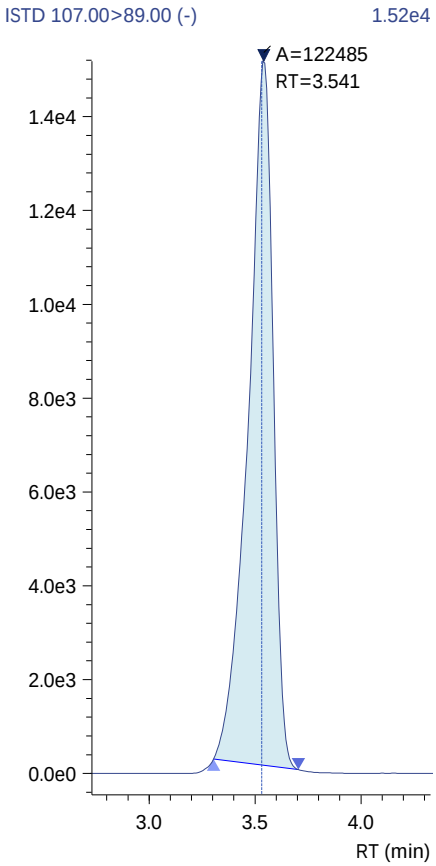
Perchlorate

Conc 10.4586
R#1 32.48 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/24/2024 10:00:22 AM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

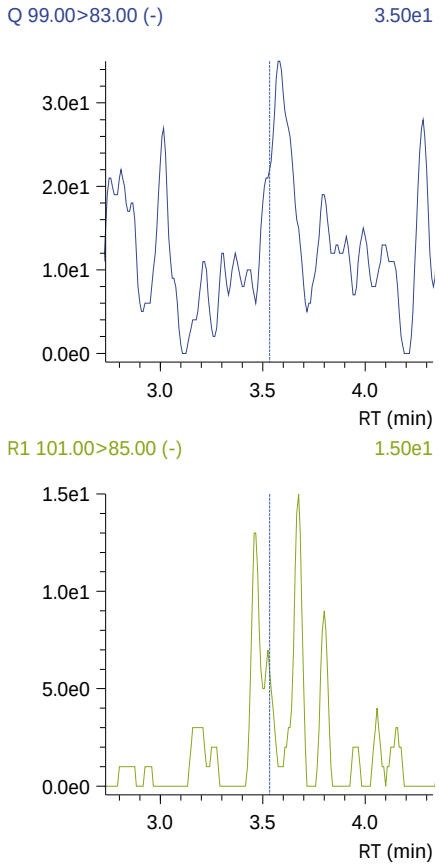
IB

Sample ID: IB
Date Acquired: 4/19/2024 2:37:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	137854	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.540	137854	137854	1.0000	ng/mL	----	----	

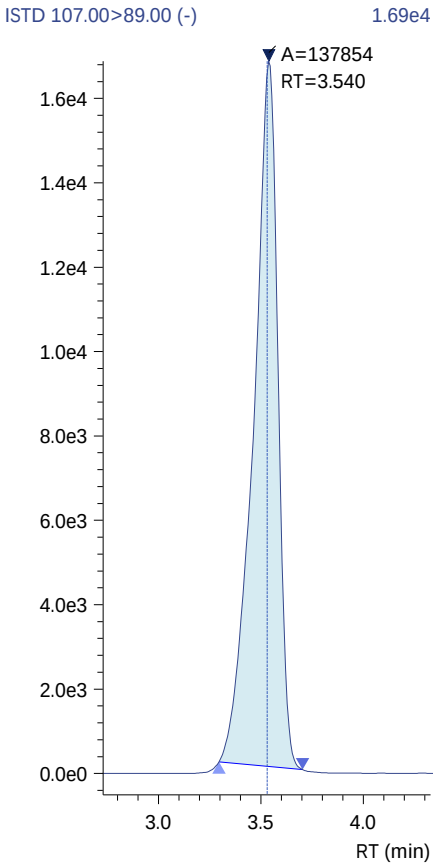
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/24/2024 9:48:07 AM

CCV

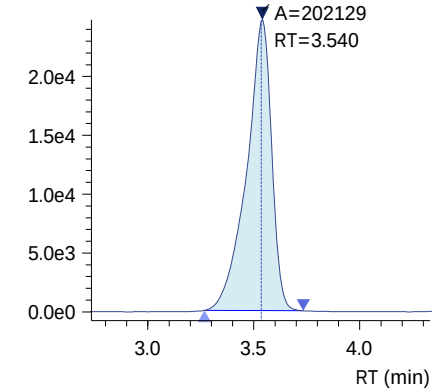
Sample ID: CCV
Date Acquired: 4/19/2024 3:38:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.540	2021 29	124265	10.4 984	ng/mL	101.00 >85.00	32.60	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.534	1242 65	124265	1.0000	ng/mL	----	----	

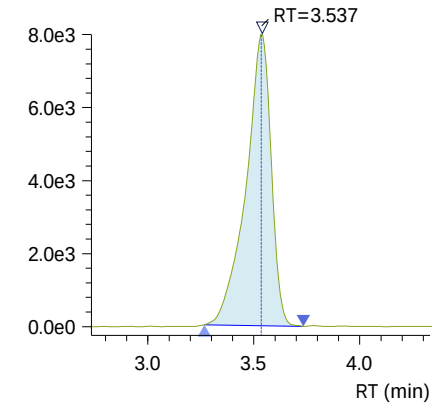
Perchlorate

Conc 10.4984
R#1 32.60 (34.10)

Q 99.00>83.00 (-) 2.48e4



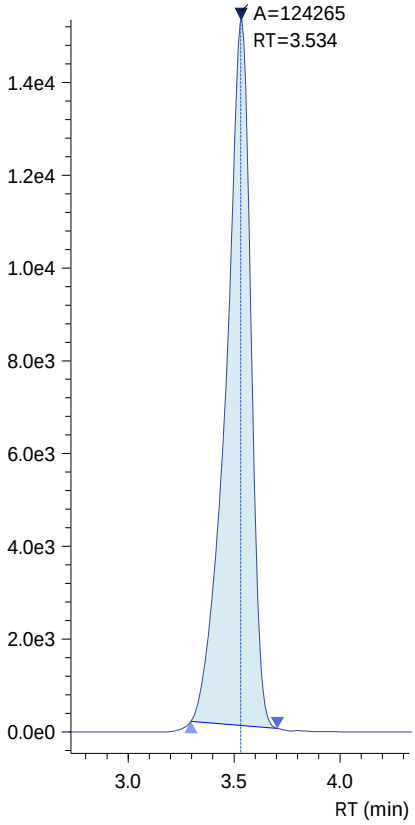
R1 101.00>85.00 (-) A=65896 8.00e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 4/24/2024 10:00:22 AM

IB

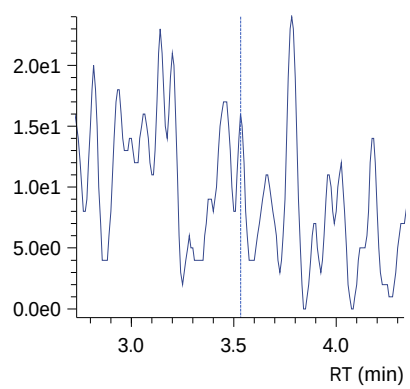
Sample ID: IB
Date Acquired: 4/19/2024 3:43:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	141047	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.535	141047	141047	1.0000	ng/mL	----	----	

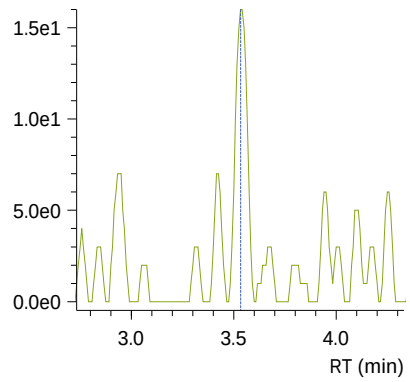
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



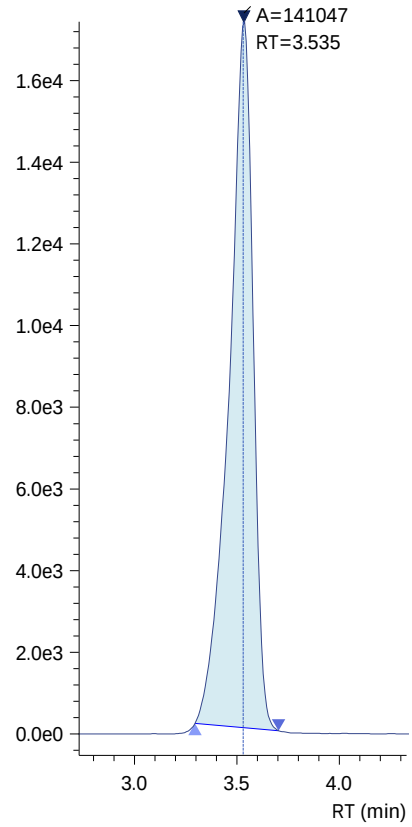
R1 101.00>85.00 (-) 1.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.74e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

E2400358-001x1000

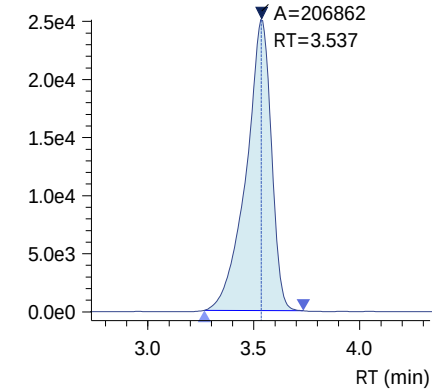
Sample ID: E2400358-001
Date Acquired: 4/19/2024 3:32:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-040.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.537	2068 62	128201	10.4 144	ng/mL	101.00 >85.00	32.78	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.535	1282 01	128201	1.0000	ng/mL	----	----	

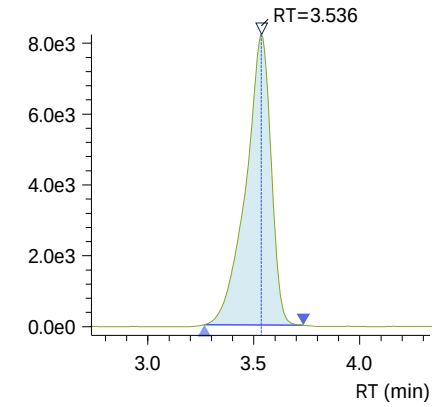
Perchlorate

Conc 10.4144
R#1 32.78 (34.10)

Q 99.00>83.00 (-) 2.51e4



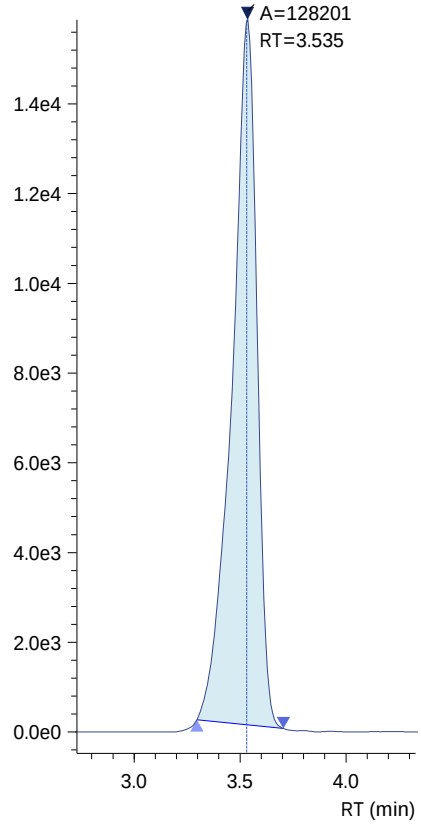
R1 101.00>85.00 (-) A=67818 8.25e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.59e4



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WorkOrder: HS24040786

Longhorn GW Treatment Plant Monthly Effluent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

06-Jun-2024

ALS Environmental
ALS Group USA, Corp
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HS24040786 Wetchem Cr6_W_7196_DOD

HS24040786-MSSEMI-SW8270SIM

- Form 1 - Sample Results
- Form 2 - Surrogates
- Form 3B - LCS/LCSD
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HS24040786-MSVOA-SW8260

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- Form 4 - MB Assoc
- Form 5 - Tune
- Form 6-ICAL
- Form 6I - ICV
- Form 7 - CCV
- Form 8 - ISTD
- Run Log
- Raw Data VOA11_464218 F240416
- Raw Data VOA11_464219 F240416
- Raw Data VOA11_464254 F240416

HS24040786 Longhorn GW Treatment Plant Monthly Effluent Samples COVER PAGE

ALS WO# HS24040786

HS24040786 E2400363 Perch Level IV Final Report

ALS WO# HS24040786

April 24, 2024 Service Request No:E2400363

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040786

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 11, 2024
For your reference, these analyses have been assigned our service request number **E2400363.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
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Client:	ALS Environmental -US	Service Request No.:	E2400363
Project:	HS24040786	Date Received:	04/11/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 04/11/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400188: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400363
Project: HS24040786

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400363-001	LH18/24-SP650_041024_AIX	4/10/2024	1300

Service Request Summary

Folder #: **E2400363**
Client Name: ALS Environmental - US
Project Name: HS24040786
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/11/24
Internal Due Date: 4/23/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo, EQUIS APTIM LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400363-001	LH18/24-SP650_041024_AIX	Water	04/10/24 1300	**IV***

Service Request Summary

Folder #: **E2400363**
Client Name: ALS Environmental - US
Project Name: HS24040786
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/11/24
Internal Due Date: 4/23/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo, EQUIS APTIM LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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E2400363 5
ALS Environmental - US
HS24040786

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25322**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24040786
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040786-02**	**LH18/24-SP650_041024_AIX**	**Water**	**10 Apr 2024 13:00**
	Provide Level II and Level IV reports in separate pdfInclude EDDS - EQUIS EFWEDD_LHAAP and BASICWQC_CASNo			25 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 4/11/24 10:46

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

E2400363 5
ALS Environmental - US
HS24040786

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Sample Receipt Checklist

Work Order ID: HS24040786 **Date/Time received:** 11 Apr 2024 09:30

Client name: Bhate Environmental Associates, Inc. **Received by:** Aytu Tuncer

Completed/By: 11 Apr 2024 10:46 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **Carrier name:** FedEx

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

Temperature(s)/Thermometer(s): 3.0uc/3.1c ir31

Cooler Information: 1 Cooler(s), 43655

Date/Time sample(s) sent to storage: 04/11/2024 1047

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400354-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400358-001	LH18/24-SP140_041024	.01	6850/ClO4 DOD			Water	10mL	
3	E2400363-001	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2400378-001	LTMSW16-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
5	E2400378-002	LTMSW15-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
6	E2400378-003	FD01-SW-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
7	E2400378-004	LTMSW14-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
8	E2400378-005	LTMSW13-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
9	E2400378-006	LTMSW12-040924	.03	6850/ClO4 DOD			Surface Water	10mL	
10	E2400381-001	2404091004A PL-1-486	.01	6850/ClO4 DOD			Water	10mL	
11	E2400391-001	LH18/24-SP650_041724_BIX	.01	6850/ClO4 DOD			Water	10mL	
12	E2400391-002	LH18/24-SP650_041724_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	EQ2400188-01	MB		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400188-02	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400188-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400188-04	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400188-05	LTMSW12-040924 MS	.03	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400188-06	LTMSW12-040924 DMS	.03	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400188-02 10.00µL EQ2400188-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400391-001 100.00µL E2400391-002 100.00µL EQ2400188-01 100.00µL EQ2400188-02 100.00µL EQ2400188-03 100.00µL EQ2400188-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400188-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer-Lok Syringes (228117)

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

Preparation Steps

Step: Preparation
Started: 4/19/24 09:00
Finished: 4/19/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP650_041024_AIX	**Units:**	µg/L
Lab Code:	E2400363-001	**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	ND	U	0.100	0.0500	0.0250	1	4/19/24	4/19/24 14:48	437153	838801	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400188-01	**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	4/19/24	4/19/24 11:44	437153	838403	

Accuracy & Precision

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786
Sample Matrix: Water

Service Request: E2400363
Date Analyzed: 4/19/24

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: 437153

	Lab Control Sample EQ2400188-02			Duplicate Lab Control Sample EQ2400188-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.111	0.100	111	0.118	0.100	118	84 - 119	6	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:**	E2400363
Project:	HS24040786	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-02	**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	**0.111**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:50	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-03	**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	4/19/24	4/19/24 11:56	437153	838403	

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

835280

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240328-001	IB	Perchlorate6850c.lcm	1x		3/28/2024 18:50
2	20240328-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	3/28/2024 18:56
3	20240328-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	3/28/2024 19:01
4	20240328-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	3/28/2024 19:07
5	20240328-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	3/28/2024 19:12
6	20240328-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	3/28/2024 19:18
7	20240328-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	3/28/2024 19:23
8	20240328-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	3/28/2024 19:29
9	20240328-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	3/28/2024 19:34
10	20240328-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	3/28/2024 19:40
11	20240328-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	3/28/2024 19:46
12	20240328-012	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	3/28/2024 19:51
13	20240328-013	IB	Perchlorate6850c.lcm	1x		3/28/2024 19:57
14	20240328-014	LODV	Perchlorate6850c.lcm	1x		3/28/2024 20:08
15	20240328-015	EQ2400151-04ICS	Perchlorate6850c.lcm	1x		3/28/2024 20:13
16	20240328-016	CCV	Perchlorate6850c.lcm	1x		3/28/2024 20:19
17	20240328-017	IB	Perchlorate6850c.lcm	1x		3/28/2024 20:24
18	20240328-018	EQ2400151-01MB	Perchlorate6850c.lcm	1x		3/28/2024 20:30
19	20240328-019	EQ2400151-02LCS	Perchlorate6850c.lcm	1x		3/28/2024 20:35
20	20240328-020	EQ2400151-03DLCS	Perchlorate6850c.lcm	1x		3/28/2024 20:41
21	20240328-022	E2400265-001	Perchlorate6850c.lcm	1x		3/28/2024 20:52
22	20240328-023	E2400268-001	Perchlorate6850c.lcm	1x		3/28/2024 20:58
23	20240328-024	E2400268-002	Perchlorate6850c.lcm	1x		3/28/2024 21:03
24	20240328-025	E2400271-001	Perchlorate6850c.lcm	1x		3/28/2024 21:09
25	20240328-026	E2400271-002	Perchlorate6850c.lcm	1x		3/28/2024 21:14
26	20240328-027	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:20
27	20240328-028	CCV	Perchlorate6850c.lcm	1x		3/28/2024 21:25
28	20240328-029	IB	Perchlorate6850c.lcm	1x		3/28/2024 21:31
29	20240328-030	E2400296-002	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:36
30	20240328-031	E2400296-003	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:42
31	20240328-032	CCV	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:47
32	20240328-033	IB	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:53

Initial Calibration - Detailed Report

Calibration ID: EC2400005 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400005-01	Perchlorate ICAL 1	20240328-002	03/28/2024 18:56
02	EC2400005-02	Perchlorate ICAL 2	20240328-003	03/28/2024 19:01
03	EC2400005-03	Perchlorate ICAL 3	20240328-004	03/28/2024 19:07
04	EC2400005-04	Perchlorate ICAL 4	20240328-005	03/28/2024 19:12
05	EC2400005-05	Perchlorate ICAL 5	20240328-006	03/28/2024 19:18
06	EC2400005-06	Perchlorate ICAL 6	20240328-007	03/28/2024 19:23
07	EC2400005-07	Perchlorate ICAL 7	20240328-008	03/28/2024 19:29
08	EC2400005-08	Perchlorate ICAL 8	20240328-009	03/28/2024 19:34
09	EC2400005-09	Perchlorate ICAL 9	20240328-010	03/28/2024 19:40
10	EC2400005-10	Perchlorate ICAL 10	20240328-011	03/28/2024 19:46

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.135** **Average RF = 0.1549**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1349	02	0.5000	0.1452	03	0.7000	0.1473	04	1.0000	0.1539
05	2.0000	0.1596	06	5.0000	0.1596	07	10.0000	0.1635	08	20.0000	0.1613
09	30.0000	0.1629	10	50.0000	0.161						

Analyte

Perchlorate RSE = 6.14

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0871	-12.9	02	0.5000	0.469	-6.3	03	0.7000	0.666	-4.9
04	1.0000	0.994	-0.6	05	2.0000	2.06	3.0	06	5.0000	5.15	3.0
07	10.0000	10.6	5.6	08	20.0000	20.8	4.1	09	30.0000	31.5	5.1
10	50.0000	52.0	3.9								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400005	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240328-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400005-11	T	Average RF	10	10.397	ng/mL	4.0	<= 15

Insight Report

Printed at 3/29/2024 12:40:08 PM

IB

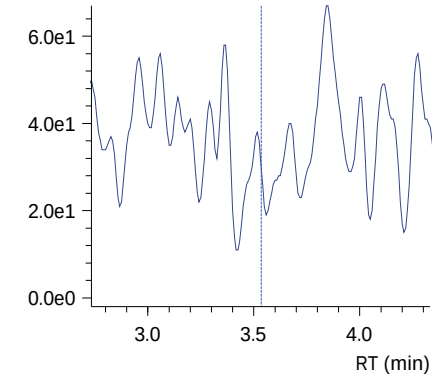
Sample ID: IB
Date Acquired: 3/28/2024 7:57:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	174347	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.516	174347	174347	1.0000	ng/mL	----	----	

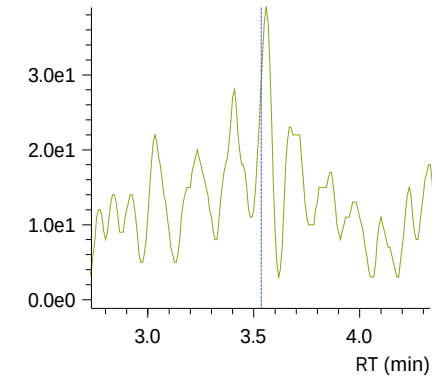
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 6.70e1



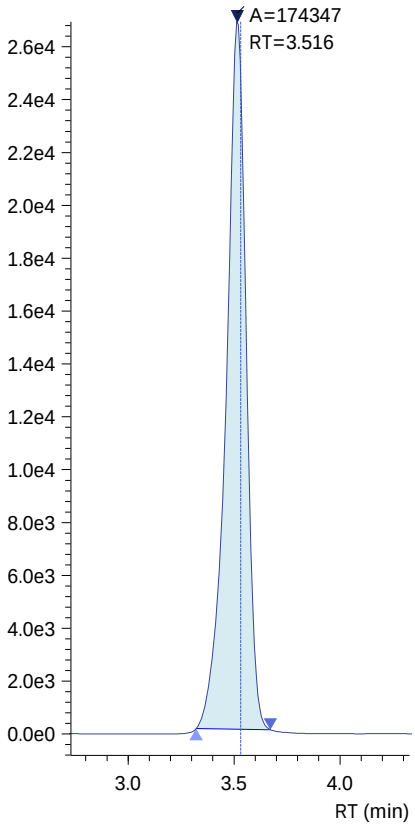
R1 101.00>85.00 (-) 3.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.69e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240328\20240328.damlp

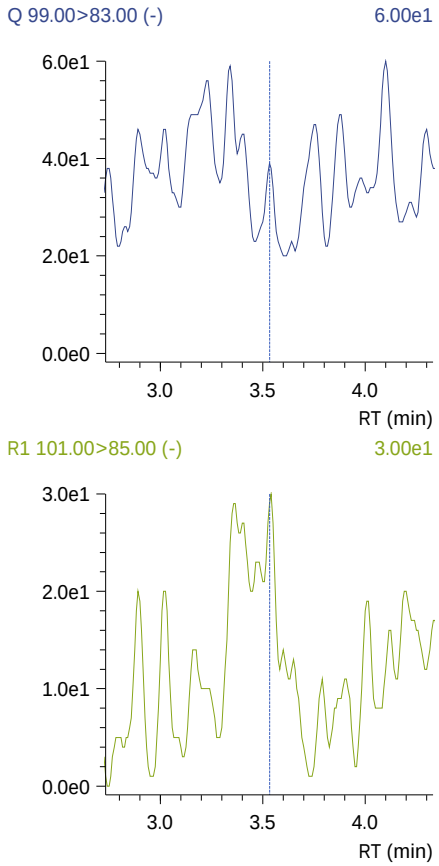
IB

Sample ID: IB
Date Acquired: 3/28/2024 6:50:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	242889	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.523	242889	242889	1.0000	ng/mL	----	----	

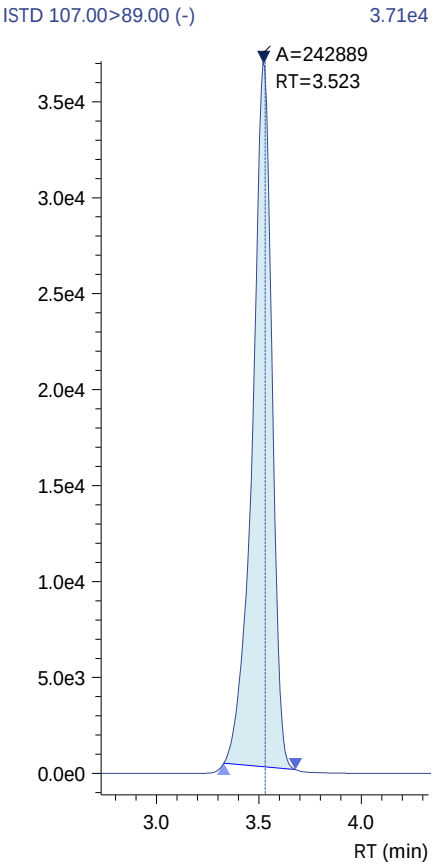
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

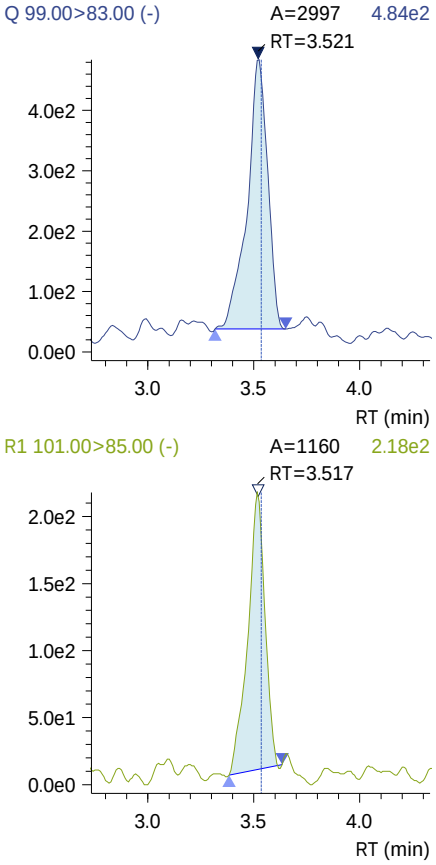
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 3/28/2024 6:56:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	2997	222150	0.0871	ng/mL	101.00 >85.00	38.69	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.521	222150	222150	1.0000	ng/mL	----	----	

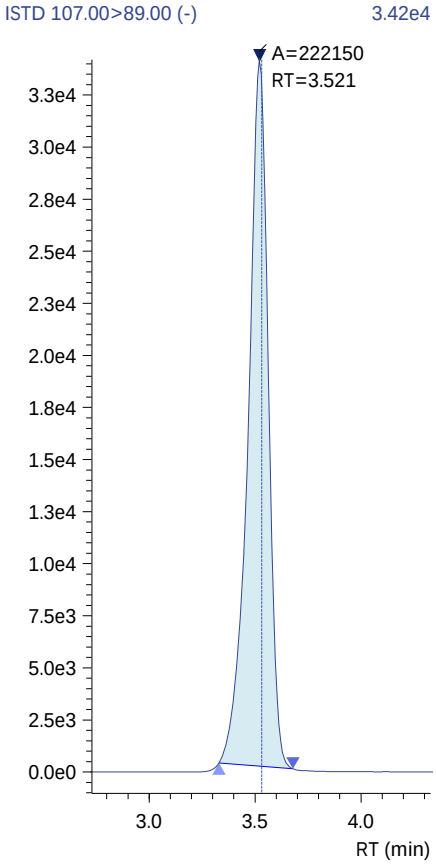
Perchlorate

Conc 0.0871
R#1 38.69 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

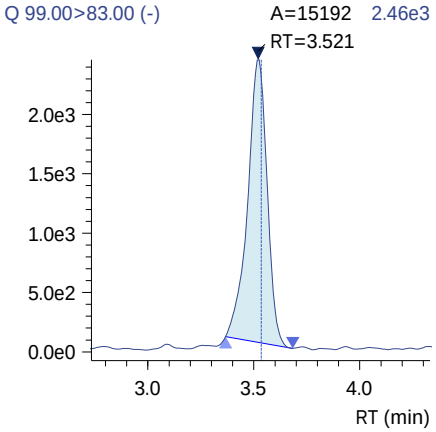
Perchlorate ICAL 2

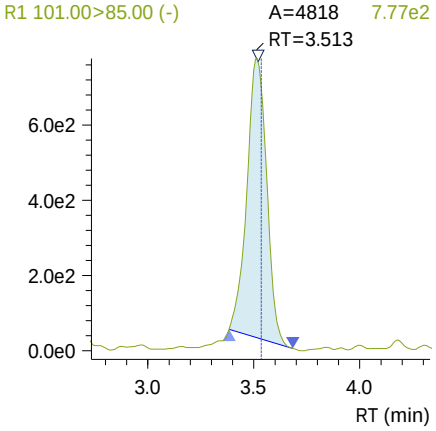
Sample ID: Perchlorate ICAL 2
Date Acquired: 3/28/2024 7:01:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	15192	209260	0.4686	ng/mL	101.00 >85.00	31.71	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.519	209260	209260	1.0000	ng/mL	----	----	

Perchlorate

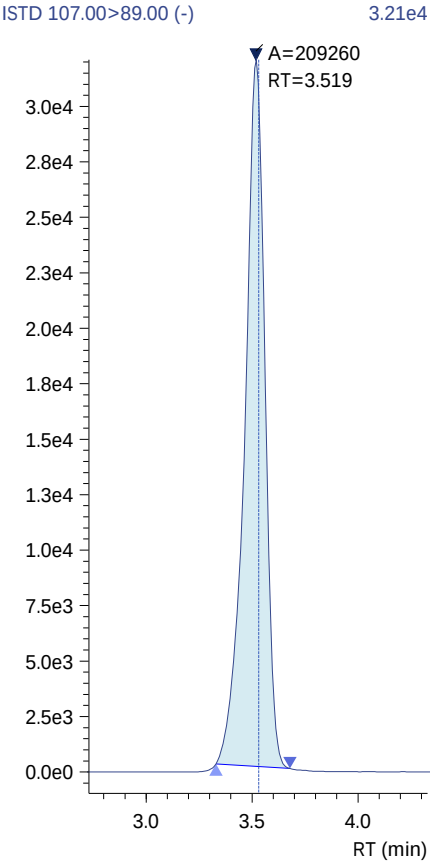
Conc 0.4686
R#1 31.71 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

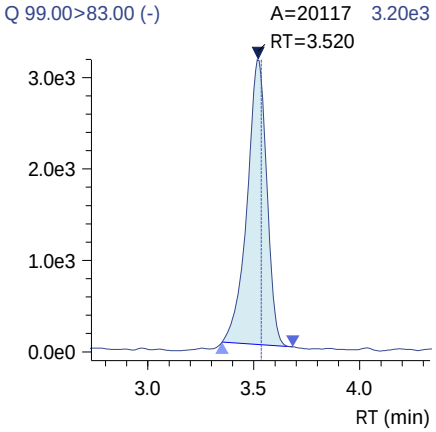
Perchlorate ICAL 3

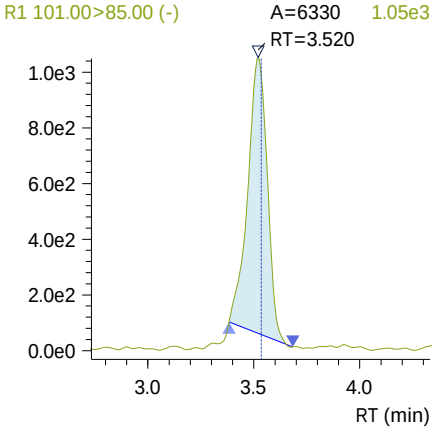
Sample ID: Perchlorate ICAL 3
Date Acquired: 3/28/2024 7:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	20117	195056	0.6657	ng/mL	101.00 >85.00	31.46	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	195056	195056	1.0000	ng/mL	----	----	

Perchlorate

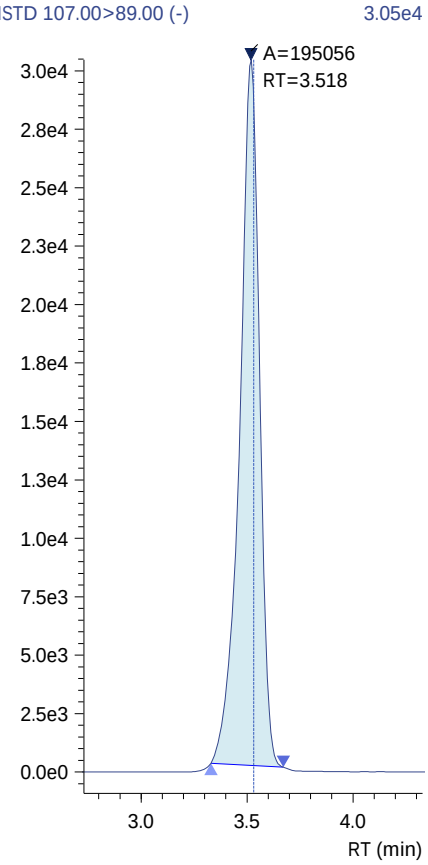
Conc 0.6657
R#1 31.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

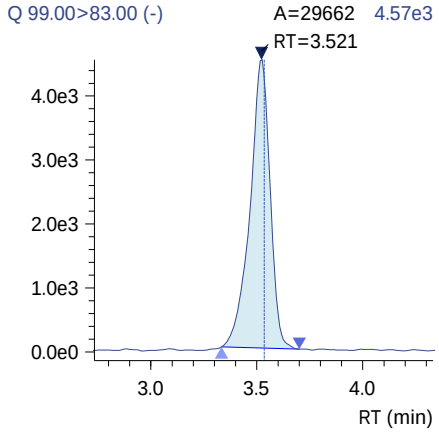
Perchlorate ICAL 4

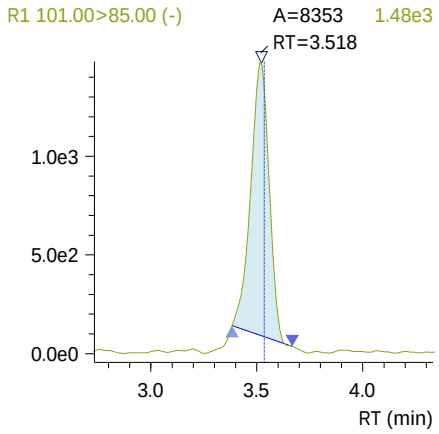
Sample ID: Perchlorate ICAL 4
Date Acquired: 3/28/2024 7:12:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	29662	192682	0.9936	ng/mL	101.00 >85.00	28.16	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	192682	192682	1.0000	ng/mL	----	----	

Perchlorate

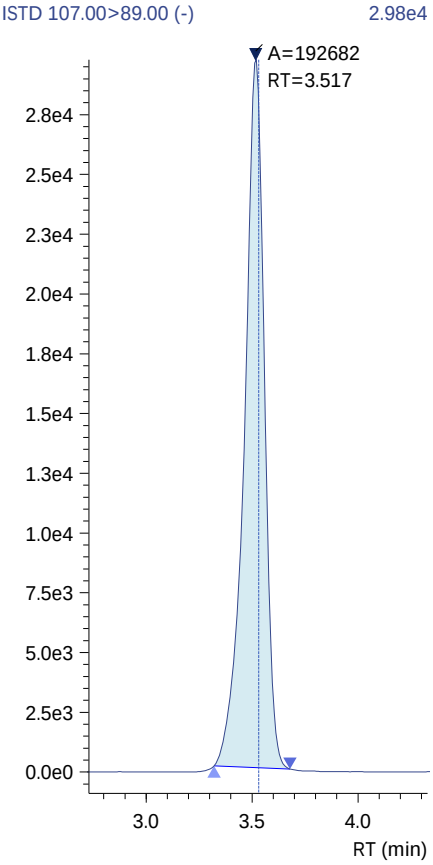
Conc 0.9936
R#1 28.16 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

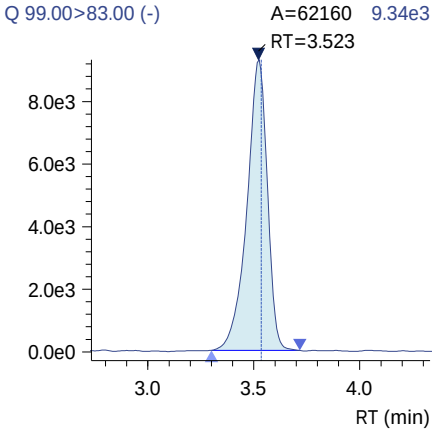
Perchlorate ICAL 5

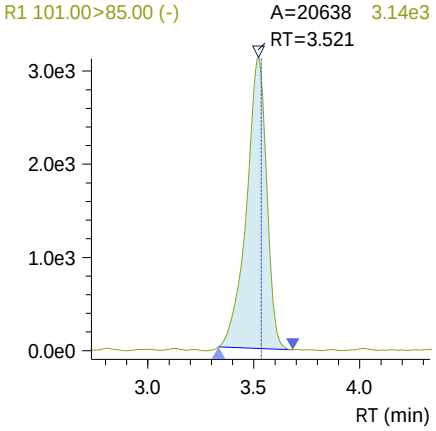
Sample ID: Perchlorate ICAL 5
Date Acquired: 3/28/2024 7:18:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	62160	194691	2.0607	ng/mL	101.00 >85.00	33.20	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	194691	194691	1.0000	ng/mL	----	----	

Perchlorate

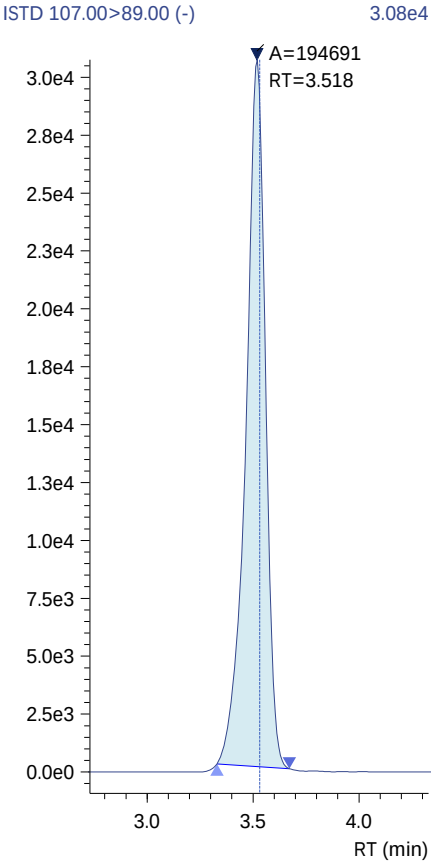
Conc 2.0607
R#1 33.20 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 6

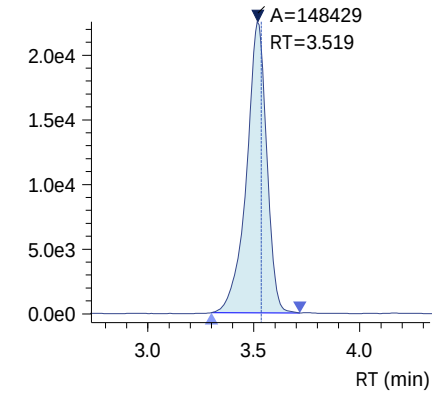
Sample ID: Perchlorate ICAL 6
Date Acquired: 3/28/2024 7:23:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	148429	185979	5.1511	ng/mL	101.00 >85.00	33.89	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	185979	185979	1.0000	ng/mL	----	----	

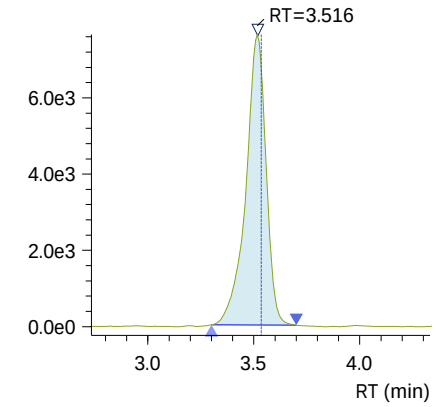
Perchlorate

Conc 5.1511
R#1 33.89 (34.10)

Q 99.00>83.00 (-) 2.26e4



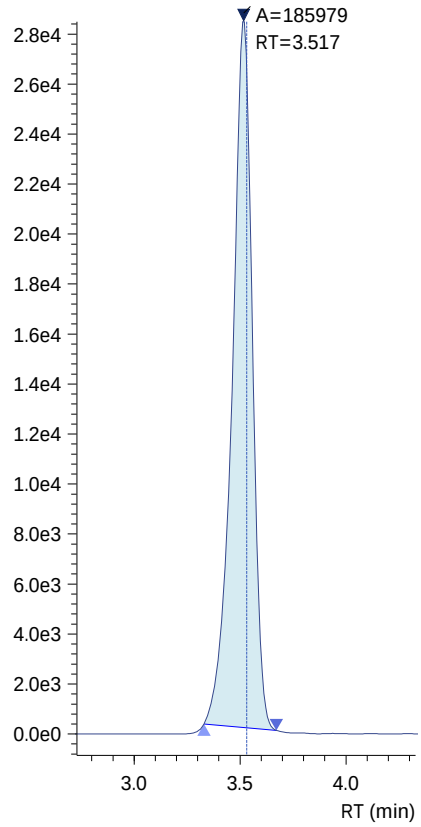
R1 101.00>85.00 (-) A=50306 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.85e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

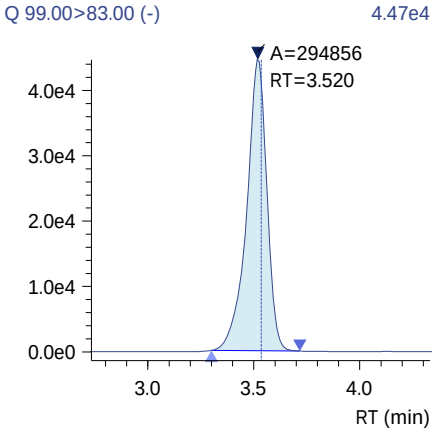
Perchlorate ICAL 7

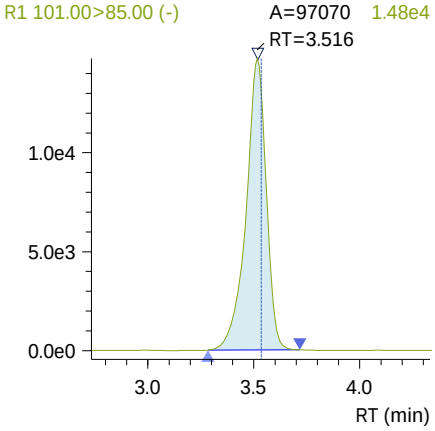
Sample ID: Perchlorate ICAL 7
Date Acquired: 3/28/2024 7:29:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	294856	180287	10.5 558	ng/mL	101.00 >85.00	32.92	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	180287	180287	1.0000	ng/mL	----	----	

Perchlorate

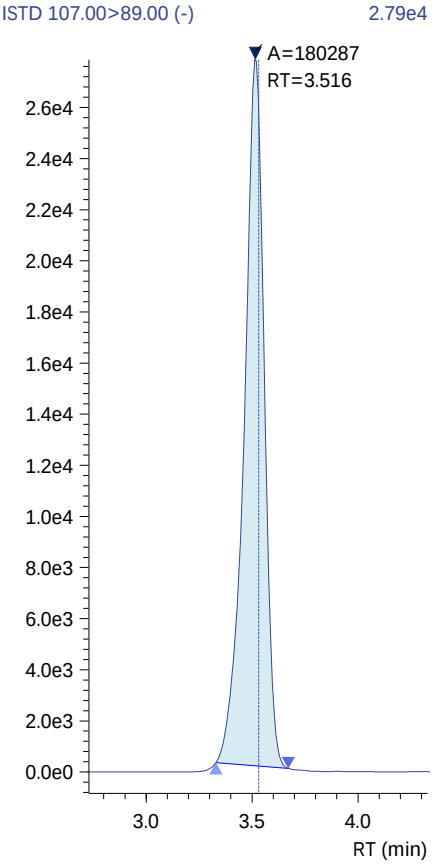
Conc 10.5558
R#1 32.92 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 8

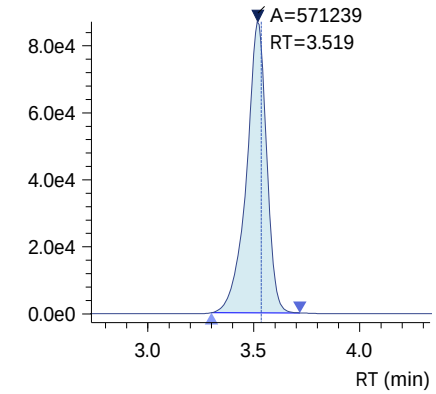
Sample ID: Perchlorate ICAL 8
Date Acquired: 3/28/2024 7:34:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	571239	177068	20.8	ng/mL	101.00	33.33	22.32
					220		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	177068	177068	1.0000	ng/mL	----	----	

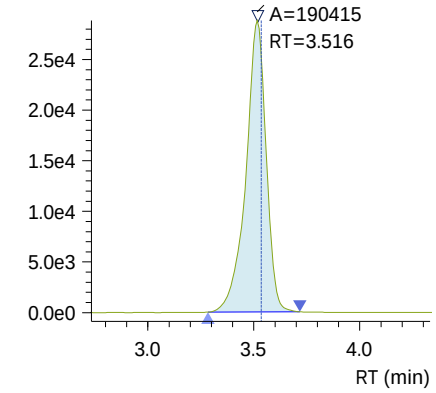
Perchlorate

Conc 20.8220
R#1 33.33 (34.10)

Q 99.00>83.00 (-) 8.72e4



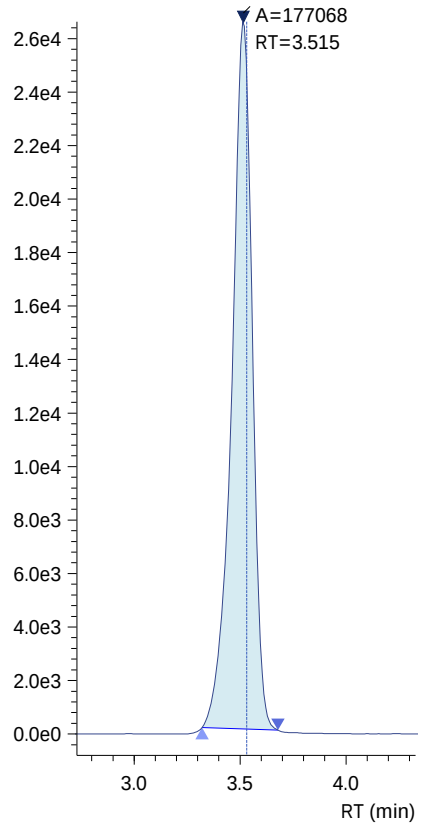
R1 101.00>85.00 (-) 2.89e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 9

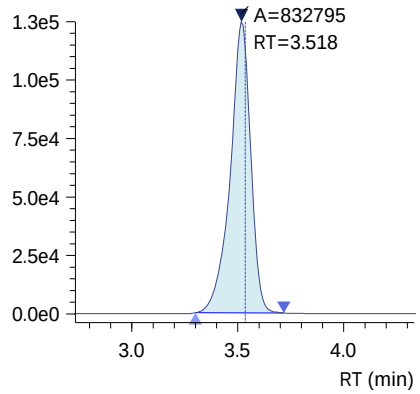
Sample ID: Perchlorate ICAL 9
Date Acquired: 3/28/2024 7:40:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.518	832795	170448	31.5	ng/mL	101.00	33.17	22.32
					348		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	170448	170448	1.0000	ng/mL	----	----	

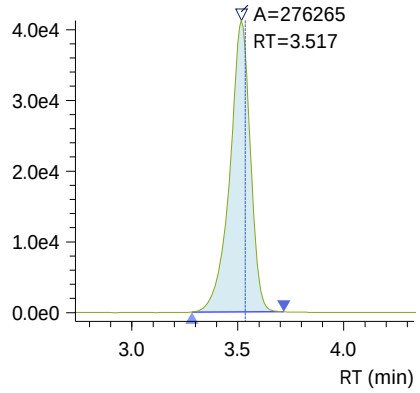
Perchlorate

Conc 31.5348
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 1.25e5



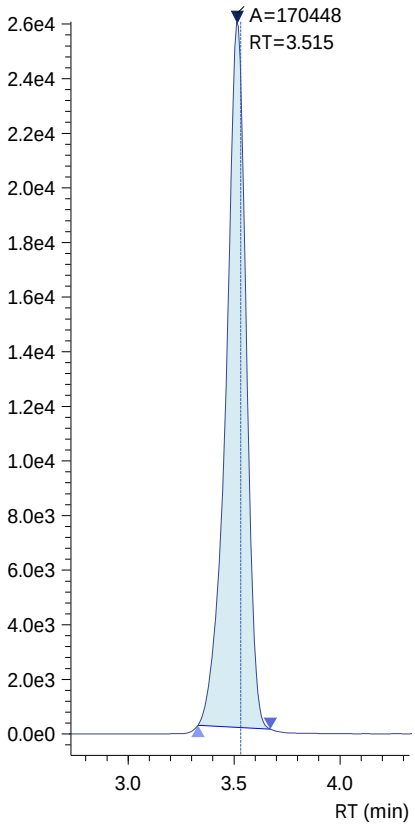
R1 101.00>85.00 (-) 4.13e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.61e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 10

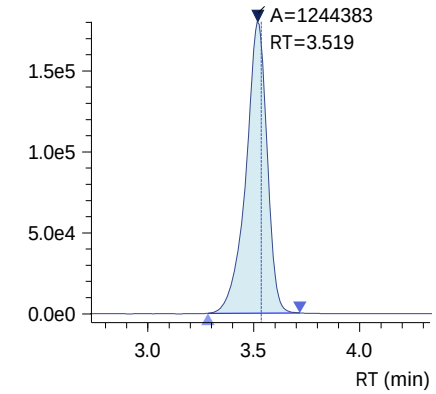
Sample ID: Perchlorate ICAL 10
Date Acquired: 3/28/2024 7:46:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	12443	154566	51.9	ng/mL	101.00	33.24	22.32
			83		618		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	154566	154566	1.0000	ng/mL	----	----	

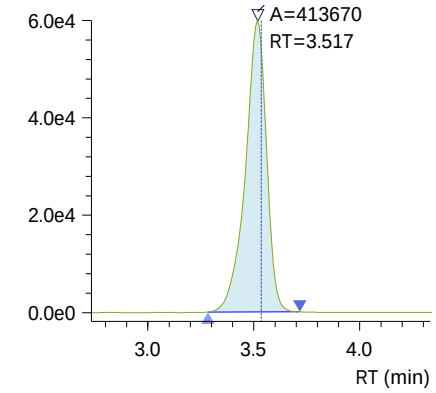
Perchlorate

Conc 51.9618
R#1 33.24 (34.10)

Q 99.00>83.00 (-) 1.80e5



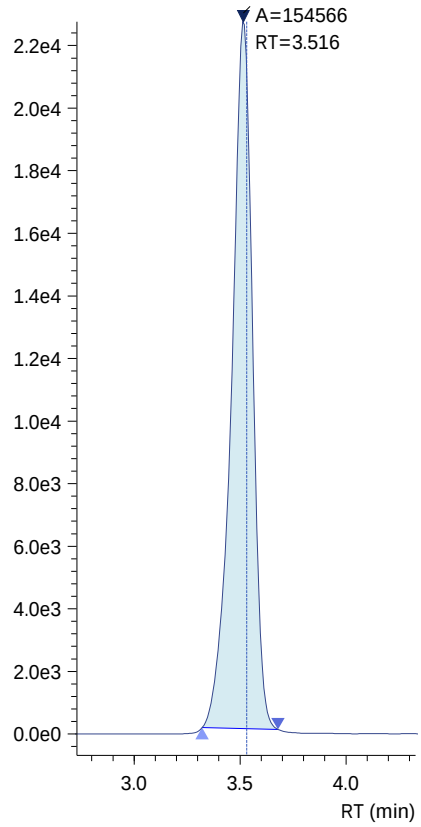
R1 101.00>85.00 (-) 6.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.28e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

PerchlorateICV

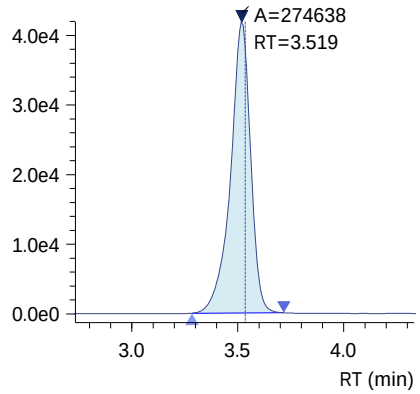
Sample ID: PerchlorateICV
Date Acquired: 3/28/2024 7:51:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	274638	170488	10.3971	ng/mL	101.00 >85.00	32.30	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.515	170488	170488	1.0000	ng/mL	----	----	

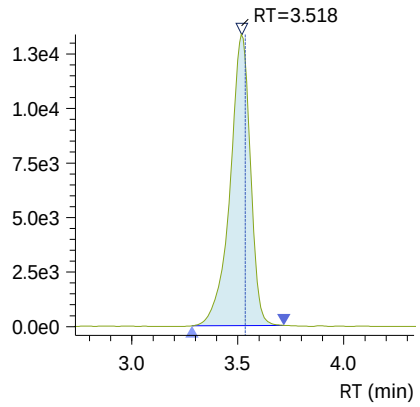
Perchlorate

Conc 10.3971
R#1 32.30 (34.10)

Q 99.00>83.00 (-) 4.20e4



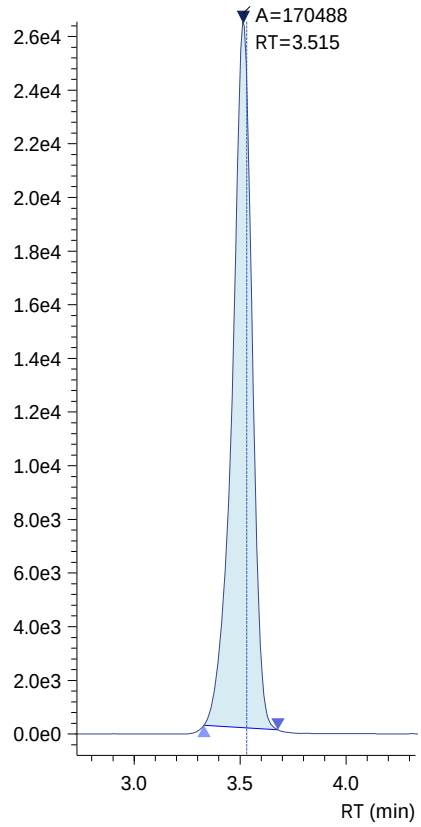
R1 101.00>85.00 (-) A=88704 1.34e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



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

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240419-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240419-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240419-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240419-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240419-005	CCV	Perchlorate6850c.lcm	1x		4/19/2024 10:52
6	20240419-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240419-007	E2400391-001	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:18
8	20240419-008	E2400391-002	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:24
9	20240419-009	EQ2400188-01MB	Perchlorate6850c.lcm	1x		4/19/2024 11:44
10	20240419-010	EQ2400188-02LCS	Perchlorate6850c.lcm	1x		4/19/2024 11:50
11	20240419-011	EQ2400188-03DLCS	Perchlorate6850c.lcm	1x		4/19/2024 11:56
12	20240419-012	EQ2400188-04ICS	Perchlorate6850c.lcm	1x		4/19/2024 12:01
13	20240419-013	E2400391-001	Perchlorate6850c.lcm	1x		4/19/2024 12:07
14	20240419-014	E2400391-002	Perchlorate6850c.lcm	1x		4/19/2024 12:12
15	20240419-015	EQ2400188-05MS	Perchlorate6850c.lcm	1x		4/19/2024 12:37
16	20240419-016	EQ2400188-06MSD	Perchlorate6850c.lcm	1x		4/19/2024 12:42
17	20240419-017	CCV	Perchlorate6850c.lcm	1x		4/19/2024 12:48
18	20240419-018	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:53
19	20240419-019	E2400354-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 12:59
20	20240419-020	E2400358-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:04
21	20240419-021	E2400363-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:10
22	20240419-022	E2400378-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:15
23	20240419-023	E2400378-002	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:21
24	20240419-024	E2400378-003	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:26
25	20240419-025	E2400378-004	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:32
26	20240419-026	E2400378-005	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:37
27	20240419-027	E2400378-006	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:43
28	20240419-028	E2400381-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:48
29	20240419-029	CCV	Perchlorate6850c.lcm			4/19/2024 14:31
30	20240419-030	IB	Perchlorate6850c.lcm			4/19/2024 14:37
31	20240419-031	E2400354-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 14:42
32	20240419-032	E2400363-001	Perchlorate6850c.lcm	1x		4/19/2024 14:48
33	20240419-033	E2400378-001	Perchlorate6850c.lcm	1x		4/19/2024 14:54
34	20240419-034	E2400378-002	Perchlorate6850c.lcm	1x		4/19/2024 14:59
35	20240419-035	E2400378-003	Perchlorate6850c.lcm	1x		4/19/2024 15:05
36	20240419-036	E2400378-004	Perchlorate6850c.lcm	1x		4/19/2024 15:10
37	20240419-037	E2400378-005	Perchlorate6850c.lcm	1x		4/19/2024 15:16
38	20240419-038	E2400378-006	Perchlorate6850c.lcm	1x		4/19/2024 15:21
39	20240419-039	E2400381-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 15:27
40	20240419-040	E2400358-001x1000	Perchlorate6850c.lcm	1000x		4/19/2024 15:32

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240419-041	CCV	Perchlorate6850c.lcm			4/19/2024 15:38
42	20240419-042	IB	Perchlorate6850c.lcm			4/19/2024 15:43
43	20240419-043	E2400354-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 15:49
44	20240419-044	E2400354-001X10	Perchlorate6850c.lcm			4/19/2024 15:54
45	20240419-045	E2400381-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 16:00
46	20240419-046	E2400381-001x10	Perchlorate6850c.lcm			4/19/2024 16:05
47	20240419-047	LCSTW1	Perchlorate6850c.lcm			4/19/2024 16:11
48	20240419-048	LCSTW2	Perchlorate6850c.lcm			4/19/2024 16:17
49	20240419-049	LCSTW3	Perchlorate6850c.lcm			4/19/2024 16:22
50	20240419-050	LCSTW4	Perchlorate6850c.lcm			4/19/2024 16:28
51	20240419-051	LCSNV1	Perchlorate6850c.lcm			4/19/2024 16:33
52	20240419-052	LCSNV2	Perchlorate6850c.lcm			4/19/2024 16:39
53	20240419-053	CCV	Perchlorate6850c.lcm			4/19/2024 16:44
54	20240419-054	IB	Perchlorate6850c.lcm			4/19/2024 16:50
55	20240419-055	LCSNV3	Perchlorate6850c.lcm			4/19/2024 16:55
56	20240419-056	LCSNV4	Perchlorate6850c.lcm			4/19/2024 17:01
57	20240419-057	CCV	Perchlorate6850c.lcm			4/19/2024 17:07
58	20240419-058	IB	Perchlorate6850c.lcm			4/19/2024 17:12

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 10:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Lab Code:**	EQ2400189-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-01	122,793	3.55
Method Blank	EQ2400188-01	134,100	3.54
Lab Control Sample	EQ2400188-02	131,541	3.54
Duplicate Lab Control Sample	EQ2400188-03	132,507	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 12:48

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Lab Code:**	EQ2400189-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-02	126,867	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 10:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Lab Code:**	EQ2400196-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-01	122,793	3.55

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 12:48

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Lab Code:**	EQ2400196-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-02	126,867	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 14:31

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-029	**Lab Code:**	EQ2400196-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-03	122,485	3.54
LH18/24-SP650_041024_AIX	E2400363-001	131,796	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 15:38

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-041	**Lab Code:**	EQ2400196-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-04	124,265	3.53

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 16:44

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-053	**Lab Code:**	EQ2400196-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-05	117,181	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	3/28/24
File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Calibration ID:**	EC2400005
		Analysis Lot:	838403
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.69	0.1549	0.1501	-3.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-017

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838403
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1566	1.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-005

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.69	0.1549	0.1501	-3.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-017

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1566	1.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	3/28/24
File ID:	I:\LCMS01\DATA\20240419\20240419-029	**Calibration ID:**	EC2400005
		Analysis Lot:	838801
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1620	4.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-041

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1627	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-053

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1631	5.3	NA	± 15 %	Average RF

Insight Report

Printed at 4/19/2024 2:11:15 PM

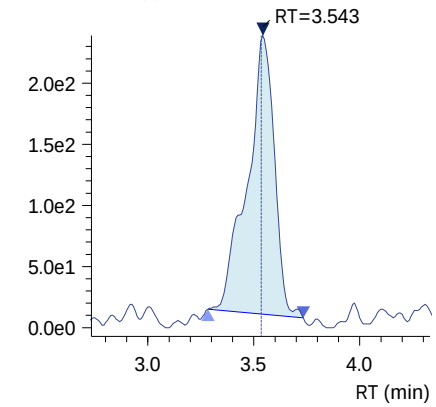
EQ2400188-04ICS

Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

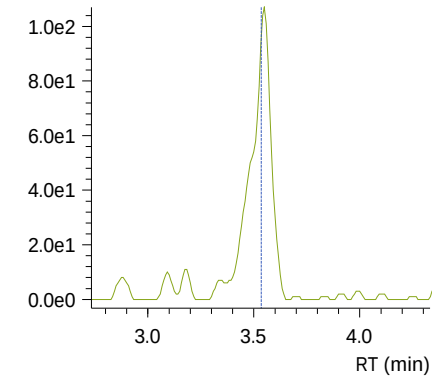
Perchlorate

Conc 0.0974
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2019 2.39e2



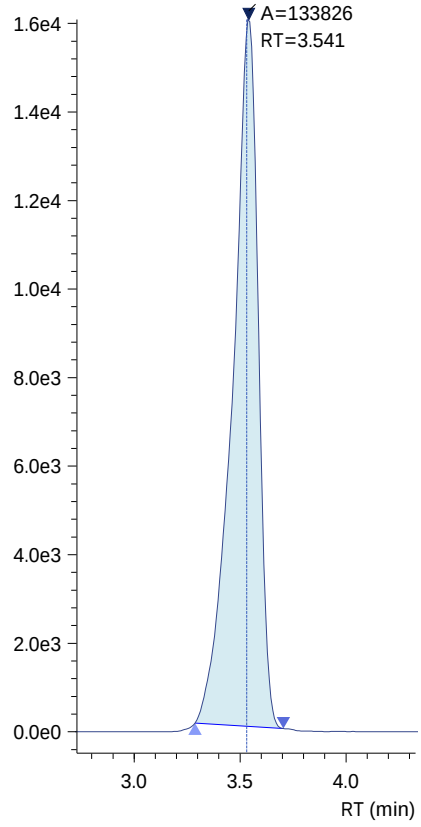
R1 101.00>85.00 (-) 1.07e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

IB

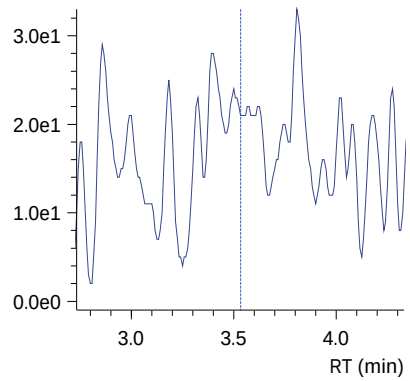
Sample ID: IB
Date Acquired: 4/19/2024 10:30:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	155603	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.554	155603	155603	1.0000	ng/mL	----	----	

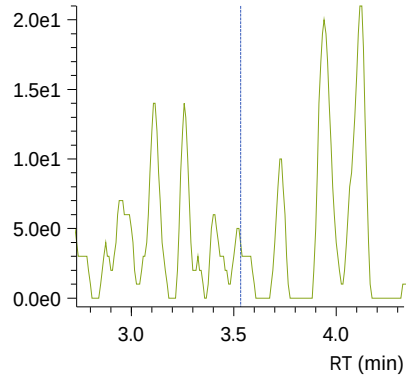
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.30e1



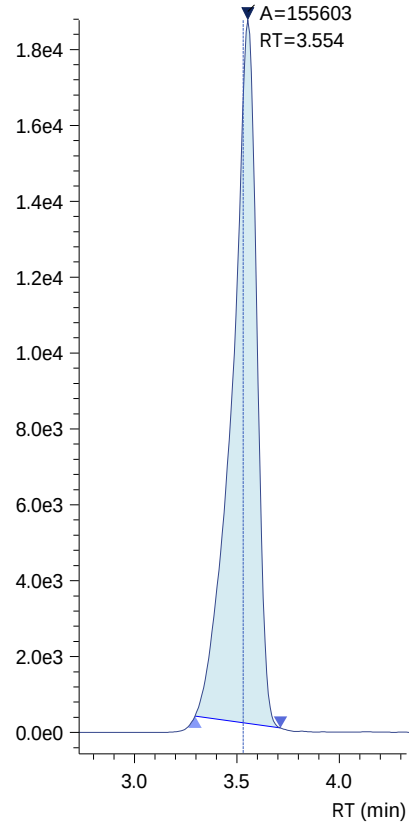
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.88e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

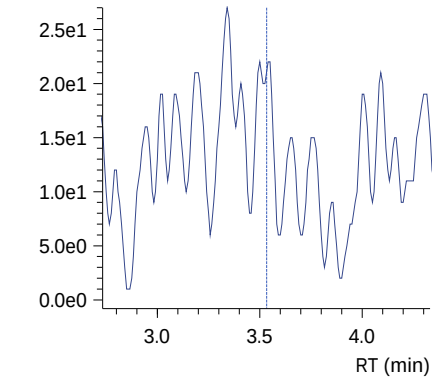
Sample ID: IB
Date Acquired: 4/19/2024 10:35:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	149340	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.558	149340	149340	1.0000	ng/mL	----	----	

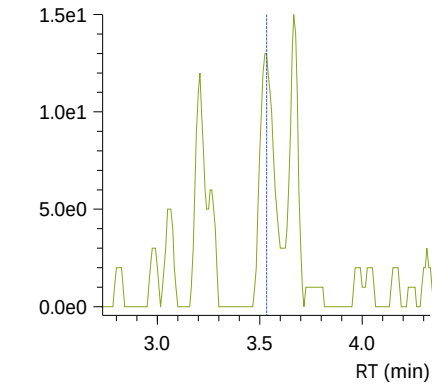
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.70e1



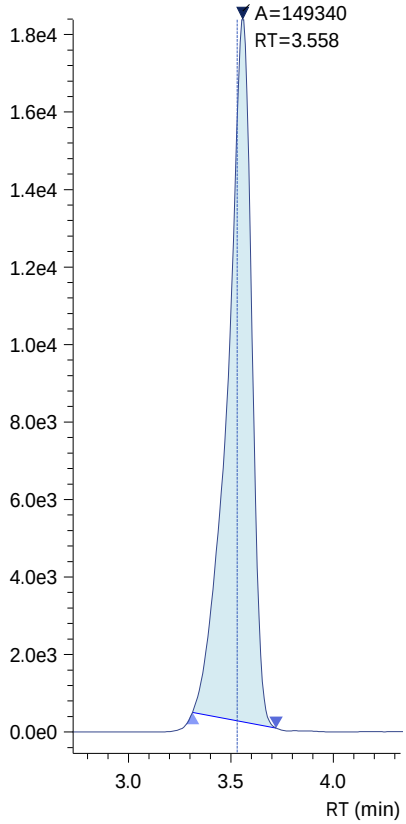
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.84e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

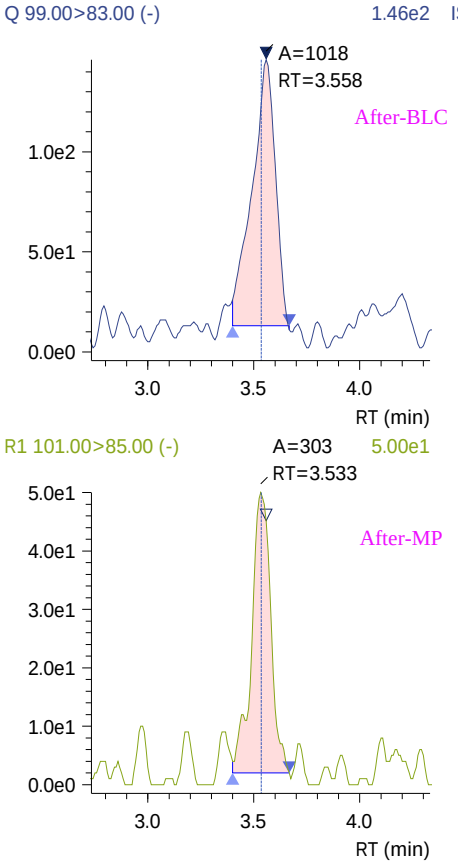
LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.558	1018	133677	0.0492	ng/mL	101.00 >85.00	29.76	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.553	133677	133677	1.0000	ng/mL	----	----	

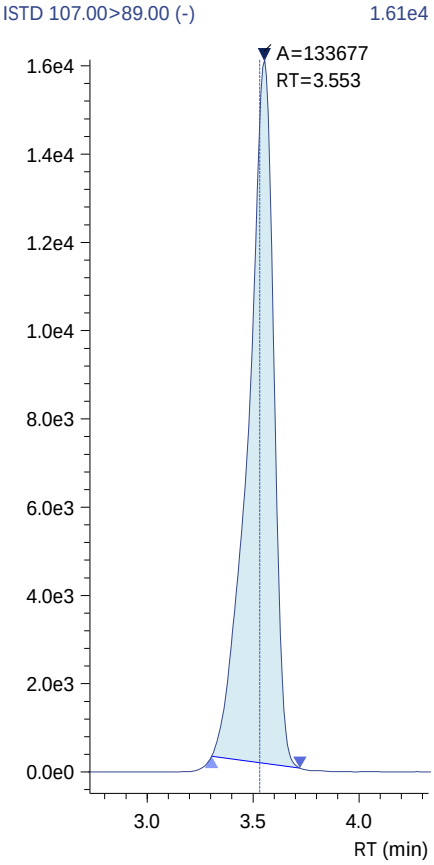
Perchlorate

Conc 0.0492
R#1 29.76 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

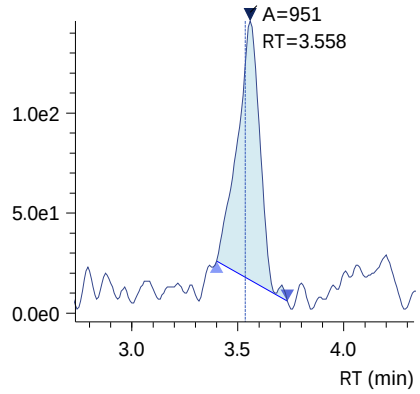
LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

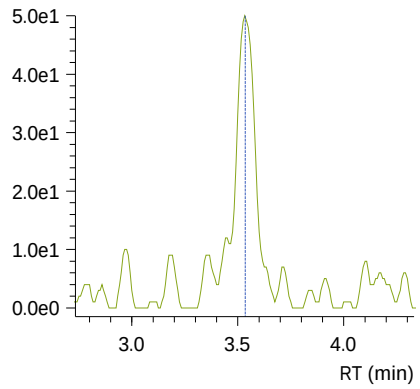
Perchlorate

Conc 0.0459
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.46e2



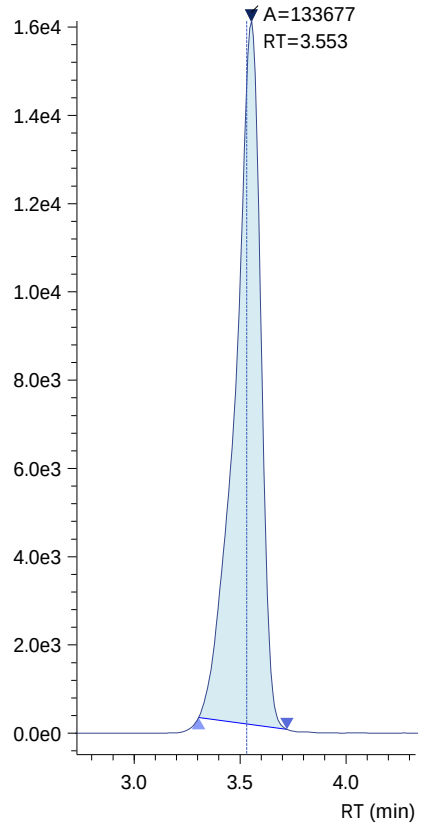
R1 101.00>85.00 (-) 5.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

ICS

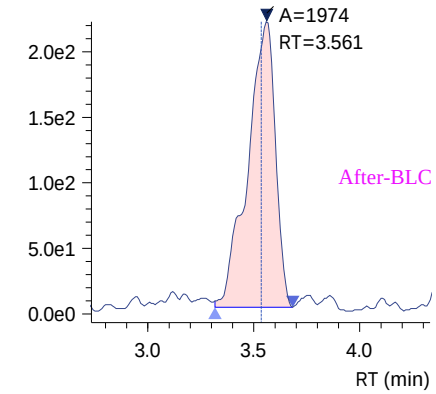
Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.561	1974	139796	0.0911	ng/mL	101.00 >85.00	31.92	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.549	139796	139796	1.0000	ng/mL	----	----	

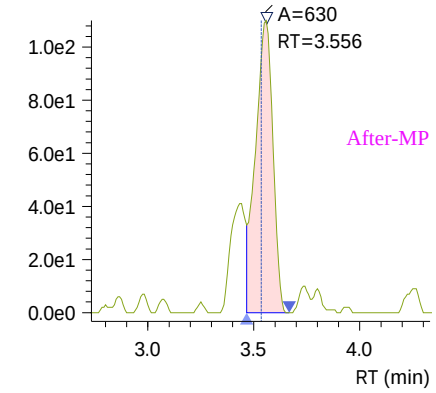
Perchlorate

Conc 0.0911
R#1 31.92 (34.10)

Q 99.00>83.00 (-) 2.23e2



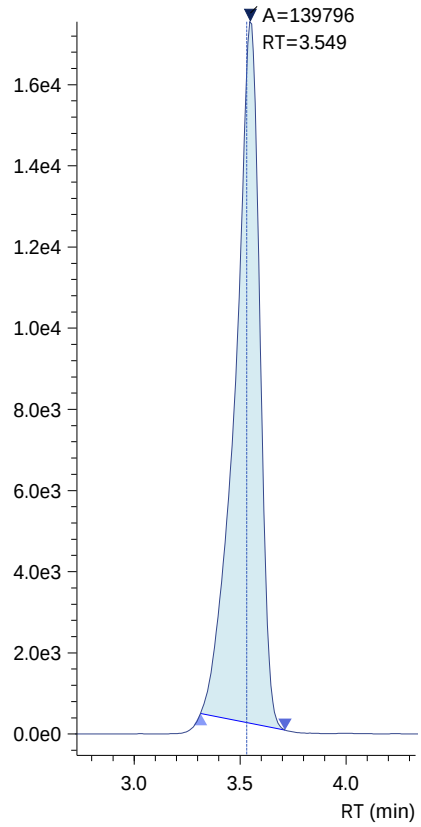
R1 101.00>85.00 (-) 1.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:11:15 PM

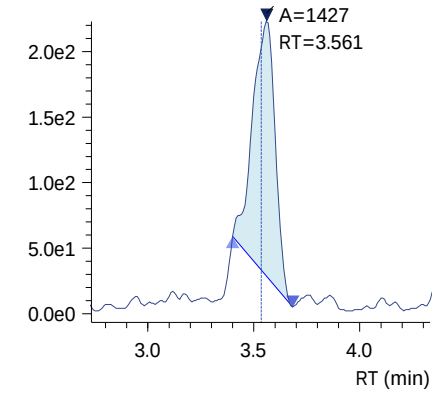
ICS

Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

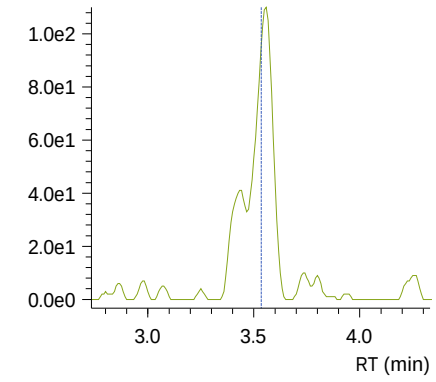
Perchlorate

Conc 0.0659
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.23e2



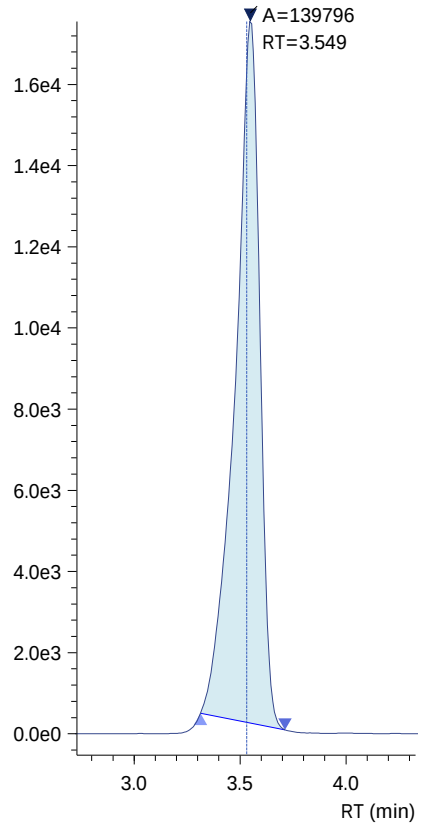
R1 101.00>85.00 (-) 1.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

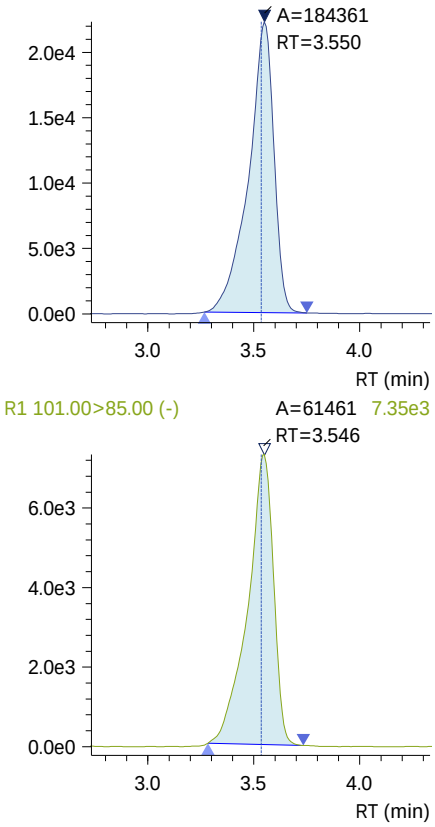
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 10:52:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.550	184361	122793	9.6904	ng/mL	101.00	33.34	26.31
							>85.00		-43.47
Sodium Perchlorate-18O4_IS	Auto	3.547	122793	122793	1.0000	ng/mL	----	----	

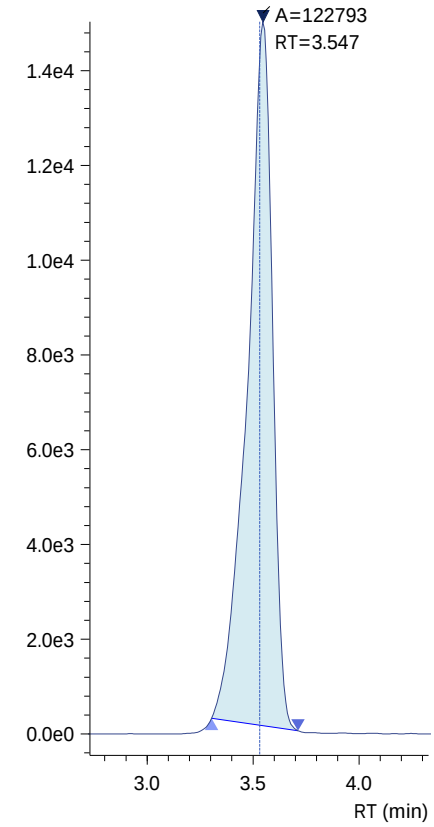
Perchlorate

Conc 9.6904
R#1 33.34 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

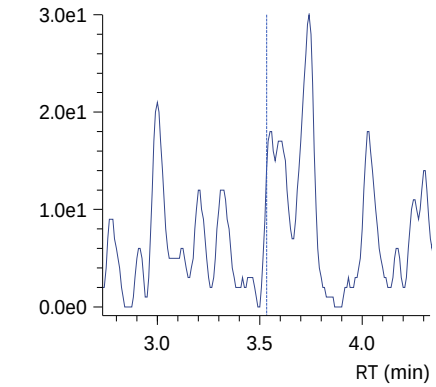
Sample ID: IB
Date Acquired: 4/19/2024 10:57:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	143773	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.546	143773	143773	1.0000	ng/mL	----	----	

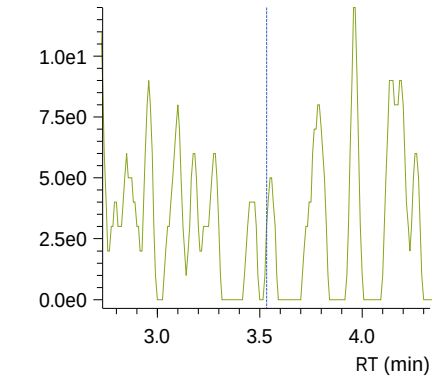
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.00e1



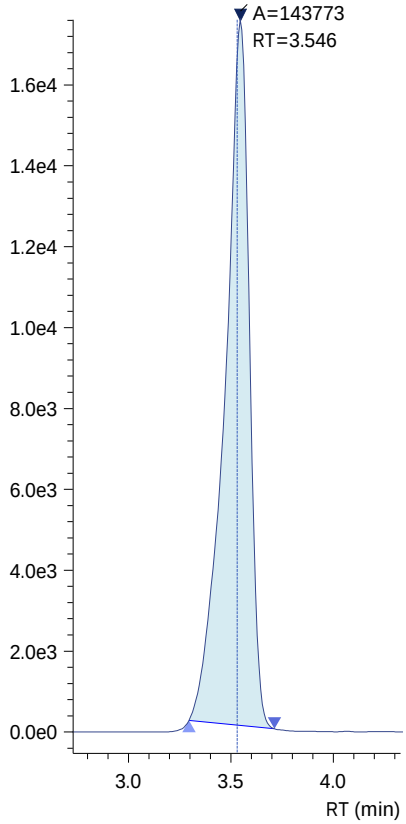
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

EQ2400188-01MB

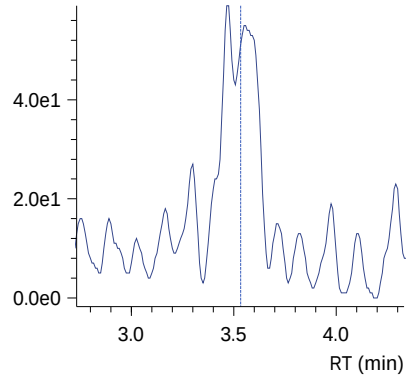
Sample ID: EQ2400188-01
Date Acquired: 4/19/2024 11:44:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-009.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	134100	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	134100	134100	1.0000	ng/mL	----	----	

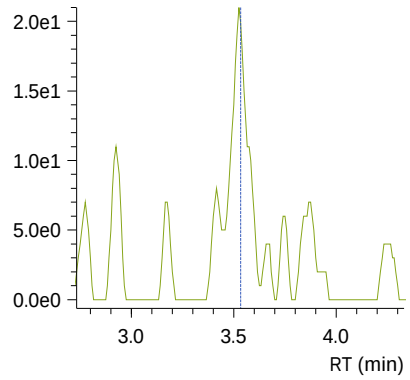
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 5.90e1



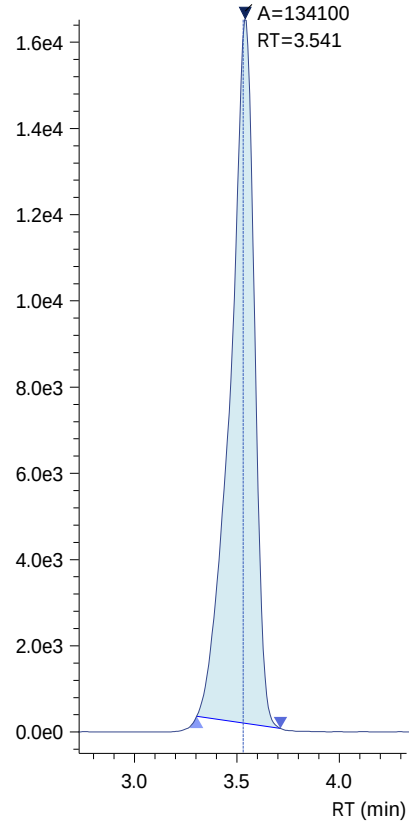
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.65e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

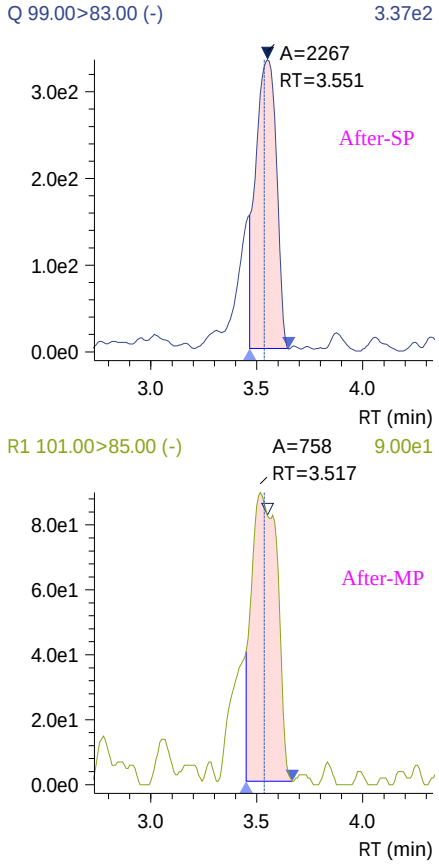
EQ2400188-02LCS

Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.551	2267	131541	0.1112	ng/mL	101.00 >85.00	33.44	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.540	1315 41	131541	1.0000	ng/mL	----	----	

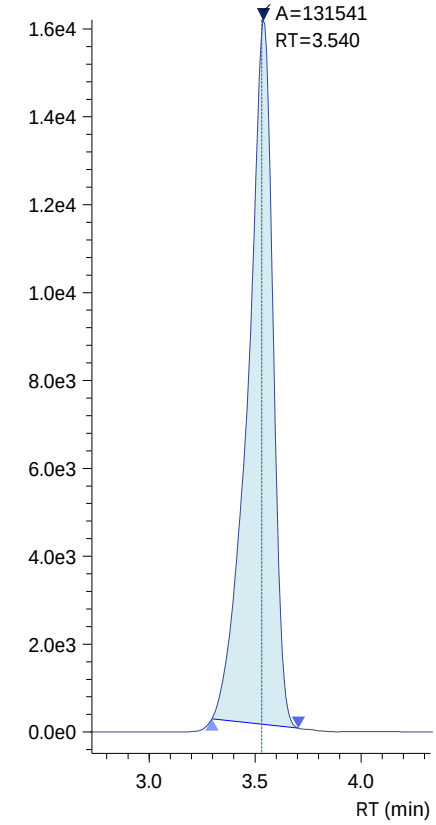
Perchlorate

Conc 0.1112
R#1 33.44 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

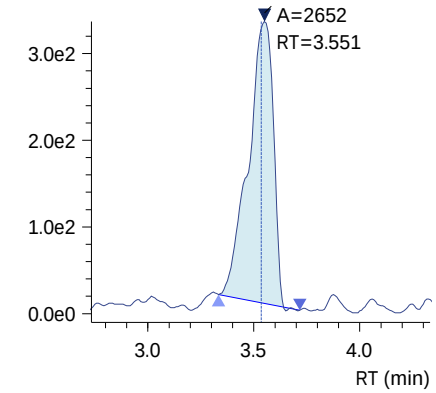
EQ2400188-02LCS

Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

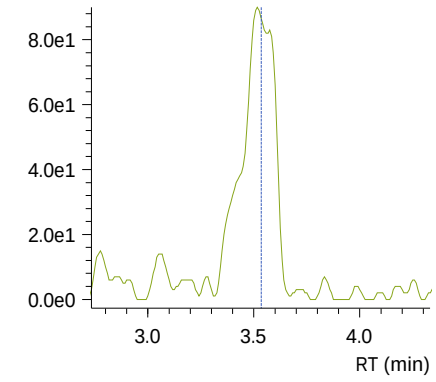
Perchlorate

Conc 0.1301
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.37e2



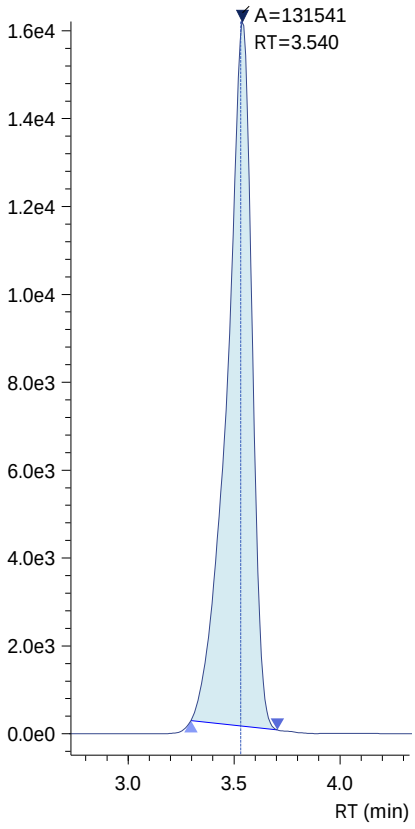
R1 101.00>85.00 (-) 9.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

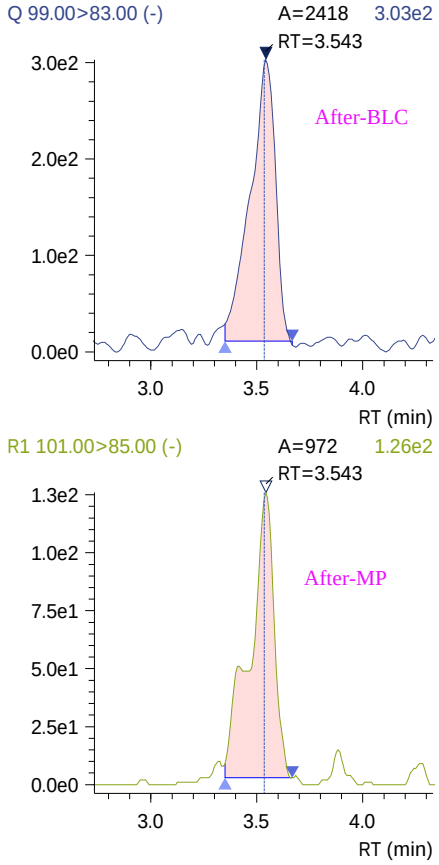
EQ2400188-03DLCS

Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.543	2418	132507	0.1178	ng/mL	101.00 >85.00	40.21	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.539	132507	132507	1.0000	ng/mL	----	----	

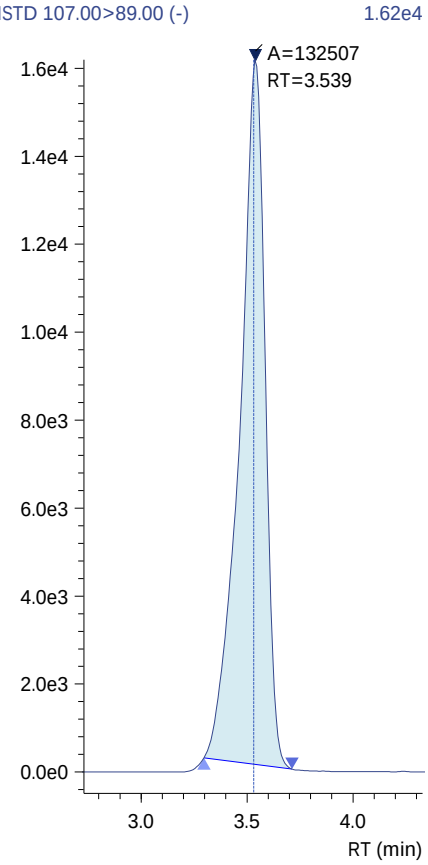
Perchlorate

Conc 0.1178
R#1 40.21 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

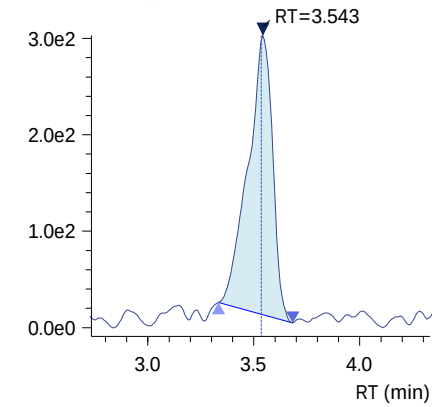
EQ2400188-03DLCS

Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

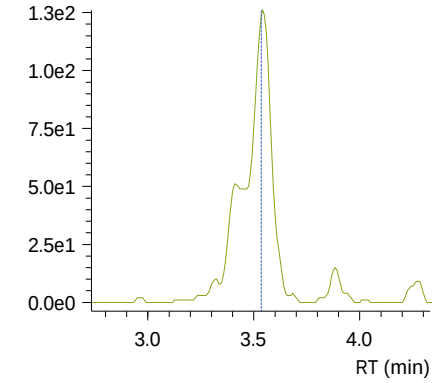
Perchlorate

Conc 0.1137
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2334 3.03e2



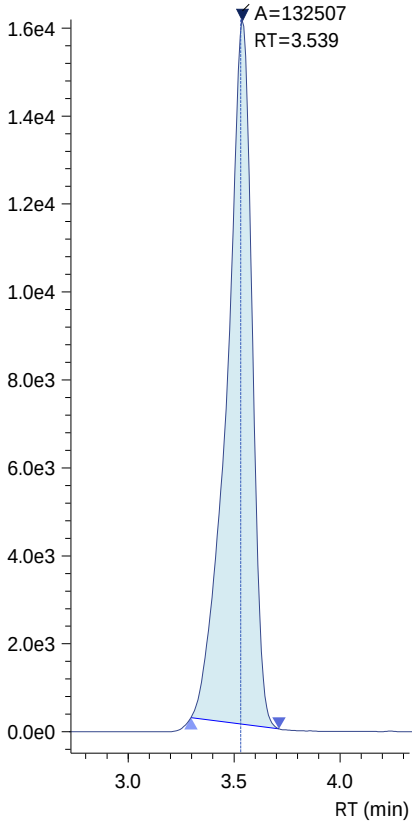
R1 101.00>85.00 (-) 1.26e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

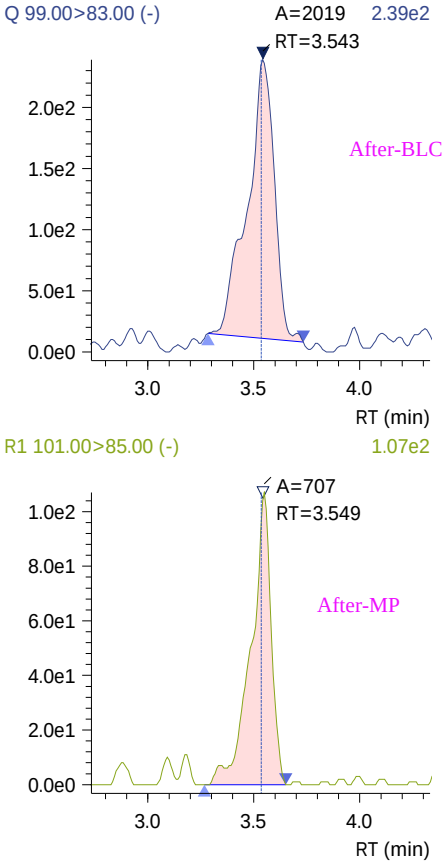
EQ2400188-04ICS

Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.543	2019	133826	0.0974	ng/mL	101.00 >85.00	35.02	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	133826	133826	1.0000	ng/mL	----	----	

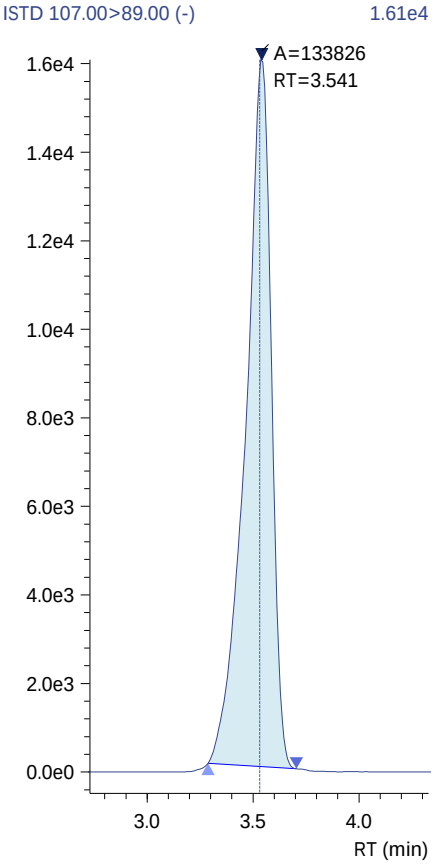
Perchlorate

Conc 0.0974
R#1 35.02 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

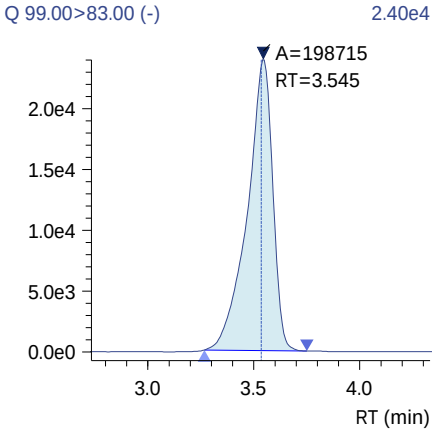
CCV

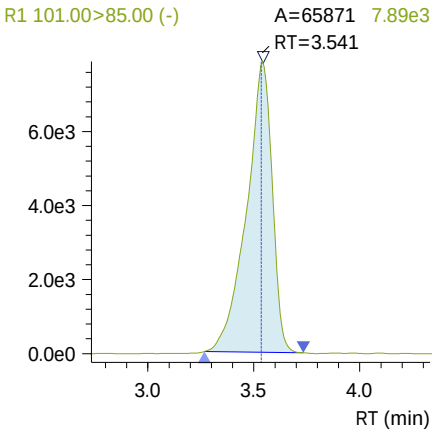
Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.545	198715	126867	10.1095	ng/mL	101.00 >85.00	33.15	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.541	126867	126867	1.0000	ng/mL	----	----	

Perchlorate

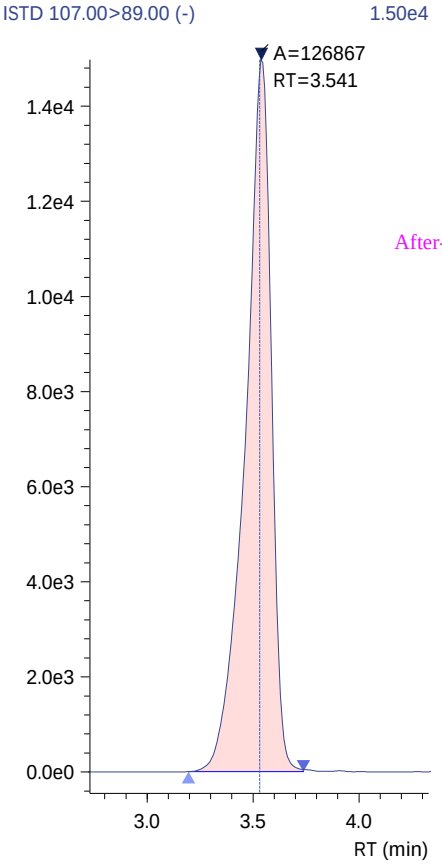
Conc 10.1095
R#1 33.15 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 4/19/2024 2:11:15 PM

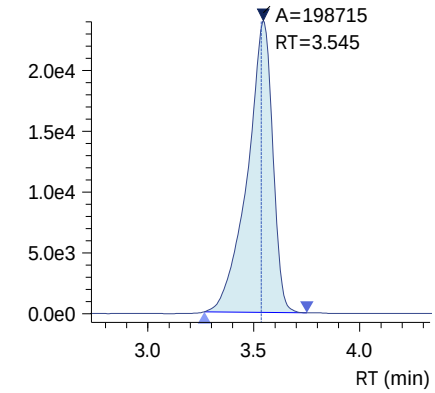
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

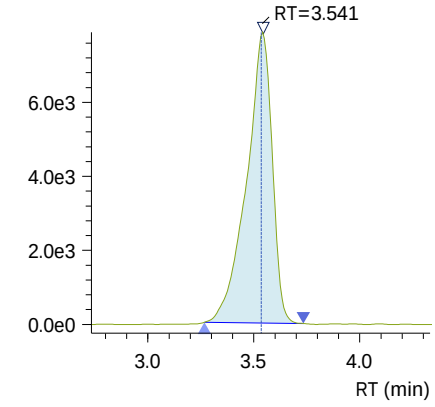
Perchlorate

Conc 10.3881
R#1 33.15 (34.10)

Q 99.00>83.00 (-) 2.40e4



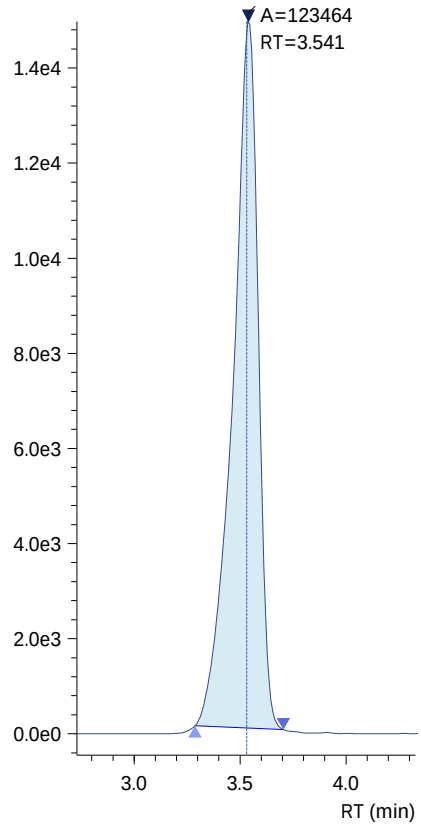
R1 101.00>85.00 (-) A=65871 7.89e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

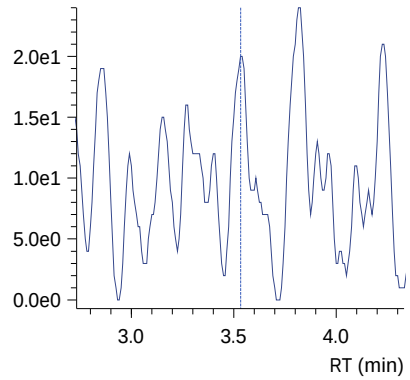
Sample ID: IB
Date Acquired: 4/19/2024 12:53:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	144538	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.540	144538	144538	1.0000	ng/mL	----	----	

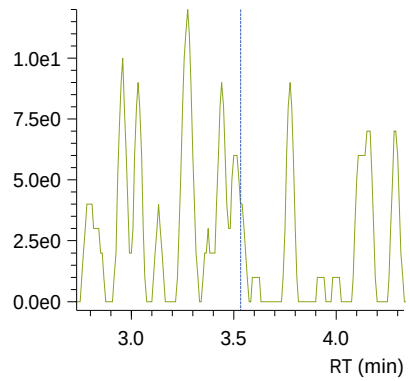
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



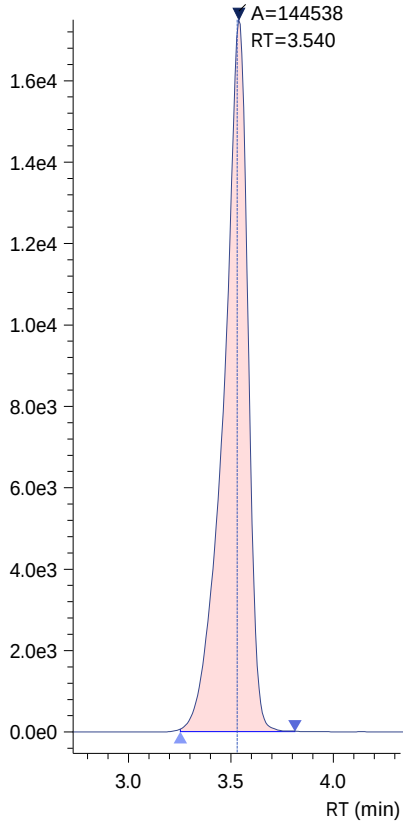
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.75e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

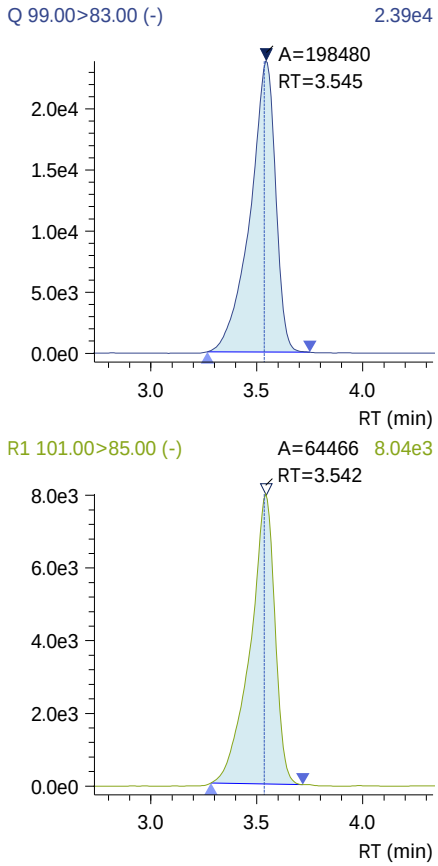
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 2:31:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.545	198480	122485	10.4586	ng/mL	101.00 >85.00	32.48	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.541	122485	122485	1.0000	ng/mL	----	----	

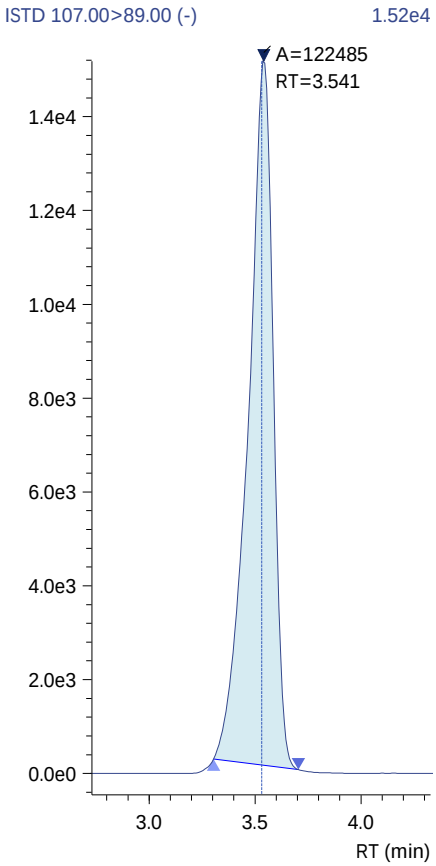
Perchlorate

Conc 10.4586
R#1 32.48 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/24/2024 10:00:22 AM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

IB

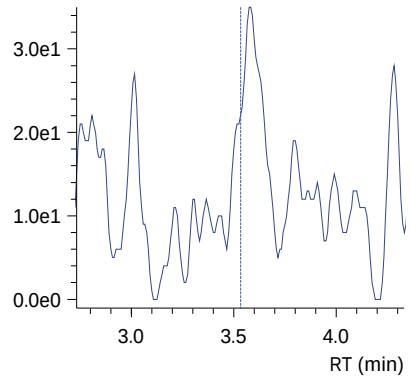
Sample ID: IB
Date Acquired: 4/19/2024 2:37:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	137854	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.540	137854	137854	1.0000	ng/mL	----	----	

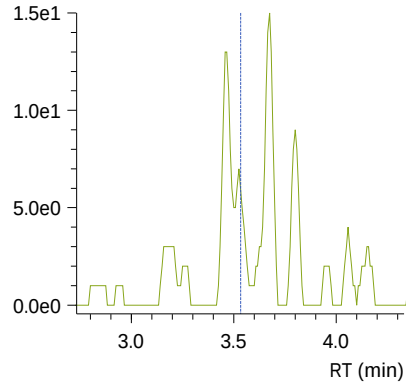
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.50e1



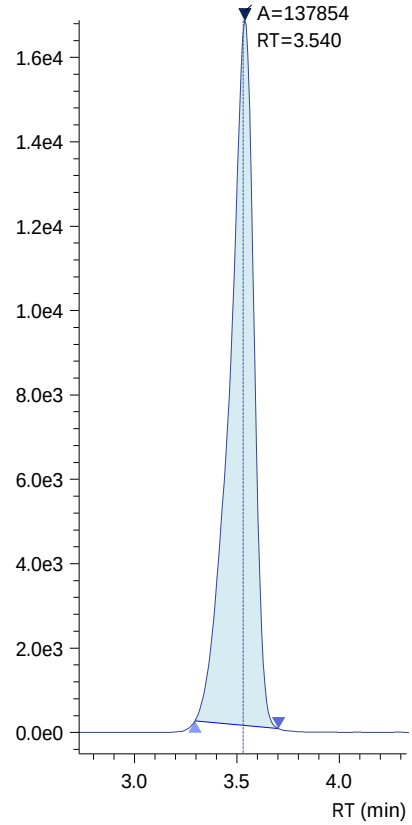
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.69e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

E2400363-001

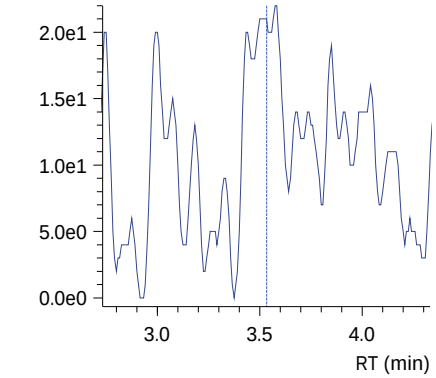
Sample ID: E2400363-001
Date Acquired: 4/19/2024 2:48:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-032.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	131796	----	ng/mL	101.00 >85.00	0.00	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.538	131796	131796	1.0000	ng/mL	----	----	

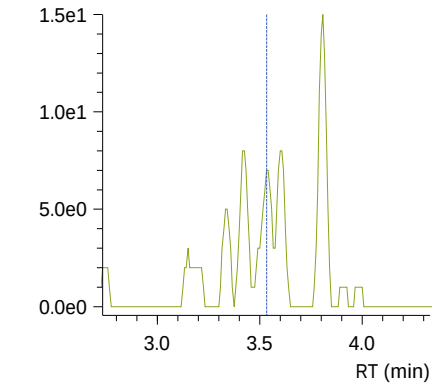
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.20e1



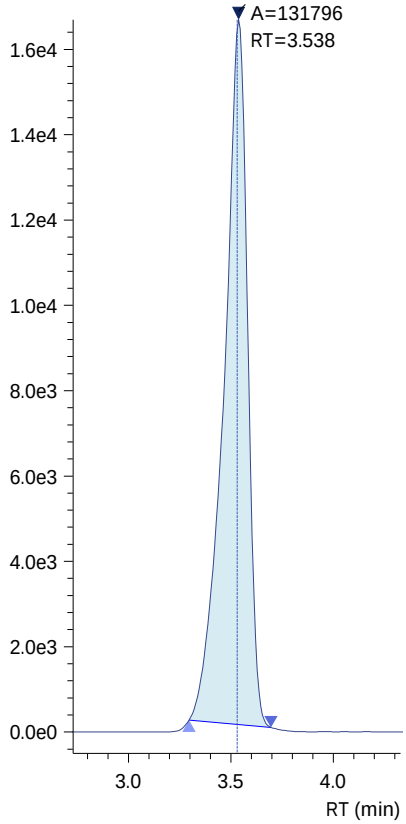
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.67e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

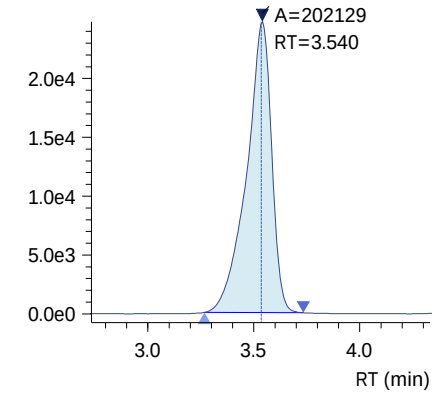
CCV

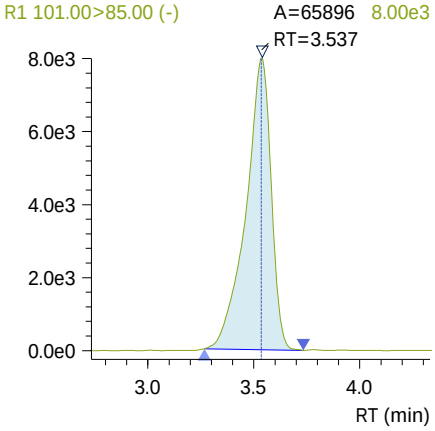
Sample ID: CCV
Date Acquired: 4/19/2024 3:38:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.540	2021	124265	10.4	ng/mL	101.00	32.60	23.32
			29		984		>85.00		-42.56
Sodium Perchlorate-18O4_IS	Auto	3.534	1242 65	124265	1.0000	ng/mL	----	----	

Perchlorate

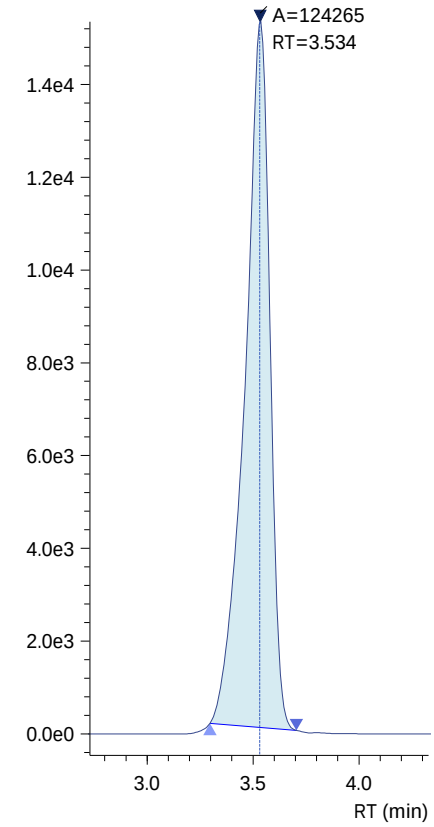
Conc 10.4984
R#1 32.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/24/2024 10:00:22 AM

IB

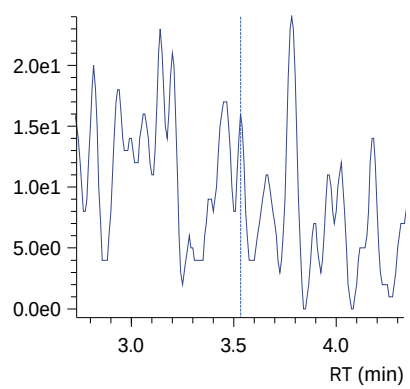
Sample ID: IB
Date Acquired: 4/19/2024 3:43:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	141047	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.535	141047	141047	1.0000	ng/mL	----	----	

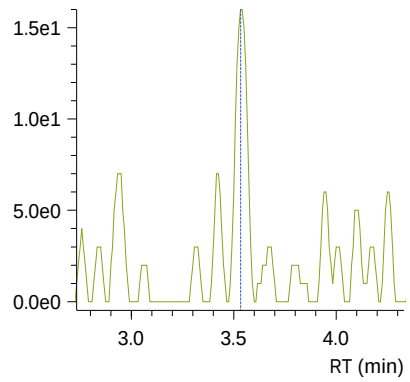
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



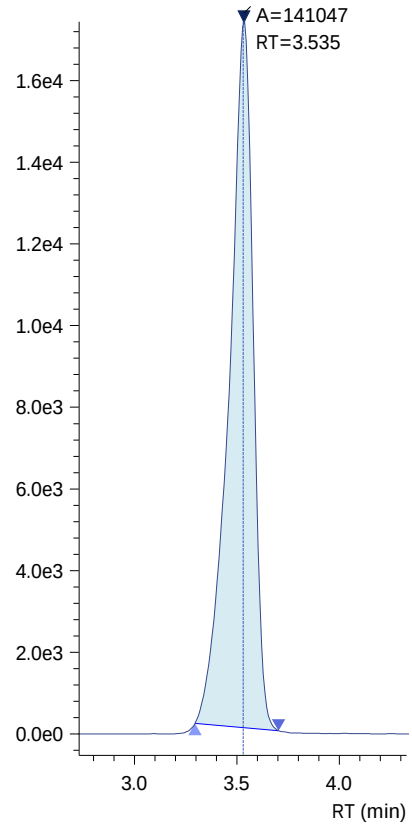
R1 101.00>85.00 (-) 1.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.74e4



HS24040786 - ME - ICP_W_DOD

ALS WO# HS24040786

ALS Houston, US Date: 22-May-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24040786
Start Date: 17-Apr-2024 End Date: 17-Apr-2024

Run ID:ICPMS07_464270
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_464270_Tune	1	17-Apr-2024 00:00	ICPMS07_464270_Tune_1	
CAL BLK	1	17-Apr-2024 10:06	012CALB.d_7952683	AG BA PB SE
2/10/200	1	17-Apr-2024 10:08	013CALS.d_7952684	AG BA PB SE
5/25/500	1	17-Apr-2024 10:11	014CALS.d_7952685	AG BA PB SE
10/50/100	1	17-Apr-2024 10:13	015CALS.d_7952686	AG BA PB SE
100/500/10K	1	17-Apr-2024 10:15	016CALS.d_7952687	AG BA PB SE
200/1000/20K	1	17-Apr-2024 10:17	017CALS.d_7952688	AG BA PB SE
ICV	1	17-Apr-2024 10:24	019CALS.d_7952690	AG BA PB SE
LLICV2	1	17-Apr-2024 10:31	022LCV2.d_7952693	AG BA PB SE
LLICV5	1	17-Apr-2024 10:34	023LCV5.d_7952694	AG BA PB SE
ICB	1	17-Apr-2024 10:38	025_ICB.d_7952696	AG BA PB SE
ICSA	1	17-Apr-2024 10:41	026ICSA.d_7952697	AG BA PB SE
ICSAB	1	17-Apr-2024 10:43	027ICSB.d_7952698	AG BA PB SE
CAL BLK	1	17-Apr-2024 17:58	199CALB.d_7954295	AG BA PB SE
2/10/200	1	17-Apr-2024 18:00	200CALS.d_7954296	AG BA PB SE
5/25/500	1	17-Apr-2024 18:02	201CALS.d_7954297	AG BA PB SE
10/50/100	1	17-Apr-2024 18:05	202CALS.d_7954298	AG BA PB SE
100/500/10K	1	17-Apr-2024 18:07	203CALS.d_7954299	AG BA PB SE
200/1000/20K	1	17-Apr-2024 18:09	204CALS.d_7954300	AG BA PB SE
CCB 1	1	17-Apr-2024 18:20	207_CCB.d_7954303	AG BA PB SE
LLCCV5	1	17-Apr-2024 18:23	208LCV5.d_7954304	AG BA PB SE
LLCCV2	1	17-Apr-2024 18:25	209LCV2.d_7954305	AG BA PB SE
ICCB 2	1	17-Apr-2024 18:27	210_ICB.d_7954306	AG BA PB SE
ICV	1	17-Apr-2024 18:30	211_CCV.d_7954307	AG BA PB SE
CCV 1	1	17-Apr-2024 18:34	213_CCV.d_7954343	AG BA PB SE
CCB 3	1	17-Apr-2024 18:37	214_CCB.d_7954344	AG BA PB SE
LCS-210597	1	17-Apr-2024 18:41	216SMPL.d_7954346	AG PB SE
ZZZZZZSD	5	17-Apr-2024 18:46	218SMPL.d_7954348	AG BA PB SE
ZZZZZZMS	1	17-Apr-2024 18:48	219SMPL.d_7954349	AG BA PB SE
ZZZZZZPDS	1	17-Apr-2024 18:53	221SMPL.d_7954351	AG BA PB SE
CCV 2	1	17-Apr-2024 19:02	225_CCV.d_7954358	AG BA PB SE
CCB 4	1	17-Apr-2024 19:05	226_CCB.d_7954359	AG BA PB SE
LCS-210597	1	17-Apr-2024 19:07	227SMPL.d_7954360	BA
ZZZZZZSD	100	17-Apr-2024 19:12	229SMPL.d_7954362	
ZZZZZZPDS	20	17-Apr-2024 19:14	230SMPL.d_7954363	
ZZZZZZMSD	1	17-Apr-2024 19:16	231SMPL.d_7954364	AG BA PB SE
LH18/24-SP650_041024	1	17-Apr-2024 19:21	233SMPL.d_7954366	AG BA PB SE
CCV 3	1	17-Apr-2024 19:34	237_CCV.d_7954375	AG BA PB SE
CCB 5	1	17-Apr-2024 19:36	238_CCB.d_7954376	AG BA PB SE
CCV 4	1	17-Apr-2024 19:58	247_CCV.d_7954385	AG BA PB SE
CCB 6	1	17-Apr-2024 20:00	248_CCB.d_7954386	AG BA PB SE

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_464270

Project: Longhorn GW Treatment Plant Monthly Effluent Samples Instrument: ICPMS07

WorkOrder: HS24040786 Method: SW6020A

ICV	Date: 17-Apr-2024 10:24		Seq: 7952690	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	92.243	92	90-110	
Lead	100	98.92	99	90-110	
Selenium	100	96.3	96	90-110	
Silver	100	102.728	103	90-110	

ICV	Date: 17-Apr-2024 18:30		Seq: 7954307	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	95.396	95	90-110	
Lead	100	102.392	102	90-110	
Selenium	100	101.514	102	90-110	
Silver	100	102.962	103	90-110	

CCV1	Date: 17-Apr-2024 18:34		Seq: 7954343	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	95.671	96	90-110	
Lead	100	102.644	103	90-110	
Selenium	100	102.162	102	90-110	
Silver	100	104.328	104	90-110	

CCV2	Date: 17-Apr-2024 19:02		Seq: 7954358	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	94.022	94	90-110	
Lead	100	103.443	103	90-110	
Selenium	100	99.907	100	90-110	
Silver	100	102.087	102	90-110	

CCV3	Date: 17-Apr-2024 19:34		Seq: 7954375	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	95.402	95	90-110	
Lead	100	103.481	103	90-110	
Selenium	100	102.386	102	90-110	
Silver	100	103.419	103	90-110	

CCV4	Date: 17-Apr-2024 19:58		Seq: 7954385	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Barium	100	94.624	95	90-110	
Lead	100	102.702	103	90-110	
Selenium	100	96.155	96	90-110	
Silver	100	102.711	103	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24040786

Run ID: ICPMS07_464270
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 17-Apr-2024 10:38		Seq: 7952696	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	5	1.9	5	U	
Lead	5	0.6	5	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	

CCB1	Date: 17-Apr-2024 18:20		Seq: 7954303	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	5	1.9	5	U	
Lead	5	0.6	5	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	

ICCB2	Date: 17-Apr-2024 18:27		Seq: 7954306	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	5	1.9	5	U	
Lead	5	0.6	5	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	

CCB3	Date: 17-Apr-2024 18:37		Seq: 7954344	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	4	1.9	4	U	
Lead	2	0.6	2	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

CCB4	Date: 17-Apr-2024 19:05		Seq: 7954359	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	4	1.9	4	U	
Lead	2	0.6	2	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

CCB5	Date: 17-Apr-2024 19:36		Seq: 7954376	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	4	1.9	4	U	
Lead	2	0.6	2	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

CCB6	Date: 17-Apr-2024 20:00		Seq: 7954386	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Barium	4	1.9	4	U	
Lead	2	0.6	2	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	

ALS Houston, US Date: 22-May-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID: ICPMS07_464270

Project: Longhorn GW Treatment Plant Monthly Effluent Samples Instrument: ICPMS07

WorkOrder: HS24040786 Method: SW6020A

ICSA	Date: 17-Apr-2024 10:41	Seq: 7952697	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Barium		0.859	0	
Lead		0.06	0	
Selenium		0.18	0	
Silver		0.382	0	

ICSAB	Date: 17-Apr-2024 10:43	Seq: 7952698	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Barium	100	92.9	92.9	
Lead	100	95.47	95.5	
Selenium	100	102.3	102	
Silver	100	98.35	98.4	

ALS Houston, US Date: 22-May-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24040786

Date Analyzed: 17-Apr-2024 19:16
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Matrix Spike: HS24040355-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Barium	43.24	86.50	50.00	86.5	86.09	50.00	85.7	86-114	0.473	20
Lead	5.000	45.38	50.00	90.6	44.61	50.00	89.1	88-115	1.71	20
Selenium	6.221	50.28	50.00	88.1	49.86	50.00	87.3	80-120	0.835	20
Silver	5.000	44.80	50.00	89.6	42.17	50.00	84.3	85-116	6.05	20

ALS Houston, US Date: 22-May-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24040786

Date Analyzed: 17-Apr-2024 18:53
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Lab Sample ID: HS24040355-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Barium	43.24	134.8	100	92	80-120
Lead	0	96.96	100	97	80-120
Selenium	6.221	97.89	100	92	80-120
Silver	0	92.98	100	93	80-120

ALS Houston, US

Date: 22-May-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24040786

Date Analyzed: 17-Apr-2024 18:41
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Lab Sample ID: LCS-210597
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Lead	50	44.44	89	88-115
Selenium	50	44.98	90	80-120
Silver	50	45.19	90	85-116
Barium	50	48.33	97	86-114

ALS Houston, US

Date: 22-May-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
WorkOrder: HS24040786

Date Analyzed: 17-Apr-2024 18:46
Date Extracted: 17-Apr-2024 08:00
Units: ug/L

Lab Sample ID: HS24040355-01SD
Client Sample ID:

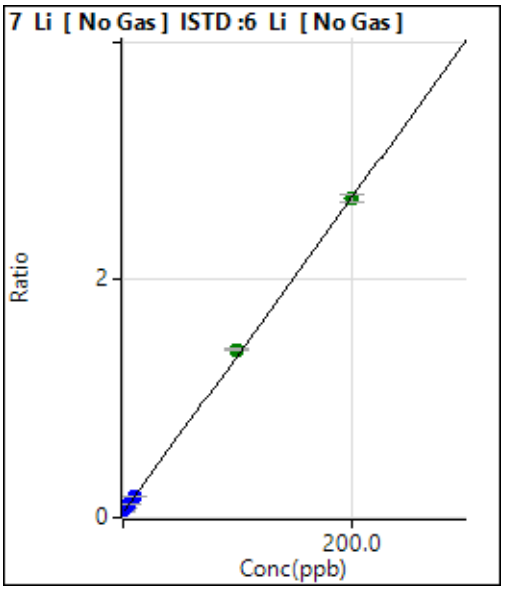
Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Barium	43.24		43.22		0	
Lead	0	U	0	U	0	
Selenium	6.221		6.618	J	6	
Silver	0	U	0	U	0	

Calibration for 206_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\041724A.b\
Analysis File: 041724A.batch.bin
DA Date-Time: 4/17/2024 6:33:14 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

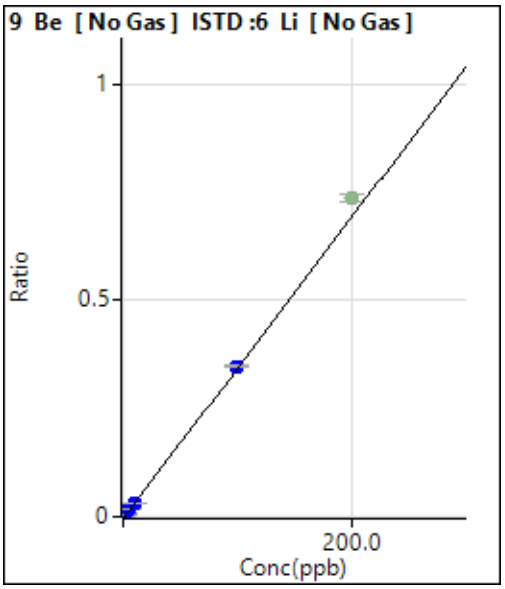
Level	Standard Data File	Sample Name	Acq. Date-Time
1	199CALB.d	CAL BLK	4/17/2024 5:58:03 PM
2	200CALS.d	2/10/200	4/17/2024 6:00:22 PM
3	201CALS.d	5/25/500	4/17/2024 6:02:41 PM
4	202CALS.d	10/50/100	4/17/2024 6:05:00 PM
5	203CALS.d	100/500/10K	4/17/2024 6:07:18 PM
6	204CALS.d	200/1000/20K	4/17/2024 6:09:28 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	92515.08	0.0569	P	0.8	
2	☐	2.000	1.875	131321.38	0.0817	P	1.8	-6.3
3	☐	5.000	4.652	189802.70	0.1184	P	0.7	-7.0
4	☐	10.000	9.094	291183.60	0.1772	P	2.7	-9.1
5	☐	100.000	102.680	2197255.96	1.4160	A	1.0	2.7
6	☐	200.000	198.715	4070299.84	2.6873	A	2.8	-0.6

y = 0.0132 * x + 0.0569
R = 0.9999
DL = 0.1018 ppb
BEC = 4.296 ppb

Weight: <None>
Min Conc: <None>

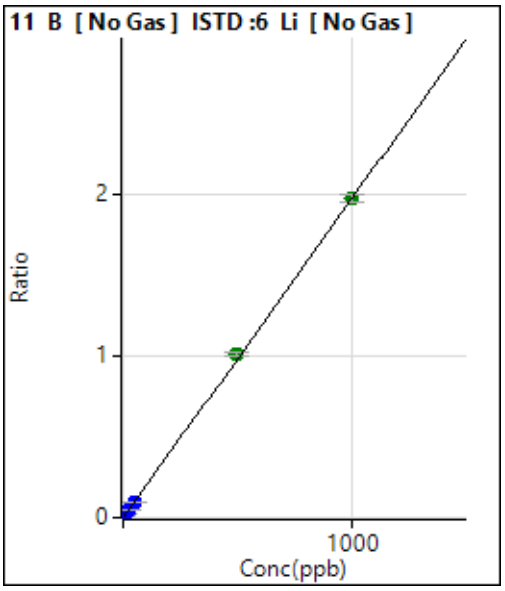


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	81.67	0.0001	P	4.0	
2	☐	2.000	1.894	10672.47	0.0066	P	1.6	-5.3
3	☐	5.000	4.640	25947.38	0.0162	P	2.1	-7.2
4	☐	10.000	9.326	53374.24	0.0325	P	3.9	-6.7
5	☐	100.000	100.088	540248.81	0.3482	P	1.1	0.1
6	☑	200.000		1115829.65	0.7367	A	2.6	

y = 0.0035 * x + 5.0205E-005
R = 1.0000
DL = 0.001711 ppb
BEC = 0.01443 ppb

Weight: <None>
Min Conc: <None>

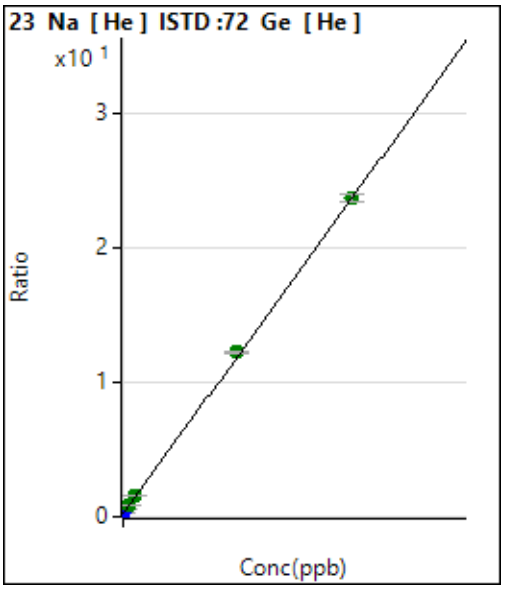
Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13941.98	0.0086	P	1.7	
2	☐	10.000	8.689	41377.56	0.0257	P	2.6	-13.1
3	☐	25.000	22.080	83644.27	0.0522	P	1.0	-11.7
4	☐	50.000	44.306	157917.30	0.0961	P	2.5	-11.4
5	☐	500.000	506.719	1566851.90	1.0099	A	2.5	1.3
6	☐	1000.000	997.012	2997312.56	1.9789	A	2.6	-0.3

y = 0.0020 * x + 0.0086
R = 0.9999
DL = 0.217 ppb
BEC = 4.336 ppb

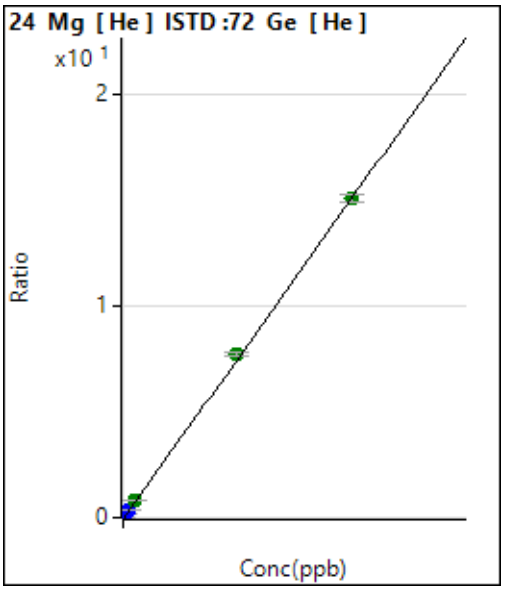
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	454082.35	0.3335	P	1.4	
2	☐	200.000	163.455	722157.10	0.5252	P	2.9	-18.3
3	☐	500.000	483.797	1244872.01	0.9008	A	0.8	-3.2
4	☐	1000.000	1010.102	2077061.90	1.5179	A	1.9	1.0
5	☐	10000.00	10135.03	16589723.92	12.2173	A	1.7	1.4
6	☐	20000.00	19932.75	32132985.35	23.7056	A	2.8	-0.3

y = 0.0012 * x + 0.3335
R = 1.0000
DL = 11.95 ppb
BEC = 284.5 ppb

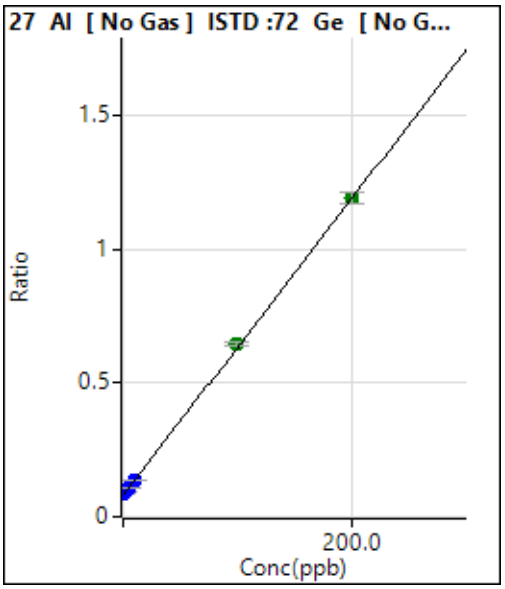
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2316.90	0.0017	P	2.7	
2	☐	200.000	181.691	191652.58	0.1394	P	3.9	-9.2
3	☐	500.000	443.720	467028.08	0.3380	P	1.2	-11.3
4	☐	1000.000	1048.134	1089253.00	0.7960	A	2.1	4.8
5	☐	10000.00	10190.03	10487450.47	7.7243	A	1.7	1.9
6	☐	20000.00	19904.16	20449105.11	15.0863	A	2.9	-0.5

y = 7.5786E-004 * x + 0.0017
R = 0.9999
DL = 0.1816 ppb
BEC = 2.246 ppb

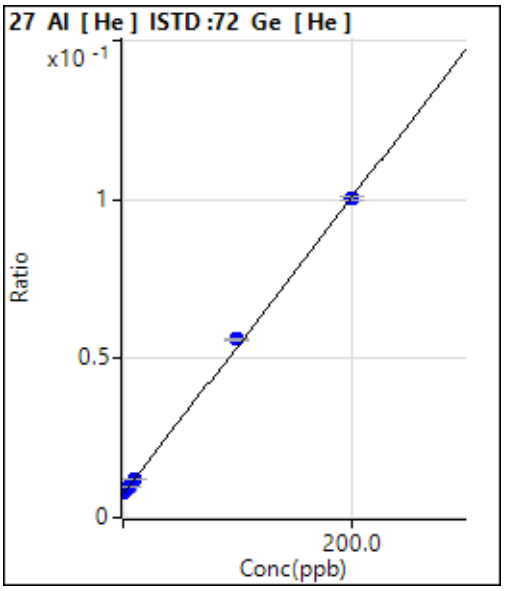
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	364554.23	0.0859	P	2.1	
2	☐	2.000	0.957	386618.24	0.0912	P	0.5	-52.2
3	☐	5.000	4.119	461554.05	0.1087	P	1.8	-17.6
4	☐	10.000	8.585	568906.67	0.1335	P	0.9	-14.2
5	☐	100.000	101.410	2752325.69	0.6484	A	1.9	1.4
6	☐	200.000	199.398	4928114.10	1.1920	A	3.7	-0.3

y = 0.0055 * x + 0.0859
R = 0.9999
DL = 0.9799 ppb
BEC = 15.48 ppb

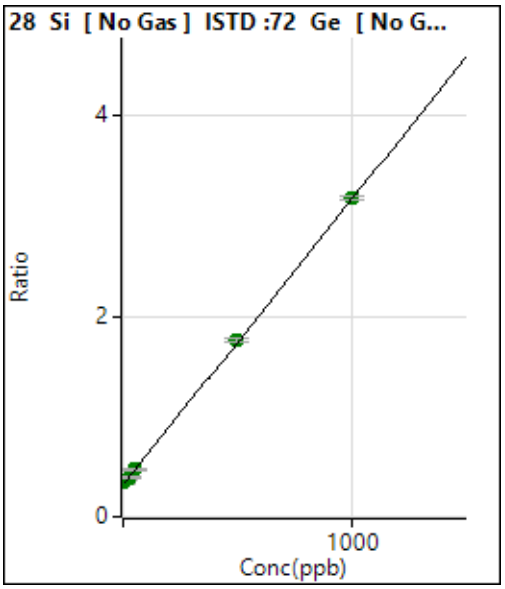
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10757.69	0.0079	P	2.9	
2	☐	2.000	1.566	11865.28	0.0086	P	4.2	-21.7
3	☐	5.000	4.023	13510.14	0.0098	P	1.1	-19.5
4	☐	10.000	8.934	16513.45	0.0121	P	3.3	-10.7
5	☐	100.000	103.126	76031.17	0.0560	P	1.5	3.1
6	☐	200.000	198.519	136251.04	0.1005	P	1.4	-0.7

y = 4.6640E-004 * x + 0.0079
R = 0.9998
DL = 1.449 ppb
BEC = 16.94 ppb

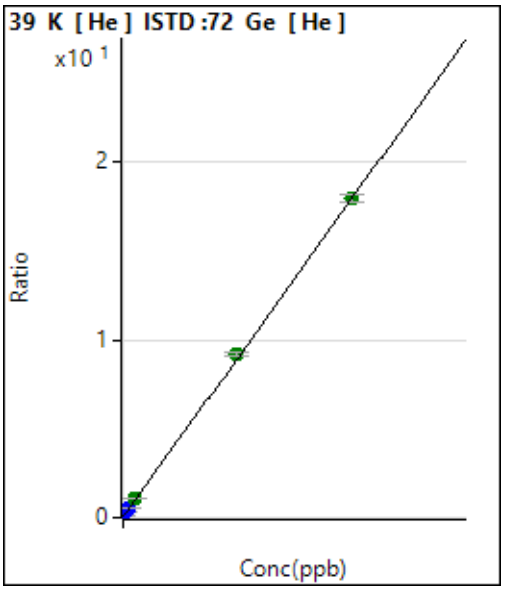
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1432780.71	0.3375	A	2.0	
2	☐	10.000	7.399	1520286.80	0.3585	A	0.2	-26.0
3	☐	25.000	19.566	1669197.42	0.3932	A	0.7	-21.7
4	☐	50.000	47.686	2016618.09	0.4732	A	2.0	-4.6
5	☐	500.000	500.306	7476286.14	1.7616	A	2.1	0.1
6	☐	1000.000	1000.124	13169606.47	3.1844	A	1.6	0.0

y = 0.0028 * x + 0.3375
R = 1.0000
DL = 7.15 ppb
BEC = 118.6 ppb

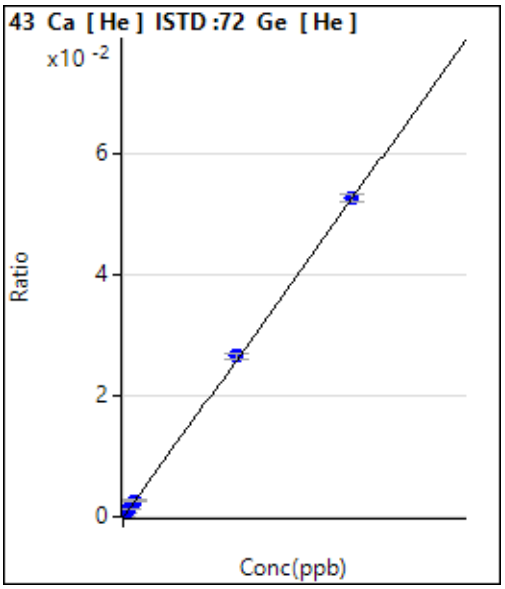
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	171326.57	0.1258	P	0.2	
2	☐	200.000	180.657	395313.04	0.2875	P	3.4	-9.7
3	☐	500.000	454.465	735852.31	0.5326	P	1.8	-9.1
4	☐	1000.000	1057.571	1467223.47	1.0723	A	3.0	5.8
5	☐	10000.00	10142.85	12494337.73	9.2029	A	2.6	1.4
6	☐	20000.00	19927.02	2434526547	17.9589	A	2.7	-0.4

y = 8.9492E-004 * x + 0.1258
R = 1.0000
DL = 0.979 ppb
BEC = 140.6 ppb

Weight: <None>
Min Conc: <None>

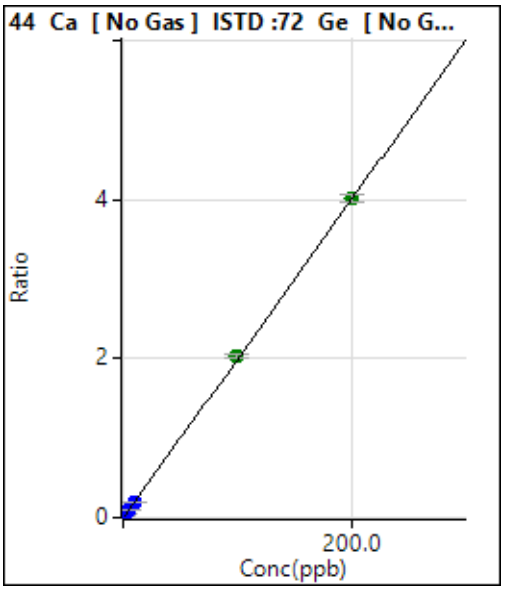


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.33	0.0001	P	29.4	
2	☐	200.000	160.377	726.70	0.0005	P	5.0	-19.8
3	☐	500.000	451.115	1786.82	0.0013	P	14.7	-9.8
4	☐	1000.000	973.242	3653.88	0.0027	P	5.8	-2.7
5	☐	10000.00	10057.31	36121.08	0.0266	P	3.3	0.6
6	☐	20000.00	19974.30	71495.51	0.0527	P	2.8	-0.1

y = 2.6349E-006 * x + 1.0550E-004
R = 1.0000
DL = 35.29 ppb
BEC = 40.04 ppb

Weight: <None>
Min Conc: <None>

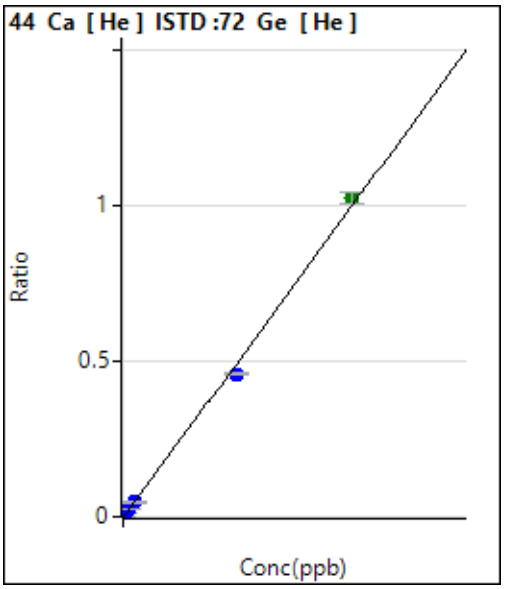
Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56432.25	0.0133	P	1.7	
2	☐	2.000	1.770	206875.64	0.0488	P	0.8	-11.5
3	☐	5.000	4.492	438814.19	0.1034	P	1.3	-10.2
4	☐	10.000	9.112	835150.46	0.1960	P	2.3	-8.9
5	☐	100.000	100.828	8635613.62	2.0349	A	1.4	0.8
6	☐	200.000	199.646	16608131.42	4.0161	A	2.7	-0.2

y = 0.0200 * x + 0.0133
R = 1.0000
DL = 0.03362 ppb
BEC = 0.6629 ppb

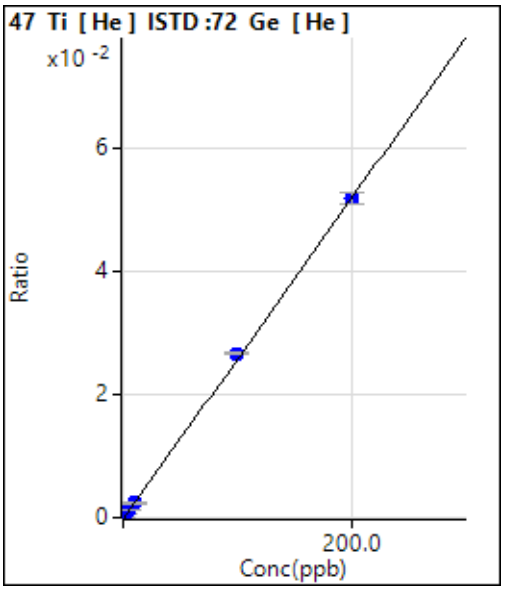
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2486.94	0.0018	P	1.1	
2	☐	200.000	167.265	14000.68	0.0102	P	7.7	-16.4
3	☐	500.000	427.640	32064.40	0.0232	P	2.3	-14.5
4	☐	1000.000	892.587	63560.24	0.0464	P	1.3	-10.7
5	☐	10000.00	9149.318	623473.69	0.4592	P	2.4	-8.5
6	☐	20000.00	20432.84	1387023.42	1.0233	A	3.1	2.2

y = 4.9992E-005 * x + 0.0018
R = 0.9988
DL = 1.198 ppb
BEC = 36.54 ppb

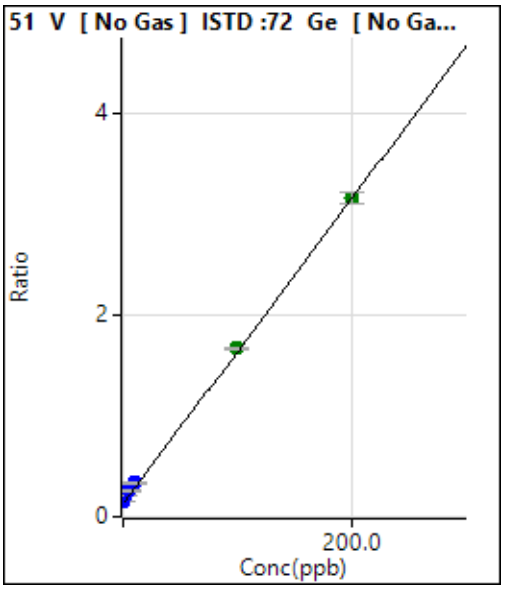
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	133.	
2	☐	2.000	1.970	726.70	0.0005	P	13.2	-1.5
3	☐	5.000	4.821	1760.15	0.0013	P	5.3	-3.6
4	☐	10.000	9.014	3240.43	0.0024	P	2.7	-9.9
5	☐	100.000	102.308	36281.52	0.0267	P	1.9	2.3
6	☐	200.000	198.900	70397.38	0.0519	P	3.7	-0.5

y = 2.6105E-004 * x + 1.4810E-005
R = 0.9999
DL = 0.2265 ppb
BEC = 0.05673 ppb

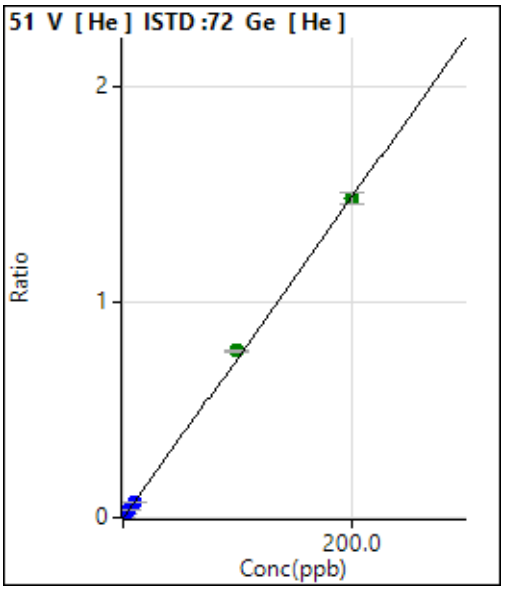
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	614798.06	0.1448	P	2.4	
2	☐	2.000	4.402	896422.41	0.2114	P	0.5	120.1
3	☐	5.000	7.432	1092129.65	0.2573	P	2.0	48.6
4	☐	10.000	12.468	1421050.90	0.3335	P	1.3	24.7
5	☐	100.000	100.657	7078569.65	1.6677	A	1.0	0.7
6	☐	200.000	199.463	13076010.33	3.1626	A	3.4	-0.3

y = 0.0151 * x + 0.1448
R = 0.9999
DL = 0.6863 ppb
BEC = 9.572 ppb

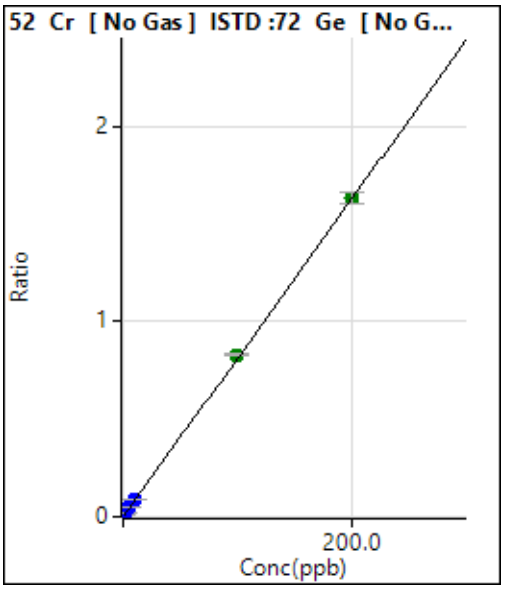
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5348.86	0.0039	P	1.4	
2	☐	2.000	1.845	24299.38	0.0177	P	3.0	-7.8
3	☐	5.000	4.394	50665.66	0.0367	P	2.1	-12.1
4	☐	10.000	9.277	99950.98	0.0730	P	1.9	-7.2
5	☐	100.000	103.210	1049362.98	0.7729	A	2.0	3.2
6	☐	200.000	198.448	2009370.47	1.4825	A	3.2	-0.8

y = 0.0075 * x + 0.0039
R = 0.9998
DL = 0.02159 ppb
BEC = 0.5274 ppb

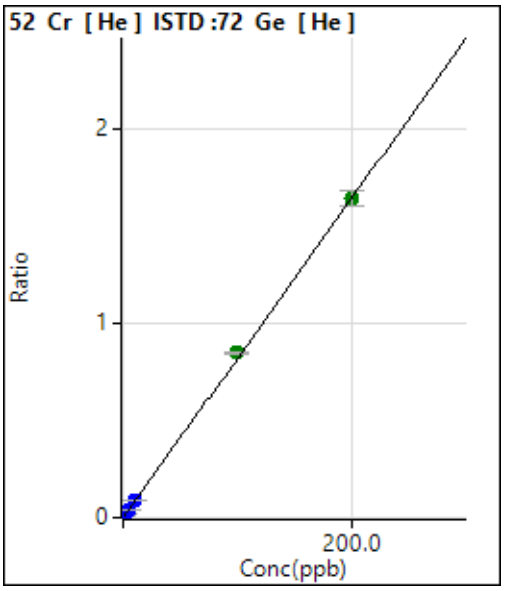
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35085.49	0.0083	P	1.7	
2	☐	2.000	1.985	103597.00	0.0244	P	1.5	-0.8
3	☐	5.000	4.785	200568.54	0.0472	P	1.6	-4.3
4	☐	10.000	9.661	370607.33	0.0870	P	2.1	-3.4
5	☐	100.000	100.617	3514075.05	0.8280	A	1.2	0.6
6	☐	200.000	199.714	6761341.56	1.6353	A	3.2	-0.1

y = 0.0081 * x + 0.0083
R = 1.0000
DL = 0.05048 ppb
BEC = 1.014 ppb

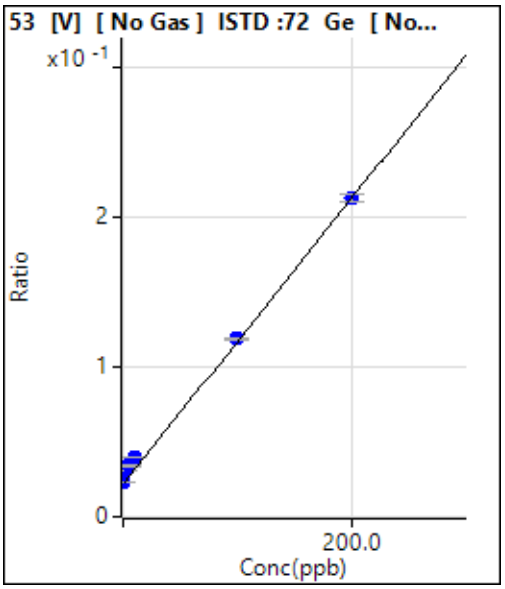
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9339.98	0.0069	P	3.5	
2	☐	2.000	1.933	31316.14	0.0228	P	3.0	-3.3
3	☐	5.000	4.514	60825.43	0.0440	P	1.8	-9.7
4	☐	10.000	9.515	116563.89	0.0852	P	1.3	-4.8
5	☐	100.000	102.203	1151535.56	0.8481	A	2.0	2.2
6	☐	200.000	198.935	2228180.75	1.6443	A	4.6	-0.5

y = 0.0082 * x + 0.0069
R = 0.9999
DL = 0.08869 ppb
BEC = 0.8337 ppb

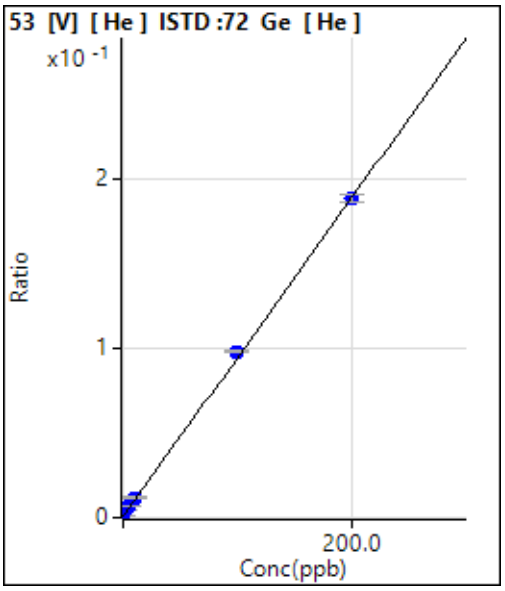
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97255.00	0.0229	P	2.9	
2	☐	2.000	8.603	131872.38	0.0311	P	0.9	330.1
3	☐	5.000	11.926	145468.47	0.0343	P	2.7	138.5
4	☐	10.000	17.543	168826.61	0.0396	P	0.4	75.4
5	☐	100.000	100.610	503778.47	0.1187	P	1.3	0.6
6	☐	200.000	199.079	878550.56	0.2125	P	2.4	-0.5

y = 9.5214E-004 * x + 0.0229
R = 0.9993
DL = 2.117 ppb
BEC = 24.06 ppb

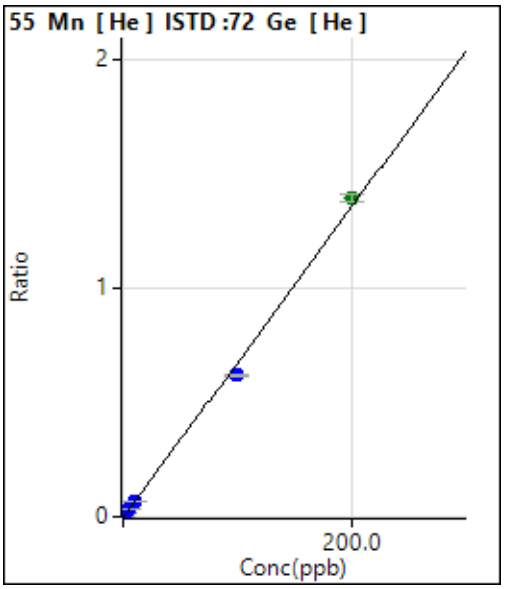
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2246.90	0.0017	P	2.9	
2	☐	2.000	2.533	5551.24	0.0040	P	2.2	26.7
3	☐	5.000	5.106	8923.05	0.0065	P	1.6	2.1
4	☐	10.000	10.849	16236.57	0.0119	P	2.5	8.5
5	☐	100.000	102.483	133241.75	0.0981	P	1.0	2.5
6	☐	200.000	198.708	255830.44	0.1887	P	2.5	-0.6

y = 9.4143E-004 * x + 0.0017
R = 0.9999
DL = 0.1517 ppb
BEC = 1.753 ppb

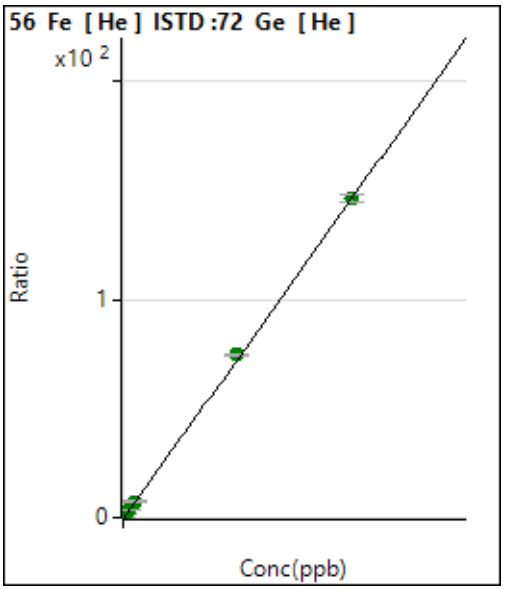
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3400.48	0.0025	P	7.3	
2	☐	2.000	1.723	19557.66	0.0142	P	2.8	-13.9
3	☐	5.000	4.361	44482.68	0.0322	P	2.0	-12.8
4	☐	10.000	8.984	87113.74	0.0637	P	1.5	-10.2
5	☐	100.000	90.667	841517.77	0.6198	P	1.0	-9.3
6	☐	200.000	204.736	1892878.62	1.3963	A	2.4	2.4

y = 0.0068 * x + 0.0025
R = 0.9985
DL = 0.08082 ppb
BEC = 0.3667 ppb

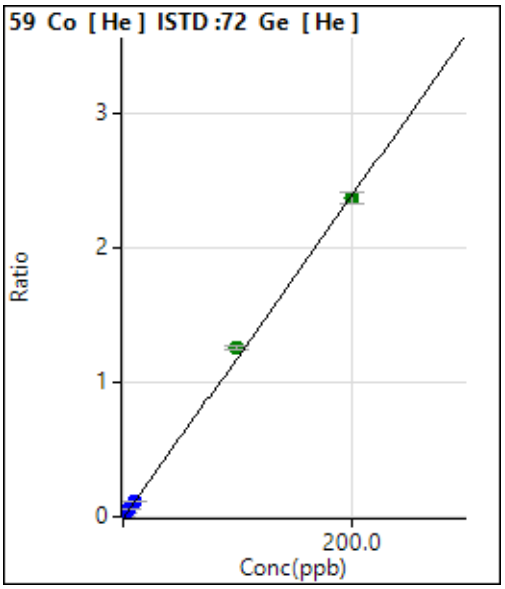
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50433.56	0.0370	P	1.2	
2	☐	200.000	202.765	2097319.14	1.5257	A	4.7	1.4
3	☐	500.000	486.133	4982479.40	3.6060	A	2.2	-2.8
4	☐	1000.000	1012.853	10226031.10	7.4730	A	1.2	1.3
5	☐	10000.00	10150.41	101227901.8	74.5568	A	1.9	1.5
6	☐	20000.00	19924.47	198353130.3	146.313	A	2.1	-0.4

y = 0.0073 * x + 0.0370
R = 1.0000
DL = 0.187 ppb
BEC = 5.046 ppb

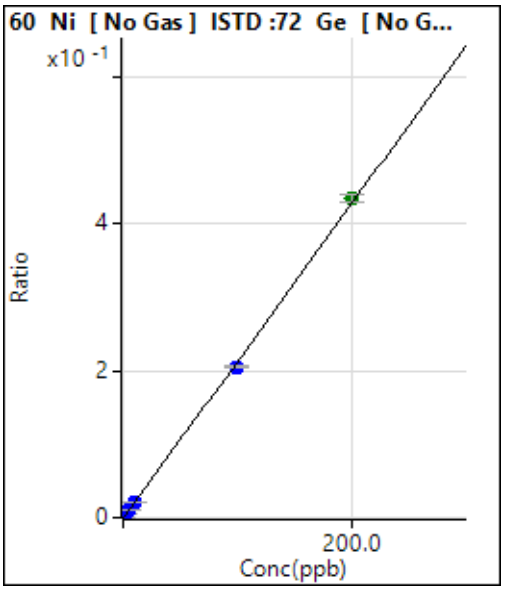
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0002	P	2.7	
2	☐	2.000	1.876	31179.53	0.0227	P	2.6	-6.2
3	☐	5.000	4.587	76246.34	0.0552	P	2.4	-8.3
4	☐	10.000	9.798	161011.34	0.1177	P	1.4	-2.0
5	☐	100.000	104.592	1703016.48	1.2543	A	1.9	4.6
6	☐	200.000	197.726	3214112.66	2.3710	A	4.0	-1.1

y = 0.0120 * x + 1.8359E-004
R = 0.9996
DL = 0.001259 ppb
BEC = 0.01531 ppb

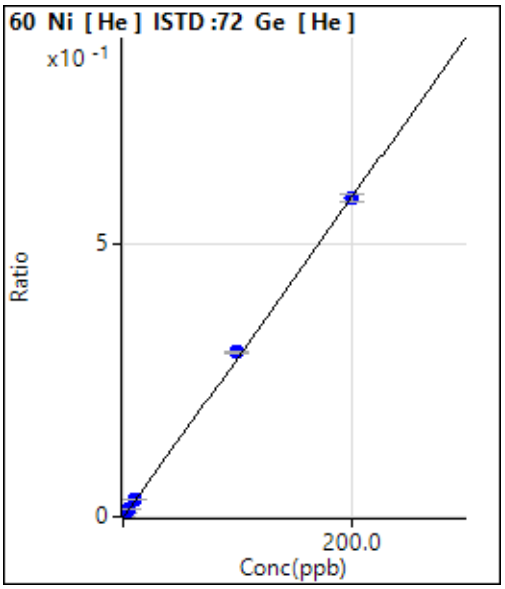
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3840.61	0.0009	P	6.6	
2	☐	2.000	1.885	20976.50	0.0049	P	1.4	-5.7
3	☐	5.000	4.801	47539.75	0.0112	P	1.2	-4.0
4	☐	10.000	9.635	91889.34	0.0216	P	2.4	-3.6
5	☐	100.000	95.380	871673.74	0.2054	P	1.8	-4.6
6	☐	200.000	202.334	1797677.79	0.4347	A	1.9	1.2

y = 0.0021 * x + 9.0519E-004
R = 0.9996
DL = 0.08371 ppb
BEC = 0.4222 ppb

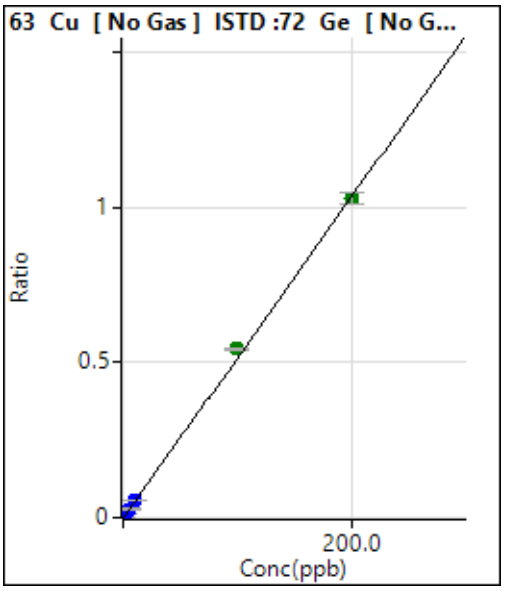
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1243.41	0.0009	P	9.2	
2	☐	2.000	1.924	9003.14	0.0065	P	1.9	-3.8
3	☐	5.000	4.966	21353.74	0.0155	P	1.6	-0.7
4	☐	10.000	10.157	41948.25	0.0307	P	1.5	1.6
5	☐	100.000	102.600	409182.51	0.3014	P	1.0	2.6
6	☐	200.000	198.694	789909.16	0.5828	P	3.0	-0.7

y = 0.0029 * x + 9.1263E-004
R = 0.9999
DL = 0.08618 ppb
BEC = 0.3117 ppb

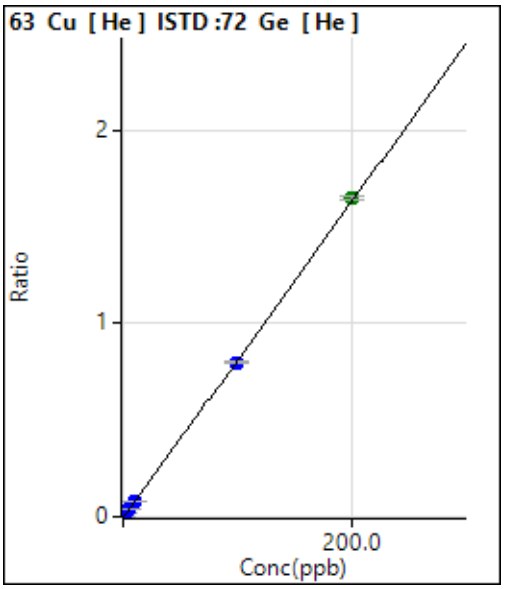
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11161.43	0.0026	P	0.8	
2	☐	2.000	2.003	55225.65	0.0130	P	1.7	0.2
3	☐	5.000	4.845	117919.35	0.0278	P	1.6	-3.1
4	☐	10.000	9.814	228255.23	0.0536	P	2.6	-1.9
5	☐	100.000	104.132	2304797.62	0.5431	A	2.1	4.1
6	☐	200.000	197.947	4258630.46	1.0300	A	4.1	-1.0

y = 0.0052 * x + 0.0026
R = 0.9997
DL = 0.01246 ppb
BEC = 0.5064 ppb

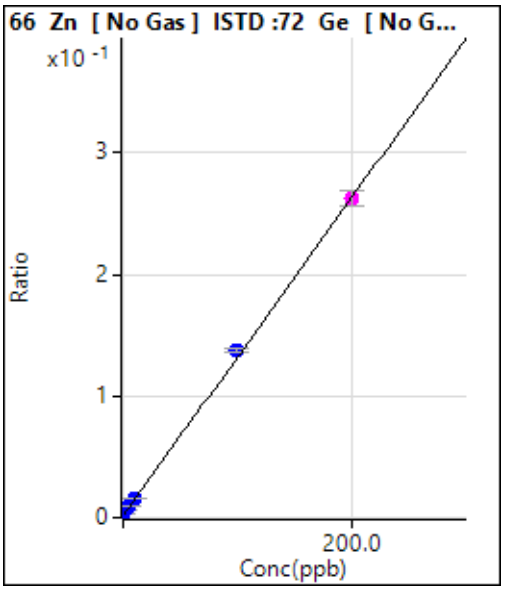
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1843.50	0.0014	P	10.8	
2	☐	2.000	1.833	22462.33	0.0163	P	6.3	-8.4
3	☐	5.000	4.600	53840.51	0.0390	P	2.4	-8.0
4	☐	10.000	9.719	110604.91	0.0808	P	1.8	-2.8
5	☐	100.000	97.257	1081698.94	0.7967	P	0.9	-2.7
6	☐	200.000	201.397	2234656.84	1.6482	A	1.6	0.7

y = 0.0082 * x + 0.0014
R = 0.9999
DL = 0.05383 ppb
BEC = 0.1657 ppb

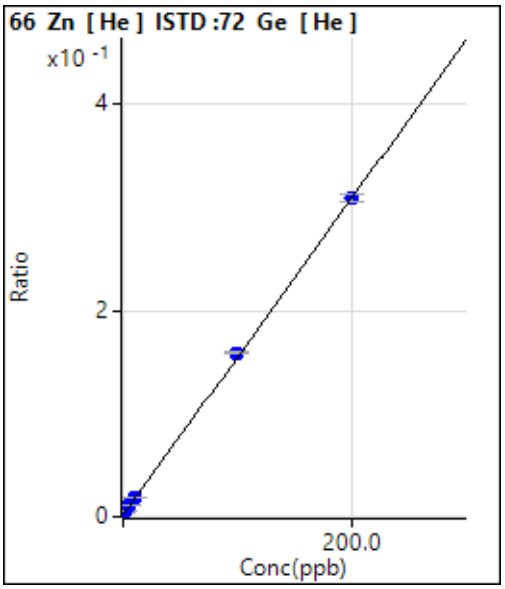
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12375.84	0.0029	P	0.5	
2	☐	2.000	2.067	23827.92	0.0056	P	2.2	3.4
3	☐	5.000	5.534	43122.28	0.0102	P	0.9	10.7
4	☐	10.000	10.327	70023.89	0.0164	P	1.2	3.3
5	☐	100.000	102.806	583399.30	0.1375	P	1.8	2.8
6	☐	200.000	198.567	1086543.37	0.2628	M	4.3	-0.7

y = 0.0013 * x + 0.0029
R = 0.9999
DL = 0.03453 ppb
BEC = 2.227 ppb

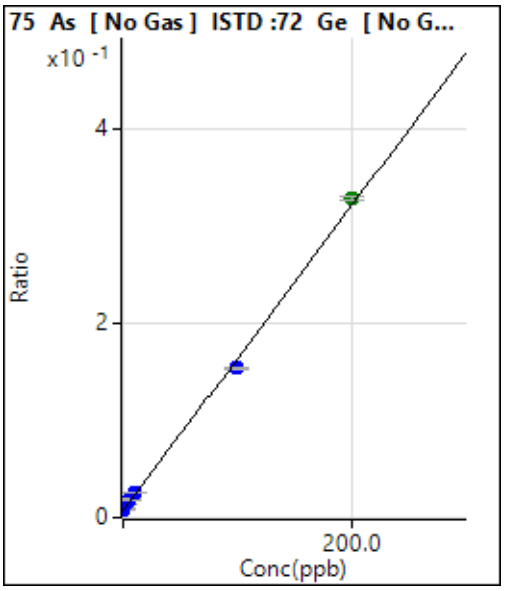
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4324.10	0.0032	P	6.2	
2	☐	2.000	2.031	8649.60	0.0063	P	7.1	1.5
3	☐	5.000	5.467	15986.40	0.0116	P	6.9	9.3
4	☐	10.000	9.819	24980.06	0.0183	P	1.4	-1.8
5	☐	100.000	101.516	215996.14	0.1591	P	1.6	1.5
6	☐	200.000	199.239	419145.35	0.3092	P	2.2	-0.4

y = 0.0015 * x + 0.0032
R = 1.0000
DL = 0.383 ppb
BEC = 2.067 ppb

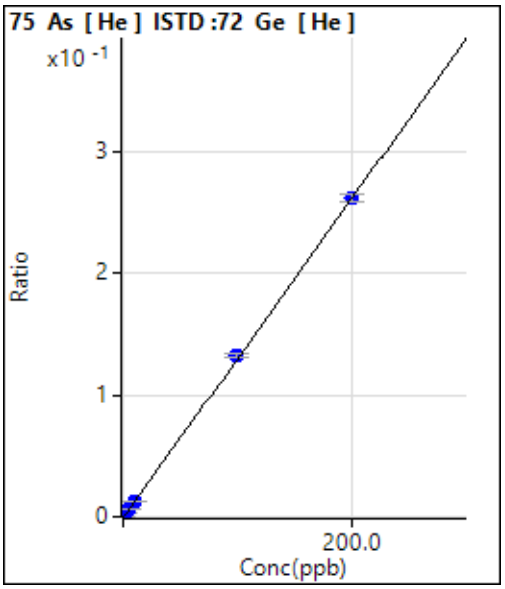
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37472.47	0.0088	P	4.6	
2	☐	2.000	3.563	61208.67	0.0144	P	1.5	78.1
3	☐	5.000	6.324	79731.52	0.0188	P	2.2	26.5
4	☐	10.000	11.312	113498.35	0.0266	P	0.8	13.1
5	☐	100.000	92.247	653577.65	0.1540	P	0.6	-7.8
6	☐	200.000	203.762	1362654.25	0.3295	A	1.7	1.9

y = 0.0016 * x + 0.0088
R = 0.9988
DL = 0.7714 ppb
BEC = 5.611 ppb

Weight: <None>
Min Conc: <None>

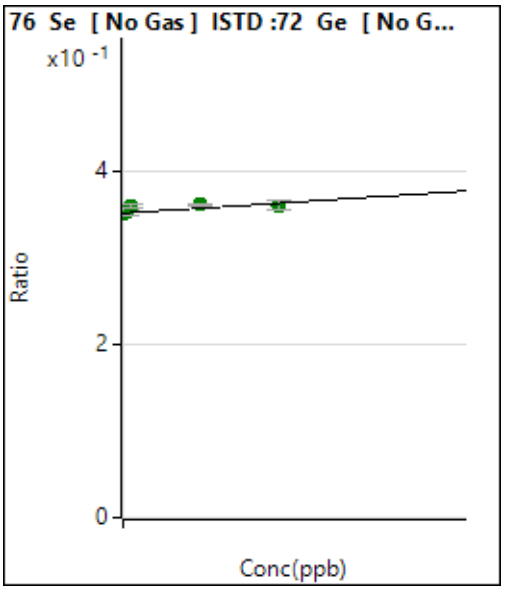


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	372.23	0.0003	P	9.4	
2	☐	2.000	1.891	3782.77	0.0028	P	4.4	-5.4
3	☐	5.000	4.759	8994.15	0.0065	P	3.0	-4.8
4	☐	10.000	9.751	17856.32	0.0130	P	1.5	-2.5
5	☐	100.000	101.040	180103.89	0.1327	P	1.9	1.0
6	☐	200.000	199.500	354662.82	0.2617	P	2.8	-0.3

y = 0.0013 * x + 2.7358E-004
R = 1.0000
DL = 0.05893 ppb
BEC = 0.2088 ppb

Weight: <None>
Min Conc: <None>

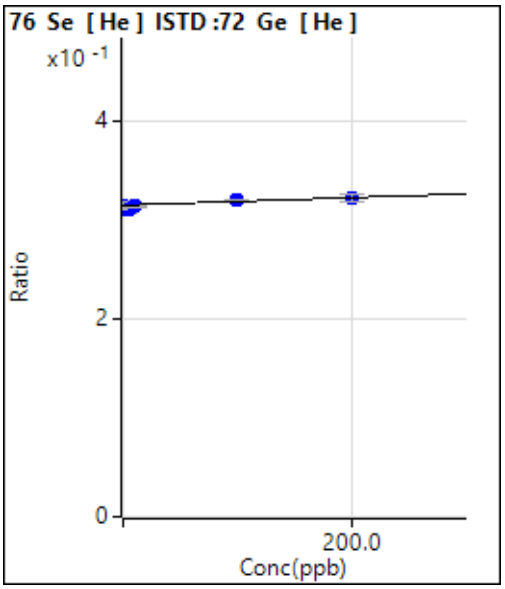
Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1494165.45	0.3519	A	1.8	
2	☐	2.000	44.884	1503363.83	0.3546	A	0.8	2144.2
3	☐	5.000	11.091	1496781.80	0.3526	A	2.4	121.8
4	☐	10.000	145.124	1536089.46	0.3605	A	1.6	1351.2
5	☐	100.000	164.856	1534796.90	0.3616	A	1.0	64.9
6	☐	200.000	160.235	1494074.09	0.3613	A	3.0	-19.9

y = 5.8808E-005 * x + 0.3519
R = 0.7067
DL = 321.8 ppb
BEC = 5984 ppb

Weight: <None>
Min Conc: <None>

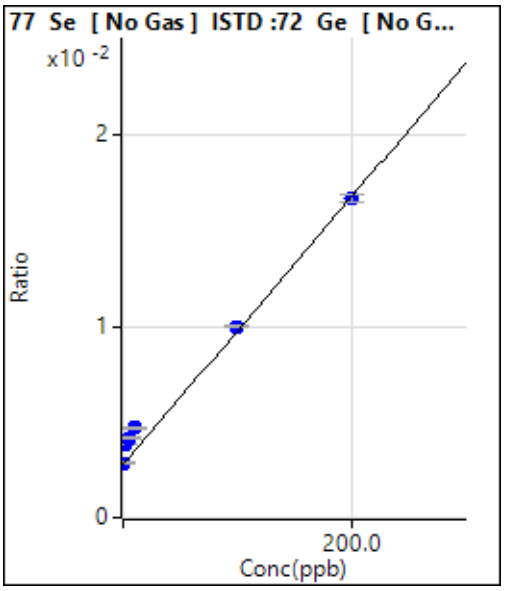


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	427751.36	0.3142	P	2.3	
2	☐	2.000	-104.193	426520.64	0.3102	P	3.2	-5309.7
3	☐	5.000	-112.144	428234.81	0.3099	P	0.4	-2342.9
4	☐	10.000	-29.096	428478.57	0.3131	P	0.4	-391.0
5	☐	100.000	132.726	433672.81	0.3194	P	0.5	32.7
6	☐	200.000	189.583	436023.20	0.3216	P	1.9	-5.2

y = 3.8747E-005 * x + 0.3142
R = 0.9095
DL = 566.2 ppb
BEC = 8110 ppb

Weight: <None>
Min Conc: <None>

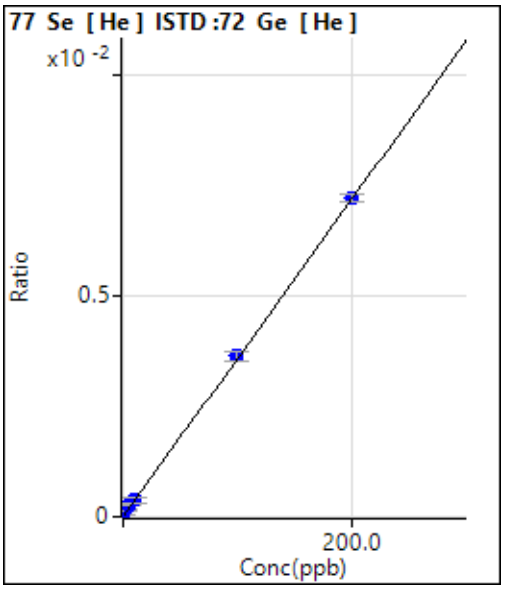
Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12159.02	0.0029	P	2.2	
2	☐	2.000	13.680	16200.05	0.0038	P	2.3	584.0
3	☐	5.000	18.579	17675.19	0.0042	P	2.0	271.6
4	☐	10.000	26.237	20025.23	0.0047	P	2.1	162.4
5	☐	100.000	102.078	42457.30	0.0100	P	1.3	2.1
6	☐	200.000	197.693	69030.65	0.0167	P	1.8	-1.2

y = 6.9938E-005 * x + 0.0029
R = 0.9971
DL = 2.709 ppb
BEC = 40.95 ppb

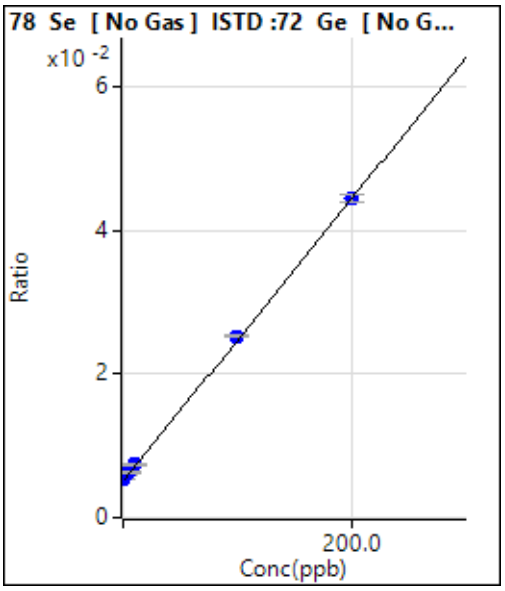
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	12.0	
2	☐	2.000	3.307	216.68	0.0002	P	12.3	65.4
3	☐	5.000	6.175	360.01	0.0003	P	8.4	23.5
4	☐	10.000	9.307	510.02	0.0004	P	27.8	-6.9
5	☐	100.000	100.104	4924.32	0.0036	P	5.6	0.1
6	☐	200.000	199.940	9777.05	0.0072	P	2.6	0.0

y = 3.5846E-005 * x + 3.9208E-005
R = 1.0000
DL = 0.3925 ppb
BEC = 1.094 ppb

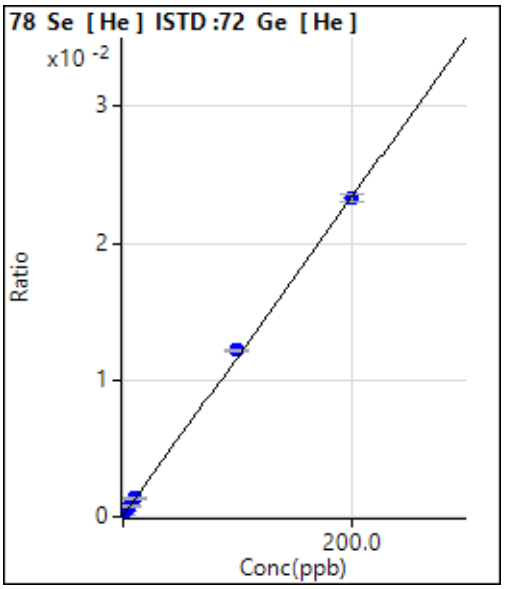
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22589.32	0.0053	P	1.9	
2	☐	2.000	2.625	24739.73	0.0058	P	2.5	31.2
3	☐	5.000	5.011	26756.96	0.0063	P	2.1	0.2
4	☐	10.000	10.579	31517.20	0.0074	P	2.6	5.8
5	☐	100.000	101.283	106912.61	0.0252	P	1.2	1.3
6	☐	200.000	199.323	183736.33	0.0444	P	2.5	-0.3

y = 1.9621E-004 * x + 0.0053
R = 1.0000
DL = 1.521 ppb
BEC = 27.11 ppb

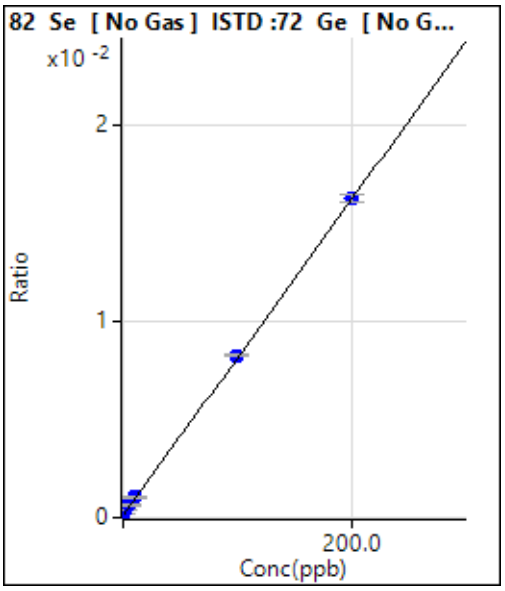
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.00	0.0002	P	8.3	
2	☐	2.000	1.886	564.68	0.0004	P	5.1	-5.7
3	☐	5.000	4.811	1038.04	0.0008	P	6.9	-3.8
4	☐	10.000	9.945	1846.13	0.0013	P	2.3	-0.5
5	☐	100.000	102.996	16546.86	0.0122	P	1.3	3.0
6	☐	200.000	198.511	31598.28	0.0233	P	2.7	-0.7

y = 1.1647E-004 * x + 1.9086E-004
R = 0.9998
DL = 0.4058 ppb
BEC = 1.639 ppb

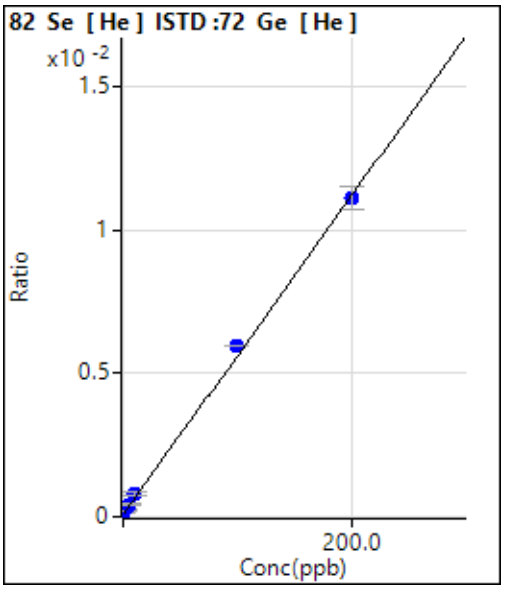
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0002	P	3.3	
2	☐	2.000	2.138	1533.45	0.0004	P	8.0	6.9
3	☐	5.000	5.728	2763.68	0.0007	P	4.3	14.6
4	☐	10.000	10.450	4397.47	0.0010	P	3.0	4.5
5	☐	100.000	100.459	35169.87	0.0083	P	1.8	0.5
6	☐	200.000	199.728	67365.52	0.0163	P	1.9	-0.1

y = 8.0613E-005 * x + 1.8926E-004
R = 1.0000
DL = 0.2358 ppb
BEC = 2.348 ppb

Weight: <None>
Min Conc: <None>

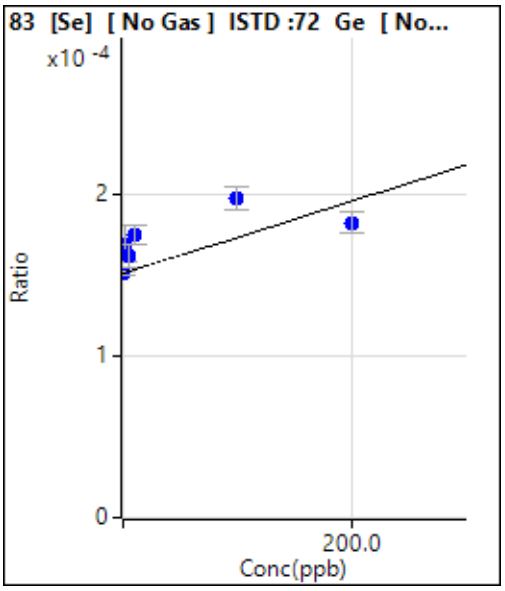


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	19.2	
2	☐	2.000	2.205	346.68	0.0003	P	18.2	10.2
3	☐	5.000	5.428	596.69	0.0004	P	9.6	8.6
4	☐	10.000	11.861	1080.06	0.0008	P	16.3	18.6
5	☐	100.000	104.820	8095.91	0.0060	P	1.0	4.8
6	☐	200.000	197.484	15062.05	0.0111	P	7.2	-1.3

y = 5.5645E-005 * x + 1.2968E-004
R = 0.9996
DL = 1.345 ppb
BEC = 2.33 ppb

Weight: <None>
Min Conc: <None>

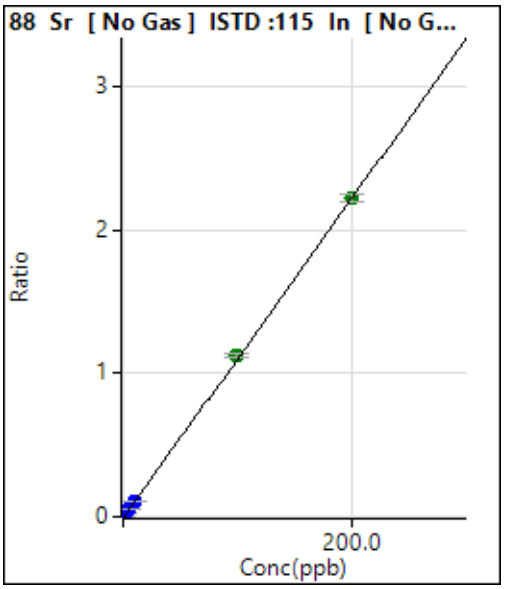
Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	643.36	0.0002	P	1.8	
2	☐	2.000	81.318	720.03	0.0002	P	12.8	3965.9
3	☐	5.000	49.102	690.03	0.0002	P	8.9	882.0
4	☐	10.000	105.851	746.70	0.0002	P	6.6	958.5
5	☐	100.000	206.708	840.05	0.0002	P	7.4	106.7
6	☐	200.000	139.958	756.70	0.0002	P	7.7	-30.0

y = 2.2406E-007 * x + 1.5152E-004
R = 0.6573
DL = 36.8 ppb
BEC = 676.2 ppb

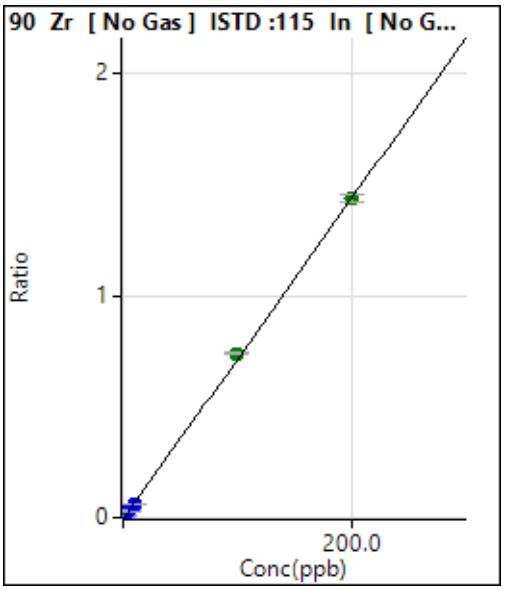
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3557.22	0.0007	P	2.0	
2	☐	2.000	1.826	103385.01	0.0211	P	1.4	-8.7
3	☐	5.000	4.524	254121.01	0.0513	P	3.3	-9.5
4	☐	10.000	9.304	522297.47	0.1046	P	1.3	-7.0
5	☐	100.000	101.289	5520538.04	1.1317	A	2.1	1.3
6	☐	200.000	199.404	10599502.34	2.2273	A	1.8	-0.3

y = 0.0112 * x + 7.3513E-004
R = 1.0000
DL = 0.003897 ppb
BEC = 0.06584 ppb

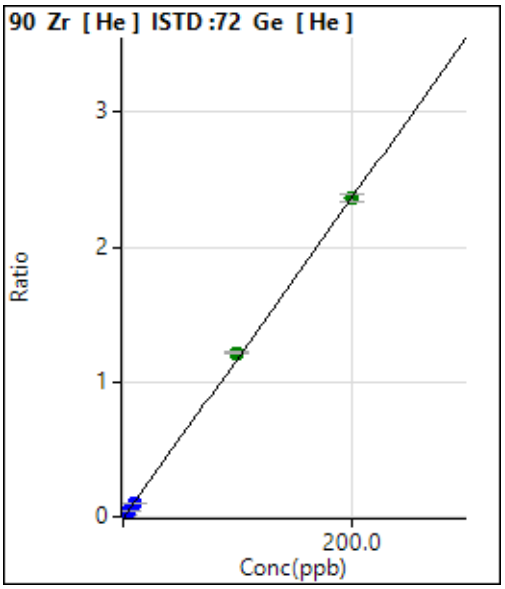
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1776.82	0.0004	P	5.1	
2	☐	2.000	1.596	58317.70	0.0119	P	1.6	-20.2
3	☐	5.000	4.177	151634.72	0.0306	P	2.8	-16.5
4	☐	10.000	8.798	319547.09	0.0640	P	2.4	-12.0
5	☐	100.000	102.159	3606591.92	0.7394	A	0.8	2.2
6	☐	200.000	199.005	6853161.98	1.4400	A	1.9	-0.5

y = 0.0072 * x + 3.6715E-004
R = 0.9999
DL = 0.007741 ppb
BEC = 0.05075 ppb

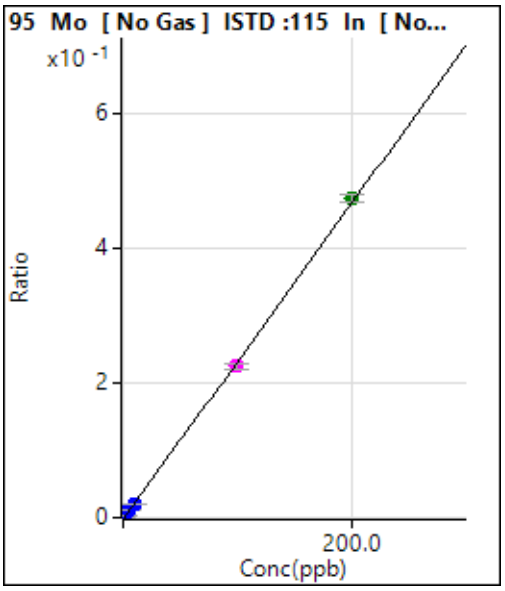
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.77	0.0011	P	9.2	
2	☐	2.000	1.545	26707.10	0.0194	P	5.5	-22.7
3	☐	5.000	3.929	65926.53	0.0477	P	1.8	-21.4
4	☐	10.000	8.442	138563.37	0.1013	P	2.0	-15.6
5	☐	100.000	102.048	1645724.87	1.2120	A	1.1	2.0
6	☐	200.000	199.085	3203688.18	2.3635	A	2.8	-0.5

y = 0.0119 * x + 0.0011
R = 0.9999
DL = 0.02538 ppb
BEC = 0.09196 ppb

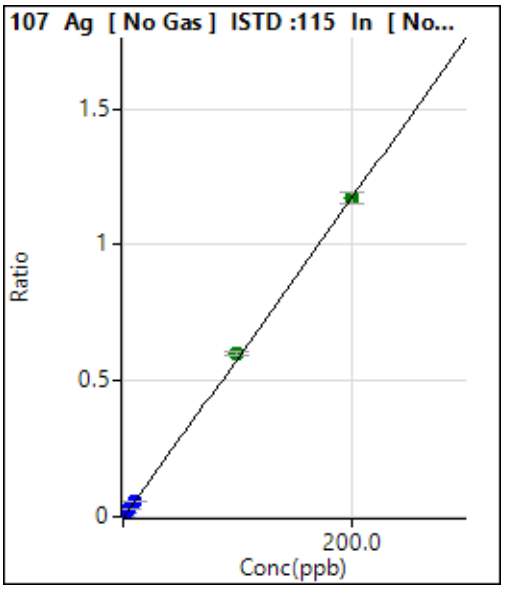
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	25.1	
2	☐	2.000	1.722	20058.74	0.0041	P	2.7	-13.9
3	☐	5.000	4.279	50118.02	0.0101	P	1.2	-14.4
4	☐	10.000	9.028	106134.93	0.0213	P	1.7	-9.7
5	☐	100.000	95.792	1097872.72	0.2251	M	3.1	-4.2
6	☐	200.000	202.173	2260718.19	0.4749	A	2.1	1.1

y = 0.0023 * x + 5.4360E-005
R = 0.9997
DL = 0.01744 ppb
BEC = 0.02314 ppb

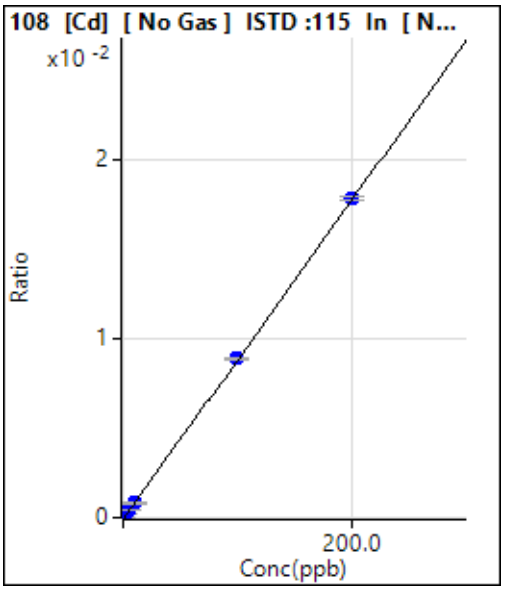
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.69	0.0001	P	18.0	
2	☐	2.000	1.799	52531.34	0.0107	P	0.7	-10.0
3	☐	5.000	4.470	131219.09	0.0265	P	2.4	-10.6
4	☐	10.000	9.132	269181.78	0.0539	P	2.0	-8.7
5	☐	100.000	101.903	2928084.54	0.6003	A	3.2	1.9
6	☐	200.000	199.107	5580571.17	1.1728	A	3.6	-0.4

y = 0.0059 * x + 1.3569E-004
R = 0.9999
DL = 0.01243 ppb
BEC = 0.02304 ppb

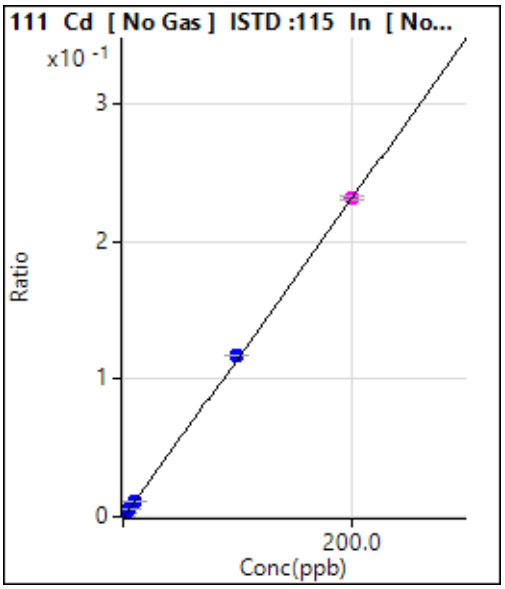
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.	
2	☐	2.000	2.113	926.72	0.0002	P	4.2	5.6
3	☐	5.000	4.882	2160.22	0.0004	P	12.9	-2.4
4	☐	10.000	9.486	4217.41	0.0008	P	12.2	-5.1
5	☐	100.000	99.538	43204.52	0.0089	P	2.3	-0.5
6	☐	200.000	200.259	84805.06	0.0178	P	1.5	0.1

y = 8.8970E-005 * x + 1.3683E-006
R = 1.0000
DL = 0.07992 ppb
BEC = 0.01538 ppb

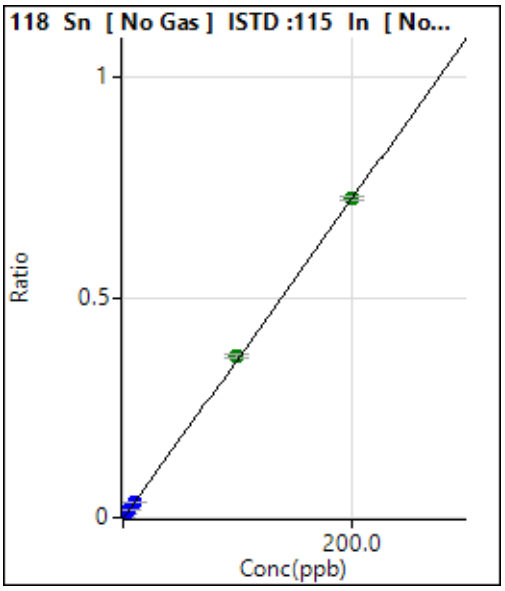
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	34.0	
2	☐	2.000	1.979	11278.34	0.0023	P	2.7	-1.1
3	☐	5.000	4.888	28173.83	0.0057	P	2.8	-2.2
4	☐	10.000	9.892	57368.49	0.0115	P	1.4	-1.1
5	☐	100.000	101.063	572377.83	0.1173	P	0.8	1.1
6	☐	200.000	199.477	1102376.78	0.2316	M	0.8	-0.3

y = 0.0012 * x + 6.8757E-006
R = 1.0000
DL = 0.006044 ppb
BEC = 0.005922 ppb

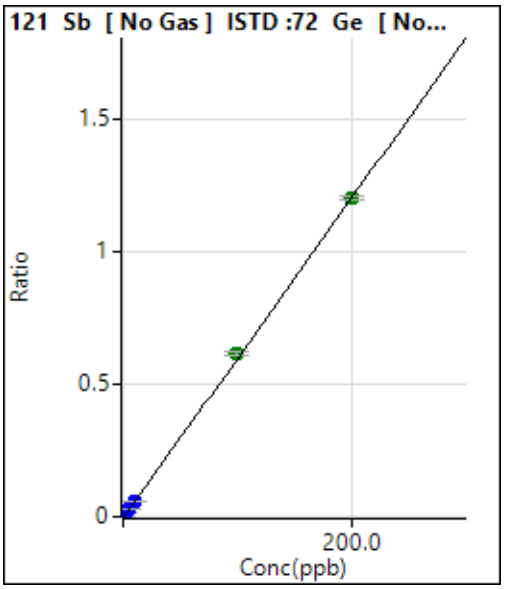
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3800.62	0.0008	P	5.7	
2	☐	2.000	1.833	36441.04	0.0074	P	0.7	-8.3
3	☐	5.000	4.481	84595.79	0.0171	P	4.0	-10.4
4	☐	10.000	9.229	171291.56	0.0343	P	1.4	-7.7
5	☐	100.000	101.097	1795315.70	0.3680	A	2.8	1.1
6	☐	200.000	199.504	3453474.22	0.7255	A	1.2	-0.2

y = 0.0036 * x + 7.8548E-004
R = 1.0000
DL = 0.03696 ppb
BEC = 0.2162 ppb

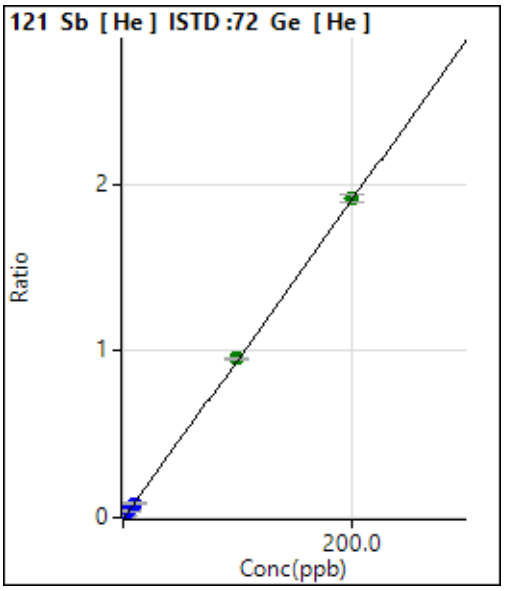
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	480.02	0.0001	P	11.5	
2	☐	2.000	1.854	48071.79	0.0113	P	3.5	-7.3
3	☐	5.000	4.588	118398.95	0.0279	P	2.8	-8.2
4	☐	10.000	9.463	244576.55	0.0574	P	2.7	-5.4
5	☐	100.000	102.070	2622447.93	0.6180	A	2.1	2.1
6	☐	200.000	199.004	4982773.26	1.2047	A	0.9	-0.5

y = 0.0061 * x + 1.1303E-004
R = 0.9999
DL = 0.006446 ppb
BEC = 0.01867 ppb

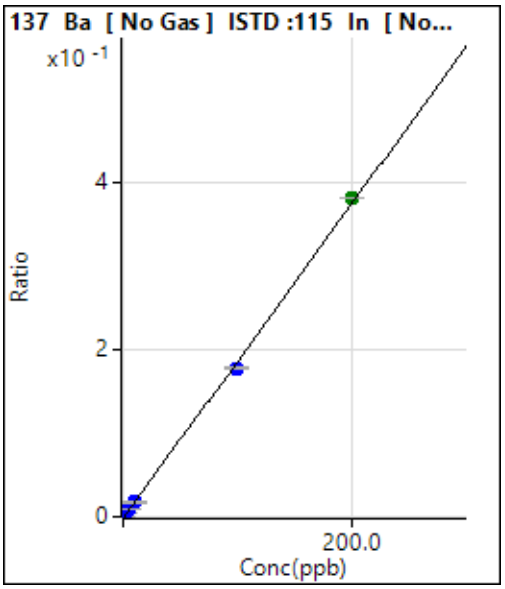
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0002	P	15.6	
2	☐	2.000	1.707	22723.50	0.0165	P	4.3	-14.6
3	☐	5.000	4.250	56474.95	0.0409	P	2.9	-15.0
4	☐	10.000	8.942	117395.96	0.0858	P	2.1	-10.6
5	☐	100.000	99.599	1295000.24	0.9537	A	0.3	-0.4
6	☐	200.000	200.275	2599595.79	1.9175	A	2.6	0.1

y = 0.0096 * x + 1.8387E-004
R = 1.0000
DL = 0.008984 ppb
BEC = 0.01921 ppb

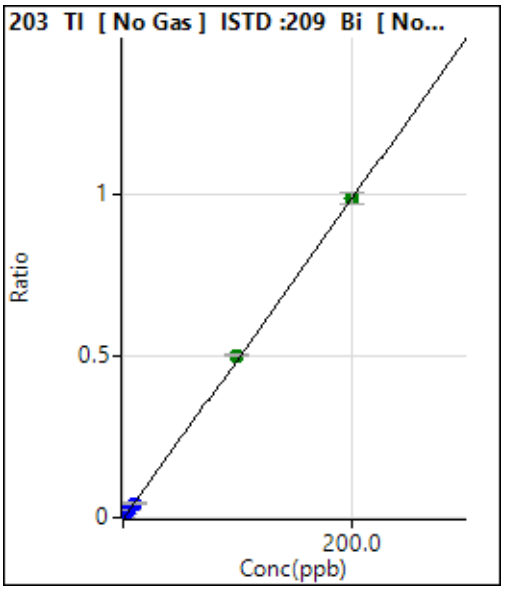
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0001	P	9.7	
2	☐	2.000	1.821	17415.35	0.0036	P	0.8	-8.9
3	☐	5.000	4.465	42329.40	0.0085	P	2.8	-10.7
4	☐	10.000	9.149	86635.31	0.0174	P	2.3	-8.5
5	☐	100.000	94.618	869612.90	0.1783	P	1.0	-5.4
6	☐	200.000	202.749	1817666.80	0.3819	A	0.6	1.4

y = 0.0019 * x + 1.2959E-004
R = 0.9995
DL = 0.01996 ppb
BEC = 0.06883 ppb

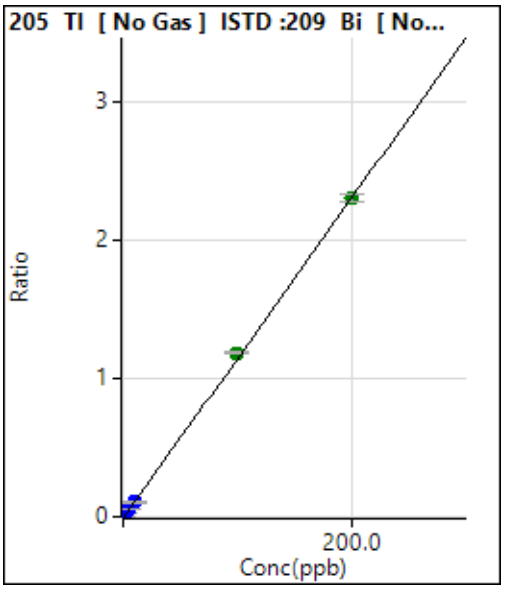
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	380.01	0.0001	P	23.9	
2	☐	2.000	1.820	41241.89	0.0091	P	2.2	-9.0
3	☐	5.000	4.601	104425.58	0.0229	P	6.7	-8.0
4	☐	10.000	8.891	203781.26	0.0441	P	3.4	-11.1
5	☐	100.000	101.297	2245440.12	0.5019	A	0.5	1.3
6	☐	200.000	199.419	4309066.29	0.9879	A	3.2	-0.3

y = 0.0050 * x + 8.4820E-005
R = 1.0000
DL = 0.01227 ppb
BEC = 0.01712 ppb

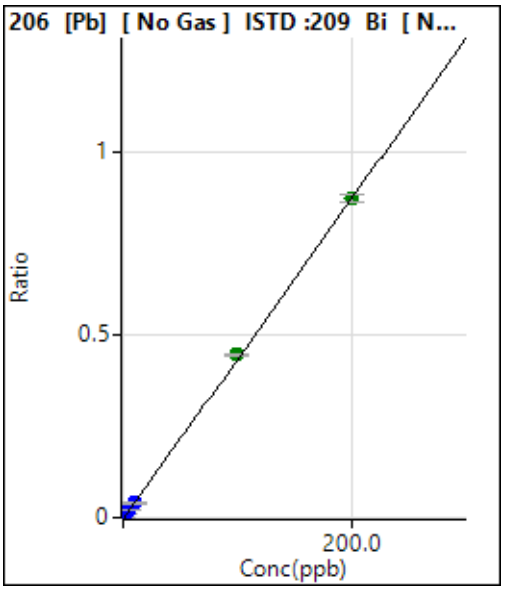
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	7.4	
2	☐	2.000	1.861	98401.05	0.0217	P	1.3	-7.0
3	☐	5.000	4.679	247978.48	0.0543	P	5.6	-6.4
4	☐	10.000	9.084	486110.03	0.1053	P	2.8	-9.2
5	☐	100.000	102.150	5286901.38	1.1817	A	1.1	2.1
6	☐	200.000	198.980	10038930.68	2.3017	A	2.3	-0.5

y = 0.0116 * x + 1.8881E-004
R = 0.9999
DL = 0.003635 ppb
BEC = 0.01632 ppb

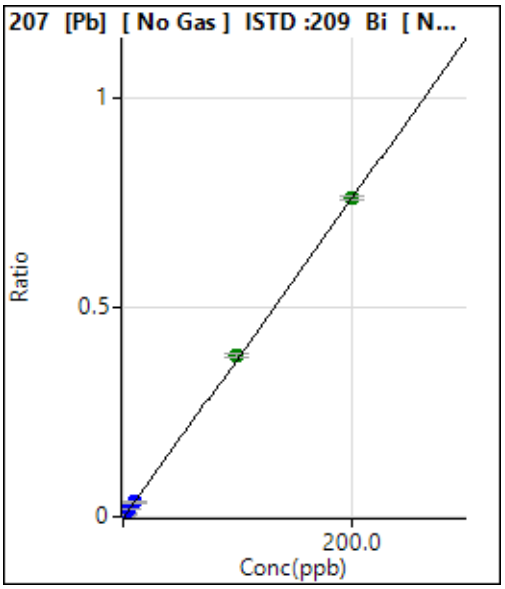
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	743.37	0.0002	P	10.6	
2	☐	2.000	1.800	36610.72	0.0081	P	1.1	-10.0
3	☐	5.000	4.456	90170.00	0.0197	P	6.3	-10.9
4	☐	10.000	9.031	184063.29	0.0399	P	1.5	-9.7
5	☐	100.000	101.698	2000022.78	0.4471	A	1.3	1.7
6	☐	200.000	199.215	3819130.88	0.8756	A	2.7	-0.4

y = 0.0044 * x + 1.6647E-004
R = 0.9999
DL = 0.012 ppb
BEC = 0.03788 ppb

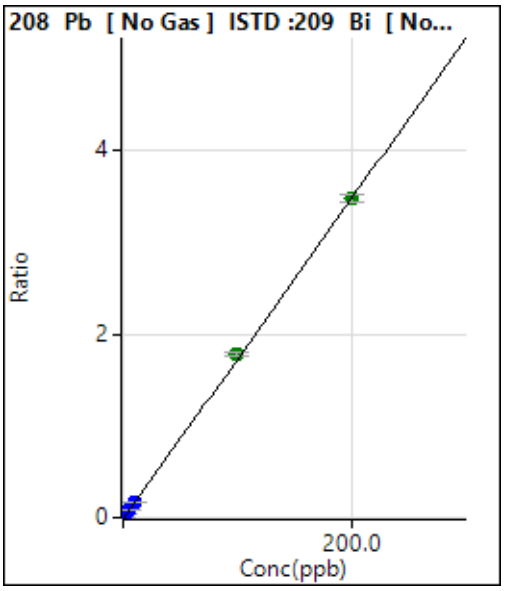
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	540.02	0.0001	P	11.7	
2	☐	2.000	1.784	31393.42	0.0069	P	1.7	-10.8
3	☐	5.000	4.481	78621.88	0.0172	P	3.8	-10.4
4	☐	10.000	9.002	159150.61	0.0345	P	2.8	-10.0
5	☐	100.000	101.224	1728099.51	0.3863	A	2.3	1.2
6	☐	200.000	199.453	3319498.91	0.7610	A	1.7	-0.3

y = 0.0038 * x + 1.2086E-004
R = 1.0000
DL = 0.01112 ppb
BEC = 0.03168 ppb

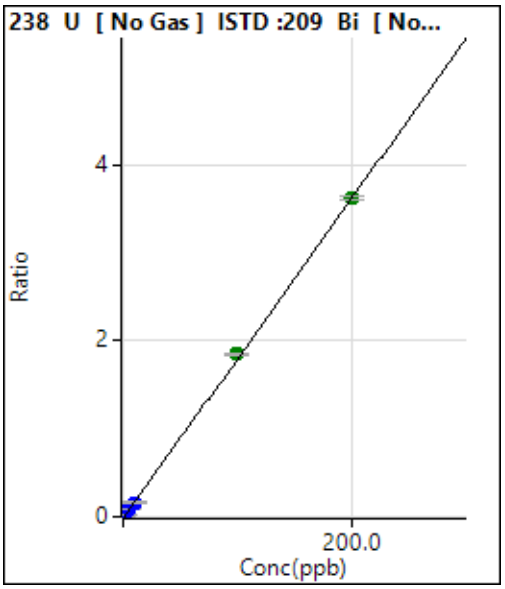
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2650.16	0.0006	P	7.0	
2	☐	2.000	1.804	145817.34	0.0322	P	1.1	-9.8
3	☐	5.000	4.480	360905.67	0.0790	P	3.9	-10.4
4	☐	10.000	9.087	737372.31	0.1597	P	2.2	-9.1
5	☐	100.000	102.035	7993190.97	1.7868	A	1.4	2.0
6	☐	200.000	199.043	15199802.17	3.4849	A	2.7	-0.5

y = 0.0175 * x + 5.9324E-004
R = 0.9999
DL = 0.007151 ppb
BEC = 0.03389 ppb

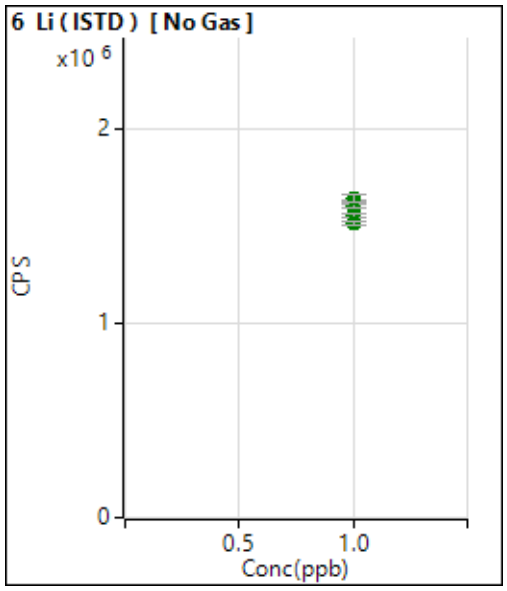
Weight: <None>
Min Conc: <None>



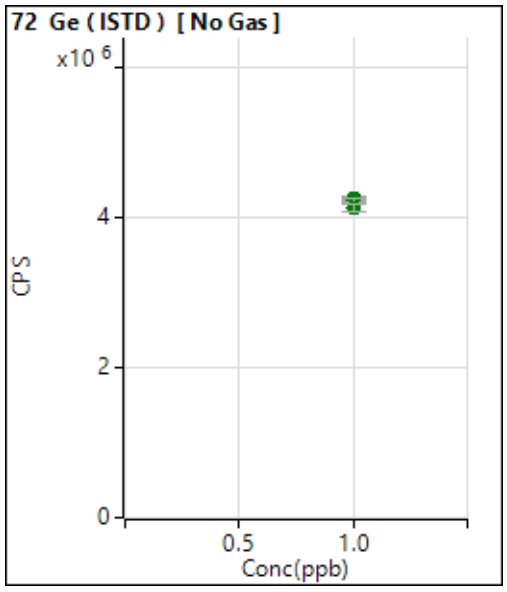
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0001	P	11.0	
2	☐	2.000	1.775	147015.12	0.0324	P	0.3	-11.2
3	☐	5.000	4.381	364616.10	0.0798	P	3.4	-12.4
4	☐	10.000	8.937	751515.69	0.1627	P	1.6	-10.6
5	☐	100.000	101.488	8260452.79	1.8463	A	0.4	1.5
6	☐	200.000	199.327	15816232.26	3.6261	A	1.7	-0.3

y = 0.0182 * x + 1.4091E-004
R = 0.9999
DL = 0.002548 ppb
BEC = 0.007746 ppb

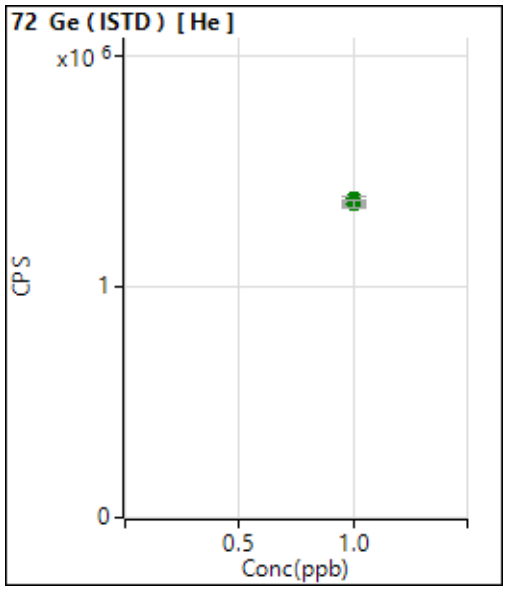
Weight: <None>
Min Conc: <None>



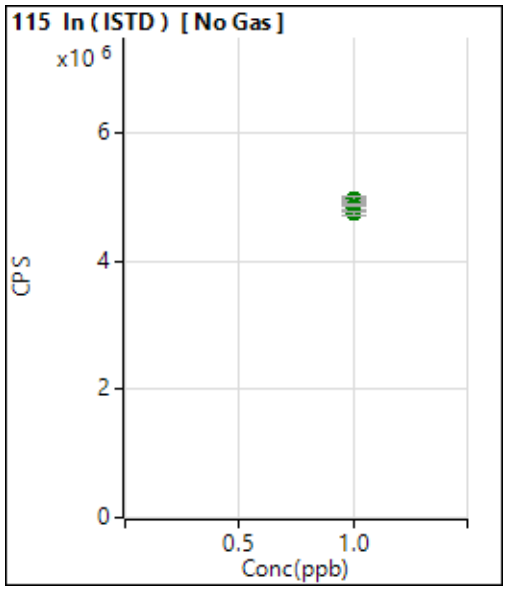
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1626895.79		A	1.0	
2	☐	1.000		1607839.23		A	1.2	
3	☐	1.000		1602391.41		A	1.1	
4	☐	1.000		1643429.61		A	2.3	
5	☐	1.000		1551668.95		A	1.3	
6	☐	1.000		1514899.28		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4246540.46		A	1.9	
2	☐	1.000		4240242.85		A	0.5	
3	☐	1.000		4245415.15		A	0.1	
4	☐	1.000		4261922.85		A	0.8	
5	☐	1.000		4244269.11		A	1.2	
6	☐	1.000		4136479.11		A	2.0	

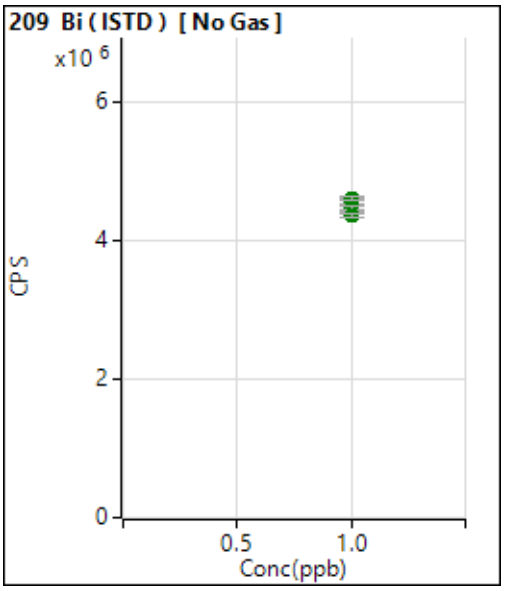


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1361459.30		A	1.3	
2	☐	1.000		1375532.64		A	2.0	
3	☐	1.000		1381892.53		A	0.9	
4	☐	1.000		1368442.27		A	0.5	
5	☐	1.000		1357841.85		A	0.8	
6	☐	1.000		1356148.78		A	2.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4838644.74		A	0.9	
2	☐	1.000		4894003.29		A	0.2	
3	☐	1.000		4959496.00		A	1.2	
4	☐	1.000		4992344.55		A	1.0	
5	☐	1.000		4877629.15		A	0.5	
6	☐	1.000		4759571.71		A	1.3	

Calibration for 206_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4469823.16		A	1.6	
2	☐	1.000		4532439.83		A	0.3	
3	☐	1.000		4569890.56		A	2.5	
4	☐	1.000		4619102.01		A	1.2	
5	☐	1.000		4474148.58		A	1.5	
6	☐	1.000		4362308.58		A	1.1	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	012CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:06:23-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	95176	0.00
Be	9	1	No Gas	87	37.85
V	51	2	He	10543	0.03
Cr	52	2	He	13036	0.02
Fe	56	2	He	50025	0.00
Se	78	2	He	236	0.62
As	75	2	He	430	3.43
Ca	44	2	He	1844	0.32
Na	23	2	He	106443	0.00
Mg	24	2	He	1583	0.36
K	39	2	He	147954	0.00
Mn	55	2	He	1487	0.91
Co	59	2	He	167	5.50
Ni	60	2	He	1040	0.72
Cu	63	2	He	1423	0.17
Zn	66	2	He	1533	1.02
Al	27	2	He	10431	0.05
B	11	1	No Gas	13794	0.02
Al	27	1	No Gas	354510	0.00
Si	28	1	No Gas	1429408	0.00
Ag	107	1	No Gas	1053	0.46
Cd	111	1	No Gas	33	226.50
Sr	88	1	No Gas	2430	0.16
Mo	95	1	No Gas	287	5.07
Sn	118	1	No Gas	4177	0.12
Sb	121	1	No Gas	363	3.74
Ba	137	1	No Gas	550	2.06
Tl	205	1	No Gas	803	0.73
Tl	203	1	No Gas	347	1.27
Pb	208	1	No Gas	2503	0.24
U	238	1	No Gas	740	0.37
Ca	43	2	He	73	75.15
Sb	121	2	He	200	25.37
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	3170	0.23

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1709693	2.18
Ge	72	2	He	1348381	0.77
Ge	72	1	No Gas	4032148	0.83
In	115	1	No Gas	4757365	0.65

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4387752	0.60

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:08:43-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	11521	0.02
V	51	2	He	28240	0.01
Cr	52	2	He	33832	0.00
Fe	56	2	He	2036211	0.00
Se	78	2	He	541	0.32
As	75	2	He	3767	0.12
Ca	44	2	He	13607	0.00
Na	23	2	He	398920	0.00
Mg	24	2	He	188110	0.00
K	39	2	He	383048	0.00
Mn	55	2	He	18520	0.02
Co	59	2	He	30568	0.01
Ni	60	2	He	8733	0.02
Cu	63	2	He	21567	0.01
Zn	66	2	He	5555	0.06
Al	27	2	He	11992	0.02
B	11	1	No Gas	43434	0.00
Al	27	1	No Gas	404962	0.00
Si	28	1	No Gas	1552261	0.00
Ag	107	1	No Gas	49583	0.00
Cd	111	1	No Gas	10211	0.01
Sr	88	1	No Gas	98465	0.00
Mo	95	1	No Gas	19471	0.02
Sn	118	1	No Gas	34152	0.00
Sb	121	1	No Gas	43723	0.00
Ba	137	1	No Gas	15970	0.01
Tl	205	1	No Gas	87806	0.00
Tl	203	1	No Gas	36835	0.01
Pb	208	1	No Gas	132344	0.00
U	238	1	No Gas	133077	0.00
Ca	43	2	He	817	1.36
Sb	121	2	He	21611	0.01
Cu	63	1	No Gas	44978	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	1684033	3.72	1709693	98.50	70	120	
Ge	72	2	He	1350236	1.35	1348381	100.14	70	120	
Ge	72	1	No Gas	4060405	1.39	4032148	100.70	70	120	

Calibration Standard Report

In	115	1	No Gas	4797211	0.99	4757365	100.84	70	120	
Bi	209	1	No Gas	4412656	1.57	4387752	100.57	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:11:02-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	28365	0.01
V	51	2	He	53947	0.00
Cr	52	2	He	62590	0.00
Fe	56	2	He	4842804	0.00
Se	78	2	He	1045	0.31
As	75	2	He	8899	0.05
Ca	44	2	He	32125	0.01
Na	23	2	He	899081	0.00
Mg	24	2	He	470990	0.00
K	39	2	He	734986	0.00
Mn	55	2	He	42781	0.00
Co	59	2	He	75949	0.00
Ni	60	2	He	20726	0.01
Cu	63	2	He	51900	0.00
Zn	66	2	He	12479	0.05
Al	27	2	He	14401	0.01
B	11	1	No Gas	86906	0.00
Al	27	1	No Gas	475636	0.00
Si	28	1	No Gas	1770518	0.00
Ag	107	1	No Gas	121997	0.00
Cd	111	1	No Gas	25829	0.01
Sr	88	1	No Gas	240983	0.00
Mo	95	1	No Gas	47923	0.01
Sn	118	1	No Gas	78887	0.00
Sb	121	1	No Gas	109035	0.00
Ba	137	1	No Gas	38935	0.00
Tl	205	1	No Gas	225112	0.00
Tl	203	1	No Gas	95551	0.00
Pb	208	1	No Gas	324935	0.00
U	238	1	No Gas	328263	0.00
Ca	43	2	He	1847	0.80
Sb	121	2	He	55347	0.00
Cu	63	1	No Gas	107470	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	1689084	2.40	1709693	98.79	70	120	
Ge	72	2	He	1347100	1.58	1348381	99.90	70	120	
Ge	72	1	No Gas	4060625	0.14	4032148	100.71	70	120	

Calibration Standard Report

In	115	1	No Gas	4694612	3.45	4757365	98.68	70	120	
Bi	209	1	No Gas	4429635	0.67	4387752	100.95	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:13:21-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	57477	0.00
V	51	2	He	98668	0.00
Cr	52	2	He	113536	0.00
Fe	56	2	He	9668427	0.00
Se	78	2	He	1746	0.23
As	75	2	He	17772	0.01
Ca	44	2	He	62767	0.00
Na	23	2	He	1698264	0.00
Mg	24	2	He	1029798	0.00
K	39	2	He	1426788	0.00
Mn	55	2	He	82009	0.00
Co	59	2	He	153254	0.00
Ni	60	2	He	38789	0.00
Cu	63	2	He	102770	0.00
Zn	66	2	He	22245	0.00
Al	27	2	He	16894	0.01
B	11	1	No Gas	163860	0.00
Al	27	1	No Gas	593458	0.00
Si	28	1	No Gas	2074863	0.00
Ag	107	1	No Gas	246945	0.00
Cd	111	1	No Gas	52428	0.00
Sr	88	1	No Gas	486485	0.00
Mo	95	1	No Gas	97986	0.00
Sn	118	1	No Gas	154206	0.00
Sb	121	1	No Gas	220029	0.00
Ba	137	1	No Gas	78963	0.00
Tl	205	1	No Gas	436691	0.00
Tl	203	1	No Gas	184109	0.00
Pb	208	1	No Gas	658571	0.00
U	238	1	No Gas	662864	0.00
Ca	43	2	He	3711	0.13
Sb	121	2	He	111744	0.00
Cu	63	1	No Gas	211796	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	1685601	0.48	1709693	98.59	70	120	
Ge	72	2	He	1323156	1.88	1348381	98.13	70	120	
Ge	72	1	No Gas	4039532	2.46	4032148	100.18	70	120	

Calibration Standard Report

In	115	1	No Gas	4713863	4.07	4757365	99.09	70	120	
Bi	209	1	No Gas	4430689	1.47	4387752	100.98	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:15:39-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	569044	0.00
V	51	2	He	889993	0.00
Cr	52	2	He	1081762	0.00
Fe	56	2	He	92802279	0.00
Se	78	2	He	15601	0.01
As	75	2	He	168735	0.00
Ca	44	2	He	592697	0.00
Na	23	2	He	14914967	0.00
Mg	24	2	He	9567299	0.00
K	39	2	He	11856042	0.00
Mn	55	2	He	789859	0.00
Co	59	2	He	1567148	0.00
Ni	60	2	He	371534	0.00
Cu	63	2	He	977620	0.00
Zn	66	2	He	196422	0.00
Al	27	2	He	73086	0.00
B	11	1	No Gas	1579668	0.00
Al	27	1	No Gas	2707625	0.00
Si	28	1	No Gas	7654096	0.00
Ag	107	1	No Gas	2455198	0.00
Cd	111	1	No Gas	501064	0.00
Sr	88	1	No Gas	4893615	0.00
Mo	95	1	No Gas	964242	0.00
Sn	118	1	No Gas	1564685	0.00
Sb	121	1	No Gas	2302198	0.00
Ba	137	1	No Gas	761223	0.00
Tl	205	1	No Gas	4662244	0.00
Tl	203	1	No Gas	2038415	0.00
Pb	208	1	No Gas	6958444	0.00
U	238	1	No Gas	7082138	0.00
Ca	43	2	He	35182	0.01
Sb	121	2	He	1106801	0.00
Cu	63	1	No Gas	2154795	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	1602833	1.43	1709693	93.75	70	120	
Ge	72	2	He	1272161	0.96	1348381	94.35	70	120	
Ge	72	1	No Gas	3977742	2.43	4032148	98.65	70	120	

Calibration Standard Report

In	115	1	No Gas	4543731	0.62	4757365	95.51	70	120	
Bi	209	1	No Gas	4222564	0.71	4387752	96.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:17:51-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1131231	0.00
V	51	2	He	1927272	0.00
Cr	52	2	He	2066538	0.00
Fe	56	2	He	186253504	0.00
Se	78	2	He	31086	0.00
As	75	2	He	337649	0.00
Ca	44	2	He	1288154	0.00
Na	23	2	He	29556760	0.00
Mg	24	2	He	18979498	0.00
K	39	2	He	23527133	0.00
Mn	55	2	He	1705878	0.00
Co	59	2	He	2961193	0.00
Ni	60	2	He	741345	0.00
Cu	63	2	He	2074284	0.00
Zn	66	2	He	390536	0.00
Al	27	2	He	134635	0.00
B	11	1	No Gas	2967869	0.00
Al	27	1	No Gas	4714191	0.00
Si	28	1	No Gas	13584913	0.00
Ag	107	1	No Gas	4674129	0.00
Cd	111	1	No Gas	989521	0.00
Sr	88	1	No Gas	9456372	0.00
Mo	95	1	No Gas	1980853	0.00
Sn	118	1	No Gas	3045901	0.00
Sb	121	1	No Gas	4468555	0.00
Ba	137	1	No Gas	1625677	0.00
Tl	205	1	No Gas	8942398	0.00
Tl	203	1	No Gas	3872987	0.00
Pb	208	1	No Gas	13487403	0.00
U	238	1	No Gas	13805363	0.00
Ca	43	2	He	69355	0.00
Sb	121	2	He	2439227	0.00
Cu	63	1	No Gas	4071905	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	1485933	3.18	1709693	86.91	70	120	
Ge	72	2	He	1258140	1.75	1348381	93.31	70	120	
Ge	72	1	No Gas	3853892	1.15	4032148	95.58	70	120	

Calibration Standard Report

In	115	1	No Gas	4396916	1.01	4757365	92.42	70	120	
Bi	209	1	No Gas	4073810	0.41	4387752	92.85	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:24:54-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	517795	0.00
V	51	2	He	894244	0.00
Cr	52	2	He	1106000	0.00
Fe	56	2	He	93466469	0.00
Se	78	2	He	15542	0.01
As	75	2	He	168336	0.00
Ca	44	2	He	600463	0.00
Na	23	2	He	15033649	0.00
Mg	24	2	He	9705405	0.00
K	39	2	He	11818678	0.00
Mn	55	2	He	786309	0.00
Co	59	2	He	1562971	0.00
Ni	60	2	He	370363	0.00
Cu	63	2	He	976708	0.00
Zn	66	2	He	196936	0.00
Al	27	2	He	73661	0.00
B	11	1	No Gas	1450734	0.00
Al	27	1	No Gas	2638364	0.00
Si	28	1	No Gas	7446413	0.00
Ag	107	1	No Gas	2314950	0.00
Cd	111	1	No Gas	469452	0.00
Sr	88	1	No Gas	4689166	0.00
Mo	95	1	No Gas	901940	0.00
Sn	118	1	No Gas	1443504	0.00
Sb	121	1	No Gas	2124150	0.00
Ba	137	1	No Gas	707006	0.00
Tl	205	1	No Gas	4318733	0.00
Tl	203	1	No Gas	1856215	0.00
Pb	208	1	No Gas	6500702	0.00
U	238	1	No Gas	6595895	0.00
Ca	43	2	He	34902	0.01
Sb	121	2	He	1067604	0.00
Cu	63	1	No Gas	2056435	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	1428064	0.48	1709693	83.53	70	120	
Ge	72	2	He	1300214	1.38	1348381	96.43	70	120	
Ge	72	1	No Gas	3752174	2.13	4032148	93.06	70	120	

Calibration Standard Report

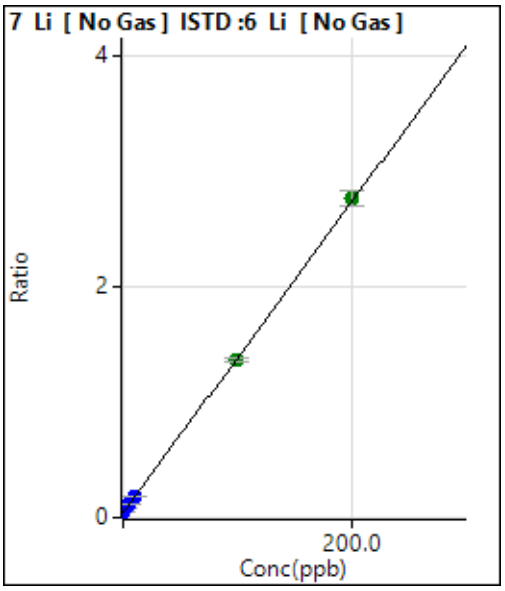
In	115	1	No Gas	4225958	1.89	4757365	88.83	70	120	
Bi	209	1	No Gas	3974119	2.41	4387752	90.57	70	120	

Calibration for 019CALS.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\041724A.b\
Analysis File: 041724A.batch.bin
DA Date-Time: 4/17/2024 6:33:14 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	012CALB.d	CAL BLK	4/17/2024 10:06:23 AM
2	013CALS.d	2/10/200	4/17/2024 10:08:43 AM
3	014CALS.d	5/25/500	4/17/2024 10:11:02 AM
4	015CALS.d	10/50/100	4/17/2024 10:13:21 AM
5	016CALS.d	100/500/10K	4/17/2024 10:15:39 AM
6	017CALS.d	200/1000/20K	4/17/2024 10:17:51 AM

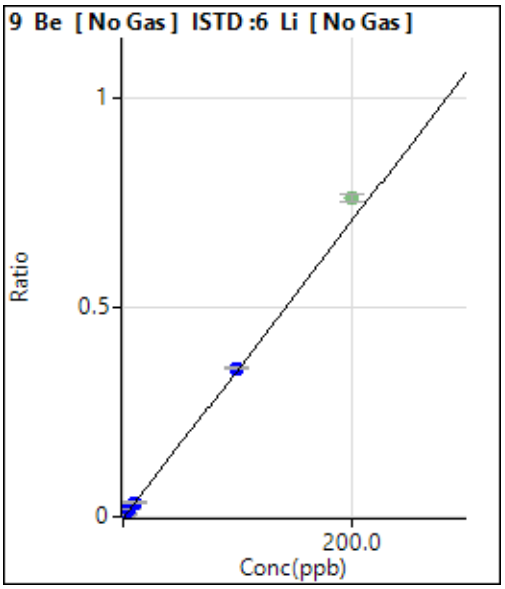
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95175.76	0.0557	P	1.2	
2	☐	2.000	1.824	135031.50	0.0802	P	2.4	-8.8
3	☐	5.000	4.454	195268.23	0.1156	P	2.0	-10.9
4	☐	10.000	9.004	298141.90	0.1769	P	1.7	-10.0
5	☐	100.000	97.363	2190067.05	1.3664	A	2.1	-2.6
6	☐	200.000	201.384	4107005.67	2.7667	A	4.7	0.7

y = 0.0135 * x + 0.0557
R = 0.9999
DL = 0.1429 ppb
BEC = 4.136 ppb

Weight: <None>
Min Conc: <None>

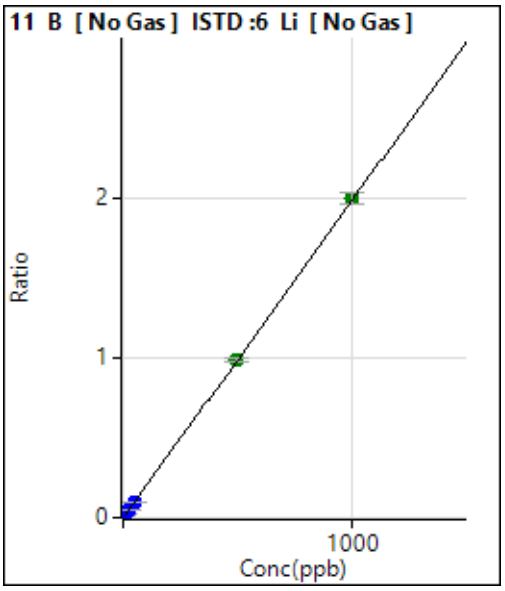


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0001	P	31.7	
2	☐	2.000	1.916	11521.46	0.0068	P	4.0	-4.2
3	☐	5.000	4.721	28365.34	0.0168	P	3.9	-5.6
4	☐	10.000	9.597	57476.97	0.0341	P	2.6	-4.0
5	☐	100.000	100.056	569044.38	0.3551	P	1.3	0.1
6	☑	200.000		1131231.39	0.7616	A	2.4	

y = 0.0035 * x + 5.0522E-005
R = 1.0000
DL = 0.01354 ppb
BEC = 0.01424 ppb

Weight: <None>
Min Conc: <None>

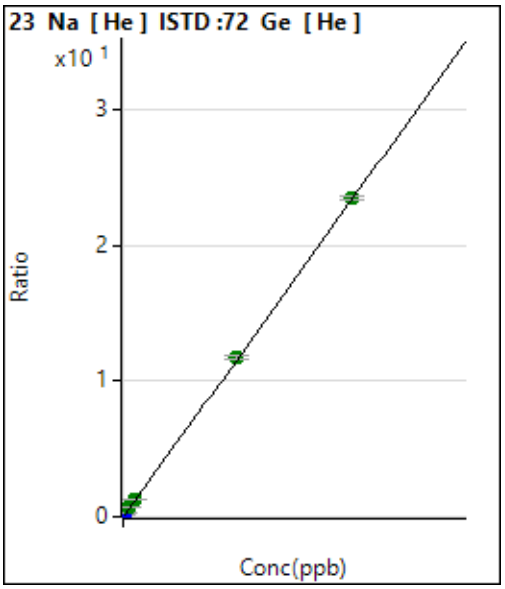
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13793.54	0.0081	P	3.6	
2	☐	10.000	8.943	43433.77	0.0258	P	2.5	-10.6
3	☐	25.000	21.882	86905.65	0.0515	P	1.6	-12.5
4	☐	50.000	44.953	163860.38	0.0972	P	1.3	-10.1
5	☐	500.000	492.942	1579668.15	0.9856	A	1.8	-1.4
6	☐	1000.000	1003.870	2967869.43	1.9988	A	3.5	0.4

y = 0.0020 * x + 0.0081
R = 1.0000
DL = 0.4348 ppb
BEC = 4.07 ppb

Weight: <None>
Min Conc: <None>

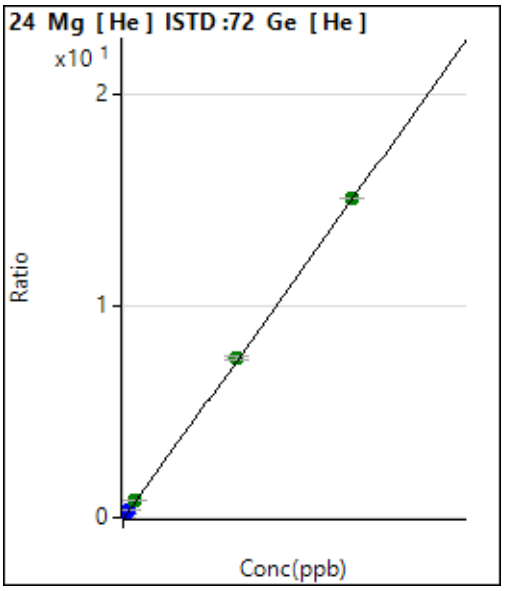


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106443.38	0.0789	P	1.4	
2	☐	200.000	185.185	398920.32	0.2955	P	2.7	-7.4
3	☐	500.000	503.460	899080.51	0.6677	A	4.5	0.7
4	☐	1000.000	1029.960	1698264.35	1.2835	A	0.3	3.0
5	☐	10000.00	9958.918	14914966.86	11.7257	A	2.2	-0.4
6	☐	20000.00	20019.10	29556759.56	23.4909	A	0.7	0.1

y = 0.0012 * x + 0.0789
R = 1.0000
DL = 2.87 ppb
BEC = 67.51 ppb

Weight: <None>
Min Conc: <None>

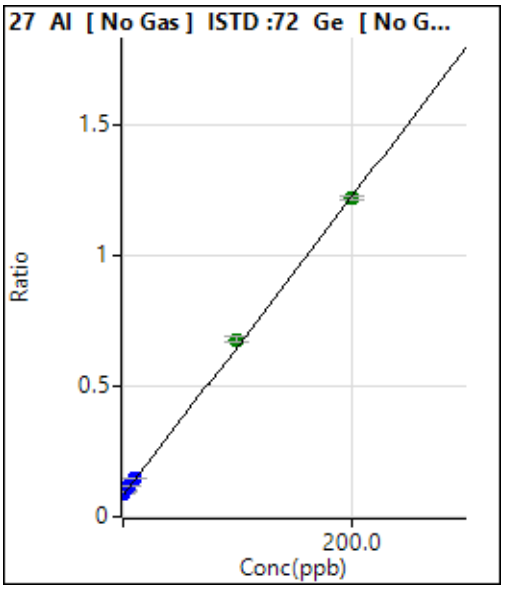
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1583.45	0.0012	P	6.2	
2	☐	200.000	183.314	188110.41	0.1394	P	3.0	-8.3
3	☐	500.000	462.421	470990.24	0.3497	P	3.1	-7.5
4	☐	1000.000	1031.080	1029797.59	0.7784	A	1.3	3.1
5	☐	10000.00	9976.969	9567299.44	7.5217	A	2.4	-0.2
6	☐	20000.00	20011.06	18979498.05	15.0852	A	0.3	0.1

y = 7.5379E-004 * x + 0.0012
R = 1.0000
DL = 0.2907 ppb
BEC = 1.558 ppb

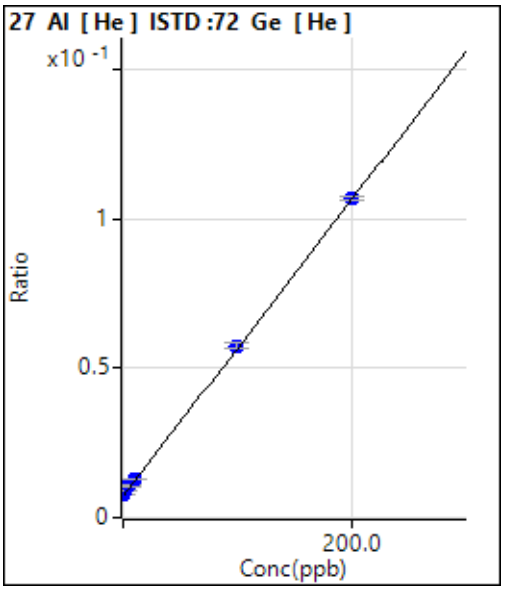
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	354510.44	0.0879	P	1.0	
2	☐	2.000	2.065	404961.53	0.0998	P	2.3	3.3
3	☐	5.000	5.099	475636.40	0.1171	P	1.1	2.0
4	☐	10.000	10.308	593457.70	0.1470	P	2.5	3.1
5	☐	100.000	103.542	2707625.37	0.6811	A	3.7	3.5
6	☐	200.000	198.210	4714191.28	1.2234	A	1.4	-0.9

y = 0.0057 * x + 0.0879
R = 0.9998
DL = 0.4458 ppb
BEC = 15.35 ppb

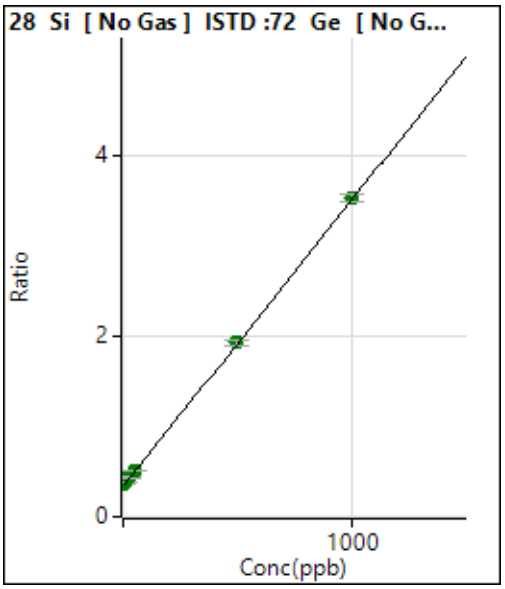
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10430.74	0.0077	P	4.4	
2	☐	2.000	2.310	11992.00	0.0089	P	2.4	15.5
3	☐	5.000	5.958	14401.00	0.0107	P	2.5	19.2
4	☐	10.000	10.141	16893.84	0.0128	P	1.7	1.4
5	☐	100.000	100.141	73085.66	0.0575	P	3.0	0.1
6	☐	200.000	199.895	134634.81	0.1070	P	1.3	-0.1

y = 4.9656E-004 * x + 0.0077
R = 1.0000
DL = 2.035 ppb
BEC = 15.58 ppb

Weight: <None>
Min Conc: <None>

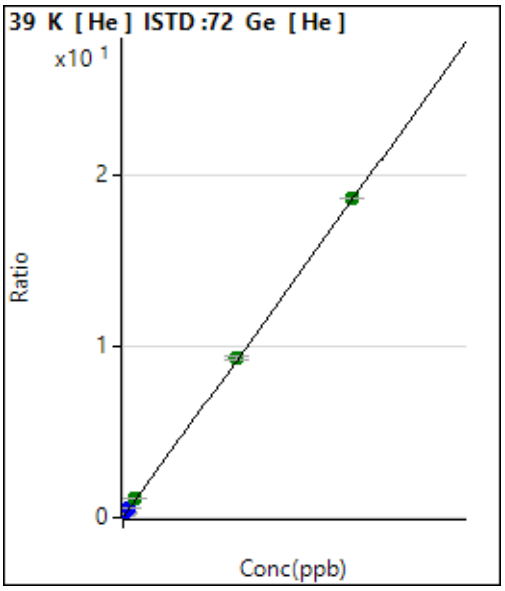


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1429408.31	0.3545	A	0.8	
2	☐	10.000	8.784	1552261.33	0.3823	A	2.8	-12.2
3	☐	25.000	25.753	1770518.20	0.4360	A	2.2	3.0
4	☐	50.000	50.317	2074862.63	0.5138	A	1.8	0.6
5	☐	500.000	496.269	7654096.34	1.9254	A	3.7	-0.7
6	☐	1000.000	1001.843	13584913.13	3.5257	A	2.8	0.2

y = 0.0032 * x + 0.3545
R = 1.0000
DL = 2.819 ppb
BEC = 112 ppb

Weight: <None>
Min Conc: <None>

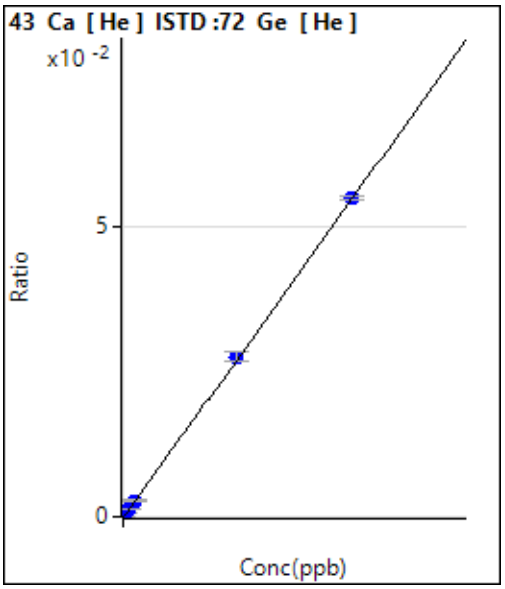
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147954.16	0.1097	P	1.5	
2	☐	200.000	187.577	383047.99	0.2838	P	3.5	-6.2
3	☐	500.000	469.925	734986.03	0.5458	P	2.9	-6.0
4	☐	1000.000	1043.851	1426788.16	1.0783	A	0.4	4.4
5	☐	10000.00	9927.150	11856041.91	9.3208	A	2.0	-0.7
6	☐	20000.00	20035.10	2352132.98	18.6996	A	0.3	0.2

y = 9.2787E-004 * x + 0.1097
R = 1.0000
DL = 5.323 ppb
BEC = 118.3 ppb

Weight: <None>
Min Conc: <None>

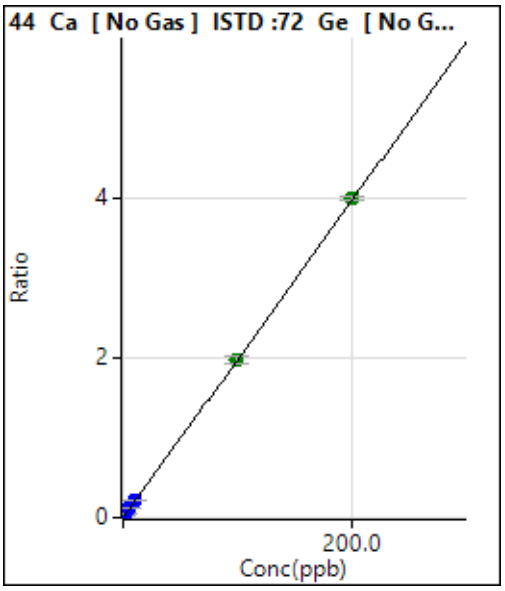


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	55.1	
2	☐	200.000	199.801	816.71	0.0006	P	11.2	-0.1
3	☐	500.000	477.366	1846.82	0.0014	P	13.5	-4.5
4	☐	1000.000	998.095	3710.57	0.0028	P	4.2	-0.2
5	☐	10000.00	10022.24	35182.10	0.0277	P	6.0	0.2
6	☐	20000.00	19989.53	69354.61	0.0551	P	1.1	-0.1

y = 2.7550E-006 * x + 5.4457E-005
R = 1.0000
DL = 32.7 ppb
BEC = 19.77 ppb

Weight: <None>
Min Conc: <None>

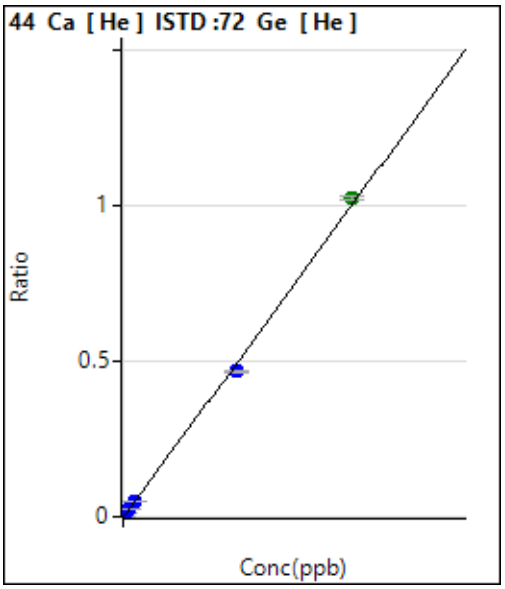
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	68694.99	0.0170	P	1.3	
2	☐	2.000	1.942	225462.17	0.0555	P	0.9	-2.9
3	☐	5.000	4.764	452678.16	0.1115	P	1.3	-4.7
4	☐	10.000	9.721	846875.93	0.2097	P	2.4	-2.8
5	☐	100.000	98.790	7852657.59	1.9753	A	3.9	-1.2
6	☐	200.000	200.626	15390356.85	3.9939	A	1.7	0.3

y = 0.0198 * x + 0.0170
R = 1.0000
DL = 0.03225 ppb
BEC = 0.8595 ppb

Weight: <None>
Min Conc: <None>

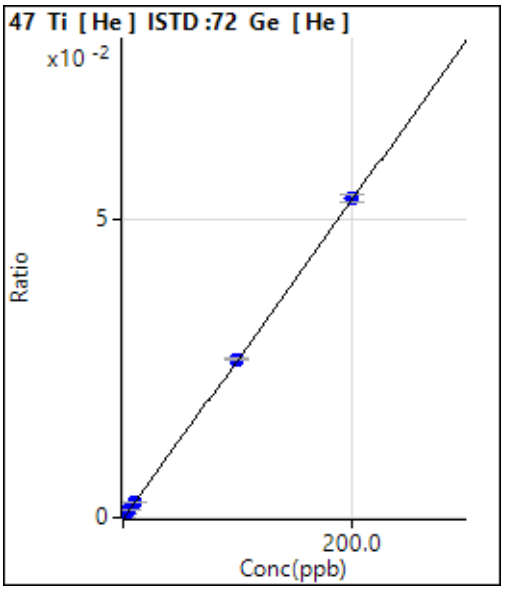


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1843.50	0.0014	P	6.0	
2	☐	200.000	173.638	13606.95	0.0101	P	1.7	-13.2
3	☐	500.000	448.250	32124.56	0.0239	P	3.8	-10.4
4	☐	1000.000	918.292	62766.72	0.0474	P	2.4	-8.2
5	☐	10000.00	9259.837	592696.54	0.4660	P	1.9	-7.4
6	☐	20000.00	20375.72	1288153.55	1.0237	A	1.8	1.9

y = 5.0172E-005 * x + 0.0014
R = 0.9991
DL = 4.883 ppb
BEC = 27.25 ppb

Weight: <None>
Min Conc: <None>

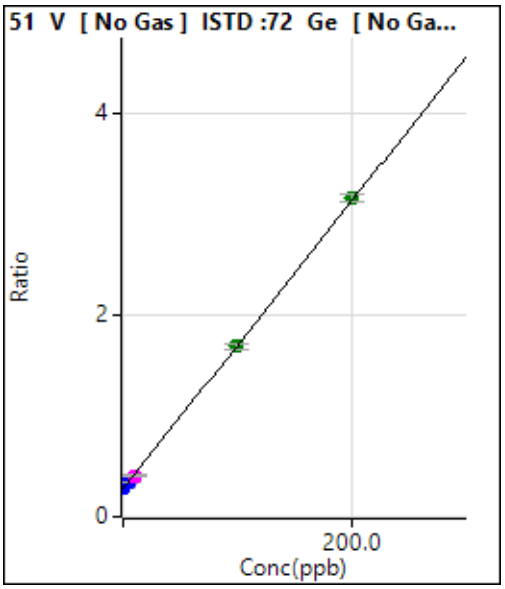
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.1	
2	☐	2.000	2.055	760.03	0.0006	P	2.5	2.8
3	☐	5.000	4.711	1716.81	0.0013	P	0.7	-5.8
4	☐	10.000	9.784	3483.83	0.0026	P	2.1	-2.2
5	☐	100.000	99.345	33872.04	0.0266	P	1.9	-0.7
6	☐	200.000	200.345	67532.69	0.0537	P	1.9	0.2

y = 2.6792E-004 * x + 1.2352E-005
R = 1.0000
DL = 0.09558 ppb
BEC = 0.0461 ppb

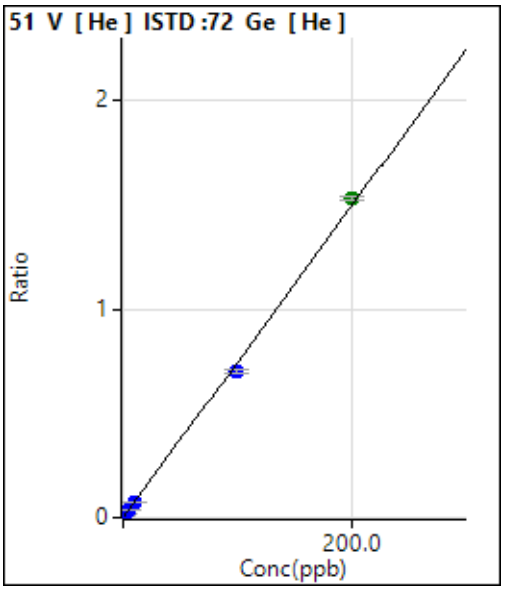
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1190714.68	0.2953	P	0.6	
2	☐	2.000	1.676	1296216.99	0.3192	P	0.9	-16.2
3	☐	5.000	3.581	1406832.93	0.3465	P	2.0	-28.4
4	☐	10.000	7.996	1654464.99	0.4095	M	1.6	-20.0
5	☐	100.000	98.013	6741494.65	1.6957	A	3.3	-2.0
6	☐	200.000	201.133	12211982.32	3.1691	A	1.9	0.6

y = 0.0143 * x + 0.2953
R = 0.9999
DL = 0.3976 ppb
BEC = 20.67 ppb

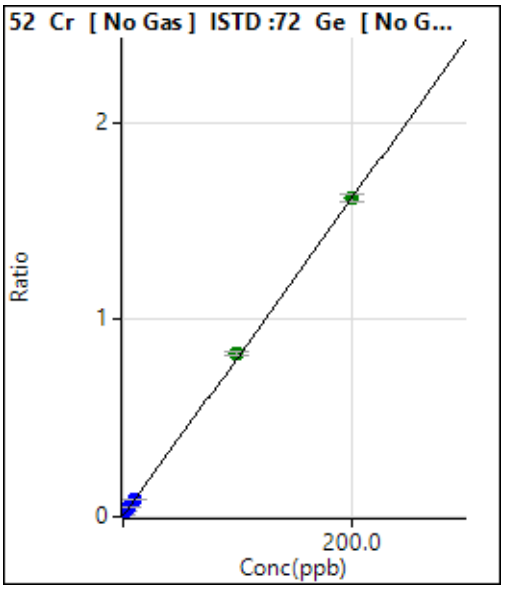
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10542.99	0.0078	P	2.5	
2	☐	2.000	1.752	28240.24	0.0209	P	2.9	-12.4
3	☐	5.000	4.312	53946.91	0.0401	P	2.6	-13.8
4	☐	10.000	8.930	98667.59	0.0746	P	2.3	-10.7
5	☐	100.000	92.530	889993.16	0.6997	P	1.9	-7.5
6	☐	200.000	203.808	1927271.59	1.5317	A	0.8	1.9

y = 0.0075 * x + 0.0078
R = 0.9991
DL = 0.07744 ppb
BEC = 1.046 ppb

Weight: <None>
Min Conc: <None>

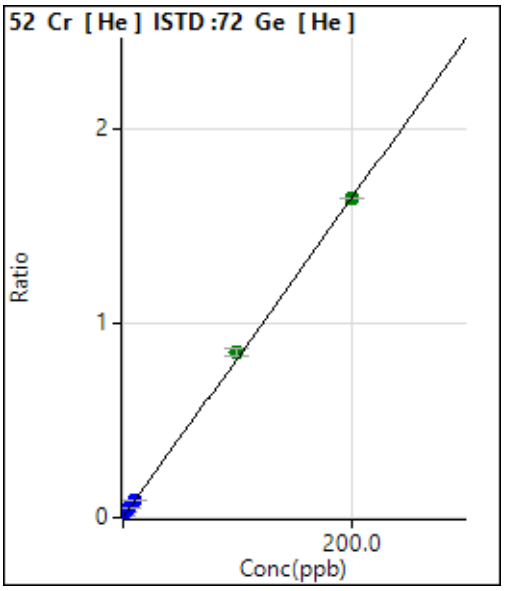


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46991.05	0.0117	P	1.8	
2	☐	2.000	1.948	111007.42	0.0273	P	0.5	-2.6
3	☐	5.000	4.826	205061.82	0.0505	P	3.0	-3.5
4	☐	10.000	9.796	365430.58	0.0905	P	3.1	-2.0
5	☐	100.000	101.452	3293074.32	0.8283	A	3.1	1.5
6	☐	200.000	199.289	6226118.45	1.6158	A	2.4	-0.4

y = 0.0080 * x + 0.0117
R = 1.0000
DL = 0.07968 ppb
BEC = 1.448 ppb

Weight: <None>
Min Conc: <None>

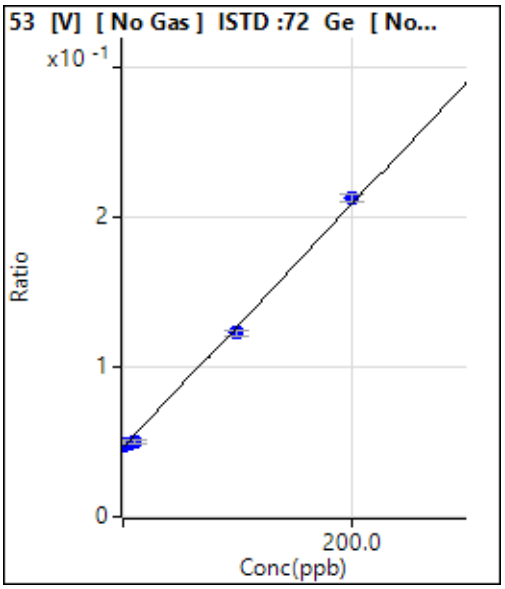
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13036.46	0.0097	P	1.5	
2	☐	2.000	1.874	33832.08	0.0251	P	0.3	-6.3
3	☐	5.000	4.482	62590.09	0.0465	P	1.9	-10.4
4	☐	10.000	9.275	113535.51	0.0858	P	2.9	-7.2
5	☐	100.000	102.396	1081761.91	0.8504	A	3.8	2.4
6	☐	200.000	198.853	2066537.94	1.6424	A	0.5	-0.6

y = 0.0082 * x + 0.0097
R = 0.9999
DL = 0.05376 ppb
BEC = 1.177 ppb

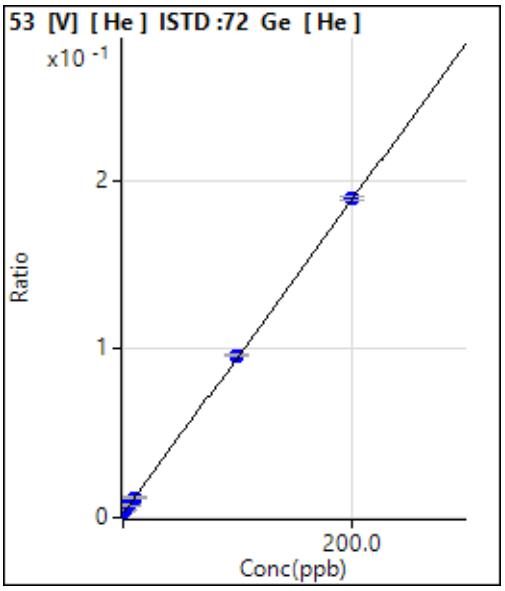
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	192102.19	0.0476	P	0.7	
2	☐	2.000	1.336	197849.79	0.0487	P	0.6	-33.2
3	☐	5.000	1.669	198952.68	0.0490	P	2.1	-66.6
4	☐	10.000	2.905	201823.47	0.0500	P	4.5	-71.0
5	☐	100.000	92.686	488382.62	0.1228	P	3.4	-7.3
6	☐	200.000	204.102	821737.41	0.2132	P	1.9	2.1

y = 8.1139E-004 * x + 0.0476
R = 0.9988
DL = 1.197 ppb
BEC = 58.72 ppb

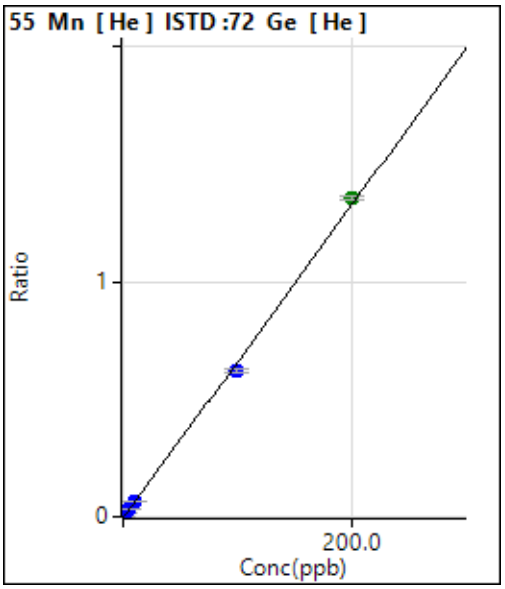
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4430.80	0.0033	P	0.8	
2	☐	2.000	1.887	6805.17	0.0050	P	2.6	-5.6
3	☐	5.000	4.479	10030.51	0.0074	P	2.7	-10.4
4	☐	10.000	9.300	15779.34	0.0119	P	0.9	-7.0
5	☐	100.000	99.627	121907.45	0.0958	P	1.3	-0.4
6	☐	200.000	200.236	238173.26	0.1893	P	1.2	0.1

y = 9.2894E-004 * x + 0.0033
R = 1.0000
DL = 0.08138 ppb
BEC = 3.537 ppb

Weight: <None>
Min Conc: <None>

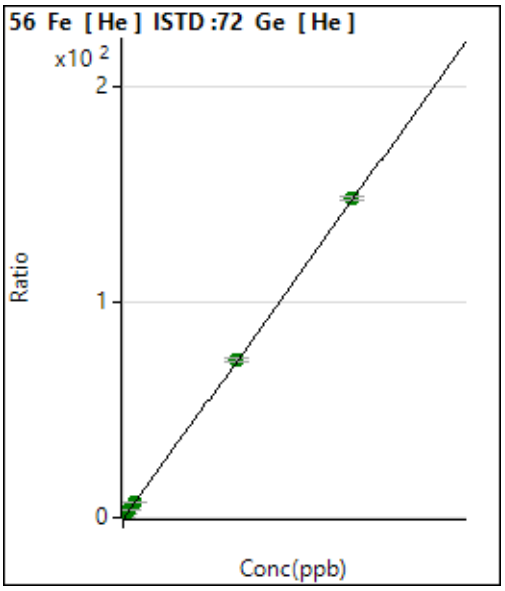


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.79	0.0011	P	13.1	
2	☐	2.000	1.895	18519.54	0.0137	P	3.9	-5.3
3	☐	5.000	4.605	42780.66	0.0318	P	2.0	-7.9
4	☐	10.000	9.144	82009.18	0.0620	P	1.6	-8.6
5	☐	100.000	93.093	789859.11	0.6209	P	1.9	-6.9
6	☐	200.000	203.507	1705877.74	1.3561	A	1.6	1.8

y = 0.0067 * x + 0.0011
R = 0.9992
DL = 0.06489 ppb
BEC = 0.1655 ppb

Weight: <None>
Min Conc: <None>

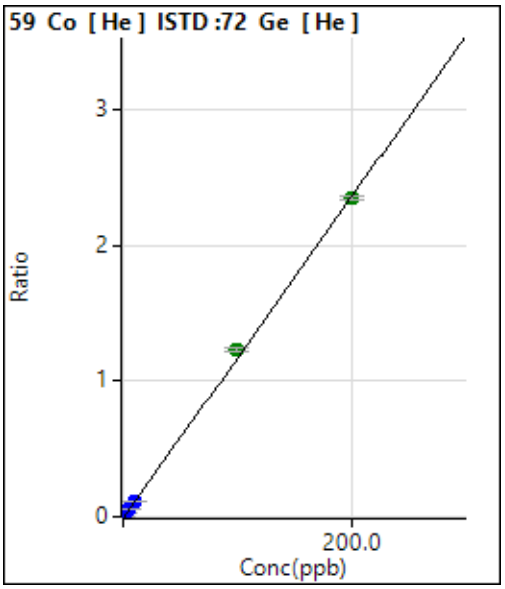
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50025.37	0.0371	P	0.9	
2	☐	200.000	199.360	2036210.70	1.5082	A	1.0	-0.3
3	☐	500.000	482.344	4842803.78	3.5963	A	3.8	-3.5
4	☐	1000.000	985.442	9668426.73	7.3086	A	2.0	-1.5
5	☐	10000.00	9882.052	92802278.62	72.9560	A	2.3	-1.2
6	☐	20000.00	20060.15	186253503.8	148.059	A	1.6	0.3

y = 0.0074 * x + 0.0371
R = 1.0000
DL = 0.137 ppb
BEC = 5.028 ppb

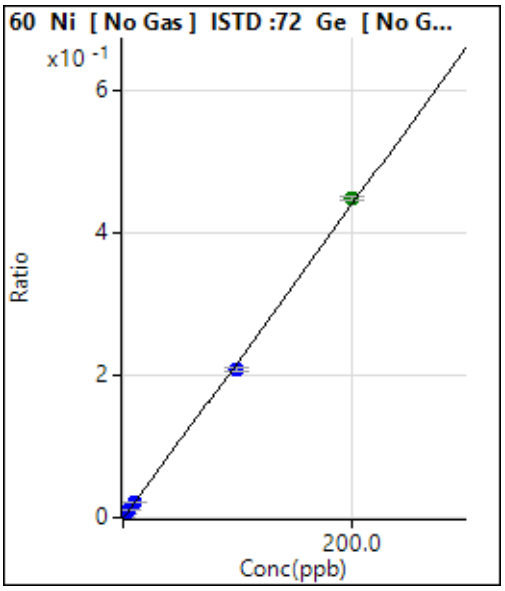
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0001	P	8.4	
2	☐	2.000	1.896	30567.96	0.0226	P	2.4	-5.2
3	☐	5.000	4.737	75948.52	0.0564	P	4.0	-5.3
4	☐	10.000	9.743	153253.99	0.1158	P	2.0	-2.6
5	☐	100.000	103.710	1567147.89	1.2320	A	2.4	3.7
6	☐	200.000	198.165	2961193.39	2.3540	A	1.3	-0.9

y = 0.0119 * x + 1.2355E-004
R = 0.9997
DL = 0.002627 ppb
BEC = 0.0104 ppb

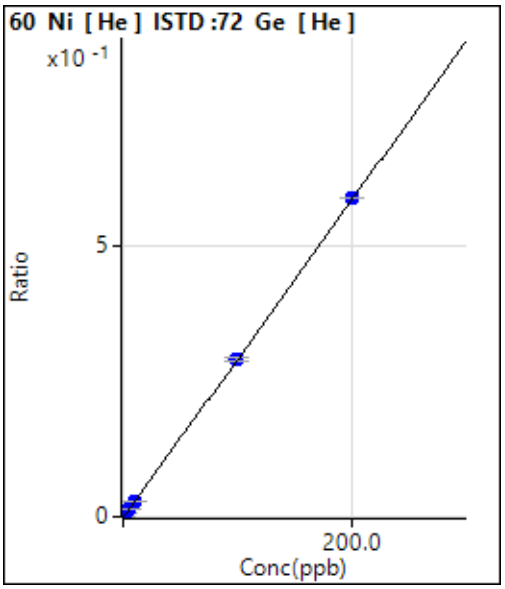
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2423.59	0.0006	P	8.7	
2	☐	2.000	1.931	19758.08	0.0049	P	2.5	-3.4
3	☐	5.000	4.912	46476.56	0.0114	P	1.8	-1.8
4	☐	10.000	9.641	88355.96	0.0219	P	4.8	-3.6
5	☐	100.000	93.696	824999.68	0.2075	P	2.5	-6.3
6	☐	200.000	203.173	1731100.08	0.4492	A	1.3	1.6

y = 0.0022 * x + 6.0078E-004
R = 0.9993
DL = 0.07102 ppb
BEC = 0.2721 ppb

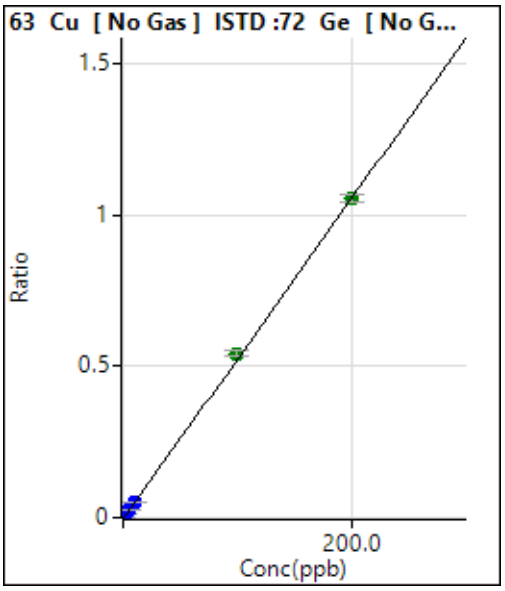
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1040.06	0.0008	P	7.8	
2	☐	2.000	1.940	8732.92	0.0065	P	2.2	-3.0
3	☐	5.000	4.978	20726.10	0.0154	P	3.2	-0.4
4	☐	10.000	9.723	38789.08	0.0293	P	1.9	-2.8
5	☐	100.000	99.207	371534.29	0.2921	P	2.3	-0.8
6	☐	200.000	200.411	741345.48	0.5892	P	0.5	0.2

y = 0.0029 * x + 7.7145E-004
R = 1.0000
DL = 0.06113 ppb
BEC = 0.2627 ppb

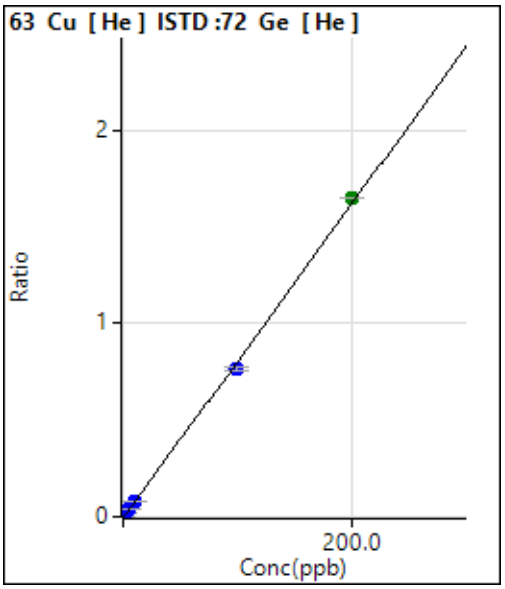
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3170.43	0.0008	P	6.5	
2	☐	2.000	1.940	44978.15	0.0111	P	1.9	-3.0
3	☐	5.000	4.841	107469.78	0.0265	P	2.1	-3.2
4	☐	10.000	9.740	211796.09	0.0525	P	3.3	-2.6
5	☐	100.000	102.019	2154795.02	0.5420	A	3.7	2.0
6	☐	200.000	199.008	4071905.25	1.0566	A	2.0	-0.5

y = 0.0053 * x + 7.8602E-004
R = 0.9999
DL = 0.02875 ppb
BEC = 0.1482 ppb

Weight: <None>
Min Conc: <None>

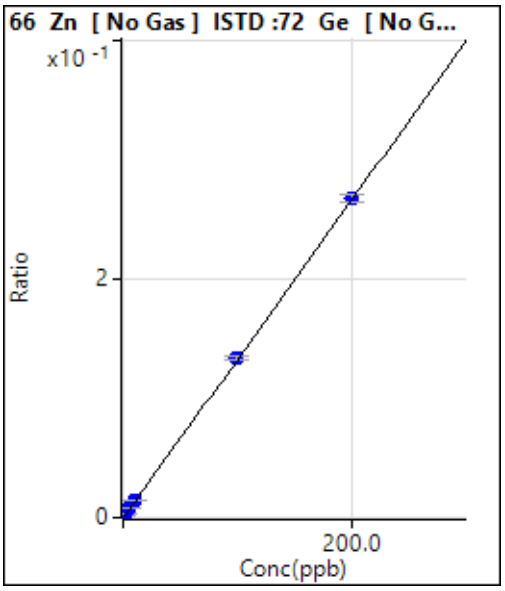


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1423.44	0.0011	P	2.3	
2	☐	2.000	1.837	21567.45	0.0160	P	2.8	-8.2
3	☐	5.000	4.613	51899.59	0.0385	P	2.4	-7.7
4	☐	10.000	9.431	102770.45	0.0777	P	0.9	-5.7
5	☐	100.000	94.472	977620.11	0.7686	P	2.5	-5.5
6	☐	200.000	202.804	2074284.08	1.6487	A	0.6	1.4

y = 0.0081 * x + 0.0011
R = 0.9995
DL = 0.008863 ppb
BEC = 0.1299 ppb

Weight: <None>
Min Conc: <None>

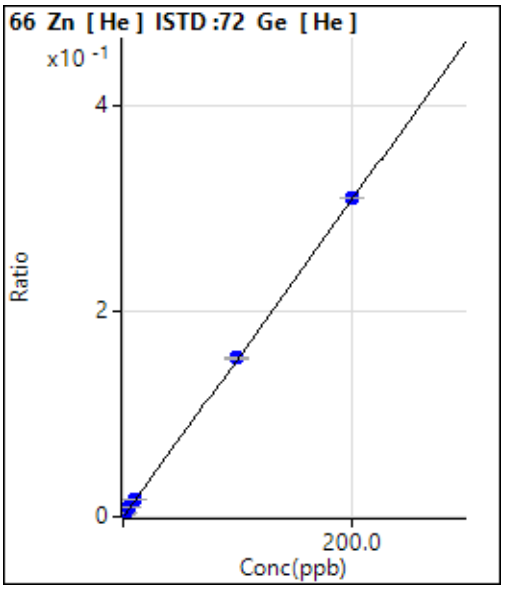
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3637.23	0.0009	P	8.0	
2	☐	2.000	1.977	14354.51	0.0035	P	4.6	-1.1
3	☐	5.000	5.656	34246.95	0.0084	P	3.7	13.1
4	☐	10.000	10.094	57906.89	0.0143	P	3.9	0.9
5	☐	100.000	99.714	531540.96	0.1337	P	2.5	-0.3
6	☐	200.000	200.122	1030356.73	0.2674	P	2.0	0.1

y = 0.0013 * x + 9.0230E-004
R = 1.0000
DL = 0.1621 ppb
BEC = 0.6776 ppb

Weight: <None>
Min Conc: <None>

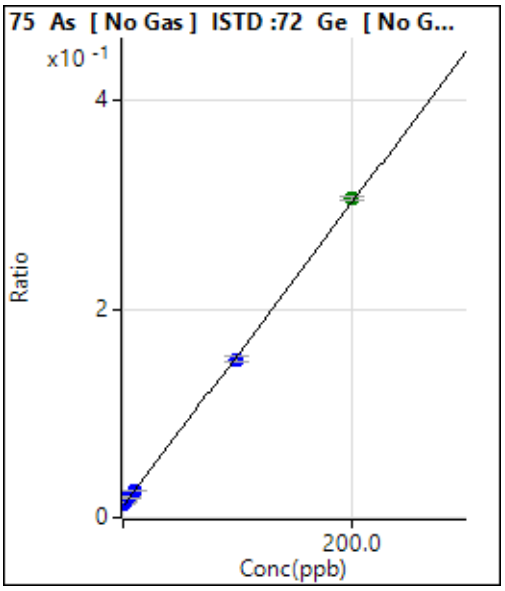


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1533.45	0.0011	P	14.9	
2	☐	2.000	1.930	5554.56	0.0041	P	4.4	-3.5
3	☐	5.000	5.270	12479.28	0.0093	P	8.0	5.4
4	☐	10.000	10.157	22245.23	0.0168	P	1.6	1.6
5	☐	100.000	99.296	196421.96	0.1544	P	2.2	-0.7
6	☐	200.000	200.338	390535.85	0.3104	P	0.4	0.2

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.3296 ppb
BEC = 0.7361 ppb

Weight: <None>
Min Conc: <None>

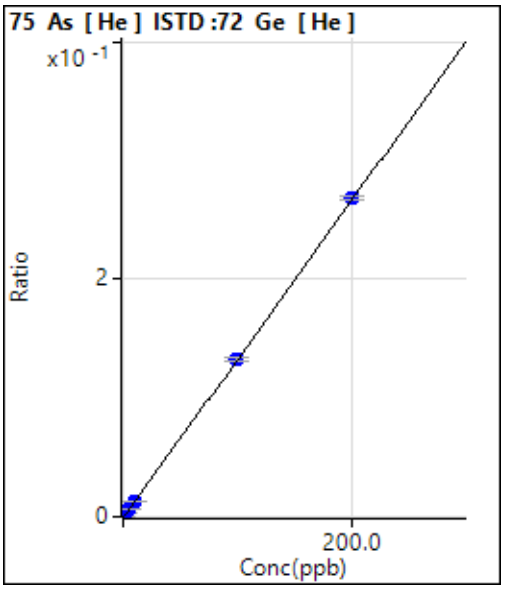
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50561.89	0.0125	P	0.5	
2	☐	2.000	2.122	63436.01	0.0156	P	1.8	6.1
3	☐	5.000	4.709	78725.94	0.0194	P	0.9	-5.8
4	☐	10.000	9.400	105822.69	0.0262	P	3.1	-6.0
5	☐	100.000	95.960	604703.09	0.1521	P	2.7	-4.0
6	☐	200.000	202.056	1180604.80	0.3064	A	1.7	1.0

y = 0.0015 * x + 0.0125
R = 0.9997
DL = 0.1348 ppb
BEC = 8.623 ppb

Weight: <None>
Min Conc: <None>

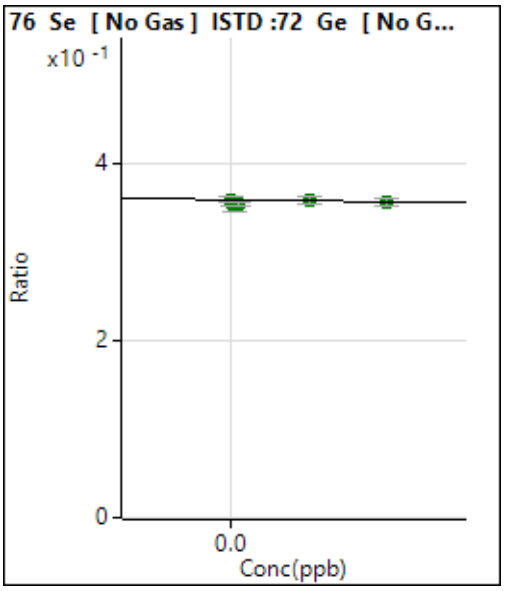


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	430.01	0.0003	P	15.6	
2	☐	2.000	1.849	3767.21	0.0028	P	5.7	-7.5
3	☐	5.000	4.706	8898.52	0.0066	P	6.2	-5.9
4	☐	10.000	9.808	17771.77	0.0134	P	0.2	-1.9
5	☐	100.000	98.983	168735.38	0.1326	P	1.5	-1.0
6	☐	200.000	200.527	337649.23	0.2684	P	1.2	0.3

y = 0.0013 * x + 3.1915E-004
R = 1.0000
DL = 0.1114 ppb
BEC = 0.2387 ppb

Weight: <None>
Min Conc: <None>

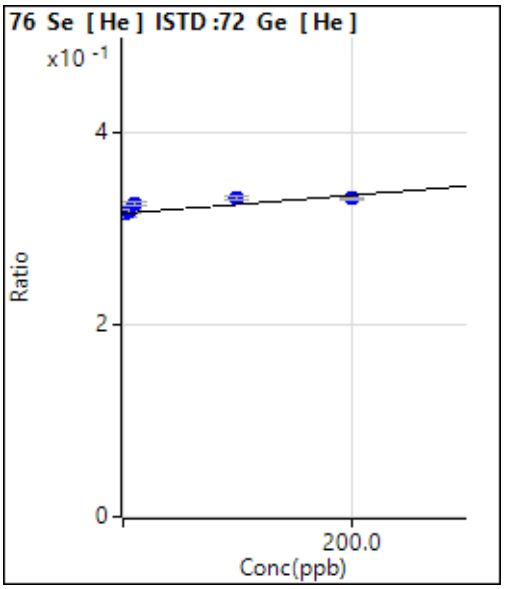
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1450020.97	0.3596	A	2.1	
2	☐	2.000	425.174	1440047.84	0.3547	A	1.3	21158.
3	☐	5.000	701.337	1427266.91	0.3515	A	2.6	13926.
4	☐	10.000	373.099	1435287.48	0.3553	A	1.0	3631.0
5	☐	100.000	46.508	1427882.43	0.3591	A	2.6	-53.5
6	☐	200.000	186.951	1377487.53	0.3575	A	2.5	-6.5

y = -1.1632E-005 * x + 0.3596
R = 0.3842
DL = -1909 ppb
BEC = -3.092E+04 ppb

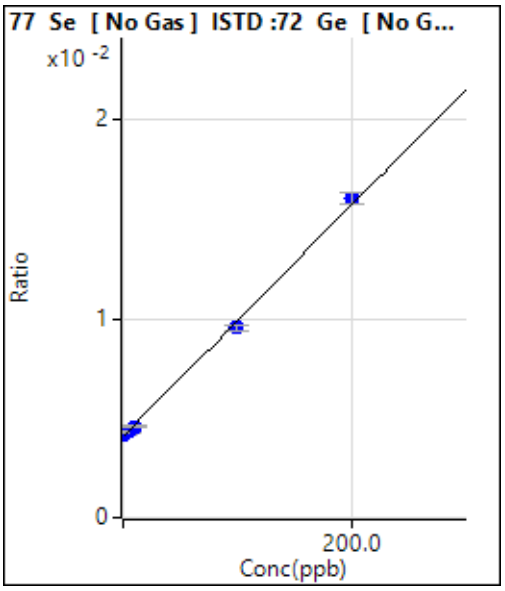
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426056.53	0.3160	P	0.3	
2	☐	2.000	-3.917	426058.55	0.3156	P	2.0	-295.9
3	☐	5.000	29.686	429410.88	0.3188	P	1.5	493.7
4	☐	10.000	104.007	431183.57	0.3259	P	1.6	940.1
5	☐	100.000	169.018	422545.74	0.3322	P	0.8	69.0
6	☐	200.000	160.233	416808.56	0.3313	P	1.0	-19.9

y = 9.5802E-005 * x + 0.3160
R = 0.8065
DL = 31.81 ppb
BEC = 3298 ppb

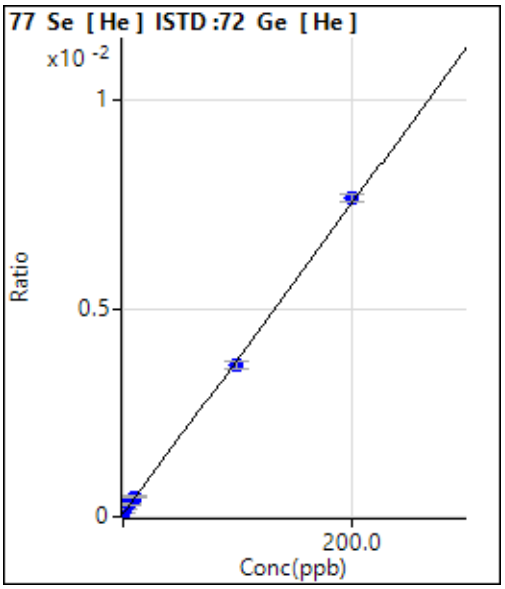
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16870.85	0.0042	P	3.2	
2	☐	2.000	0.562	17114.50	0.0042	P	4.6	-71.9
3	☐	5.000	2.623	17608.50	0.0043	P	2.2	-47.5
4	☐	10.000	6.645	18456.25	0.0046	P	1.5	-33.6
5	☐	100.000	91.922	37853.55	0.0095	P	3.6	-8.1
6	☐	200.000	204.280	61818.86	0.0160	P	3.5	2.1

y = 5.8048E-005 * x + 0.0042
R = 0.9990
DL = 6.861 ppb
BEC = 72.08 ppb

Weight: <None>
Min Conc: <None>

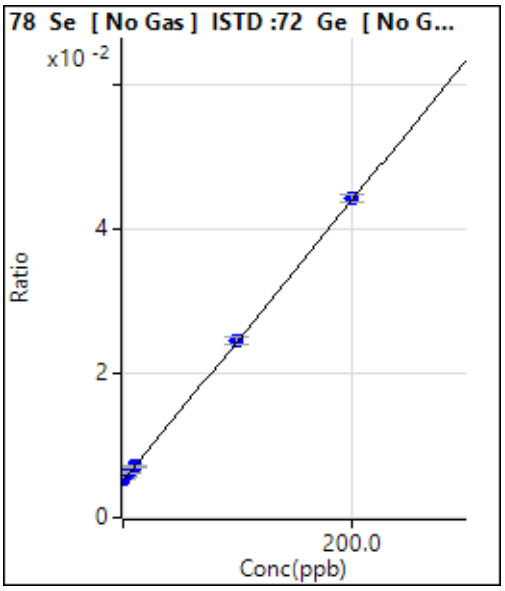


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	6.9	
2	☐	2.000	1.851	233.34	0.0002	P	6.4	-7.5
3	☐	5.000	5.522	416.68	0.0003	P	20.0	10.4
4	☐	10.000	10.060	633.36	0.0005	P	4.8	0.6
5	☐	100.000	94.672	4620.87	0.0036	P	4.4	-5.3
6	☐	200.000	202.650	9633.59	0.0077	P	1.8	1.3

y = 3.7278E-005 * x + 1.0382E-004
R = 0.9995
DL = 0.5777 ppb
BEC = 2.785 ppb

Weight: <None>
Min Conc: <None>

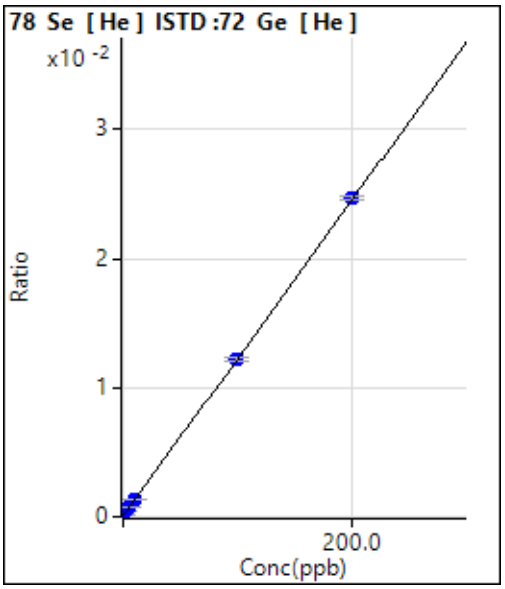
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21430.73	0.0053	P	0.8	
2	☐	2.000	2.266	23363.90	0.0058	P	2.3	13.3
3	☐	5.000	5.260	25724.98	0.0063	P	3.2	5.2
4	☐	10.000	9.353	28784.28	0.0071	P	3.4	-6.5
5	☐	100.000	99.000	97491.78	0.0245	P	3.6	-1.0
6	☐	200.000	200.523	170392.51	0.0442	P	2.8	0.3

y = 1.9403E-004 * x + 0.0053
R = 1.0000
DL = 0.644 ppb
BEC = 27.39 ppb

Weight: <None>
Min Conc: <None>

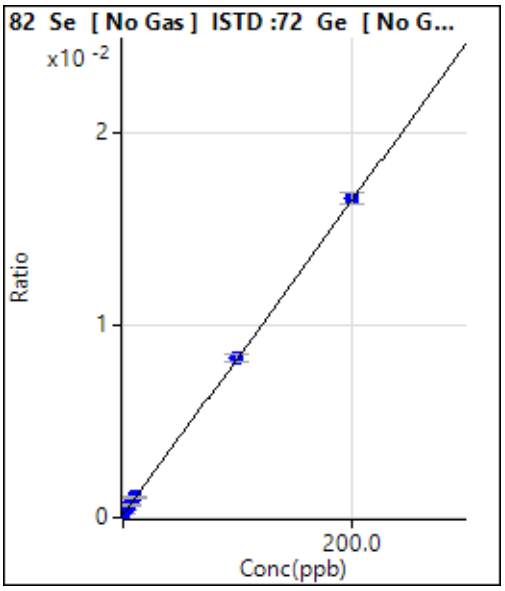


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.00	0.0002	P	2.1	
2	☐	2.000	1.848	541.34	0.0004	P	3.0	-7.6
3	☐	5.000	4.912	1044.71	0.0008	P	4.3	-1.8
4	☐	10.000	9.356	1746.12	0.0013	P	2.2	-6.4
5	☐	100.000	98.853	15601.07	0.0123	P	2.6	-1.1
6	☐	200.000	200.609	31085.78	0.0247	P	1.3	0.3

y = 1.2231E-004 * x + 1.7504E-004
R = 1.0000
DL = 0.09037 ppb
BEC = 1.431 ppb

Weight: <None>
Min Conc: <None>

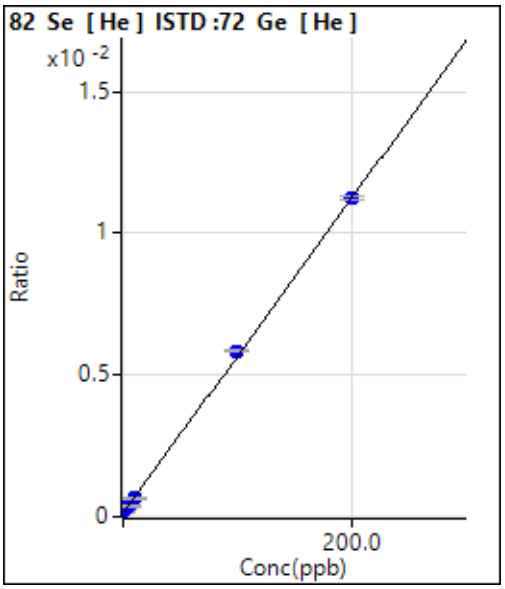
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	4.6	
2	☐	2.000	2.291	1663.47	0.0004	P	16.6	14.6
3	☐	5.000	5.036	2573.64	0.0006	P	8.0	0.7
4	☐	10.000	10.306	4290.76	0.0011	P	8.0	3.1
5	☐	100.000	98.838	32910.74	0.0083	P	5.0	-1.2
6	☐	200.000	200.562	63855.73	0.0166	P	3.4	0.3

y = 8.1518E-005 * x + 2.2326E-004
R = 1.0000
DL = 0.3762 ppb
BEC = 2.739 ppb

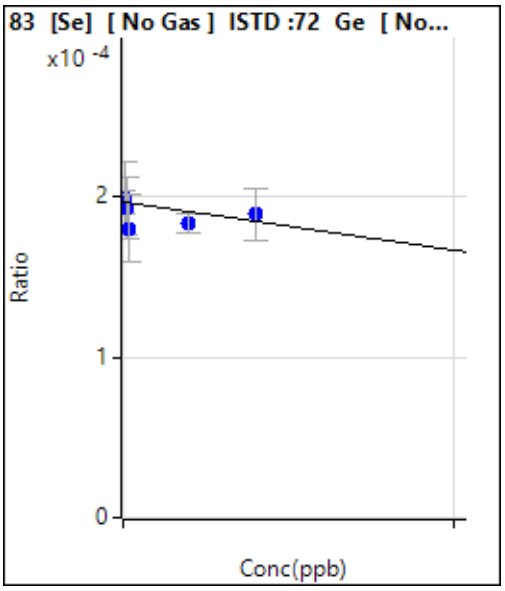
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0002	P	23.0	
2	☐	2.000	1.594	370.01	0.0003	P	12.1	-20.3
3	☐	5.000	3.561	516.69	0.0004	P	9.0	-28.8
4	☐	10.000	8.584	876.71	0.0007	P	8.1	-14.2
5	☐	100.000	101.923	7438.88	0.0058	P	0.5	1.9
6	☐	200.000	199.149	14151.02	0.0112	P	1.2	-0.4

y = 5.5552E-005 * x + 1.8559E-004
R = 0.9999
DL = 2.3 ppb
BEC = 3.341 ppb

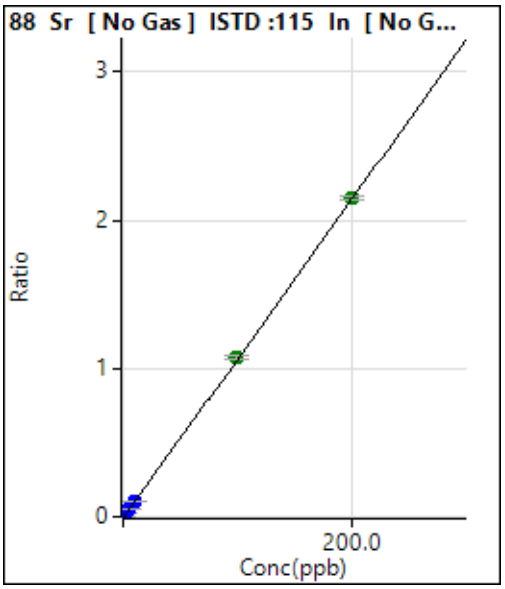
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0002	P	7.5	
2	☐	2.000	-38.779	806.70	0.0002	P	23.1	-2039.0
3	☐	5.000	62.802	783.37	0.0002	P	19.5	1156.0
4	☐	10.000	271.603	730.04	0.0002	P	23.3	2616.0
5	☐	100.000	222.086	730.04	0.0002	P	6.6	122.1
6	☐	200.000	124.840	730.03	0.0002	P	17.2	-37.6

y = -6.0085E-008 * x + 1.9668E-004
R = -0.3227
DL = -739.6 ppb
BEC = -3273 ppb

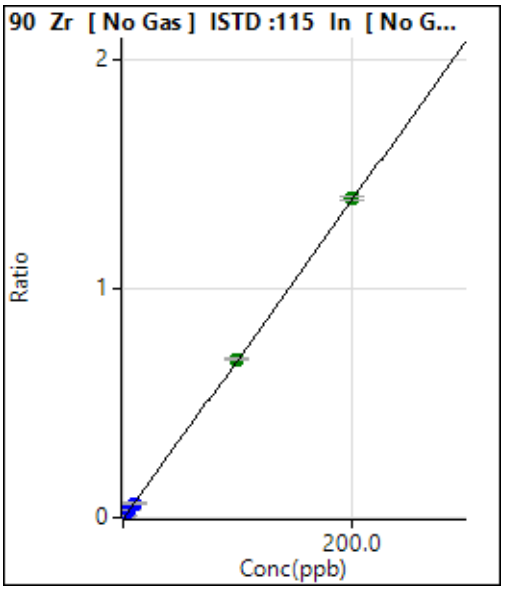
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.28	0.0005	P	3.1	
2	☐	2.000	1.861	98465.31	0.0205	P	2.2	-6.9
3	☐	5.000	4.731	240982.51	0.0514	P	4.1	-5.4
4	☐	10.000	9.559	486485.36	0.1033	P	3.4	-4.4
5	☐	100.000	100.111	4893614.72	1.0770	A	1.7	0.1
6	☐	200.000	199.975	9456372.36	2.1509	A	1.4	0.0

y = 0.0108 * x + 5.1078E-004
R = 1.0000
DL = 0.00447 ppb
BEC = 0.0475 ppb

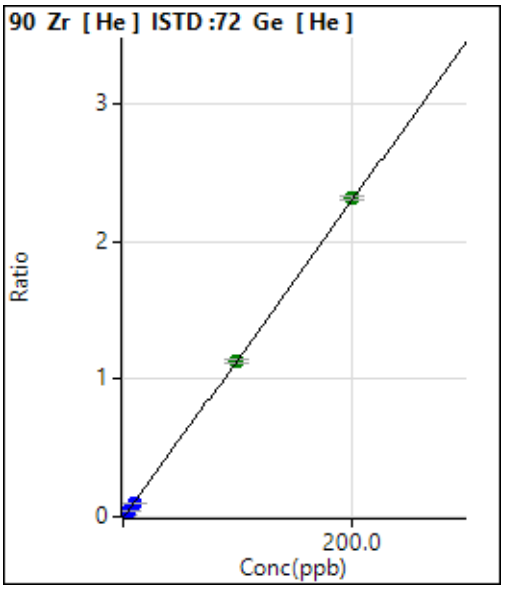
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2433.58	0.0005	P	77.8	
2	☐	2.000	1.558	54401.46	0.0113	P	3.5	-22.1
3	☐	5.000	4.256	141131.67	0.0301	P	3.7	-14.9
4	☐	10.000	8.964	295811.95	0.0628	P	3.0	-10.4
5	☐	100.000	99.291	3137470.68	0.6905	A	1.6	-0.7
6	☐	200.000	200.429	6125960.12	1.3933	A	1.6	0.2

y = 0.0069 * x + 5.1229E-004
R = 1.0000
DL = 0.1721 ppb
BEC = 0.07372 ppb

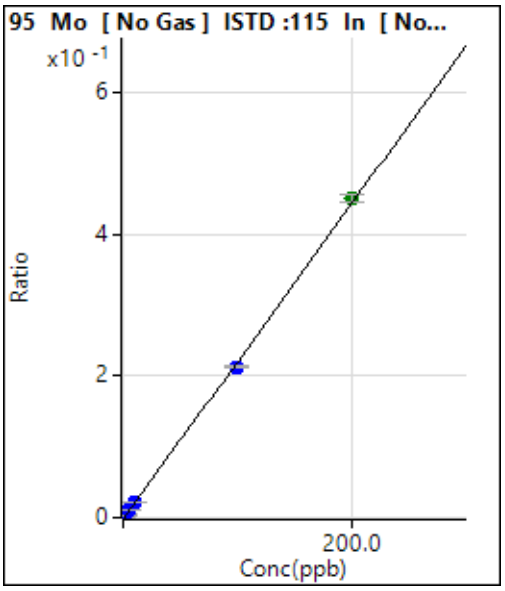
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1746.81	0.0013	P	5.9	
2	☐	2.000	1.528	25494.71	0.0189	P	5.8	-23.6
3	☐	5.000	4.060	64703.43	0.0480	P	3.1	-18.8
4	☐	10.000	8.603	132787.39	0.1004	P	0.5	-14.0
5	☐	100.000	98.415	1443082.79	1.1345	A	2.7	-1.6
6	☐	200.000	200.891	2912022.88	2.3144	A	1.5	0.4

y = 0.0115 * x + 0.0013
R = 1.0000
DL = 0.01982 ppb
BEC = 0.1125 ppb

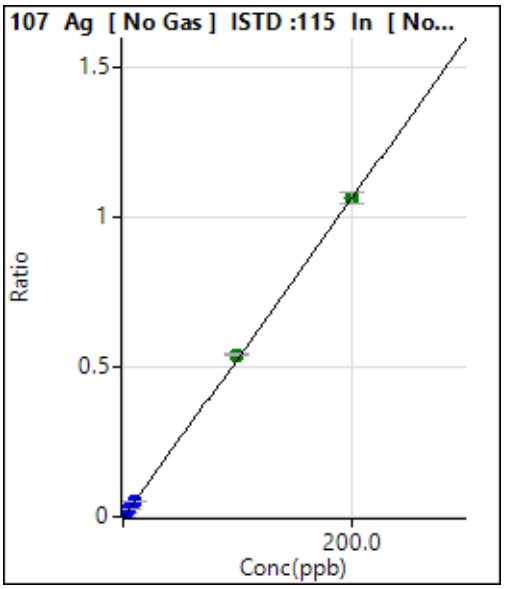
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286.68	0.0001	P	14.0	
2	☐	2.000	1.796	19471.22	0.0041	P	3.3	-10.2
3	☐	5.000	4.565	47923.04	0.0102	P	5.6	-8.7
4	☐	10.000	9.319	97986.49	0.0208	P	3.0	-6.8
5	☐	100.000	95.318	964242.41	0.2122	P	1.6	-4.7
6	☐	200.000	202.388	1980852.73	0.4505	A	2.1	1.2

y = 0.0022 * x + 6.0232E-005
R = 0.9996
DL = 0.0114 ppb
BEC = 0.02706 ppb

Weight: <None>
Min Conc: <None>

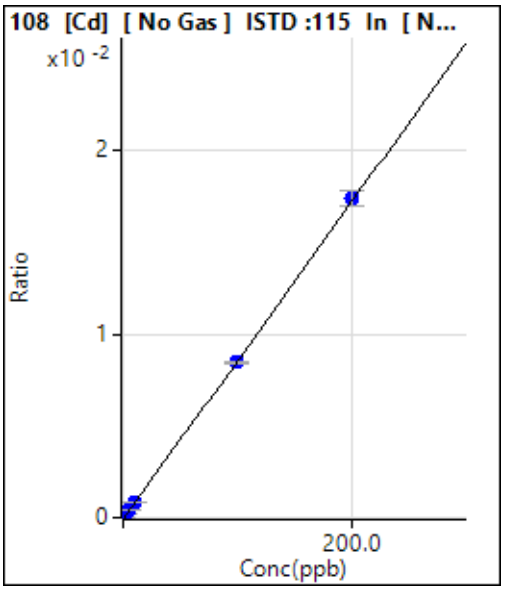


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	5.0	
2	☐	2.000	1.897	49583.34	0.0103	P	1.2	-5.2
3	☐	5.000	4.837	121997.12	0.0260	P	4.3	-3.3
4	☐	10.000	9.790	246945.37	0.0524	P	3.0	-2.1
5	☐	100.000	101.298	2455198.19	0.5404	A	0.7	1.3
6	☐	200.000	199.367	4674129.31	1.0633	A	3.2	-0.3

y = 0.0053 * x + 2.2144E-004
R = 1.0000
DL = 0.006225 ppb
BEC = 0.04153 ppb

Weight: <None>
Min Conc: <None>

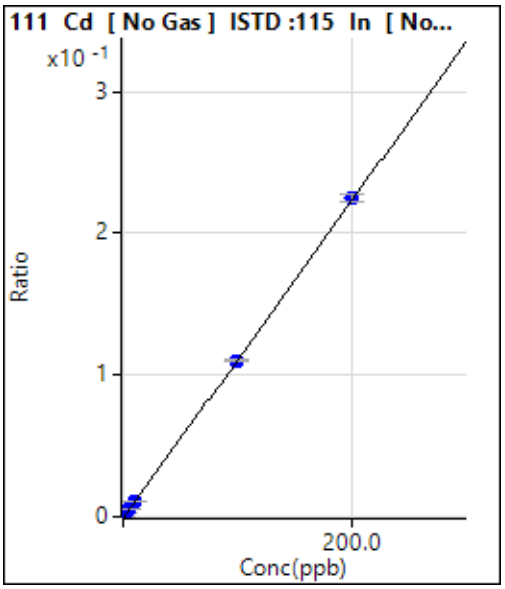
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.	
2	☐	2.000	1.862	780.04	0.0002	P	3.3	-6.9
3	☐	5.000	4.882	1986.86	0.0004	P	8.6	-2.4
4	☐	10.000	9.425	3850.63	0.0008	P	4.3	-5.8
5	☐	100.000	97.588	38386.38	0.0084	P	1.6	-2.4
6	☐	200.000	201.239	76575.91	0.0174	P	4.7	0.6

y = 8.6561E-005 * x + 1.4055E-006
R = 0.9999
DL = 0.08437 ppb
BEC = 0.01624 ppb

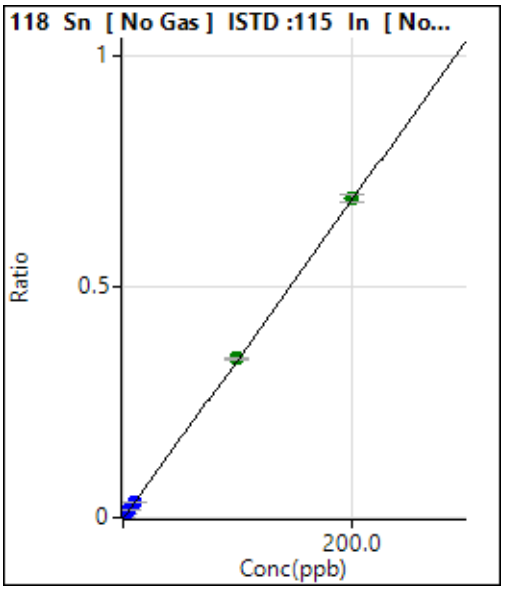
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	75.9	
2	☐	2.000	1.893	10210.79	0.0021	P	1.6	-5.3
3	☐	5.000	4.907	25829.10	0.0055	P	4.3	-1.9
4	☐	10.000	9.923	52428.00	0.0111	P	2.0	-0.8
5	☐	100.000	98.387	501063.70	0.1103	P	1.4	-1.6
6	☐	200.000	200.814	989520.53	0.2251	P	1.9	0.4

y = 0.0011 * x + 7.0121E-006
R = 1.0000
DL = 0.01424 ppb
BEC = 0.006257 ppb

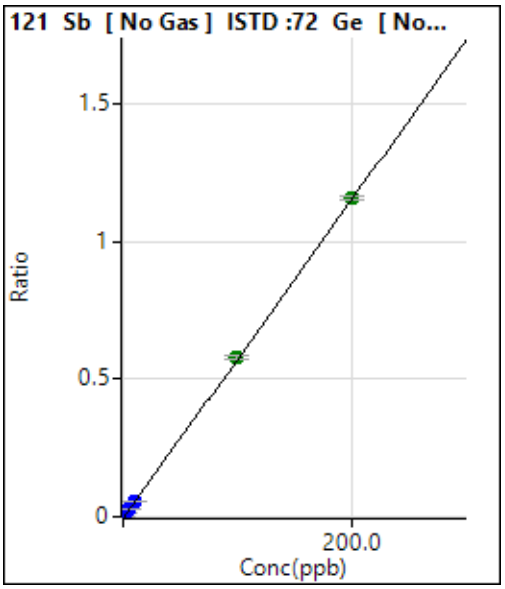
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4177.41	0.0009	P	5.7	
2	☐	2.000	1.807	34151.52	0.0071	P	1.4	-9.6
3	☐	5.000	4.611	78887.02	0.0168	P	1.0	-7.8
4	☐	10.000	9.226	154206.08	0.0327	P	3.7	-7.7
5	☐	100.000	99.444	1564684.82	0.3444	A	0.7	-0.6
6	☐	200.000	200.328	3045901.00	0.6928	A	2.1	0.2

y = 0.0035 * x + 8.7828E-004
R = 1.0000
DL = 0.0432 ppb
BEC = 0.2543 ppb

Weight: <None>
Min Conc: <None>

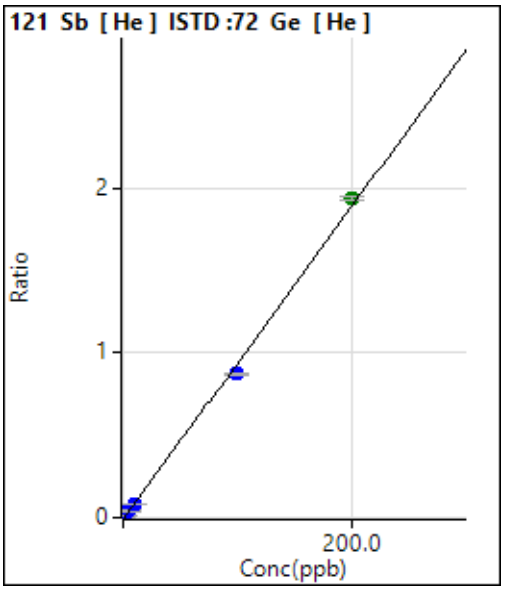


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.35	0.0001	P	13.9	
2	☐	2.000	1.843	43723.34	0.0108	P	2.8	-7.8
3	☐	5.000	4.618	109034.92	0.0269	P	1.1	-7.6
4	☐	10.000	9.389	220029.03	0.0545	P	3.4	-6.1
5	☐	100.000	99.910	2302198.35	0.5791	A	3.0	-0.1
6	☐	200.000	200.087	4468555.14	1.1596	A	1.2	0.0

y = 0.0058 * x + 9.0138E-005
R = 1.0000
DL = 0.006483 ppb
BEC = 0.01555 ppb

Weight: <None>
Min Conc: <None>

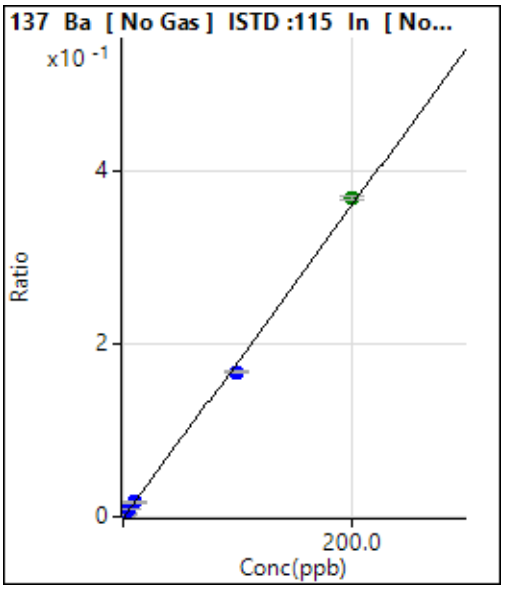
Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0001	P	50.8	
2	☐	2.000	1.671	21611.49	0.0160	P	3.3	-16.4
3	☐	5.000	4.314	55347.15	0.0411	P	2.1	-13.7
4	☐	10.000	8.883	111744.12	0.0845	P	0.4	-11.2
5	☐	100.000	91.663	1106801.21	0.8701	P	2.3	-8.3
6	☐	200.000	204.245	2439226.63	1.9387	A	1.1	2.1

y = 0.0095 * x + 1.4852E-004
R = 0.9988
DL = 0.02386 ppb
BEC = 0.01565 ppb

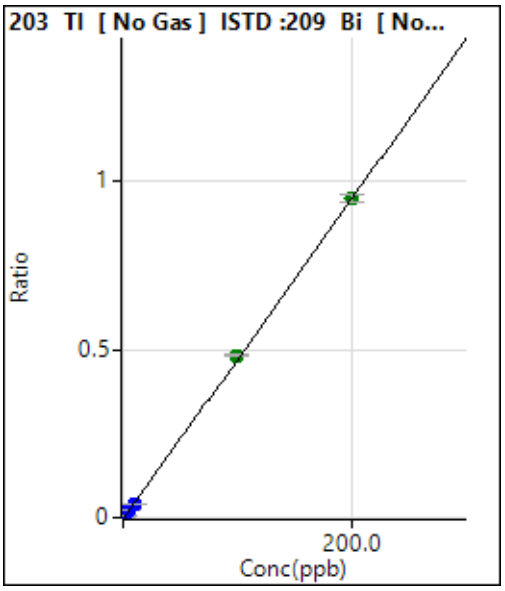
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0001	P	11.9	
2	☐	2.000	1.773	15970.20	0.0033	P	2.7	-11.4
3	☐	5.000	4.515	38935.43	0.0083	P	3.5	-9.7
4	☐	10.000	9.187	78963.28	0.0168	P	4.4	-8.1
5	☐	100.000	92.350	761223.24	0.1675	P	1.1	-7.7
6	☐	200.000	203.880	1625677.16	0.3697	A	1.2	1.9

y = 0.0018 * x + 1.1567E-004
R = 0.9990
DL = 0.02281 ppb
BEC = 0.0638 ppb

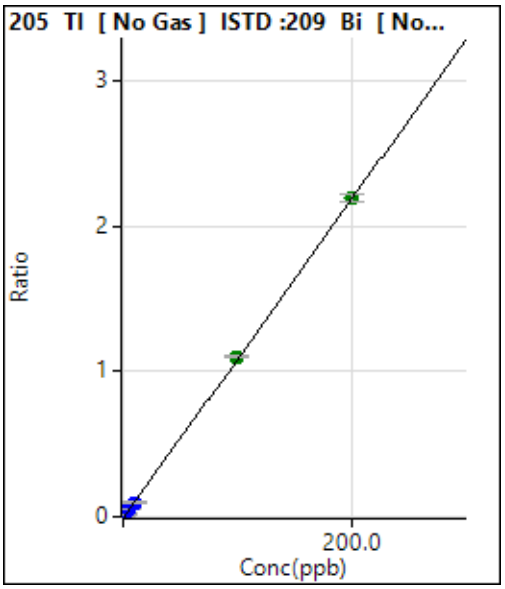
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	346.68	0.0001	P	4.9	
2	☐	2.000	1.735	36834.89	0.0083	P	2.0	-13.3
3	☐	5.000	4.509	95551.07	0.0216	P	0.8	-9.8
4	☐	10.000	8.702	184109.42	0.0416	P	1.6	-13.0
5	☐	100.000	101.266	2038415.07	0.4828	A	1.3	1.3
6	☐	200.000	199.447	3872987.44	0.9508	A	2.3	-0.3

y = 0.0048 * x + 7.9023E-005
R = 0.9999
DL = 0.002435 ppb
BEC = 0.01658 ppb

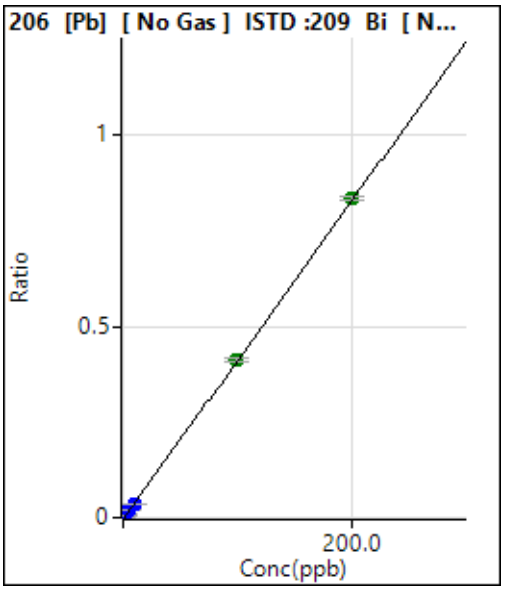
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0002	P	5.6	
2	☐	2.000	1.795	87805.94	0.0199	P	2.1	-10.3
3	☐	5.000	4.610	225112.25	0.0508	P	1.0	-7.8
4	☐	10.000	8.957	436690.69	0.0986	P	1.5	-10.4
5	☐	100.000	100.496	4662244.41	1.1042	A	2.1	0.5
6	☐	200.000	199.816	8942398.20	2.1952	A	2.3	-0.1

y = 0.0110 * x + 1.8308E-004
R = 1.0000
DL = 0.002803 ppb
BEC = 0.01667 ppb

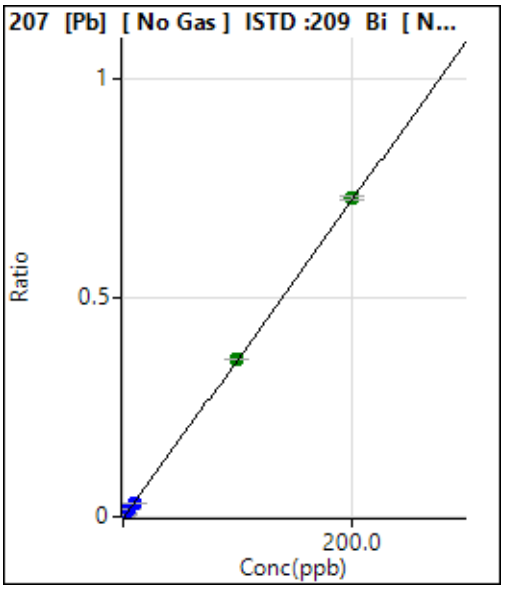
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	680.03	0.0002	P	8.8	
2	☐	2.000	1.771	33177.86	0.0075	P	1.2	-11.5
3	☐	5.000	4.337	80580.23	0.0182	P	2.0	-13.3
4	☐	10.000	8.826	163286.11	0.0369	P	2.1	-11.7
5	☐	100.000	98.640	1732610.39	0.4104	A	2.5	-1.4
6	☐	200.000	200.758	3401720.47	0.8350	A	0.8	0.4

y = 0.0042 * x + 1.5497E-004
R = 1.0000
DL = 0.009801 ppb
BEC = 0.03726 ppb

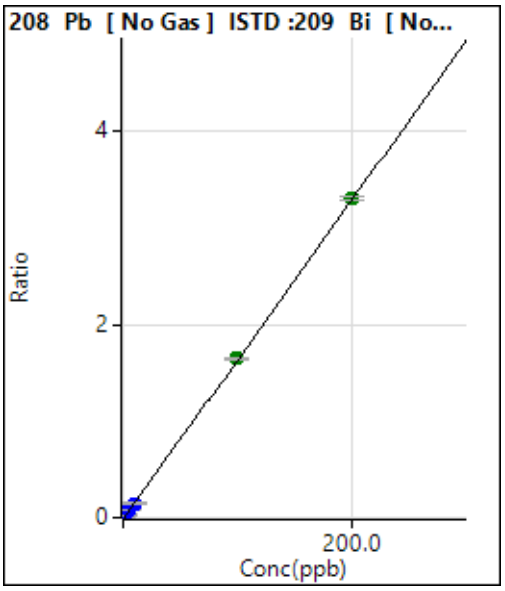
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	540.03	0.0001	P	3.7	
2	☐	2.000	1.766	28766.90	0.0065	P	3.0	-11.7
3	☐	5.000	4.347	70295.30	0.0159	P	1.2	-13.1
4	☐	10.000	8.808	141880.73	0.0320	P	2.9	-11.9
5	☐	100.000	98.683	1509916.59	0.3576	A	0.2	-1.3
6	☐	200.000	200.737	2962667.46	0.7272	A	1.1	0.4

y = 0.0036 * x + 1.2309E-004
R = 1.0000
DL = 0.003729 ppb
BEC = 0.03398 ppb

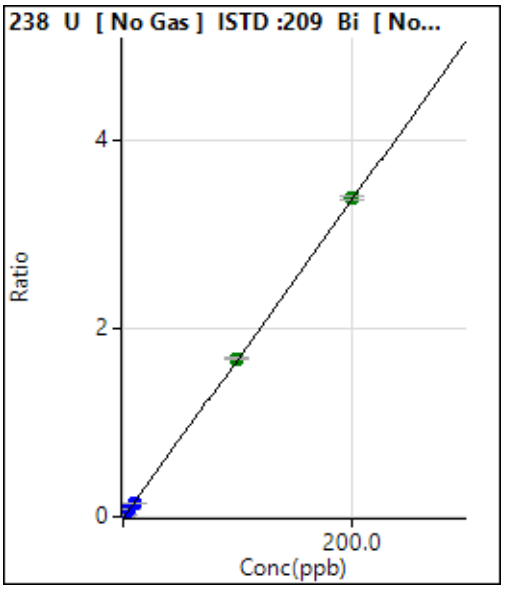
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2503.48	0.0006	P	5.5	
2	☐	2.000	1.780	132344.02	0.0300	P	1.8	-11.0
3	☐	5.000	4.403	324935.44	0.0734	P	1.0	-11.9
4	☐	10.000	8.958	658570.71	0.1487	P	2.2	-10.4
5	☐	100.000	99.657	6958443.81	1.6480	A	1.4	-0.3
6	☐	200.000	200.241	13487403.03	3.3108	A	0.7	0.1

y = 0.0165 * x + 5.7045E-004
R = 1.0000
DL = 0.005722 ppb
BEC = 0.03451 ppb

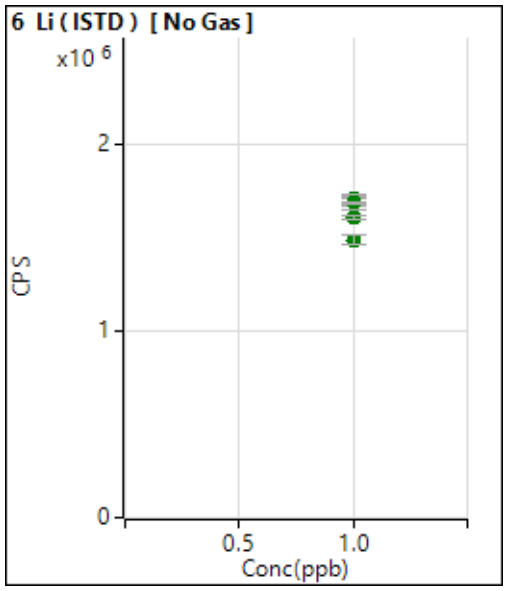
Weight: <None>
Min Conc: <None>



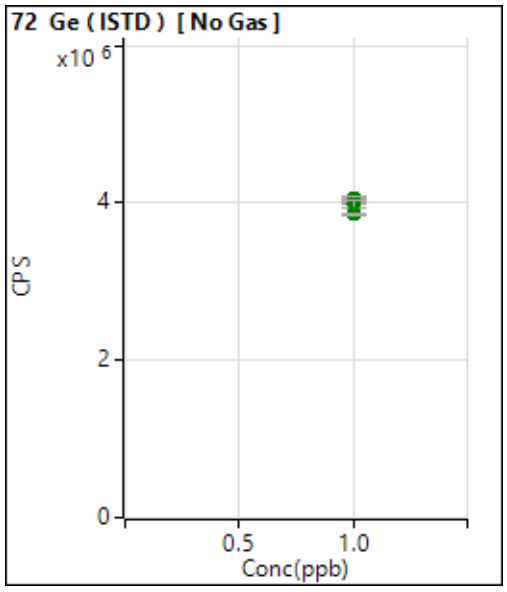
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	740.04	0.0002	P	2.1	
2	☐	2.000	1.774	133076.73	0.0302	P	1.8	-11.3
3	☐	5.000	4.374	328262.84	0.0741	P	1.7	-12.5
4	☐	10.000	8.842	662863.87	0.1496	P	1.6	-11.6
5	☐	100.000	99.217	7082138.44	1.6773	A	1.3	-0.8
6	☐	200.000	200.467	13805363.13	3.3888	A	0.9	0.2

y = 0.0169 * x + 1.6865E-004
R = 1.0000
DL = 0.0006385 ppb
BEC = 0.009977 ppb

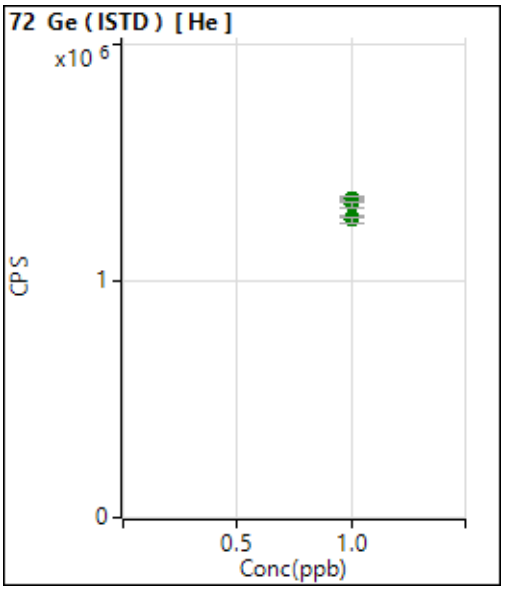
Weight: <None>
Min Conc: <None>



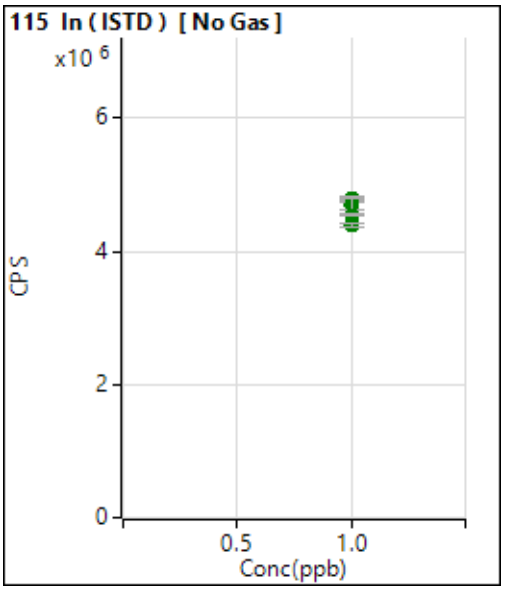
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709693.07		A	2.2	
2	☐	1.000		1684032.85		A	3.7	
3	☐	1.000		1689083.68		A	2.4	
4	☐	1.000		1685601.20		A	0.5	
5	☐	1.000		1602833.25		A	1.4	
6	☐	1.000		1485932.75		A	3.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4032147.65		A	0.8	
2	☐	1.000		4060404.84		A	1.4	
3	☐	1.000		4060624.62		A	0.1	
4	☐	1.000		4039531.71		A	2.5	
5	☐	1.000		3977741.71		A	2.4	
6	☐	1.000		3853891.92		A	1.2	

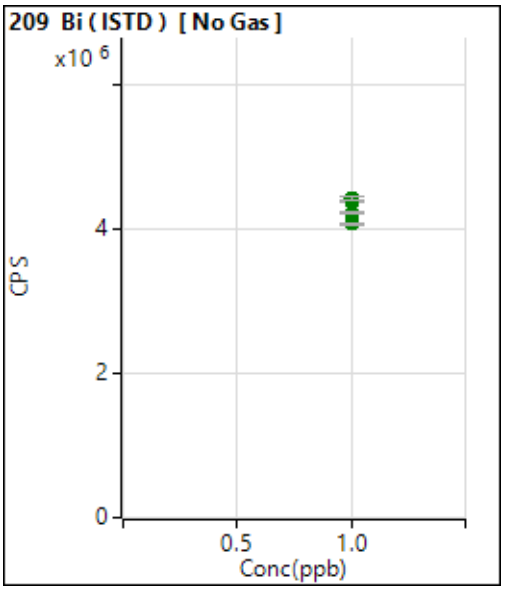


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1348381.02		A	0.8	
2	☐	1.000		1350236.02		A	1.4	
3	☐	1.000		1347099.56		A	1.6	
4	☐	1.000		1323155.97		A	1.9	
5	☐	1.000		1272160.74		A	1.0	
6	☐	1.000		1258140.06		A	1.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4757365.09		A	0.6	
2	☐	1.000		4797210.87		A	1.0	
3	☐	1.000		4694611.76		A	3.4	
4	☐	1.000		4713862.81		A	4.1	
5	☐	1.000		4543731.32		A	0.6	
6	☐	1.000		4396915.86		A	1.0	

Calibration for 019CALS.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4387752.12		A	0.6	
2	☐	1.000		4412656.29		A	1.6	
3	☐	1.000		4429635.14		A	0.7	
4	☐	1.000		4430689.31		A	1.5	
5	☐	1.000		4222564.31		A	0.7	
6	☐	1.000		4073809.83		A	0.4	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	022LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:31:55-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	012CALB.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	1.833	1.833	2.45	122381	0.00	2	
Be	9	1	No Gas	1.933	1.933	2.03	10521	0.02	2	
V	51	2	He	1.483	1.483	8.31	23384	0.01	2	
Cr	52	2	He	1.803	1.803	6.11	31671	0.01	2	
Fe	56	2	He	204.869	204.869	4.86	2003668	0.01	200	
Se	78	2	He	1.874	1.874	1.82	523	0.36	2	
As	75	2	He	1.848	1.848	6.33	3609	0.05	2	
Ca	44	2	He	180.065	180.065	8.70	13450	1.34	200	
Na	23	2	He	185.794	185.794	4.61	383309	0.05	200	
Mg	24	2	He	185.044	185.044	3.66	182005	0.10	200	
K	39	2	He	191.130	191.130	5.52	371479	0.05	200	
Mn	55	2	He	1.797	1.797	3.40	16907	0.01	2	
Co	59	2	He	1.896	1.896	6.14	29299	0.01	2	
Ni	60	2	He	2.013	2.013	2.24	8650	0.02	2	
Cu	63	2	He	1.861	1.861	4.08	20933	0.01	2	
Zn	66	2	He	1.808	1.808	12.16	5084	0.04	2	
Al	27	2	He	2.105	2.105	56.34	11355	0.02	2	
B	11	1	No Gas	10.185	10.185	2.51	43051	0.02	10	
Al	27	1	No Gas	2.208	2.208	7.73	388415	0.00	2	
Si	28	1	No Gas	10.557	10.557	16.78	1498245	0.00	10	
Ag	107	1	No Gas	1.881	1.881	0.92	45563	0.00	2	
Cd	111	1	No Gas	1.894	1.894	2.01	9464	0.02	2	
Sr	88	1	No Gas	1.910	1.910	0.81	93547	0.00	2	
Mo	95	1	No Gas	1.863	1.863	2.21	18693	0.01	2	
Sn	118	1	No Gas	1.792	1.792	3.51	31401	0.01	2	
Sb	121	1	No Gas	1.791	1.791	4.04	40416	0.00	2	
Ba	137	1	No Gas	1.818	1.818	1.32	15166	0.01	2	
Tl	205	1	No Gas	1.783	1.783	1.63	81479	0.00	2	
Tl	203	1	No Gas	1.730	1.730	3.56	34304	0.01	2	
Pb	208	1	No Gas	1.748	1.748	1.27	121435	0.00	2	
U	238	1	No Gas	1.751	1.751	1.48	122687	0.00	2	
Ca	43	2	He	168.122	168.122	4.95	670	25.09	200	
Sb	121	2	He	1.859	1.859	5.59	21101	0.01	2	
Ti	47	2	He	1.817	1.817	15.39	647	0.28	200	
Cu	63	1	No Gas	1.940	1.940	3.26	42791	0.00	2	
Se	82	1	No Gas	1.738	1.738	37.67	1410	0.12	2	
Zr	90	1	No Gas	1.643	1.643	1.09	53016	0.00	2	
Zr	90	2	He	1.607	1.607	2.56	25628	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1522985	0.42	1709693	89.08	70	120	

Sample Report

Ge	72	2	He	1294612	2.32	1348381	96.01	70	120	
Ge	72	1	No Gas	3862345	0.98	4032148	95.79	70	120	
In	115	1	No Gas	4445248	2.74	4757365	93.44	70	120	
Bi	209	1	No Gas	4120927	1.77	4387752	93.92	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	023LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:34:16-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	012CALB.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	4.440	4.440	5.15	177427	0.00	5	
Be	9	1	No Gas	4.854	4.854	2.41	26548	0.02	5	
V	51	2	He	4.295	4.295	3.64	48993	0.01	5	
Cr	52	2	He	4.437	4.437	4.56	60199	0.01	5	
Fe	56	2	He	475.944	475.944	3.12	4634438	0.01	500	
Se	78	2	He	4.769	4.769	10.02	990	0.48	5	
As	75	2	He	4.658	4.658	3.75	8548	0.05	5	
Ca	44	2	He	438.661	438.661	3.52	30524	1.44	500	
Na	23	2	He	506.565	506.565	0.54	876778	0.06	500	
Mg	24	2	He	458.324	458.324	2.76	452668	0.10	500	
K	39	2	He	467.022	467.022	2.80	709165	0.07	500	
Mn	55	2	He	4.486	4.486	1.86	40447	0.01	5	
Co	59	2	He	4.578	4.578	5.01	71160	0.01	5	
Ni	60	2	He	4.682	4.682	3.44	18960	0.02	5	
Cu	63	2	He	4.480	4.480	1.89	48908	0.01	5	
Zn	66	2	He	5.110	5.110	2.14	11785	0.04	5	
Al	27	2	He	5.523	5.523	15.75	13680	0.04	5	
B	11	1	No Gas	23.340	23.340	2.73	83541	0.03	25	
Al	27	1	No Gas	5.484	5.484	1.12	458766	0.00	5	
Si	28	1	No Gas	24.409	24.409	6.33	1659895	0.00	25	
Ag	107	1	No Gas	4.731	4.731	0.60	113715	0.00	5	
Cd	111	1	No Gas	4.782	4.782	1.77	23972	0.02	5	
Sr	88	1	No Gas	4.716	4.716	1.51	228822	0.00	5	
Mo	95	1	No Gas	4.531	4.531	2.06	45321	0.01	5	
Sn	118	1	No Gas	4.502	4.502	2.99	73382	0.01	5	
Sb	121	1	No Gas	4.557	4.557	1.58	101868	0.00	5	
Ba	137	1	No Gas	4.410	4.410	5.02	36221	0.01	5	
Tl	205	1	No Gas	4.558	4.558	3.85	207179	0.00	5	
Tl	203	1	No Gas	4.433	4.433	2.14	87473	0.01	5	
Pb	208	1	No Gas	4.363	4.363	1.04	299850	0.00	5	
U	238	1	No Gas	4.408	4.408	1.96	308016	0.00	5	
Ca	43	2	He	450.305	450.305	16.30	1690	26.64	500	
Sb	121	2	He	4.607	4.607	3.15	52506	0.01	5	
Ti	47	2	He	4.623	4.623	9.29	1633	0.28	5	
Cu	63	1	No Gas	4.752	4.752	2.17	99926	0.00	5	
Se	82	1	No Gas	5.077	5.077	14.49	2450	0.21	5	
Zr	90	1	No Gas	4.241	4.241	1.35	133959	0.00	5	
Zr	90	2	He	4.087	4.087	4.08	63146	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1537675	3.14	1709693	89.94	70	120	

Sample Report

Ge	72	2	He	1305986	0.69	1348381	96.86	70	120	
Ge	72	1	No Gas	3844180	0.63	4032148	95.34	70	120	
In	115	1	No Gas	4468521	2.31	4757365	93.93	70	120	
Bi	209	1	No Gas	4124585	2.05	4387752	94.00	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:38:55-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	012CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.090	-116.8	84234	0.9	0.5	
Be	9	1	No Gas	0.002	156.4	87	17.6	0.5	
V	51	2	He	-0.552	-2.4	5284	1.8	2.5	
Cr	52	2	He	-0.377	-1.8	8683	1.1	2.5	
Fe	56	2	He	0.104	145.0	50012	2.6	100	
Se	78	2	He	0.034	159.7	237	3.8	1	
As	75	2	He	-0.052	-20.1	330	5.3	2.5	
Ca	44	2	He	-0.536	-41.8	1770	1.1	100	
Na	23	2	He	-3.934	-32.1	98177	1.6	100	
Mg	24	2	He	-0.172	-9.0	1380	0.7	100	
K	39	2	He	1.553	127.2	146812	1.3	100	
Mn	55	2	He	-0.012	-28.8	1353	1.7	2.5	
Co	59	2	He	0.001	62.1	187	8.2	2.5	
Ni	60	2	He	-0.004	-1306.7	1003	19.3	2.5	
Cu	63	2	He	-0.047	-19.3	893	10.3	1	
Zn	66	2	He	-0.108	-93.4	1280	16.4	2.5	
Al	27	2	He	0.453	61.4	10511	1.4	5	
B	11	1	No Gas	0.060	465.4	12656	3.8	0.5	
Al	27	1	No Gas	0.926	26.1	351497	0.7	5	
Si	28	1	No Gas	5.786	22.2	1405795	1.2	10	
Ag	107	1	No Gas	-0.025	-21.6	393	29.7	2.5	
Cd	111	1	No Gas	-0.004	-1.1	10	0.0	1	
Sr	88	1	No Gas	0.001	581.3	2287	11.6	2.5	
Mo	95	1	No Gas	0.000	-1024.7	263	5.8	2.5	
Sn	118	1	No Gas	-0.068	-13.7	2824	5.1	5	
Sb	121	1	No Gas	0.002	61.1	380	5.3	2.5	
Ba	137	1	No Gas	-0.005	-158.3	470	11.3	2.5	
Tl	205	1	No Gas	-0.004	-80.8	573	23.7	1	
Tl	203	1	No Gas	-0.003	-62.8	257	15.7	1	
Pb	208	1	No Gas	-0.016	-17.9	1203	16.1	2.5	
U	238	1	No Gas	-0.003	-38.9	503	14.0	2.5	
Ca	43	2	He	0.383	1792.7	73	34.3	100	
Sb	121	2	He	0.001	388.2	207	19.6	2.5	
Ti	47	2	He	0.001	1606.3	17	34.6	2.5	
Se	82	1	No Gas	-0.160	-240.9	793	15.8	1	
Zr	90	1	No Gas	-0.009	-23.6	1977	1.3	2.5	
Zr	90	2	He	0.011	98.0	1874	8.5	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1547391	2.92	1709693	90.51	70	120	
Ge	72	2	He	1320617	0.46	1348381	97.94	70	120	
Ge	72	1	No Gas	3770979	1.70	4032148	93.52	70	120	
In	115	1	No Gas	4398808	2.25	4757365	92.46	70	120	
Bi	209	1	No Gas	4041774	0.37	4387752	92.11	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:41:16-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	012CALB.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	0.364	18.5	86880	0.1	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.001	207.7	80	18.8	0	ICSA Main CR1 Failed
V	51	2	He	-0.261	-5.4	7432	2.8	0	ICSA Main CR1 Failed
Cr	52	2	He	1.107	2.0	23157	0.5	0	ICSA Main CR1 Failed
Fe	56	2	He	101264.825	2.0	922837160	2.6	0	
Se	78	2	He	0.180	61.6	243	6.2	0	ICSA Main CR1 Failed
As	75	2	He	0.185	19.5	700	8.0	0	ICSA Main CR1 Failed
Ca	44	2	He	104318.673	0.5	6465508	1.9	0	
Na	23	2	He	104897.238	1.2	151577024	0.3	0	
Mg	24	2	He	103377.673	0.4	96234762	1.7	0	
K	39	2	He	103758.459	1.3	119014002	0.7	0	
Mn	55	2	He	2.417	3.2	21233	2.8	0	ICSA Main CR1 Failed
Co	59	2	He	0.966	2.0	14321	2.2	0	ICSA Main CR1 Failed
Ni	60	2	He	2.428	1.4	9757	2.7	0	ICSA Main CR1 Failed
Cu	63	2	He	0.492	1.4	6242	0.4	0	ICSA Main CR1 Failed
Zn	66	2	He	2.847	2.3	6832	3.3	0	ICSA Main CR1 Failed
Al	27	2	He	100568.212	0.8	61677377	1.2	0	
B	11	1	No Gas	2.341	1.8	18235	0.9	0	
Al	27	1	No Gas	102191.583	0.4	2119222688	0.8	0	
Si	28	1	No Gas	1526.753	8.8	18765756	7.2	0	
Ag	107	1	No Gas	0.382	2.0	8997	1.9	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	1.656	5.2	7429	5.3	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	2176.211	1.7	93293682	1.6	0	
Mo	95	1	No Gas	1961.921	1.0	17408793	1.0	0	
Sn	118	1	No Gas	2074.288	1.4	28566175	1.6	0	
Sb	121	1	No Gas	0.615	1.3	13230	2.4	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.859	1.2	6669	1.1	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.017	17.7	1370	8.4	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.015	30.5	560	13.5	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.060	3.3	5851	3.1	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.049	4.6	3721	3.8	0	ICSA Main CR1 Failed
Ca	43	2	He	107583.088	0.9	366105	2.0	0	
Sb	121	2	He	0.636	4.1	7009	3.1	0	ICSA Main CR1 Failed
Ti	47	2	He	2082.897	0.4	689186	1.8	0	
Se	82	1	No Gas	0.211	79.2	870	5.0	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	1434436	1.48	1709693	83.90	70	120	
Ge	72	2	He	1234938	1.47	1348381	91.59	70	120	
Ge	72	1	No Gas	3619701	1.12	4032148	89.77	70	120	
In	115	1	No Gas	3986684	0.13	4757365	83.80	70	120	
Bi	209	1	No Gas	3735621	1.12	4387752	85.14	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T10:43:38-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	012CALB.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	95.379	5.091	2007158	4.06	100	95.4	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	97.599	2.186	518971	1.32	100	97.6	80	120	
V	51	2	He	98.608	2.195	883051	1.30	100	98.6	80	120	
Cr	52	2	He	102.889	4.143	1093911	3.03	100	102.9	80	120	
Fe	56	2	He	111994.485	2.178	1058141024	1.15	100	111994.5	80	120	
Se	78	2	He	102.336	3.145	16250	2.59	100	102.3	80	120	
As	75	2	He	98.719	2.520	169385	1.55	100	98.7	80	120	
Ca	44	2	He	111143.110	2.591	7141199	1.49	100	111143.1	80	120	ICSB Main CR1 Failed
Na	23	2	He	113418.651	1.728	169935337	0.65	100	113418.7	80	120	
Mg	24	2	He	113698.200	2.071	109734882	1.02	100	113698.2	80	120	
K	39	2	He	112687.423	2.086	134014201	0.96	100	112687.4	80	120	
Mn	55	2	He	91.441	2.098	780985	1.41	100	91.4	80	120	
Co	59	2	He	95.830	1.665	1457644	0.57	100	95.8	80	120	
Ni	60	2	He	94.719	1.727	357106	0.60	100	94.7	80	120	
Cu	63	2	He	90.077	1.920	938365	0.86	100	90.1	80	120	
Zn	66	2	He	97.867	2.623	194883	1.51	100	97.9	80	120	
Al	27	2	He	97591.695	1.583	62060511	0.88	100	97591.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	505.402	1.677	1513954	0.79	100	505.4	80	120	
Al	27	1	No Gas	100522.727	3.248	2152453888	1.80	100	100522.7	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	697.154	4.241	9571479	1.82	100	697.2	80	120	ICSB Main CR1 Failed
Ag	107	1	No Gas	98.353	1.098	2174499	0.81	100	98.4	80	120	
Cd	111	1	No Gas	97.571	2.096	453231	1.57	100	97.6	80	120	
Sr	88	1	No Gas	109.156	2.687	4866704	2.23	100	109.2	80	120	ICSB Main CR1 Failed
Mo	95	1	No Gas	2010.708	2.676	18547406	2.12	100	2010.7	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	102.703	0.552	1474015	1.60	100	102.7	80	120	ICSB Main CR1 Failed
Sb	121	1	No Gas	94.020	3.750	2036373	1.86	100	94.0	80	120	
Ba	137	1	No Gas	92.903	1.617	698523	0.81	100	92.9	80	120	
Tl	205	1	No Gas	94.362	1.382	3949522	0.88	100	94.4	80	120	
Tl	203	1	No Gas	93.898	0.984	1705353	0.96	100	93.9	80	120	
Pb	208	1	No Gas	95.472	1.007	6014613	0.98	100	95.5	80	120	
U	238	1	No Gas	99.682	2.186	6419572	2.03	100	99.7	80	120	
Ca	43	2	He	110897.548	2.928	391225	1.84	100	110897.5	80	120	ICSB Main CR1 Failed
Sb	121	2	He	92.019	1.716	1024732	0.66	100	92.0	80	120	
Ti	47	2	He	2171.989	2.273	745072	1.16	100	2172.0	80	120	
Cu	63	1	No Gas	98.968	4.030	1965022	2.31	100	99.0	80	120	
Se	82	1	No Gas	100.166	4.013	31347	1.91	100	100.2	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	1498660	0.97	1709693	87.66	70	120	
Ge	72	2	He	1280568	1.13	1348381	94.97	70	120	
Ge	72	1	No Gas	3738785	2.00	4032148	92.72	70	120	
In	115	1	No Gas	4144944	1.21	4757365	87.13	70	120	
Bi	209	1	No Gas	3809576	0.55	4387752	86.82	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	199CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T17:58:03-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	92515	0.00
Be	9	1	No Gas	82	4.33
V	51	2	He	5349	0.02
Cr	52	2	He	9340	0.02
Fe	56	2	He	50434	0.00
Se	78	2	He	260	3.60
As	75	2	He	372	2.27
Ca	44	2	He	2487	0.04
Na	23	2	He	454082	0.00
Mg	24	2	He	2317	0.08
K	39	2	He	171327	0.00
Mn	55	2	He	3400	0.25
Co	59	2	He	250	1.60
Ni	60	2	He	1243	0.83
Cu	63	2	He	1843	0.53
Zn	66	2	He	4324	0.16
Al	27	2	He	10758	0.04
B	11	1	No Gas	13942	0.01
Al	27	1	No Gas	364554	0.00
Si	28	1	No Gas	1432781	0.00
Ag	107	1	No Gas	657	2.79
Cd	111	1	No Gas	33	103.92
Sr	88	1	No Gas	3557	0.07
Mo	95	1	No Gas	263	9.82
Sn	118	1	No Gas	3801	0.15
Sb	121	1	No Gas	480	2.42
Ba	137	1	No Gas	627	1.40
Tl	205	1	No Gas	843	0.72
Tl	203	1	No Gas	380	6.61
Pb	208	1	No Gas	2650	0.22
U	238	1	No Gas	630	1.82
Ca	43	2	He	143	19.67
Sb	121	2	He	250	5.77
Ti	47	2	He	20	661.44
Cu	63	1	No Gas	11161	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1626896	0.96
Ge	72	2	He	1361459	1.26
Ge	72	1	No Gas	4246540	1.95
In	115	1	No Gas	4838645	0.88

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4469823	1.58

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	200CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:00:22-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10672	0.02
V	51	2	He	24299	0.00
Cr	52	2	He	31316	0.00
Fe	56	2	He	2097319	0.00
Se	78	2	He	565	0.89
As	75	2	He	3783	0.07
Ca	44	2	He	14001	0.04
Na	23	2	He	722157	0.00
Mg	24	2	He	191653	0.00
K	39	2	He	395313	0.00
Mn	55	2	He	19558	0.00
Co	59	2	He	31180	0.00
Ni	60	2	He	9003	0.00
Cu	63	2	He	22462	0.02
Zn	66	2	He	8650	0.06
Al	27	2	He	11865	0.02
B	11	1	No Gas	41378	0.00
Al	27	1	No Gas	386618	0.00
Si	28	1	No Gas	1520287	0.00
Ag	107	1	No Gas	52531	0.00
Cd	111	1	No Gas	11278	0.02
Sr	88	1	No Gas	103385	0.00
Mo	95	1	No Gas	20059	0.01
Sn	118	1	No Gas	36441	0.00
Sb	121	1	No Gas	48072	0.01
Ba	137	1	No Gas	17415	0.01
Tl	205	1	No Gas	98401	0.00
Tl	203	1	No Gas	41242	0.01
Pb	208	1	No Gas	145817	0.00
U	238	1	No Gas	147015	0.00
Ca	43	2	He	727	0.89
Sb	121	2	He	22724	0.01
Cu	63	1	No Gas	55226	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	1607839	1.19	1626896	98.83	70	120	
Ge	72	2	He	1375533	1.95	1361459	101.03	70	120	
Ge	72	1	No Gas	4240243	0.50	4246540	99.85	70	120	

Calibration Standard Report

In	115	1	No Gas	4894003	0.17	4838645	101.14	70	120	
Bi	209	1	No Gas	4532440	0.35	4469823	101.40	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	201CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:02:41-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	25947	0.01
V	51	2	He	50666	0.00
Cr	52	2	He	60825	0.00
Fe	56	2	He	4982479	0.00
Se	78	2	He	1038	0.66
As	75	2	He	8994	0.03
Ca	44	2	He	32064	0.01
Na	23	2	He	1244872	0.00
Mg	24	2	He	467028	0.00
K	39	2	He	735852	0.00
Mn	55	2	He	44483	0.01
Co	59	2	He	76246	0.00
Ni	60	2	He	21354	0.01
Cu	63	2	He	53841	0.00
Zn	66	2	He	15986	0.04
Al	27	2	He	13510	0.01
B	11	1	No Gas	83644	0.00
Al	27	1	No Gas	461554	0.00
Si	28	1	No Gas	1669197	0.00
Ag	107	1	No Gas	131219	0.00
Cd	111	1	No Gas	28174	0.01
Sr	88	1	No Gas	254121	0.00
Mo	95	1	No Gas	50118	0.00
Sn	118	1	No Gas	84596	0.00
Sb	121	1	No Gas	118399	0.00
Ba	137	1	No Gas	42329	0.01
Tl	205	1	No Gas	247978	0.00
Tl	203	1	No Gas	104426	0.00
Pb	208	1	No Gas	360906	0.00
U	238	1	No Gas	364616	0.00
Ca	43	2	He	1787	0.78
Sb	121	2	He	56475	0.00
Cu	63	1	No Gas	117919	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	1602391	1.13	1626896	98.49	70	120	
Ge	72	2	He	1381893	0.92	1361459	101.50	70	120	
Ge	72	1	No Gas	4245415	0.13	4246540	99.97	70	120	

Calibration Standard Report

In	115	1	No Gas	4959496	1.17	4838645	102.50	70	120	
Bi	209	1	No Gas	4569891	2.53	4469823	102.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	202CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:05:00-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	53374	0.01
V	51	2	He	99951	0.00
Cr	52	2	He	116564	0.00
Fe	56	2	He	10226031	0.00
Se	78	2	He	1846	0.10
As	75	2	He	17856	0.01
Ca	44	2	He	63560	0.00
Na	23	2	He	2077062	0.00
Mg	24	2	He	1089253	0.00
K	39	2	He	1467223	0.00
Mn	55	2	He	87114	0.00
Co	59	2	He	161011	0.00
Ni	60	2	He	41948	0.00
Cu	63	2	He	110605	0.00
Zn	66	2	He	24980	0.00
Al	27	2	He	16513	0.02
B	11	1	No Gas	157917	0.00
Al	27	1	No Gas	568907	0.00
Si	28	1	No Gas	2016618	0.00
Ag	107	1	No Gas	269182	0.00
Cd	111	1	No Gas	57368	0.00
Sr	88	1	No Gas	522297	0.00
Mo	95	1	No Gas	106135	0.00
Sn	118	1	No Gas	171292	0.00
Sb	121	1	No Gas	244577	0.00
Ba	137	1	No Gas	86635	0.00
Tl	205	1	No Gas	486110	0.00
Tl	203	1	No Gas	203781	0.00
Pb	208	1	No Gas	737372	0.00
U	238	1	No Gas	751516	0.00
Ca	43	2	He	3654	0.16
Sb	121	2	He	117396	0.00
Cu	63	1	No Gas	228255	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	1643430	2.30	1626896	101.02	70	120	
Ge	72	2	He	1368442	0.53	1361459	100.51	70	120	
Ge	72	1	No Gas	4261923	0.79	4246540	100.36	70	120	

Calibration Standard Report

In	115	1	No Gas	4992345	0.95	4838645	103.18	70	120	
Bi	209	1	No Gas	4619102	1.17	4469823	103.34	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	203CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:07:18-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	540249	0.00
V	51	2	He	1049363	0.00
Cr	52	2	He	1151536	0.00
Fe	56	2	He	101227902	0.00
Se	78	2	He	16547	0.01
As	75	2	He	180104	0.00
Ca	44	2	He	623474	0.00
Na	23	2	He	16589724	0.00
Mg	24	2	He	10487450	0.00
K	39	2	He	12494338	0.00
Mn	55	2	He	841518	0.00
Co	59	2	He	1703016	0.00
Ni	60	2	He	409183	0.00
Cu	63	2	He	1081699	0.00
Zn	66	2	He	215996	0.00
Al	27	2	He	76031	0.00
B	11	1	No Gas	1566852	0.00
Al	27	1	No Gas	2752326	0.00
Si	28	1	No Gas	7476286	0.00
Ag	107	1	No Gas	2928085	0.00
Cd	111	1	No Gas	572378	0.00
Sr	88	1	No Gas	5520538	0.00
Mo	95	1	No Gas	1097873	0.00
Sn	118	1	No Gas	1795316	0.00
Sb	121	1	No Gas	2622448	0.00
Ba	137	1	No Gas	869613	0.00
Tl	205	1	No Gas	5286901	0.00
Tl	203	1	No Gas	2245440	0.00
Pb	208	1	No Gas	7993191	0.00
U	238	1	No Gas	8260453	0.00
Ca	43	2	He	36121	0.01
Sb	121	2	He	1295000	0.00
Cu	63	1	No Gas	2304798	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	1551669	1.33	1626896	95.38	70	120	
Ge	72	2	He	1357842	0.79	1361459	99.73	70	120	
Ge	72	1	No Gas	4244269	1.25	4246540	99.95	70	120	

Calibration Standard Report

In	115	1	No Gas	4877629	0.52	4838645	100.81	70	120	
Bi	209	1	No Gas	4474149	1.46	4469823	100.10	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	204CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:09:28-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1115830	0.00
V	51	2	He	2009370	0.00
Cr	52	2	He	2228181	0.00
Fe	56	2	He	198353130	0.00
Se	78	2	He	31598	0.00
As	75	2	He	354663	0.00
Ca	44	2	He	1387023	0.00
Na	23	2	He	32132985	0.00
Mg	24	2	He	20449105	0.00
K	39	2	He	24345265	0.00
Mn	55	2	He	1892879	0.00
Co	59	2	He	3214113	0.00
Ni	60	2	He	789909	0.00
Cu	63	2	He	2234657	0.00
Zn	66	2	He	419145	0.00
Al	27	2	He	136251	0.00
B	11	1	No Gas	2997313	0.00
Al	27	1	No Gas	4928114	0.00
Si	28	1	No Gas	13169606	0.00
Ag	107	1	No Gas	5580571	0.00
Cd	111	1	No Gas	1102377	0.00
Sr	88	1	No Gas	10599502	0.00
Mo	95	1	No Gas	2260718	0.00
Sn	118	1	No Gas	3453474	0.00
Sb	121	1	No Gas	4982773	0.00
Ba	137	1	No Gas	1817667	0.00
Tl	205	1	No Gas	10038931	0.00
Tl	203	1	No Gas	4309066	0.00
Pb	208	1	No Gas	15199802	0.00
U	238	1	No Gas	15816232	0.00
Ca	43	2	He	71496	0.00
Sb	121	2	He	2599596	0.00
Cu	63	1	No Gas	4258630	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	1514899	0.93	1626896	93.12	70	120	
Ge	72	2	He	1356149	2.60	1361459	99.61	70	120	
Ge	72	1	No Gas	4136479	2.05	4246540	97.41	70	120	

Calibration Standard Report

In	115	1	No Gas	4759572	1.33	4838645	98.37	70	120	
Bi	209	1	No Gas	4362309	1.12	4469823	97.59	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	207_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:20:40-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	-0.093	-84.9	87671	1.3	0.5	
Be	9	1	No Gas	0.006	67.0	113	20.4	0.5	
V	51	2	He	-0.110	-13.4	4262	1.2	2.5	
Cr	52	2	He	-0.129	-33.0	7949	4.9	2.5	
Fe	56	2	He	0.368	25.7	54489	1.7	100	
Se	78	2	He	0.006	246.5	263	3.4	2	
As	75	2	He	-0.002	-485.9	372	3.7	2.5	
Ca	44	2	He	-6.229	-57.8	2074	9.4	100	
Na	23	2	He	-71.937	-11.6	341588	3.8	100	
Mg	24	2	He	-0.070	-109.8	2260	3.5	100	
K	39	2	He	-9.284	-33.5	161090	0.6	100	
Mn	55	2	He	-0.131	-9.1	2320	6.9	2.5	
Co	59	2	He	0.000	-1116.0	243	30.8	2.5	
Ni	60	2	He	-0.059	-25.1	1013	8.3	2.5	
Cu	63	2	He	-0.026	-29.1	1563	2.9	2	
Zn	66	2	He	-0.746	-9.6	2780	2.9	2.5	
Al	27	2	He	0.620	107.2	11221	1.2	5	
B	11	1	No Gas	2.406	4.7	20997	2.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.365	82.8	374051	0.7	5	
Si	28	1	No Gas	-4.856	-29.2	1377422	0.3	10	
Ag	107	1	No Gas	-0.003	-158.7	570	25.8	2.5	
Cd	111	1	No Gas	0.000	-2624.0	33	17.3	1	
Sr	88	1	No Gas	0.007	74.9	3967	5.2	2.5	
Mo	95	1	No Gas	0.046	11.2	790	8.3	2.5	
Sn	118	1	No Gas	0.015	262.9	4095	14.6	5	
Sb	121	1	No Gas	0.047	12.8	1700	10.2	2.5	
Ba	137	1	No Gas	-0.008	-53.5	563	8.8	2.5	
Tl	205	1	No Gas	0.105	35.8	6589	32.8	1	
Tl	203	1	No Gas	0.107	41.1	2897	37.1	1	
Pb	208	1	No Gas	-0.005	-17.6	2370	4.1	2.5	
U	238	1	No Gas	0.004	6.0	980	1.0	2.5	
Ca	43	2	He	-7.784	-30.7	117	9.9	100	
Sb	121	2	He	0.026	22.3	597	10.6	2.5	
Ti	47	2	He	0.019	322.1	27	78.1	2.5	
Cu	63	1	No Gas	-0.108	-5.6	8793	1.9	2.5	
Se	82	1	No Gas	0.062	602.8	827	15.4	2	
Zr	90	1	No Gas	0.109	19.9	5645	14.3	2.5	
Zr	90	2	He	0.081	4.8	2807	4.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1575721	0.62	1626896	96.85	70	120	
Ge	72	2	He	1371141	2.61	1361459	100.71	70	120	
Ge	72	1	No Gas	4256245	1.25	4246540	100.23	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4894556	2.06	4838645	101.16	70	120	
Bi	209	1	No Gas	4688082	1.84	4469823	104.88	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	208LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:23:01-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	199CALB.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	4.618	4.618	7.25	192673	0.00	5	
Be	9	1	No Gas	4.568	4.568	3.06	26027	0.02	5	
V	51	2	He	4.397	4.397	0.21	50766	0.01	5	
Cr	52	2	He	4.550	4.550	2.24	61317	0.01	5	
Fe	56	2	He	487.189	487.189	1.51	5000386	0.01	500	
Se	78	2	He	4.871	4.871	5.07	1049	0.46	5	
As	75	2	He	4.738	4.738	1.44	8969	0.05	5	
Ca	44	2	He	429.991	429.991	2.94	32268	1.33	500	
Na	23	2	He	409.041	409.041	1.55	1125215	0.04	500	
Mg	24	2	He	450.961	450.961	1.23	475298	0.09	500	
K	39	2	He	451.867	451.867	0.53	733690	0.06	500	
Mn	55	2	He	4.649	4.649	4.07	43159	0.01	5	
Co	59	2	He	4.625	4.625	1.39	76981	0.01	5	
Ni	60	2	He	4.940	4.940	2.34	21280	0.02	5	
Cu	63	2	He	4.654	4.654	1.62	54530	0.01	5	
Zn	66	2	He	4.776	4.776	7.96	14545	0.03	5	
Al	27	2	He	3.753	3.753	19.98	13350	0.03	5	
B	11	1	No Gas	22.643	22.643	2.07	87075	0.03	25	
Al	27	1	No Gas	3.942	3.942	5.48	460668	0.00	5	
Si	28	1	No Gas	15.281	15.281	7.38	1629121	0.00	25	NewName2 Main CR1 Failed
Ag	107	1	No Gas	4.524	4.524	2.71	132968	0.00	5	
Cd	111	1	No Gas	4.857	4.857	1.63	28034	0.02	5	
Sr	88	1	No Gas	4.542	4.542	3.43	255459	0.00	5	
Mo	95	1	No Gas	4.400	4.400	4.51	51574	0.01	5	
Sn	118	1	No Gas	4.506	4.506	1.99	85175	0.01	5	
Sb	121	1	No Gas	4.613	4.613	1.92	119875	0.00	5	
Ba	137	1	No Gas	4.589	4.589	4.91	43544	0.01	5	
Tl	205	1	No Gas	4.687	4.687	0.56	251221	0.00	5	
Tl	203	1	No Gas	4.637	4.637	1.90	106469	0.00	5	
Pb	208	1	No Gas	4.469	4.469	0.44	364059	0.00	5	
U	238	1	No Gas	4.386	4.386	1.22	369133	0.00	5	
Ca	43	2	He	488.136	488.136	8.31	1927	25.33	500	
Sb	121	2	He	4.385	4.385	0.19	58337	0.01	5	
Ti	47	2	He	4.709	4.709	8.88	1720	0.27	5	
Cu	63	1	No Gas	4.780	4.780	2.10	117313	0.00	5	
Se	82	1	No Gas	5.294	5.294	13.73	2634	0.20	5	
Zr	90	1	No Gas	4.215	4.215	2.20	153216	0.00	5	
Zr	90	2	He	4.045	4.045	2.19	67930	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1633444	1.73	1626896	100.40	70	120	
Ge	72	2	He	1383699	1.15	1361459	101.63	70	120	
Ge	72	1	No Gas	4276025	0.63	4246540	100.69	70	120	
In	115	1	No Gas	4965946	1.37	4838645	102.63	70	120	
Bi	209	1	No Gas	4618328	0.24	4469823	103.32	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	209LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:25:22-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	199CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.013	2.013	10.63	134741	0.00	2	
Be	9	1	No Gas	1.838	1.838	4.56	10397	0.02	2	
V	51	2	He	1.841	1.841	2.15	24530	0.01	2	
Cr	52	2	He	1.935	1.935	2.05	31684	0.01	2	
Fe	56	2	He	205.245	205.245	0.53	2146667	0.01	200	
Se	78	2	He	1.811	1.811	8.64	559	0.32	2	
As	75	2	He	1.916	1.916	2.27	3872	0.05	2	
Ca	44	2	He	165.770	165.770	9.89	14061	1.18	200	
Na	23	2	He	60.747	60.747	7.81	562792	0.01	200	NewName Main CR1 Failed
Mg	24	2	He	181.571	181.571	2.03	193689	0.09	200	
K	39	2	He	172.523	172.523	3.16	389634	0.04	200	
Mn	55	2	He	1.779	1.779	4.31	18736	0.01	2	
Co	59	2	He	1.879	1.879	2.96	31584	0.01	2	
Ni	60	2	He	1.994	1.994	3.21	9387	0.02	2	
Cu	63	2	He	1.832	1.832	4.22	22716	0.01	2	
Zn	66	2	He	1.237	1.237	7.46	7055	0.02	2	NewName Main CR1 Failed
Al	27	2	He	1.281	1.281	68.27	11815	0.01	2	NewName Main CR1 Failed
B	11	1	No Gas	9.404	9.404	5.29	43805	0.02	10	
Al	27	1	No Gas	0.954	0.954	18.90	385342	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	2.027	2.027	14.65	1450975	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	1.878	1.878	2.45	54727	0.00	2	
Cd	111	1	No Gas	1.972	1.972	2.02	11225	0.02	2	
Sr	88	1	No Gas	1.848	1.848	1.64	104436	0.00	2	
Mo	95	1	No Gas	1.819	1.819	4.52	21144	0.01	2	
Sn	118	1	No Gas	1.919	1.919	3.62	37899	0.01	2	
Sb	121	1	No Gas	1.885	1.885	2.69	48694	0.00	2	
Ba	137	1	No Gas	1.835	1.835	2.26	17522	0.01	2	
Tl	205	1	No Gas	1.892	1.892	3.38	100709	0.00	2	
Tl	203	1	No Gas	1.824	1.824	2.56	41617	0.00	2	
Pb	208	1	No Gas	1.841	1.841	0.86	149761	0.00	2	
U	238	1	No Gas	1.813	1.813	0.97	151174	0.00	2	
Ca	43	2	He	162.789	162.789	29.96	743	21.90	200	
Sb	121	2	He	1.752	1.752	2.94	23575	0.01	2	
Ti	47	2	He	1.844	1.844	14.73	690	0.27	200	
Cu	63	1	No Gas	1.936	1.936	2.45	53586	0.00	2	
Se	82	1	No Gas	2.194	2.194	24.64	1547	0.14	2	
Zr	90	1	No Gas	1.732	1.732	0.58	63039	0.00	2	
Zr	90	2	He	1.607	1.607	3.21	28030	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1614078	2.09	1626896	99.21	70	120	
Ge	72	2	He	1390433	0.34	1361459	102.13	70	120	
Ge	72	1	No Gas	4227122	0.79	4246540	99.54	70	120	
In	115	1	No Gas	4887657	0.69	4838645	101.01	70	120	
Bi	209	1	No Gas	4564350	1.50	4469823	102.11	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	210_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:27:42-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.042	160.1	92538	0.7	0.5	
Be	9	1	No Gas	0.000	732.9	82	7.1	0.5	
V	51	2	He	-0.088	-8.1	4534	0.9	2.5	
Cr	52	2	He	-0.126	-28.0	8073	4.9	2.5	
Fe	56	2	He	-0.001	-15493.6	51327	2.2	100	
Se	78	2	He	0.060	248.8	274	7.9	1	
As	75	2	He	-0.038	-32.4	310	6.0	2.5	
Ca	44	2	He	-6.640	-41.1	2070	7.8	100	
Na	23	2	He	-129.384	-2.7	251968	0.9	100	
Mg	24	2	He	-0.259	-98.8	2087	12.9	100	
K	39	2	He	-12.280	-22.0	159153	0.7	100	
Mn	55	2	He	-0.126	-6.9	2380	1.5	2.5	
Co	59	2	He	-0.006	-45.7	160	25.0	2.5	
Ni	60	2	He	-0.021	-264.9	1177	18.2	2.5	
Cu	63	2	He	-0.045	-20.5	1373	8.0	1	
Zn	66	2	He	-0.783	-8.5	2734	6.2	2.5	
Al	27	2	He	-0.518	-77.3	10614	2.4	5	
B	11	1	No Gas	0.040	300.4	13934	1.8	0.5	
Al	27	1	No Gas	-0.327	-42.0	358006	0.9	5	
Si	28	1	No Gas	-4.556	-31.8	1382120	0.8	10	
Ag	107	1	No Gas	-0.012	-6.6	307	8.2	2.5	
Cd	111	1	No Gas	-0.004	-28.1	13	43.3	1	
Sr	88	1	No Gas	-0.004	-25.2	3380	1.6	2.5	
Mo	95	1	No Gas	0.009	30.2	373	8.2	2.5	
Sn	118	1	No Gas	-0.017	-19.0	3544	1.6	5	
Sb	121	1	No Gas	0.002	284.7	537	29.1	2.5	
Ba	137	1	No Gas	0.027	48.5	880	13.4	2.5	
Tl	205	1	No Gas	-0.002	-90.3	767	11.8	1	
Tl	203	1	No Gas	-0.002	-145.2	350	17.8	1	
Pb	208	1	No Gas	-0.016	-9.6	1463	8.7	2.5	
U	238	1	No Gas	0.000	140.4	677	6.0	2.5	
Ca	43	2	He	-7.188	-36.0	120	8.3	100	
Sb	121	2	He	0.001	263.7	270	16.1	2.5	
Ti	47	2	He	-0.020	-75.7	13	43.3	2.5	
Se	82	1	No Gas	0.100	288.2	840	11.4	1	
Zr	90	1	No Gas	0.027	17.6	2737	6.1	2.5	
Zr	90	2	He	0.031	28.9	2030	9.2	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1611484	0.92	1626896	99.05	70	120	
Ge	72	2	He	1386072	1.85	1361459	101.81	70	120	
Ge	72	1	No Gas	4259249	0.46	4246540	100.30	70	120	
In	115	1	No Gas	4897516	0.64	4838645	101.22	70	120	
Bi	209	1	No Gas	4600442	1.11	4469823	102.92	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	211_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:30:03-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.762	5.135	2177348	2.60	100	100.8	90	110	
Be	9	1	No Gas	97.317	3.410	530229	1.46	100	97.3	90	110	
V	51	2	He	99.310	0.936	1011731	2.13	100	99.3	90	110	
Cr	52	2	He	103.400	0.981	1167003	2.41	100	103.4	90	110	
Fe	56	2	He	10147.417	0.920	101378658	2.10	10000	101.5	90	110	
Se	78	2	He	101.514	1.699	16339	1.84	100	101.5	90	110	
As	75	2	He	101.270	0.880	180814	0.67	100	101.3	90	110	
Ca	44	2	He	9205.211	0.841	628326	0.70	10000	92.1	90	110	
Na	23	2	He	10166.286	0.547	16667158	1.91	10000	101.7	90	110	
Mg	24	2	He	10227.257	0.826	10543285	0.68	10000	102.3	90	110	
K	39	2	He	10151.369	2.363	12524246	0.89	10000	101.5	90	110	
Mn	55	2	He	99.312	1.018	836903	0.57	100	99.3	90	110	
Co	59	2	He	103.635	1.788	1690095	0.82	100	103.6	90	110	
Ni	60	2	He	101.214	0.695	404334	1.14	100	101.2	90	110	
Cu	63	2	He	96.224	1.392	1071877	0.18	100	96.2	90	110	
Zn	66	2	He	101.070	1.117	215421	0.84	100	101.1	90	110	
Al	27	2	He	103.922	0.869	76661	0.77	100	103.9	90	110	
B	11	1	No Gas	495.932	3.050	1548436	1.55	500	99.2	90	110	
Al	27	1	No Gas	107.163	1.978	2849325	1.45	100	107.2	90	110	
Si	28	1	No Gas	501.972	0.971	7398134	0.67	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.962	3.015	2907092	2.39	100	103.0	90	110	
Cd	111	1	No Gas	100.873	2.631	561350	1.70	100	100.9	90	110	
Sr	88	1	No Gas	103.516	1.862	5543641	1.44	100	103.5	90	110	
Mo	95	1	No Gas	98.331	5.669	1107016	4.76	100	98.3	90	110	
Sn	118	1	No Gas	102.477	2.299	1787994	1.58	100	102.5	90	110	
Sb	121	1	No Gas	100.726	1.787	2554481	2.54	100	100.7	90	110	
Ba	137	1	No Gas	95.396	1.950	861498	1.00	100	95.4	90	110	
Tl	205	1	No Gas	101.450	1.775	5214753	1.64	100	101.4	90	110	
Tl	203	1	No Gas	102.122	1.396	2248292	1.65	100	102.1	90	110	
Pb	208	1	No Gas	102.392	0.613	7967270	0.80	100	102.4	90	110	
U	238	1	No Gas	101.216	0.855	8181992	0.66	100	101.2	90	110	
Ca	43	2	He	10215.240	1.656	36749	1.54	10000	102.2	90	110	
Sb	121	2	He	94.611	2.703	1232324	3.64	100	94.6	90	110	
Ti	47	2	He	100.611	0.788	35740	0.81	100	100.6	90	110	
Cu	63	1	No Gas	103.142	2.178	2253530	3.07	100	103.1	90	110	
Se	82	1	No Gas	101.172	1.946	34949	1.19	100	101.2	90	110	
Zr	90	1	No Gas	102.344	2.102	3550275	1.19	100	102.3	90	110	
Zr	90	2	He	103.243	0.781	1667716	1.49	100	103.2	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1566895	2.37	1626896	96.31	70	120	
Ge	72	2	He	1360091	1.48	1361459	99.90	70	120	
Ge	72	1	No Gas	4188490	1.06	4246540	98.63	70	120	
In	115	1	No Gas	4793428	0.96	4838645	99.07	70	120	
Bi	209	1	No Gas	4443525	0.52	4469823	99.41	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	213_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:34:48-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	102.442	1.935	2183619	1.32	100	102.4	90	110	
Be	9	1	No Gas	100.080	1.751	538117	1.35	100	100.1	90	110	
V	51	2	He	102.476	0.969	1043031	1.29	100	102.5	90	110	
Cr	52	2	He	103.396	0.322	1166056	1.17	100	103.4	90	110	
Fe	56	2	He	10203.476	1.372	101853715	0.46	10000	102.0	90	110	
Se	78	2	He	102.162	2.193	16429	1.54	100	102.2	90	110	
As	75	2	He	100.669	0.759	179627	0.73	100	100.7	90	110	
Ca	44	2	He	9288.909	0.819	633615	1.09	10000	92.9	90	110	
Na	23	2	He	10198.230	0.390	16705354	0.58	10000	102.0	90	110	
Mg	24	2	He	10306.569	0.255	10618386	0.90	10000	103.1	90	110	
K	39	2	He	10146.765	0.277	12512942	1.21	10000	101.5	90	110	
Mn	55	2	He	90.548	1.126	841200	0.85	100	90.5	90	110	
Co	59	2	He	102.838	2.369	1675977	1.63	100	102.8	90	110	
Ni	60	2	He	102.352	0.498	408590	0.63	100	102.4	90	110	
Cu	63	2	He	96.693	0.496	1076477	0.89	100	96.7	90	110	
Zn	66	2	He	101.841	0.613	216894	0.69	100	101.8	90	110	
Al	27	2	He	105.675	2.171	77718	1.42	100	105.7	90	110	
B	11	1	No Gas	509.703	1.855	1570018	1.54	500	101.9	90	110	
Al	27	1	No Gas	108.007	3.108	2835396	2.02	100	108.0	90	110	
Si	28	1	No Gas	511.409	1.045	7423448	0.79	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	104.328	1.796	2964851	2.85	100	104.3	90	110	
Cd	111	1	No Gas	101.371	1.396	567773	2.28	100	101.4	90	110	
Sr	88	1	No Gas	103.484	0.559	5576961	1.12	100	103.5	90	110	
Mo	95	1	No Gas	94.686	3.693	1072803	2.88	100	94.7	90	110	
Sn	118	1	No Gas	102.905	2.001	1807333	3.58	100	102.9	90	110	
Sb	121	1	No Gas	103.341	1.307	2590223	1.85	100	103.3	90	110	
Ba	137	1	No Gas	95.671	1.349	869511	2.00	100	95.7	90	110	
Tl	205	1	No Gas	103.021	1.084	5340301	2.34	100	103.0	90	110	
Tl	203	1	No Gas	103.209	1.687	2290891	1.00	100	103.2	90	110	
Pb	208	1	No Gas	102.644	0.905	8053384	1.37	100	102.6	90	110	
U	238	1	No Gas	100.535	0.390	8195205	1.69	100	100.5	90	110	
Ca	43	2	He	10292.683	1.731	37000	0.83	10000	102.9	90	110	
Sb	121	2	He	98.267	0.325	1278904	1.24	100	98.3	90	110	
Ti	47	2	He	101.540	1.718	36045	1.26	100	101.5	90	110	
Cu	63	1	No Gas	104.321	2.368	2252497	2.73	100	104.3	90	110	
Se	82	1	No Gas	103.633	2.069	35367	1.97	100	103.6	90	110	
Zr	90	1	No Gas	103.463	0.329	3612221	1.87	100	103.5	90	110	
Zr	90	2	He	103.589	0.763	1672072	0.18	100	103.6	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	1545605	0.58	1626896	95.00	70	120	
Ge	72	2	He	1359137	0.94	1361459	99.83	70	120	
Ge	72	1	No Gas	4139772	0.75	4246540	97.49	70	120	
In	115	1	No Gas	4823570	1.60	4838645	99.69	70	120	
Bi	209	1	No Gas	4480666	1.41	4469823	100.24	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	214_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:37:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.176	51.9	95922	0.6	0.5	
Be	9	1	No Gas	0.023	5.4	213	5.9	0.5	
V	51	2	He	-0.159	-5.4	3781	1.4	2.5	
Cr	52	2	He	-0.106	-20.5	8259	2.7	2.5	
Fe	56	2	He	0.696	8.6	58124	1.6	100	
Se	78	2	He	-0.117	-135.6	245	11.9	2	
As	75	2	He	-0.020	-124.6	341	14.4	2.5	
Ca	44	2	He	-3.740	-112.3	2260	12.5	100	
Na	23	2	He	-144.516	-0.4	226269	1.4	100	
Mg	24	2	He	0.250	87.1	2610	10.1	100	
K	39	2	He	-13.033	-8.2	157437	1.2	100	
Mn	55	2	He	-0.148	-1.6	2050	1.3	2.5	
Co	59	2	He	0.000	-1013.8	247	31.0	2.5	
Ni	60	2	He	-0.042	-37.1	1087	4.5	2.5	
Cu	63	2	He	-0.072	-9.0	1060	6.6	2	
Zn	66	2	He	-0.754	-7.5	2780	3.2	2.5	
Al	27	2	He	0.664	76.1	11318	1.7	5	
B	11	1	No Gas	4.956	19.2	29713	7.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.719	31.9	379050	0.4	5	
Si	28	1	No Gas	-1.682	-42.4	1403484	1.1	10	
Ag	107	1	No Gas	-0.003	-92.8	587	13.2	2.5	
Cd	111	1	No Gas	0.000	183.6	37	15.7	1	
Sr	88	1	No Gas	0.005	71.0	3884	5.3	2.5	
Mo	95	1	No Gas	0.061	21.8	967	16.8	2.5	
Sn	118	1	No Gas	0.023	44.4	4264	5.0	5	
Sb	121	1	No Gas	0.060	9.2	2007	6.1	2.5	
Ba	137	1	No Gas	0.001	226.0	650	2.7	2.5	
Tl	205	1	No Gas	0.121	48.5	7119	42.1	1	
Tl	203	1	No Gas	0.108	42.9	2784	36.4	1	
Pb	208	1	No Gas	-0.005	-68.9	2247	12.3	2.5	
U	238	1	No Gas	0.008	5.4	1300	2.0	2.5	
Ca	43	2	He	-3.302	-400.1	133	35.4	100	
Sb	121	2	He	0.039	22.7	763	15.7	2.5	
Ti	47	2	He	0.017	462.8	27	108.3	2.5	
Cu	63	1	No Gas	-0.085	-11.3	9233	2.5	2.5	
Se	82	1	No Gas	0.162	57.7	853	2.9	2	
Zr	90	1	No Gas	0.121	29.4	6118	21.1	2.5	
Zr	90	2	He	0.080	14.3	2810	7.0	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1620921	2.58	1626896	99.63	70	120	
Ge	72	2	He	1378939	1.46	1361459	101.28	70	120	
Ge	72	1	No Gas	4218635	1.06	4246540	99.34	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4914471	2.24	4838645	101.57	70	120	
Bi	209	1	No Gas	4495573	0.77	4469823	100.58	70	120	

Sample Report

Sample Table

Sample Name	LCS-210597
Data File Name	216SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:41:50-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	0.328	0.328	21.36	96008	0.00	2000	
Be	9	1	No Gas	43.917	43.917	2.52	239638	0.02	2000	
V	51	2	He	41.224	41.224	3.10	421994	0.01	2000	
Cr	52	2	He	42.080	42.080	1.91	479231	0.01	2000	
Fe	56	2	He	4642.991	4642.991	3.91	46291168	0.01	200000	
Se	78	2	He	44.976	44.976	3.06	7366	0.61	2000	
As	75	2	He	44.820	44.820	1.88	80039	0.06	2000	
Ca	44	2	He	4301.845	4301.845	2.59	294239	1.46	200000	
Na	23	2	He	4617.433	4617.433	2.56	7797914	0.06	200000	
Mg	24	2	He	4773.656	4773.656	2.70	4910526	0.10	200000	
K	39	2	He	4738.102	4738.102	3.03	5923317	0.08	200000	
Mn	55	2	He	39.722	39.722	2.75	370267	0.01	2000	
Co	59	2	He	43.953	43.953	2.40	715238	0.01	2000	
Ni	60	2	He	45.552	45.552	1.95	182216	0.02	2000	
Cu	63	2	He	43.315	43.315	0.94	482404	0.01	2000	
Zn	66	2	He	45.072	45.072	3.58	98214	0.05	2000	
Al	27	2	He	101.967	101.967	2.97	75237	0.14	2000	
B	11	1	No Gas	493.195	493.195	1.49	1542064	0.03	2000	
Al	27	1	No Gas	100.993	100.993	5.35	2747804	0.00	2000	
Si	28	1	No Gas	609.767	609.767	4.18	8818226	0.01	2000	
Ag	107	1	No Gas	45.194	45.194	5.13	1278083	0.00	2000	
Cd	111	1	No Gas	45.833	45.833	3.33	255334	0.02	2000	
Sr	88	1	No Gas	99.554	99.554	4.56	5335147	0.00	2000	
Mo	95	1	No Gas	40.672	40.672	3.07	458644	0.01	2000	
Sn	118	1	No Gas	98.071	98.071	4.39	1712534	0.01	2000	
Sb	121	1	No Gas	41.671	41.671	3.35	1073382	0.00	2000	
Ba	137	1	No Gas	42.353	42.353	5.58	383018	0.01	2000	
Tl	205	1	No Gas	44.969	44.969	1.84	2289998	0.00	2000	
Tl	203	1	No Gas	39.740	39.740	2.38	866836	0.00	2000	
Pb	208	1	No Gas	44.438	44.438	0.69	3426198	0.00	2000	
U	238	1	No Gas	0.001	0.001	100.48	710	0.00	2000	
Ca	43	2	He	4855.283	4855.283	4.07	17498	27.75	200000	
Sb	121	2	He	39.684	39.684	2.34	515672	0.01	2000	
Ti	47	2	He	139.598	139.598	3.63	49456	0.28	2000	
Cu	63	1	No Gas	42.672	42.672	2.18	953382	0.00	2000	
Zn	66	1	No Gas	45.134	45.134	3.11	263658	0.02	2000	
Se	82	1	No Gas	43.183	43.183	1.51	15616	0.28	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	1568735	2.33	1626896	96.43	70	120	
Ge	72	2	He	1356861	0.93	1361459	99.66	70	120	
Ge	72	1	No Gas	4255460	2.17	4246540	100.21	70	120	
In	115	1	No Gas	4800666	3.09	4838645	99.22	70	120	

Sample Report

Bi	209	1	No Gas	4401106	2.25	4469823	98.46	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01SD
Data File Name	218SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:46:32-05:00
Sample Type	Sample
Dilution	5
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	25.376	126.880	1.94	646053	0.00	2000	
Be	9	1	No Gas	0.006	0.031	96.20	118	0.01	2000	
V	51	2	He	5.155	25.775	3.15	59324	0.01	2000	
Cr	52	2	He	0.089	0.447	10.34	10651	0.00	2000	
Fe	56	2	He	260.460	1302.299	5.15	2730632	0.01	200000	
Se	78	2	He	1.324	6.618	12.81	483	0.27	2000	
As	75	2	He	1.534	7.670	2.64	3200	0.05	2000	
Ca	44	2	He	7638.326	38191.628	3.58	537582	1.42	200000	
Na	23	2	He	32675.283	163376.416	4.32	54143993	0.06	200000	
Mg	24	2	He	12225.724	61128.620	3.96	12983716	0.09	200000	
K	39	2	He	2885.697	14428.487	3.15	3794946	0.08	200000	
Mn	55	2	He	52.875	264.374	3.52	507871	0.01	2000	
Co	59	2	He	0.080	0.399	5.05	1597	0.00	2000	
Ni	60	2	He	0.179	0.895	2.52	2014	0.01	2000	
Cu	63	2	He	0.023	0.116	46.38	2167	0.00	2000	
Zn	66	2	He	1.861	9.304	16.76	8449	0.02	2000	
Al	27	2	He	17.353	86.766	9.53	22426	0.08	2000	
B	11	1	No Gas	156.822	784.111	2.04	523841	0.03	2000	
Al	27	1	No Gas	15.080	75.402	4.77	728611	0.00	2000	
Si	28	1	No Gas	4064.230	20321.148	4.55	51163083	0.01	2000	>LDR
Ag	107	1	No Gas	-0.012	-0.061	-17.96	313	0.00	2000	
Cd	111	1	No Gas	-0.001	-0.006	-171.74	27	0.00	2000	
Sr	88	1	No Gas	661.797	3308.983	1.68	36102034	0.00	2000	
Mo	95	1	No Gas	2.177	10.883	2.93	25238	0.01	2000	
Sn	118	1	No Gas	0.115	0.573	14.03	5871	0.00	2000	
Sb	121	1	No Gas	0.028	0.142	10.63	1227	0.00	2000	
Ba	137	1	No Gas	8.645	43.224	3.59	80134	0.01	2000	
Tl	205	1	No Gas	0.004	0.018	133.17	1020	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	-5607.01	373	0.00	2000	
Pb	208	1	No Gas	0.003	0.013	40.32	2814	0.00	2000	
U	238	1	No Gas	4.066	20.330	0.60	327196	0.00	2000	
Ca	43	2	He	9479.993	47399.967	4.20	35145	26.97	200000	
Sb	121	2	He	0.029	0.144	17.99	643	0.00	2000	
Ti	47	2	He	0.455	2.273	39.78	187	0.24	2000	
Cu	63	1	No Gas	0.178	0.889	8.67	15269	0.00	2000	
Zn	66	1	No Gas	1.843	9.217	5.39	22896	0.01	2000	
Se	82	1	No Gas	1.446	7.231	26.76	1313	0.11	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	1644882	0.45	1626896	101.11	70	120	
Ge	72	2	He	1401756	1.90	1361459	102.96	70	120	
Ge	72	1	No Gas	4299212	1.89	4246540	101.24	70	120	
In	115	1	No Gas	4885484	1.04	4838645	100.97	70	120	

Sample Report

Bi	209	1	No Gas	4415119	0.70	4469823	98.78	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01MS
Data File Name	219SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:48:52-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	138.299	138.299	0.89	2808669	0.00	2000	
Be	9	1	No Gas	46.254	46.254	1.26	239488	0.02	2000	
V	51	2	He	63.010	63.010	0.88	647820	0.01	2000	
Cr	52	2	He	41.217	41.217	0.26	473659	0.01	2000	
Fe	56	2	He	5760.009	5760.009	0.52	57919716	0.01	200000	
Se	78	2	He	50.280	50.280	1.26	8275	0.61	2000	
As	75	2	He	52.407	52.407	1.64	94341	0.06	2000	
Ca	44	2	He	48220.977	48220.977	2.14	3301601	1.46	200000	
Na	23	2	He	165774.591	165774.591	1.31	266457443	0.06	200000	
Mg	24	2	He	63749.128	63749.128	1.68	66120772	0.10	200000	
K	39	2	He	18146.390	18146.390	1.51	22396466	0.08	200000	
Mn	55	2	He	344.134	344.134	1.74	3209463	0.01	2000	
Co	59	2	He	42.221	42.221	0.20	693034	0.01	2000	
Ni	60	2	He	43.867	43.867	1.51	177033	0.02	2000	
Cu	63	2	He	41.029	41.029	0.81	460986	0.01	2000	
Zn	66	2	He	54.755	54.755	1.25	119430	0.05	2000	
Al	27	2	He	172.686	172.686	2.95	121041	0.14	2000	
B	11	1	No Gas	1321.195	1321.195	1.65	3897872	0.03	2000	
Al	27	1	No Gas	188.859	188.859	9.65	4751373	0.00	2000	
Si	28	1	No Gas	20328.088	20328.088	2.67	243887056	0.01	2000	>LDR
Ag	107	1	No Gas	44.802	44.802	9.36	1237699	0.00	2000	
Cd	111	1	No Gas	45.298	45.298	2.70	246778	0.02	2000	
Sr	88	1	No Gas	3431.014	3431.014	3.04	179732604	0.00	2000	>LDR
Mo	95	1	No Gas	52.965	52.965	2.44	583949	0.01	2000	
Sn	118	1	No Gas	96.007	96.007	2.56	1639957	0.01	2000	
Sb	121	1	No Gas	42.199	42.199	1.70	1070820	0.00	2000	
Ba	137	1	No Gas	86.498	86.498	1.90	764759	0.01	2000	
Tl	205	1	No Gas	45.111	45.111	3.65	2214507	0.00	2000	
Tl	203	1	No Gas	39.994	39.994	3.99	840877	0.00	2000	
Pb	208	1	No Gas	45.380	45.380	2.92	3373388	0.00	2000	
U	238	1	No Gas	22.727	22.727	2.75	1755186	0.00	2000	
Ca	43	2	He	50563.831	50563.831	2.07	182484	27.71	200000	
Sb	121	2	He	39.107	39.107	0.88	512610	0.01	2000	
Ti	47	2	He	138.265	138.265	0.53	49413	0.28	2000	
Cu	63	1	No Gas	43.341	43.341	2.21	953604	0.00	2000	
Zn	66	1	No Gas	57.244	57.244	2.37	326137	0.02	2000	
Se	82	1	No Gas	53.640	53.640	3.28	18910	0.28	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	1488001	0.14	1626896	91.46	70	120	
Ge	72	2	He	1368439	0.75	1361459	100.51	70	120	
Ge	72	1	No Gas	4190534	0.86	4246540	98.68	70	120	
In	115	1	No Gas	4692982	1.80	4838645	96.99	70	120	
Bi	209	1	No Gas	4245392	2.64	4469823	94.98	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01PDS
Data File Name	221SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T18:53:33-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	136.016	136.016	4.32	2776968	0.00	2000	
Be	9	1	No Gas	94.457	94.457	2.66	491355	0.02	2000	
V	51	2	He	120.635	120.635	1.67	1220507	0.01	2000	
Cr	52	2	He	94.452	94.452	2.66	1060250	0.01	2000	
Fe	56	2	He	10659.859	10659.859	1.37	105854722	0.01	200000	
Se	78	2	He	97.887	97.887	2.78	15671	0.62	2000	
As	75	2	He	101.855	101.855	2.16	180791	0.06	2000	
Ca	44	2	He	51415.891	51415.891	1.90	3477876	1.48	200000	
Na	23	2	He	165628.721	165628.721	1.82	262990696	0.06	200000	
Mg	24	2	He	67983.083	67983.083	1.56	69659229	0.10	200000	
K	39	2	He	23023.452	23023.452	2.01	28024503	0.08	200000	
Mn	55	2	He	380.838	380.838	0.59	3508970	0.01	2000	
Co	59	2	He	92.659	92.659	1.08	1502506	0.01	2000	
Ni	60	2	He	90.343	90.343	1.88	358930	0.03	2000	
Cu	63	2	He	85.919	85.919	2.34	951731	0.01	2000	
Zn	66	2	He	103.259	103.259	2.45	218712	0.05	2000	
Al	27	2	He	171.631	171.631	4.49	118986	0.14	2000	
B	11	1	No Gas	1267.542	1267.542	2.58	3757941	0.03	2000	
Al	27	1	No Gas	163.729	163.729	3.97	4162479	0.00	2000	
Si	28	1	No Gas	19352.445	19352.445	1.87	232096337	0.01	2000	>LDR
Ag	107	1	No Gas	92.984	92.984	1.76	2591957	0.00	2000	
Cd	111	1	No Gas	94.371	94.371	0.62	518576	0.02	2000	
Sr	88	1	No Gas	3144.457	3144.457	1.76	166137758	0.00	2000	>LDR
Mo	95	1	No Gas	106.823	106.823	3.80	1187150	0.01	2000	
Sn	118	1	No Gas	0.611	0.611	0.99	14218	0.00	2000	
Sb	121	1	No Gas	93.733	93.733	3.67	2376405	0.00	2000	
Ba	137	1	No Gas	134.779	134.779	5.07	1200756	0.01	2000	
Tl	205	1	No Gas	103.587	103.587	0.57	5066919	0.00	2000	
Tl	203	1	No Gas	103.625	103.625	3.61	2170757	0.00	2000	
Pb	208	1	No Gas	96.963	96.963	2.02	7179422	0.00	2000	
U	238	1	No Gas	22.082	22.082	0.61	1699132	0.00	2000	
Ca	43	2	He	54518.124	54518.124	2.41	194350	28.05	200000	
Sb	121	2	He	81.829	81.829	0.73	1059442	0.01	2000	
Ti	47	2	He	98.933	98.933	3.76	34928	0.28	2000	
Cu	63	1	No Gas	94.328	94.328	2.07	2061188	0.00	2000	
Zn	66	1	No Gas	104.969	104.969	1.67	587486	0.02	2000	
Se	82	1	No Gas	99.912	99.912	3.16	34518	0.29	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	1495595	2.01	1626896	91.93	70	120	
Ge	72	2	He	1352179	2.01	1361459	99.32	70	120	
Ge	72	1	No Gas	4187819	0.68	4246540	98.62	70	120	
In	115	1	No Gas	4732895	2.32	4838645	97.81	70	120	
Bi	209	1	No Gas	4228460	0.43	4469823	94.60	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	225_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:02:55-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	103.114	4.150	2183725	2.47	100	103.1	90	110	
Be	9	1	No Gas	99.242	3.559	530331	2.26	100	99.2	90	110	
V	51	2	He	98.559	2.914	990044	3.19	100	98.6	90	110	
Cr	52	2	He	103.340	1.110	1150108	2.75	100	103.3	90	110	
Fe	56	2	He	10203.716	0.799	100513752	1.76	10000	102.0	90	110	
Se	78	2	He	99.907	1.921	15859	1.28	100	99.9	90	110	
As	75	2	He	99.623	0.393	175416	1.80	100	99.6	90	110	
Ca	44	2	He	9149.191	0.763	615864	1.90	10000	91.5	90	110	
Na	23	2	He	10237.518	1.578	16543506	0.61	10000	102.4	90	110	
Mg	24	2	He	10297.737	1.101	10467863	1.21	10000	103.0	90	110	
K	39	2	He	10151.962	1.183	12351942	1.09	10000	101.5	90	110	
Mn	55	2	He	90.596	0.734	830501	1.57	100	90.6	90	110	
Co	59	2	He	103.936	1.502	1672018	3.43	100	103.9	90	110	
Ni	60	2	He	101.444	1.473	399566	0.99	100	101.4	90	110	
Cu	63	2	He	99.933	4.060	1097706	4.19	100	99.9	90	110	
Zn	66	2	He	100.799	1.241	211853	0.80	100	100.8	90	110	
Al	27	2	He	103.298	0.742	75206	1.67	100	103.3	90	110	
B	11	1	No Gas	522.730	4.102	1599622	1.93	500	104.5	90	110	
Al	27	1	No Gas	106.951	2.398	2793240	2.39	100	107.0	90	110	
Si	28	1	No Gas	518.282	5.402	7458695	5.71	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.087	1.866	2926785	2.36	100	102.1	90	110	
Cd	111	1	No Gas	100.790	1.367	569523	1.78	100	100.8	90	110	
Sr	88	1	No Gas	102.772	0.956	5588106	1.49	100	102.8	90	110	
Mo	95	1	No Gas	93.447	1.744	1068384	1.63	100	93.4	90	110	
Sn	118	1	No Gas	102.009	2.619	1807239	3.05	100	102.0	90	110	
Sb	121	1	No Gas	104.001	0.273	2589896	1.82	100	104.0	90	110	
Ba	137	1	No Gas	94.022	0.566	862125	1.02	100	94.0	90	110	
Tl	205	1	No Gas	101.381	2.503	5285799	0.89	100	101.4	90	110	
Tl	203	1	No Gas	102.276	3.729	2283519	2.18	100	102.3	90	110	
Pb	208	1	No Gas	103.443	3.243	8163452	1.76	100	103.4	90	110	
U	238	1	No Gas	101.225	2.438	8299807	0.86	100	101.2	90	110	
Ca	43	2	He	10163.404	3.243	36048	2.32	10000	101.6	90	110	
Sb	121	2	He	99.255	0.531	1274706	2.26	100	99.3	90	110	
Ti	47	2	He	100.494	2.286	35195	1.08	100	100.5	90	110	
Cu	63	1	No Gas	103.752	2.474	2225611	2.74	100	103.8	90	110	
Se	82	1	No Gas	102.318	2.680	34699	2.26	100	102.3	90	110	
Zr	90	1	No Gas	100.899	0.931	3553918	1.42	100	100.9	90	110	
Zr	90	2	He	103.338	2.000	1645866	2.10	100	103.3	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	1536659	2.21	1626896	94.45	70	120	
Ge	72	2	He	1341181	2.01	1361459	98.51	70	120	
Ge	72	1	No Gas	4113086	1.69	4246540	96.86	70	120	
In	115	1	No Gas	4866259	0.54	4838645	100.57	70	120	
Bi	209	1	No Gas	4508227	1.64	4469823	100.86	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	226_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:05:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.079	43.1	92334	0.1	0.5	
Be	9	1	No Gas	0.026	13.0	222	9.1	0.5	
V	51	2	He	0.170	18.1	7084	3.1	2.5	
Cr	52	2	He	-0.129	-22.3	7909	3.7	2.5	
Fe	56	2	He	0.547	17.2	55985	0.8	100	
Se	78	2	He	-0.062	-314.6	251	13.9	2	
As	75	2	He	-0.013	-140.8	349	8.3	2.5	
Ca	44	2	He	-5.939	-14.0	2087	4.5	100	
Na	23	2	He	-149.354	-1.0	216016	1.7	100	
Mg	24	2	He	0.674	16.7	3017	3.6	100	
K	39	2	He	-16.057	-17.1	151970	0.5	100	
Mn	55	2	He	-0.154	-7.6	1977	6.9	2.5	
Co	59	2	He	-0.001	-686.8	240	34.1	2.5	
Ni	60	2	He	-0.058	-60.6	1013	15.7	2.5	
Cu	63	2	He	-0.060	-18.9	1177	11.3	2	
Zn	66	2	He	-0.823	-6.7	2607	5.8	2.5	
Al	27	2	He	0.412	234.9	11028	3.9	5	
B	11	1	No Gas	8.468	9.6	40338	5.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.293	61.4	366947	0.7	5	
Si	28	1	No Gas	-10.228	-9.6	1293259	0.6	10	
Ag	107	1	No Gas	-0.006	-17.7	483	6.3	2.5	
Cd	111	1	No Gas	0.001	408.7	37	41.7	1	
Sr	88	1	No Gas	0.033	14.6	5274	6.0	2.5	
Mo	95	1	No Gas	0.060	33.4	933	25.1	2.5	
Sn	118	1	No Gas	0.019	59.9	4101	5.5	5	
Sb	121	1	No Gas	0.052	20.9	1797	15.3	2.5	
Ba	137	1	No Gas	-0.007	-96.8	560	9.9	2.5	
Tl	205	1	No Gas	0.111	40.5	6766	37.8	1	
Tl	203	1	No Gas	0.098	50.8	2617	45.6	1	
Pb	208	1	No Gas	-0.011	-7.4	1820	3.1	2.5	
U	238	1	No Gas	0.007	17.1	1210	10.0	2.5	
Ca	43	2	He	-9.452	-23.7	110	9.1	100	
Sb	121	2	He	0.037	19.2	733	13.7	2.5	
Ti	47	2	He	-0.029	-1.7	10	0.0	2.5	
Cu	63	1	No Gas	-0.252	-2.6	5545	2.2	2.5	
Se	82	1	No Gas	0.129	312.2	837	15.6	2	
Zr	90	1	No Gas	0.103	28.9	5335	20.5	2.5	
Zr	90	2	He	0.060	20.9	2460	8.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1594559	0.86	1626896	98.01	70	120	
Ge	72	2	He	1363655	1.77	1361459	100.16	70	120	
Ge	72	1	No Gas	4194075	0.75	4246540	98.76	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4792635	1.12	4838645	99.05	70	120	
Bi	209	1	No Gas	4560251	2.66	4469823	102.02	70	120	

Sample Report

Sample Table

Sample Name	LCS-210597
Data File Name	227SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:07:36-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	106.788	106.788	3.15	2196762	0.00	2000	
Be	9	1	No Gas	50.434	50.434	2.76	262145	0.02	2000	
V	51	2	He	46.610	46.610	2.08	471145	0.01	2000	
Cr	52	2	He	47.722	47.722	2.48	536119	0.01	2000	
Fe	56	2	He	5238.079	5238.079	2.55	51632308	0.01	200000	
Se	78	2	He	50.694	50.694	3.88	8177	0.62	2000	
As	75	2	He	50.012	50.012	2.28	88270	0.06	2000	
Ca	44	2	He	4770.264	4770.264	3.31	322359	1.48	200000	
Na	23	2	He	5178.165	5178.165	1.52	8594064	0.06	200000	
Mg	24	2	He	5394.245	5394.245	2.55	5486772	0.10	200000	
K	39	2	He	5232.271	5232.271	1.47	6451147	0.08	200000	
Mn	55	2	He	45.456	45.456	2.54	418468	0.01	2000	
Co	59	2	He	49.040	49.040	3.03	788994	0.01	2000	
Ni	60	2	He	50.586	50.586	1.95	199955	0.03	2000	
Cu	63	2	He	48.932	48.932	3.03	538499	0.01	2000	
Zn	66	2	He	51.703	51.703	3.35	110767	0.05	2000	
Al	27	2	He	122.394	122.394	2.62	87177	0.14	2000	
B	11	1	No Gas	537.029	537.029	2.71	1598046	0.03	2000	
Al	27	1	No Gas	124.559	124.559	2.97	3216743	0.00	2000	
Si	28	1	No Gas	619.775	619.775	3.58	8702449	0.01	2000	
Ag	107	1	No Gas	53.104	53.104	2.62	1507672	0.00	2000	
Cd	111	1	No Gas	50.847	50.847	1.29	284556	0.02	2000	
Sr	88	1	No Gas	106.513	106.513	1.32	5736285	0.00	2000	
Mo	95	1	No Gas	44.713	44.713	0.91	506405	0.01	2000	
Sn	118	1	No Gas	105.319	105.319	2.77	1847461	0.01	2000	
Sb	121	1	No Gas	50.900	50.900	7.43	1275459	0.00	2000	
Ba	137	1	No Gas	48.333	48.333	1.96	439144	0.01	2000	
Tl	205	1	No Gas	50.087	50.087	0.90	2649737	0.00	2000	
Tl	203	1	No Gas	44.547	44.547	0.94	1009437	0.00	2000	
Pb	208	1	No Gas	50.065	50.065	0.72	4010201	0.00	2000	
U	238	1	No Gas	94.987	94.987	1.20	7901675	0.00	2000	
Ca	43	2	He	5425.258	5425.258	1.71	19317	28.09	200000	
Sb	121	2	He	44.938	44.938	2.43	577445	0.01	2000	
Ti	47	2	He	150.651	150.651	2.36	52775	0.29	2000	
Cu	63	1	No Gas	48.921	48.921	2.44	1062416	0.00	2000	
Zn	66	1	No Gas	52.884	52.884	2.22	298718	0.02	2000	
Se	82	1	No Gas	50.858	50.858	3.80	17759	0.29	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	1494399	2.64	1626896	91.86	70	120	
Ge	72	2	He	1341761	2.37	1361459	98.55	70	120	
Ge	72	1	No Gas	4142818	2.64	4246540	97.56	70	120	
In	115	1	No Gas	4819679	1.71	4838645	99.61	70	120	

Sample Report

Bi	209	1	No Gas	4572476	0.54	4469823	102.30	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01SD
Data File Name	229SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:12:16-05:00
Sample Type	Sample
Dilution	100
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	1.330	132.950	7.29	116265	0.00	2000	
Be	9	1	No Gas	0.010	0.985	45.49	132	0.01	2000	
V	51	2	He	0.464	46.371	2.31	10096	0.00	2000	
Cr	52	2	He	-0.113	-11.266	-12.02	8113	0.00	2000	
Fe	56	2	He	11.612	1161.151	1.40	167207	0.01	200000	
Se	78	2	He	0.046	4.585	220.87	268	0.02	2000	
As	75	2	He	0.028	2.759	14.09	423	0.01	2000	
Ca	44	2	He	358.312	35831.181	2.51	26977	1.33	200000	
Na	23	2	He	1460.092	146009.231	0.74	2796331	0.05	200000	
Mg	24	2	He	544.683	54468.347	0.88	566614	0.10	200000	
K	39	2	He	111.567	11156.712	4.00	308457	0.04	200000	
Mn	55	2	He	2.403	240.296	3.22	25785	0.01	2000	
Co	59	2	He	0.001	0.078	670.43	263	0.00	2000	
Ni	60	2	He	-0.040	-3.977	-90.60	1087	0.00	2000	
Cu	63	2	He	-0.062	-6.183	-21.63	1160	-0.01	2000	
Zn	66	2	He	-0.368	-36.785	-12.21	3567	-0.01	2000	
Al	27	2	He	0.203	20.260	101.40	10931	0.00	2000	
B	11	1	No Gas	11.731	1173.103	1.49	49581	0.02	2000	
Al	27	1	No Gas	0.664	66.366	29.58	372286	0.00	2000	
Si	28	1	No Gas	182.117	18211.721	1.31	3558370	0.01	2000	
Ag	107	1	No Gas	-0.009	-0.934	-22.45	390	0.00	2000	
Cd	111	1	No Gas	-0.001	-0.059	-291.18	30	0.00	2000	
Sr	88	1	No Gas	33.043	3304.333	2.84	1786090	0.00	2000	
Mo	95	1	No Gas	0.121	12.109	4.16	1637	0.01	2000	
Sn	118	1	No Gas	0.002	0.156	412.44	3824	0.00	2000	
Sb	121	1	No Gas	0.008	0.793	32.23	670	0.00	2000	
Ba	137	1	No Gas	0.407	40.692	4.68	4327	0.01	2000	
Tl	205	1	No Gas	0.004	0.404	117.60	1063	0.00	2000	
Tl	203	1	No Gas	-0.001	-0.075	-418.52	367	0.00	2000	
Pb	208	1	No Gas	-0.016	-1.567	-4.76	1440	0.00	2000	
U	238	1	No Gas	0.198	19.833	0.48	16925	0.00	2000	
Ca	43	2	He	424.267	42426.701	11.36	1670	25.40	200000	
Sb	121	2	He	0.007	0.735	81.56	347	0.00	2000	
Ti	47	2	He	0.028	2.821	269.26	30	0.09	2000	
Cu	63	1	No Gas	-0.224	-22.387	-5.16	6095	0.00	2000	
Zn	66	1	No Gas	-0.366	-36.569	-24.32	10124	0.00	2000	
Se	82	1	No Gas	-0.021	-2.106	-452.04	780	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1561409	1.38	1626896	95.97	70	120	
Ge	72	2	He	1367086	2.13	1361459	100.41	70	120	
Ge	72	1	No Gas	4157612	1.30	4246540	97.91	70	120	
In	115	1	No Gas	4832319	1.30	4838645	99.87	70	120	

Sample Report

Bi	209	1	No Gas	4514745	1.26	4469823	101.01	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01PDS
Data File Name	230SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:14:36-05:00
Sample Type	Sample
Dilution	20
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	6.570	131.409	1.54	214698	0.00	2000	
Be	9	1	No Gas	93.319	1866.376	1.06	484606	0.02	2000	
V	51	2	He	82.400	1647.994	2.32	818089	0.01	2000	
Cr	52	2	He	82.099	1641.978	2.18	903826	0.01	2000	
Fe	56	2	He	9323.696	186473.919	1.46	90675905	0.01	200000	
Se	78	2	He	88.830	1776.595	1.94	13951	0.64	2000	
As	75	2	He	89.825	1796.494	0.86	156190	0.06	2000	
Ca	44	2	He	9917.559	198351.187	1.67	658871	1.51	200000	
Na	23	2	He	16808.559	336171.186	2.28	26537171	0.06	200000	
Mg	24	2	He	12050.557	241011.145	1.97	12094126	0.10	200000	
K	39	2	He	9783.950	195678.992	1.54	11758136	0.08	200000	
Mn	55	2	He	91.430	1828.591	1.25	827432	0.01	2000	
Co	59	2	He	90.660	1813.205	3.26	1439283	0.01	2000	
Ni	60	2	He	88.442	1768.847	1.53	344096	0.03	2000	
Cu	63	2	He	83.994	1679.884	1.61	911210	0.01	2000	
Zn	66	2	He	90.272	1805.436	2.22	187780	0.05	2000	
Al	27	2	He	94.289	1885.785	2.19	68686	0.14	2000	
B	11	1	No Gas	544.704	10894.084	1.30	1619434	0.03	2000	
Al	27	1	No Gas	98.908	1978.152	2.11	2626083	0.00	2000	
Si	28	1	No Gas	1427.018	28540.366	2.40	18209633	0.01	2000	
Ag	107	1	No Gas	91.473	1829.461	1.41	2540176	0.00	2000	
Cd	111	1	No Gas	93.214	1864.287	0.84	510154	0.02	2000	
Sr	88	1	No Gas	157.572	3151.449	1.31	8296392	0.00	2000	
Mo	95	1	No Gas	84.802	1696.044	0.86	939145	0.01	2000	
Sn	118	1	No Gas	0.005	0.103	102.49	3791	0.00	2000	
Sb	121	1	No Gas	91.519	1830.385	1.91	2293495	0.00	2000	
Ba	137	1	No Gas	90.012	1800.234	0.53	799395	0.01	2000	
Tl	205	1	No Gas	102.379	2047.576	1.64	5205935	0.00	2000	
Tl	203	1	No Gas	104.267	2085.341	2.65	2271019	0.00	2000	
Pb	208	1	No Gas	94.028	1880.563	1.12	7237983	0.00	2000	
U	238	1	No Gas	1.002	20.043	3.49	80770	0.00	2000	
Ca	43	2	He	11076.025	221520.506	4.64	38775	28.56	200000	
Sb	121	2	He	77.685	1553.705	2.56	984917	0.01	2000	
Ti	47	2	He	89.881	1797.612	2.28	31086	0.29	2000	
Cu	63	1	No Gas	93.426	1868.523	2.71	2017912	0.00	2000	
Zn	66	1	No Gas	94.747	1894.932	1.78	525279	0.02	2000	
Se	82	1	No Gas	90.782	1815.630	1.41	31073	0.29	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	1492624	1.56	1626896	91.75	70	120	
Ge	72	2	He	1324023	1.58	1361459	97.25	70	120	
Ge	72	1	No Gas	4138967	0.89	4246540	97.47	70	120	
In	115	1	No Gas	4713079	1.30	4838645	97.40	70	120	

Sample Report

Bi	209	1	No Gas	4395291	1.46	4469823	98.33	70	120	

Sample Report

Sample Table

Sample Name	HS24040355-01MSD
Data File Name	231SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:16:57-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	142.253	142.253	2.05	2761029	0.01	2000	
Be	9	1	No Gas	46.948	46.948	1.09	232512	0.02	2000	
V	51	2	He	62.745	62.745	0.67	635730	0.01	2000	
Cr	52	2	He	41.662	41.662	1.28	471720	0.01	2000	
Fe	56	2	He	5727.372	5727.372	0.64	56754049	0.01	200000	
Se	78	2	He	49.862	49.862	3.11	8089	0.62	2000	
As	75	2	He	52.252	52.252	2.59	92692	0.06	2000	
Ca	44	2	He	48534.167	48534.167	0.64	3274508	1.48	200000	
Na	23	2	He	164454.834	164454.834	1.37	260498016	0.06	200000	
Mg	24	2	He	64542.435	64542.435	0.81	65966399	0.10	200000	
K	39	2	He	18349.719	18349.719	0.31	22315219	0.08	200000	
Mn	55	2	He	342.097	342.097	1.27	3144212	0.01	2000	
Co	59	2	He	42.104	42.104	0.46	681080	0.01	2000	
Ni	60	2	He	44.029	44.029	0.62	175102	0.03	2000	
Cu	63	2	He	41.195	41.195	1.09	456115	0.01	2000	
Zn	66	2	He	55.301	55.301	0.96	118821	0.05	2000	
Al	27	2	He	168.188	168.188	0.80	116440	0.14	2000	
B	11	1	No Gas	1331.487	1331.487	1.06	3757306	0.04	2000	
Al	27	1	No Gas	179.435	179.435	4.36	4362353	0.00	2000	
Si	28	1	No Gas	20086.919	20086.919	3.39	232086510	0.01	2000	>LDR
Ag	107	1	No Gas	42.173	42.173	6.77	1160703	0.00	2000	
Cd	111	1	No Gas	45.019	45.019	1.73	244160	0.02	2000	
Sr	88	1	No Gas	3311.786	3311.786	1.65	172718471	0.00	2000	>LDR
Mo	95	1	No Gas	52.329	52.329	1.48	574348	0.01	2000	
Sn	118	1	No Gas	95.276	95.276	1.52	1620188	0.01	2000	
Sb	121	1	No Gas	43.386	43.386	3.30	1060201	0.00	2000	
Ba	137	1	No Gas	86.090	86.090	1.18	757687	0.01	2000	
Tl	205	1	No Gas	44.891	44.891	3.10	2238633	0.00	2000	
Tl	203	1	No Gas	39.548	39.548	2.51	844620	0.00	2000	
Pb	208	1	No Gas	44.610	44.610	1.10	3368310	0.00	2000	
U	238	1	No Gas	22.974	22.974	1.92	1801820	0.00	2000	
Ca	43	2	He	50755.987	50755.987	0.74	180500	28.12	200000	
Sb	121	2	He	39.849	39.849	1.42	514732	0.01	2000	
Ti	47	2	He	138.827	138.827	0.88	48894	0.28	2000	
Cu	63	1	No Gas	43.240	43.240	2.28	916328	0.00	2000	
Zn	66	1	No Gas	57.290	57.290	3.05	314327	0.02	2000	
Se	82	1	No Gas	54.319	54.319	4.62	18430	0.29	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	1423351	0.46	1626896	87.49	70	120	
Ge	72	2	He	1348568	0.13	1361459	99.05	70	120	
Ge	72	1	No Gas	4037072	2.27	4246540	95.07	70	120	
In	115	1	No Gas	4670599	0.14	4838645	96.53	70	120	
Bi	209	1	No Gas	4310428	1.49	4469823	96.43	70	120	

Sample Report

Sample Table

Sample Name	HS24040786-01
Data File Name	233SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:21:38-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 210597
ISTD Ref FileName	199CALB.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	28.339	28.339	3.43	667994	0.00	2000	
Be	9	1	No Gas	0.006	0.006	24.66	112	0.01	2000	
V	51	2	He	1.388	1.388	2.74	19409	0.01	2000	
Cr	52	2	He	0.949	0.949	7.39	19948	0.00	2000	
Fe	56	2	He	43.050	43.050	2.82	480265	0.01	200000	
Se	78	2	He	0.108	0.108	30.06	277	0.04	2000	
As	75	2	He	0.261	0.261	17.19	836	0.03	2000	
Ca	44	2	He	17240.822	17240.822	1.28	1174573	1.47	200000	
Na	23	2	He	687503.764	687503.764	1.60	1096710810	0.06	200000	>LDR
Mg	24	2	He	14839.772	14839.772	2.37	15294478	0.10	200000	
K	39	2	He	1834.537	1834.537	1.20	2403817	0.08	200000	
Mn	55	2	He	29.012	29.012	1.66	272044	0.01	2000	
Co	59	2	He	0.097	0.097	11.57	1840	0.01	2000	
Ni	60	2	He	0.541	0.541	2.52	3394	0.02	2000	
Cu	63	2	He	0.677	0.677	5.96	9370	0.01	2000	
Zn	66	2	He	5.096	5.096	4.72	14969	0.03	2000	
Al	27	2	He	8.735	8.735	12.52	16293	0.05	2000	
B	11	1	No Gas	52.830	52.830	3.01	174691	0.03	2000	
Al	27	1	No Gas	8.154	8.154	10.45	540984	0.00	2000	
Si	28	1	No Gas	9936.836	9936.836	3.68	118093265	0.01	2000	>LDR
Ag	107	1	No Gas	-0.006	-0.006	-28.98	463	0.00	2000	
Cd	111	1	No Gas	0.006	0.006	20.56	63	0.01	2000	
Sr	88	1	No Gas	418.494	418.494	1.60	21969786	0.00	2000	
Mo	95	1	No Gas	0.050	0.050	7.21	803	0.01	2000	
Sn	118	1	No Gas	0.107	0.107	5.95	5528	0.00	2000	
Sb	121	1	No Gas	0.098	0.098	6.86	2924	0.00	2000	
Ba	137	1	No Gas	175.424	175.424	2.76	1553180	0.01	2000	
Tl	205	1	No Gas	0.002	0.002	85.98	923	0.00	2000	
Tl	203	1	No Gas	0.003	0.003	100.95	430	0.00	2000	
Pb	208	1	No Gas	0.024	0.024	3.40	4327	0.00	2000	
U	238	1	No Gas	0.012	0.012	4.24	1530	0.00	2000	
Ca	43	2	He	16713.372	16713.372	1.14	60034	27.84	200000	
Sb	121	2	He	0.077	0.077	17.16	1257	0.01	2000	
Ti	47	2	He	1.709	1.709	4.47	627	0.27	2000	
Cu	63	1	No Gas	5.394	5.394	0.93	126365	0.00	2000	
Zn	66	1	No Gas	5.330	5.330	7.06	40802	0.01	2000	
Se	82	1	No Gas	2.844	2.844	3.41	1727	0.16	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1546838	1.74	1626896	95.08	70	120	
Ge	72	2	He	1360122	2.04	1361459	99.90	70	120	
Ge	72	1	No Gas	4126424	0.70	4246540	97.17	70	120	
In	115	1	No Gas	4701211	0.91	4838645	97.16	70	120	
Bi	209	1	No Gas	4288634	1.51	4469823	95.95	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	237_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:34:28-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	107.060	2.001	2211352	2.43	100	107.1	90	110	
Be	9	1	No Gas	102.561	0.933	535252	1.01	100	102.6	90	110	
V	51	2	He	99.924	1.004	1008087	1.81	100	99.9	90	110	
Cr	52	2	He	103.215	0.205	1153548	1.13	100	103.2	90	110	
Fe	56	2	He	10152.462	1.068	100440425	1.35	10000	101.5	90	110	
Se	78	2	He	102.386	1.259	16317	0.38	100	102.4	90	110	
As	75	2	He	101.061	1.212	178700	1.07	100	101.1	90	110	
Ca	44	2	He	9175.754	1.755	620290	1.84	10000	91.8	90	110	
Na	23	2	He	10320.350	2.592	16748025	2.61	10000	103.2	90	110	
Mg	24	2	He	10408.036	1.365	10626054	1.30	10000	104.1	90	110	
K	39	2	He	10242.189	2.930	12513750	2.43	10000	102.4	90	110	
Mn	55	2	He	90.156	0.807	830032	0.49	100	90.2	90	110	
Co	59	2	He	104.688	1.827	1690868	1.50	100	104.7	90	110	
Ni	60	2	He	101.594	0.620	401921	0.79	100	101.6	90	110	
Cu	63	2	He	98.632	2.734	1088347	3.72	100	98.6	90	110	
Zn	66	2	He	102.933	1.289	217199	1.20	100	102.9	90	110	
Al	27	2	He	104.624	1.401	76369	2.08	100	104.6	90	110	
B	11	1	No Gas	521.362	1.579	1558362	1.01	500	104.3	90	110	
Al	27	1	No Gas	105.142	1.987	2812674	0.97	100	105.1	90	110	
Si	28	1	No Gas	495.479	3.108	7347217	1.84	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.419	1.853	2921761	2.42	100	103.4	90	110	
Cd	111	1	No Gas	101.732	0.638	566435	0.70	100	101.7	90	110	
Sr	88	1	No Gas	103.138	0.638	5526027	1.01	100	103.1	90	110	
Mo	95	1	No Gas	92.569	0.435	1042942	0.88	100	92.6	90	110	
Sn	118	1	No Gas	102.692	1.610	1792525	1.04	100	102.7	90	110	
Sb	121	1	No Gas	101.180	2.364	2574788	0.55	100	101.2	90	110	
Ba	137	1	No Gas	95.402	0.255	861990	0.51	100	95.4	90	110	
Tl	205	1	No Gas	105.313	1.580	5399152	1.01	100	105.3	90	110	
Tl	203	1	No Gas	104.961	2.168	2304474	0.91	100	105.0	90	110	
Pb	208	1	No Gas	103.481	1.410	8030755	0.70	100	103.5	90	110	
U	238	1	No Gas	101.795	2.479	8206306	1.04	100	101.8	90	110	
Ca	43	2	He	10485.368	1.715	37351	0.81	10000	104.9	90	110	
Sb	121	2	He	99.497	2.462	1283367	3.18	100	99.5	90	110	
Ti	47	2	He	99.519	1.523	35012	1.70	100	99.5	90	110	
Cu	63	1	No Gas	103.622	1.584	2272393	2.74	100	103.6	90	110	
Se	82	1	No Gas	101.529	1.820	35200	0.85	100	101.5	90	110	
Zr	90	1	No Gas	101.905	1.096	3536778	0.92	100	101.9	90	110	
Zr	90	2	He	102.773	1.513	1643899	0.53	100	102.8	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	1500133	0.68	1626896	92.21	70	120	
Ge	72	2	He	1346908	1.00	1361459	98.93	70	120	
Ge	72	1	No Gas	4204802	2.56	4246540	99.02	70	120	
In	115	1	No Gas	4795267	0.58	4838645	99.10	70	120	
Bi	209	1	No Gas	4432611	1.98	4469823	99.17	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	238_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:36:48-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.056	119.7	89621	1.0	0.5	
Be	9	1	No Gas	0.013	58.4	150	27.3	0.5	
V	51	2	He	0.110	3.2	6595	1.1	2.5	
Cr	52	2	He	-0.113	-24.8	8243	2.8	2.5	
Fe	56	2	He	0.429	29.4	55869	3.3	100	
Se	78	2	He	-0.109	-182.8	247	11.8	2	
As	75	2	He	-0.022	-34.6	340	5.2	2.5	
Ca	44	2	He	-6.985	-17.8	2054	4.4	100	
Na	23	2	He	-141.817	-1.7	232434	1.4	100	
Mg	24	2	He	-0.126	-133.7	2234	8.8	100	
K	39	2	He	-16.659	-12.5	154154	0.4	100	
Mn	55	2	He	-0.152	-13.2	2030	10.3	2.5	
Co	59	2	He	-0.004	-50.8	193	16.6	2.5	
Ni	60	2	He	-0.086	-20.3	920	8.2	2.5	
Cu	63	2	He	-0.073	-18.0	1057	14.2	2	
Zn	66	2	He	-0.575	-12.7	3184	3.6	2.5	
Al	27	2	He	0.397	166.3	11235	3.2	5	
B	11	1	No Gas	6.824	10.5	34297	5.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.284	48.4	368336	0.3	5	
Si	28	1	No Gas	-10.993	-19.7	1289616	1.5	10	
Ag	107	1	No Gas	-0.009	-36.1	400	23.8	2.5	
Cd	111	1	No Gas	0.004	93.8	57	36.7	1	
Sr	88	1	No Gas	0.002	97.8	3747	3.5	2.5	
Mo	95	1	No Gas	0.044	28.6	777	17.9	2.5	
Sn	118	1	No Gas	0.007	307.2	4024	9.4	5	
Sb	121	1	No Gas	0.052	11.3	1803	8.8	2.5	
Ba	137	1	No Gas	-0.008	-88.8	563	11.5	2.5	
Tl	205	1	No Gas	0.107	49.0	6585	42.0	1	
Tl	203	1	No Gas	0.110	55.4	2887	47.4	1	
Pb	208	1	No Gas	-0.012	-29.7	1780	15.3	2.5	
U	238	1	No Gas	0.008	9.4	1293	4.0	2.5	
Ca	43	2	He	-13.592	-72.4	97	36.3	100	
Sb	121	2	He	0.034	13.7	713	9.5	2.5	
Ti	47	2	He	-0.001	-2065.1	20	50.0	2.5	
Cu	63	1	No Gas	-0.289	-4.1	4744	4.6	2.5	
Se	82	1	No Gas	0.114	330.3	837	16.2	2	
Zr	90	1	No Gas	0.116	23.2	5961	15.3	2.5	
Zr	90	2	He	0.070	12.9	2677	6.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1555709	0.96	1626896	95.62	70	120	
Ge	72	2	He	1389813	1.28	1361459	102.08	70	120	
Ge	72	1	No Gas	4212286	0.98	4246540	99.19	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4959651	1.03	4838645	102.50	70	120	
Bi	209	1	No Gas	4610439	0.93	4469823	103.15	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	247_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T19:58:00-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	102.854	4.234	2148825	2.16	100	102.9	90	110	
Be	9	1	No Gas	99.539	3.683	524684	2.00	100	99.5	90	110	
V	51	2	He	96.697	4.995	1018411	4.02	100	96.7	90	110	
Cr	52	2	He	97.858	0.723	1142509	1.72	100	97.9	90	110	
Fe	56	2	He	9808.432	2.457	101321198	2.49	10000	98.1	90	110	
Se	78	2	He	96.155	2.293	16018	2.43	100	96.2	90	110	
As	75	2	He	96.383	1.655	177960	0.91	100	96.4	90	110	
Ca	44	2	He	8694.606	2.332	613855	2.47	10000	86.9	90	110	CCV Main CR1-2 Failed
Na	23	2	He	9775.836	1.863	16588905	1.62	10000	97.8	90	110	
Mg	24	2	He	9771.738	2.110	10416854	1.93	10000	97.7	90	110	
K	39	2	He	9677.545	1.738	12356743	1.77	10000	96.8	90	110	
Mn	55	2	He	86.338	2.164	830139	2.17	100	86.3	90	110	CCV Main CR1-2 Failed
Co	59	2	He	102.427	2.959	1727351	2.59	100	102.4	90	110	
Ni	60	2	He	97.647	1.223	403426	1.61	100	97.6	90	110	
Cu	63	2	He	93.031	1.475	1071759	1.49	100	93.0	90	110	
Zn	66	2	He	97.632	1.549	215347	1.87	100	97.6	90	110	
Al	27	2	He	96.575	4.009	74449	3.05	100	96.6	90	110	
B	11	1	No Gas	524.495	3.970	1583397	2.35	500	104.9	90	110	
Al	27	1	No Gas	102.053	1.340	2811820	1.64	100	102.1	90	110	
Si	28	1	No Gas	481.352	1.788	7364760	1.77	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.711	4.323	3020966	2.37	100	102.7	90	110	
Cd	111	1	No Gas	100.278	2.758	581439	0.83	100	100.3	90	110	
Sr	88	1	No Gas	101.119	3.131	5641659	1.11	100	101.1	90	110	
Mo	95	1	No Gas	94.718	6.012	1110894	4.36	100	94.7	90	110	
Sn	118	1	No Gas	102.424	2.756	1861989	1.27	100	102.4	90	110	
Sb	121	1	No Gas	102.146	1.081	2667038	1.00	100	102.1	90	110	
Ba	137	1	No Gas	94.624	1.865	890430	0.15	100	94.6	90	110	
Tl	205	1	No Gas	102.140	0.988	5566110	0.62	100	102.1	90	110	
Tl	203	1	No Gas	103.155	1.314	2407713	1.68	100	103.2	90	110	
Pb	208	1	No Gas	102.702	1.528	8472202	1.59	100	102.7	90	110	
U	238	1	No Gas	101.701	0.253	8716107	0.79	100	101.7	90	110	
Ca	43	2	He	9430.626	4.471	35085	3.48	10000	94.3	90	110	
Sb	121	2	He	95.532	3.493	1286586	3.88	100	95.5	90	110	
Ti	47	2	He	96.333	3.463	35386	3.30	100	96.3	90	110	
Cu	63	1	No Gas	103.484	2.756	2328053	3.55	100	103.5	90	110	
Se	82	1	No Gas	101.419	0.052	36076	0.94	100	101.4	90	110	
Zr	90	1	No Gas	101.347	2.664	3663042	0.64	100	101.3	90	110	
Zr	90	2	He	97.528	3.056	1628923	2.60	100	97.5	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1515793	1.91	1626896	93.17	70	120	
Ge	72	2	He	1406375	1.00	1361459	103.30	70	120	
Ge	72	1	No Gas	4312695	0.92	4246540	101.56	70	120	
In	115	1	No Gas	4995405	1.99	4838645	103.24	70	120	
Bi	209	1	No Gas	4710995	0.95	4469823	105.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	248_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq Date Time	2024-04-17T20:00:21-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	199CALB.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	0.323	18.2	94006	0.7	0.5	
Be	9	1	No Gas	0.016	53.0	162	28.1	0.5	
V	51	2	He	0.357	4.6	9221	1.3	2.5	
Cr	52	2	He	-0.116	-26.4	8263	3.5	2.5	
Fe	56	2	He	0.597	23.6	57980	2.2	100	
Se	78	2	He	-0.031	-328.0	262	5.3	2	
As	75	2	He	-0.011	-79.8	362	4.1	2.5	
Ca	44	2	He	-8.242	-16.6	1980	5.1	100	
Na	23	2	He	-60.468	-6.0	367567	0.7	100	
Mg	24	2	He	1.276	24.5	3734	8.3	100	
K	39	2	He	-17.045	-17.6	154761	1.6	100	
Mn	55	2	He	-0.212	-7.8	1477	11.0	2.5	
Co	59	2	He	-0.005	-49.7	173	23.3	2.5	
Ni	60	2	He	-0.068	-8.0	1000	2.6	2.5	
Cu	63	2	He	-0.071	-14.5	1083	11.7	2	
Zn	66	2	He	-1.435	-3.3	1360	8.3	2.5	
Al	27	2	He	0.329	178.5	11271	3.1	5	
B	11	1	No Gas	5.508	10.7	29917	6.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.049	587.4	367781	0.9	5	
Si	28	1	No Gas	-16.105	-4.5	1245200	0.5	10	
Ag	107	1	No Gas	-0.006	-33.1	487	12.6	2.5	
Cd	111	1	No Gas	0.007	27.6	77	15.1	1	
Sr	88	1	No Gas	0.014	21.8	4414	4.5	2.5	
Mo	95	1	No Gas	0.056	16.0	927	12.1	2.5	
Sn	118	1	No Gas	0.005	156.0	3977	2.7	5	
Sb	121	1	No Gas	0.051	33.6	1803	23.6	2.5	
Ba	137	1	No Gas	-0.008	-114.2	570	14.4	2.5	
Tl	205	1	No Gas	0.098	47.2	6192	40.5	1	
Tl	203	1	No Gas	0.095	55.6	2607	47.2	1	
Pb	208	1	No Gas	-0.011	-12.3	1867	6.2	2.5	
U	238	1	No Gas	0.008	26.4	1310	13.0	2.5	
Ca	43	2	He	-11.072	-77.2	107	28.6	100	
Sb	121	2	He	0.036	10.2	733	6.7	2.5	
Ti	47	2	He	0.035	165.5	33	62.4	2.5	
Cu	63	1	No Gas	-0.331	-3.7	3891	6.6	2.5	
Se	82	1	No Gas	0.209	198.4	880	16.1	2	
Zr	90	1	No Gas	0.120	20.0	6125	14.8	2.5	
Zr	90	2	He	0.071	14.3	2707	5.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1537403	0.65	1626896	94.50	70	120	
Ge	72	2	He	1399642	0.95	1361459	102.80	70	120	
Ge	72	1	No Gas	4269934	1.05	4246540	100.55	70	120	

Continuing Calibration Blank (CCB) Report

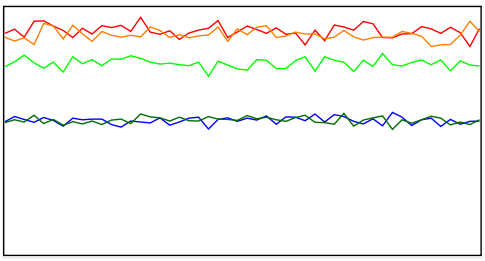
In	115	1	No Gas	4953005	0.76	4838645	102.36	70	120	
Bi	209	1	No Gas	4689917	0.22	4469823	104.92	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\041724A.b
Acq. Date-Time	4/17/2024 9:00:55 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	5000	4533	45326.58		
24	20000	15489	154888.12		
59	50000	27131	271311.84		
115	50000	44499	444992.80		
208	50000	27170	271695.29		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.696	5.000	
24	2.548	5.000	
59	2.683	5.000	
115	2.564	5.000	
208	2.523	5.000	

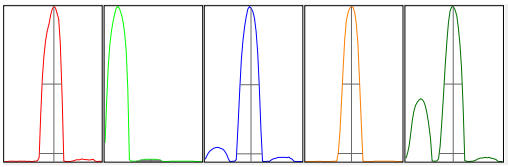
Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	1.100		
59	0.900		
115	0.900		
208	3.600		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.266 %
Doubly Charged	70 / 140 1.016 %

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	4578.81	9.05	8.90 - 9.10	
24	15790.23	23.95	23.90 - 24.10	
59	28210.62	58.95	58.90 - 59.10	
115	44389.25	114.95	114.90 - 115.10	
208	27479.62	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.740		
24	0.63	0.789		
59	0.59	0.778		
115	0.53	0.747		
208	0.55	0.773		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.72 L/min	Dilution Gas	0.35 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	14.4 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

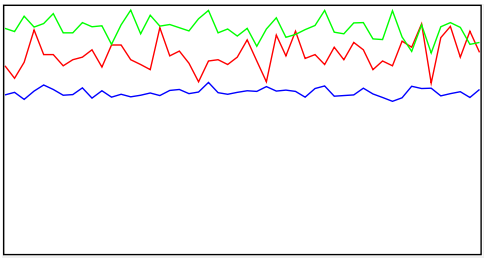
EM

Discriminator	4.0 mV	Analog HV	2361 V	Pulse HV	1483 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	161	1611.29		
24	1000	911	9106.96		
59	20000	13031	130306.00		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

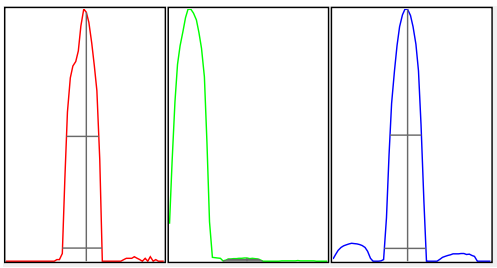
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	7.285	5.000	Fail
24	4.524	5.000	
59	2.510	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.500		
24	0.000		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.726 %
Doubly Charged	70 / 140 0.878 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	164.52	9.05	8.90 - 9.10	
24	922.34	24.00	23.90 - 24.10	
59	13102.20	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.740		
24	0.61	0.739		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.59	0.776		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.72 L/min	Dilution Gas	0.35 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-77 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	199 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

EM

Discriminator	4.0 mV	Analog HV	2361 V	Pulse HV	1483 V

HS24040786 E2400363 Perch Level IV SUB
Final Report

ALS WO# HS24040786

April 24, 2024 Service Request No:E2400363

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040786

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 11, 2024
For your reference, these analyses have been assigned our service request number **E2400363.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

Client:	ALS Environmental -US	Service Request No.:	E2400363
Project:	HS24040786	Date Received:	04/11/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 04/11/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400188: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400363
Project: HS24040786

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400363-001	LH18/24-SP650_041024_AIX	4/10/2024	1300

Service Request Summary

Folder #: **E2400363**
Client Name: ALS Environmental - US
Project Name: HS24040786
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/11/24
Internal Due Date: 4/23/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo, EQUIS APTIM LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400363-001	LH18/24-SP650_041024_AIX	Water	04/10/24 1300	**IV***

Service Request Summary

Folder #: **E2400363**
Client Name: ALS Environmental - US
Project Name: HS24040786
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/11/24
Internal Due Date: 4/23/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo, EQUIS APTIM LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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

E2400363 5
ALS Environmental - US
HS24040786

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25322**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24040786
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040786-02**	**LH18/24-SP650_041024_AIX**	**Water**	**10 Apr 2024 13:00**
	Provide Level II and Level IV reports in separate pdfInclude EDDS - EQUIS EFWEDD_LHAAP and BASICWQC_CASNo			25 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 4/11/24 10:46

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

E2400363 5
ALS Environmental - US
HS24040786

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

Sample Receipt Checklist

Work Order ID: HS24040786 **Date/Time received:** 11 Apr 2024 09:30

Client name: Bhate Environmental Associates, Inc. **Received by:** Aytu Tuncer

Completed/By: 11 Apr 2024 10:46 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

Matrices: w **Carrier name:** FedEx

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

Temperature(s)/Thermometer(s): 3.0uc/3.1c ir31

Cooler Information: 1 Cooler(s), 43655

Date/Time sample(s) sent to storage: 04/11/2024 1047

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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Houston, TX 77099
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F: +1 281 530 5887
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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400354-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400358-001	LH18/24-SP140_041024	.01	6850/ClO4 DOD			Water	10mL	
3	E2400363-001	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2400378-001	LTMSW16-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
5	E2400378-002	LTMSW15-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
6	E2400378-003	FD01-SW-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
7	E2400378-004	LTMSW14-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
8	E2400378-005	LTMSW13-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
9	E2400378-006	LTMSW12-040924	.03	6850/ClO4 DOD			Surface Water	10mL	
10	E2400381-001	2404091004A PL-1-486	.01	6850/ClO4 DOD			Water	10mL	
11	E2400391-001	LH18/24-SP650_041724_BIX	.01	6850/ClO4 DOD			Water	10mL	
12	E2400391-002	LH18/24-SP650_041724_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	EQ2400188-01	MB		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400188-02	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400188-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400188-04	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400188-05	LTMSW12-040924 MS	.03	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400188-06	LTMSW12-040924 DMS	.03	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400188-02 10.00µL EQ2400188-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400391-001 100.00µL E2400391-002 100.00µL EQ2400188-01 100.00µL EQ2400188-02 100.00µL EQ2400188-03 100.00µL EQ2400188-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400188-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer-Lok Syringes (228117)

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

Preparation Steps

Step: Preparation
Started: 4/19/24 09:00
Finished: 4/19/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP650_041024_AIX	**Units:**	µg/L
Lab Code:	E2400363-001	**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	ND	U	0.100	0.0500	0.0250	1	4/19/24	4/19/24 14:48	437153	838801	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400188-01	**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	4/19/24	4/19/24 11:44	437153	838403	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	437153

	Lab Control Sample EQ2400188-02			Duplicate Lab Control Sample EQ2400188-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.111	0.100	111	0.118	0.100	118	84 - 119	6	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:**	E2400363
Project:	HS24040786	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-02	**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	**0.111**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:50	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-03	**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	4/19/24	4/19/24 11:56	437153	838403	

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

835280

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240328-001	IB	Perchlorate6850c.lcm	1x		3/28/2024 18:50
2	20240328-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	3/28/2024 18:56
3	20240328-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	3/28/2024 19:01
4	20240328-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	3/28/2024 19:07
5	20240328-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	3/28/2024 19:12
6	20240328-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	3/28/2024 19:18
7	20240328-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	3/28/2024 19:23
8	20240328-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	3/28/2024 19:29
9	20240328-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	3/28/2024 19:34
10	20240328-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	3/28/2024 19:40
11	20240328-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	3/28/2024 19:46
12	20240328-012	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	3/28/2024 19:51
13	20240328-013	IB	Perchlorate6850c.lcm	1x		3/28/2024 19:57
14	20240328-014	LODV	Perchlorate6850c.lcm	1x		3/28/2024 20:08
15	20240328-015	EQ2400151-04ICS	Perchlorate6850c.lcm	1x		3/28/2024 20:13
16	20240328-016	CCV	Perchlorate6850c.lcm	1x		3/28/2024 20:19
17	20240328-017	IB	Perchlorate6850c.lcm	1x		3/28/2024 20:24
18	20240328-018	EQ2400151-01MB	Perchlorate6850c.lcm	1x		3/28/2024 20:30
19	20240328-019	EQ2400151-02LCS	Perchlorate6850c.lcm	1x		3/28/2024 20:35
20	20240328-020	EQ2400151-03DLCS	Perchlorate6850c.lcm	1x		3/28/2024 20:41
21	20240328-022	E2400265-001	Perchlorate6850c.lcm	1x		3/28/2024 20:52
22	20240328-023	E2400268-001	Perchlorate6850c.lcm	1x		3/28/2024 20:58
23	20240328-024	E2400268-002	Perchlorate6850c.lcm	1x		3/28/2024 21:03
24	20240328-025	E2400271-001	Perchlorate6850c.lcm	1x		3/28/2024 21:09
25	20240328-026	E2400271-002	Perchlorate6850c.lcm	1x		3/28/2024 21:14
26	20240328-027	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:20
27	20240328-028	CCV	Perchlorate6850c.lcm	1x		3/28/2024 21:25
28	20240328-029	IB	Perchlorate6850c.lcm	1x		3/28/2024 21:31
29	20240328-030	E2400296-002	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:36
30	20240328-031	E2400296-003	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:42
31	20240328-032	CCV	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:47
32	20240328-033	IB	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:53

Initial Calibration - Detailed Report

Calibration ID: EC2400005 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400005-01	Perchlorate ICAL 1	20240328-002	03/28/2024 18:56
02	EC2400005-02	Perchlorate ICAL 2	20240328-003	03/28/2024 19:01
03	EC2400005-03	Perchlorate ICAL 3	20240328-004	03/28/2024 19:07
04	EC2400005-04	Perchlorate ICAL 4	20240328-005	03/28/2024 19:12
05	EC2400005-05	Perchlorate ICAL 5	20240328-006	03/28/2024 19:18
06	EC2400005-06	Perchlorate ICAL 6	20240328-007	03/28/2024 19:23
07	EC2400005-07	Perchlorate ICAL 7	20240328-008	03/28/2024 19:29
08	EC2400005-08	Perchlorate ICAL 8	20240328-009	03/28/2024 19:34
09	EC2400005-09	Perchlorate ICAL 9	20240328-010	03/28/2024 19:40
10	EC2400005-10	Perchlorate ICAL 10	20240328-011	03/28/2024 19:46

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.135** **Average RF = 0.1549**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1349	02	0.5000	0.1452	03	0.7000	0.1473	04	1.0000	0.1539
05	2.0000	0.1596	06	5.0000	0.1596	07	10.0000	0.1635	08	20.0000	0.1613
09	30.0000	0.1629	10	50.0000	0.161						

Analyte

Perchlorate RSE = 6.14

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0871	-12.9	02	0.5000	0.469	-6.3	03	0.7000	0.666	-4.9
04	1.0000	0.994	-0.6	05	2.0000	2.06	3.0	06	5.0000	5.15	3.0
07	10.0000	10.6	5.6	08	20.0000	20.8	4.1	09	30.0000	31.5	5.1
10	50.0000	52.0	3.9								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400005	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240328-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400005-11	T	Average RF	10	10.397	ng/mL	4.0	<= 15

Insight Report

Printed at 3/29/2024 12:40:08 PM

IB

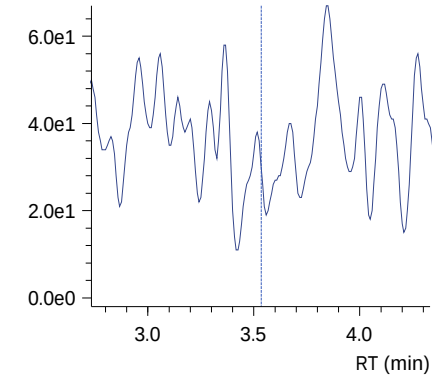
Sample ID: IB
Date Acquired: 3/28/2024 7:57:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	174347	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.516	174347	174347	1.0000	ng/mL	----	----	

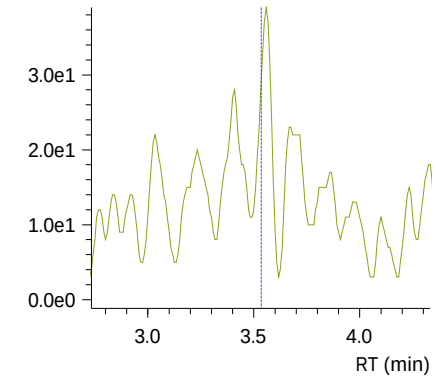
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 6.70e1



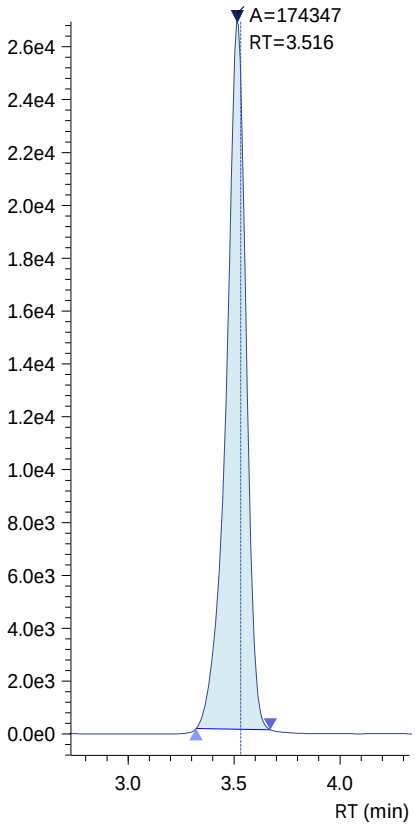
R1 101.00>85.00 (-) 3.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.69e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240328\20240328.damlp

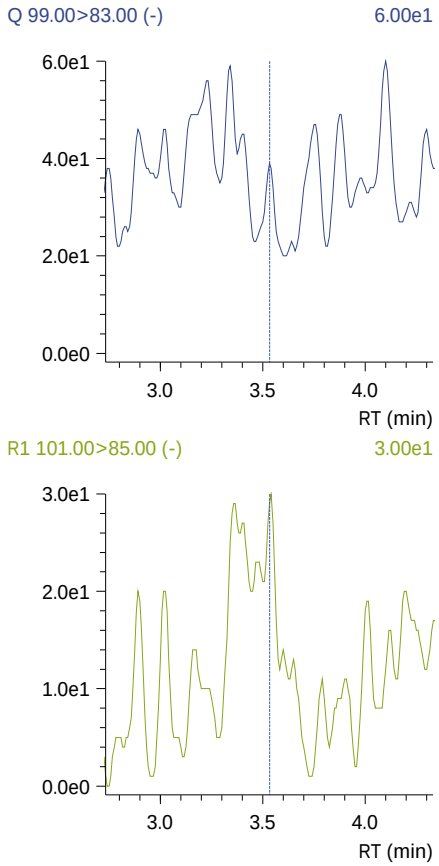
IB

Sample ID: IB
Date Acquired: 3/28/2024 6:50:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	242889	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.523	242889	242889	1.0000	ng/mL	----	----	

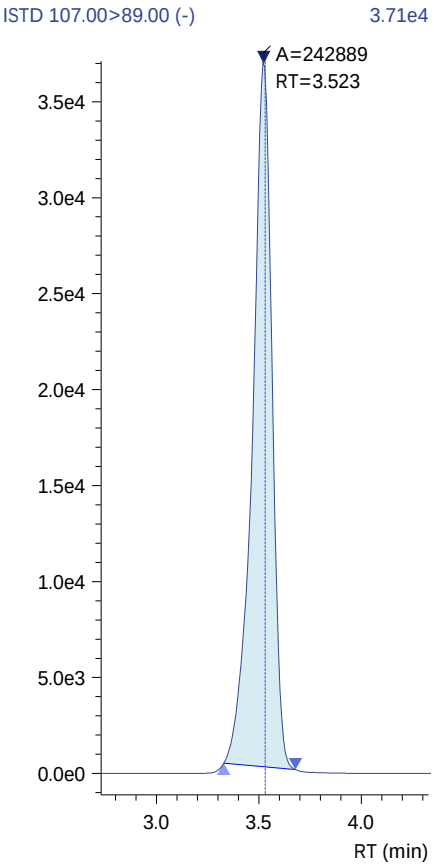
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

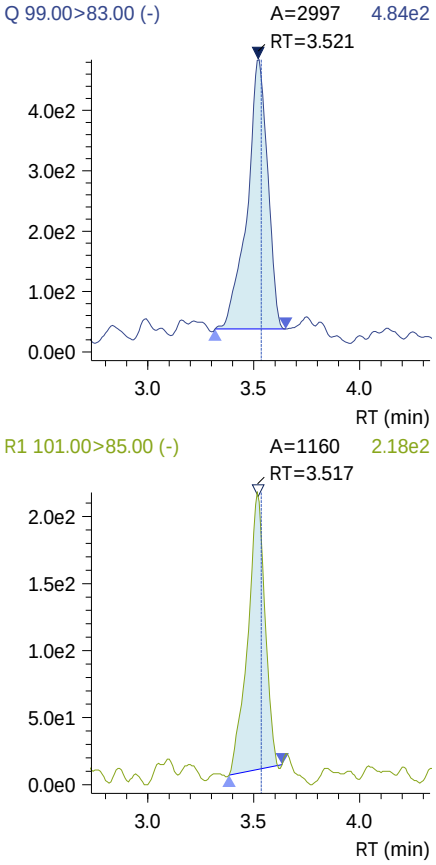
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 3/28/2024 6:56:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	2997	222150	0.0871	ng/mL	101.00 >85.00	38.69	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.521	222150	222150	1.0000	ng/mL	----	----	

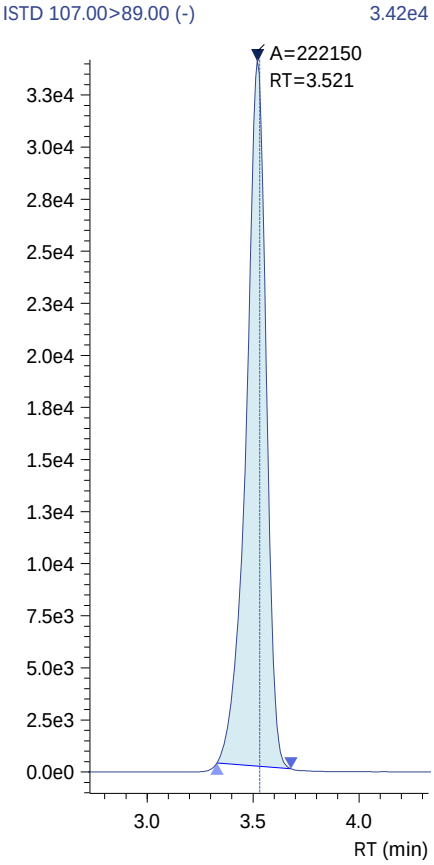
Perchlorate

Conc 0.0871
R#1 38.69 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

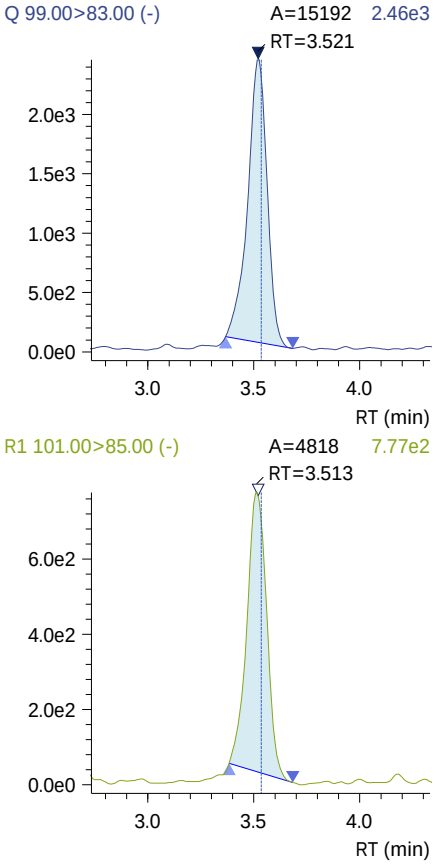
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 3/28/2024 7:01:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	15192	209260	0.4686	ng/mL	101.00 >85.00	31.71	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.519	209260	209260	1.0000	ng/mL	----	----	

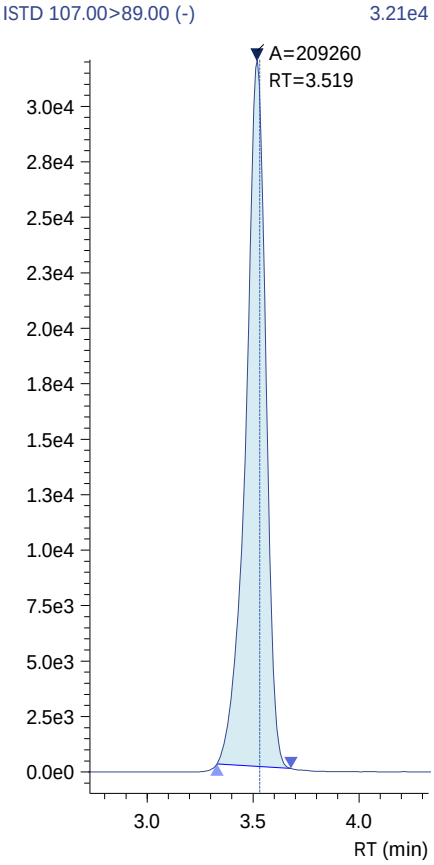
Perchlorate

Conc 0.4686
R#1 31.71 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

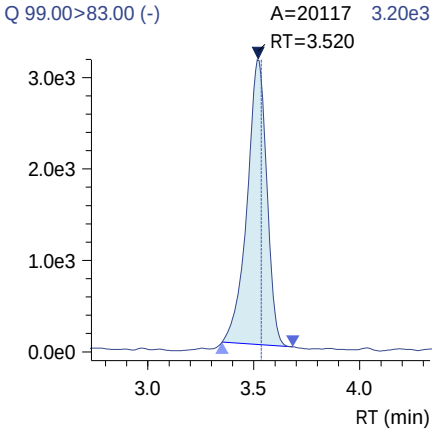
Perchlorate ICAL 3

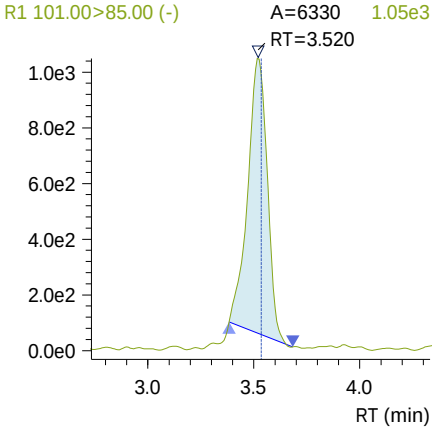
Sample ID: Perchlorate ICAL 3
Date Acquired: 3/28/2024 7:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	20117	195056	0.6657	ng/mL	101.00 >85.00	31.46	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	195056	195056	1.0000	ng/mL	----	----	

Perchlorate

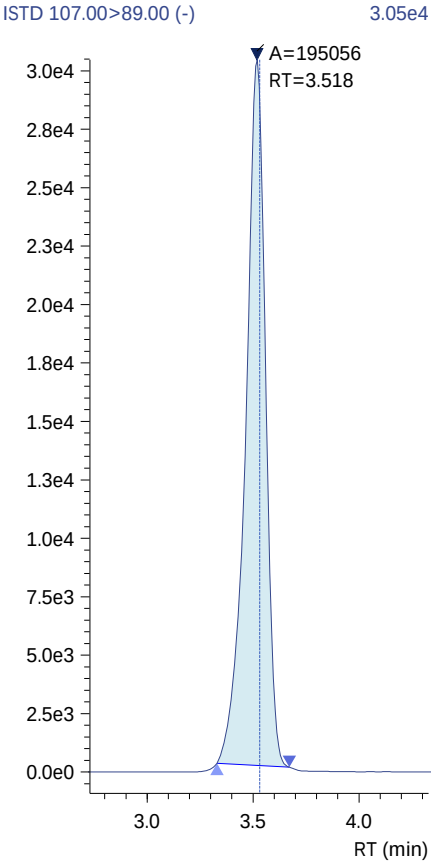
Conc 0.6657
R#1 31.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

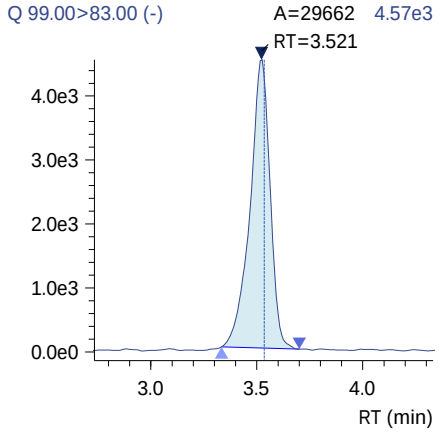
Perchlorate ICAL 4

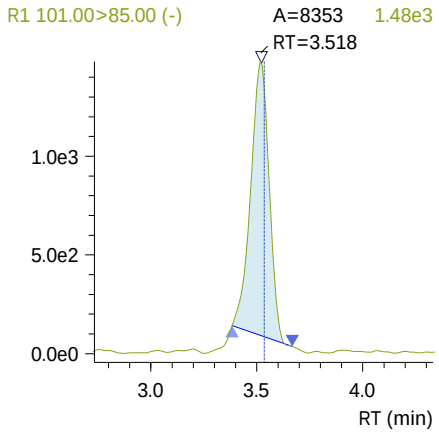
Sample ID: Perchlorate ICAL 4
Date Acquired: 3/28/2024 7:12:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	29662	192682	0.9936	ng/mL	101.00 >85.00	28.16	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	192682	192682	1.0000	ng/mL	----	----	

Perchlorate

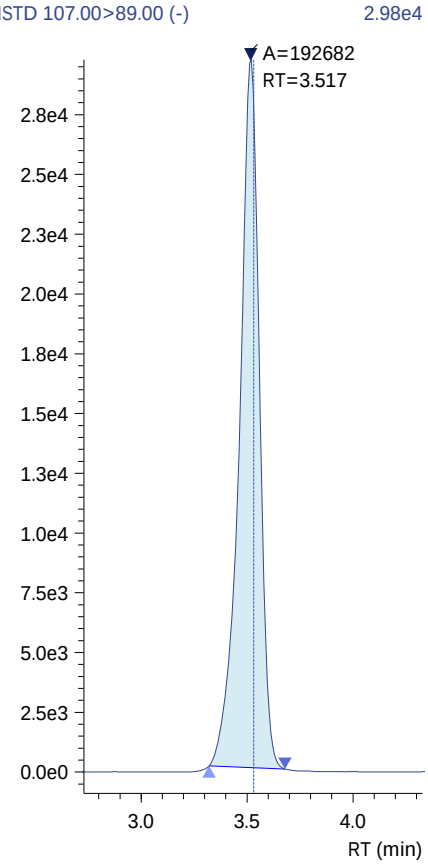
Conc 0.9936
R#1 28.16 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

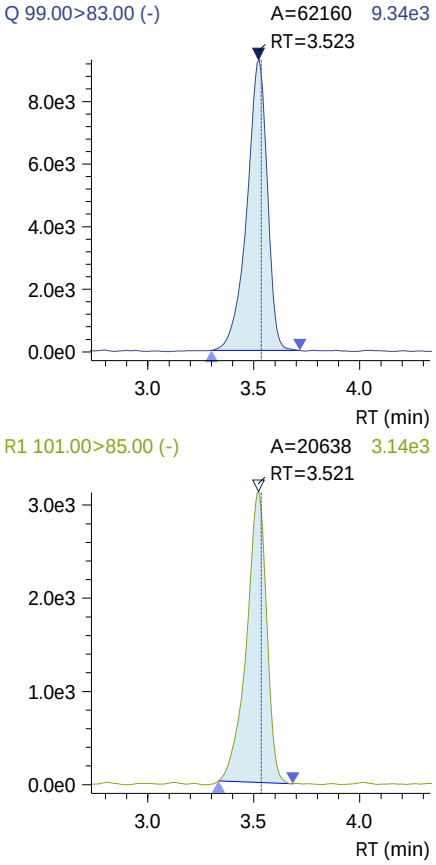
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 3/28/2024 7:18:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	62160	194691	2.0607	ng/mL	101.00 >85.00	33.20	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	194691	194691	1.0000	ng/mL	----	----	

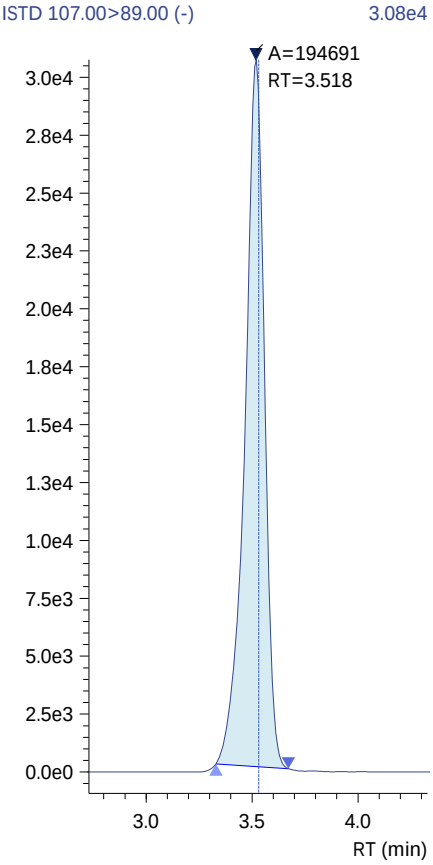
Perchlorate

Conc 2.0607
R#1 33.20 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 6

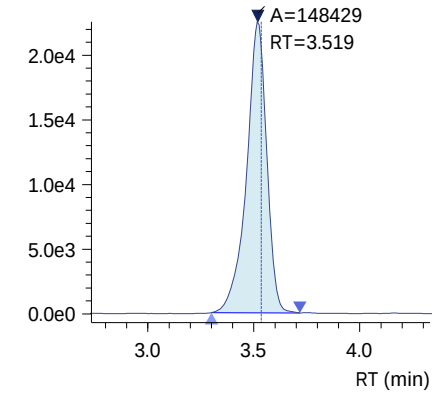
Sample ID: Perchlorate ICAL 6
Date Acquired: 3/28/2024 7:23:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	148429	185979	5.1511	ng/mL	101.00 >85.00	33.89	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	185979	185979	1.0000	ng/mL	----	----	

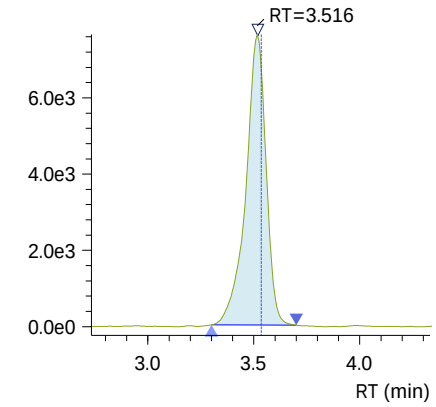
Perchlorate

Conc 5.1511
R#1 33.89 (34.10)

Q 99.00>83.00 (-) 2.26e4



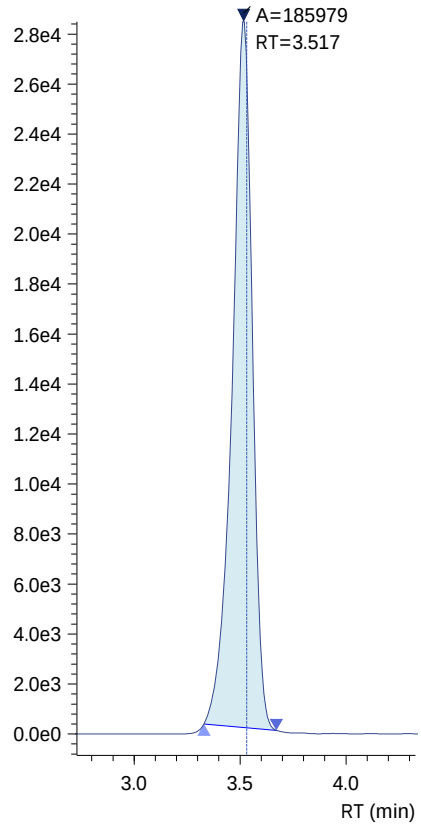
R1 101.00>85.00 (-) A=50306 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.85e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

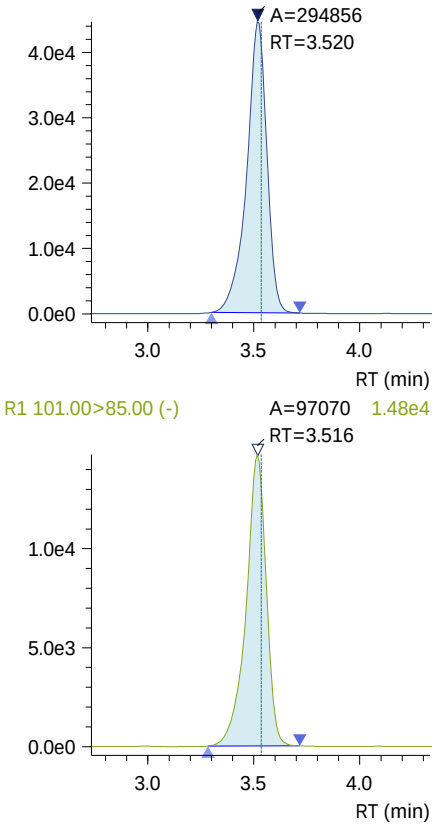
Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 3/28/2024 7:29:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	294856	180287	10.5 558	ng/mL	101.00 >85.00	32.92	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	180287	180287	1.0000	ng/mL	----	----	

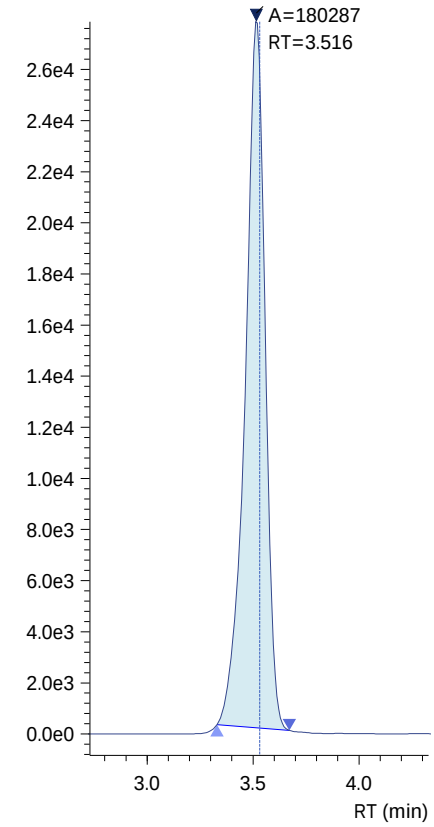
Perchlorate

Conc 10.5558
R#1 32.92 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 8

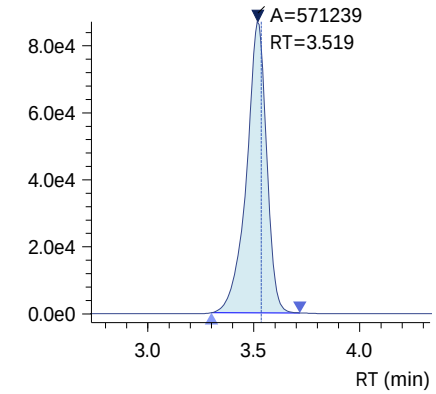
Sample ID: Perchlorate ICAL 8
Date Acquired: 3/28/2024 7:34:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	571239	177068	20.8	ng/mL	101.00	33.33	22.32
					220		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	177068	177068	1.0000	ng/mL	----	----	

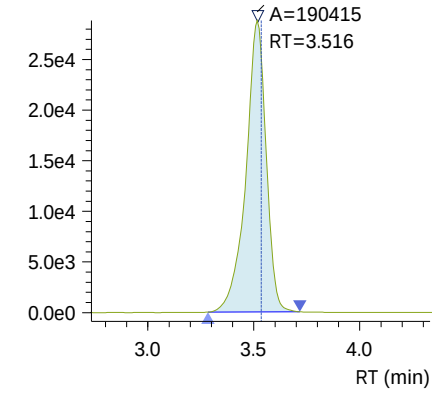
Perchlorate

Conc 20.8220
R#1 33.33 (34.10)

Q 99.00>83.00 (-) 8.72e4



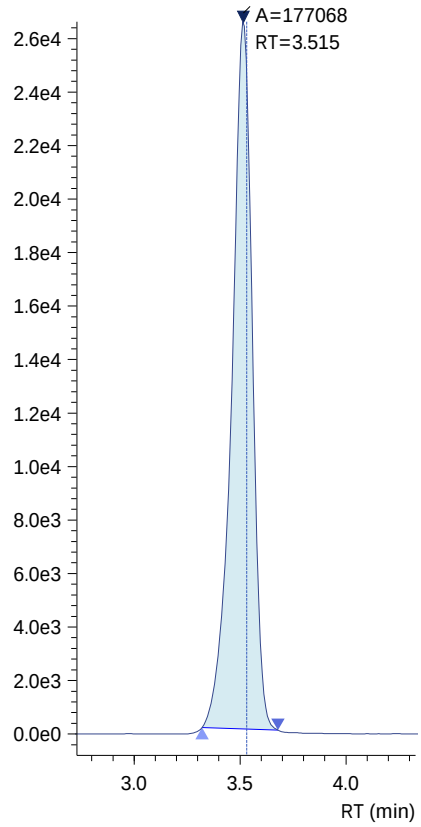
R1 101.00>85.00 (-) 2.89e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 9

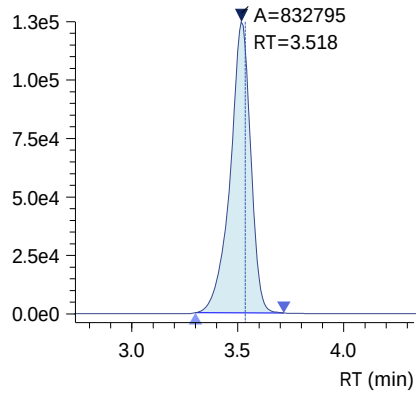
Sample ID: Perchlorate ICAL 9
Date Acquired: 3/28/2024 7:40:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.518	832795	170448	31.5	ng/mL	101.00	33.17	22.32
					348		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	170448	170448	1.0000	ng/mL	----	----	

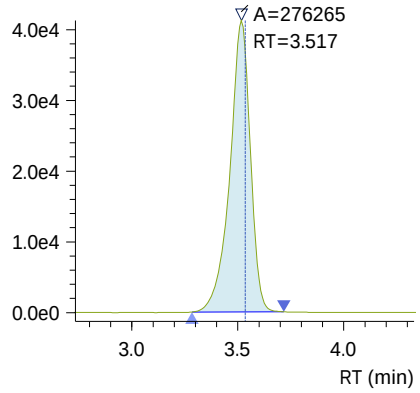
Perchlorate

Conc 31.5348
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 1.25e5



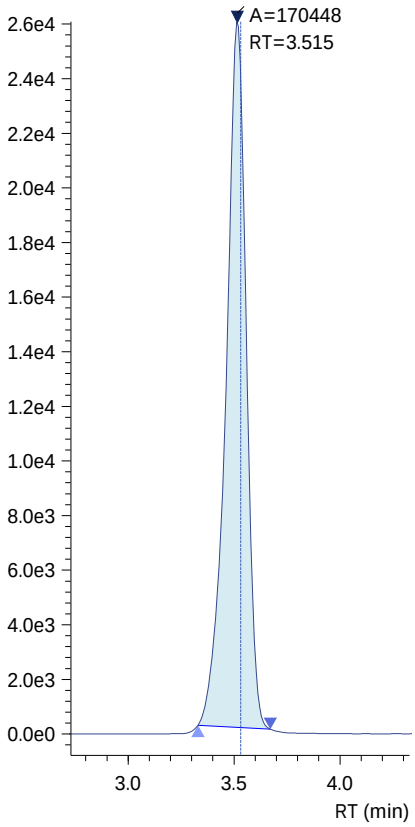
R1 101.00>85.00 (-) 4.13e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.61e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 10

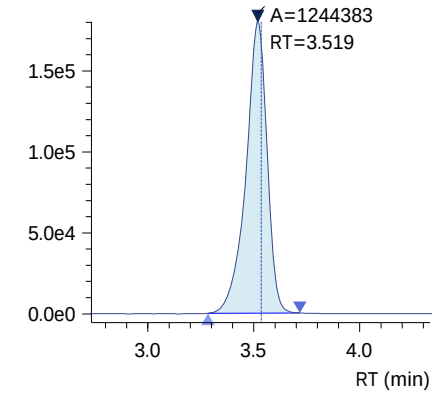
Sample ID: Perchlorate ICAL 10
Date Acquired: 3/28/2024 7:46:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	12443	154566	51.9	ng/mL	101.00	33.24	22.32
			83		618		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	154566	154566	1.0000	ng/mL	----	----	

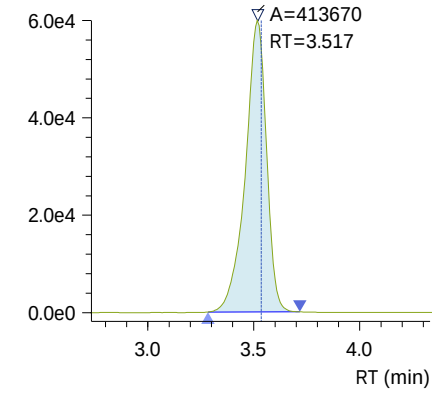
Perchlorate

Conc 51.9618
R#1 33.24 (34.10)

Q 99.00>83.00 (-) 1.80e5



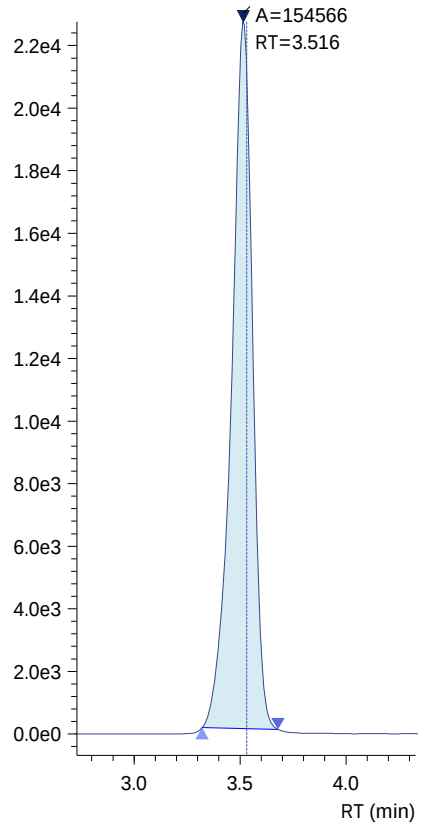
R1 101.00>85.00 (-) 6.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.28e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

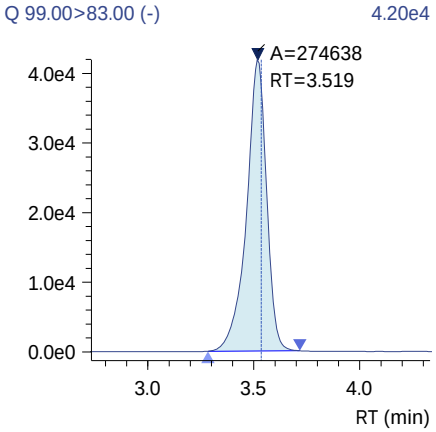
PerchlorateICV

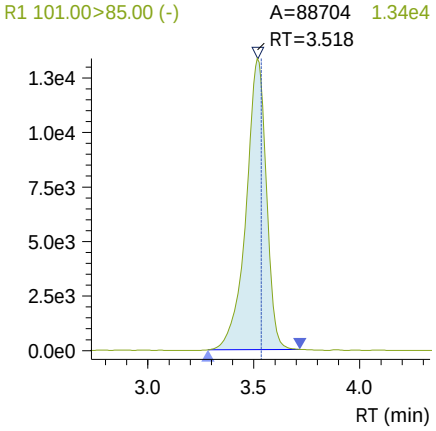
Sample ID: PerchlorateICV
Date Acquired: 3/28/2024 7:51:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	274638	170488	10.3971	ng/mL	101.00 >85.00	32.30	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.515	170488	170488	1.0000	ng/mL	----	----	

Perchlorate

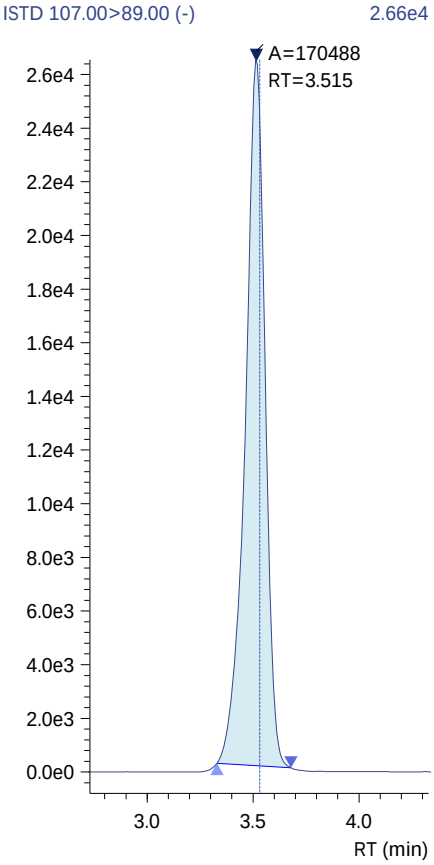
Conc 10.3971
R#1 32.30 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240419-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240419-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240419-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240419-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240419-005	CCV	Perchlorate6850c.lcm	1x		4/19/2024 10:52
6	20240419-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240419-007	E2400391-001	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:18
8	20240419-008	E2400391-002	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:24
9	20240419-009	EQ2400188-01MB	Perchlorate6850c.lcm	1x		4/19/2024 11:44
10	20240419-010	EQ2400188-02LCS	Perchlorate6850c.lcm	1x		4/19/2024 11:50
11	20240419-011	EQ2400188-03DLCS	Perchlorate6850c.lcm	1x		4/19/2024 11:56
12	20240419-012	EQ2400188-04ICS	Perchlorate6850c.lcm	1x		4/19/2024 12:01
13	20240419-013	E2400391-001	Perchlorate6850c.lcm	1x		4/19/2024 12:07
14	20240419-014	E2400391-002	Perchlorate6850c.lcm	1x		4/19/2024 12:12
15	20240419-015	EQ2400188-05MS	Perchlorate6850c.lcm	1x		4/19/2024 12:37
16	20240419-016	EQ2400188-06MSD	Perchlorate6850c.lcm	1x		4/19/2024 12:42
17	20240419-017	CCV	Perchlorate6850c.lcm	1x		4/19/2024 12:48
18	20240419-018	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:53
19	20240419-019	E2400354-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 12:59
20	20240419-020	E2400358-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:04
21	20240419-021	E2400363-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:10
22	20240419-022	E2400378-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:15
23	20240419-023	E2400378-002	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:21
24	20240419-024	E2400378-003	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:26
25	20240419-025	E2400378-004	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:32
26	20240419-026	E2400378-005	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:37
27	20240419-027	E2400378-006	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:43
28	20240419-028	E2400381-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:48
29	20240419-029	CCV	Perchlorate6850c.lcm			4/19/2024 14:31
30	20240419-030	IB	Perchlorate6850c.lcm			4/19/2024 14:37
31	20240419-031	E2400354-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 14:42
32	20240419-032	E2400363-001	Perchlorate6850c.lcm	1x		4/19/2024 14:48
33	20240419-033	E2400378-001	Perchlorate6850c.lcm	1x		4/19/2024 14:54
34	20240419-034	E2400378-002	Perchlorate6850c.lcm	1x		4/19/2024 14:59
35	20240419-035	E2400378-003	Perchlorate6850c.lcm	1x		4/19/2024 15:05
36	20240419-036	E2400378-004	Perchlorate6850c.lcm	1x		4/19/2024 15:10
37	20240419-037	E2400378-005	Perchlorate6850c.lcm	1x		4/19/2024 15:16
38	20240419-038	E2400378-006	Perchlorate6850c.lcm	1x		4/19/2024 15:21
39	20240419-039	E2400381-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 15:27
40	20240419-040	E2400358-001x1000	Perchlorate6850c.lcm	1000x		4/19/2024 15:32

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240419-041	CCV	Perchlorate6850c.lcm			4/19/2024 15:38
42	20240419-042	IB	Perchlorate6850c.lcm			4/19/2024 15:43
43	20240419-043	E2400354-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 15:49
44	20240419-044	E2400354-001X10	Perchlorate6850c.lcm			4/19/2024 15:54
45	20240419-045	E2400381-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 16:00
46	20240419-046	E2400381-001x10	Perchlorate6850c.lcm			4/19/2024 16:05
47	20240419-047	LCSTW1	Perchlorate6850c.lcm			4/19/2024 16:11
48	20240419-048	LCSTW2	Perchlorate6850c.lcm			4/19/2024 16:17
49	20240419-049	LCSTW3	Perchlorate6850c.lcm			4/19/2024 16:22
50	20240419-050	LCSTW4	Perchlorate6850c.lcm			4/19/2024 16:28
51	20240419-051	LCSNV1	Perchlorate6850c.lcm			4/19/2024 16:33
52	20240419-052	LCSNV2	Perchlorate6850c.lcm			4/19/2024 16:39
53	20240419-053	CCV	Perchlorate6850c.lcm			4/19/2024 16:44
54	20240419-054	IB	Perchlorate6850c.lcm			4/19/2024 16:50
55	20240419-055	LCSNV3	Perchlorate6850c.lcm			4/19/2024 16:55
56	20240419-056	LCSNV4	Perchlorate6850c.lcm			4/19/2024 17:01
57	20240419-057	CCV	Perchlorate6850c.lcm			4/19/2024 17:07
58	20240419-058	IB	Perchlorate6850c.lcm			4/19/2024 17:12

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 10:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Lab Code:**	EQ2400189-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-01	122,793	3.55
Method Blank	EQ2400188-01	134,100	3.54
Lab Control Sample	EQ2400188-02	131,541	3.54
Duplicate Lab Control Sample	EQ2400188-03	132,507	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 12:48

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Lab Code:**	EQ2400189-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-02	126,867	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 10:52

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Lab Code:**	EQ2400196-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-01	122,793	3.55

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 12:48

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Lab Code:**	EQ2400196-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-02	126,867	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 14:31

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-029	**Lab Code:**	EQ2400196-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-03	122,485	3.54
LH18/24-SP650_041024_AIX	E2400363-001	131,796	3.54

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 15:38

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-041	**Lab Code:**	EQ2400196-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-04	124,265	3.53

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:**	E2400363
Project:	HS24040786	**Date Analyzed:**	4/19/24 16:44

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20240419\20240419-053	**Lab Code:**	EQ2400196-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838801
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400196-05	117,181	3.54

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: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-005

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838403
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.69	0.1549	0.1501	-3.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-017

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838403
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1566	1.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-005

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.69	0.1549	0.1501	-3.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-017

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1566	1.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-029

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1620	4.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-041

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1627	5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040786

Service Request: E2400363
Date Analyzed: 4/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240419\20240419-053

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838801
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1549	0.1631	5.3	NA	± 15 %	Average RF

Insight Report

Printed at 4/19/2024 2:11:15 PM

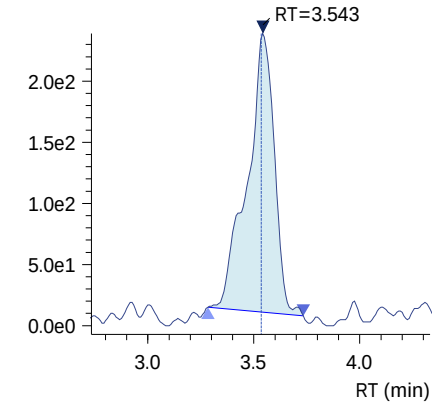
EQ2400188-04ICS

Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

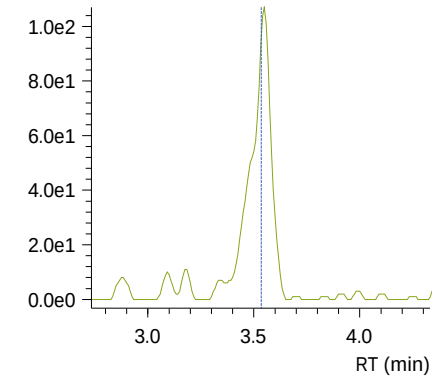
Perchlorate

Conc 0.0974
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2019 2.39e2



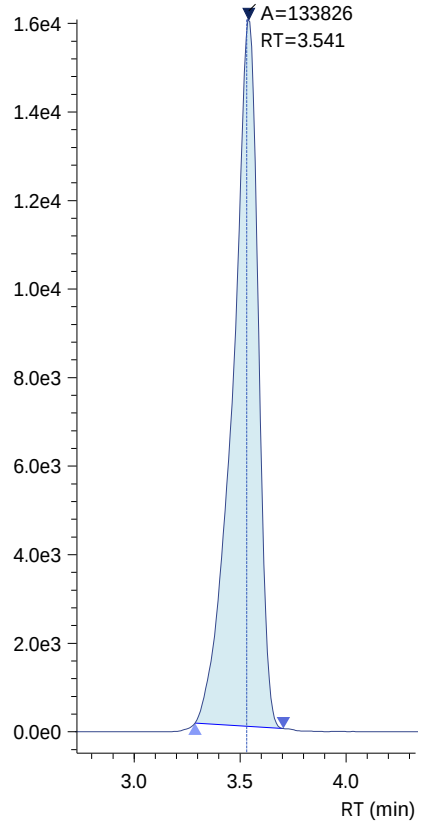
R1 101.00>85.00 (-) 1.07e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

IB

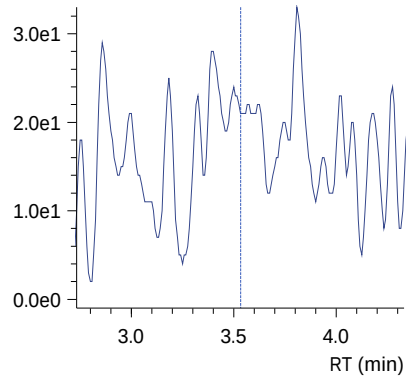
Sample ID: IB
Date Acquired: 4/19/2024 10:30:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	155603	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.554	155603	155603	1.0000	ng/mL	----	----	

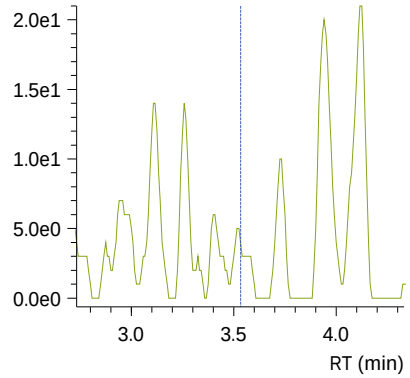
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.30e1



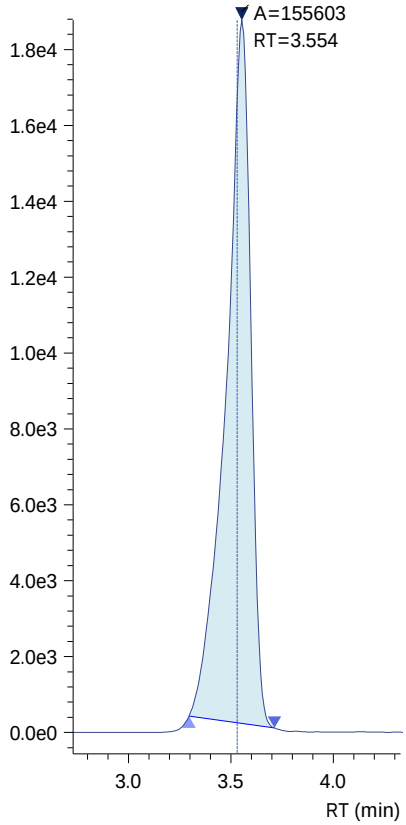
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.88e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

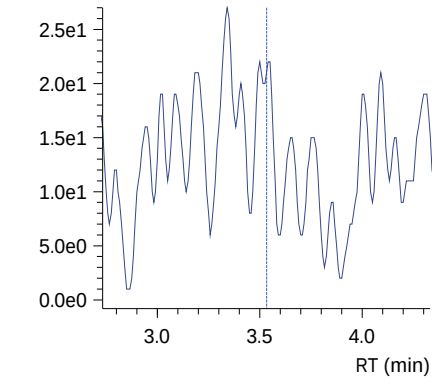
Sample ID: IB
Date Acquired: 4/19/2024 10:35:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	149340	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.558	149340	149340	1.0000	ng/mL	----	----	

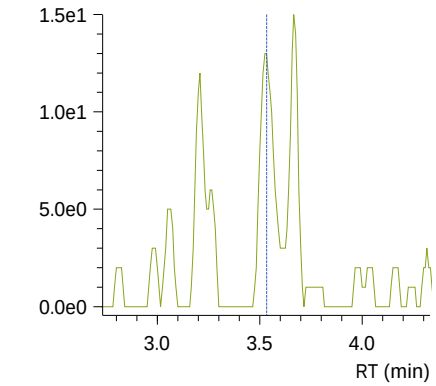
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.70e1



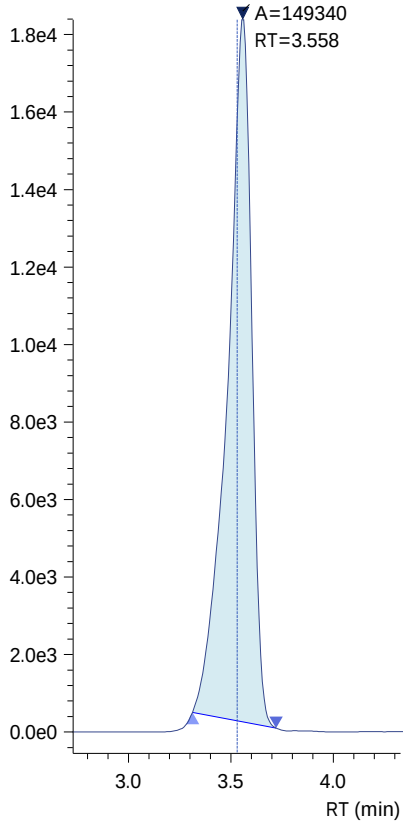
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.84e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

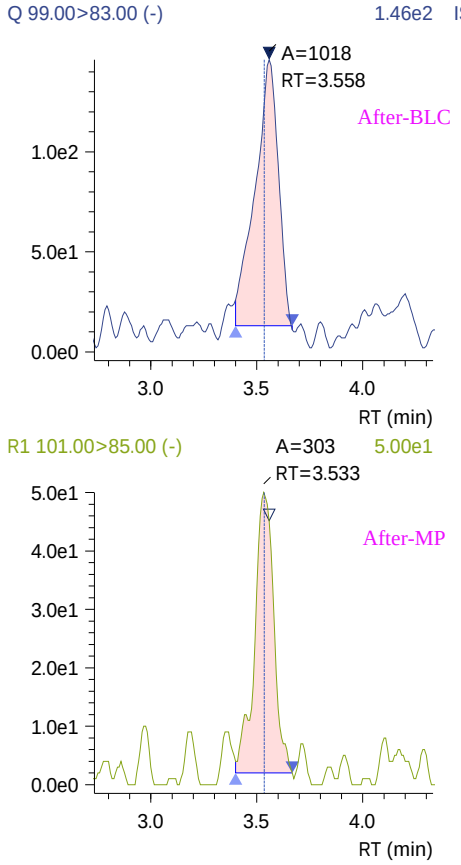
LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.558	1018	133677	0.0492	ng/mL	101.00 >85.00	29.76	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.553	133677	133677	1.0000	ng/mL	----	----	

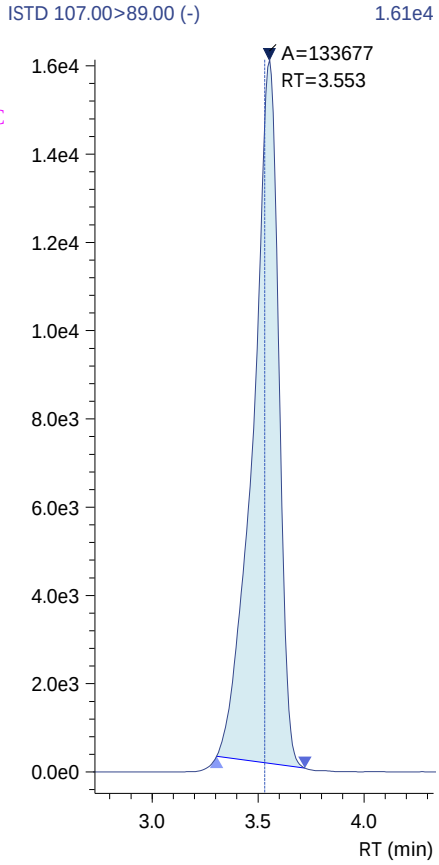
Perchlorate

Conc 0.0492
R#1 29.76 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

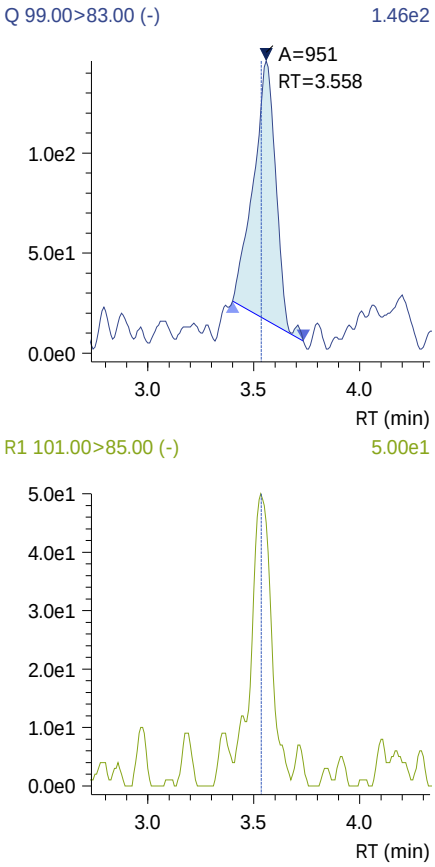
Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

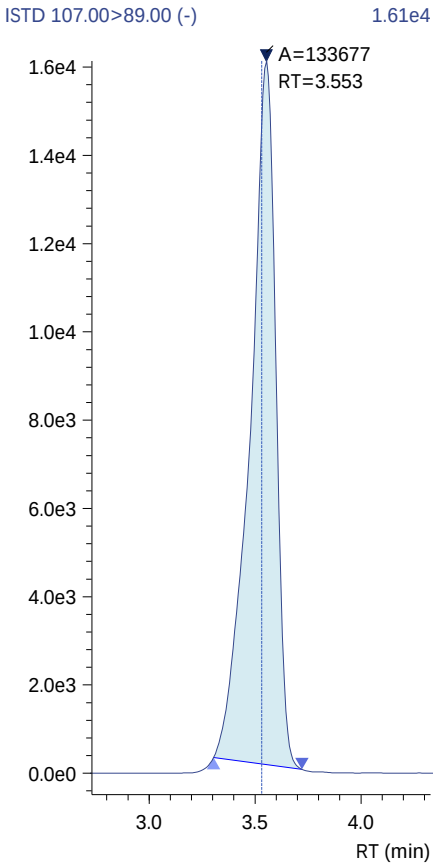
Perchlorate

Conc 0.0459
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

ICS

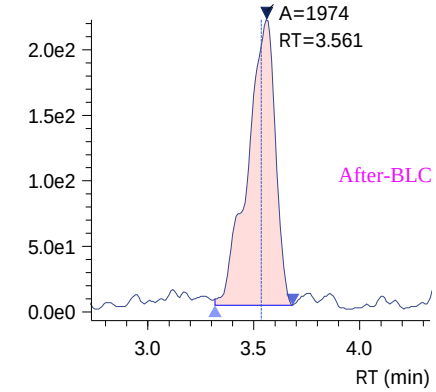
Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.561	1974	139796	0.0911	ng/mL	101.00 >85.00	31.92	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.549	139796	139796	1.0000	ng/mL	----	----	

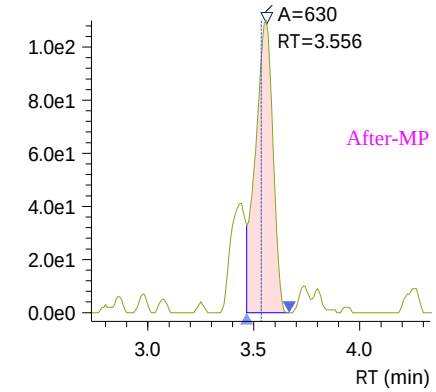
Perchlorate

Conc 0.0911
R#1 31.92 (34.10)

Q 99.00>83.00 (-) 2.23e2



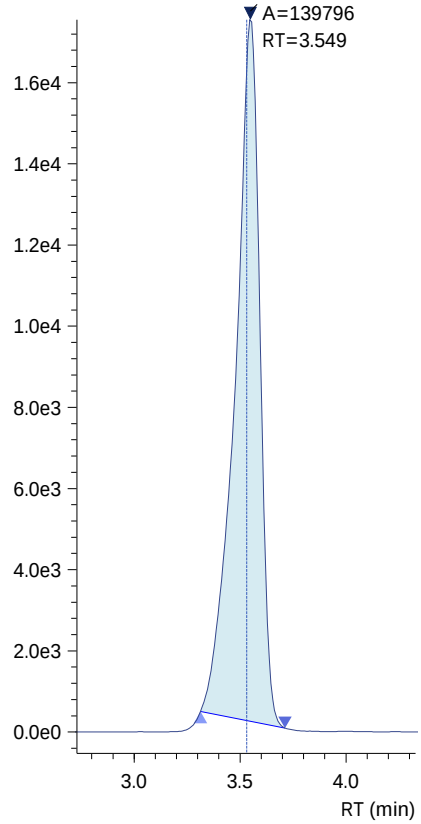
R1 101.00>85.00 (-) 1.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:11:15 PM

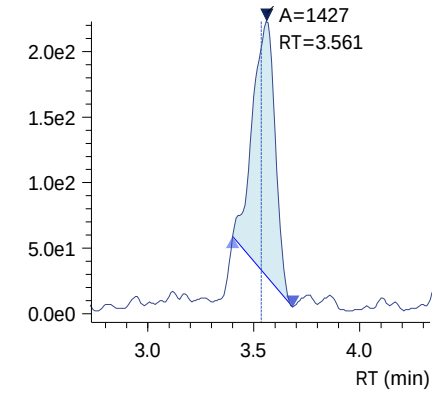
ICS

Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

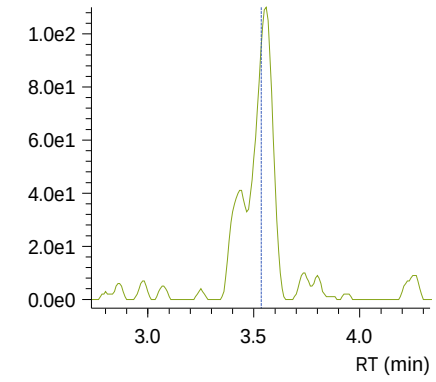
Perchlorate

Conc 0.0659
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.23e2



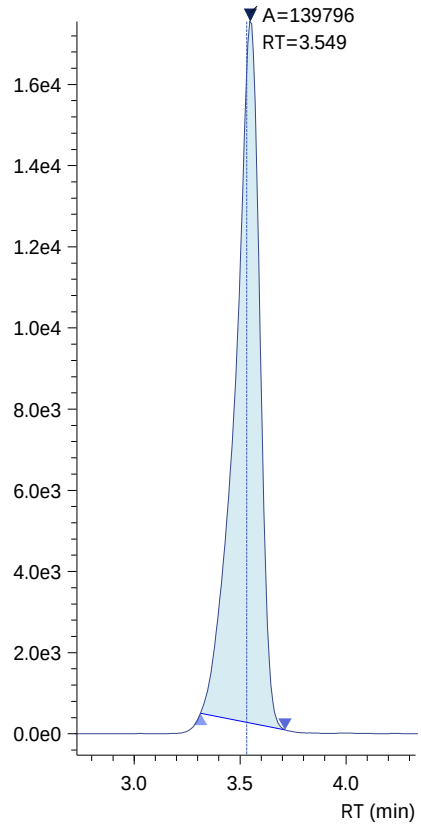
R1 101.00>85.00 (-) 1.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

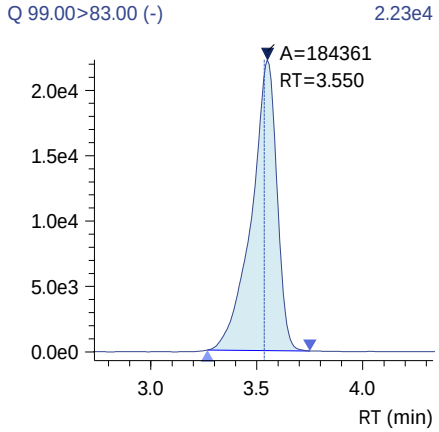
CCV

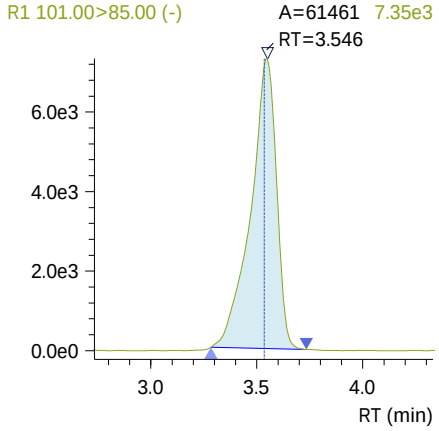
Sample ID: CCV
Date Acquired: 4/19/2024 10:52:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.550	1843 61	122793	9.6904	ng/mL	101.00 >85.00	33.34	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.547	1227 93	122793	1.0000	ng/mL	----	----	

Perchlorate

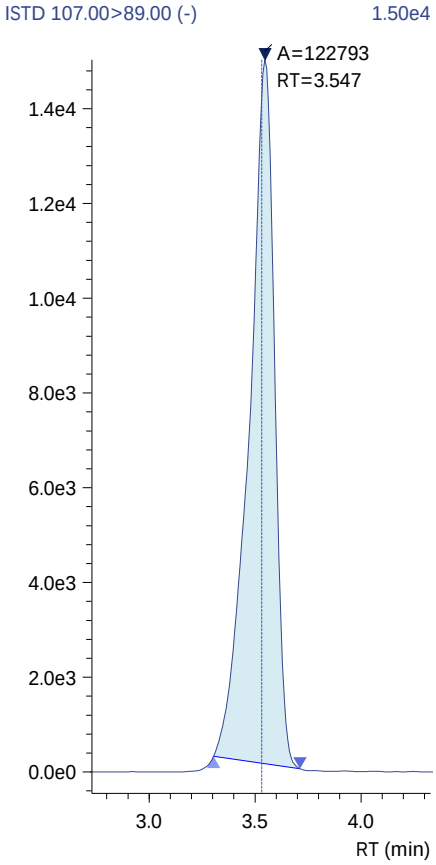
Conc 9.6904
R#1 33.34 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

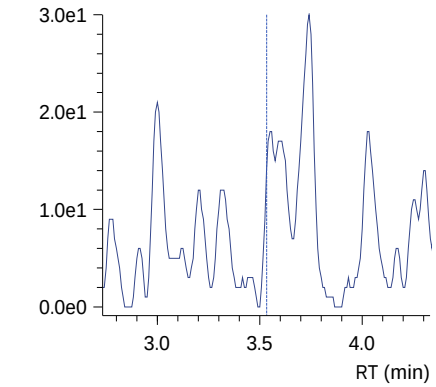
Sample ID: IB
Date Acquired: 4/19/2024 10:57:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	143773	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.546	143773	143773	1.0000	ng/mL	----	----	

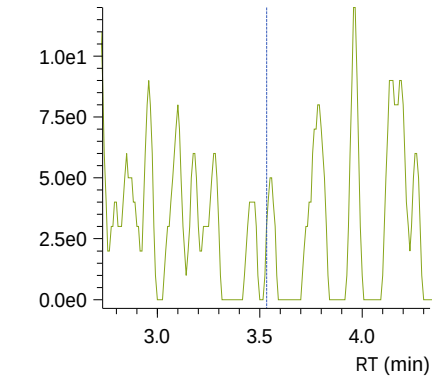
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.00e1



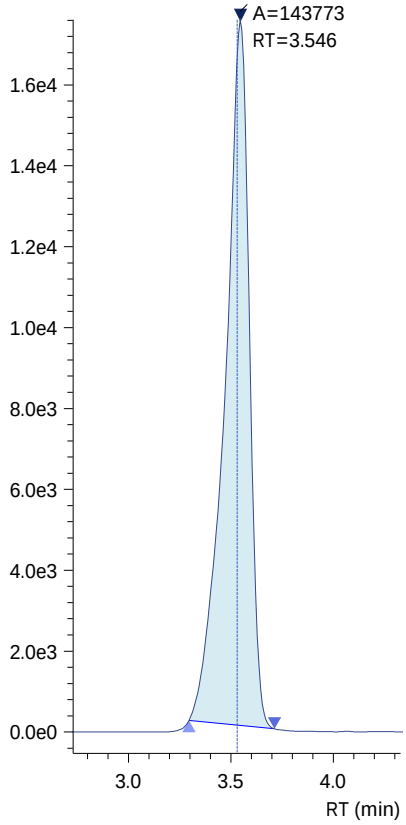
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

EQ2400188-01MB

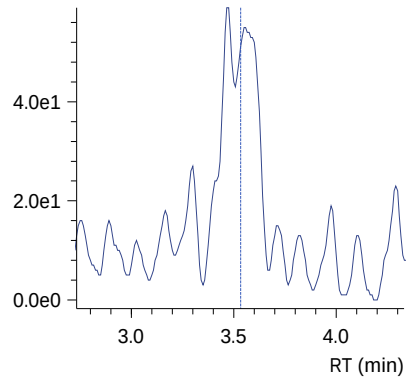
Sample ID: EQ2400188-01
Date Acquired: 4/19/2024 11:44:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-009.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	134100	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	134100	134100	1.0000	ng/mL	----	----	

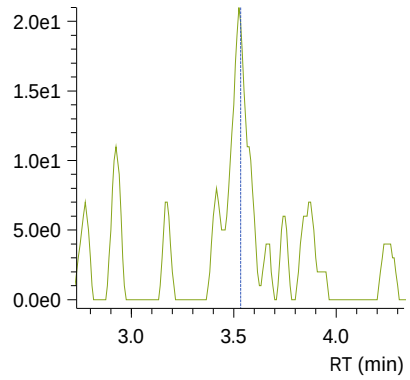
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 5.90e1



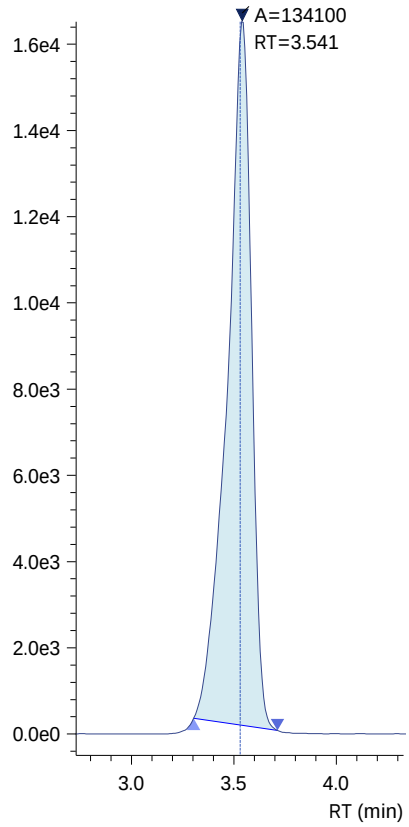
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.65e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

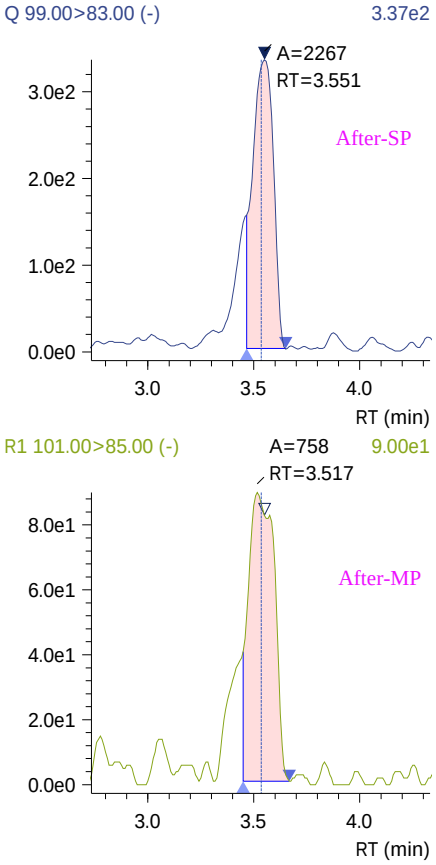
EQ2400188-02LCS

Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.551	2267	131541	0.1112	ng/mL	101.00 >85.00	33.44	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.540	1315 41	131541	1.0000	ng/mL	----	----	

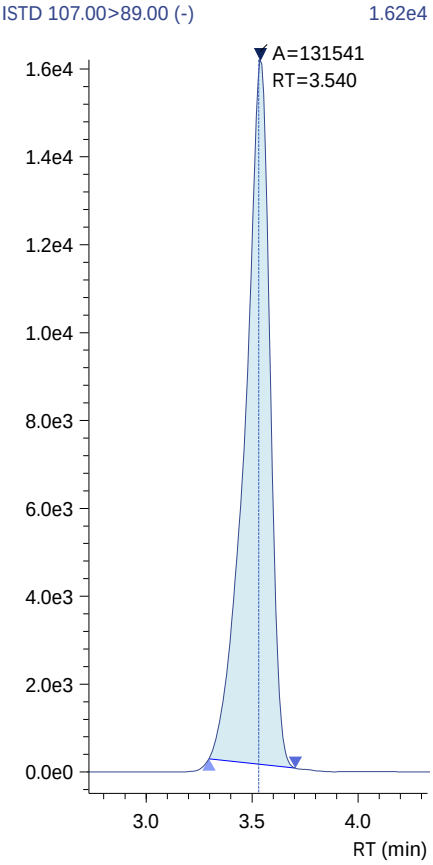
Perchlorate

Conc 0.1112
R#1 33.44 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

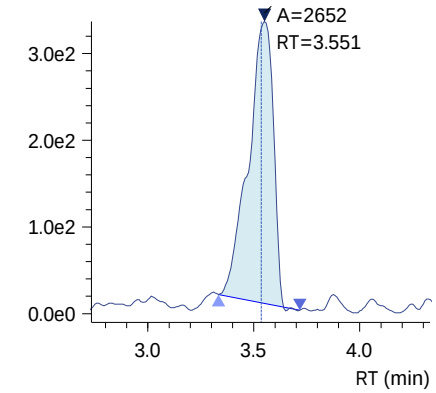
EQ2400188-02LCS

Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

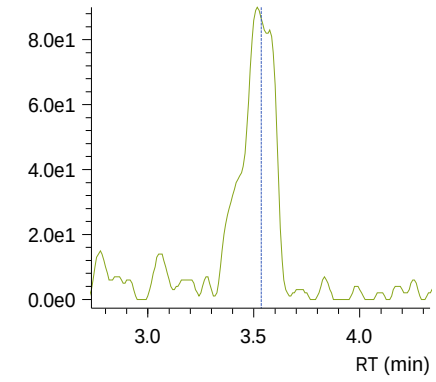
Perchlorate

Conc 0.1301
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.37e2



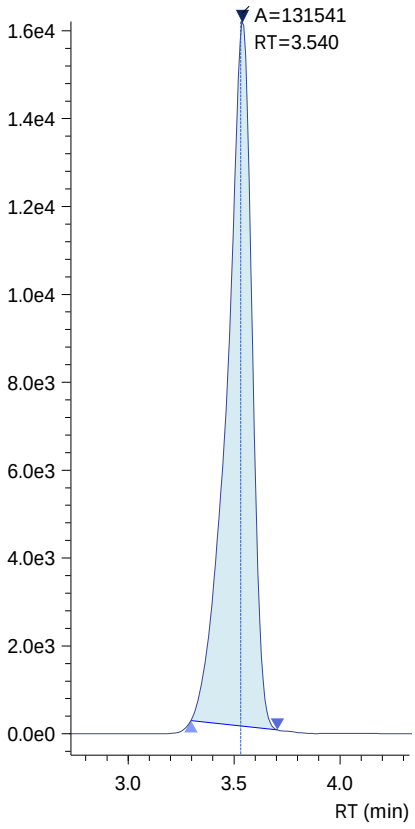
R1 101.00>85.00 (-) 9.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

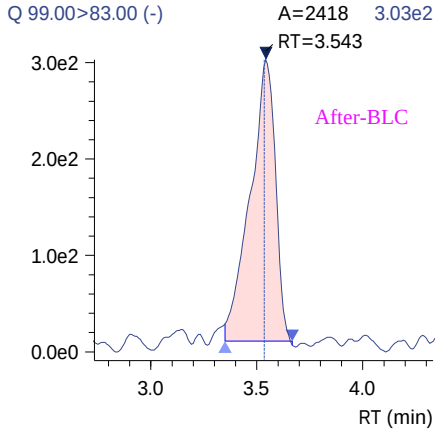
EQ2400188-03DLCS

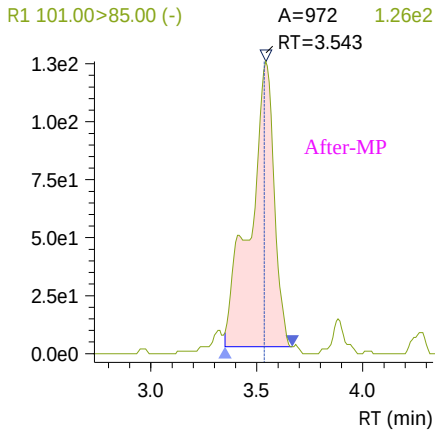
Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.543	2418	132507	0.1178	ng/mL	101.00 >85.00	40.21	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.539	132507	132507	1.0000	ng/mL	----	----	

Perchlorate

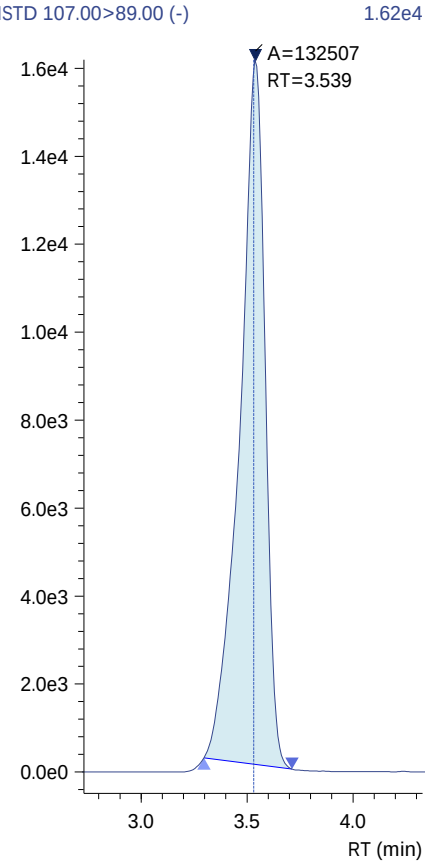
Conc 0.1178
R#1 40.21 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

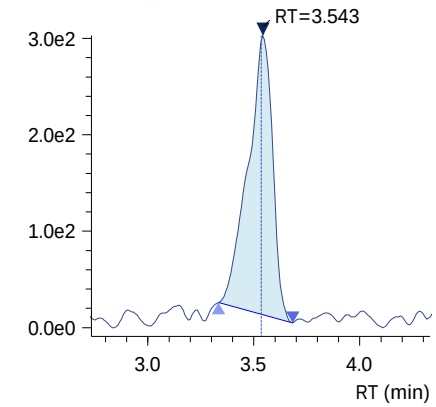
EQ2400188-03DLCS

Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

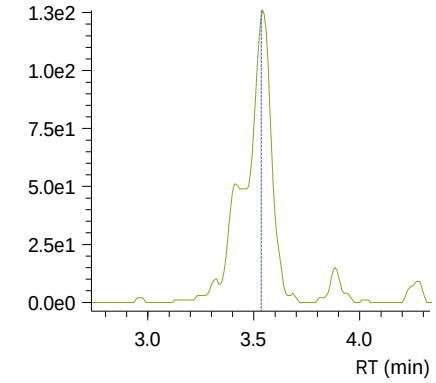
Perchlorate

Conc 0.1137
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2334 3.03e2



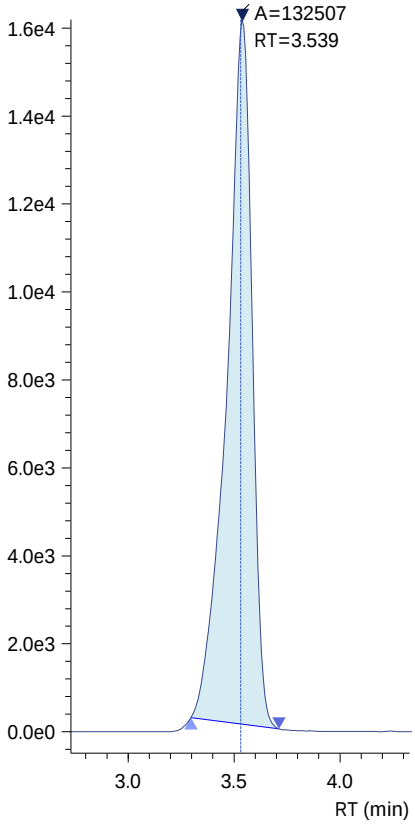
R1 101.00>85.00 (-) 1.26e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

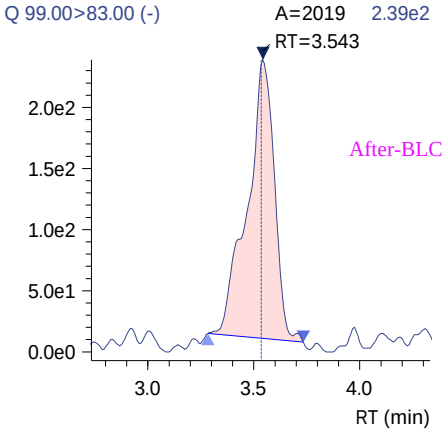
EQ2400188-04ICS

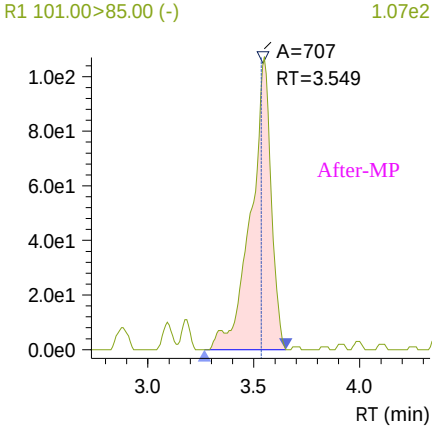
Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.543	2019	133826	0.0974	ng/mL	101.00 >85.00	35.02	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	133826	133826	1.0000	ng/mL	----	----	

Perchlorate

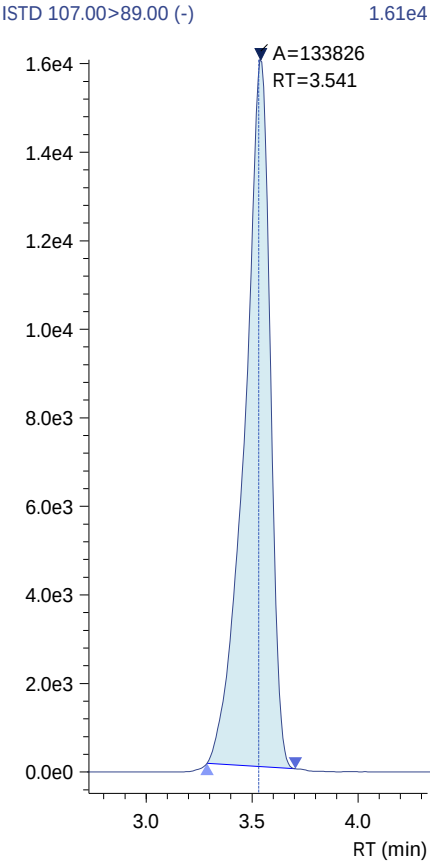
Conc 0.0974
R#1 35.02 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

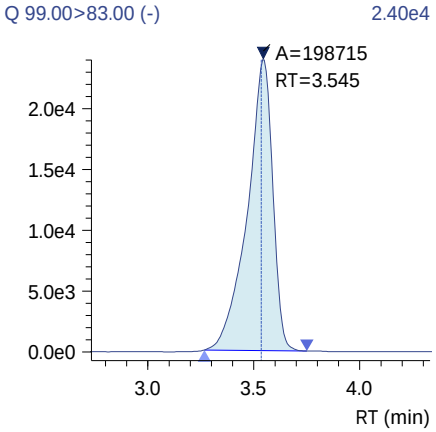
CCV

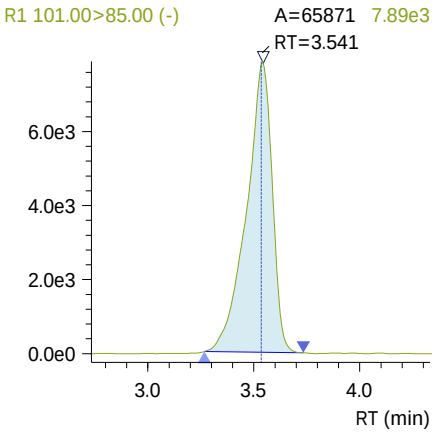
Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.545	198715	126867	10.1095	ng/mL	101.00 >85.00	33.15	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.541	126867	126867	1.0000	ng/mL	----	----	

Perchlorate

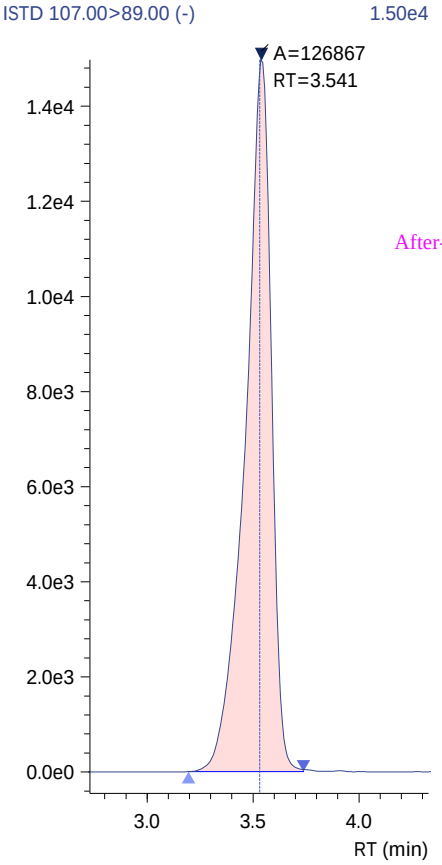
Conc 10.1095
R#1 33.15 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 4/19/2024 2:11:15 PM

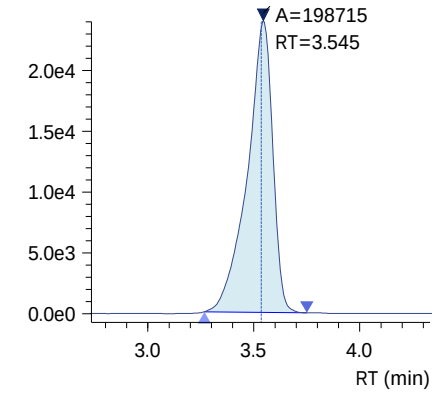
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

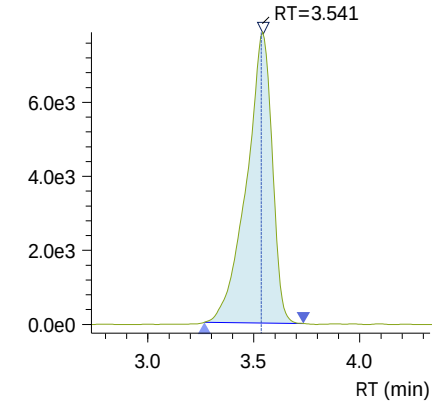
Perchlorate

Conc 10.3881
R#1 33.15 (34.10)

Q 99.00>83.00 (-) 2.40e4



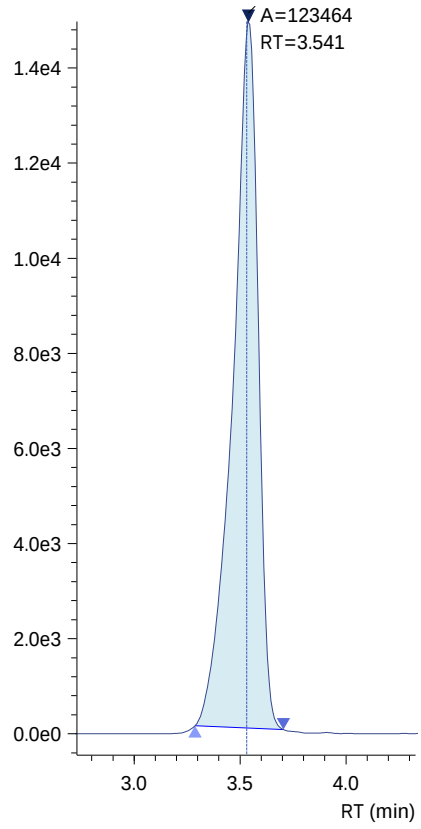
R1 101.00>85.00 (-) A=65871 7.89e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

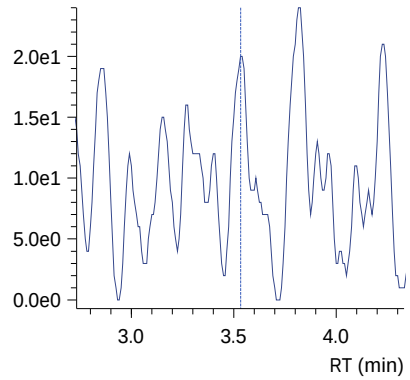
Sample ID: IB
Date Acquired: 4/19/2024 12:53:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	144538	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.540	144538	144538	1.0000	ng/mL	----	----	

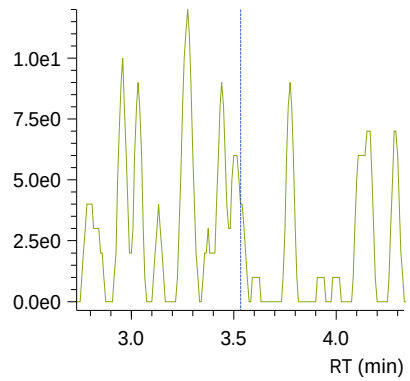
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



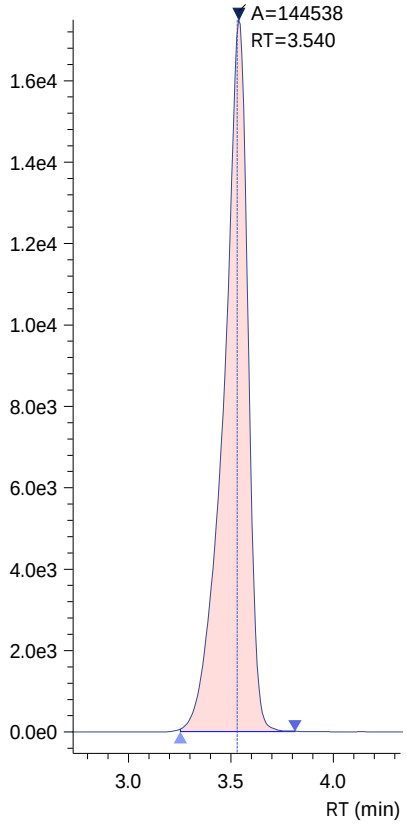
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.75e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

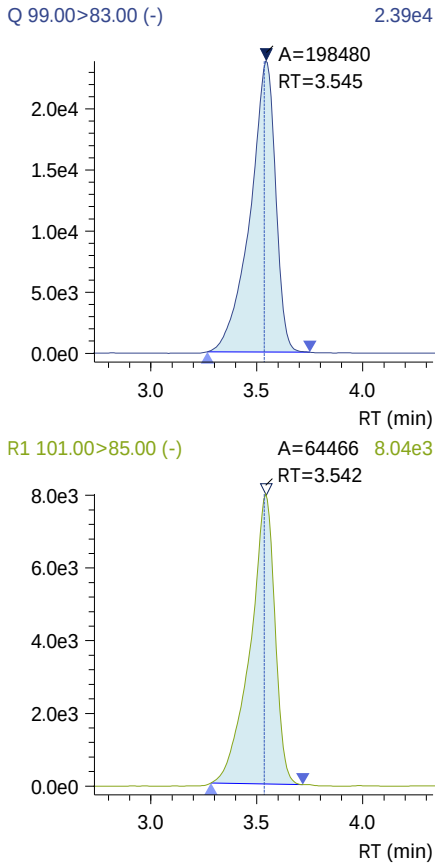
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 2:31:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.545	198480	122485	10.4586	ng/mL	101.00 >85.00	32.48	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.541	122485	122485	1.0000	ng/mL	----	----	

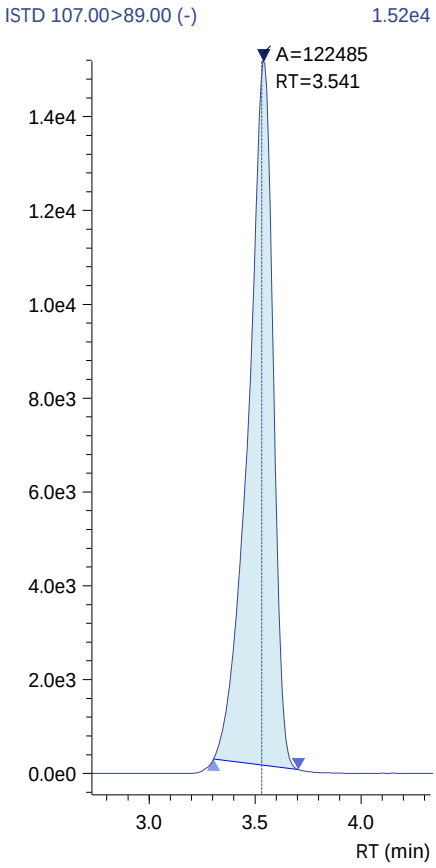
Perchlorate

Conc 10.4586
R#1 32.48 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/24/2024 10:00:22 AM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

IB

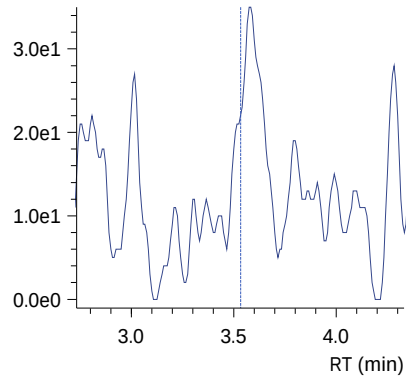
Sample ID: IB
Date Acquired: 4/19/2024 2:37:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	137854	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.540	137854	137854	1.0000	ng/mL	----	----	

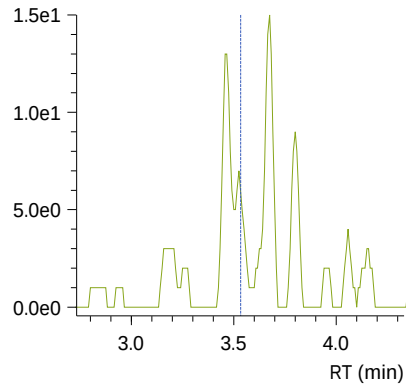
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.50e1



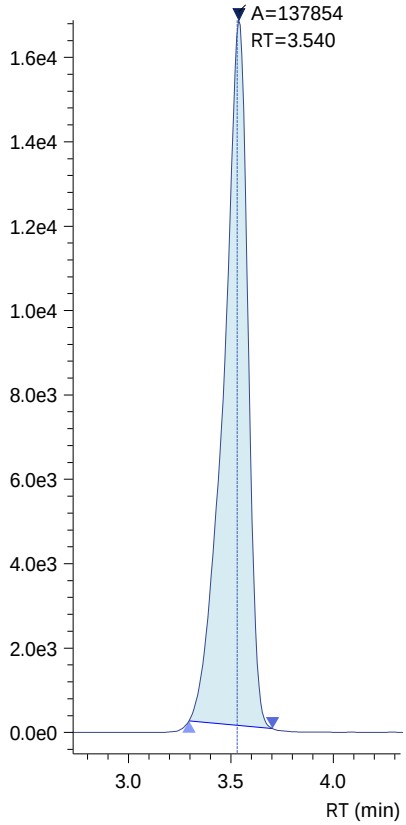
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.69e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

E2400363-001

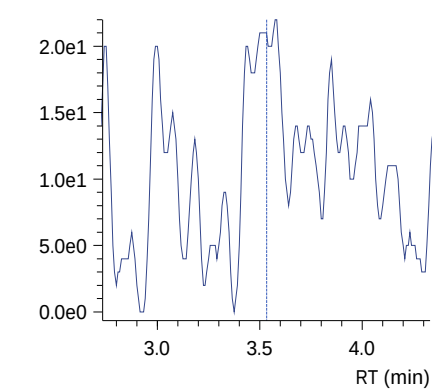
Sample ID: E2400363-001
Date Acquired: 4/19/2024 2:48:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-032.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	131796	----	ng/mL	101.00 >85.00	0.00	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.538	131796	131796	1.0000	ng/mL	----	----	

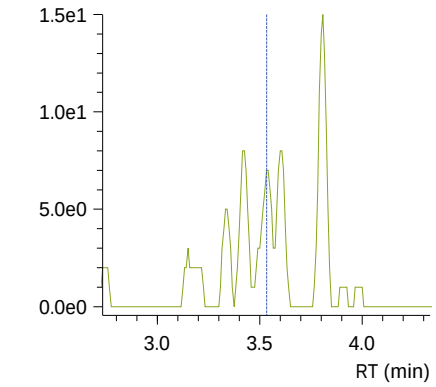
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.20e1



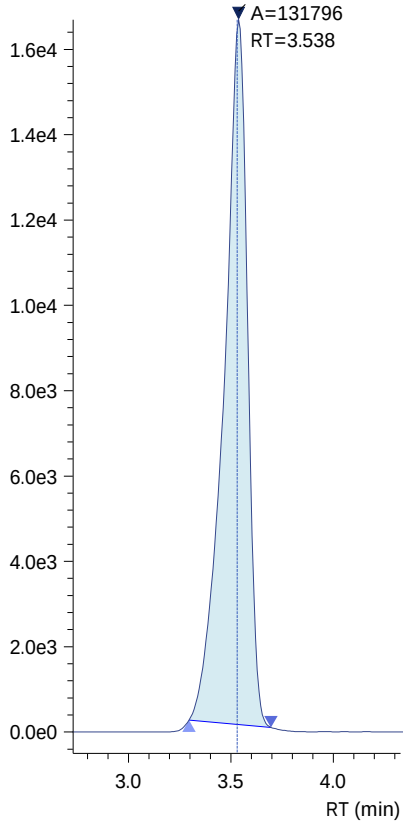
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.67e4



Insight Report

Printed at 4/24/2024 9:48:07 AM

CCV

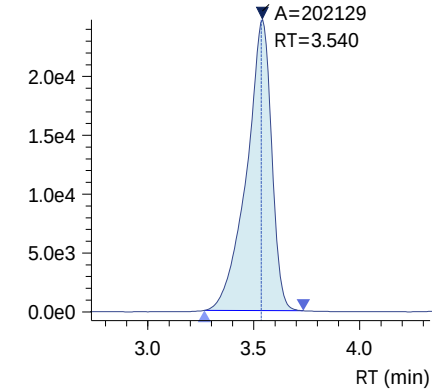
Sample ID: CCV
Date Acquired: 4/19/2024 3:38:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.540	2021 29	124265	10.4 984	ng/mL	101.00 >85.00	32.60	23.32 -42.56
Sodium Perchlorate-18O4_IS	Auto	3.534	1242 65	124265	1.0000	ng/mL	----	----	

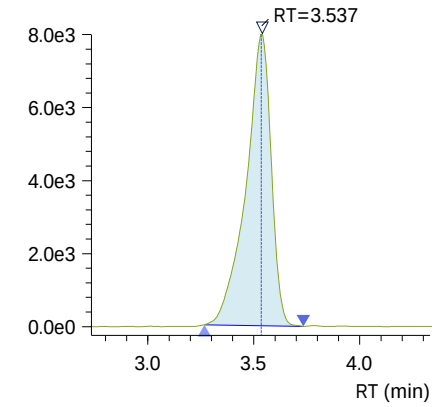
Perchlorate

Conc 10.4984
R#1 32.60 (34.10)

Q 99.00>83.00 (-) 2.48e4



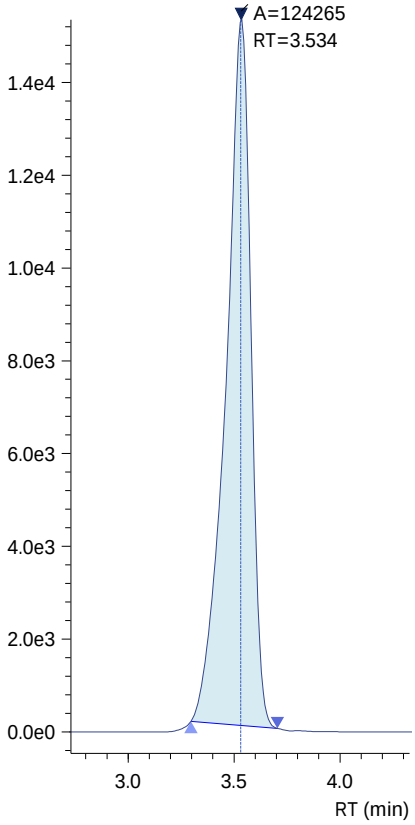
R1 101.00>85.00 (-) A=65896 8.00e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 4/24/2024 10:00:22 AM

IB

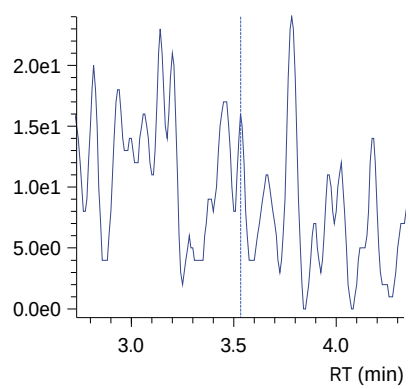
Sample ID: IB
Date Acquired: 4/19/2024 3:43:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	141047	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.535	141047	141047	1.0000	ng/mL	----	----	

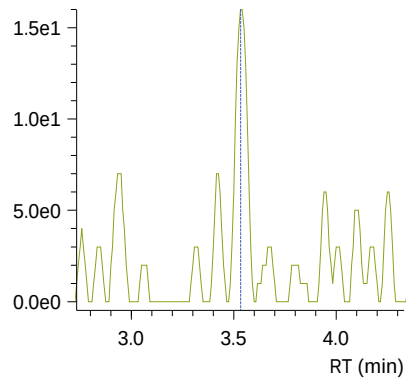
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



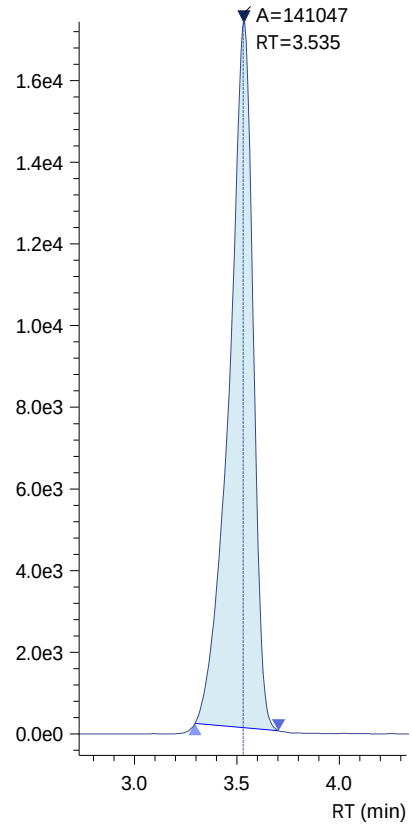
R1 101.00>85.00 (-) 1.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.74e4



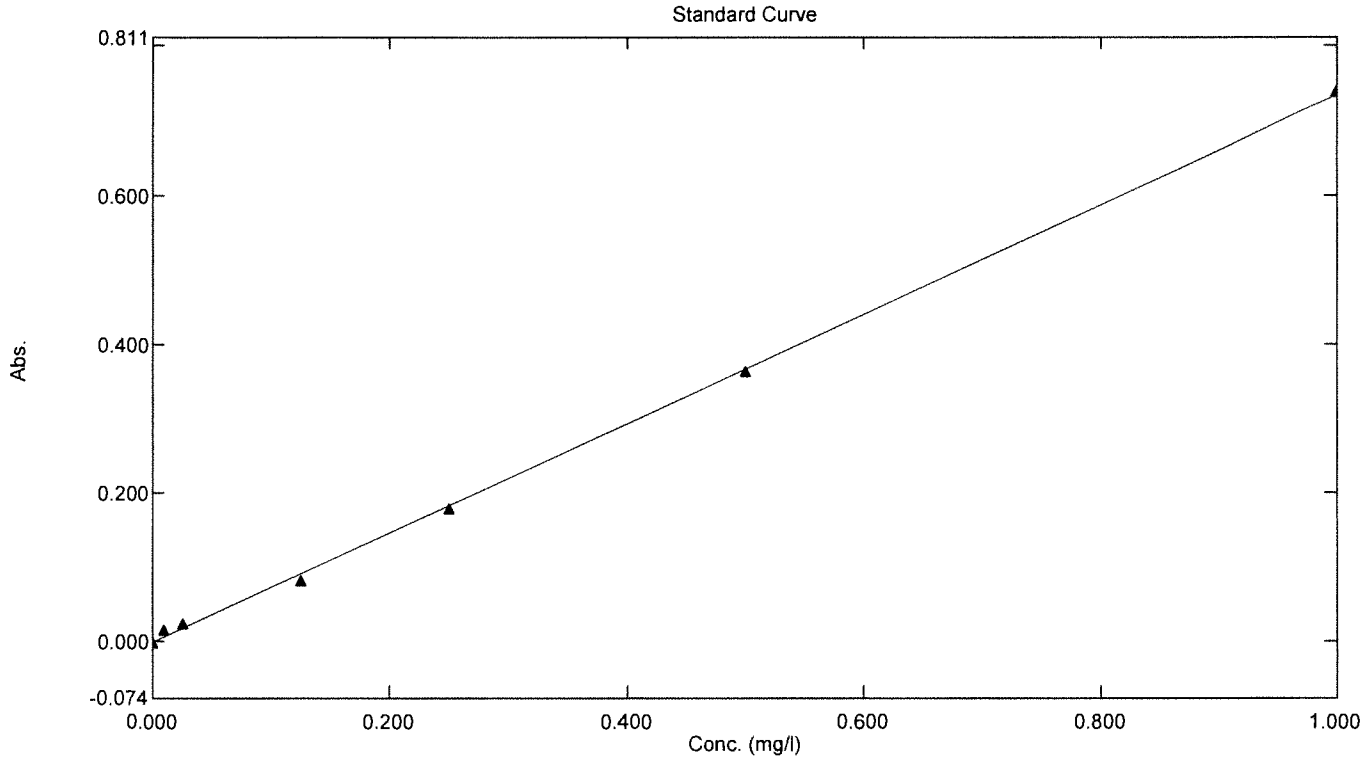
HS24040786 Wetchem Cr6_W_7196_DOD

ALS WO# HS24040786

Standard Table Report

04/17/2024 06:31:24 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\04112024CR6_W.pho



Correlation Coefficient r2 = 0.99943

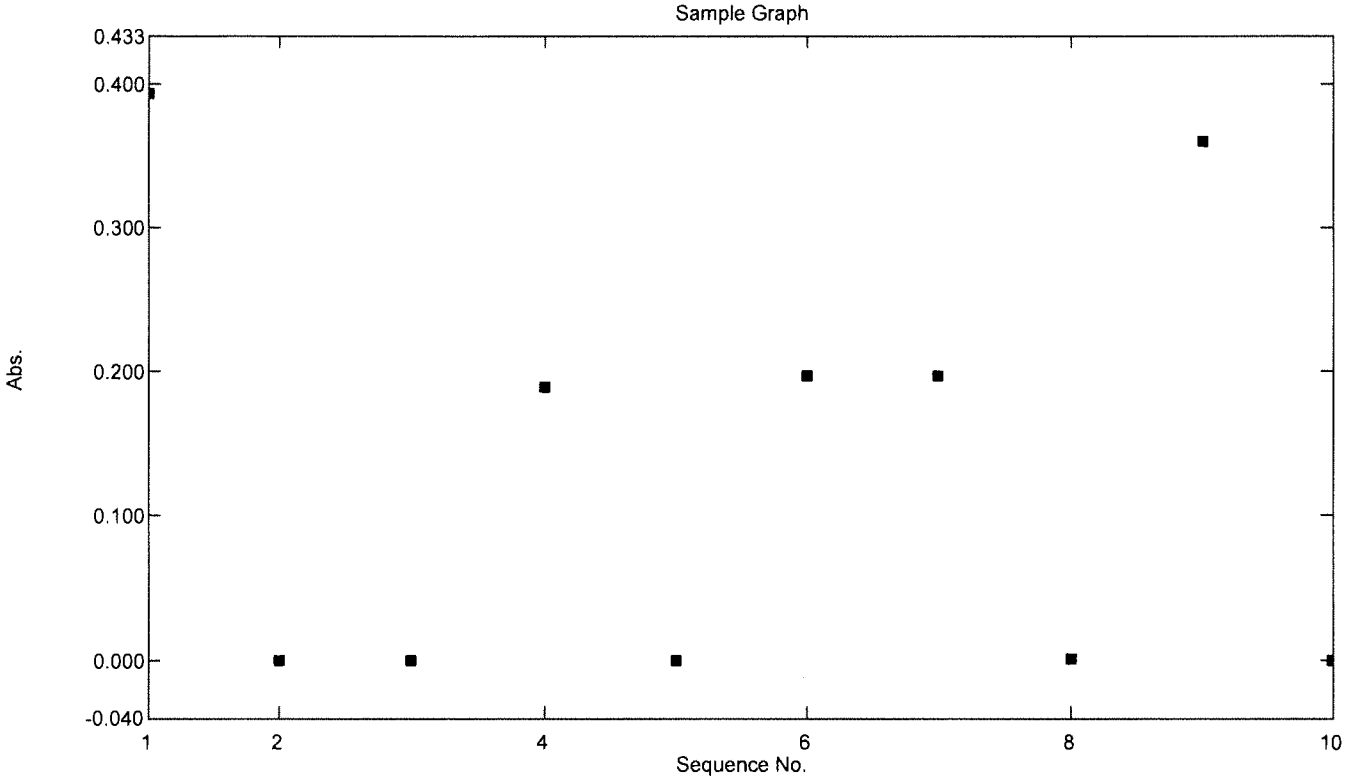
Standard Table

	Sample ID	Type	Ex	Conc	WL540.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.016	1.000	
3	STD3	Standard		0.025	0.024	1.000	
4	STD4	Standard		0.125	0.082	1.000	
5	STD5	Standard		0.250	0.179	1.000	
6	STD6	Standard		0.500	0.363	1.000	
7	STD7	Standard		1.000	0.737	1.000	05/22/2024
8							

Sample Table Report

04/17/2024 06:31:33 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\CR6+_UNKNOWN\2024\04112024CR6_W.pho



Sample Table

	Sample ID	Type	Ex	Date	Time	Conc	WL540.0	Comments
1	CCV	Unknown		04/11/2024	11:42:26 AM	0.537	0.394	325101101 WC-19
2	CCB	Unknown		04/11/2024	11:43:01 AM	-0.000	-0.000	3100608622
3	MBLK	Unknown		04/11/2024	11:43:10 AM	-0.000	-0.000	325101010 WC-29
4	LCS	Unknown		04/11/2024	11:48:22 AM	0.258	0.189	325101004 WC-19
5	HS24040784.01	Unknown		04/11/2024	11:49:44 AM	0.000	0.000	3100608022
6	HS24040784.01MS	Unknown		04/11/2024	11:50:18 AM	0.268	0.197	
7	HS24040784.01MSD	Unknown		04/11/2024	11:50:57 AM	0.268	0.197	
8	HS24040786.01	Unknown		04/11/2024	11:52:48 AM	0.001	0.001	
9	CCV2	Unknown		04/11/2024	11:53:30 AM	0.491	0.360	
10	CCB2	Unknown		04/11/2024	11:54:12 AM	-0.001	-0.001	
11								

HS24040786-MSSEMI-SW8270SIM

ALS WO# HS24040786

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Form 1

Organic Analysis Data Sheet

EPA 3510

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

EPA 3510

LH18/24-SP650_041024	Collected	Received	Matrix	Basis
HS24040786-01	04/10/24 13:00	04/11/24 09:30	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.18	a	0.10	0.10	0.10	10	04/19/24 14:23	SV-6_464558	07.D	210508

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24040786

Semi-Volatiles by Semivolatiles SIM

RUNID: SV-6-464558

LH18/24-SP650_041024

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24040786-01	SV6	Water	04/19/24 14:23	%REC	10

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.063	0.08	78.7		40-140
4-Terphenyl-d14	07.D	0.072	0.08	90.2		40-140
Nitrobenzene-d5	07.D	0.088	0.08	109		40-140

LCS-210508

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
LCS-210508	SV6	Aqueous	04/18/24 16:45	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	14.D	0.05113	0.08	63.9		40-140
4-Terphenyl-d14	14.D	0.05574	0.08	69.7		40-140
Nitrobenzene-d5	14.D	0.05875	0.08	73.4		40-140

LCSD-210508

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
LCSD-210508	SV6	Aqueous	04/18/24 17:03	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	15.D	0.06026	0.08	75.3		40-140
4-Terphenyl-d14	15.D	0.05227	0.08	65.3		40-140
Nitrobenzene-d5	15.D	0.04912	0.08	61.4		40-140

MBLK-210508

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
MBLK-210508	SV6	Aqueous	04/19/24 13:48	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	06.D	0.06224	0.08	77.8		40-140
4-Terphenyl-d14	06.D	0.06622	0.08	82.8		40-140
Nitrobenzene-d5	06.D	0.0698	0.08	87.3		40-140

Form 2 - System Monitoring Compound Recovery

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

EPA 3510

SAMPLENUM LCS-210508

SV-6_464558				LCS-210508		LCSD-210508		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	04/18/24	Run Date	04/18/24	
Prep Date	04/16/24	Analysis Batch	210508	Run Time	16:45	Run Time	17:03	
Prep Method	SW3510	Prep Batch	210508	Prep Amt	1000 mL	Prep Amt	1000 mL	

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.05244	66		0.05566	70		20	5.94	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-210508	04/16/24	210508	Aqueous	04/19/24 13:48	210508	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-210508	LCS-210508	LCS	04/18/24 16:45	210508	SV6	14.D
LCSD-210508	LCSD-210508	LCSD	04/18/24 17:03	210508	SV6	15.D
LH18/24-SP650_041024	HS24040786-01	SAMP	04/19/24 14:23	210508	SV6	07.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 BFB Injection Date: 12/12/23

Instrument ID: SV6 BFB Injection Time: 1121

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.0
68	Less than 2.0% of mass 69	0.5 (1.7)1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.1 (0.4)1
127	10.0 - 80.0% of mass 198	40.3
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	30.2
365	1.0 - 100.0% of mass 198	4.2
441	Present, but less than mass 443	19.4
442	50.0 - 150.0% of mass 198	129.6
443	15.0 - 24.0% of mass 442	25.8 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAHSIM-0.08	PAHSIM-0.08	03	12/12/23	1320
02	PAHSIM-0.010	PAHSIM-0.010	04	12/12/23	1358
03	PAHSIM-0.025	PAHSIM-0.025	05	12/12/23	1418
04	PAHSIM-0.050	PAHSIM-0.050	06	12/12/23	1439
05	PAHSIM-0.10	PAHSIM-0.10	07	12/12/23	1459
06	PAHSIM-0.15	PAHSIM-0.15	08	12/12/23	1519
07	PAHSIM-0.20	PAHSIM-0.20	09	12/12/23	1539
08	PAHSIM-0.50	PAHSIM-0.50	10	12/12/23	1559
09	PAHSIM ICV-0.08	PAHSIM ICV-0.08	11	12/12/23	1619
10					
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder **HS24040786**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-464558

Tune File 01.D 04/18/24 4/18/2024

m / e	Ion Abundance Criterion	%RA
51	10.0 - 80.0% of mass 198	23.6 (23.6)
68	Less than 2.0% of mass 69	0.5 (1.76) 1
69	Mass 69 RA	28.8 (28.8)
70	Less than 2.0% of mass 69	0.2 (0.54) 1
127	10.0 - 80.0% of mass 198	39.7 (39.7)
197	Less than 2.0% of mass 198	0.4 (0.379)
198	Base peak, 100% RA	100 (71.5)
199	5.0 - 9.0% of mass 198	6.7 (6.71)
275	10.0 - 60.0% of mass 198	30.4 (30.4)
365	Greater than 1.0% of mass 198	4 (3.97)
441	Present, but < 24.0% of mass 442	20.5 (74.3)
442	greater than 50.0% of mass 198	139.9 (140)
443	15.0 - 24.0% of mass 442	27.6 (19.7) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	SLSTD-2.5	CCV	4/18/2024	02	SLSTD-2.5
2	14DX-0.08	ICAL4	4/18/2024	03A	14DX-0.08
3	14DX-0.01	ICAL1	4/18/2024	04	14DX-0.01
4	14DX-0.03	ICAL2	4/18/2024	05	14DX-0.03
5	14DX-0.05	ICAL3	4/18/2024	06	14DX-0.05
6	14DX-0.10	ICAL5	4/18/2024	07	14DX-0.10
7	14DX-0.15	ICAL6	4/18/2024	08	14DX-0.15
8	14DX-0.20	ICAL7	4/18/2024	09	14DX-0.20
9	14DX-0.50	ICAL8	4/18/2024	10	14DX-0.50
10	14DX ICV-	ICV	4/18/2024	11	14DX ICV-0.08
11	LCS-210508	LCS	4/18/2024	14	LCS-210508
12	LCSD-210508	LCSD	4/18/2024	15	LCSD-210508
13	14DX-CCV	CCV	4/18/2024	17	14DX-CCV END
14	MBLK-210508	MBLK	4/19/2024	06	MBLK-210508
15	HS24040786-	SAMP	4/19/2024	07	LH18/24-SP650_041024

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	% RSD
1 1,4-Dioxane	0.26786 0.21892	0.20193 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 13 Phenol-d6	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

Report Date : 06-Jun-2024 14:05 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2022 15:40
End Cal Date : 25-MAR-2022 18:40
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240325.b\R8270DLL.m
Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\220325.b\003.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\220325.b\004.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\220325.b\005.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\220325.b\006.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\220325.b\007.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\220325.b\008.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\220325.b\009.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\220325.b\010.D

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 1,4-Dioxane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
392 Methomyl	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
374 Triethylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

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Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 N-Nitrosodimethylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
3 Pyridine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
4 Ethyl methacrylate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
6 2-Picoline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
330 bis(chloromethyl)ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
7 N-Nitrosomethylethylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
8 Methyl methanesulfonate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000

ALS Laboratory Group

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Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 7.5000 Level 7	0.2000000 Level 2 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
10 N-Nitrosodiethylamine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
5 Pyrazole	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
11 Ethyl methanesulfonate	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
12 Benzaldehyde	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
15 Aniline	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
14 Phenol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
16 Pentachloroethane	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

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Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
17 Bis(2-chloroethyl)ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
18 2-Chlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
393 Diacetone alcohol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
19 1,3-Dichlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
21 1,4-Dichlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
22 Benzyl Alcohol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
23 1,2-Dichlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
24 2-Methylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
25 bis(2-Chloroisopropyl)ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
394 1-Methyl-2-pyrrolidone(1) (2)	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
30 N-Nitrosopyrrolidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
27 Acetophenone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
28 N-Nitroso-di-n-propylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	

ALS Laboratory Group

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Compound	0.1000000 Level 1 7.5000 Level 7	0.2000000 Level 2 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
32 N-Nitrosomorpholine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
34 o-Toluidine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
29 3&4-Methylphenol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
31 Hexachloroethane	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
35 Nitrobenzene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
39 N-Nitrosopiperidine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
389 Maleic anhydride	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	

ALS Laboratory Group

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Method file : \\NAHSTWS005\Target\chem\SV6.i\240325.b\R8270DLL.m
Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
36 Isophorone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
37 2-Nitrophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
40 2,4-Dimethylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
331 Benzal Chloride	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
52 O,O,O-Triethylphosphorothioat	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
41 Bis(2-chloroethoxy)methane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
42 Benzoic Acid	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240325.b\R8270DLL.m
Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
375 1,3-Phenylenediamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
365 Tetraethyl lead	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
271 2,4-Dimethylaniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
43 2,4-Dichlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
272 o-Anisidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
53 a,a-Dimethylphenethylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
44 1,2,4-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

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Start Cal Date : 25-MAR-2022 15:40
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240325.b\R8270DLL.m
Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
325 Catechol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
384 4-Chorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
387 3&4-Chlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
46 Naphthalene	1.05195 / 0.98071	1.00194 / 0.97832	0.98702	0.96687	0.98487	0.96193 /	AVRG		0.98920		2.84808
385 2-Propyl heptanol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
26 4-Bromopyrazole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
48 4-Chloroaniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

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Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
49 2,6-Dichlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
50 Hexachloropropene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
335 Sulfolane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
383 Methamidophos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
51 Hexachlorobutadiene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
332 Benzotrichloride	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
273 o-Phenylenediamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

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Last Edit : 25-Mar-2024 13:35 marco.gutierrez

Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 Quinoline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
312 Dichlorvos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
70 p-Phenylenediamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
72 N-Nitrosodi-n-butylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
57 Caprolactam	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
274 p-Cresidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
58 4-Chloro-3-Methylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
59 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
61 2-Methylnaphthalene	0.67515	0.64116	0.64655	0.64056	0.65757	0.63685					
	0.65084	0.64693					AVRG		0.64945		1.88535
62 1-Methylnaphthalene	0.66570	0.63470	0.63223	0.64046	0.63012	0.61566					
	0.62478	0.62204					AVRG		0.63321		2.40583
376 Phthalic acid	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
388 Phthalic anhydride	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
38 2,6-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
63 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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64 1,2,4,5-Tetrachlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
187 2,3-Dichloroaniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
275 EPTC	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
66 2,4,6-Trichlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
68 2,4,5-Trichlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
47 Quinazoline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
71 Isosafrole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
73 1,1'-Biphenyl	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
391 3,4-Dichlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
74 2-Chloronaphthalene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
75 1-Chloronaphthalene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
76 Diphenyl ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
54 Benzonitrile	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
77 2-Nitroaniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
334 Dimethyl naphthalene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
78 1,4-Naphthoquinone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
313 Mevinphos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
276 Butylate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
56 Isophthalonitrile	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
277 Vernolate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
249 3,4-Dichloroaniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
278 Etradiazole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
79 1,4-Dinitrobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
80 Dimethylphthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
279 Pebulate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
81 1,3-Dinitrobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
82 2,6-Dinitrotoluene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
83 Acenaphthylene	1.71799 / 1.77246	1.63388 / 1.75992	1.70030	1.71362	1.78599	1.74526 /	AVRG		1.72868		2.81571

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
84 1,2-Dinitrobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
60 Benzenethiol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
85 3-Nitroaniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
88 Acenaphthene	1.09156 / 1.05356	1.05255 / 1.05385	1.02606	1.03695	1.06868	1.02456 /	AVRG		1.05097		2.12572
89 2,4-Dinitrophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
280 Tebuthiuron	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
91 Pentachlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 7.5000 Level 7	0.2000000 Level 2 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
90 4-Nitrophenol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
92 Dibenzofuran	1.67878 1.56979	1.56378 1.55677	1.57118	1.57007	1.61761	1.55232	AVRG		1.58504		2.69980
93 2,4-Dinitrotoluene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
65 Indene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
67 2-Chloroquinoxaline	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
106 1-Naphthylamine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
95 2,3,5,6-Tetrachlorophenol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
94 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
281 Molinate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
250 Ethylene thiourea	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
109 2-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
97 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
98 Fluorene	1.30622	1.20289	1.21548	1.25510	1.29980	1.24879					
	1.24812	1.24868					AVRG		1.25313		2.86244
117 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
99 4-Chlorophenyl phenyl ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
116 5-Nitro-o-toluidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
100 4-Nitroaniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
282 Propachlor	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
101 4,6-Dinitro-2-methylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
102 N-Nitrosodiphenylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
103 Diphenylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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104 1,2-Diphenylhydrazine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
314 Ethoprophos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
283 Cycloate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
284 Chlorpropham	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
127 Tetraethyldithiopyrophosphate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
285 Trifluralin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
107 sym-Trinitrobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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108 Diallate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
129 Phorate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
87 n-Decane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
110 Phenacetin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
260 Nonylphenol-1	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
261 Nonylphenol-2	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
262 Nonylphenol-3	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
263 Nonylphenol-4	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
264 Nonylphenol-5	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
265 Nonylphenol-6	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
266 Nonylphenol-7	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
267 Nonylphenol-8	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
M 268 Nonylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
112 4-Bromophenyl-phenylether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 7.5000 Level 7	0.2000000 Level 2 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
113 Hexachlorobenzene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
286 Atraton	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
133 Dimethoate	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
287 Prometon	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
288 Simazine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
118 Atrazine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
289 Propazine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
121 Pentachlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
135 4-Aminobiphenyl	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
315 Terbufos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
122 Pentachloronitrobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
96 Propylene glycol methyl ether	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
125 Pronamide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
128 Phenanthrene	1.12430 / 1.02521	1.00306 / 1.03267	1.00923	1.00942	1.05878	1.01536 /	AVRG		1.03476		3.89411

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Compound	0.1000000 Level 1 7.5000 Level 7	0.2000000 Level 2 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
137 Dinoseb	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
316 Diazinon	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
138 Disulfoton	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
130 Anthracene	1.03840 1.00768	0.95578 1.01137	1.00421	1.01263	1.02629	0.98911	AVRG	1.00568		2.47780	
290 Terbacil	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
317 Methylparaoxon	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
134 Carbazole	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
252 4-Dodecylphenol-1	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
253 4-Dodecylphenol-2	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
254 4-Dodecylphenol-3	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
255 4-Dodecylphenol-4	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
256 4-Dodecylphenol-5	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
257 4-Dodecylphenol-6	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
258 4-Dodecylphenol-7	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
M 259 4-Dodecylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
291 Metribuzin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
292 Simetryne	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
293 Alachlor	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
294 Ametryn	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
295 Prometryne	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
296 Terbutryn	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
142 Methyl parathion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
363 Carbaryl	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
114 Acetic anhydride	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
115 n-Octane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
140 Di-n-butylphthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
297 Bromacil	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
298 Metolachlor	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
318 Chlorpyrifos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
119 1-Nonene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
120 1-Octene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
143 4-Nitroquinoline-1-oxide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
147 Parathion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
381 Ethyl parathion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	
123 Chlorothalonil	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
124 alpha-BHC	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
150 Methapyrilene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
362 Diuron	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
146 Isodrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
131 gamma-BHC	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
132 beta-BHC	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
299 Cyanazine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
300 Triadimefon	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
301 MGK-264(1)	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
302 Diphenamide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
303 MGK-264(2)	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
M 304 MGK-264	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
149 Fluoranthene	0.99475 / 1.07633	0.91690 / 1.06325	0.95926	0.96286	1.09216	1.05660 /	AVRG		1.01526		6.40863
319 Merphos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
152 Benzidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
136 delta-BHC	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
305 Butachlor	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
320 Stirofos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
155 Pyrene	1.43649 / 1.30174	1.31792 / 1.30794	1.29562	1.36587	1.32943	1.27241	AVRG		1.32843		3.87378
270 N-phenyl-alpha-naphthylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
322 Disulfoton sulfone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
139 Dacthal	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
323 Fenamiphos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
306 Napropamide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
307 Tricyclazole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
159 Aramite(1)	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
141 Heptachlor	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
161 Aramite(2)	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
167 p-Dimethylaminoazobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
324 Carboxin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
166 Chlorobenzilate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
144 Dicyclopentadiene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
145 Aldrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
170 Famphur	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
171 3,3'-Dimethylbenzidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
172 Kepone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
173 Butylbenzylphthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
308 Norflurazon	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
309 Hexazinone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
148 Heptachlor epoxide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
151 gamma-Chlordane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
176 2-Acetylaminofluorene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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153 Endosulfan I	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000			0.000e+000
154 alpha-Chlordane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000			0.000e+000
156 4,4'-DDE	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000			0.000e+000
157 Dieldrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000			0.000e+000
160 Endrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000			0.000e+000
181 Benzo(a)Anthracene	0.93058 / 1.05944	0.81198 / 1.07084	0.82502	0.84415	0.99137	0.96951 /	AVRG	0.93786			10.94410
180 3,3'-Dichlorobenzidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000			0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
M 162 Aramite	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
183 Chrysene	1.57319 / 1.27482	1.42690 / 1.30352	1.32136	1.40959	1.30792	1.23706	AVRG		1.35680		7.98043
163 Endosulfan II	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
164 4,4'-DDD	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
165 Endrin aldehyde	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
184 bis(2-ethylhexyl)phthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
310 Fenarimol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
168 Endosulfan sulfate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
169 4,4'-DDT	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
174 Endrin ketone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
175 Bis 2-ethylhexyl adipate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
177 Methoxychlor	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
178 n-Octadecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
326 cis-Permethrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
327 trans-Permethrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
M 328 Permethrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
364 Mirex	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
190 Di-n-octylphthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
179 Benzo(e)pyrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
192 Benzo(b)fluoranthene	7122 / 979972	15182 / 1167387	34061	55378	361345	511253	QUAD	0.07233	1.24437	-0.06024	0.99820
382 Benzo(j)fluoranthene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
193 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
195 Benzo(k)fluoranthene	1.13385	1.10947	1.36219	1.64469	1.66900	1.74898					
	1.73716	1.66653					AVRG		1.50899		17.71822
186 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
197 Benzo(a)pyrene	8645	17775	41017	69214	419467	604034					
	1058288	1219385					LINR	0.12107	1.10730		0.99753
188 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
311 Fluridone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
189 Dicofol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
191 1,2,3-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
201 3-Methylcholanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
194 Acrylamide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
196 2,4'-DDE	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
329 tris(2,3-dibromopropyl)phosph	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
208 Dibenz(a,j)acridine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000
199 Acetoacetanilide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 7.5000 Level 7	0.2000000 Level 2 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
209 Indeno(1,2,3-cd)pyrene	11156 1167390	12078 1344741	31640	55655	450028	659531	LINR	0.15912	1.23164		0.99666
210 Dibenzo(a,h)anthracene	8808 943901	10245 1086468	29296	49993	354612	494031	QUAD	0.08829	1.25114	-0.05321	0.99753
251 Dibenzo(a,h)acridine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
200 Azinphosmethyl	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
202 1,2,3,5-Tetrachlorobenzene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
203 1,2,3,4-Tetrachlorobenzene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
204 2,4'-DDD	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 7.5000 Level 7	0.2000000 Level 2 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
212 Benzo(g,h,i)perylene	1.19312 1.07437	0.69043 1.11534	0.78508	0.84348	1.09862	1.02357	AVRG	0.97800			18.49627
205 2,4'-DDT	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
206 p-Toluidine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
211 1-(2-Hydroxyethyl)piperazine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
213 2,5-Dimethylphenol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
M 214 Cresols, Total	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
215 2,4-Diaminotoluene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
216 6-Methyl chrysene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
217 Toluene diisocyanate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
386 Toluene diamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
347 TEPP	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
336 Demeton-O	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
337 Ethoprop	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
338 Naled	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
348 Sulfotepp	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
349 Monocrotophos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
339 Demeton-S	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
350 Fonofos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
351 Phosphamidon	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
340 Ronnel	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
352 Malathion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
341 Fenthion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
361 Trichloronate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
353 Chlorfenvinfos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
342 Tokuthion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
343 Fensulfothion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
354 Ethion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
344 Bolstar	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
355 Carbophenothion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
356 Phosmet	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
357 EPN	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
358 Leptophos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
345 Azinphos-methyl	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
359 Azinphos-ethyl	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
360 Dioxathion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
346 Coumaphos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
367 Aspon	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
368 Chlorpyrifos methyl	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
369 Crotoxyphos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
370 Dichlofenthion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
371 Dicrotophos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
372 Dylox	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
373 Fenitrothion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
377 Ethalfluralin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
378 Carbofuran	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
379 Acetochlor	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
390 Tetrachlorvinphos	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
380 Pendimethalin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++ / +++++	AVRG	0.000e+000		0.000e+000	
$ 9 2-Fluorophenol	0.83930 / 1.06588	0.67434 / 0.89243	0.82645	0.81789	1.11910	1.01488 /	AVRG	0.90628		16.43072	

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Compound	0.1000000 Level 1 / 7.5000 Level 7	0.2000000 Level 2 / 10.0000 Level 8	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 13 Phenol-d6	1.46910	1.46082	1.39048	1.41287	1.53414	1.49564					
	1.54322	1.53630					AVRG		1.48032		3.90148
$ 33 Nitrobenzene-d5	0.34024	0.35049	0.33856	0.33770	0.34374	0.34012					
	0.34810	0.34336					AVRG		0.34279		1.33231
$ 69 2-Fluorobiphenyl	1.44310	1.38082	1.34242	1.38090	1.39874	1.35475					
	1.35088	1.35518					AVRG		1.37585		2.41216
$ 105 2,4,6-Tribromophenol	0.15952	0.17099	0.18165	0.20480	0.22993	0.22222					
	0.22698	0.22819					AVRG		0.20303		14.02815
$ 111 Tetrachloro-m-xylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 158 4-Terphenyl-d14	0.98752	0.90979	0.91470	1.00205	1.00410	0.97903					
	1.00094	0.99927					AVRG		0.97467		4.04883
$ 185 Decachlorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix	LIQUID	**Fraction**	SV
Lab Smp Id	14DX ICV-0.08	**Client Smp ID**	14DX ICV-0.08
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	11.D	**Inj Date**	18-APR-2024 1453

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.080	0.076	94.6	40-140	
Nitrobenzene-d5	0.080	0.073	91.4	40-140	
2-Fluorobiphenyl	0.080	0.070	88.0	40-140	
4-Terphenyl-d14	0.080	0.071	88.2	40-140	

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Matrix Spike - Sample No.: 14DX ICV-0.08

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
1,4-Dioxane	0.08000	0.07572	95	40-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III SV

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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

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Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID 02.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 02.D
Analysis Type WATER
Lab Sample ID SLSTD-2.5

Injection Date 18-APR-2024 1051
ICAL Date(s) 25-MAR-2022, 25-MAR-2022
ICAL Times 15:40, 18:40
Quant Type ISTD

Compound	RRF / Conc	RF3	CCV RRF3	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
2-Fluorophenol	0.906	1.32	1.32	0.010	45.6	20.0	Averaged	*
13 Phenol-d6	1.48	1.48	1.48	0.010	-0.084	20.0	Averaged	
33 Nitrobenzene-d5	0.343	0.337	0.337	0.010	-1.777	20.0	Averaged	
69 2-Fluorobiphenyl	1.38	1.45	1.45	0.010	5.10	20.0	Averaged	
105 2,4,6-Tribromophenol	0.203	0.392	0.392	0.010	93.0	20.0	Averaged	*
158 4-Terphenyl-d14	0.975	1.23	1.23	0.010	26.7	20.0	Averaged	*
1,4-Dioxane	++++	0.038	0.038	0.010	++++	20.0	Averaged	*
Naphthalene	0.989	1.12	1.12	0.700	13.3	20.0	Averaged	
2-Methylnaphthalene	0.649	0.760	0.760	0.400	17.0	20.0	Averaged	
1-Methylnaphthalene	0.633	0.712	0.712	0.010	12.5	20.0	Averaged	
Acenaphthylene	1.73	1.81	1.81	0.900	4.69	20.0	Averaged	
Acenaphthene	1.05	1.25	1.25	0.900	18.6	20.0	Averaged	
Dibenzofuran	1.59	1.88	1.88	0.800	18.8	20.0	Averaged	
Fluorene	1.25	1.51	1.51	0.900	20.8	20.0	Averaged	*
Phenanthrene	1.03	1.13	1.13	0.700	8.90	20.0	Averaged	
Anthracene	1.01	1.13	1.13	0.700	11.9	20.0	Averaged	
Fluoranthene	1.02	1.34	1.34	0.600	31.8	20.0	Averaged	*
Pyrene	1.33	1.53	1.53	0.600	15.2	20.0	Averaged	
Benzo(a)Anthracene	0.938	1.46	1.46	0.800	55.3	20.0	Averaged	*
Chrysene	1.36	1.54	1.54	0.700	13.6	20.0	Averaged	
Benzo(b)fluoranthene	2.50	3.78	1.27	0.700	51.2	20.0	Quadratic	*
Benzo(k)fluoranthene	1.51	1.54	1.54	0.700	1.99	20.0	Averaged	
Benzo(a)pyrene	2.50	3.08	1.26	0.700	23.1	20.0	Linear	*
Indeno(1,2,3-cd)pyrene	2.50	3.10	1.37	0.500	24.2	20.0	Linear	*
Dibenzo(a,h)anthracene	2.50	3.61	1.17	0.400	44.5	20.0	Quadratic	*
Benzo(g,h,i)perylene	0.978	1.24	1.24	0.500	26.6	20.0	Averaged	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID 17.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 17.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 18-APR-2024 1738
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.241	0.010	-19.681	50.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.22	0.010	-20.231	50.0	Averaged	*
158 4-Terphenyl-d14	2.04	1.58	0.010	-22.366	50.0	Averaged	*
1,4-Dioxane	0.214	0.156	0.010	-27.324	50.0	Averaged	*

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

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Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	**HS24040786**	

Semi-Volatiles by Semivolatiles SIM

RUNID
SV-6-454425

Run ID SV-6_454425 **Start Date** 12/12/23 **EndDate** 12/12/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
13:20	PAHSIM-0.08	ICAL4	PAHSIM-0.08	03.D	12/12/23	1
13:58	PAHSIM-0.010	ICAL1	PAHSIM-0.010	04.D	12/12/23	1
14:18	PAHSIM-0.025	ICAL2	PAHSIM-0.025	05.D	12/12/23	1
14:39	PAHSIM-0.050	ICAL3	PAHSIM-0.050	06.D	12/12/23	1
14:59	PAHSIM-0.10	ICAL5	PAHSIM-0.10	07.D	12/12/23	1
15:19	PAHSIM-0.15	ICAL6	PAHSIM-0.15	08.D	12/12/23	1
15:39	PAHSIM-0.20	ICAL7	PAHSIM-0.20	09.D	12/12/23	1
15:59	PAHSIM-0.50	ICAL8	PAHSIM-0.50	10.D	12/12/23	1
16:19	PAHSIM ICV-0.08	ICV	PAHSIM ICV-0.08	11.D	12/12/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder **HS24040786**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-464558

Run ID SV-6_464558 **Start Date** 04/18/24 **EndDate** 04/19/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:51	SLSTD-2.5	CCV	SLSTD-2.5	02.D	04/18/24	1
12:24	14DX-0.08	ICAL4	14DX-0.08	03A.D	04/18/24	1
12:49	14DX-0.01	ICAL1	14DX-0.01	04.D	04/18/24	1
13:07	14DX-0.03	ICAL2	14DX-0.03	05.D	04/18/24	1
13:25	14DX-0.05	ICAL3	14DX-0.05	06.D	04/18/24	1
13:48	MBLK-210508	MBLK	MBLK-210508	06.D	04/19/24	1
13:42	14DX-0.10	ICAL5	14DX-0.10	07.D	04/18/24	1
14:23	HS24040786-01	SAMP	LH18/24-	07.D	04/19/24	10
14:00	14DX-0.15	ICAL6	14DX-0.15	08.D	04/18/24	1
14:18	14DX-0.20	ICAL7	14DX-0.20	09.D	04/18/24	1
14:35	14DX-0.50	ICAL8	14DX-0.50	10.D	04/18/24	1
14:53	14DX ICV-0.08	ICV	14DX ICV-0.08	11.D	04/18/24	1
15:39	HS24041063-01	SAMP	ZZZZZZZZZZ	11.D	04/19/24	100000
16:14	HS24041063-02	SAMP	ZZZZZZZZZZ	13.D	04/19/24	100000
16:45	LCS-210508	LCS	LCS-210508	14.D	04/18/24	1
17:03	LCSD-210508	LCSD	LCSD-210508	15.D	04/18/24	1
16:49	HS24041063-03	SAMP	ZZZZZZZZZZ	15.D	04/19/24	100000
17:38	14DX-CCV END	CCV	14DX-CCV END	17.D	04/18/24	1
18:14	HS24040667-03	SAMP	ZZZZZZZZZZ	19.D	04/18/24	1
18:31	HS24040816-04	SAMP	ZZZZZZZZZZ	20.D	04/18/24	1
18:49	HS24040816-05	SAMP	ZZZZZZZZZZ	21.D	04/18/24	1
19:06	HS24040816-06	SAMP	ZZZZZZZZZZ	22.D	04/18/24	1

SV06 -Logbook

Batch: 57986 **Analyst:** Marco Gutierrez

Date: 12-12-2023 **Reviewer:**

Method: R8270D SIM PAH ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	12-12-2023 11:21 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	12-12-2023 11:33 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHSIM-0.08	ICAL4	12-12-2023 01:20 pm	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	PAHSIM-0.01	ICAL1	12-12-2023 01:58 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	PAHSIM-0.03	ICAL2	12-12-2023 02:18 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	PAHSIM-0.05	ICAL3	12-12-2023 02:39 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	PAHSIM-0.10	ICAL5	12-12-2023 02:59 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	PAHSIM-0.15	ICAL6	12-12-2023 03:19 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	PAHSIM-0.20	ICAL7	12-12-2023 03:39 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	PAHSIM-0.50	ICAL8	12-12-2023 03:59 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	PAHSIM ICV-0.08	ICV	12-12-2023 04:19 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	MBLK-203997	MBLK	12-12-2023 04:40 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	LCS-203997	LCS	12-12-2023 05:00 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCSD-203997	LCSD	12-12-2023 05:20 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	MBLK-204560	MBLK	12-12-2023 05:40 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	LCS-204560	LCS	12-12-2023 06:00 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	LCSD-204560	LCSD	12-12-2023 06:21 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS23111571-03	SAMP	12-12-2023 06:41 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS23111573-03	SAMP	12-12-2023 07:01 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS23120311-02	SAMP	12-12-2023 07:21 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS23120401-02	SAMP	12-12-2023 07:41 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS23120401-03	SAMP	12-12-2023 08:01 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59732 **Analyst:** Marco Gutierrez

Date: 04-19-2024 **Reviewer:**

Method: R8270D 14dx/LVI **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-19-2024 11:36 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-19-2024 11:48 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHLVI-0.025	CCV	04-19-2024 12:37 pm	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	14DX-0.08	CCV	04-19-2024 12:57 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	SIM CCB	SAMP	04-19-2024 01:23 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	MBLK-210508	MBLK	04-19-2024 01:48 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	HS24040786-01	SAMP	04-19-2024 02:23 pm	10.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.08	SAMP	04-19-2024 02:46 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	SIM CCB	SAMP	04-19-2024 03:04 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24041063-01X10K	SAMP	04-19-2024 03:21 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS24041063-01X100K	SAMP	04-19-2024 03:39 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS24041063-02X10K	SAMP	04-19-2024 03:56 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS24041063-02X100K	SAMP	04-19-2024 04:14 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS24041063-03X10K	SAMP	04-19-2024 04:31 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS24041063-03X100K	SAMP	04-19-2024 04:49 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	MBLK-210609	SAMP	04-19-2024 05:06 pm	1.00	33.00 mL	2000.00 mL	16.D	Liquid	Y	NA
17	LCS-210609	SAMP	04-19-2024 05:26 pm	1.00	33.00 mL	2000.00 mL	17.D	Liquid	Y	NA
18	LCSD-210609	SAMP	04-19-2024 05:47 pm	1.00	33.00 mL	2000.00 mL	18.D	Liquid	Y	NA
19	HS24041092-17	SAMP	04-19-2024 06:07 pm	1.00	33.00 mL	2000.00 mL	19.D	Liquid	Y	NA
20	HS24041092-18	SAMP	04-19-2024 06:27 pm	1.00	33.00 mL	2000.00 mL	20.D	Liquid	Y	NA
21	HS24041092-19	SAMP	04-19-2024 06:47 pm	1.00	33.00 mL	2000.00 mL	21.D	Liquid	Y	NA
22	HS24041092-20	SAMP	04-19-2024 07:07 pm	1.00	33.00 mL	2000.00 mL	22.D	Liquid	Y	NA
23	HS24041092-21	SAMP	04-19-2024 07:28 pm	1.00	33.00 mL	2000.00 mL	23.D	Liquid	Y	NA
24	HS24041092-22	SAMP	04-19-2024 07:48 pm	1.00	33.00 mL	2000.00 mL	24.D	Liquid	Y	NA
25	HS24041092-23	SAMP	04-19-2024 08:08 pm	1.00	33.00 mL	2000.00 mL	25.D	Liquid	Y	NA
26	HS24041092-24	SAMP	04-19-2024 08:28 pm	1.00	33.00 mL	2000.00 mL	26.D	Liquid	Y	NA
27	HS24041092-26	SAMP	04-19-2024 09:09 pm	1.00	33.00 mL	2000.00 mL	28.D	Liquid	Y	NA
28	HS24041092-27	SAMP	04-19-2024 09:29 pm	1.00	33.00 mL	2000.00 mL	29.D	Liquid	Y	NA
29	HS24041092-28	SAMP	04-19-2024 09:49 pm	1.00	33.00 mL	2000.00 mL	30.D	Liquid	Y	NA
30	HS24041092-29	SAMP	04-19-2024 10:10 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
31	HS24041092-30	SAMP	04-19-2024 10:30 pm	1.00	33.00 mL	2000.00 mL	32.D	Liquid	Y	NA

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RawData

<textMethods>

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\01.D Page 1
Report Date: 12-Dec-2023 13:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 12-DEC-2023 11:21
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.170	5.571	-0.401	198	128535			0.00- 100.00	77.19
5.170	6.357	-1.187	51	37227			10.00- 80.00	28.96
5.170	6.357	-1.187	68	695			0.00- 2.00	1.72
5.170	6.357	-1.187	69	40344			0.00- 0.00	31.39
5.170	6.357	-1.187	70	154			0.00- 2.00	0.38
5.170	6.357	-1.187	127	51808			10.00- 80.00	40.31
5.170	6.357	-1.187	197	348			0.00- 2.00	0.27
5.170	6.357	-1.187	199	8926			5.00- 9.00	6.94
5.170	6.357	-1.187	275	38772			10.00- 60.00	30.16
5.170	6.357	-1.187	365	5421			1.00- 100.00	4.22
5.170	6.357	-1.187	441	24928			0.01- 99.99	75.16
5.170	6.357	-1.187	442	166528			50.00- 150.00	129.56
5.170	6.357	-1.187	443	33168			15.00- 24.00	19.92

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	28.96
68	Less than 2.00% of mass 69	0.54 (1.72)
69	Mass 69 relative abundance	31.39
70	Less than 2.00% of mass 69	0.12 (0.38)
127	10.00 - 80.00% of mass 198	40.31
197	Less than 2.00% of mass 198	0.27
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 60.00% of mass 198	30.16
365	1.00 - 100.00% of mass 198	4.22
441	Present, but less than mass 443	19.39
442	50.00 - 150.00% of mass 198	129.56
443	15.00 - 24.00% of mass 442	25.80 (19.92)

Data File: 01.D
Spectrum: Avg. Scans 482-484 (5.17), Background Scan 478 (SUB)
Location of Maximum: 442.00
Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	120	131.00	305	202.00	53	289.00	125
38.00	426	132.00	120	203.00	985	290.00	64
39.00	2383	134.00	625	204.00	4915	292.00	140
40.00	246	135.00	1577	205.00	8319	293.00	720
50.00	9499	136.00	610	206.00	33976	294.00	158
51.00	37224	137.00	858	207.00	4480	295.00	125
52.00	1897	138.00	157	208.00	1093	296.00	10449
55.00	62	140.00	254	209.00	412	297.00	1409
56.00	1247	141.00	2570	210.00	363	298.00	63
57.00	2784	142.00	909	211.00	1498	301.00	82
58.00	74	143.00	574	212.00	85	302.00	196
61.00	537	144.00	126	215.00	321	303.00	1405
62.00	646	145.00	95	216.00	791	304.00	329
63.00	1641	146.00	478	217.00	9198	308.00	133
64.00	214	147.00	1317	218.00	1108	310.00	217
65.00	840	148.00	3035	219.00	57	313.00	53
68.00	695	149.00	599	221.00	6585	314.00	547
69.00	40344	150.00	57	222.00	1507	315.00	1229
70.00	154	151.00	417	223.00	2225	316.00	610
73.00	313	152.00	159	224.00	19944	317.00	134
74.00	4016	153.00	830	225.00	5040	321.00	402
75.00	6436	154.00	618	226.00	543	322.00	204
76.00	2072	155.00	1506	227.00	8255	323.00	3909
77.00	42464	156.00	2234	228.00	1109	324.00	706
78.00	2822	157.00	458	229.00	1791	327.00	708
79.00	2978	158.00	496	230.00	230	328.00	314
80.00	2258	159.00	473	231.00	734	332.00	297
81.00	3199	160.00	828	232.00	50	333.00	322
82.00	812	161.00	1322	233.00	72	334.00	2484
83.00	675	162.00	355	234.00	604	335.00	620
85.00	598	163.00	70	235.00	542	341.00	526
86.00	801	164.00	101	236.00	358	342.00	55
87.00	397	165.00	967	237.00	582	346.00	737
88.00	136	166.00	946	239.00	350	352.00	1248
91.00	773	167.00	5186	240.00	231	353.00	849
92.00	861	168.00	2322	241.00	507	354.00	1060
93.00	5248	169.00	471	242.00	1123	355.00	192
94.00	361	170.00	133	243.00	1132	359.00	56
95.00	54	171.00	223	244.00	15164	365.00	5421
96.00	228	172.00	470	245.00	2256	366.00	764
97.00	52	173.00	703	246.00	3307	370.00	119
98.00	3962	174.00	1236	247.00	625	371.00	325
99.00	2961	175.00	2246	248.00	133	372.00	2055
100.00	271	176.00	575	249.00	567	373.00	495
101.00	1947	177.00	1080	250.00	55	383.00	527

103.00 636	178.00 385	251.00 136	384.00 143
104.00 1064	179.00 4595	252.00 178	390.00 239
105.00 1247	180.00 3087	253.00 461	391.00 140
106.00 401	181.00 1432	255.00 85760	392.00 131
107.00 14345	182.00 270	256.00 12142	401.00 63
108.00 2330	183.00 60	257.00 889	402.00 854
109.00 516	184.00 317	258.00 4906	403.00 1317
110.00 25816	185.00 2202	259.00 728	404.00 313
111.00 4036	186.00 17000	261.00 69	421.00 1244
112.00 455	187.00 5193	264.00 56	422.00 1147
113.00 111	188.00 489	265.00 1978	423.00 8217
116.00 912	189.00 1170	266.00 301	424.00 1901
117.00 11193	190.00 241	270.00 107	425.00 139
118.00 845	191.00 469	271.00 147	436.00 113
120.00 146	192.00 1363	272.00 196	437.00 291
122.00 898	193.00 1695	273.00 2634	438.00 302
123.00 1495	194.00 304	274.00 6853	439.00 629
124.00 742	195.00 203	275.00 38768	441.00 24928
125.00 670	196.00 3622	276.00 5170	442.00 166528
126.00 113	197.00 348	277.00 2991	443.00 33168
127.00 51808	198.00 128528	278.00 541	444.00 3168
128.00 3942	199.00 8926	283.00 341	445.00 140
129.00 20680	200.00 723	284.00 266	
130.00 1716	201.00 652	285.00 538	

Data File: \\NAHSTWS005\Target\chem\sv6.i\231212.b\01.d Page 1

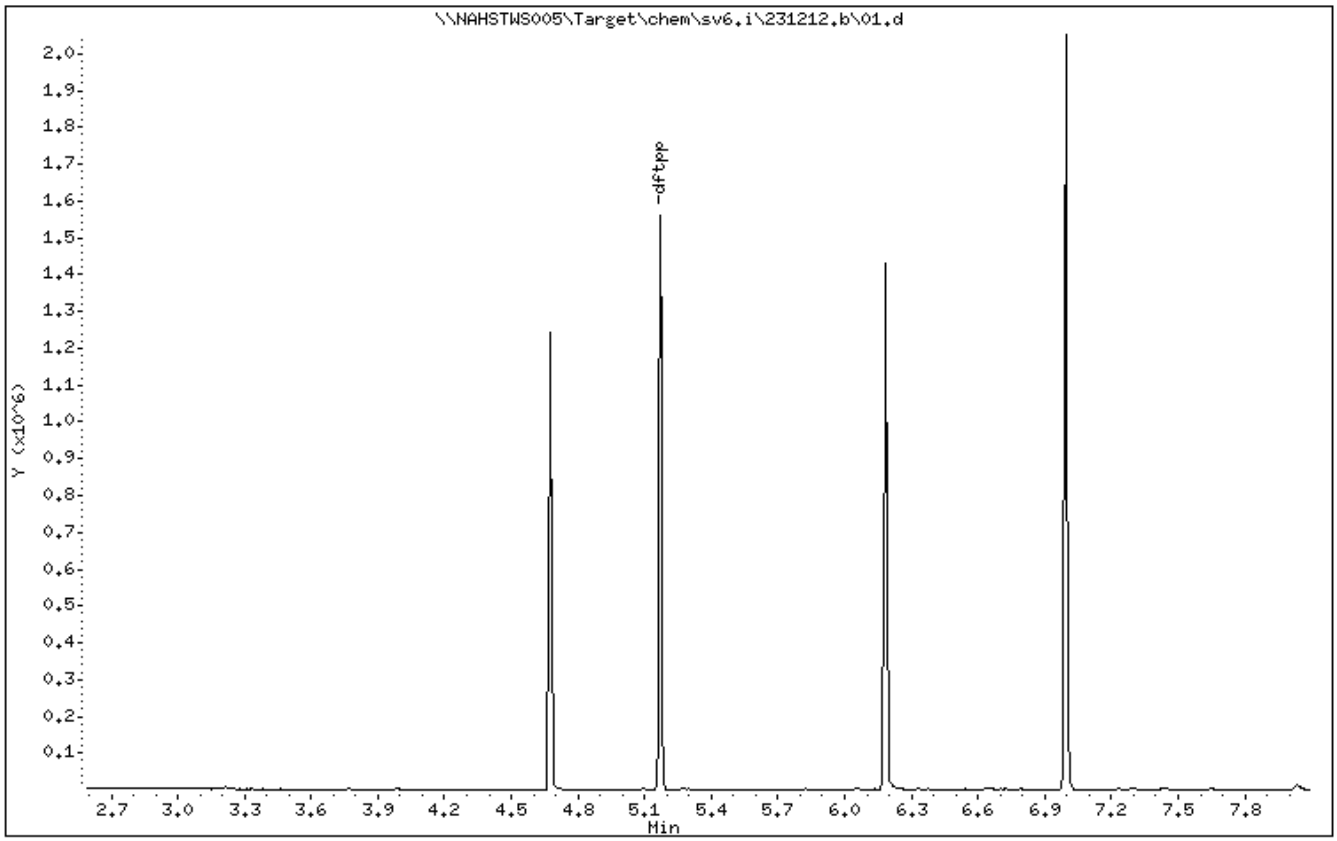
Date : 12-DEC-2023 11:21

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



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Inj Date : 12-DEC-2023 11:21
InstruID : SV6.i
LabSampID : DFTPP

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Lab Smp Id: PAHSIM-0.08 Client Smp ID: PAHSIM-0.08
Inj Date : 12-DEC-2023 13:20
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.386	4.386	(1.000)	28457	0.10000	
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.854)	6262	0.08000	0.07980(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	17141	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	21658	0.08000	0.07934
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	35822	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	37227	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.078	9.078	(0.887)	29385	0.08000	0.07773
* 198 Perylene-d12	264	12.216	12.216	(1.000)	37882	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.005)	24191	0.08000	0.07748
61 2-Methylnaphthalene	142	5.053	5.053	(1.152)	16443	0.08000	0.07875
62 1-Methylnaphthalene	142	5.145	5.145	(1.173)	15196	0.08000	0.07800
83 Acenaphthylene	152	5.910	5.910	(0.976)	25076	0.08000	0.08001
88 Acenaphthene	154	6.080	6.080	(1.004)	15400	0.08000	0.07793
98 Fluorene	166	6.583	6.583	(1.087)	19249	0.08000	0.07923
92 Dibenzofuran	168	6.711	6.711	(1.108)	10259	0.08000	0.08007(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	30497	0.08000	0.07778
130 Anthracene	178	7.568	7.568	(1.009)	29677	0.08000	0.07595
149 Fluoranthene	202	8.676	8.676	(1.157)	37958	0.08000	0.08139
155 Pyrene	202	8.895	8.895	(0.869)	40356	0.08000	0.07456

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	38677	0.08000	0.07662
183 Chrysene	228	10.269	10.269 (1.003)	40103	0.08000	0.07127(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.956)	37337	0.08000	0.07940
195 Benzo(k)fluoranthene	252	11.710	11.710	(0.959)	42990	0.08000	0.07555(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	34743	0.08000	0.07623(MH)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	41965	0.08000	0.07694(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.129)	34155	0.08000	0.07540(M)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	35700	0.08000	0.07329(M)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D

Date : 12-DEC-2023 13:20

Client ID: PAHSIM-0.08

Instrument: SV6.i

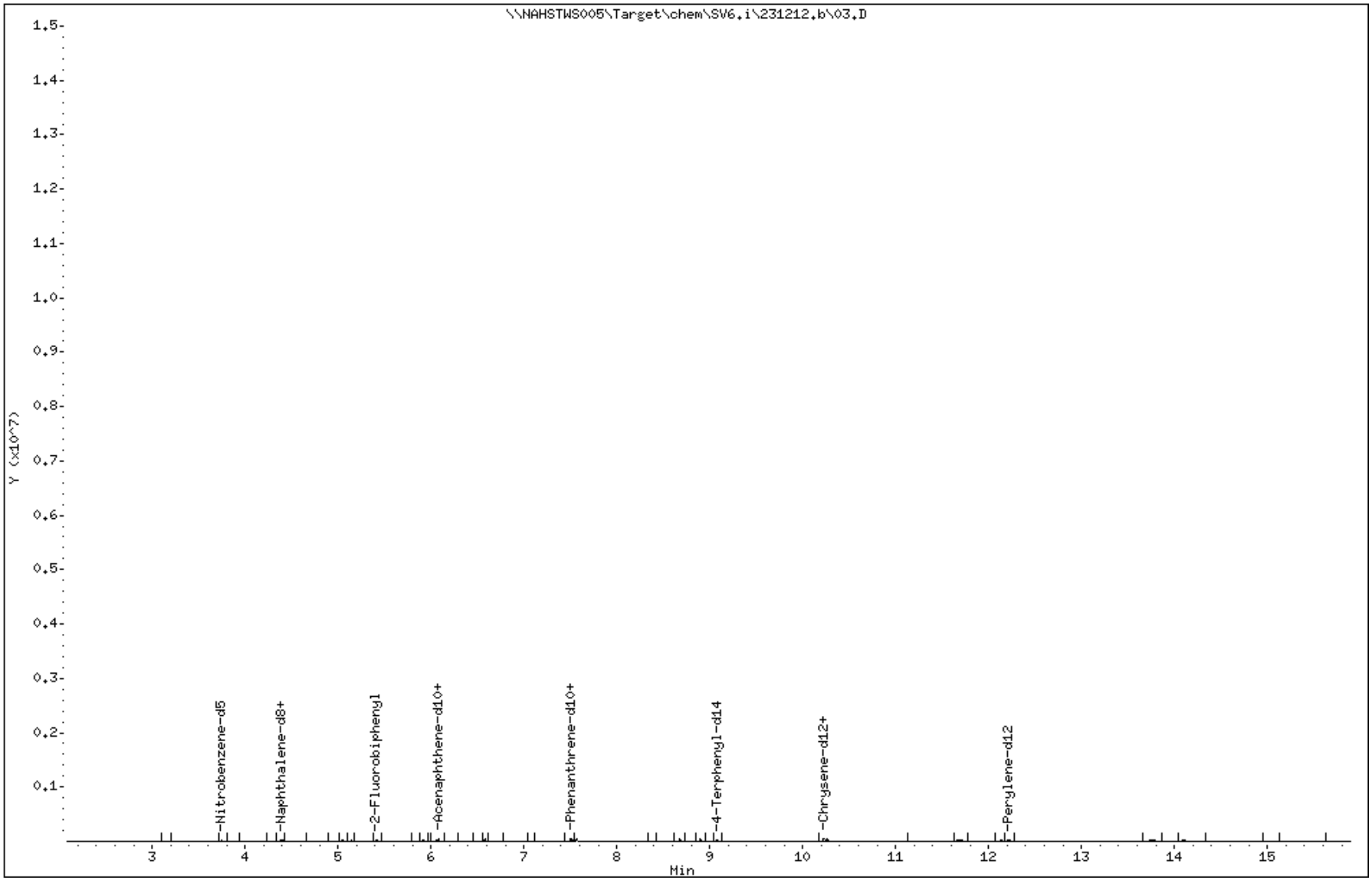
Sample Info: PAHSIM-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



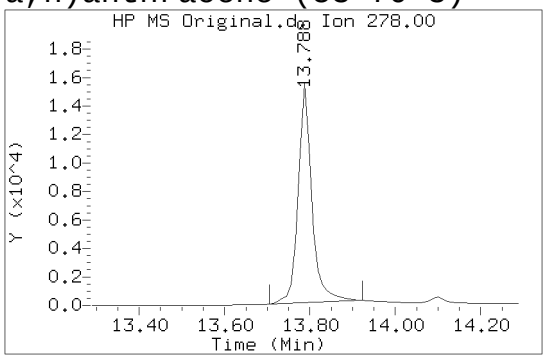
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

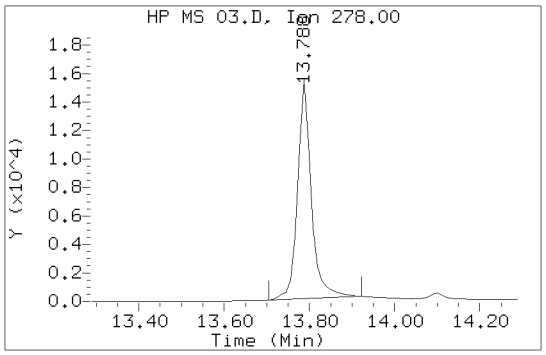
BEFORE

MASS
278
AREA
34155
HEIGHT
15388
18-Dec-2023
10:16
linh
pham



AFTER

MASS
278
AREA
34155
HEIGHT
15388
18-Dec-2023
10:16
linh
pham



BEFORE

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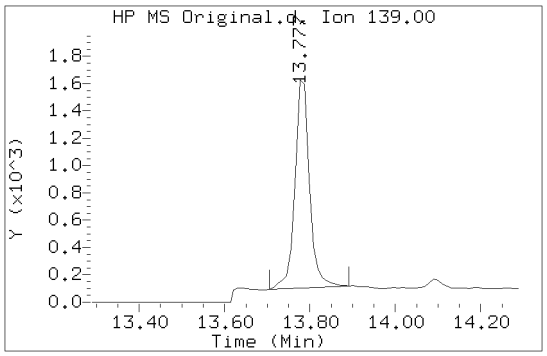
AREA
3617
HEIGHT
1525
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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18-Dec-2023
10:16
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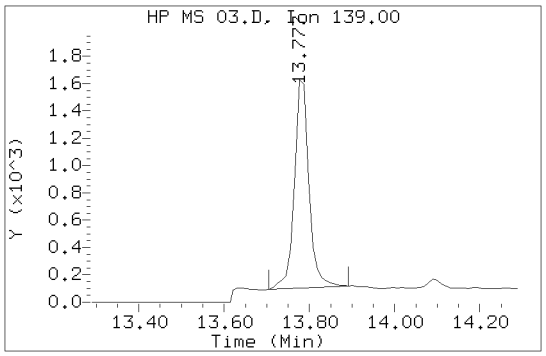
pham



BEFORE

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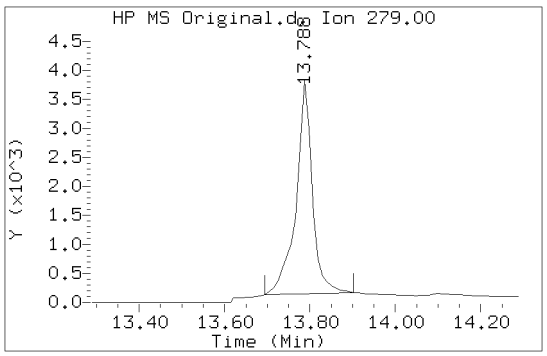
AREA
9681
HEIGHT
3674
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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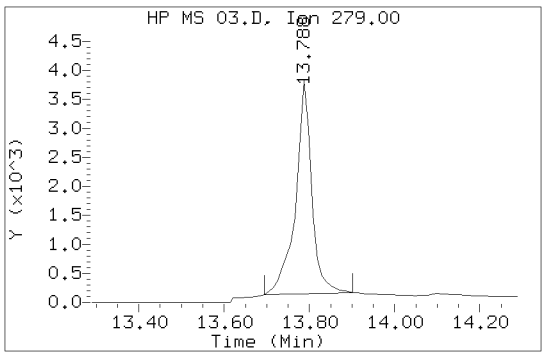
AREA
9681
HEIGHT
3674
18-Dec-2023
10:16
linh
pham



Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

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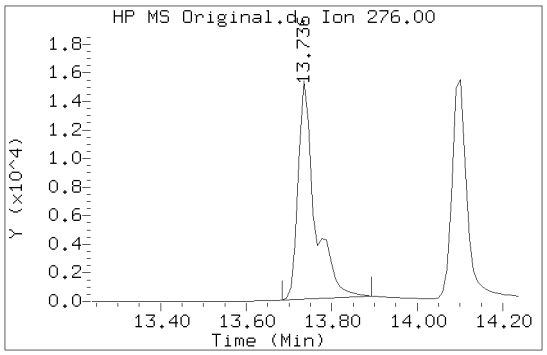
41965
HEIGHT
15275
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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18-Dec-2023
10:16
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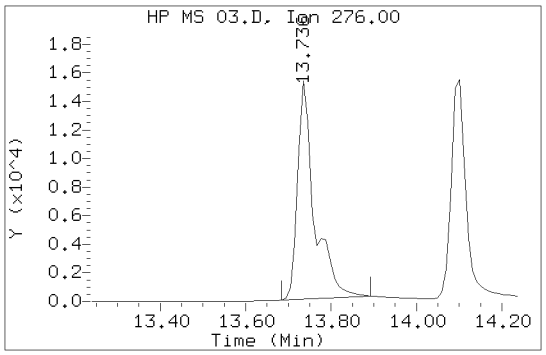
pham



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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

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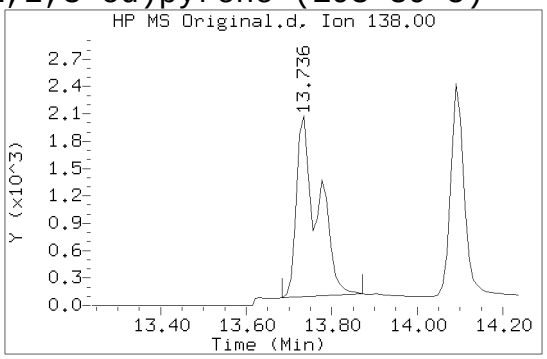
AREA
6883
HEIGHT
1984
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
6883
HEIGHT
1984
18-Dec-2023
10:16
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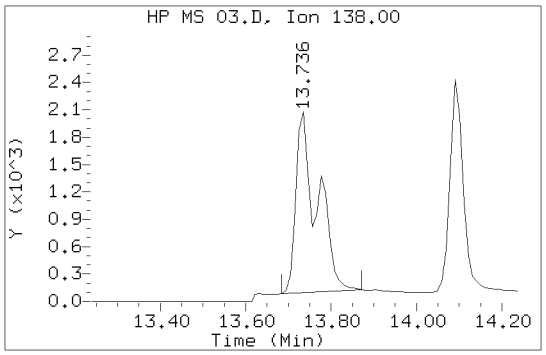
pham



BEFORE

MASS
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AREA
10813
HEIGHT
3606
18-Dec-2023
10:16
linh
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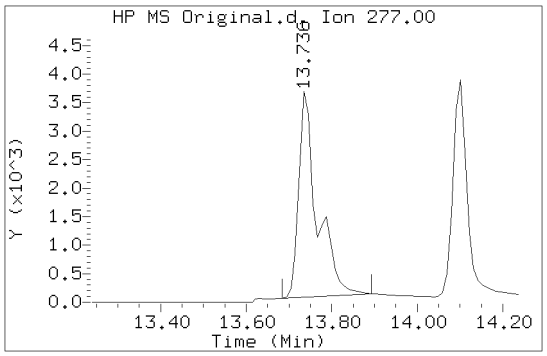
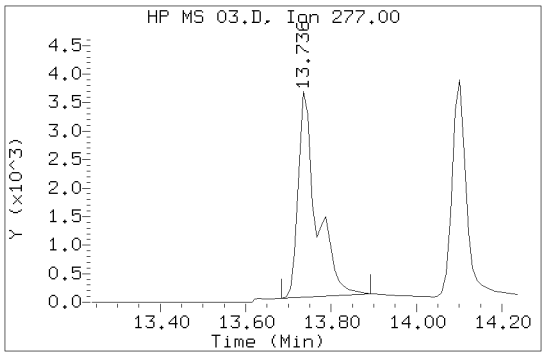


AFTER

MASS
277
AREA
10813
HEIGHT
3606
18-Dec-2023
10:16
linh
pham



Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

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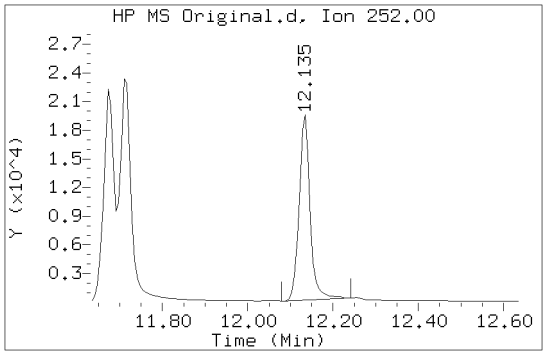
AREA
34743
HEIGHT
19382
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
34743
HEIGHT
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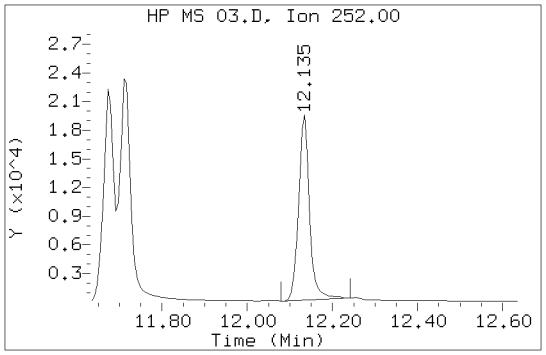
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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AREA
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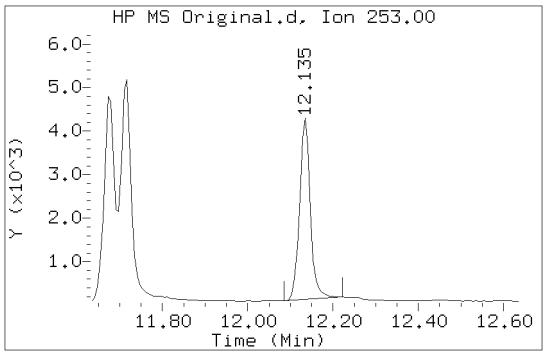
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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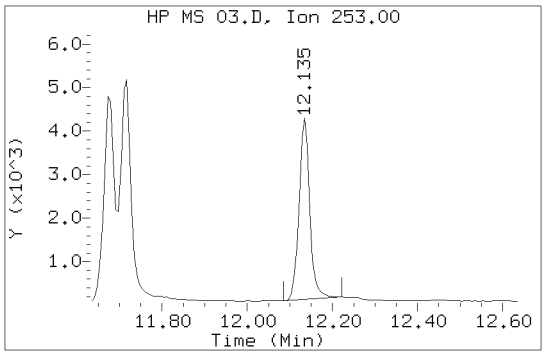
AREA
7393
HEIGHT
4171
18-Dec-2023
10:16
linh
pham



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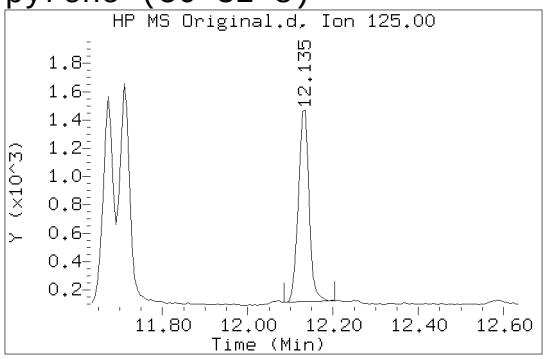
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
125
AREA
2420
HEIGHT
1355
18-Dec-2023
10:16
linh
pham



AFTER

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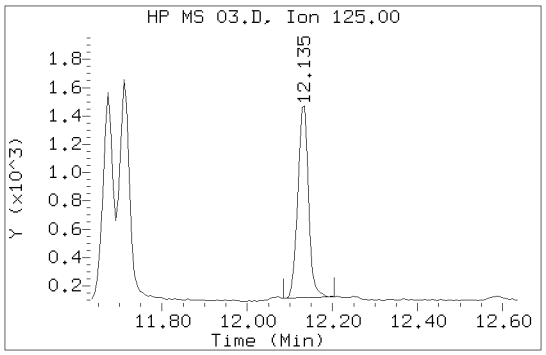
HEIGHT
1355
18-Dec-2023
10:16
linh
pham

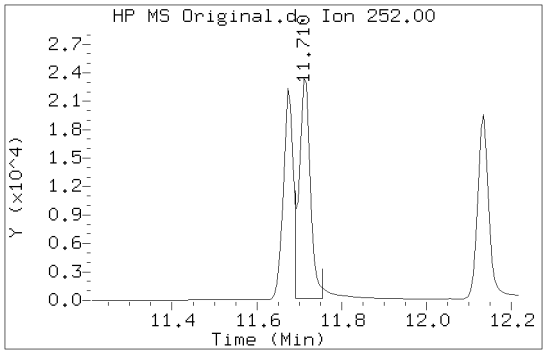


Benzo(k)fluoranthene (207-08-9)

Reason Code:

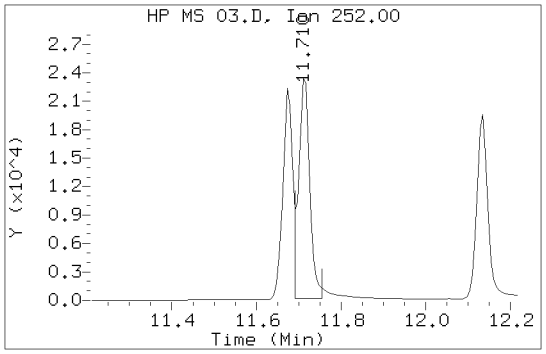
BEFORE

MASS
252
AREA
42990
HEIGHT
23172
18-Dec-2023
10:16
linh
pham



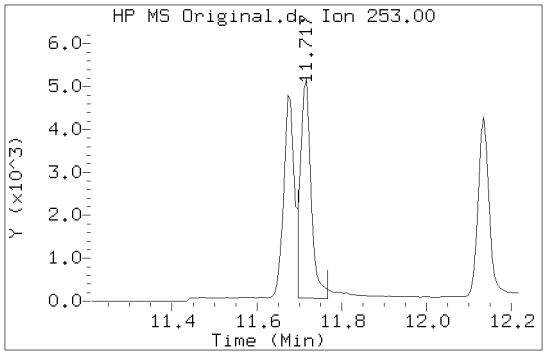
AFTER

MASS
252
AREA
42990
HEIGHT
23172
18-Dec-2023
10:16
linh
pham



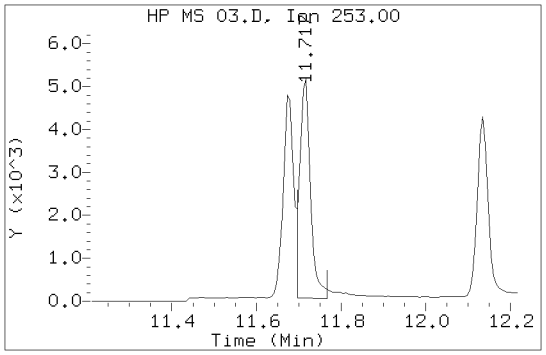
BEFORE

MASS
253
AREA
8948
HEIGHT
5105
18-Dec-2023
10:16
linh
pham



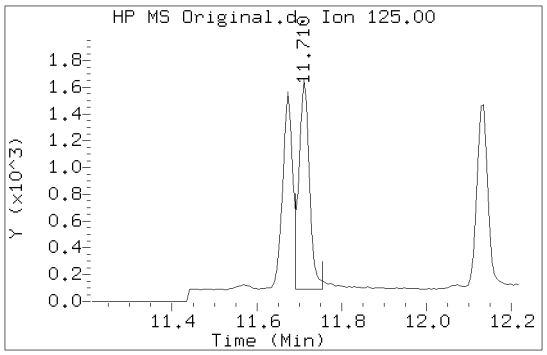
AFTER

MASS
253
AREA
8948
HEIGHT
5105
18-Dec-2023
10:16
linh
pham



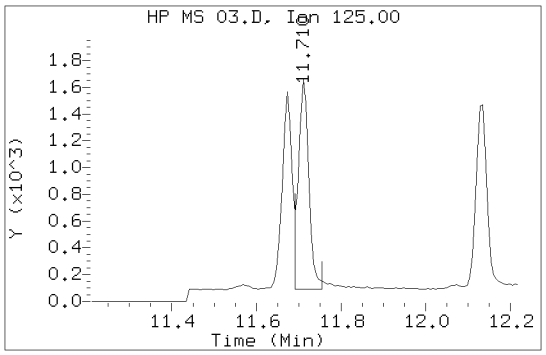
BEFORE

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham



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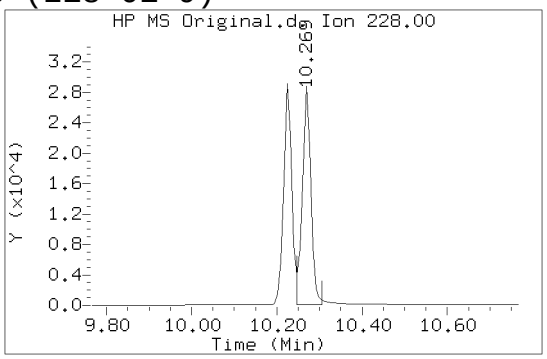
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene (218-01-9)

Reason Code:

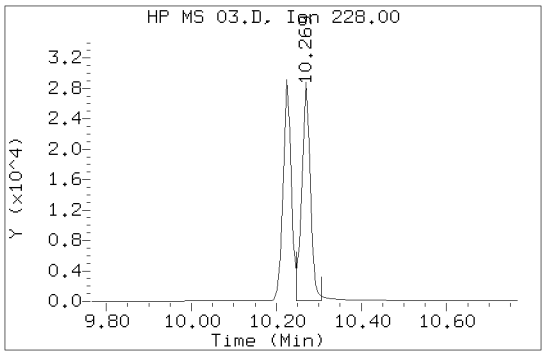
BEFORE

MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



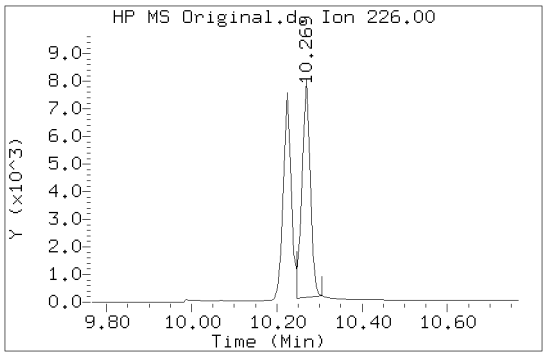
AFTER

MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



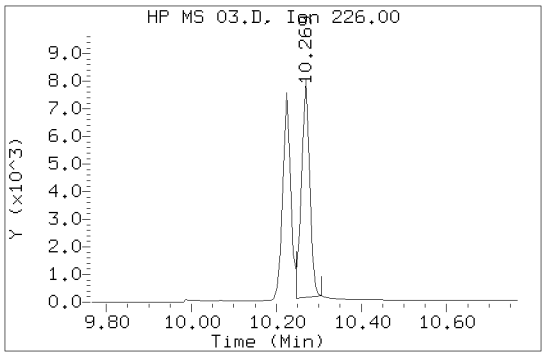
BEFORE

MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



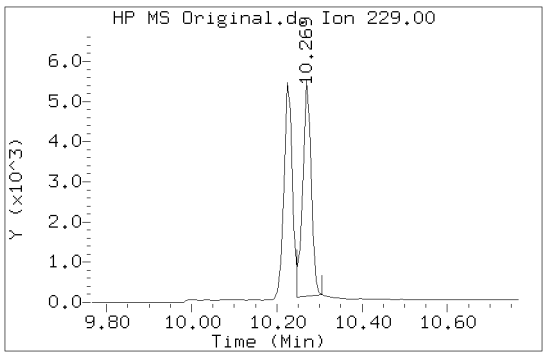
AFTER

MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



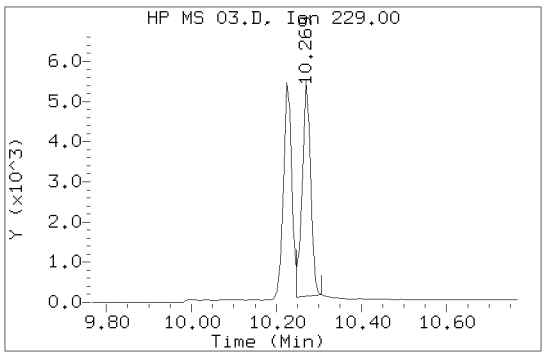
BEFORE

MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham

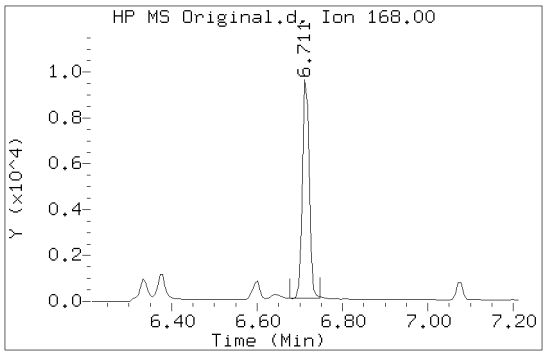


Dibenzofuran (132-64-9)

Reason Code:

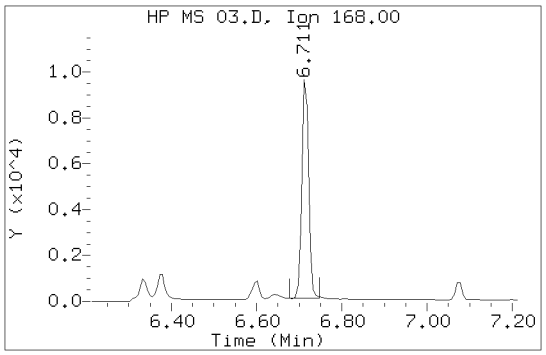
BEFORE

MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



AFTER

MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



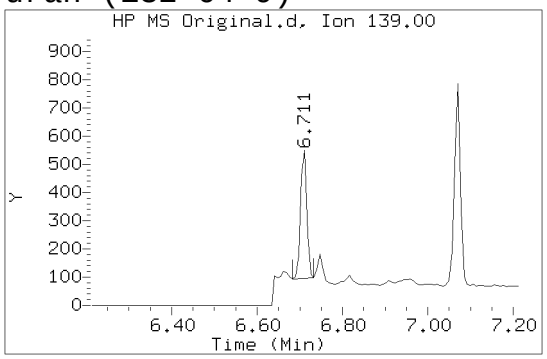
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzofuran (132-64-9)

Reason Code:

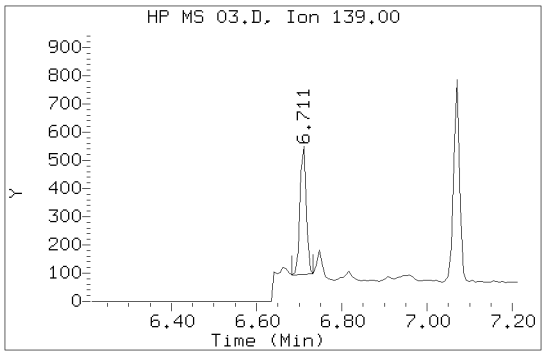
BEFORE

MASS
139
AREA
454
HEIGHT
454
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
454
HEIGHT
454
18-Dec-2023
10:16
linh
pham

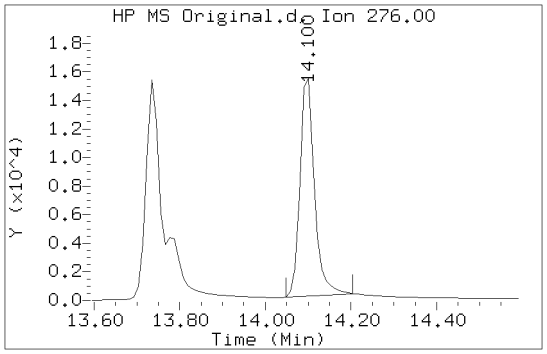


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

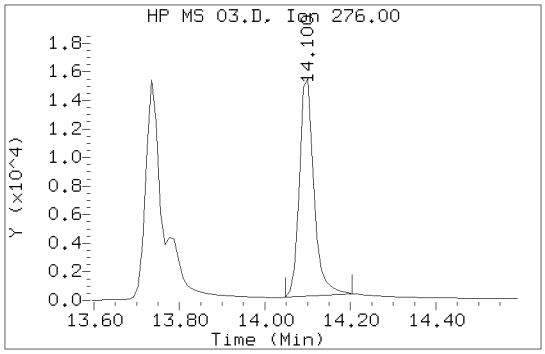
BEFORE

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



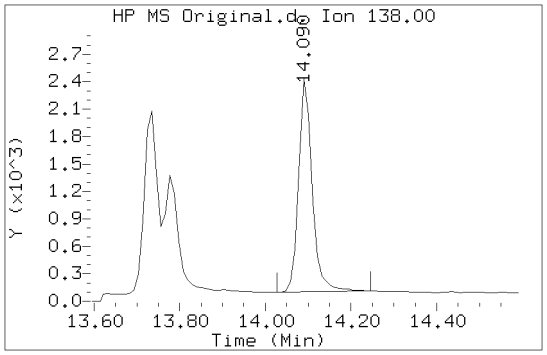
AFTER

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



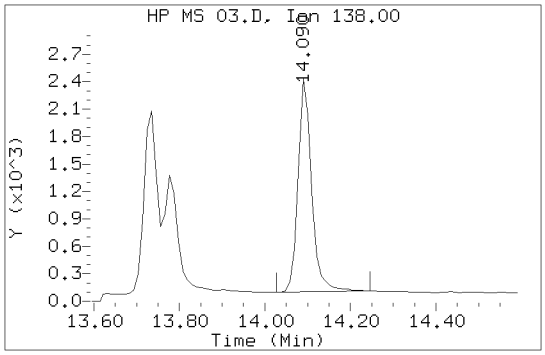
BEFORE

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



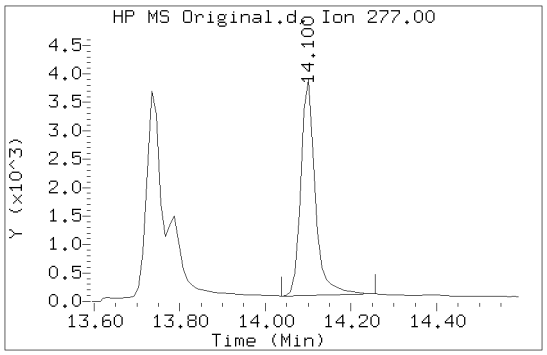
AFTER

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



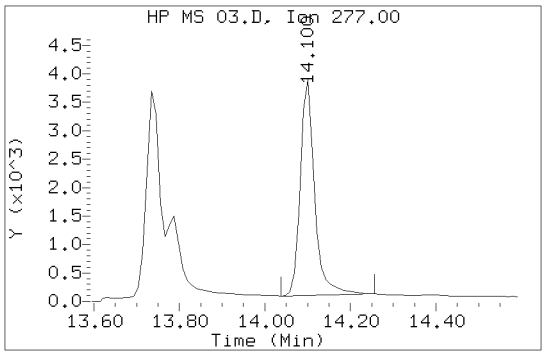
BEFORE

MASS
277
AREA
8789
HEIGHT
3792
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
8789
HEIGHT
3792
18-Dec-2023
10:16
linh
pham



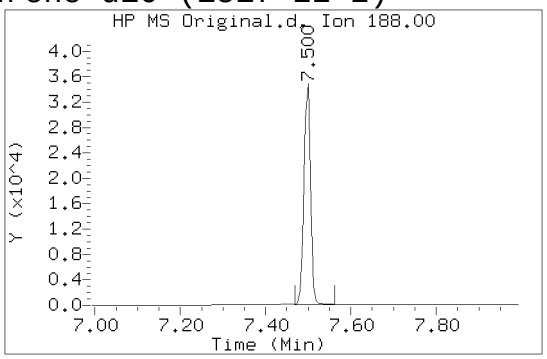
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

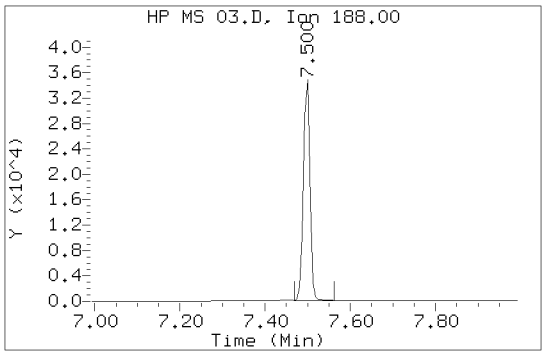
BEFORE

MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



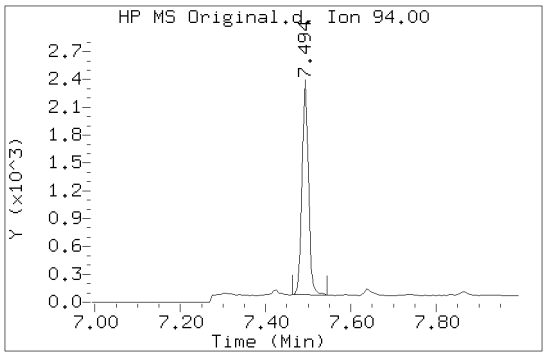
AFTER

MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



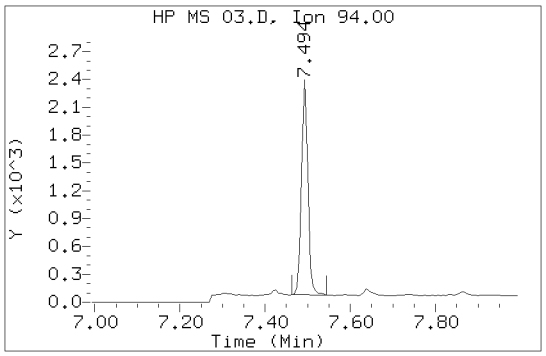
BEFORE

MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



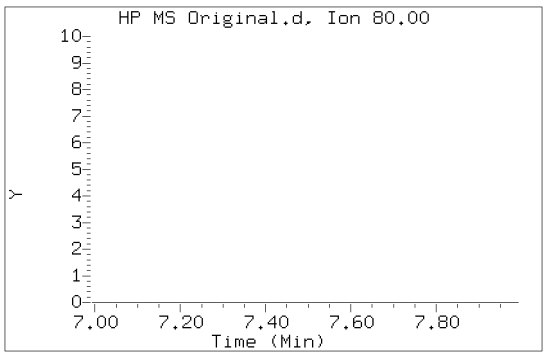
AFTER

MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



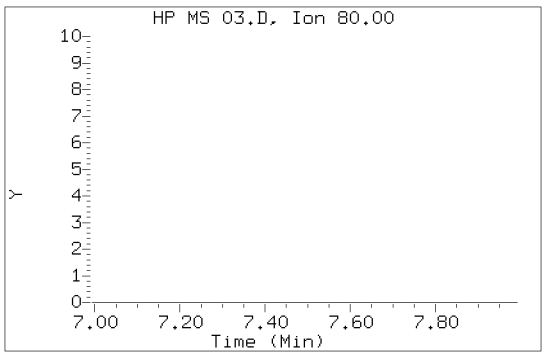
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

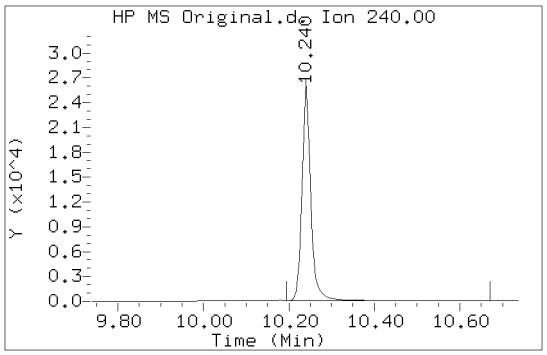


Chrysene-d12 (1719-03-5)

Reason Code:

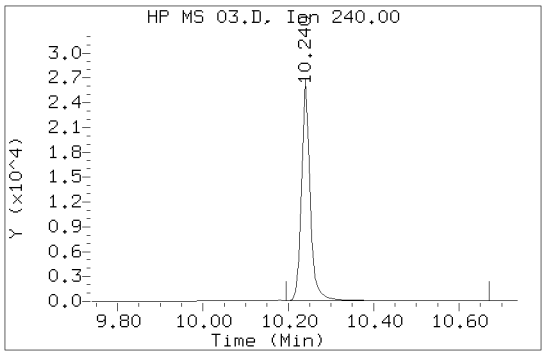
BEFORE

MASS
240
AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



AFTER

MASS
240
AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



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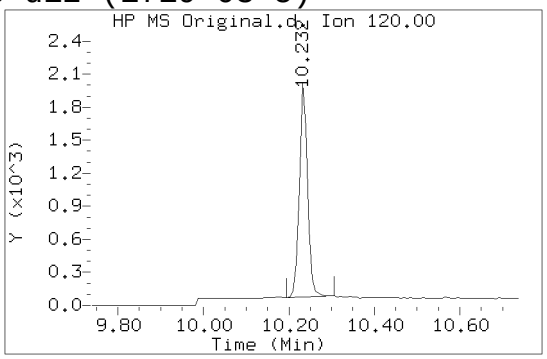
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

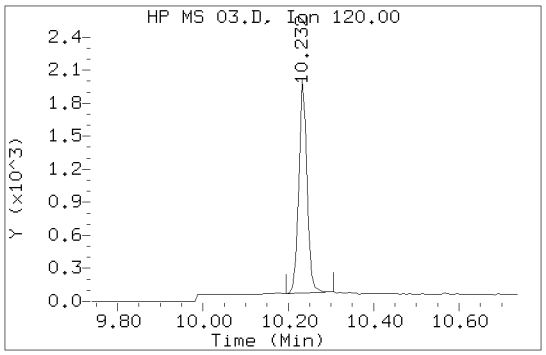
BEFORE

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



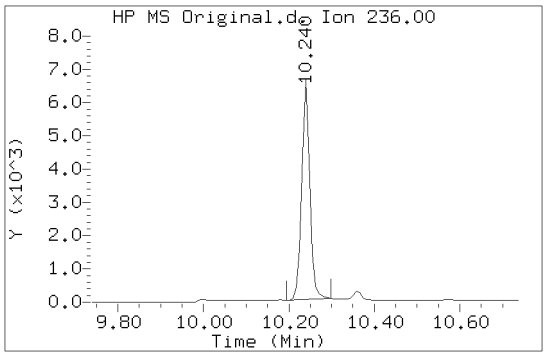
AFTER

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



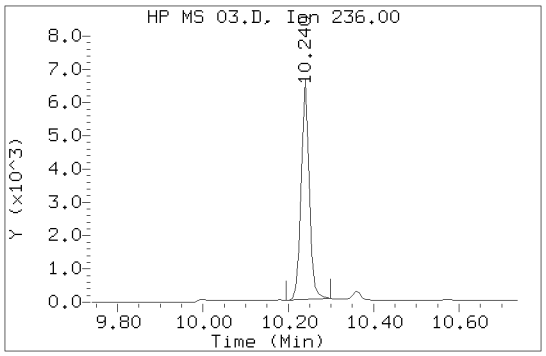
BEFORE

MASS
236
AREA
8536
HEIGHT
6599
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
8536
HEIGHT
6599
18-Dec-2023
10:16
linh
pham

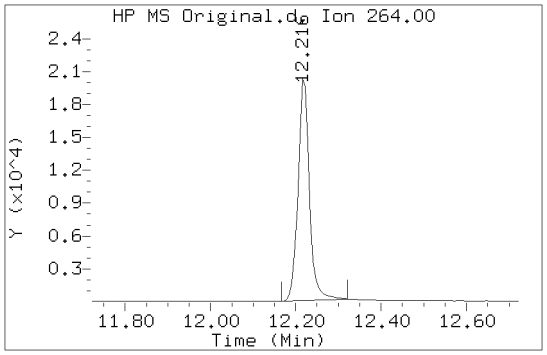


Perylene-d12 (1520-96-3)

Reason Code:

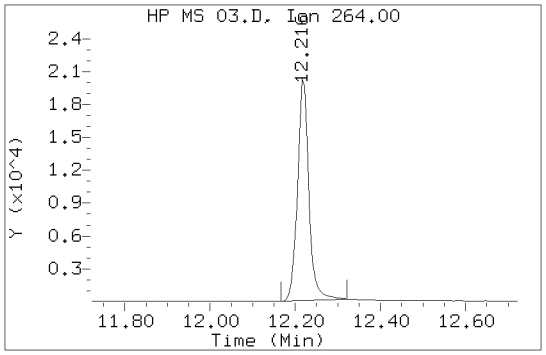
BEFORE

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



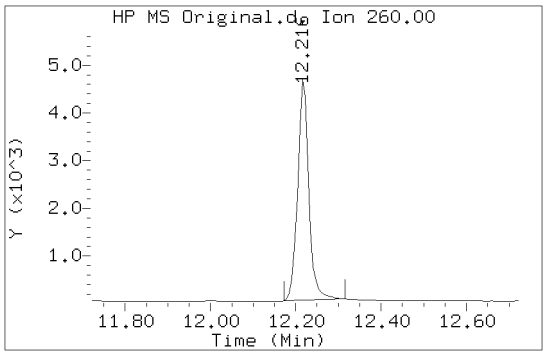
AFTER

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



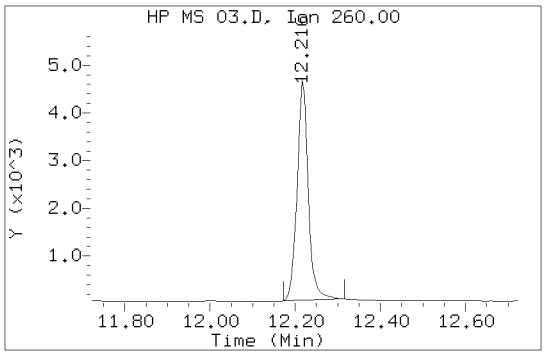
BEFORE

MASS
260
AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



AFTER

MASS
260
AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



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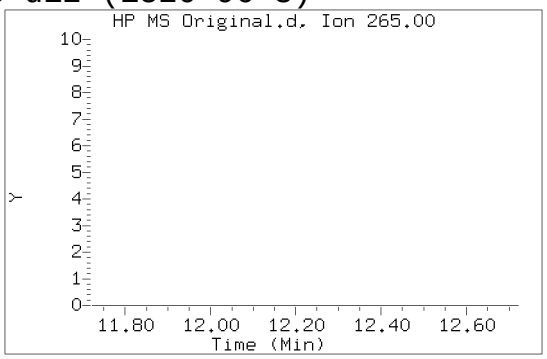
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Perylene-d12 (1520-96-3)

Reason Code:

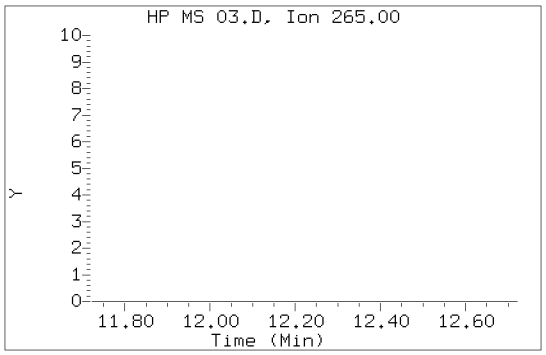
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

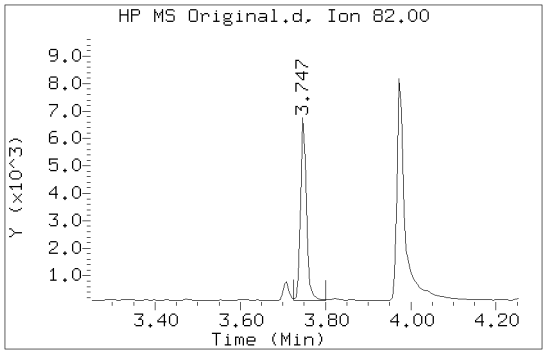


Nitrobenzene-d5 (4165-60-0)

Reason Code:

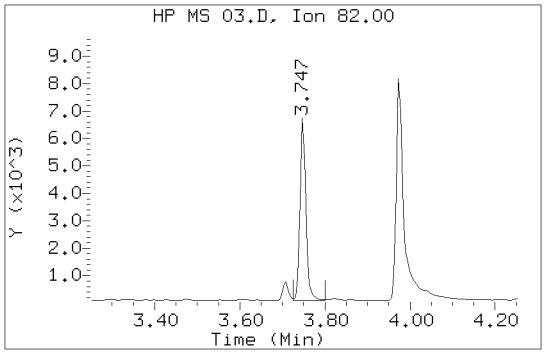
BEFORE

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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10:16
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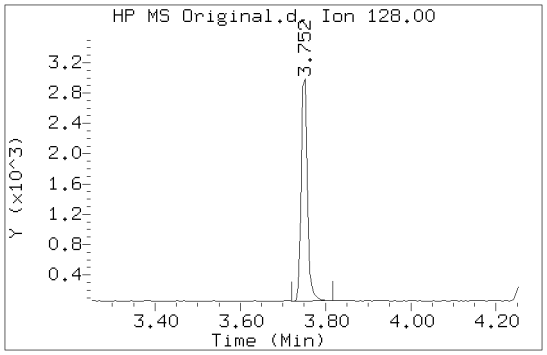

AFTER

MASS
128
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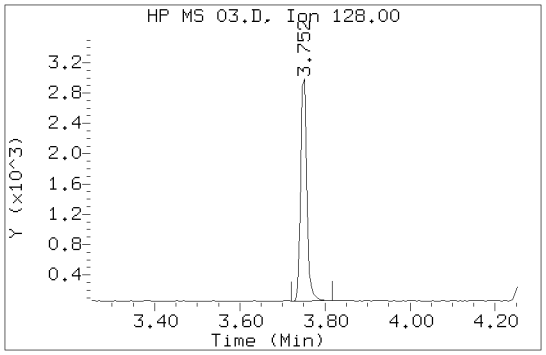
2926
18-Dec-2023
10:16
linh
pham



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10:16
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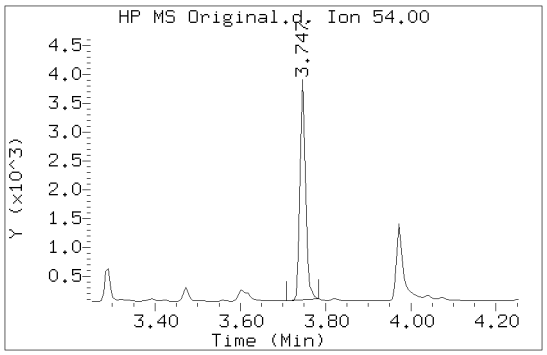
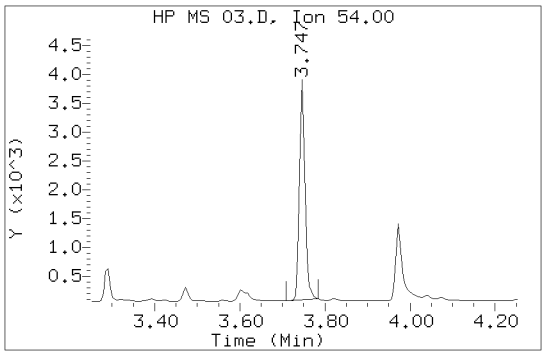


AFTER

MASS
54
AREA
3459
HEIGHT
3815
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
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Inj Date : 12-DEC-2023 13:58
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 13:20 Cal File: 03.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	22175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.853)	588	0.01000	0.009616(M)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	13618	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	2011	0.01000	0.009273(M)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	28419	0.10000	(M)
* 182 Chrysene-d12	240	10.243	10.243	(1.000)	26412	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.892)	3044	0.01000	0.01135(Q)
* 198 Perylene-d12	264	12.224	12.224	(1.000)	28037	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	2342	0.01000	0.009626(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	1471	0.01000	0.009041(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	1404	0.01000	0.009248(M)
83 Acenaphthylene	152	5.915	5.915	(0.977)	2247	0.01000	0.009024(M)
88 Acenaphthene	154	6.086	6.086	(1.005)	1535	0.01000	0.009777(M)
98 Fluorene	166	6.587	6.587	(1.088)	1791	0.01000	0.009279(M)
92 Dibenzofuran	168	6.716	6.716	(1.109)	961	0.01000	0.009441(M)
128 Phenanthrene	178	7.516	7.516	(1.002)	3022	0.01000	0.009715(M)
130 Anthracene	178	7.566	7.566	(1.009)	2993	0.01000	0.009656(M)
149 Fluoranthene	202	8.681	8.681	(1.158)	3567	0.01000	0.009641(M)
155 Pyrene	202	8.900	8.900	(0.869)	3927	0.01000	0.01023(M)

181 Benzo(a)Anthracene	228	10.228	10.228 (1.005)	3679	0.01000	0.01027
183 Chrysene	228	10.272	10.272 (1.009)	4081	0.01000	0.01022

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.955)	3363	0.01000	0.009663(M)
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.958)	4159	0.01000	0.009876(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	3316	0.01000	0.009831(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	4117	0.01000	0.01020(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.128)	3270	0.01000	0.009753(M)
212 Benzo(g,h,i)perylene	276	14.102	14.102	(1.154)	3852	0.01000	0.01068(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D

Date : 12-DEC-2023 13:58

Client ID: PAHSIM-0.010

Instrument: SV6.i

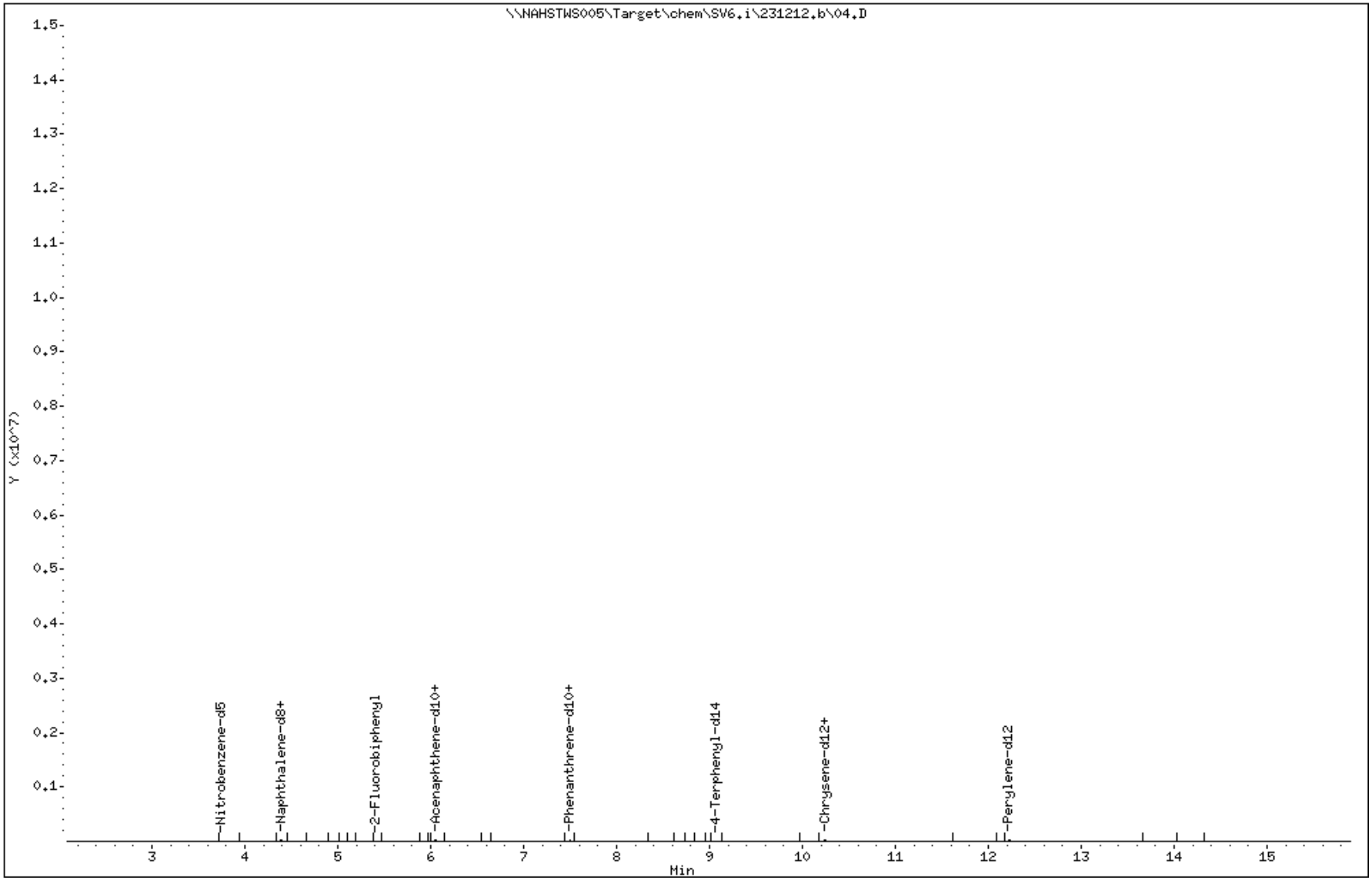
Sample Info: PAHSIM-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE

MASS
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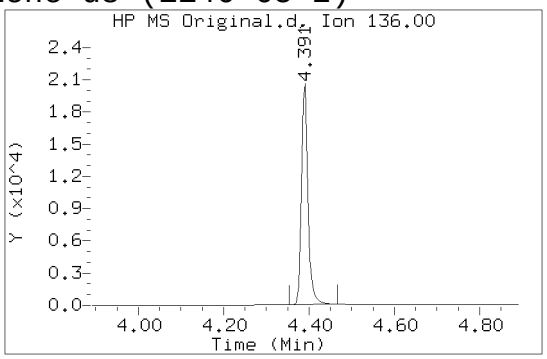
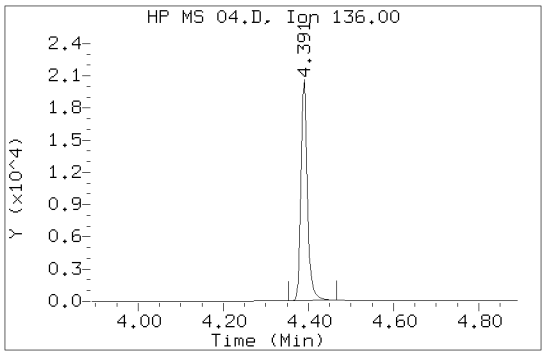
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



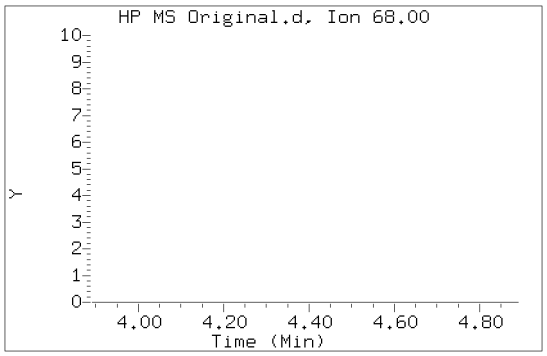
AFTER

MASS
136
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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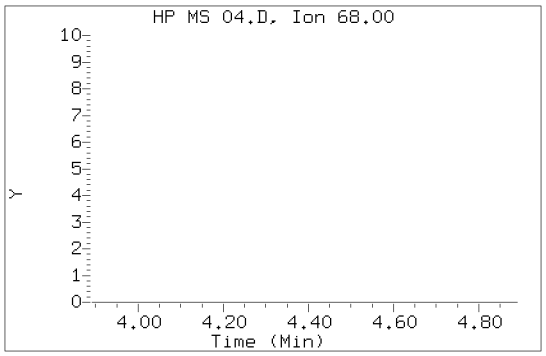
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

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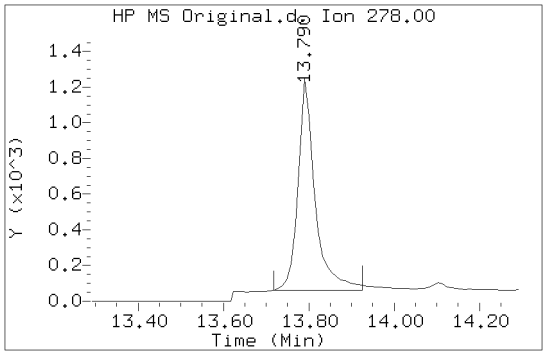
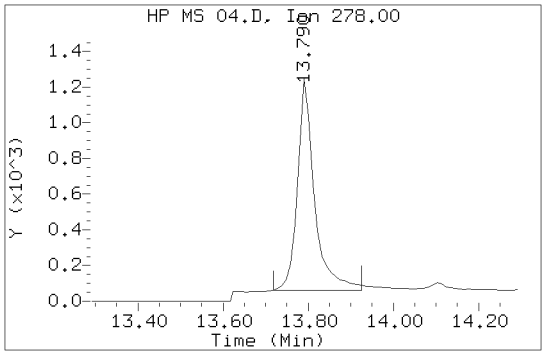
278
AREA
3270
HEIGHT
1184
18-Dec-2023
10:16
linh
pham



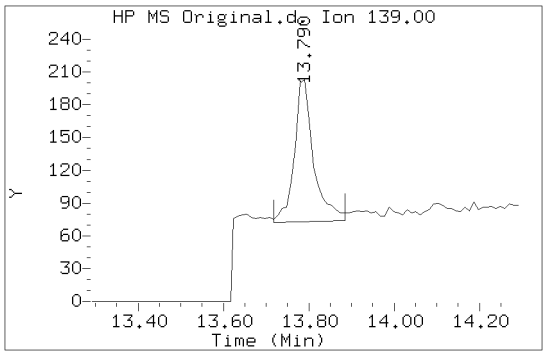
AFTER

MASS
278
AREA
3270
HEIGHT
1184
18-Dec-2023
10:16
linh
pham



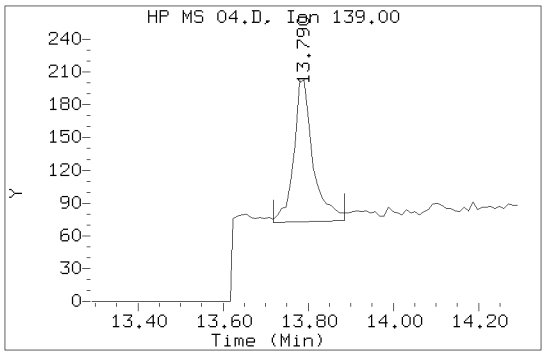
BEFORE

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



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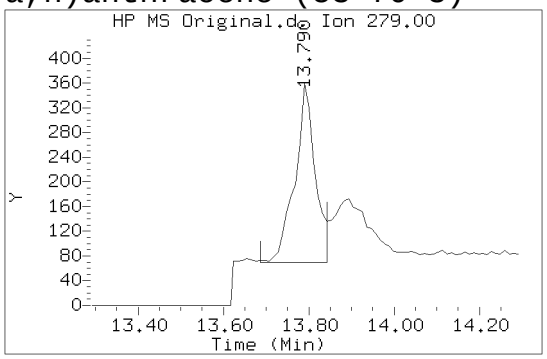
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
279
AREA
960
HEIGHT
289
18-Dec-2023
10:16
linh
pham



AFTER

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AREA
960
HEIGHT
289
18-Dec-2023
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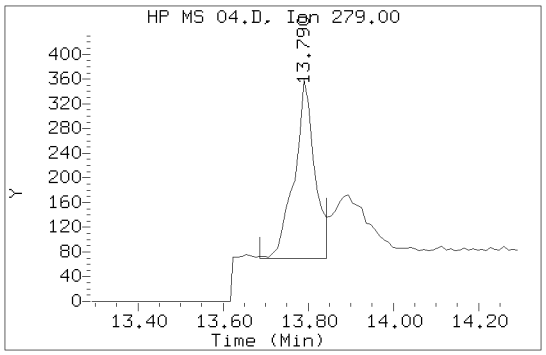
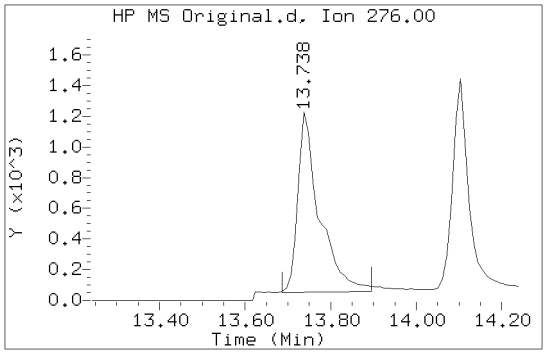


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

MASS
276
AREA
4117
HEIGHT
1177
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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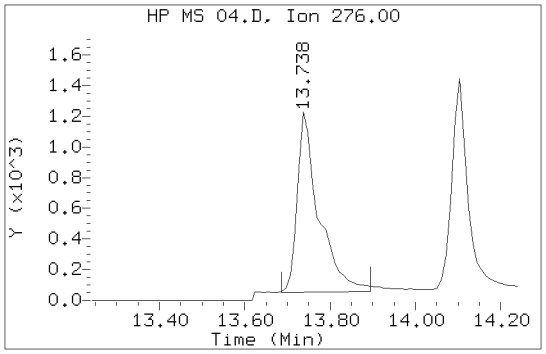
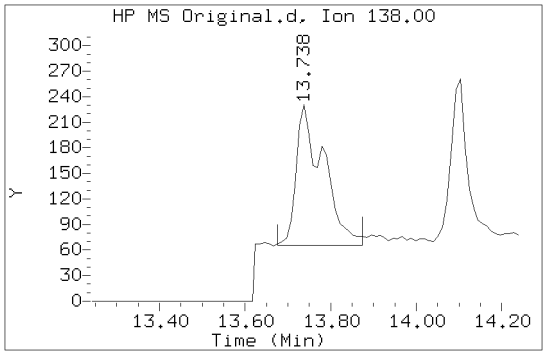
HEIGHT
1177
18-Dec-2023
10:16
linh
pham



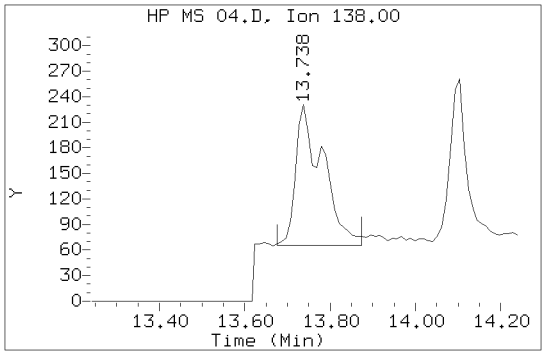
BEFORE

MASS
138
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



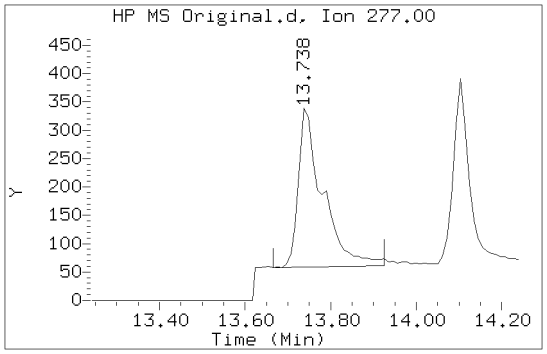
AFTER

MASS
138
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



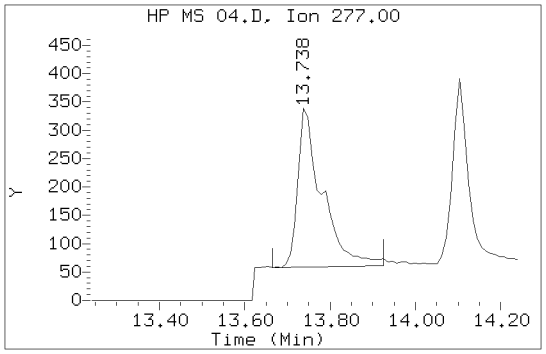
BEFORE

MASS
277
AREA
1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



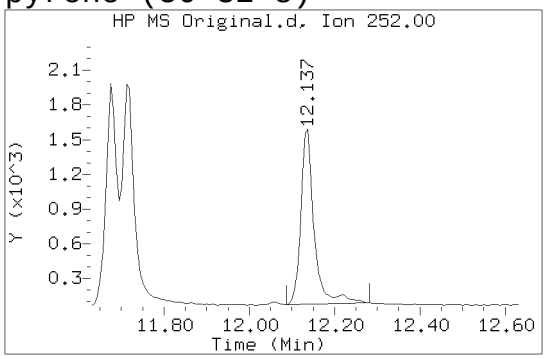
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
252
AREA
3316
HEIGHT
1510
18-Dec-2023
10:16
linh
pham



AFTER

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1510
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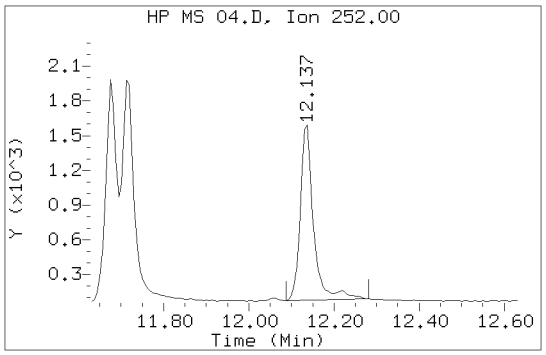
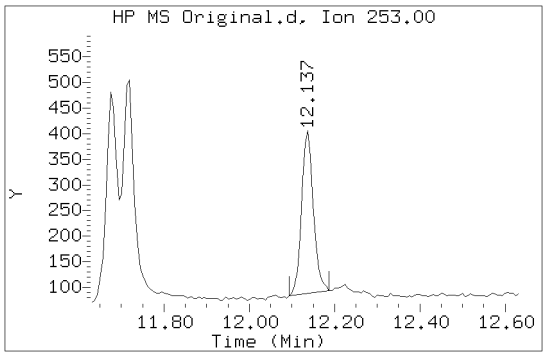


BEFORE

MASS
253
AREA
615
HEIGHT
317
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
615
HEIGHT
317
18-Dec-2023
10:16
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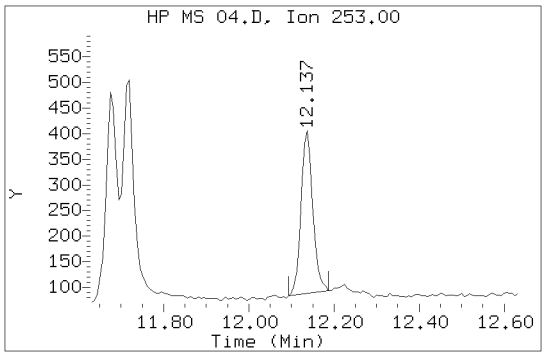
pham



BEFORE

MASS
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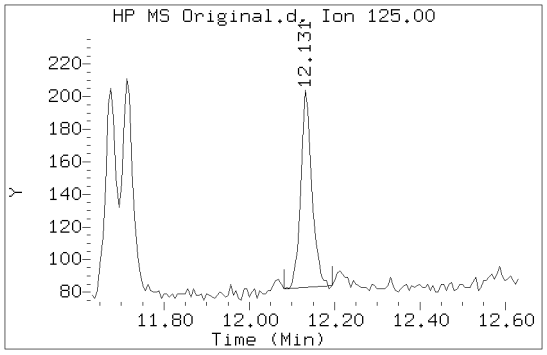
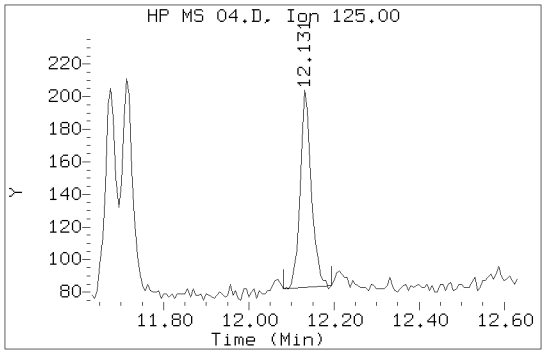
AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham

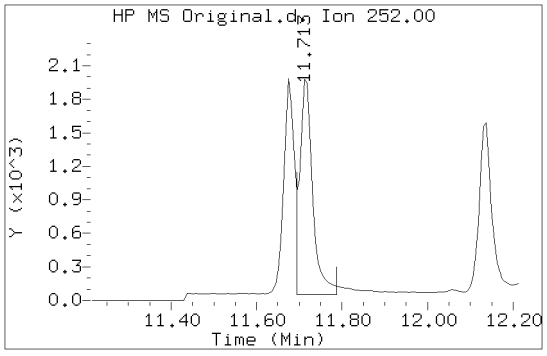


Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

MASS
252
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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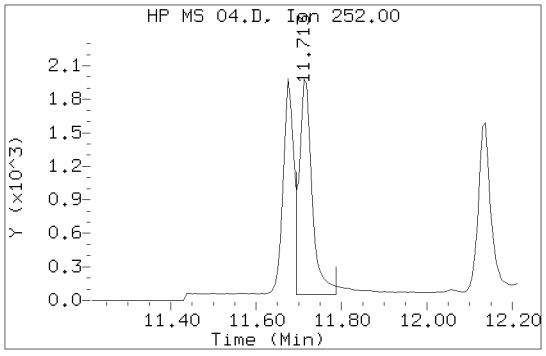
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



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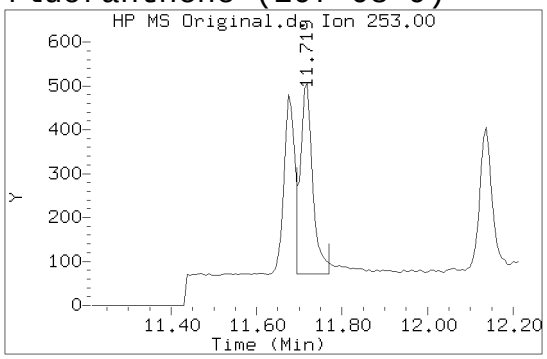
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

MASS
253
AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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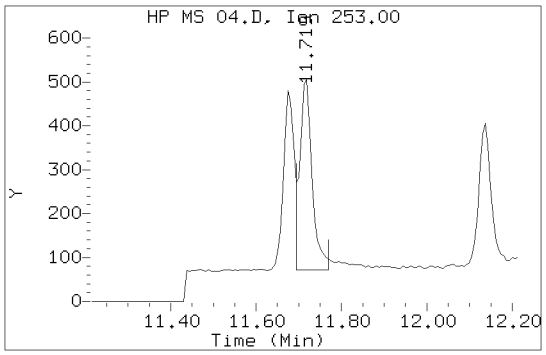
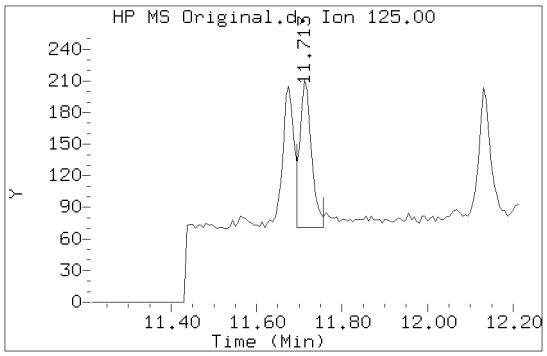
AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
125
AREA
275
HEIGHT
140
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
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HEIGHT
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18-Dec-2023
10:16
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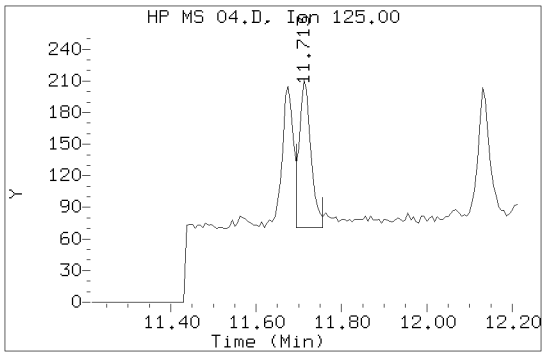

Benzo(b)fluoranthene (205-99-2)

Reason Code:

BEFORE

MASS
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3363
HEIGHT
1920
18-Dec-2023
10:16
linh
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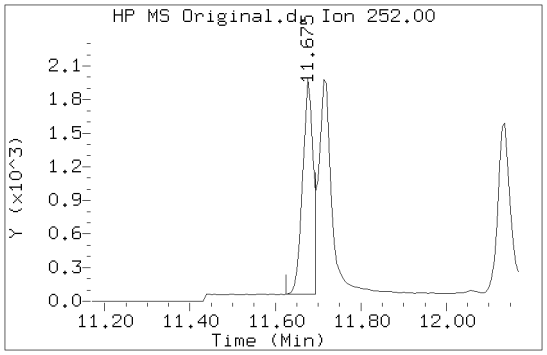

AFTER

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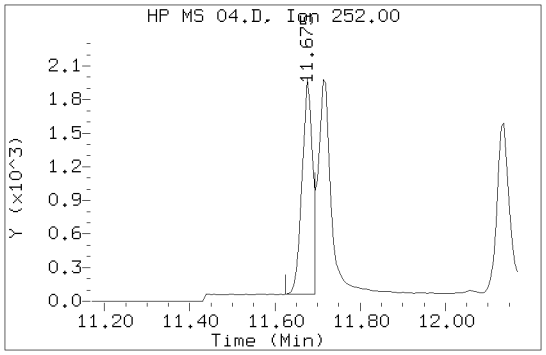

BEFORE

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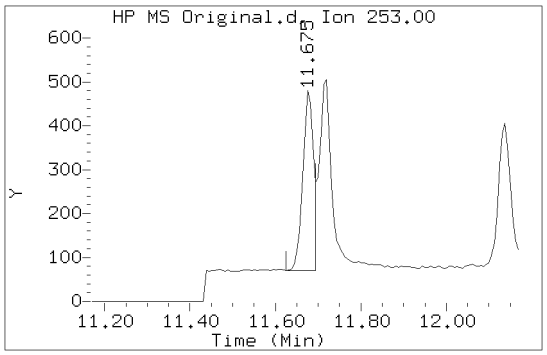
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham