

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111424\
 Data File : VU061663.D
 Acq On : 14 Nov 2024 11:34
 Operator : MD/SY
 Sample : P4803-07DL 2X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 00:43:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 15 00:40:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	191748	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	178993	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	86475	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	53936	4.354	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.000%
7) Chloroethane-d5	1.911	69	45924	4.342	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.800%
11) 1,1-Dichloroethene-d2	2.560	65	23726	4.268	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.400%
20) 2-Butanone-d5	4.634	46	121610	46.246	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.500%
24) Chloroform-d	5.052	84	110061	4.469	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.400%
26) 1,2-Dichloroethane-d4	5.695	65	55768	4.719	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.400%
32) Benzene-d6	5.717	84	230424	4.653	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
36) 1,2-Dichloropropane-d6	6.682	67	69538	4.761	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.200%
41) Toluene-d8	7.891	98	206725	4.479	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.600%
43) trans-1,3-Dichloroprop...	8.174	79	23321	4.335	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.800%
46) 2-Hexanone-d5	8.630	63	102010	47.987	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.980%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	53037	4.607	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.200%
66) 1,2-Dichlorobenzene-d4	12.183	152	74072	4.809	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	59448	4.167	ug/L	100
12) 1,1-Dichloroethene	2.573	96	72685	6.279	ug/L	91
16) Methylene chloride	3.039	84	137861	10.335	ug/L	98
18) trans-1,2-Dichloroethene	3.348	96	89363	7.038	ug/L	99
22) cis-1,2-Dichloroethene	4.656	96	38151	2.664	ug/L	98
27) 1,2-Dichloroethane	5.785	62	20600	1.346	ug/L	100
29) 1,1,1-Trichloroethane	5.306	97	119036	5.844	ug/L	99
31) Carbon tetrachloride	5.515	117	85455	4.926	ug/L	99
33) Benzene	5.766	78	461449	8.518	ug/L	100
34) Trichloroethene	6.534	95	32263	2.206	ug/L	97
35) Methylcyclohexane	6.682	83	16343	0.741	ug/L #	33
37) 1,2-Dichloropropane	6.782	63	92660	6.742	ug/L	99
42) Toluene	7.962	91	532840	9.135	ug/L	100
45) 1,1,2-Trichloroethane	8.393	97	18408	1.837	ug/L	95
47) Tetrachloroethene	8.544	164	70614	6.424	ug/L	98
49) Dibromochloromethane	8.544	129	70603	6.721	ug/L #	10
51) Chlorobenzene	9.438	112	214392	5.710	ug/L	99
52) Ethylbenzene	9.563	91	508215	8.180	ug/L	99
53) m,p-Xylene	9.682	106	171892	7.231	ug/L	98

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Nov 15 00:40:52 2024
Response via : Initial Calibration

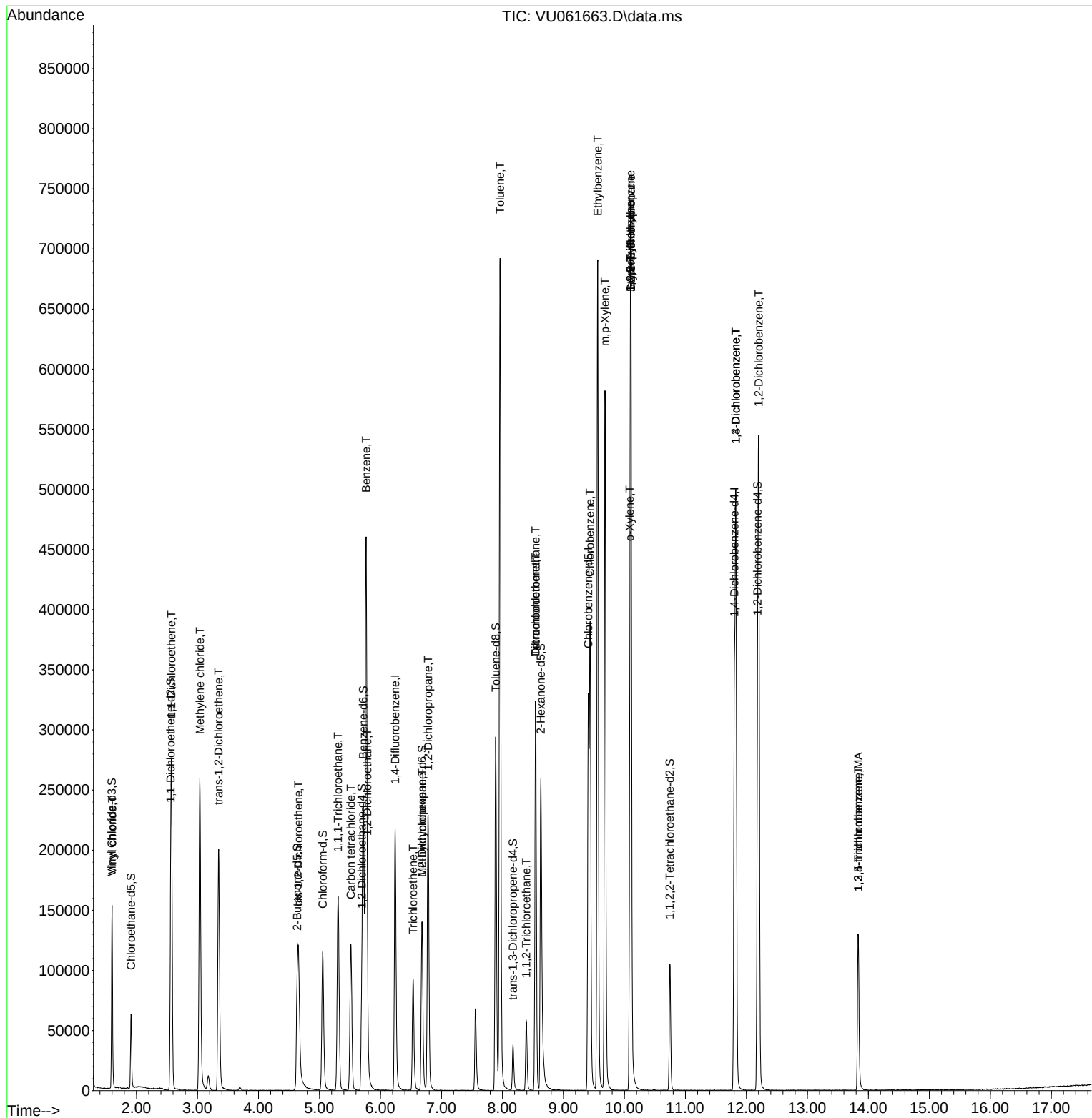
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.090	106	67423	2.918	ug/L	98
55) Styrene	10.106	104	336039	9.134	ug/L	96
60) Isopropylbenzene	10.100	105	56768	0.947	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	15486	1.901	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.100	105	56768	1.182	ug/L #	29
64) 1,3-Dichlorobenzene	11.826	146	199730	7.262	ug/L	97
65) 1,4-Dichlorobenzene	11.826	146	199730	7.152	ug/L	97
67) 1,2-Dichlorobenzene	12.203	146	201008	7.859	ug/L	96
69) 1,3,5-Trichlorobenzene	13.836	180	46295	2.411	ug/L	98
70) 1,2,4-trichlorobenzene	13.836	180	46295	3.111	ug/L	98

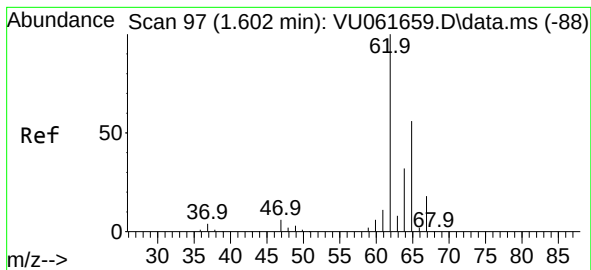
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.167 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA_U

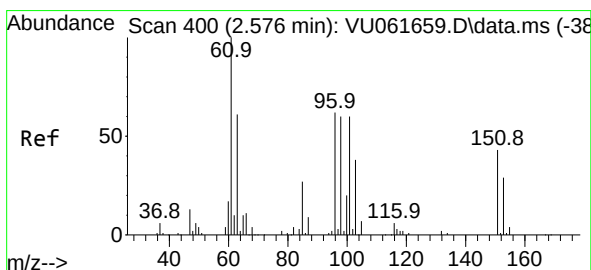
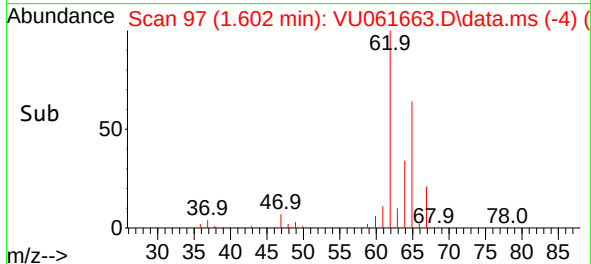
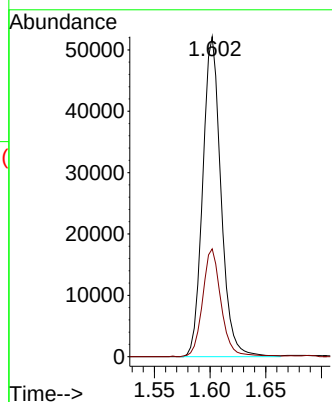
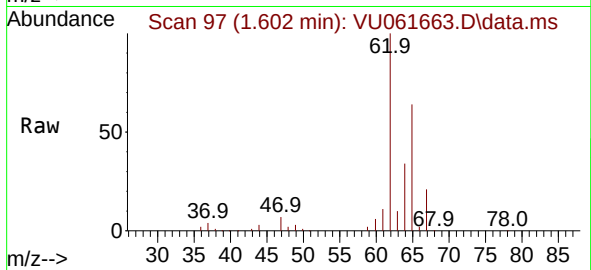
ClientSampleId :

Tgt Ion: 62 Resp: 59448

Ion Ratio Lower Upper

62 100

64 33.7 23.7 44.1



#12

1,1-Dichloroethene

Concen: 6.279 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

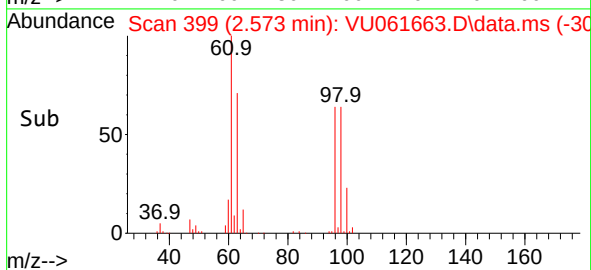
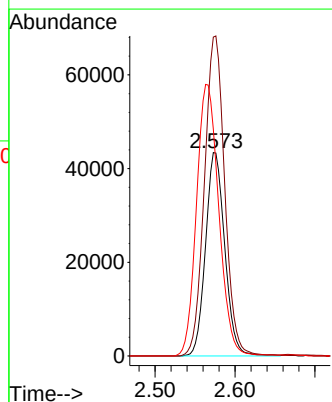
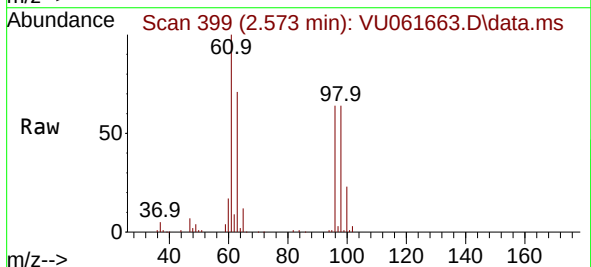
Tgt Ion: 96 Resp: 72685

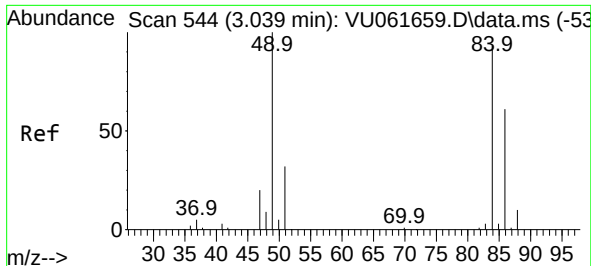
Ion Ratio Lower Upper

96 100

61 156.8 116.8 217.0

63 111.6 86.1 159.9

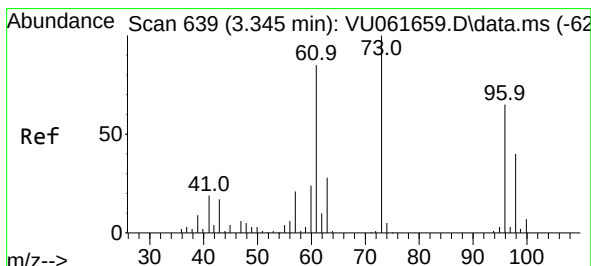
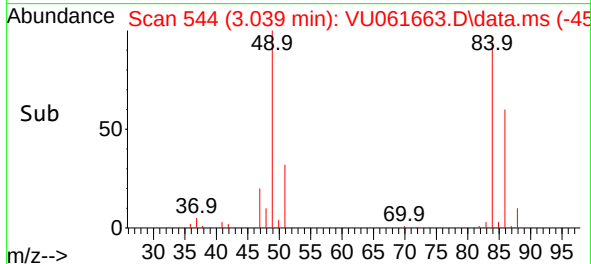
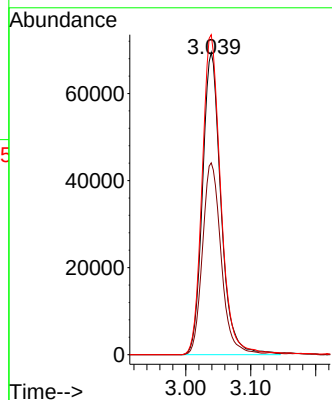
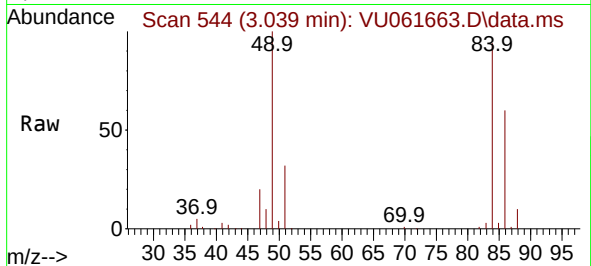




#16
Methylene chloride
Concen: 10.335 ug/L
RT: 3.039 min Scan# 54
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

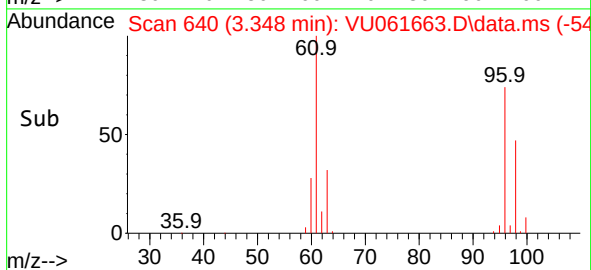
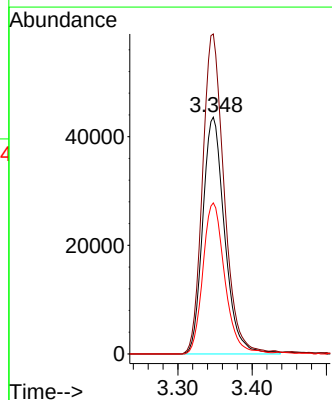
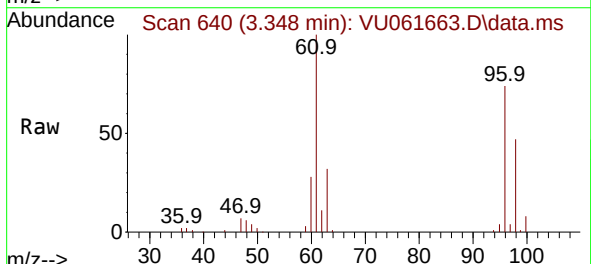
Instrument :
MSVOA_U
ClientSampleId :

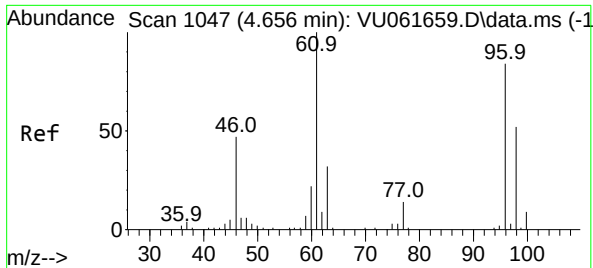
Tgt Ion: 84 Resp: 137861
Ion Ratio Lower Upper
84 100
86 63.5 45.1 83.7
49 105.9 76.3 141.7



#18
trans-1,2-Dichloroethene
Concen: 7.038 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.003 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion: 96 Resp: 89363
Ion Ratio Lower Upper
96 100
61 135.1 94.1 174.8
98 63.8 43.2 80.2

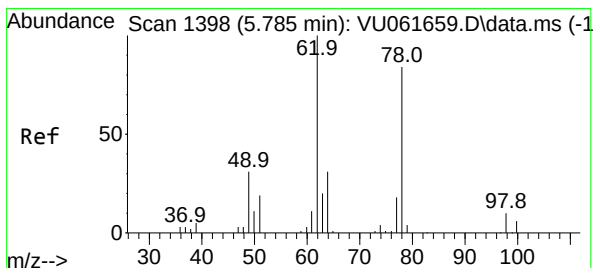
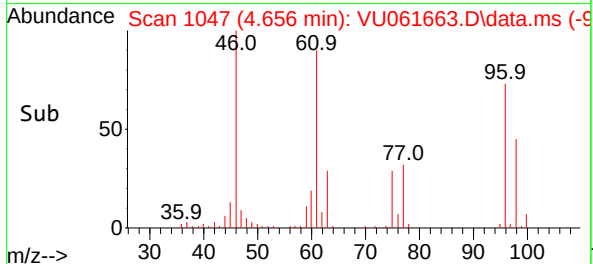
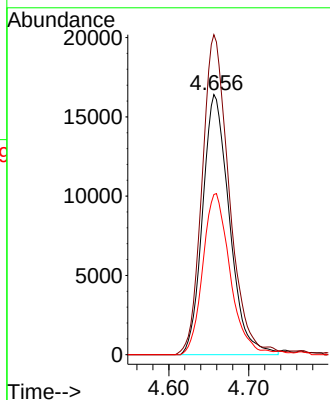
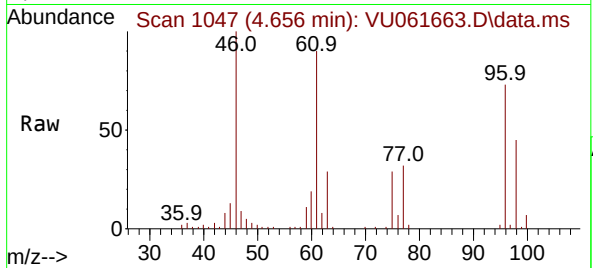




#22
 cis-1,2-Dichloroethene
 Concen: 2.664 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. -0.000 min
 Lab File: VU061663.D
 Acq: 14 Nov 2024 11:34

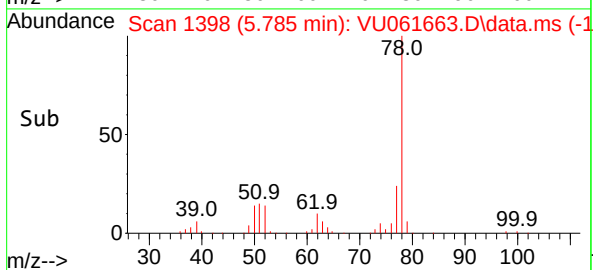
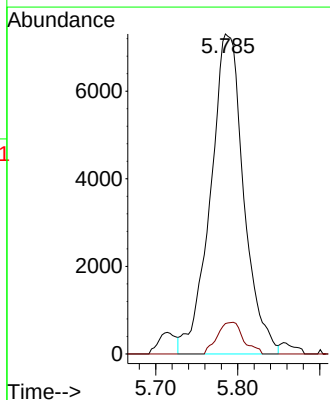
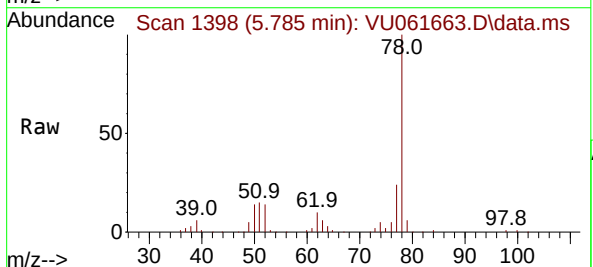
Instrument :
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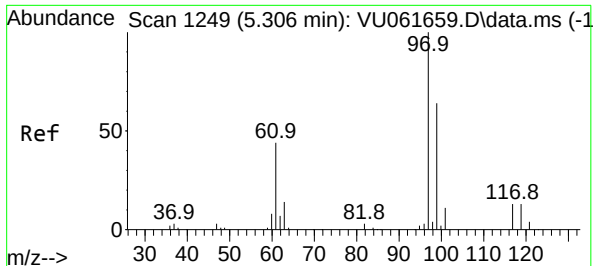
Tgt Ion: 96 Resp: 38151
 Ion Ratio Lower Upper
 96 100
 61 123.0 85.6 159.0
 98 61.5 45.6 84.8



#27
 1,2-Dichloroethane
 Concen: 1.346 ug/L
 RT: 5.785 min Scan# 1398
 Delta R.T. -0.000 min
 Lab File: VU061663.D
 Acq: 14 Nov 2024 11:34

Tgt Ion: 62 Resp: 20600
 Ion Ratio Lower Upper
 62 100
 98 9.5 7.7 11.5

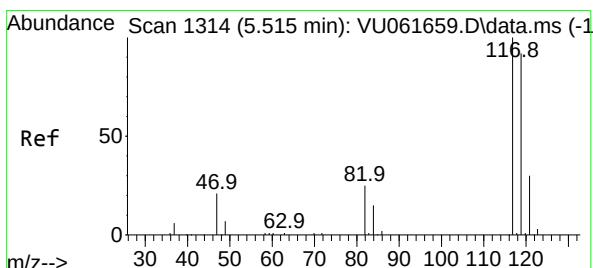
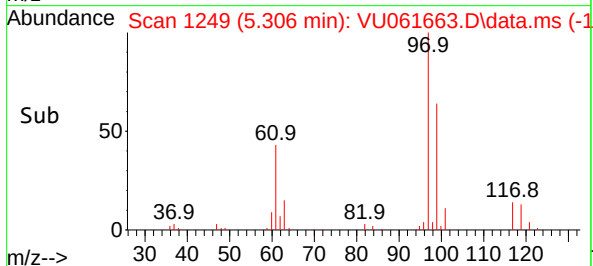
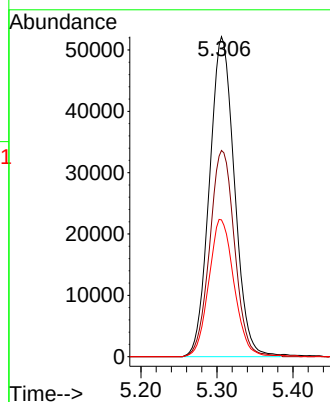
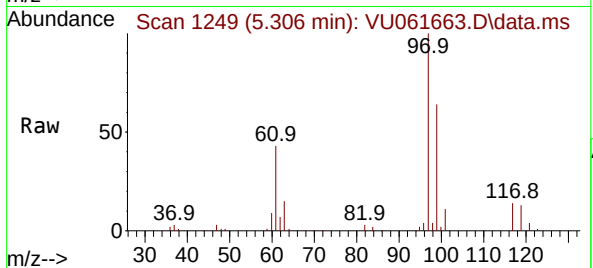




#29
1,1,1-Trichloroethane
Concen: 5.844 ug/L
RT: 5.306 min Scan# 119036
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

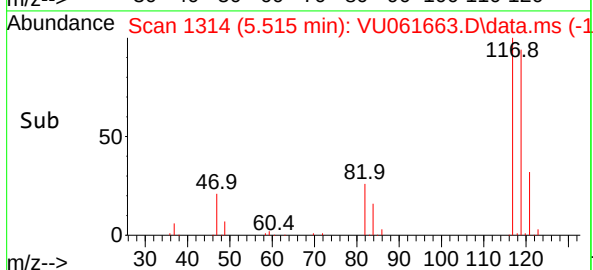
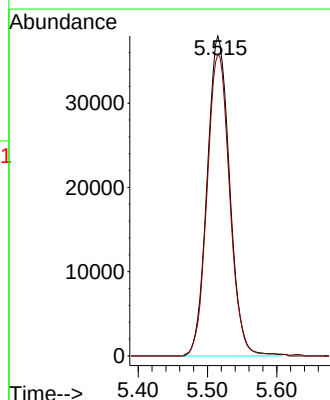
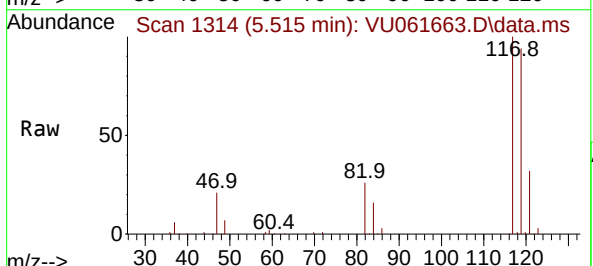
Instrument :
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ClientSampleId :

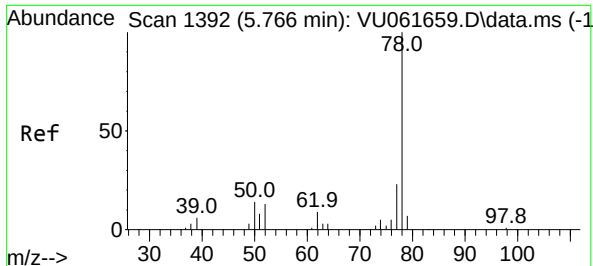
Tgt Ion:	97	Resp:	119036
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.7	77.5
61	43.3	35.4	53.0



#31
Carbon tetrachloride
Concen: 4.926 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion:	117	Resp:	85455
Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.6	114.8

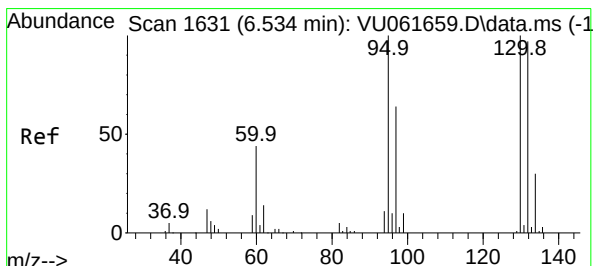
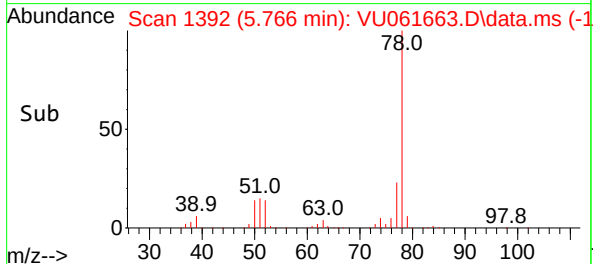
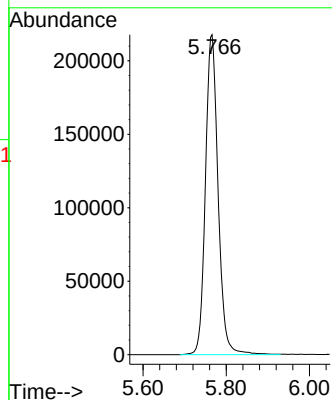
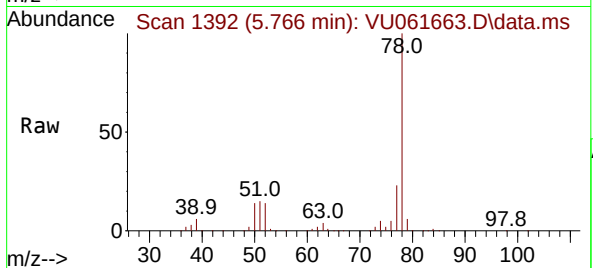




#33
Benzene
Concen: 8.518 ug/L
RT: 5.766 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Instrument :
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ClientSampleId :

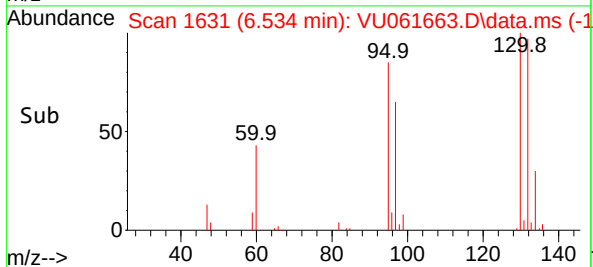
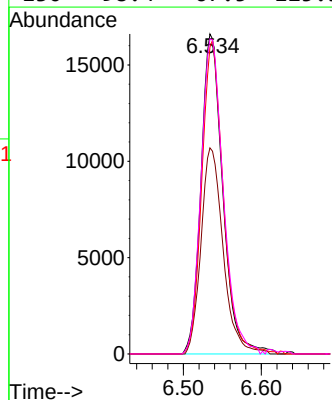
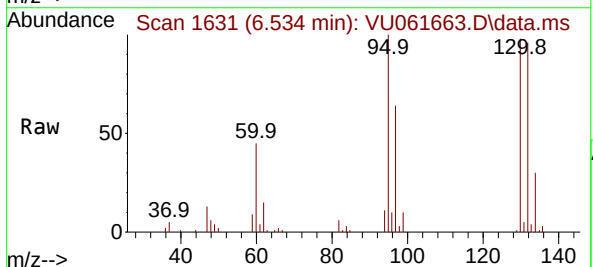
Tgt Ion: 78 Resp: 461449

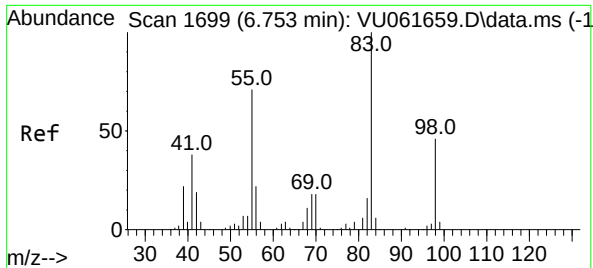


#34
Trichloroethene
Concen: 2.206 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion: 95 Resp: 32263

Ion	Ratio	Lower	Upper
95	100		
97	64.4	43.5	80.9
132	95.9	65.2	121.0
130	98.4	67.5	125.3

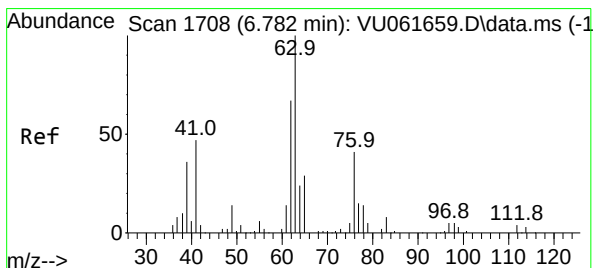
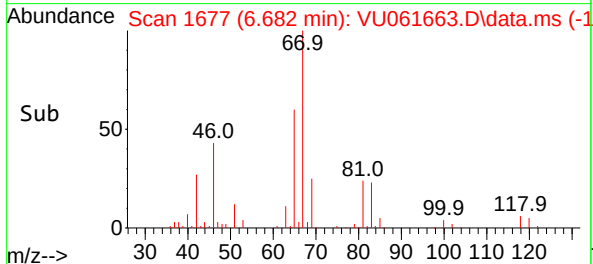
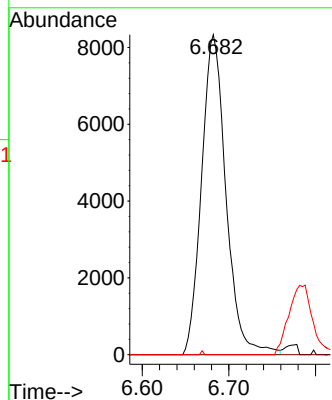
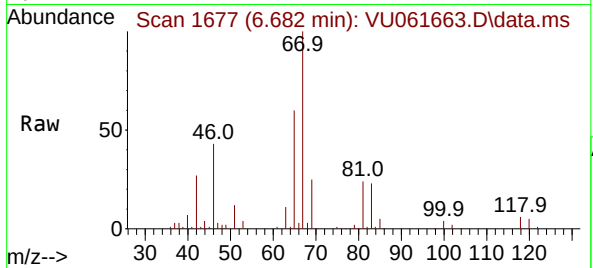




#35
Methylcyclohexane
Concen: 0.741 ug/L
RT: 6.682 min Scan# 1699
Delta R.T. -0.071 min
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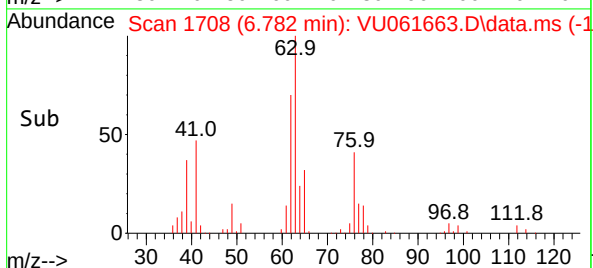
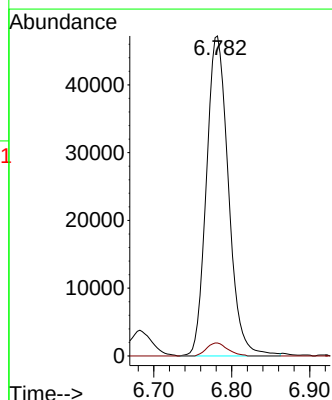
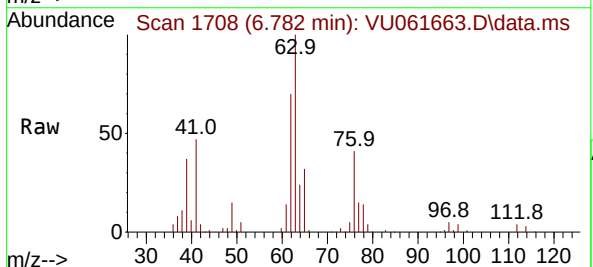
Instrument :
MSVOA_U
ClientSampleId :

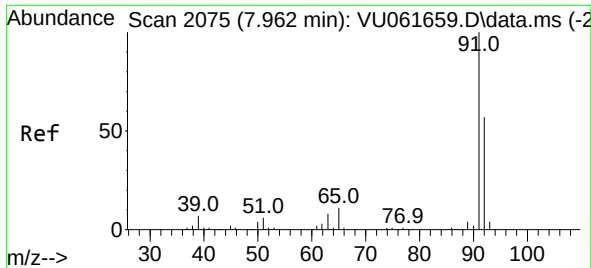
Tgt Ion	83	Resp	16343
Ion Ratio	Lower	Upper	
83	100		
55	0.0	56.4	84.6#
98	21.0	37.7	56.5#



#37
1,2-Dichloropropane
Concen: 6.742 ug/L
RT: 6.782 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion	63	Resp	92660
Ion Ratio	Lower	Upper	
63	100		
112	3.9	3.0	4.4





#42

Toluene

Concen: 9.135 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA_U

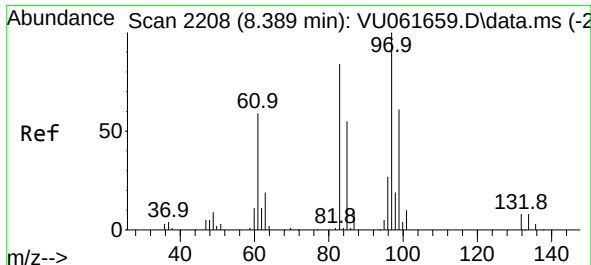
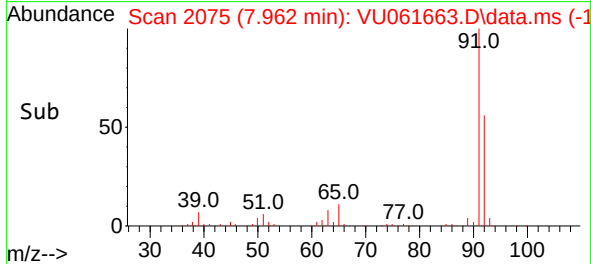
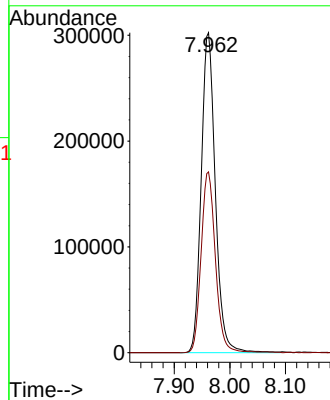
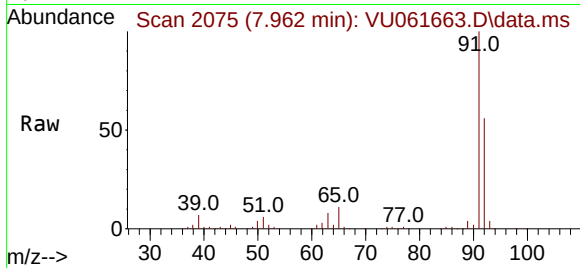
ClientSampleId :

Tgt Ion: 91 Resp: 532840

Ion Ratio Lower Upper

91 100

92 56.5 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 1.837 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. 0.003 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Tgt Ion: 97 Resp: 18408

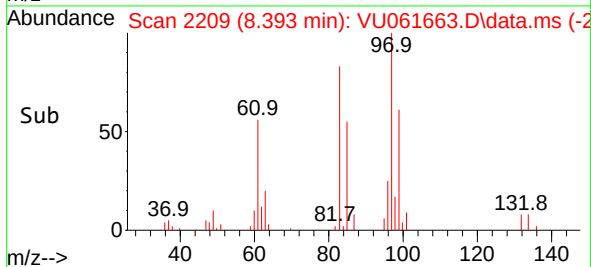
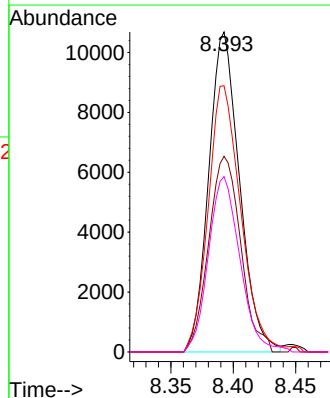
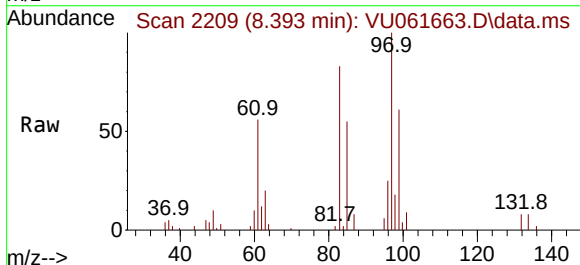
Ion Ratio Lower Upper

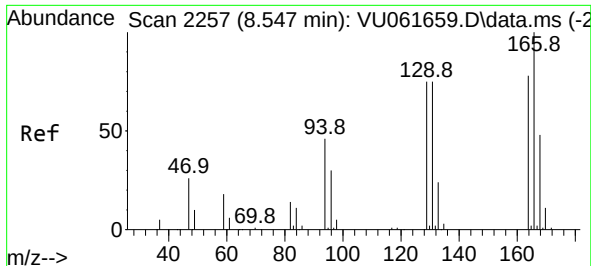
97 100

99 61.2 43.8 81.3

83 83.2 63.2 117.4

85 54.8 40.3 74.8





#47

Tetrachloroethene

Concen: 6.424 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.003 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 70614

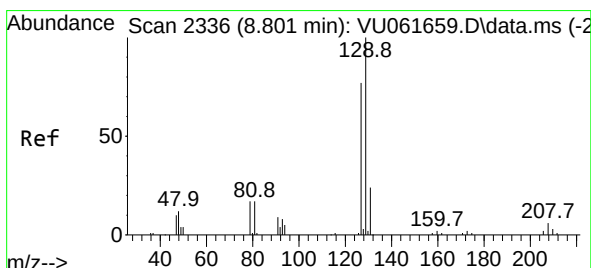
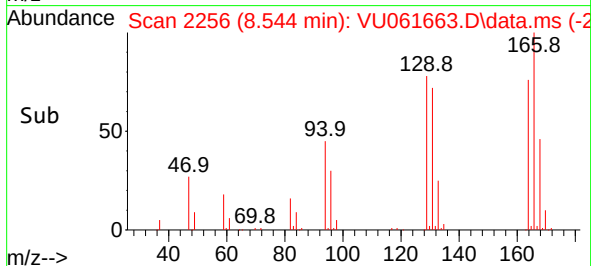
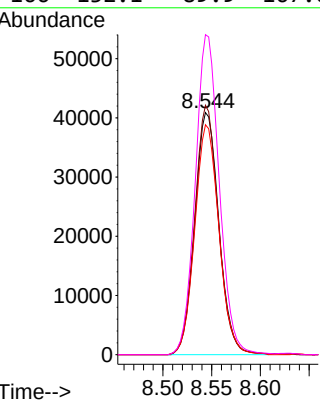
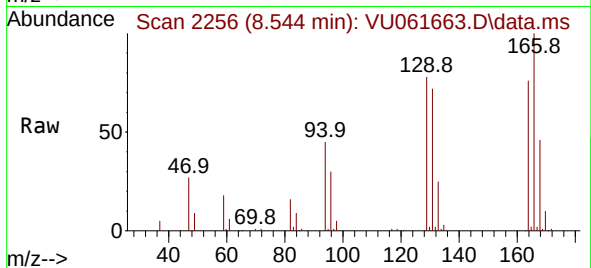
Ion Ratio Lower Upper

164 100

129 103.0 71.7 133.3

131 95.0 68.2 126.6

166 132.1 89.9 167.0



#49

Dibromochloromethane

Concen: 6.721 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061663.D

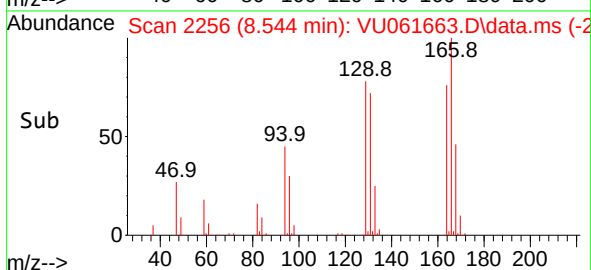
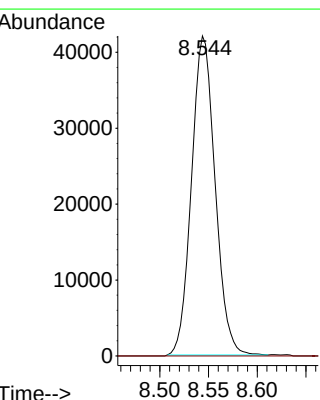
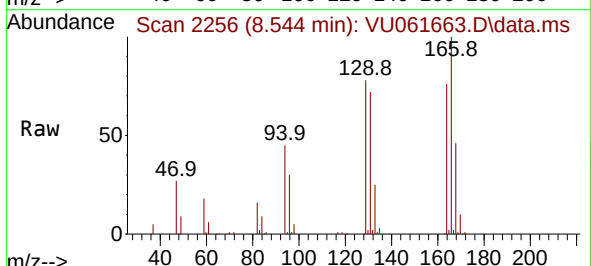
Acq: 14 Nov 2024 11:34

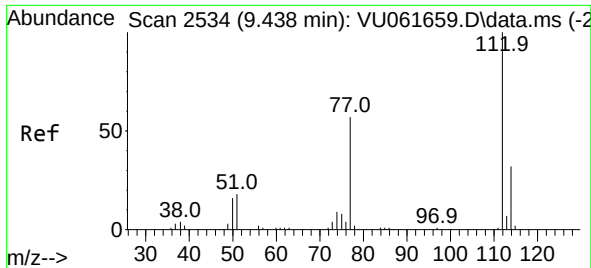
Tgt Ion:129 Resp: 70603

Ion Ratio Lower Upper

129 100

127 0.0 55.1 102.3#

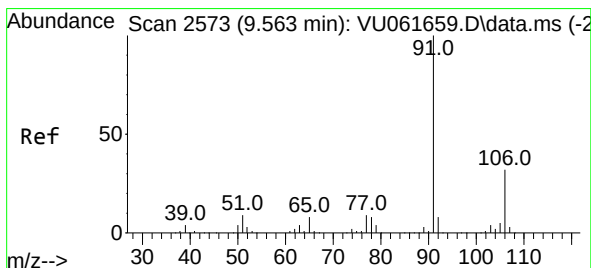
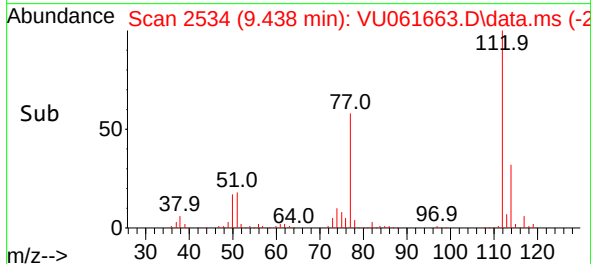
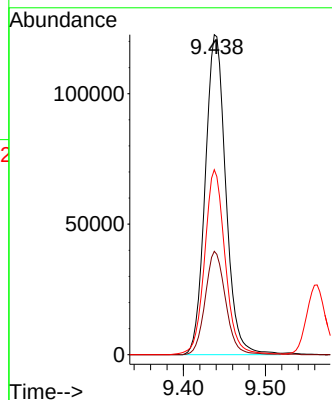
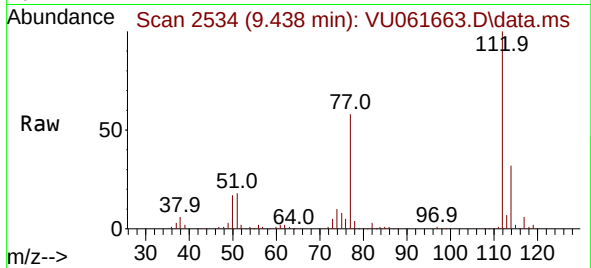




#51
Chlorobenzene
Concen: 5.710 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

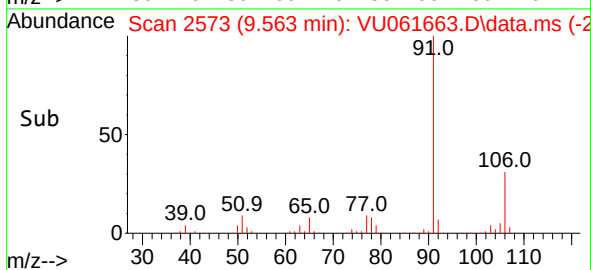
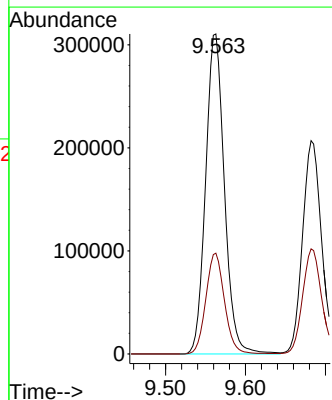
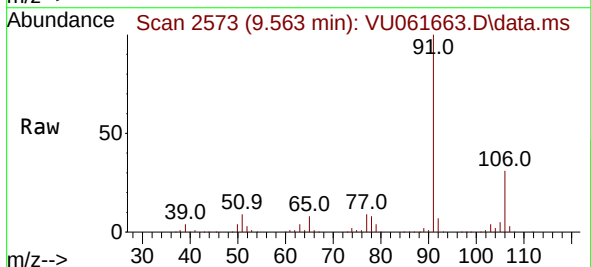
Instrument :
MSVOA_U
ClientSampleId :

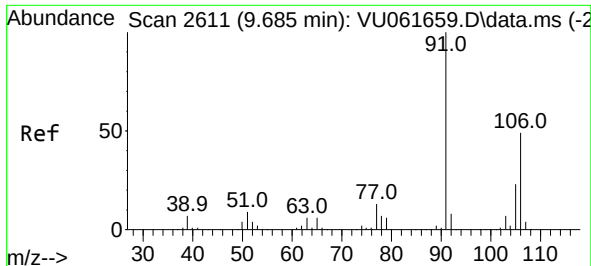
Tgt Ion:112 Resp: 214392
Ion Ratio Lower Upper
112 100
114 32.3 22.5 41.9
77 57.8 45.3 67.9



#52
Ethylbenzene
Concen: 8.180 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion: 91 Resp: 508215
Ion Ratio Lower Upper
91 100
106 31.5 21.7 40.3

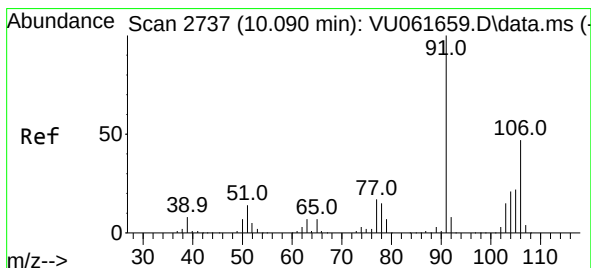
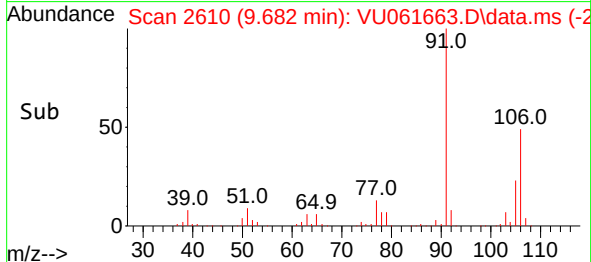
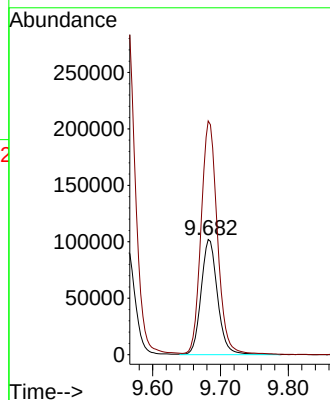
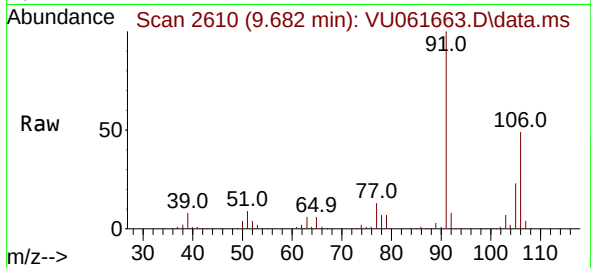




#53
m,p-Xylene
Concen: 7.231 ug/L
RT: 9.682 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

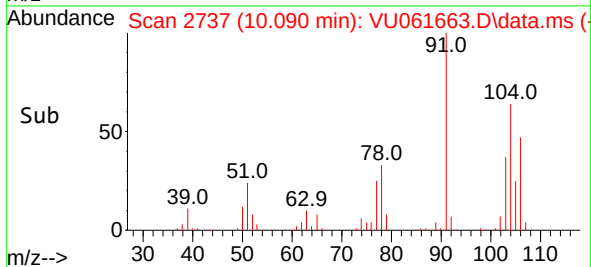
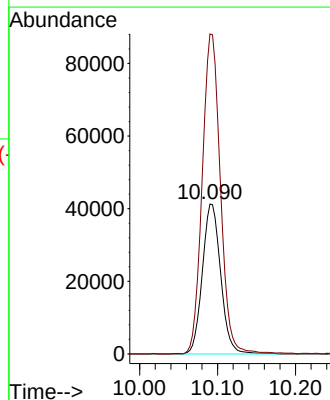
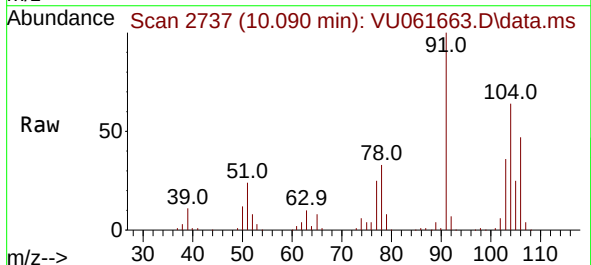
Instrument :
MSVOA_U
ClientSampleId :

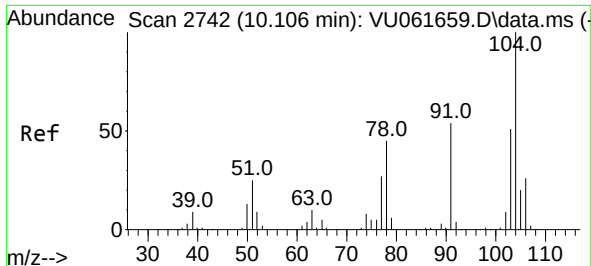
Tgt Ion:106 Resp: 171892
Ion Ratio Lower Upper
106 100
91 203.0 140.4 260.8



#54
o-Xylene
Concen: 2.918 ug/L
RT: 10.090 min Scan# 2737
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion:106 Resp: 67423
Ion Ratio Lower Upper
106 100
91 213.4 151.3 280.9

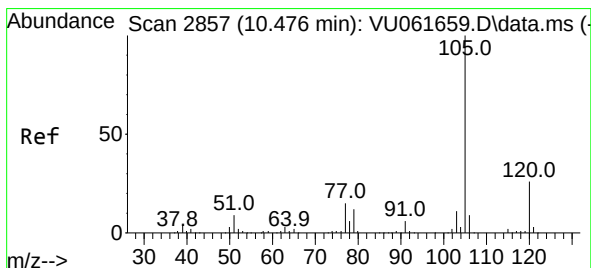
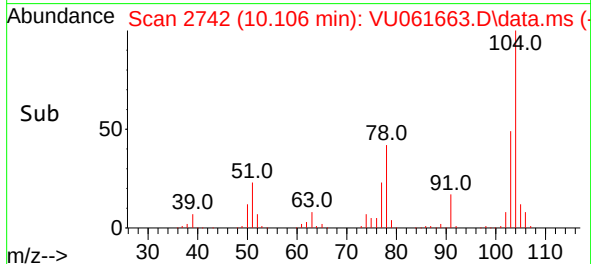
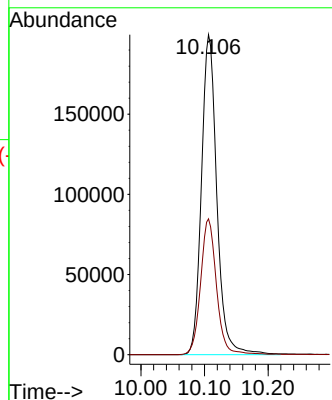
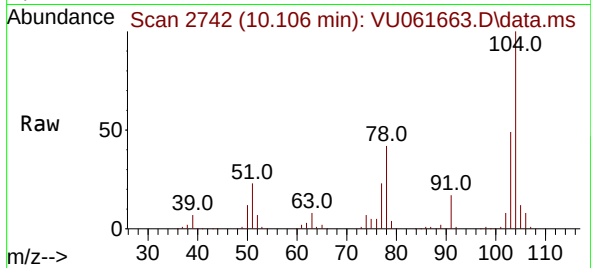




#55
Styrene
Concen: 9.134 ug/L
RT: 10.106 min Scan# 2742
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

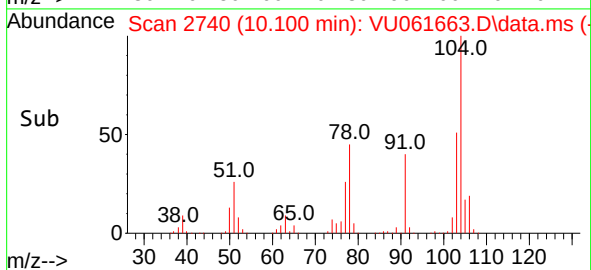
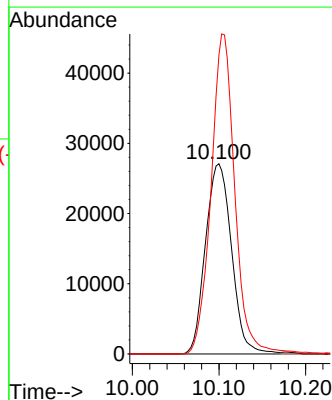
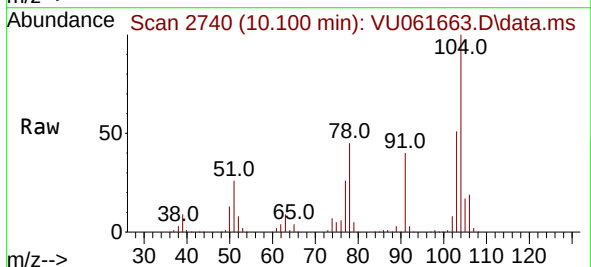
Instrument :
MSVOA_U
ClientSampleId :

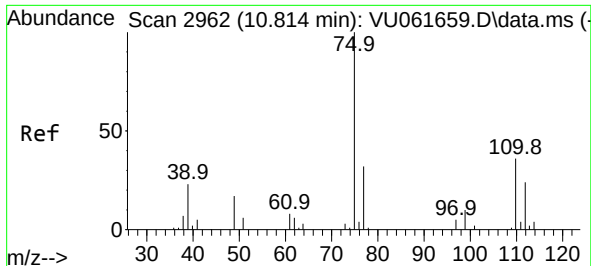
Tgt Ion:104 Resp: 336039
Ion Ratio Lower Upper
104 100
78 42.5 31.6 58.6



#60
Isopropylbenzene
Concen: 0.947 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.376 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion:105 Resp: 56768
Ion Ratio Lower Upper
105 100
120 0.0 21.6 32.4#
77 153.5 12.8 19.2#

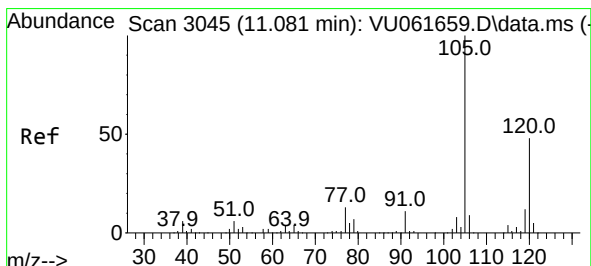
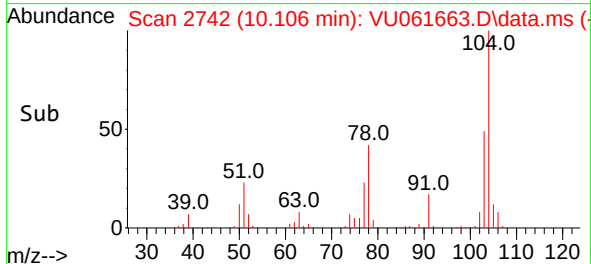
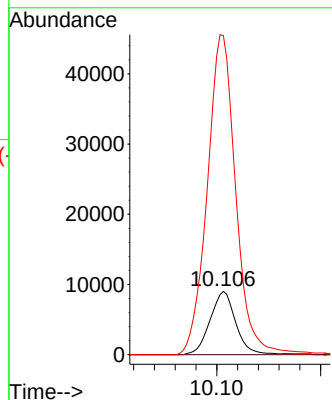
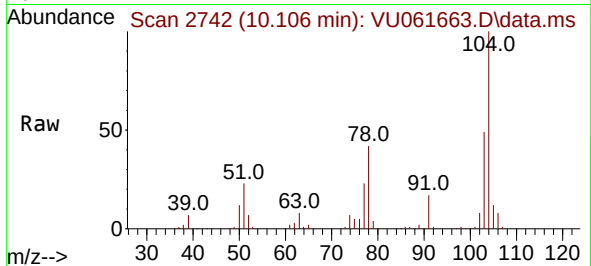




#61
 1,2,3-Trichloropropane
 Concen: 1.901 ug/L
 RT: 10.106 min Scan# 21
 Delta R.T. -0.707 min
 Lab File: VU061663.D
 Acq: 14 Nov 2024 11:34

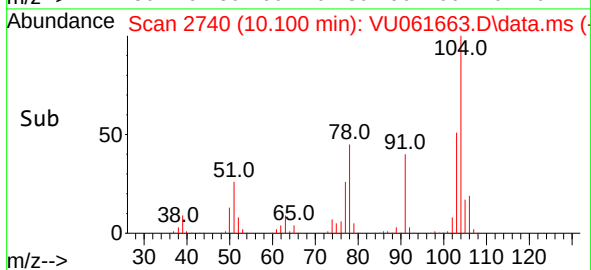
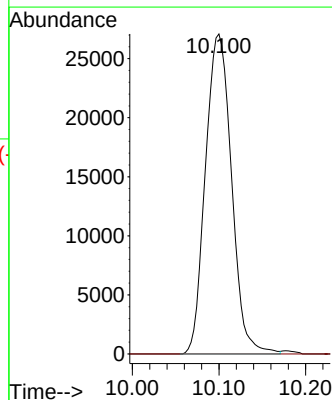
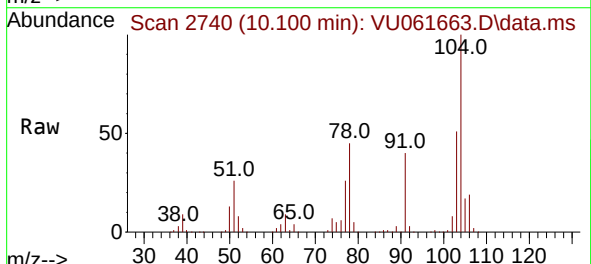
Instrument :
 MSVOA_U
 ClientSampleId :

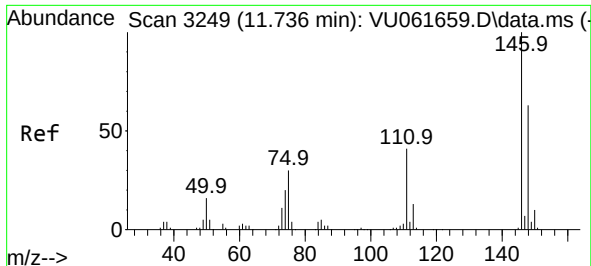
Tgt Ion: 75 Resp: 15486
 Ion Ratio Lower Upper
 75 100
 110 0.0 31.3 46.9#
 77 562.9 26.0 39.0#



#62
 1,3,5-Trimethylbenzene
 Concen: 1.182 ug/L
 RT: 10.100 min Scan# 2740
 Delta R.T. -0.981 min
 Lab File: VU061663.D
 Acq: 14 Nov 2024 11:34

Tgt Ion: 105 Resp: 56768
 Ion Ratio Lower Upper
 105 100
 120 0.0 38.5 57.7#

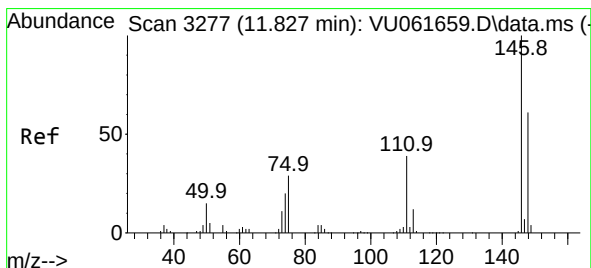
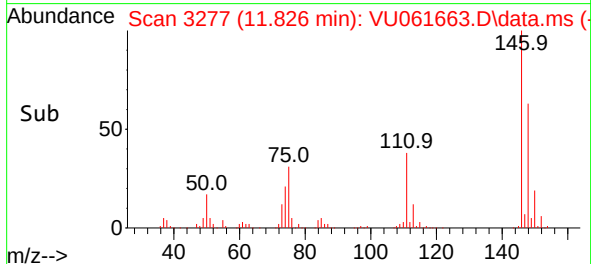
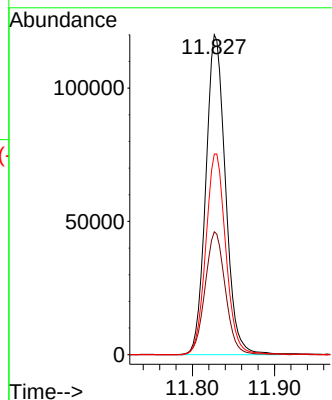
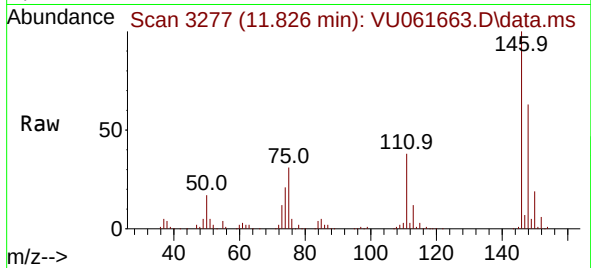




#64
1,3-Dichlorobenzene
Concen: 7.262 ug/L
RT: 11.826 min Scan# 31
Delta R.T. 0.090 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

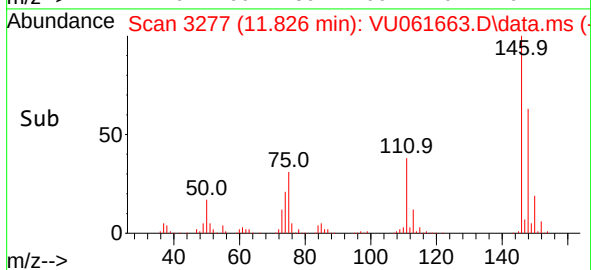
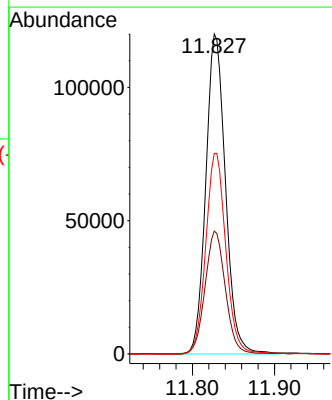
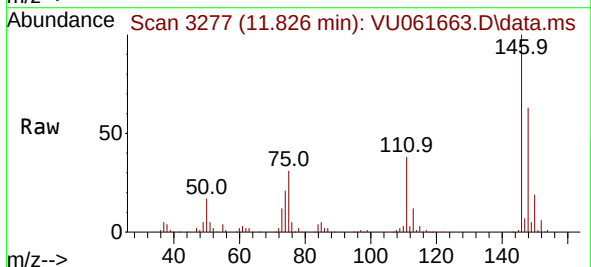
Instrument :
MSVOA_U
ClientSampleId :

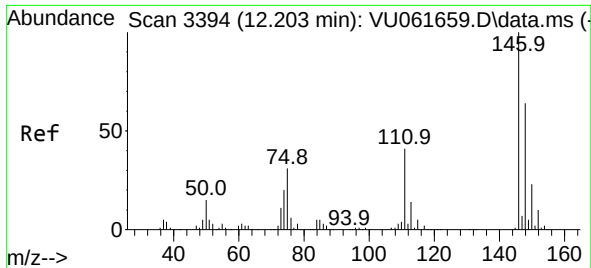
Tgt Ion:146 Resp: 199730
Ion Ratio Lower Upper
146 100
111 38.4 29.3 54.3
148 62.7 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 7.152 ug/L
RT: 11.826 min Scan# 3277
Delta R.T. -0.000 min
Lab File: VU061663.D
Acq: 14 Nov 2024 11:34

Tgt Ion:146 Resp: 199730
Ion Ratio Lower Upper
146 100
111 38.4 28.8 53.4
148 62.7 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 7.859 ug/L

RT: 12.203 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA_U

ClientSampleId :

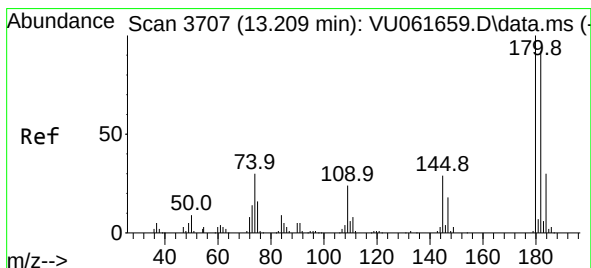
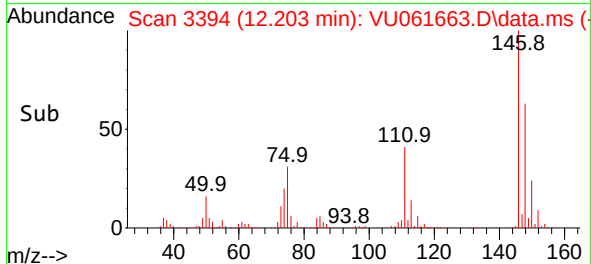
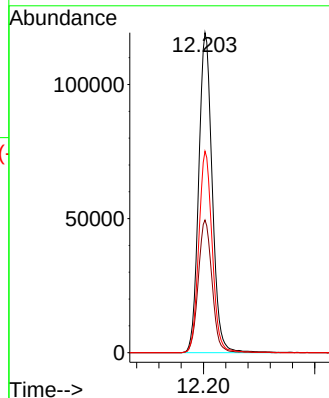
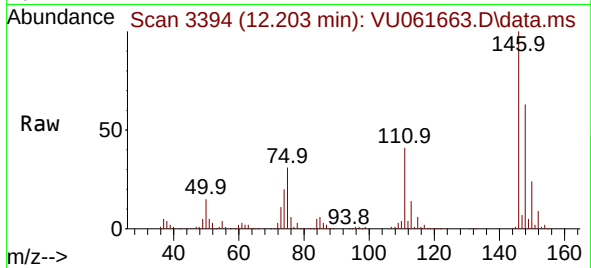
Tgt Ion:146 Resp: 201008

Ion Ratio Lower Upper

146 100

111 41.5 35.2 52.8

148 63.0 52.6 79.0



#69

1,3,5-Trichlorobenzene

Concen: 2.411 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.627 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Tgt Ion:180 Resp: 46295

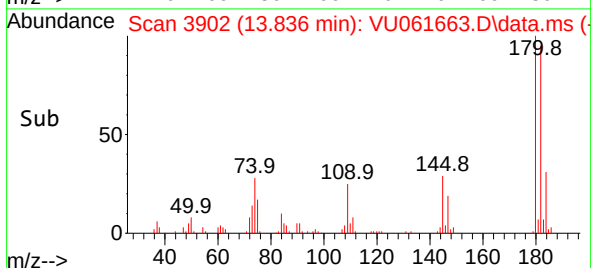
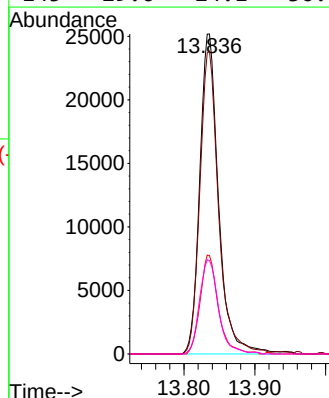
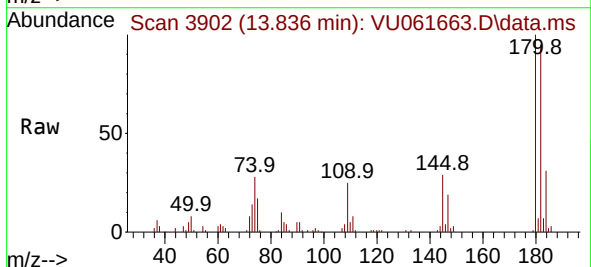
Ion Ratio Lower Upper

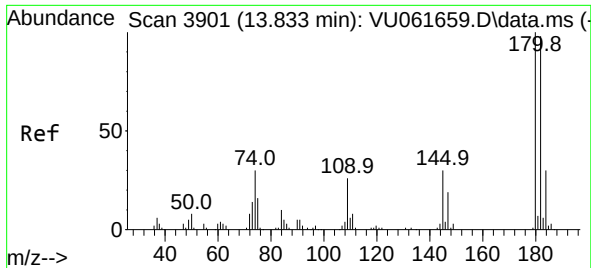
180 100

182 94.1 77.1 115.7

184 29.7 24.7 37.1

145 29.6 24.1 36.1





#70

1,2,4-trichlorobenzene

Concen: 3.111 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.003 min

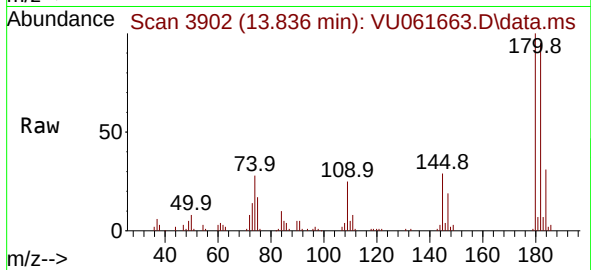
Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 46295

Ion Ratio Lower Upper

180 100

182 94.1 77.4 116.0

145 29.6 24.5 36.7

