

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030325\
 Data File : VX045110.D
 Acq On : 03 Mar 2025 14:09
 Operator : JC/MD
 Sample : Q1478-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 04 05:23:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

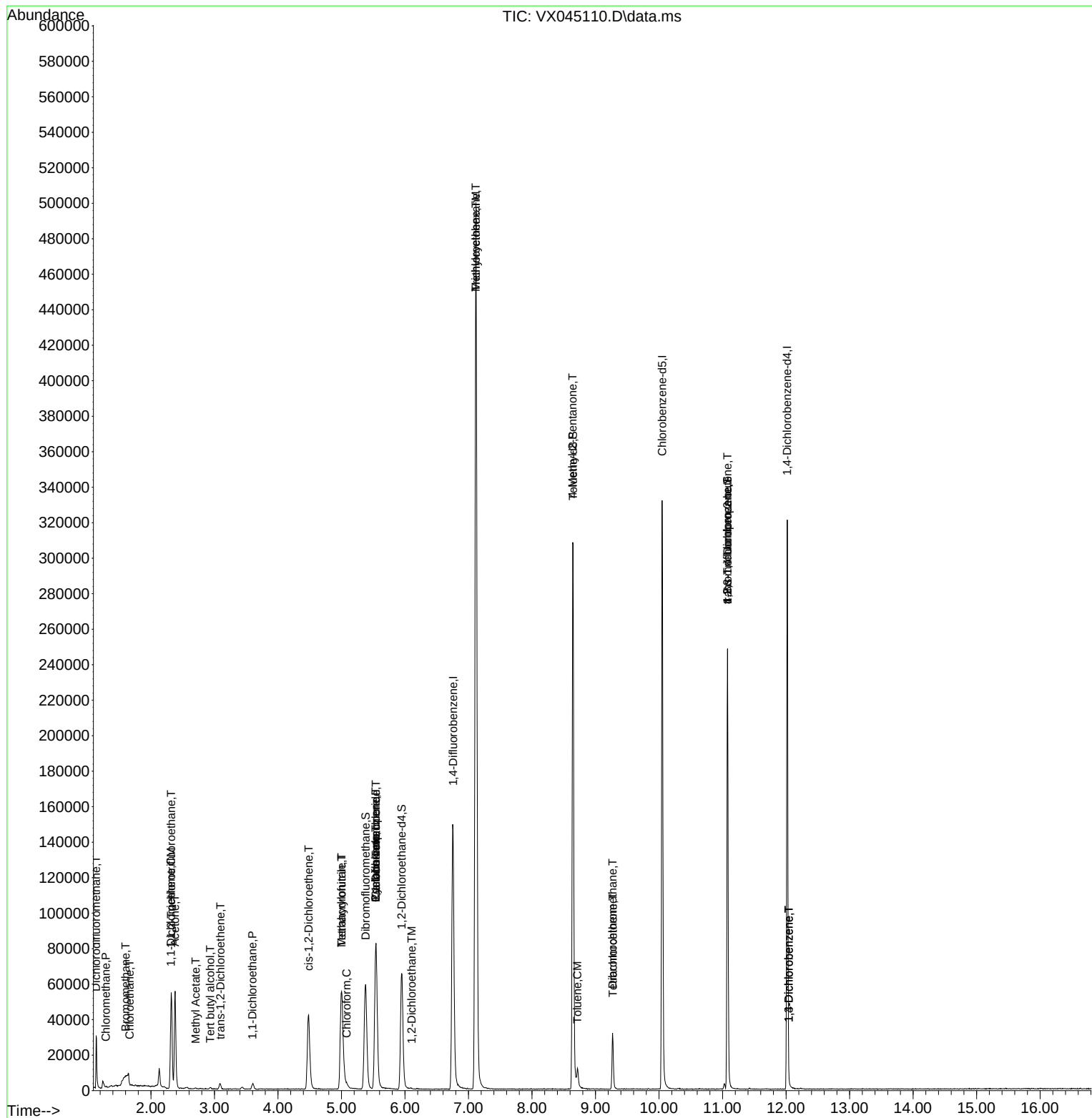
Internal Standards						
1) Pentafluorobenzene	5.537	168	77986	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.757	114	153844	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60766	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	62957	50.752	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.500%	
35) Dibromofluoromethane	5.379	113	52933	51.455	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.920%	
50) Toluene-d8	8.647	98	195171	52.332	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.660%	
62) 4-Bromofluorobenzene	11.079	95	67039	54.246	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.500%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.136	85	2948	3.003	ug/l	93
3) Chloromethane	1.288	50	247	0.206	ug/l #	43
5) Bromomethane	1.599	94	102	0.218	ug/l #	3
6) Chloroethane	1.666	64	177	0.322	ug/l #	41
9) 1,1,2-Trichlorotrifluo...	2.319	101	20109	22.186	ug/l	98
11) Tert butyl alcohol	2.934	59	329	1.400	ug/l #	73
12) 1,1-Dichloroethene	2.312	96	1235	1.289	ug/l #	74
16) Acetone	2.380	43	59672	103.679	ug/l	100
18) Methyl Acetate	2.703	43	798	0.576	ug/l #	83
21) trans-1,2-Dichloroethene	3.093	96	1486	1.570	ug/l #	75
24) 1,1-Dichloroethane	3.599	63	3500	1.800	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	26409	22.597	ug/l	92
29) Tetrahydrofuran	5.001	42	59391	102.083	ug/l	97
30) Chloroform	5.080	83	1268	0.656	ug/l	88
31) Cyclohexane	5.537	56	2014	1.193	ug/l #	18
36) 1,1-Dichloropropene	5.537	75	7242	5.133	ug/l #	51
38) Carbon Tetrachloride	5.544	117	8405	5.868	ug/l #	17
39) Methylcyclohexane	7.117	83	2396	1.417	ug/l #	1
41) Methacrylonitrile	5.001	41	31971	32.525	ug/l #	49
42) 1,2-Dichloroethane	6.104	62	676	0.421	ug/l #	75
44) Trichloroethene	7.117	130	181471	173.481	ug/l	99
51) 4-Methyl-2-Pentanone	8.641	43	1099	0.609	ug/l #	1
52) Toluene	8.714	92	3847	1.472	ug/l	98
60) Dibromochloromethane	9.269	129	5899	5.243	ug/l #	11
64) Tetrachloroethene	9.275	164	5940	6.461	ug/l	87
76) 1,2,3-Trichloropropane	11.079	75	35224	24.905	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	35224	85.229	ug/l #	6
87) 1,3-Dichlorobenzene	12.042	146	405	0.203	ug/l #	60
88) 1,4-Dichlorobenzene	12.042	146	405	0.201	ug/l #	61

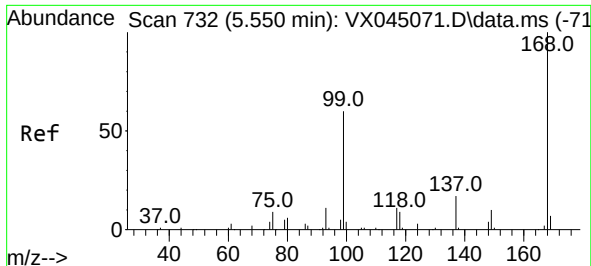
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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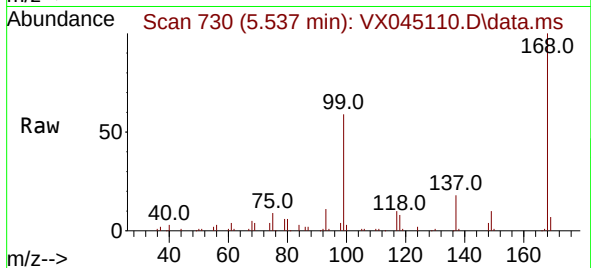
Quant Time: Mar 04 05:23:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
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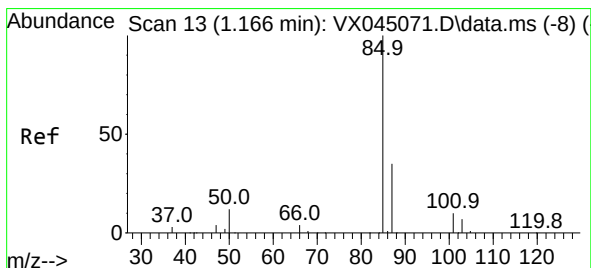
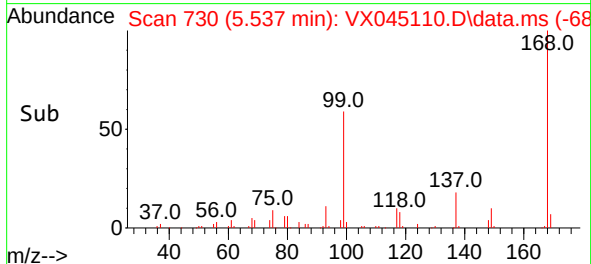
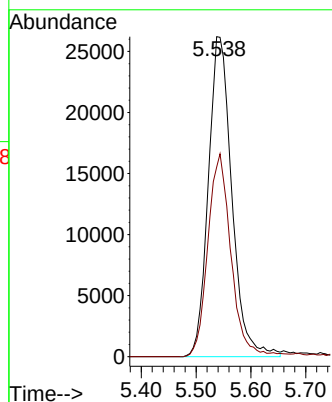


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Instrument :
MSVOA_X
ClientSampleId :

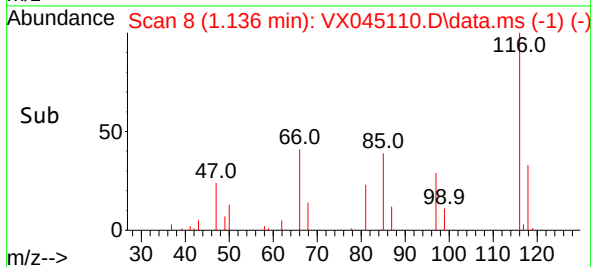
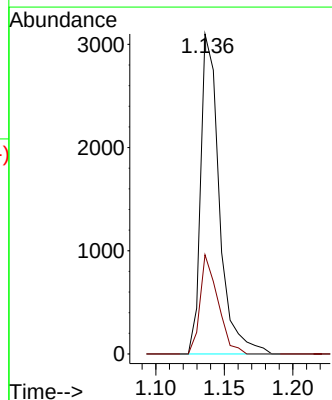
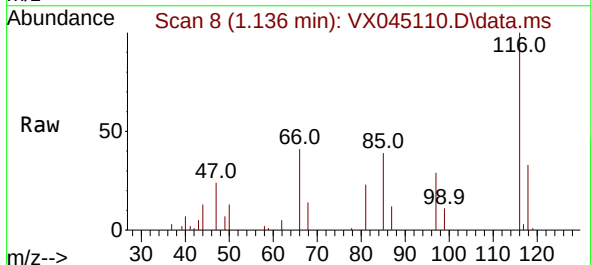


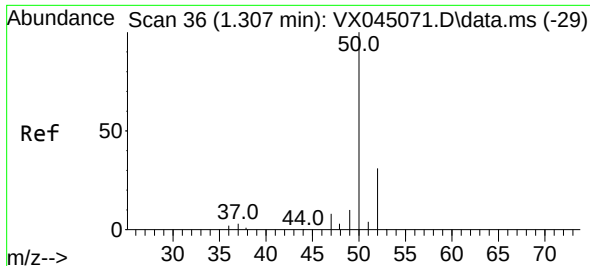
Tgt Ion:168 Resp: 77986
Ion Ratio Lower Upper
168 100
99 59.2 48.2 72.4



#2
Dichlorodifluoromethane
Concen: 3.003 ug/l
RT: 1.136 min Scan# 8
Delta R.T. -0.031 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 85 Resp: 2948
Ion Ratio Lower Upper
85 100
87 31.0 17.4 52.3

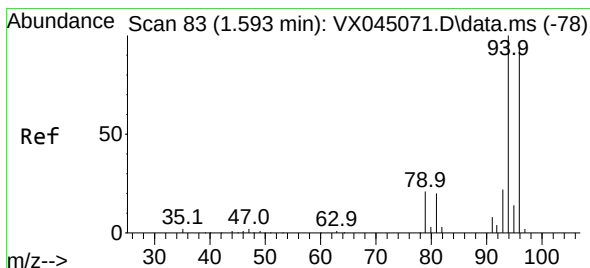
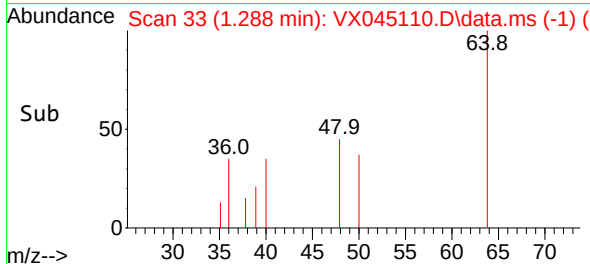
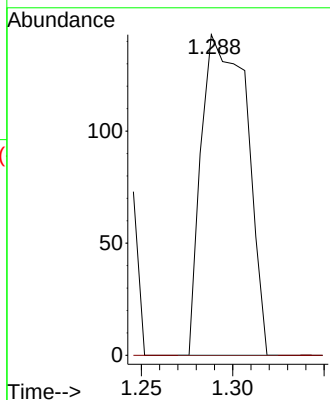
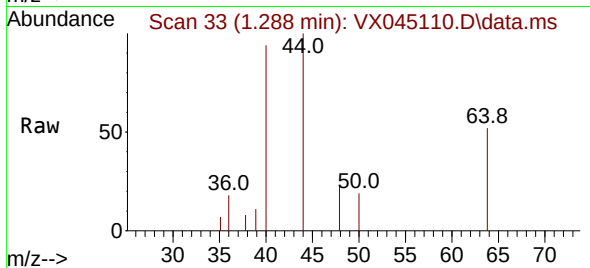




#3
Chloromethane
Concen: 0.206 ug/l
RT: 1.288 min Scan# 31
Delta R.T. -0.018 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

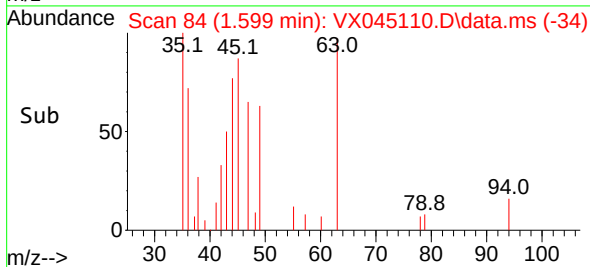
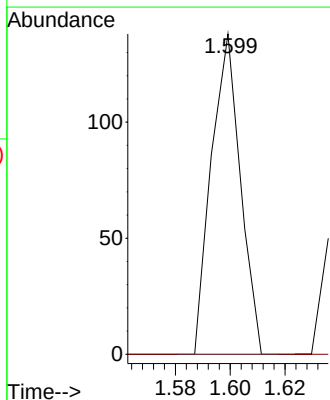
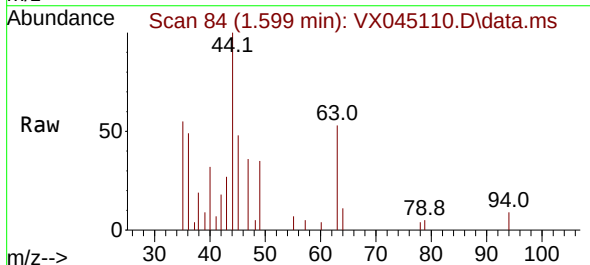
Instrument :
MSVOA_X
ClientSampleId :

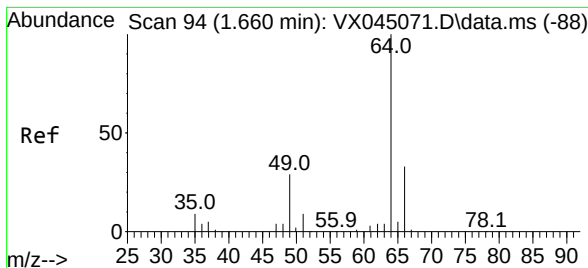
Tgt Ion: 50 Resp: 247
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



#5
Bromomethane
Concen: 0.218 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 94 Resp: 102
Ion Ratio Lower Upper
94 100
96 0.0 75.0 112.4#

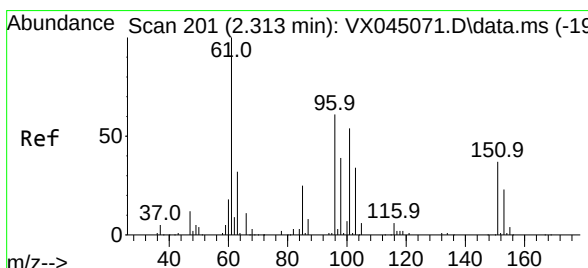
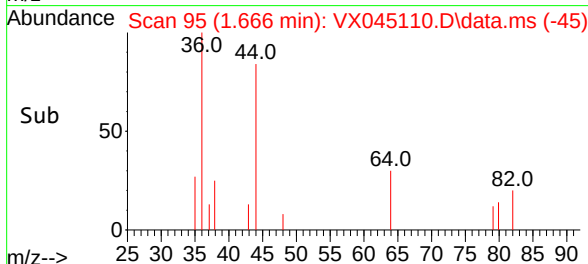
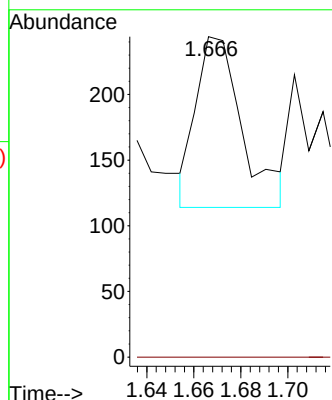
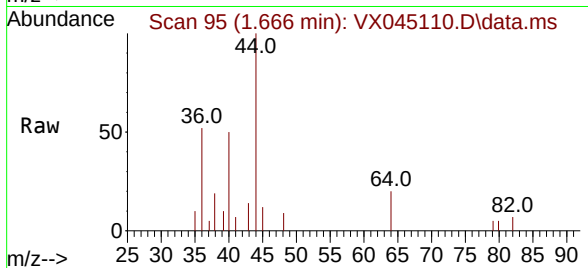




#6
Chloroethane
Concen: 0.322 ug/l
RT: 1.666 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

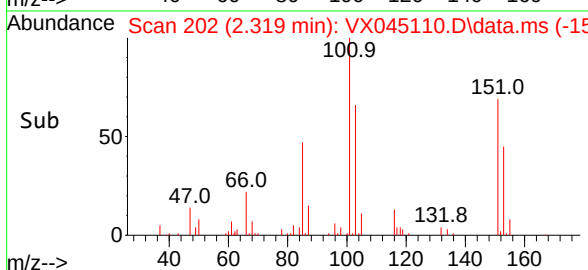
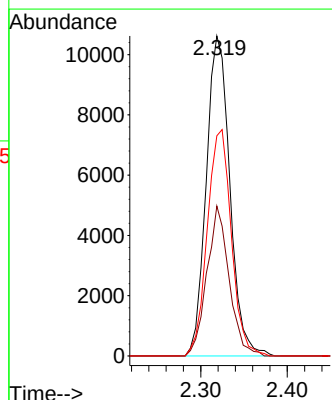
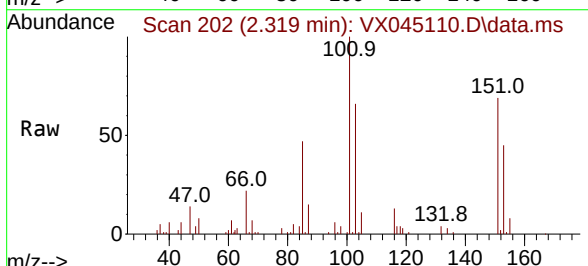
Instrument :
MSVOA_X
ClientSampleId :

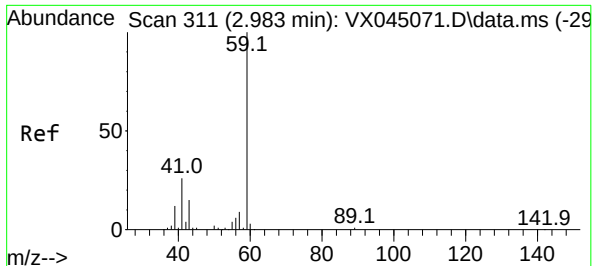
Tgt Ion: 64 Resp: 177
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.186 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion:101 Resp: 20109
Ion Ratio Lower Upper
101 100
85 44.2 36.2 54.4
151 72.2 56.4 84.6

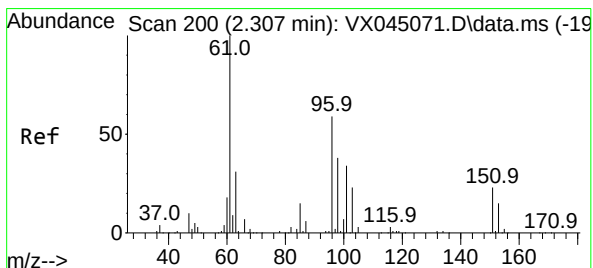
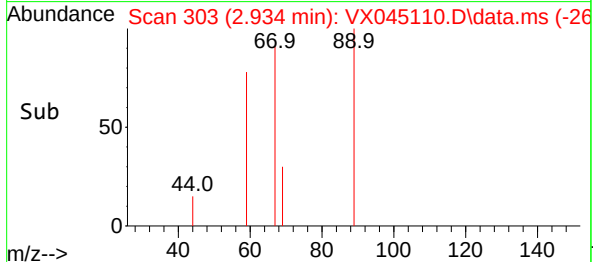
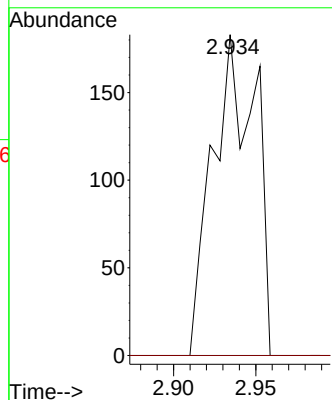
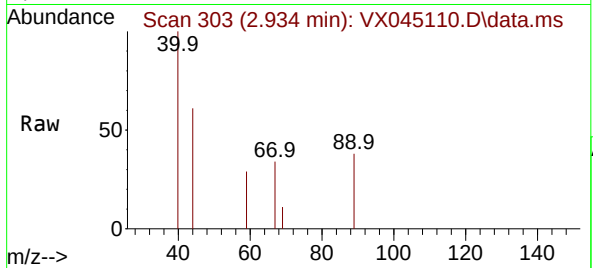




#11
Tert butyl alcohol
Concen: 1.400 ug/l
RT: 2.934 min Scan# 30
Delta R.T. -0.049 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

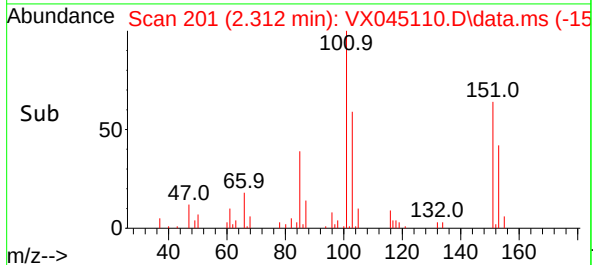
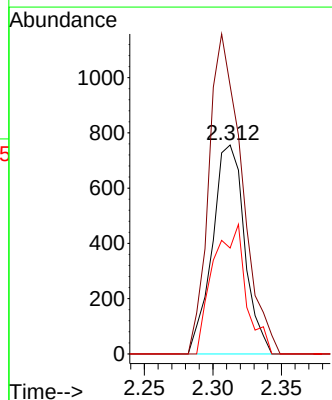
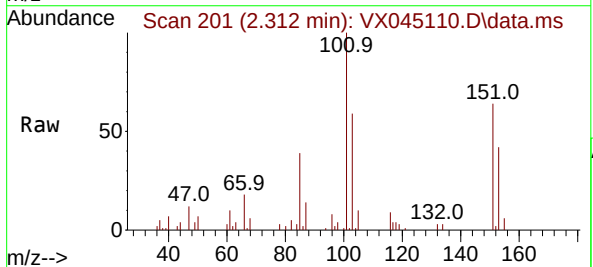
Instrument :
MSVOA_X
ClientSampleId :

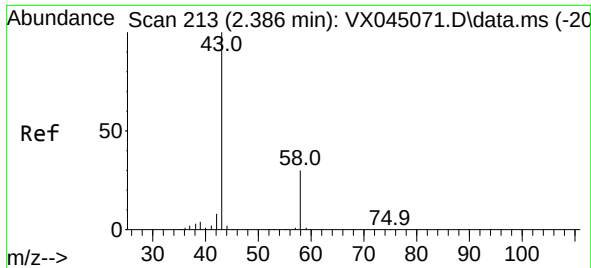
Tgt Ion: 59 Resp: 329
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#12
1,1-Dichloroethene
Concen: 1.289 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 96 Resp: 1235
Ion Ratio Lower Upper
96 100
61 128.4 134.6 202.0#
98 50.7 51.0 76.6#

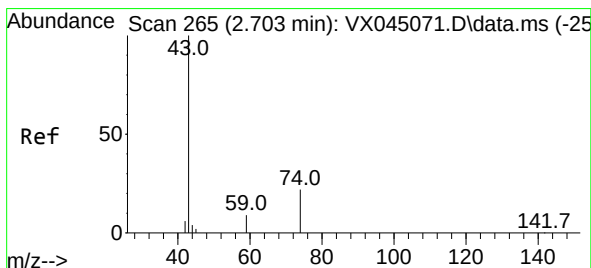
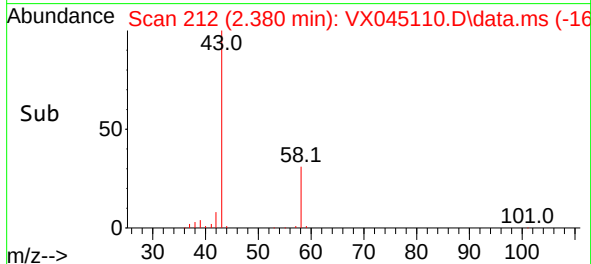
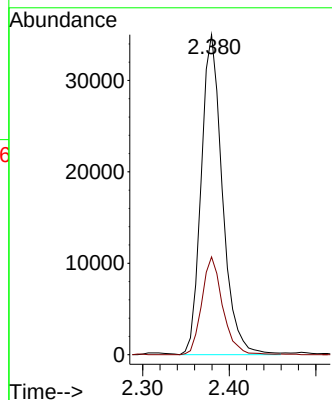
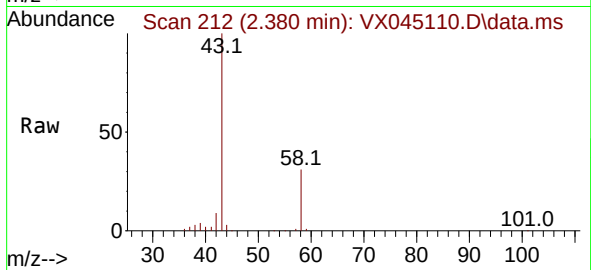




#16
Acetone
Concen: 103.679 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

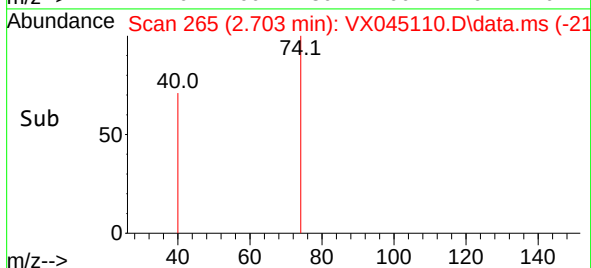
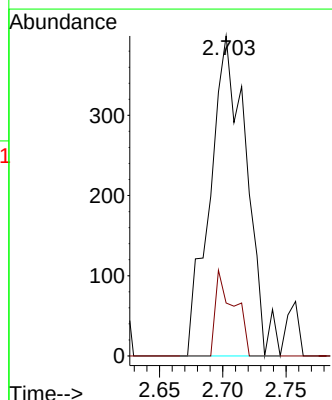
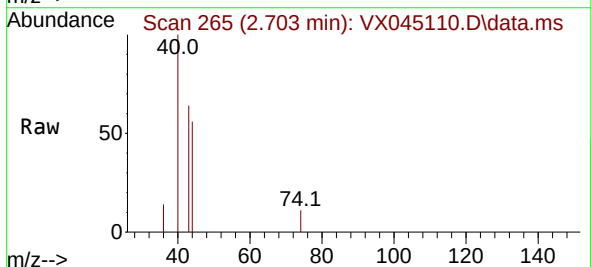
Instrument :
MSVOA_X
ClientSampleId :

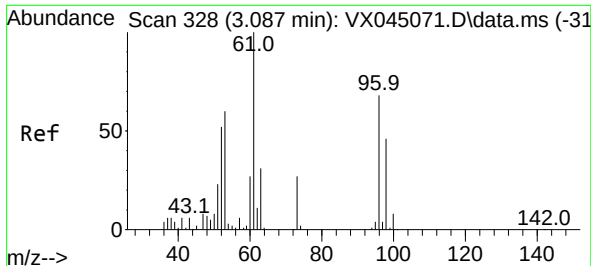
Tgt Ion: 43 Resp: 59672
Ion Ratio Lower Upper
43 100
58 30.5 24.2 36.4



#18
Methyl Acetate
Concen: 0.576 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

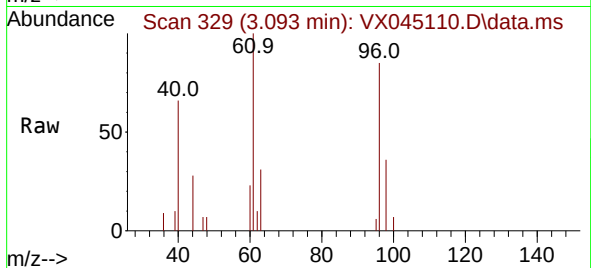
Tgt Ion: 43 Resp: 798
Ion Ratio Lower Upper
43 100
74 13.8 17.4 26.2#



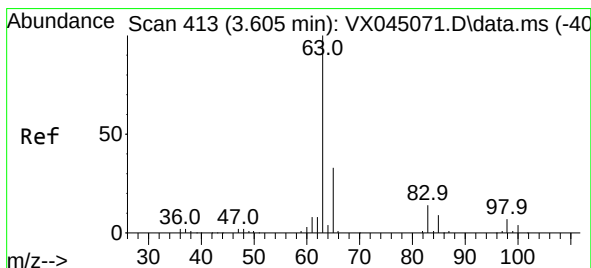
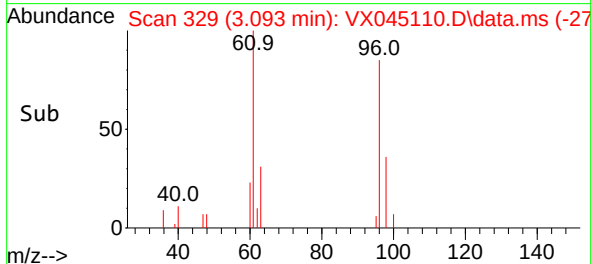
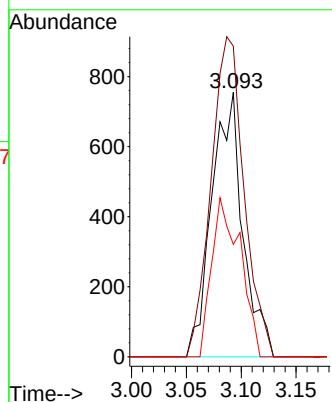


#21
trans-1,2-Dichloroethene
Concen: 1.570 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Instrument :
MSVOA_X
ClientSampleId :

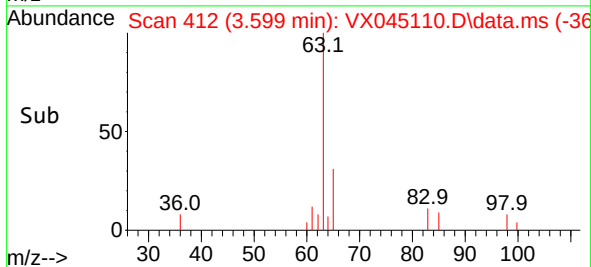
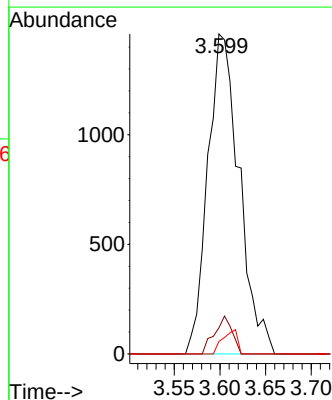
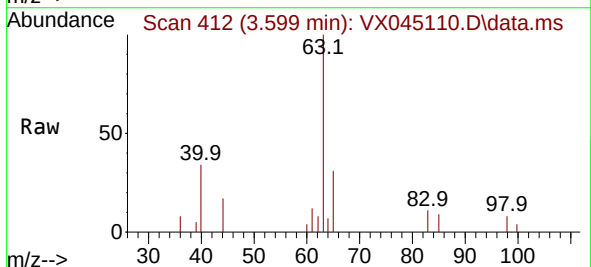


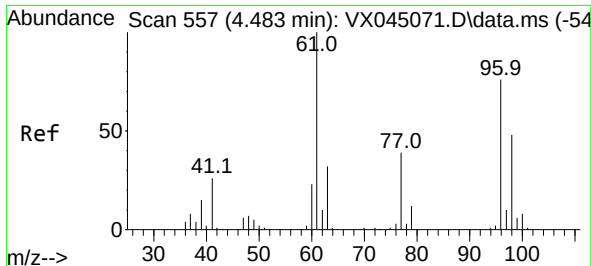
Tgt Ion: 96 Resp: 1486
Ion Ratio Lower Upper
96 100
61 117.5 117.0 175.4
98 42.5 53.4 80.2#



#24
1,1-Dichloroethane
Concen: 1.800 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

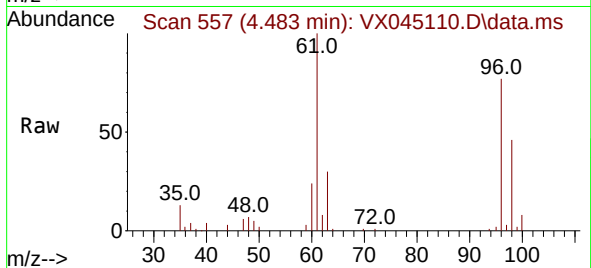
Tgt Ion: 63 Resp: 3500
Ion Ratio Lower Upper
63 100
98 8.2 3.4 10.2
100 3.9 2.1 6.5



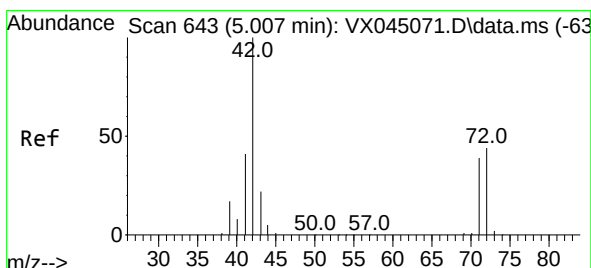
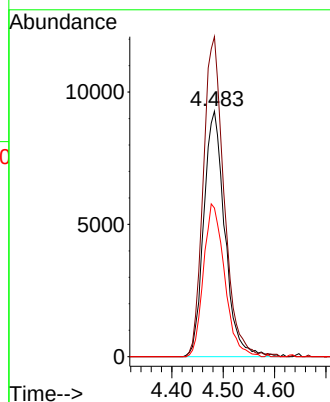
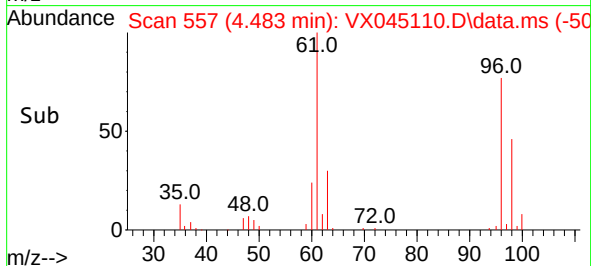


#27
 cis-1,2-Dichloroethene
 Concen: 22.597 ug/l
 RT: 4.483 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VX045110.D
 Acq: 03 Mar 2025 14:09

Instrument :
 MSVOA_X
 ClientSampleId :

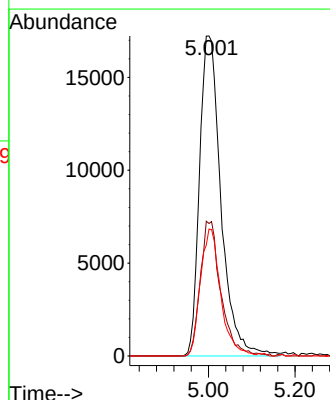
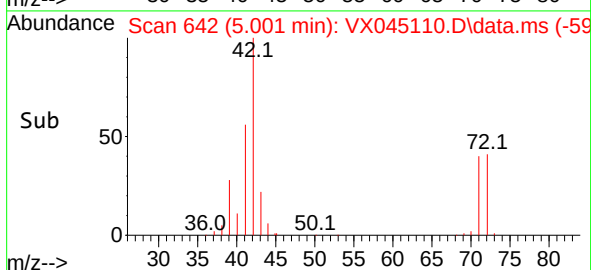
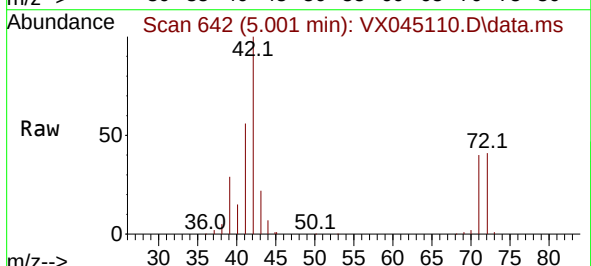


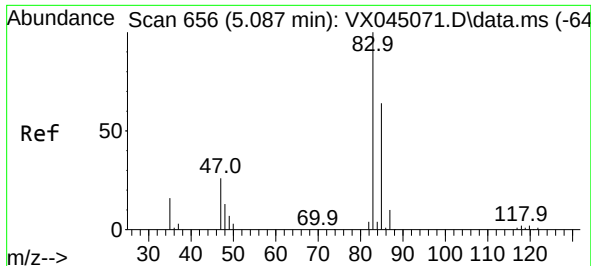
Tgt Ion:	96	Resp:	26409
Ion	Ratio	Lower	Upper
96	100		
61	128.8	0.0	283.2
98	62.1	0.0	128.0



#29
 Tetrahydrofuran
 Concen: 102.083 ug/l
 RT: 5.001 min Scan# 642
 Delta R.T. -0.006 min
 Lab File: VX045110.D
 Acq: 03 Mar 2025 14:09

Tgt Ion:	42	Resp:	59391
Ion	Ratio	Lower	Upper
42	100		
72	40.4	34.1	51.1
71	37.5	31.4	47.0

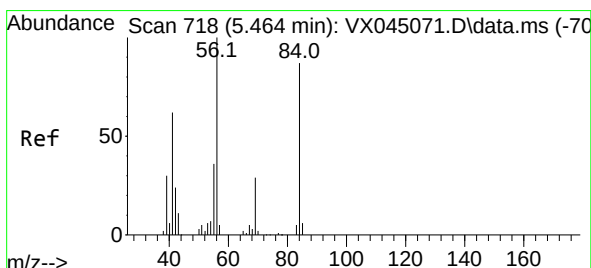
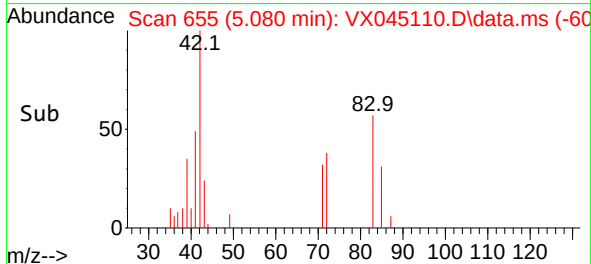
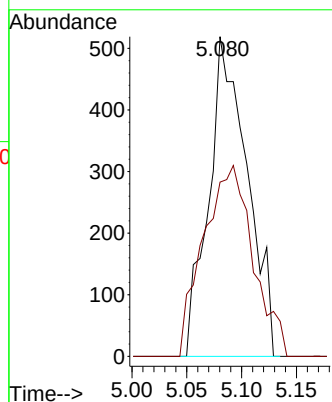
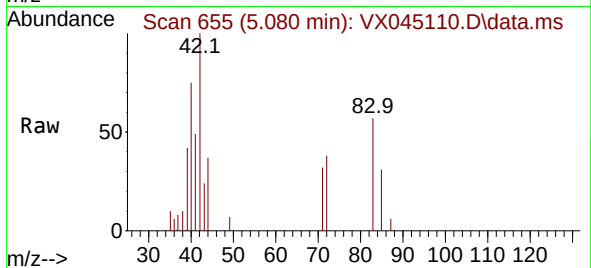




#30
Chloroform
Concen: 0.656 ug/l
RT: 5.080 min Scan# 611
Delta R.T. -0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

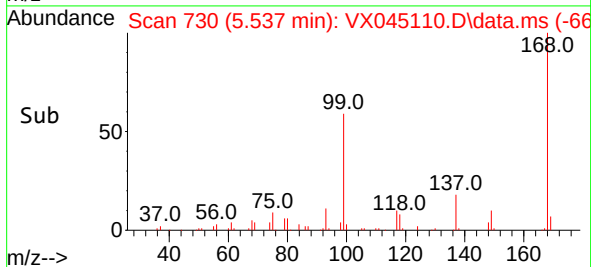
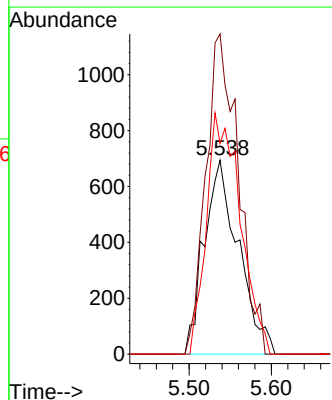
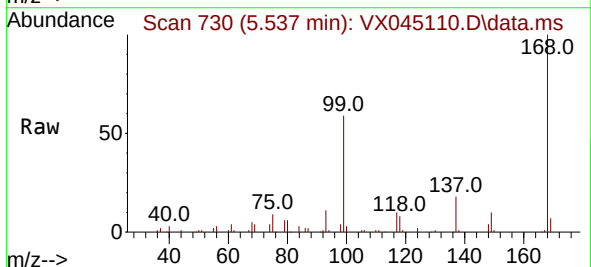
Instrument :
MSVOA_X
ClientSampleId :

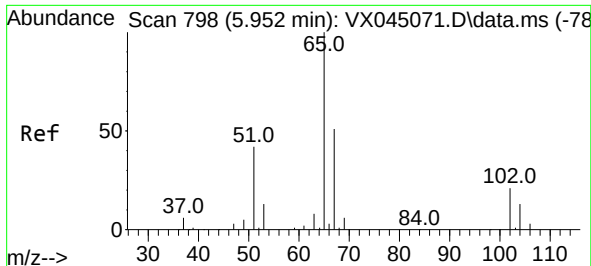
Tgt Ion: 83 Resp: 1268
Ion Ratio Lower Upper
83 100
85 54.5 51.4 77.2



#31
Cyclohexane
Concen: 1.193 ug/l
RT: 5.537 min Scan# 730
Delta R.T. 0.073 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 56 Resp: 2014
Ion Ratio Lower Upper
56 100
69 165.1 23.4 35.2#
84 108.6 69.4 104.2#





#33

1,2-Dichloroethane-d4

Concen: 50.752 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045110.D

Acq: 03 Mar 2025 14:09

Instrument :

MSVOA_X

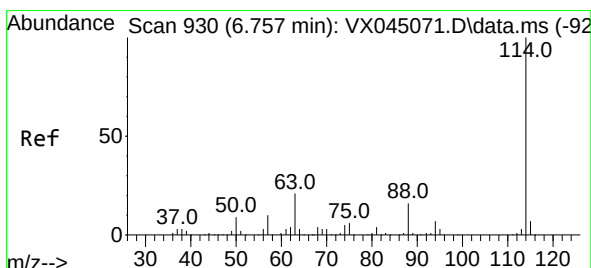
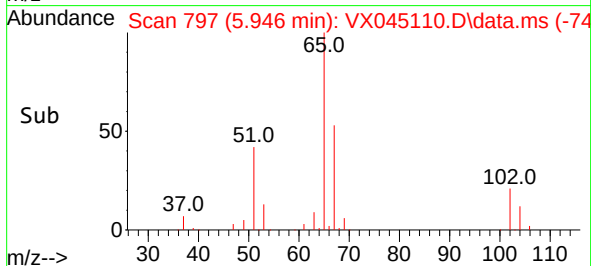
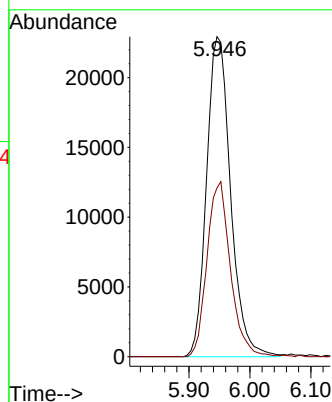
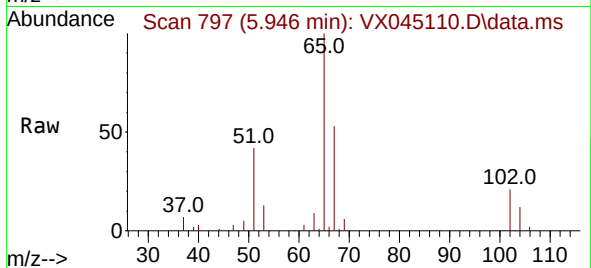
ClientSampleId :

Tgt Ion: 65 Resp: 62957

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045110.D

Acq: 03 Mar 2025 14:09

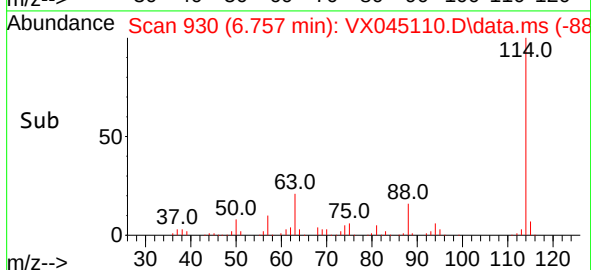
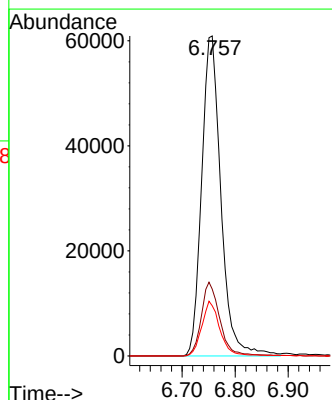
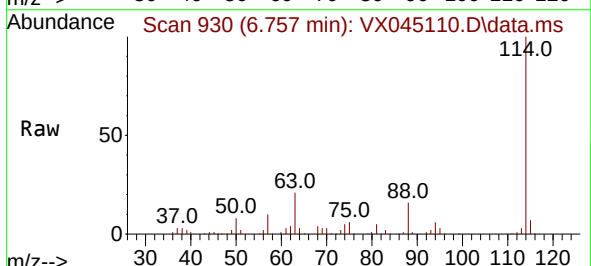
Tgt Ion: 114 Resp: 153844

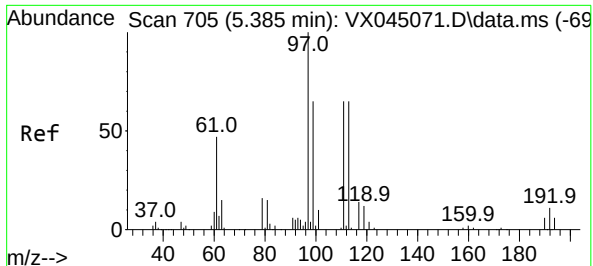
Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.8

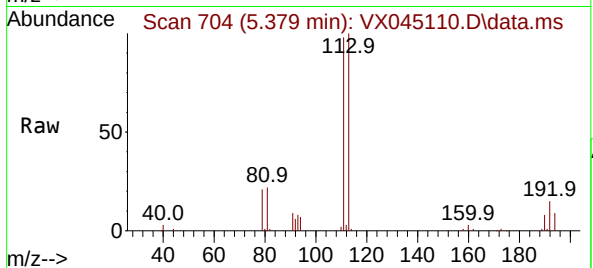
88 15.7 0.0 32.8



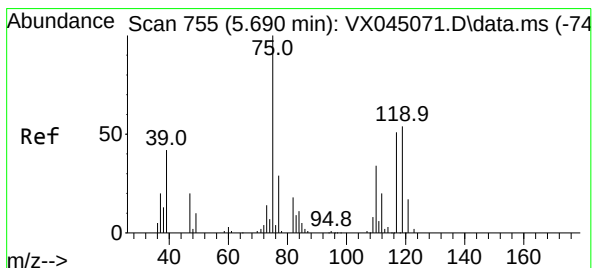
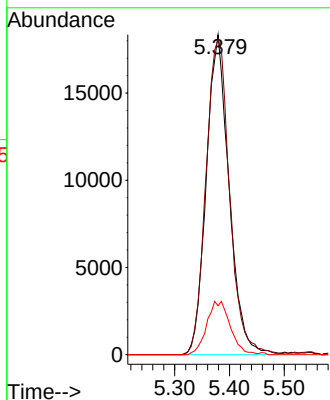
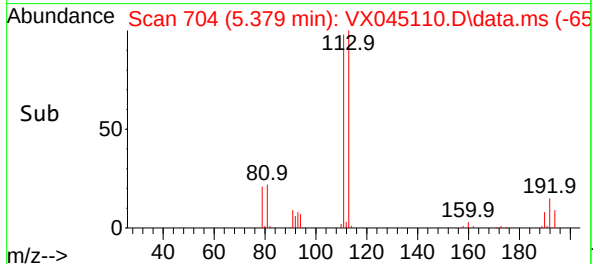


#35
Dibromofluoromethane
Concen: 51.455 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Instrument :
MSVOA_X
ClientSampleId :

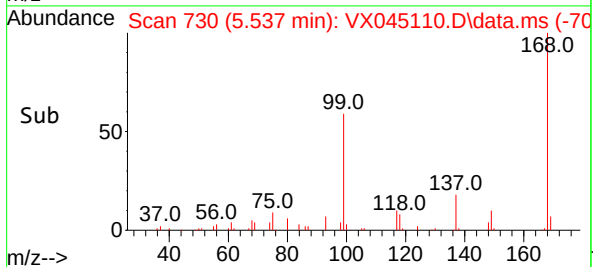
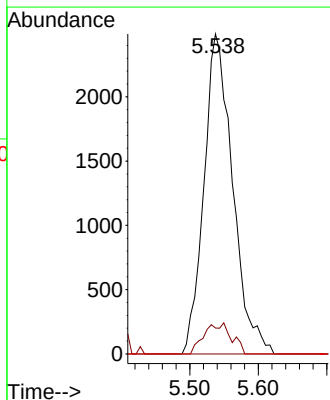
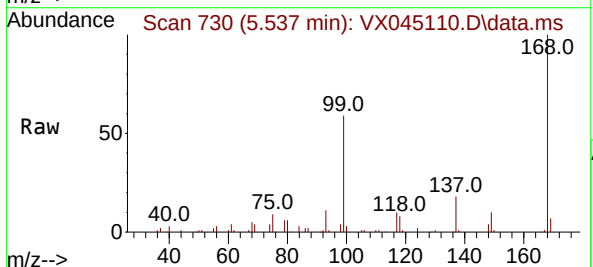


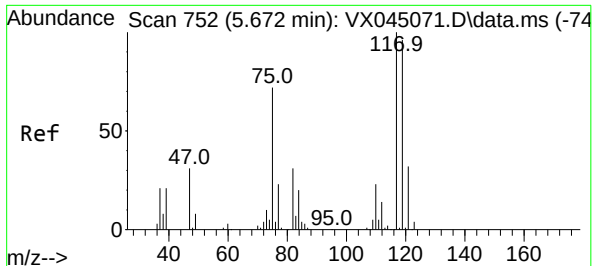
Tgt Ion:113 Resp: 52933
Ion Ratio Lower Upper
113 100
111 102.5 81.8 122.6
192 17.2 14.3 21.5



#36
1,1-Dichloropropene
Concen: 5.133 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.153 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

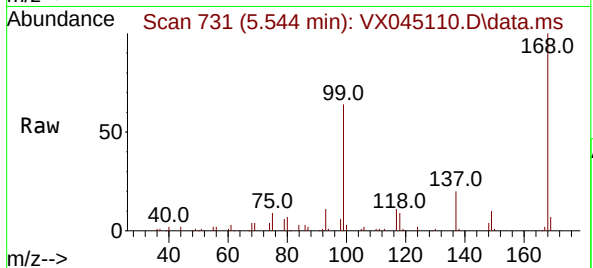
Tgt Ion: 75 Resp: 7242
Ion Ratio Lower Upper
75 100
110 9.2 16.9 50.6#
77 0.0 24.5 36.7#



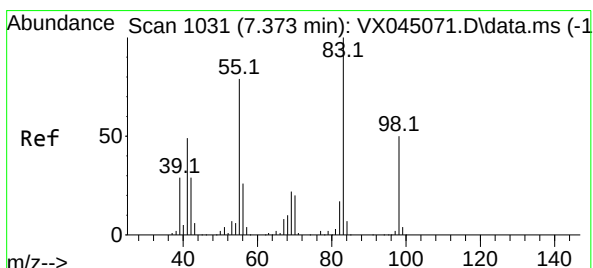
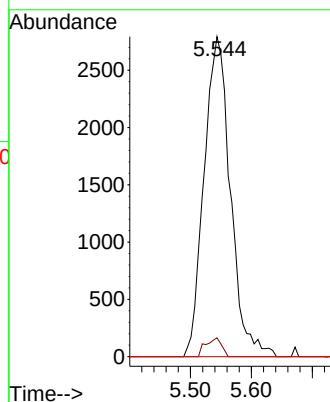
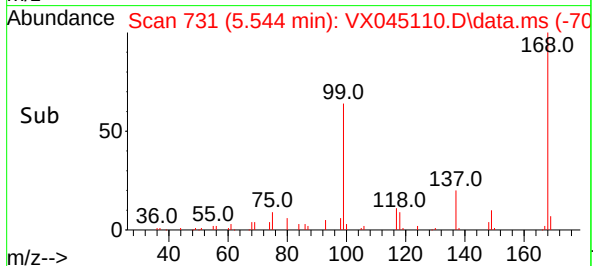


#38
Carbon Tetrachloride
Concen: 5.868 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Instrument :
MSVOA_X
ClientSampleId :

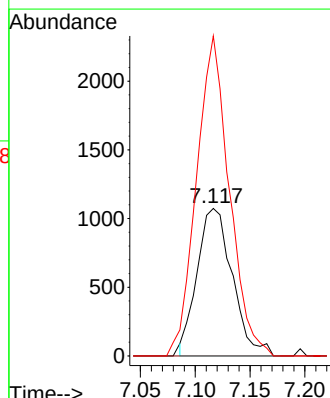
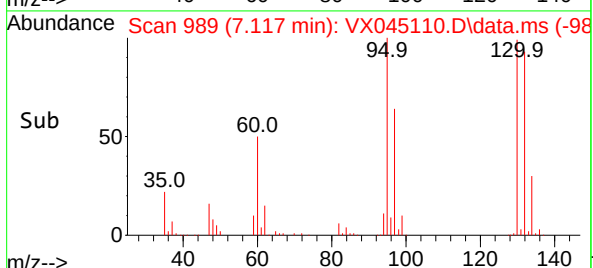
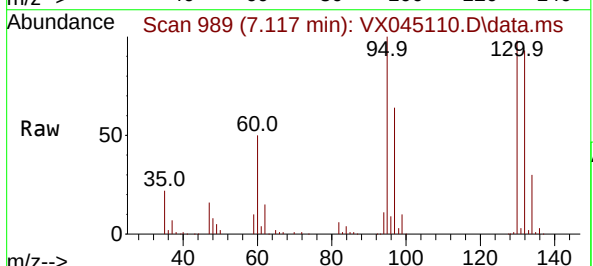


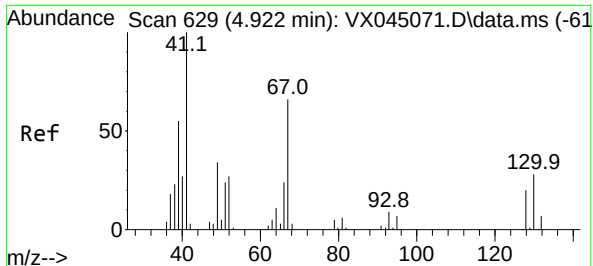
Tgt Ion:117 Resp: 8405
Ion Ratio Lower Upper
117 100
119 5.9 76.7 115.1#
121 0.0 25.5 38.3#



#39
Methylcyclohexane
Concen: 1.417 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.256 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 83 Resp: 2396
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 216.9 39.7 59.5#

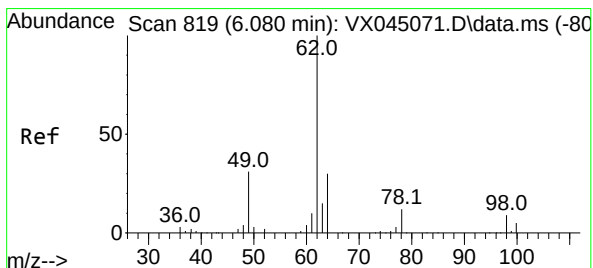
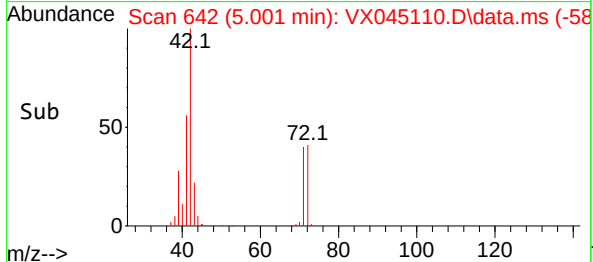
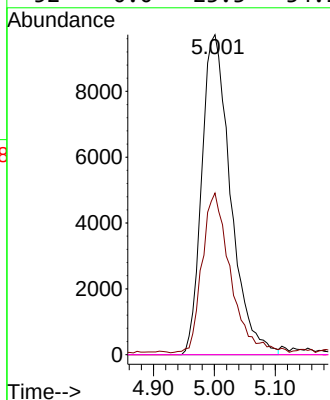
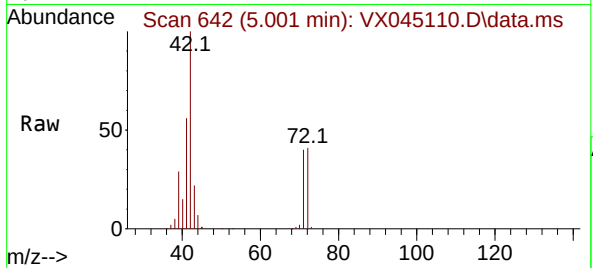




#41
Methacrylonitrile
Concen: 32.525 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.079 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

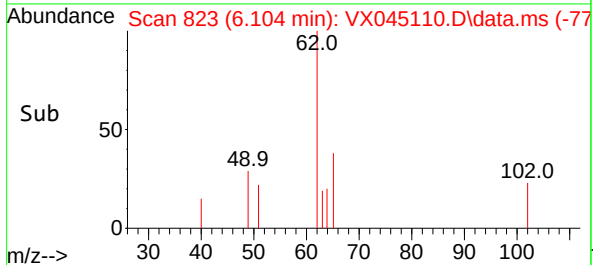
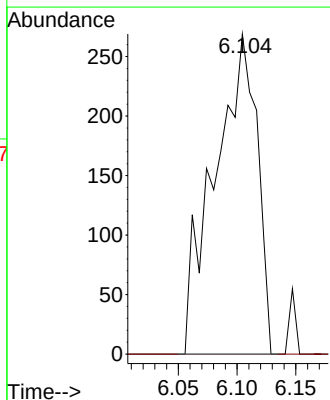
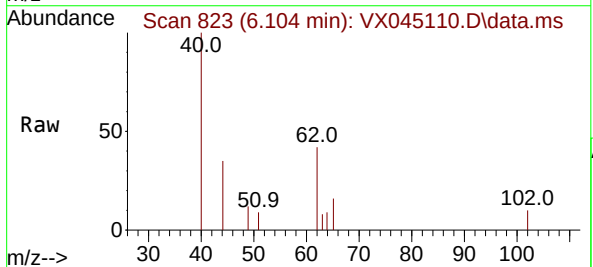
Instrument :
MSVOA_X
ClientSampleId :

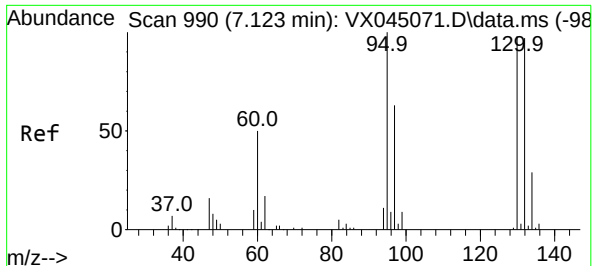
Tgt Ion: 41 Resp: 31971
Ion Ratio Lower Upper
41 100
39 49.1 44.6 67.0
67 0.0 53.9 80.9#
52 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.421 ug/l
RT: 6.104 min Scan# 823
Delta R.T. 0.024 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 62 Resp: 676
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2

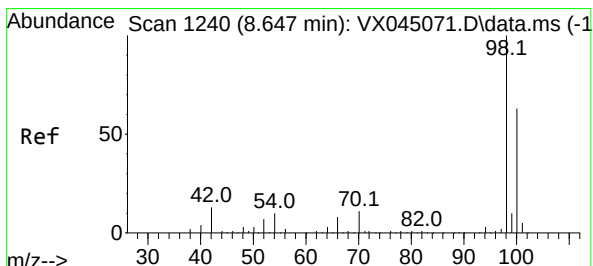
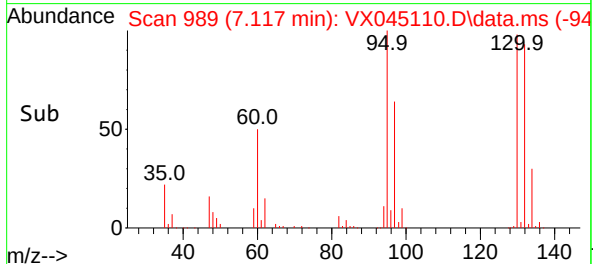
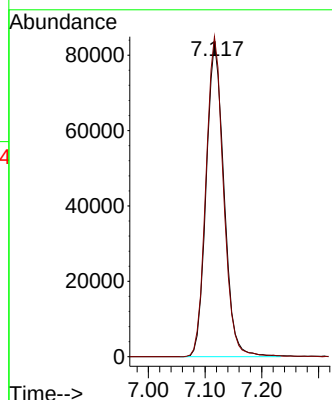
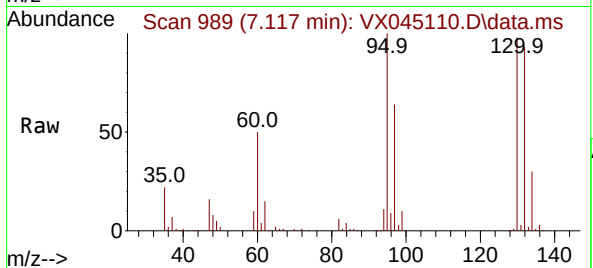




#44
Trichloroethene
Concen: 173.481 ug/l
RT: 7.117 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

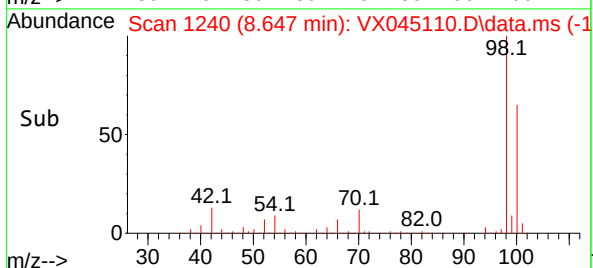
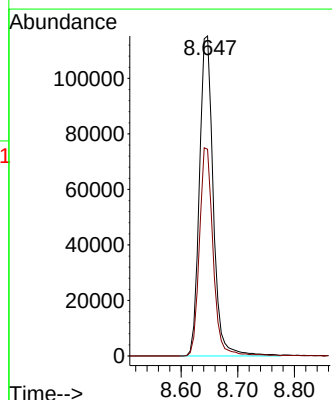
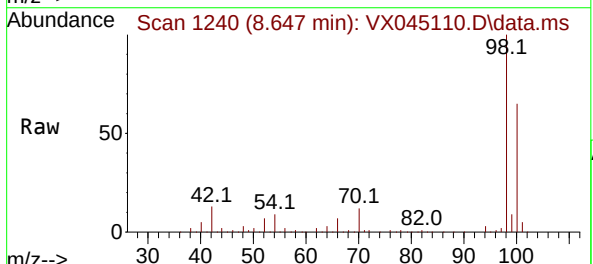
Instrument :
MSVOA_X
ClientSampleId :

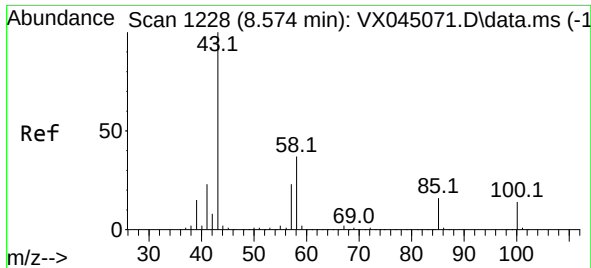
Tgt Ion:130 Resp: 181471
Ion Ratio Lower Upper
130 100
95 101.5 0.0 205.0



#50
Toluene-d8
Concen: 52.332 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 98 Resp: 195171
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0

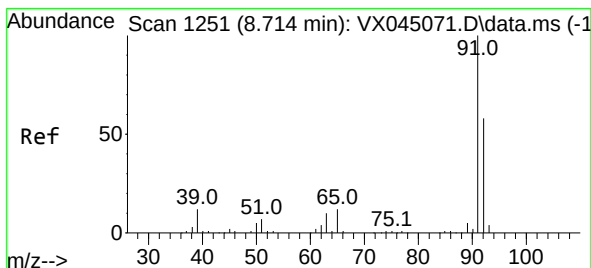
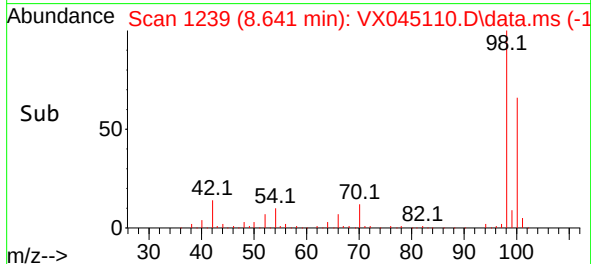
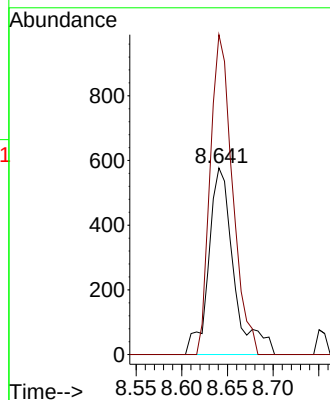
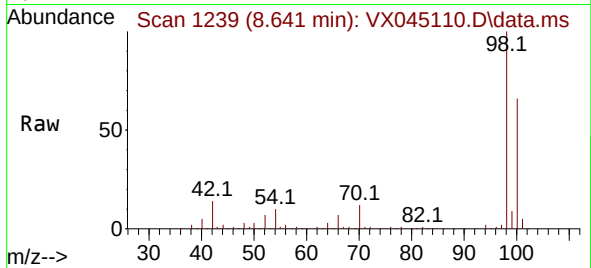




#51
4-Methyl-2-Pentanone
Concen: 0.609 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. 0.067 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

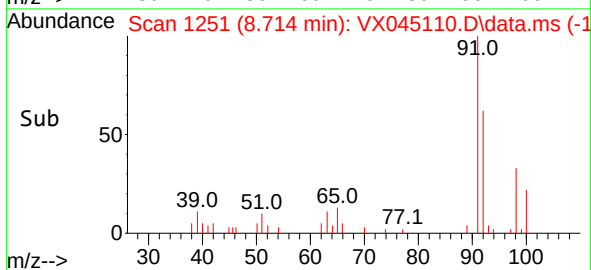
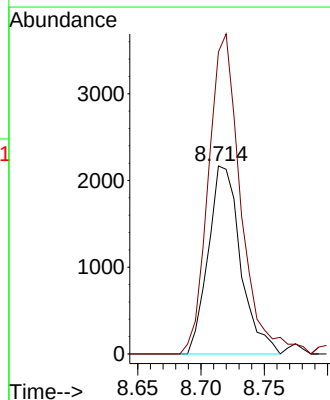
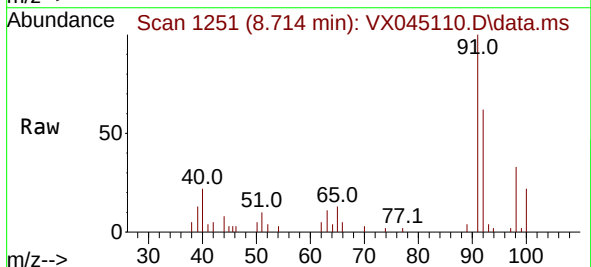
Instrument :
MSVOA_X
ClientSampleId :

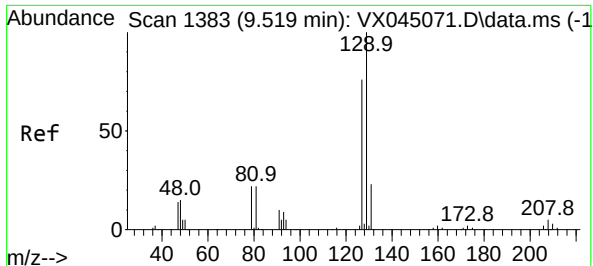
Tgt Ion: 43 Resp: 1099
Ion Ratio Lower Upper
43 100
58 152.3 29.2 43.8#



#52
Toluene
Concen: 1.472 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 92 Resp: 3847
Ion Ratio Lower Upper
92 100
91 170.6 138.9 208.3

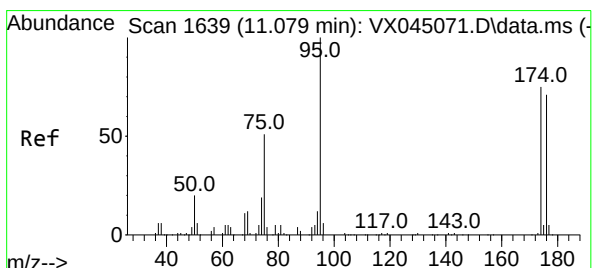
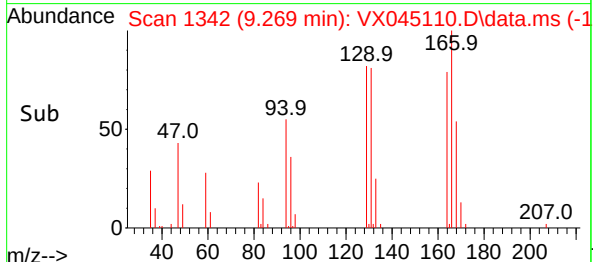
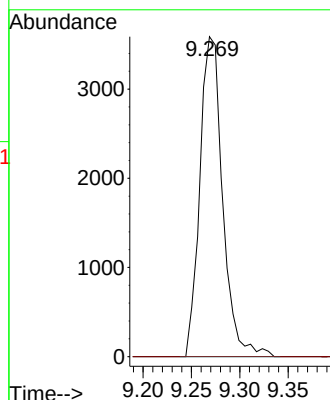
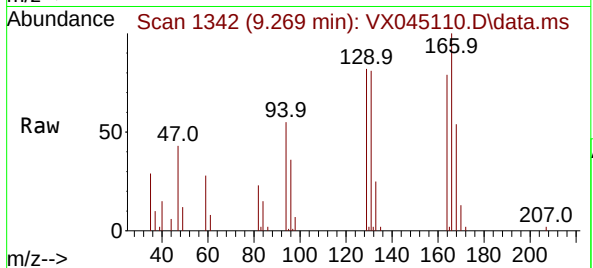




#60
Dibromochloromethane
Concen: 5.243 ug/l
RT: 9.269 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

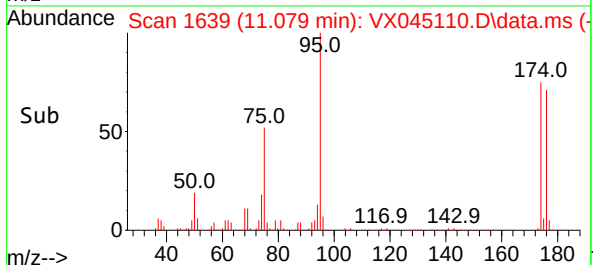
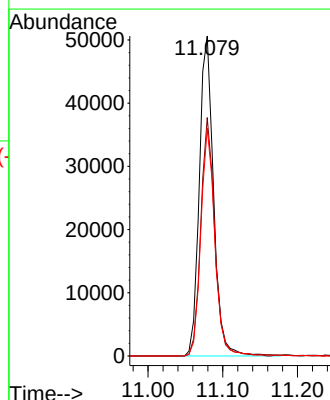
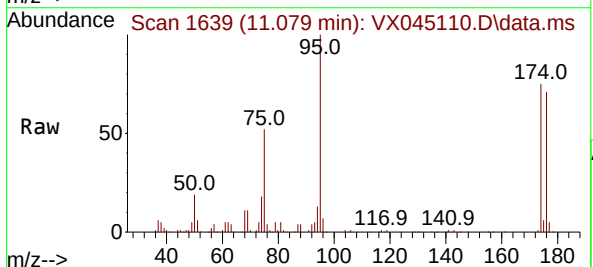
Instrument :
MSVOA_X
ClientSampleId :

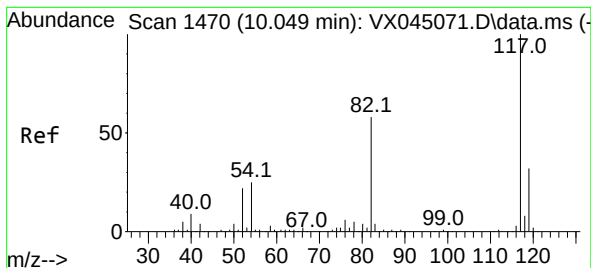
Tgt Ion:129 Resp: 5899
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 54.246 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 95 Resp: 67039
Ion Ratio Lower Upper
95 100
174 72.9 0.0 148.2
176 70.1 0.0 141.4

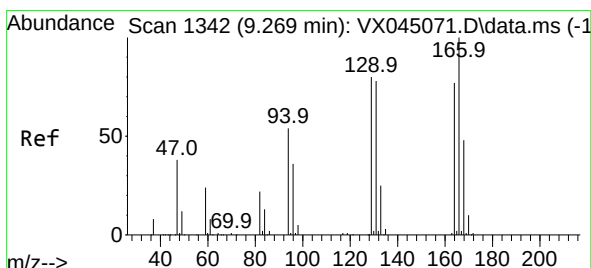
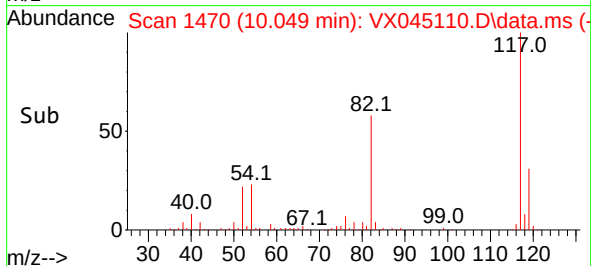
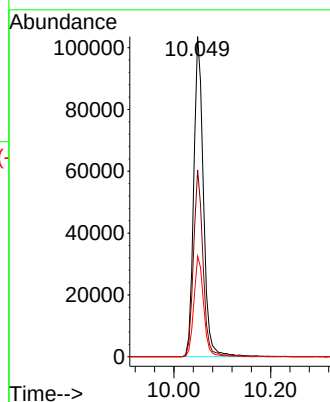
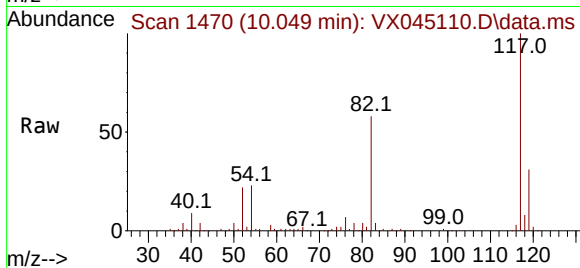




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

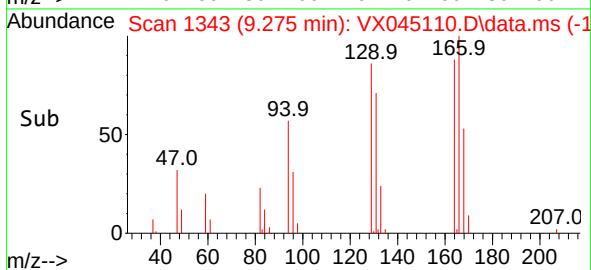
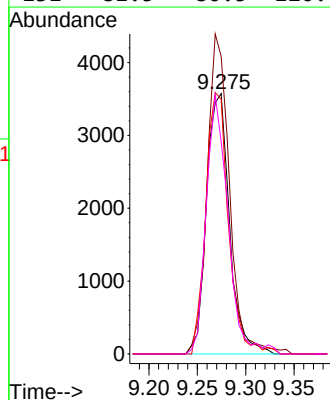
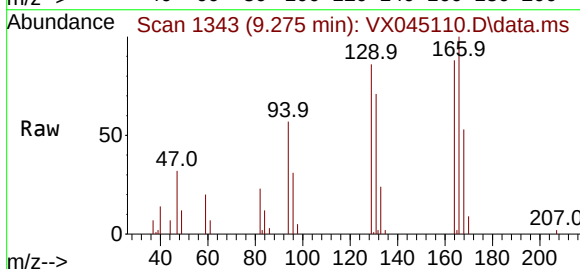
Instrument :
MSVOA_X
ClientSampleId :

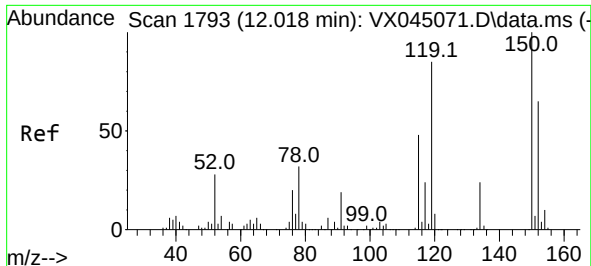
Tgt Ion:117 Resp: 143555
Ion Ratio Lower Upper
117 100
82 58.4 46.3 69.5
119 31.4 25.7 38.5



#64
Tetrachloroethene
Concen: 6.461 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

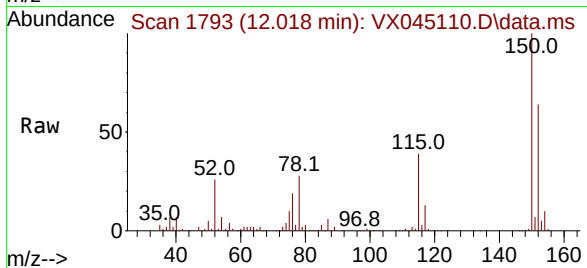
Tgt Ion:164 Resp: 5940
Ion Ratio Lower Upper
164 100
166 114.2 103.6 155.4
129 97.8 82.7 124.1
131 81.5 80.5 120.7



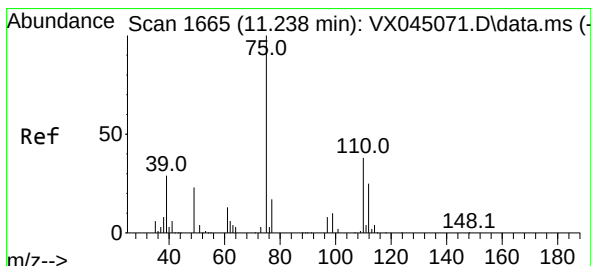
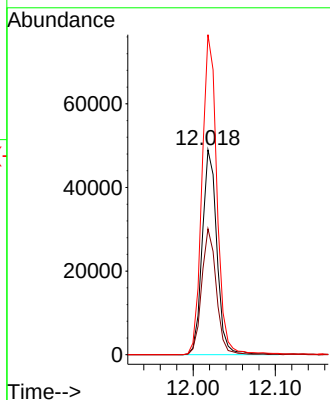
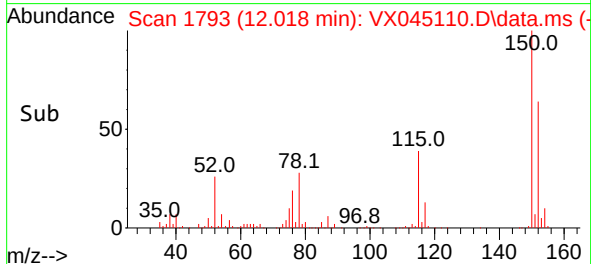


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Instrument :
MSVOA_X
ClientSampleId :

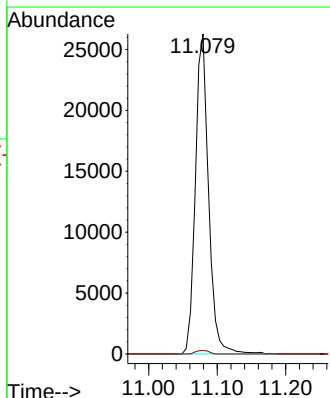
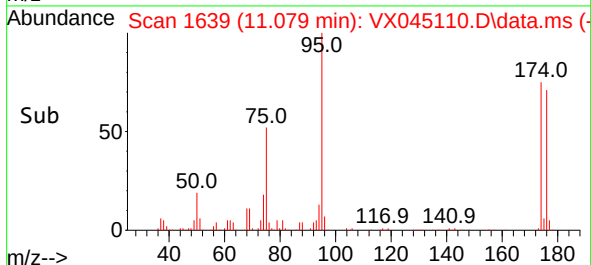
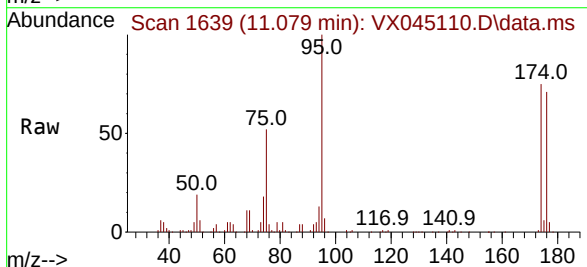


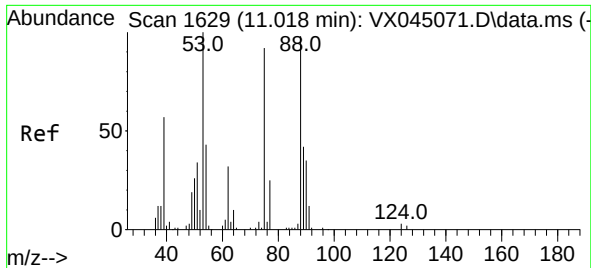
Tgt Ion:152 Resp: 60766
Ion Ratio Lower Upper
152 100
115 61.4 44.2 132.6
150 159.2 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 24.905 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045110.D
Acq: 03 Mar 2025 14:09

Tgt Ion: 75 Resp: 35224
Ion Ratio Lower Upper
75 100
77 1.1 20.7 62.1#

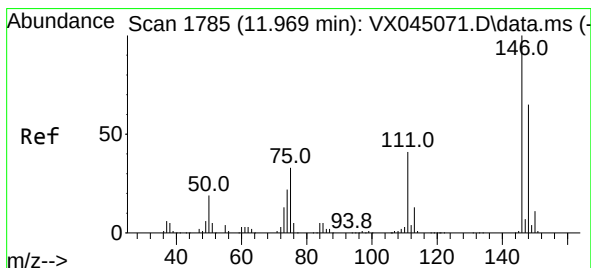
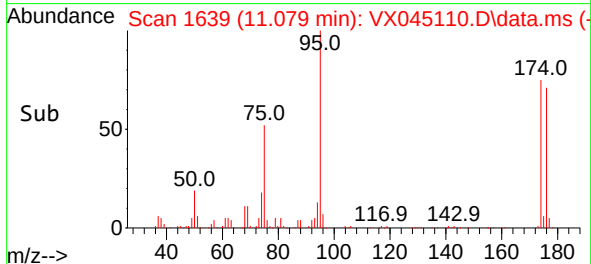
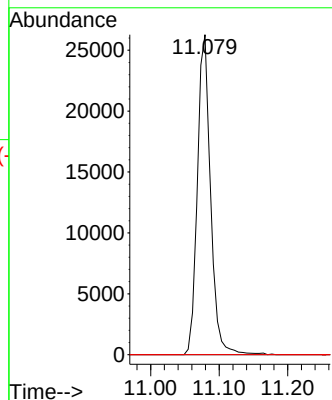
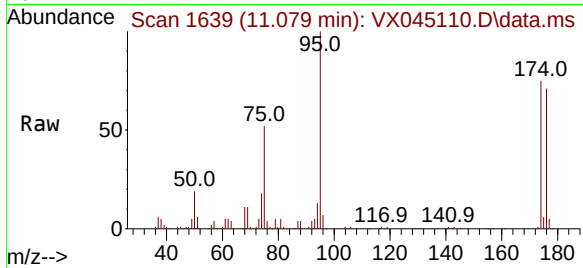




#81
 trans-1,4-Dichloro-2-butene
 Concen: 85.229 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045110.D
 Acq: 03 Mar 2025 14:09

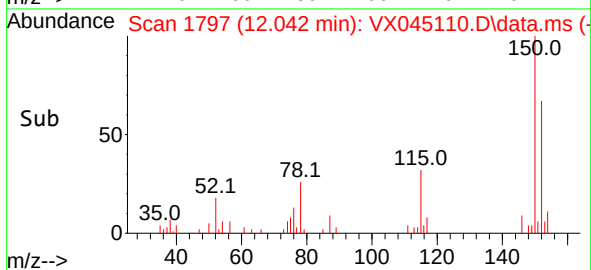
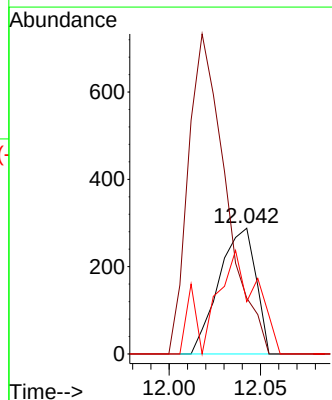
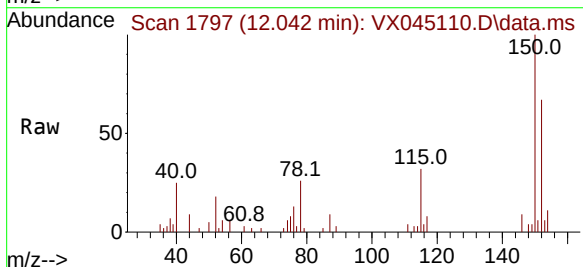
Instrument :
 MSVOA_X
 ClientSampleId :

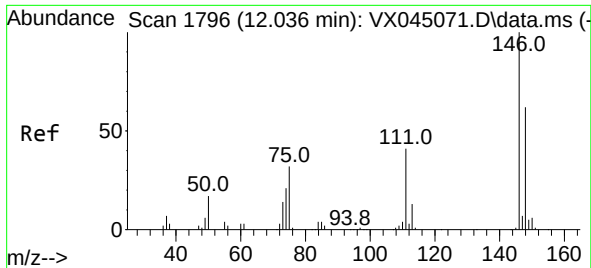
Tgt Ion: 75 Resp: 35224
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.5 132.7#
 89 0.0 36.2 54.4#



#87
 1,3-Dichlorobenzene
 Concen: 0.203 ug/l
 RT: 12.042 min Scan# 1797
 Delta R.T. 0.073 min
 Lab File: VX045110.D
 Acq: 03 Mar 2025 14:09

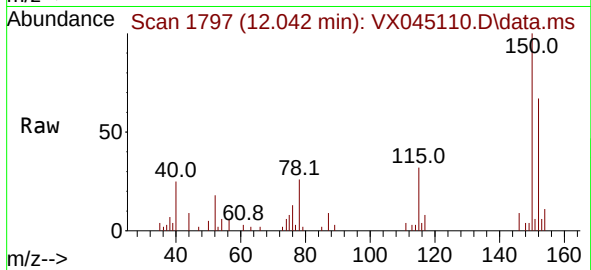
Tgt Ion:146 Resp: 405
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.1 63.4#
 148 81.7 31.9 95.7





#88
 1,4-Dichlorobenzene
 Concen: 0.201 ug/l
 RT: 12.042 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX045110.D
 Acq: 03 Mar 2025 14:09

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:146 Resp: 405
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.2 60.5#
 148 81.7 31.9 95.9

