

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121525\
 Data File : VX048877.D
 Acq On : 15 Dec 2025 14:44
 Operator : JC/MD
 Sample : Q3848-03DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-18B-57.5-121125-FDDL

Quant Time: Dec 16 00:16:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

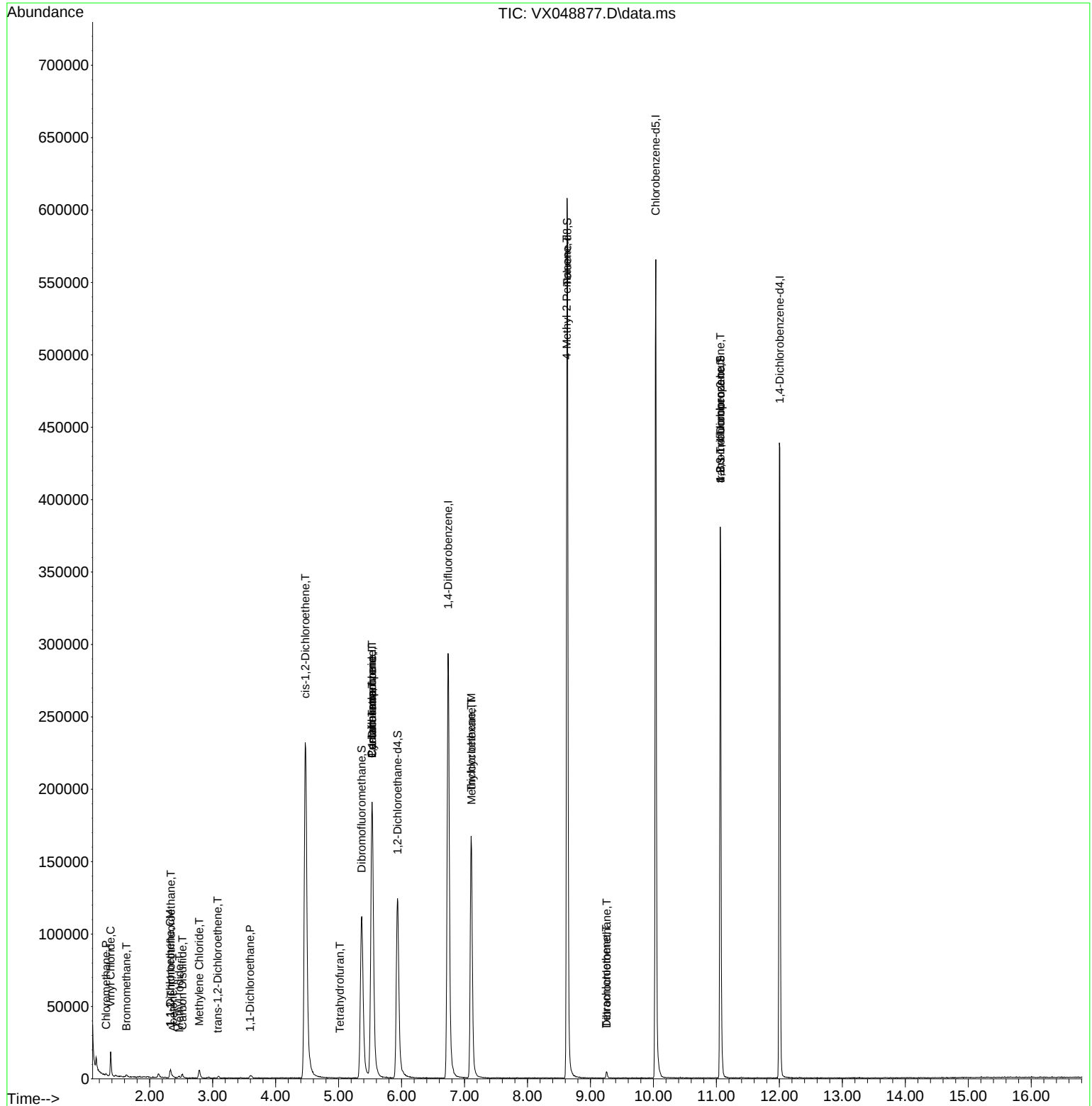
Internal Standards						
1) Pentafluorobenzene	5.532	168	197001	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	326976	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	273805	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	100588	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	137015	51.819	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 103.640%	
35) Dibromofluoromethane	5.367	113	111756	49.639	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.280%	
50) Toluene-d8	8.629	98	387995	49.165	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 98.320%	
62) 4-Bromofluorobenzene	11.061	95	107849	39.631	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 79.260%#	
Target Compounds						
						Qvalue
3) Chloromethane	1.307	50	1074	0.424	ug/l	95
4) Vinyl Chloride	1.380	62	11102	4.116	ug/l	96
5) Bromomethane	1.630	94	838	0.503	ug/l #	79
9) 1,1,2-Trichlorotrifluo...	2.337	101	1313	0.586	ug/l	97
10) Methyl Iodide	2.471	142	1505	0.472	ug/l	94
12) 1,1-Dichloroethene	2.325	96	1356	0.593	ug/l #	71
16) Acetone	2.368	43	1801	1.779	ug/l	90
17) Carbon Disulfide	2.520	76	3624	0.546	ug/l	96
20) Methylene Chloride	2.788	84	2818	1.114	ug/l	92
21) trans-1,2-Dichloroethene	3.081	96	527	0.226	ug/l #	58
24) 1,1-Dichloroethane	3.593	63	2646	0.661	ug/l #	82
27) cis-1,2-Dichloroethene	4.471	96	170219	64.608	ug/l	94
29) Tetrahydrofuran	5.019	42	414	0.363	ug/l #	33
31) Cyclohexane	5.532	56	3878	1.085	ug/l #	1
36) 1,1-Dichloropropene	5.532	75	15742	5.105	ug/l #	49
38) Carbon Tetrachloride	5.532	117	20501	5.870	ug/l #	13
39) Methylcyclohexane	7.111	83	837	0.230	ug/l #	1
44) Trichloroethene	7.104	130	72003	30.188	ug/l	98
51) 4-Methyl-2-Pentanone	8.623	43	1787	0.516	ug/l #	1
60) Dibromochloromethane	9.257	129	968	0.353	ug/l #	11
64) Tetrachloroethene	9.250	164	947	0.474	ug/l	92
76) 1,2,3-Trichloropropane	11.061	75	55259	29.495	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	55259	70.063	ug/l #	3
95) Naphthalene	13.768	128	112	Below Cal	#	69

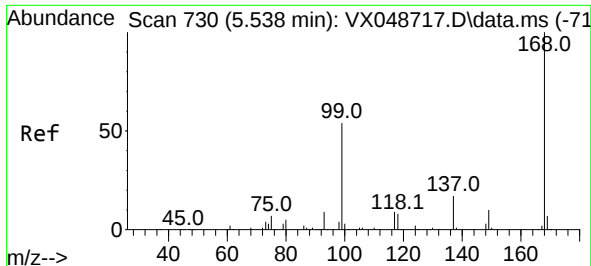
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121525\  
Data File : VX048877.D  
Acq On    : 15 Dec 2025  14:44  
Operator  : JC/MD  
Sample    : Q3848-03DL 10X  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 13    Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

Quant Time: Dec 16 00:16:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

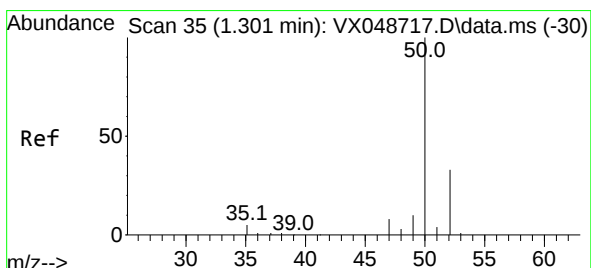
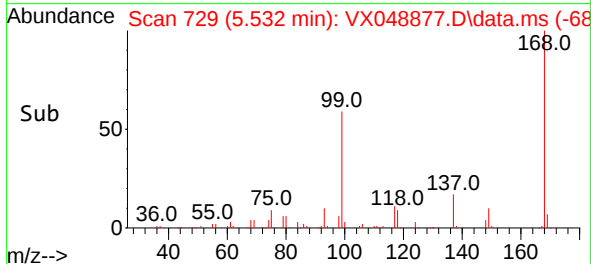
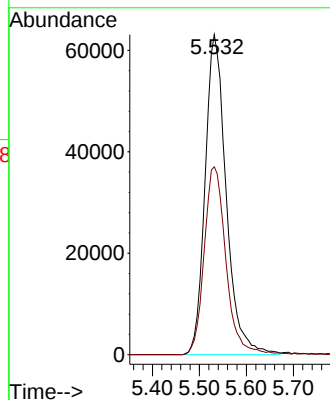
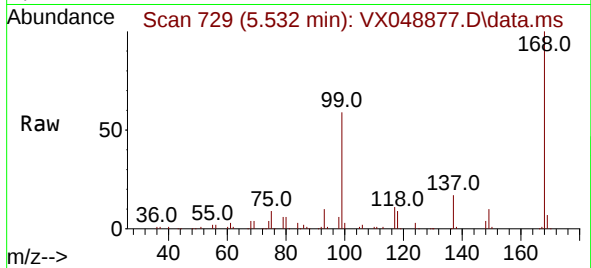




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

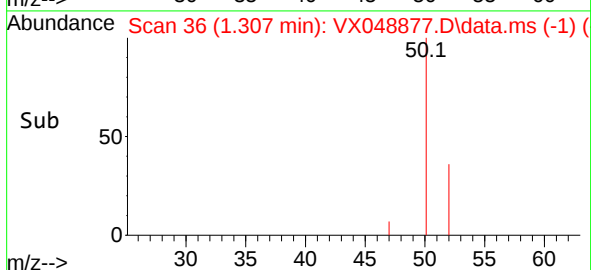
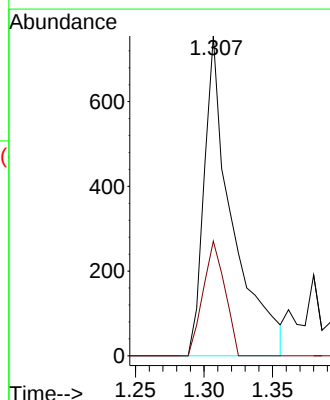
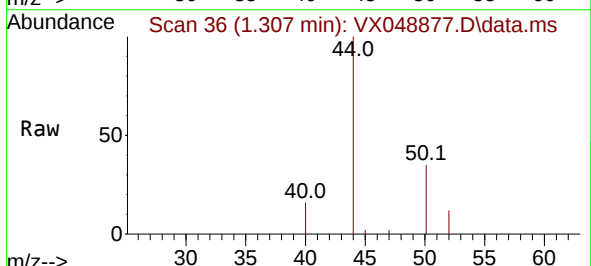
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

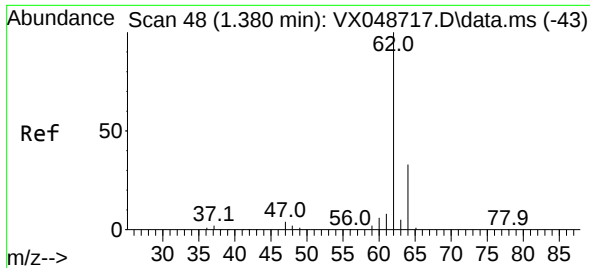
Tgt Ion:168 Resp: 197001
Ion Ratio Lower Upper
168 100
99 58.7 44.2 66.4



#3
Chloromethane
Concen: 0.424 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion: 50 Resp: 1074
Ion Ratio Lower Upper
50 100
52 35.9 26.4 39.6

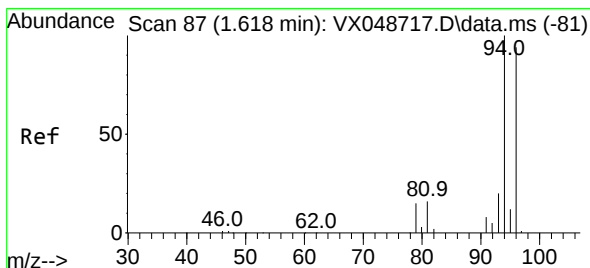
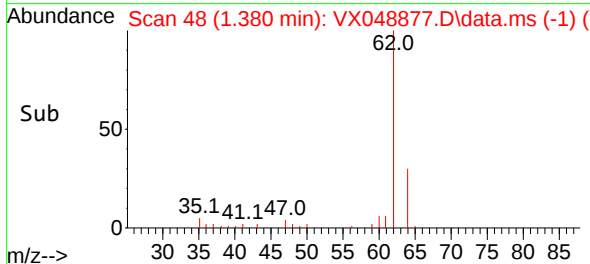
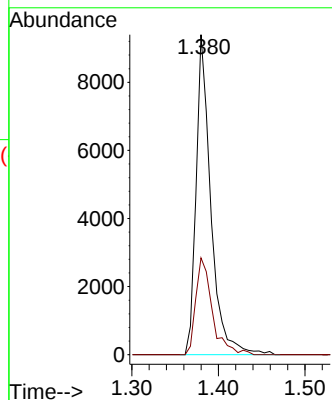
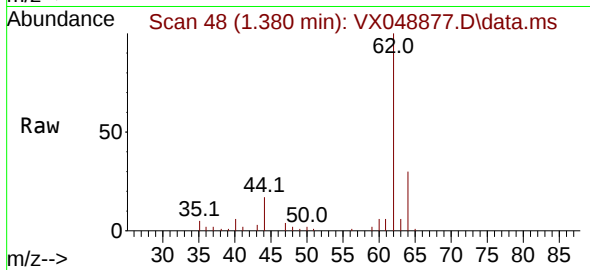




#4
 Vinyl Chloride
 Concen: 4.116 ug/l
 RT: 1.380 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VX048877.D
 Acq: 15 Dec 2025 14:44

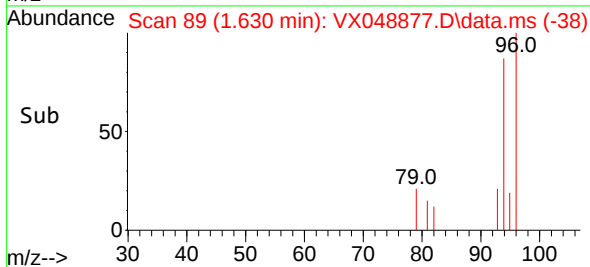
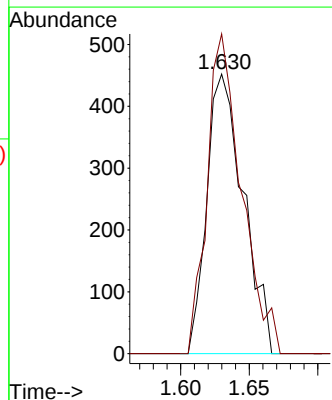
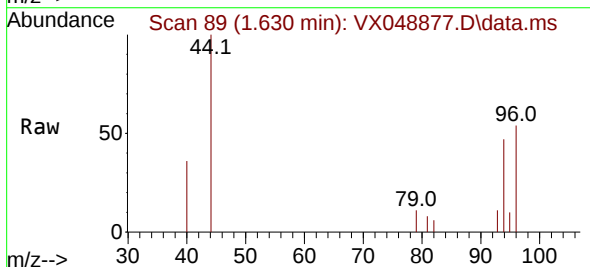
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-18B-57.5-121125-FDDL

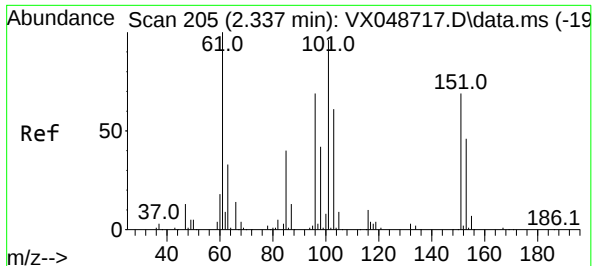
Tgt Ion: 62 Resp: 11102
 Ion Ratio Lower Upper
 62 100
 64 30.3 26.0 39.0



#5
 Bromomethane
 Concen: 0.503 ug/l
 RT: 1.630 min Scan# 89
 Delta R.T. 0.012 min
 Lab File: VX048877.D
 Acq: 15 Dec 2025 14:44

Tgt Ion: 94 Resp: 838
 Ion Ratio Lower Upper
 94 100
 96 114.4 75.2 112.8#

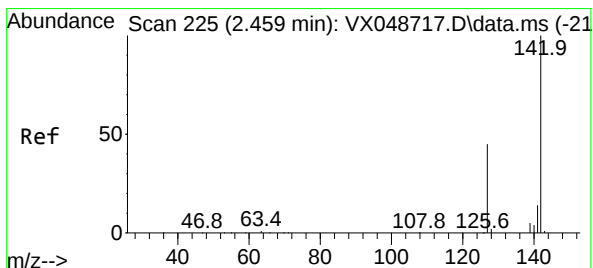
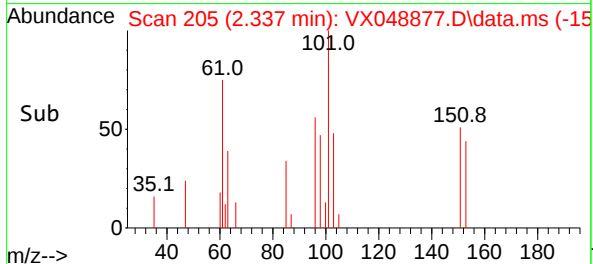
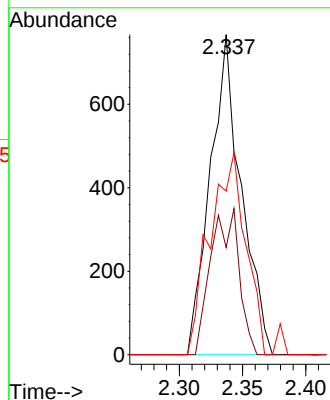
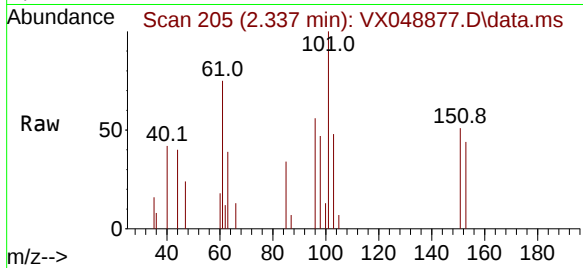




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.586 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

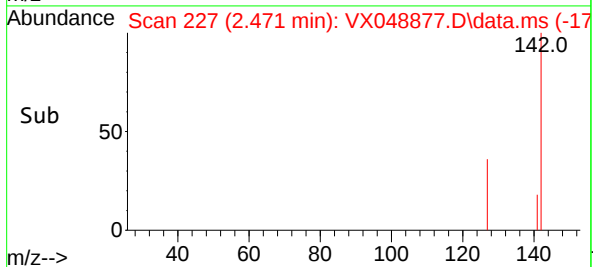
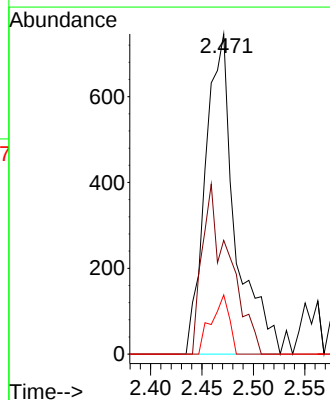
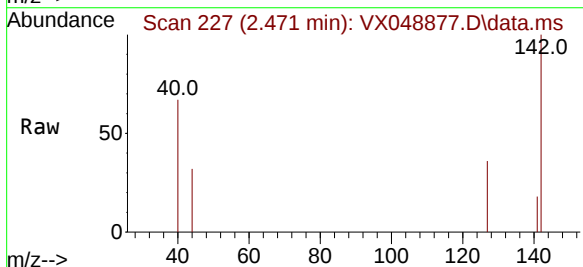
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

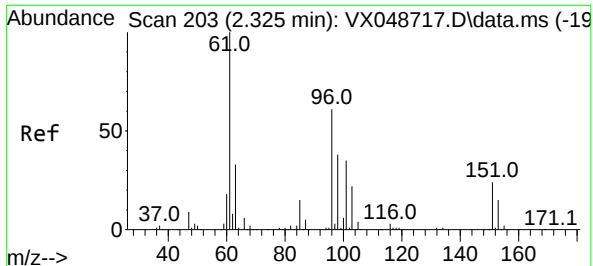
Tgt Ion:	101	Resp:	1313
Ion	Ratio	Lower	Upper
101	100		
85	41.2	34.2	51.2
151	72.6	60.2	90.4



#10
Methyl Iodide
Concen: 0.472 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.012 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion:	142	Resp:	1505
Ion	Ratio	Lower	Upper
142	100		
127	48.4	35.8	53.6
141	11.2	11.1	16.7





#12

1,1-Dichloroethene

Concen: 0.593 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX048877.D

Acq: 15 Dec 2025 14:44

Instrument :

MSVOA_X

ClientSampleId :

MW-18B-57.5-121125-FDDL

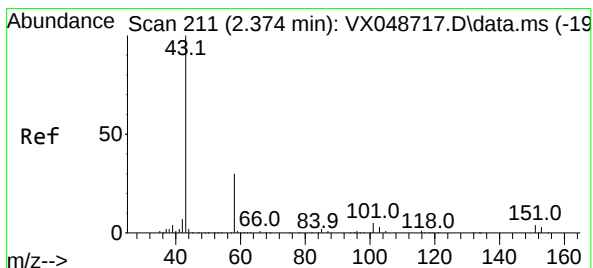
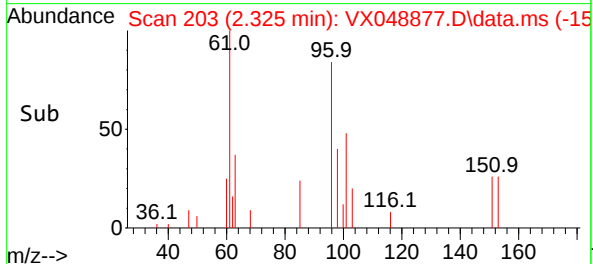
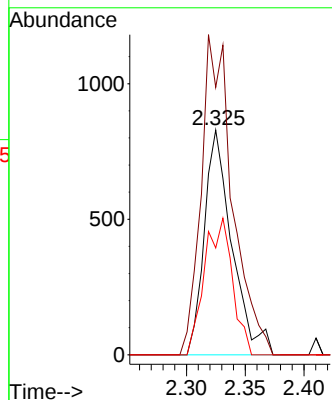
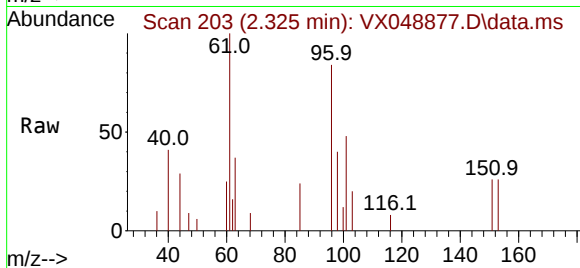
Tgt Ion: 96 Resp: 1356

Ion Ratio Lower Upper

96 100

61 119.1 130.7 196.1#

98 47.5 49.8 74.8#



#16

Acetone

Concen: 1.779 ug/l

RT: 2.368 min Scan# 210

Delta R.T. -0.006 min

Lab File: VX048877.D

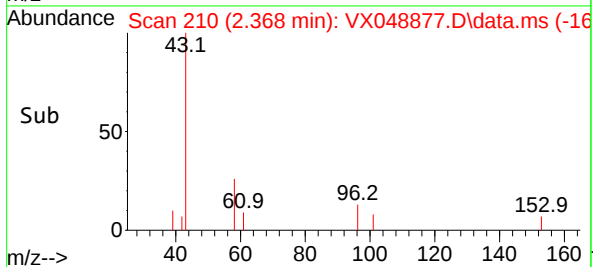
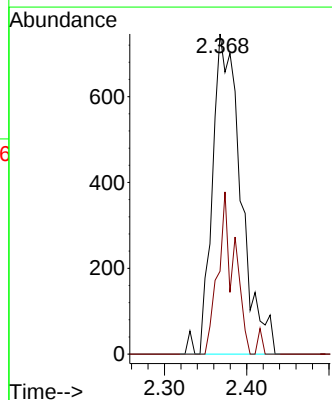
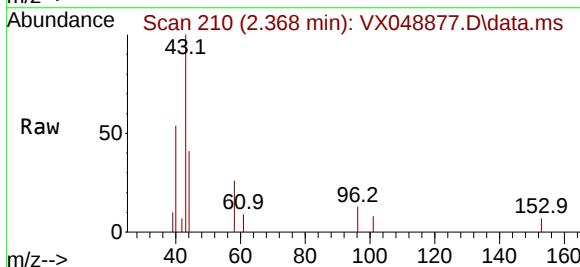
Acq: 15 Dec 2025 14:44

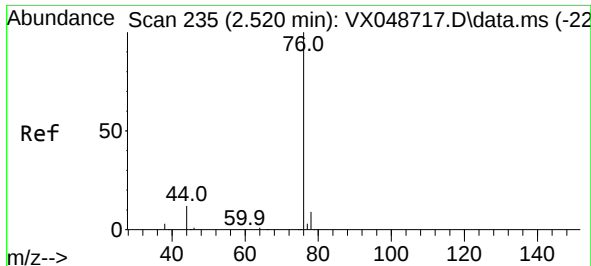
Tgt Ion: 43 Resp: 1801

Ion Ratio Lower Upper

43 100

58 25.9 25.0 37.4





#17

Carbon Disulfide

Concen: 0.546 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX048877.D

Acq: 15 Dec 2025 14:44

Instrument :

MSVOA_X

ClientSampleId :

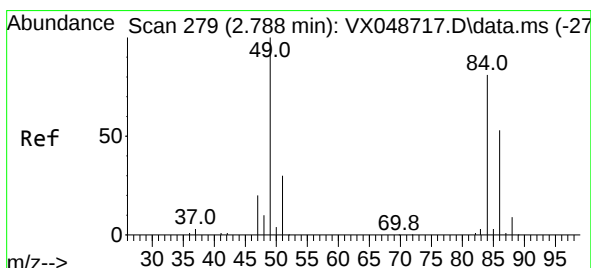
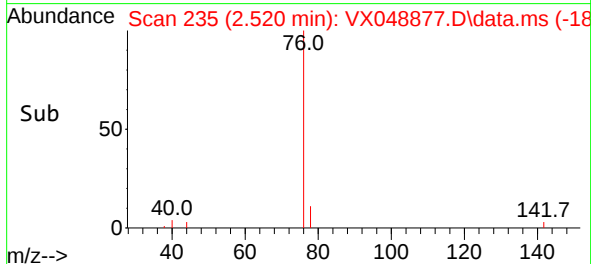
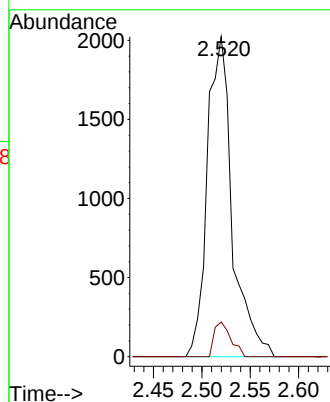
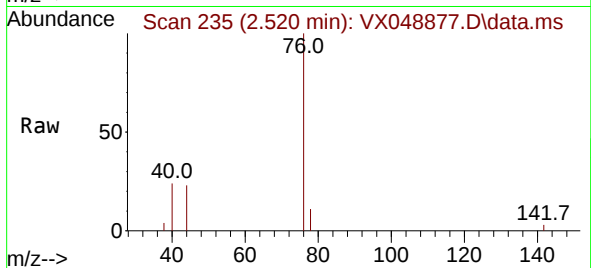
MW-18B-57.5-121125-FDDL

Tgt Ion: 76 Resp: 3624

Ion Ratio Lower Upper

76 100

78 10.8 7.4 11.2



#20

Methylene Chloride

Concen: 1.114 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX048877.D

Acq: 15 Dec 2025 14:44

Tgt Ion: 84 Resp: 2818

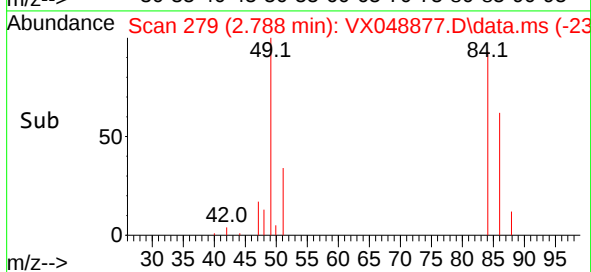
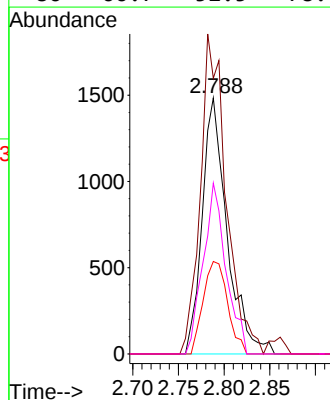
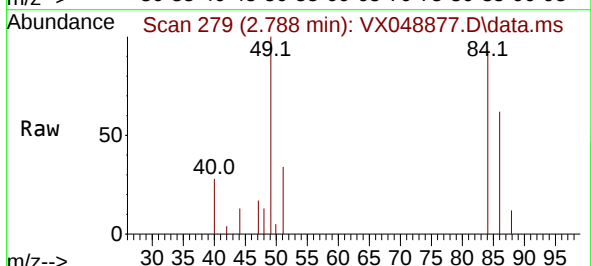
Ion Ratio Lower Upper

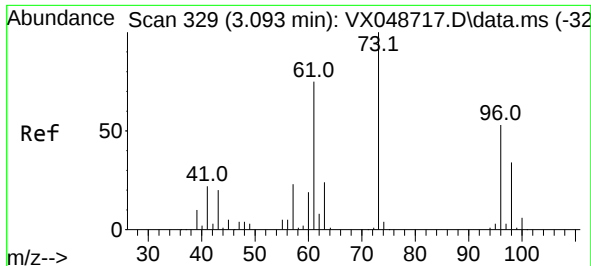
84 100

49 107.7 98.7 148.1

51 36.1 29.4 44.2

86 66.7 52.5 78.7

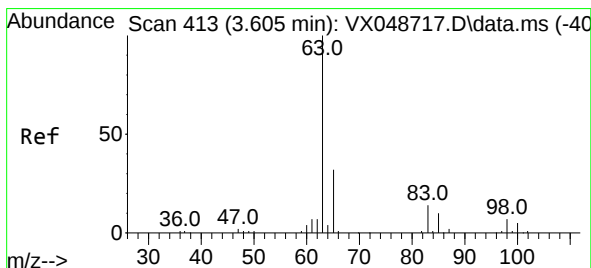
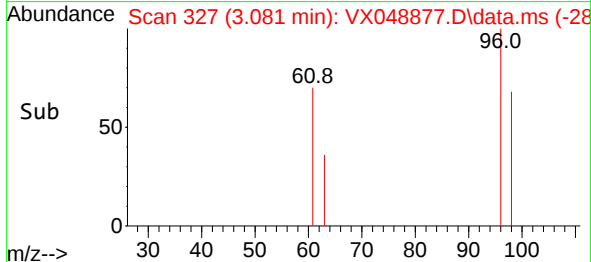
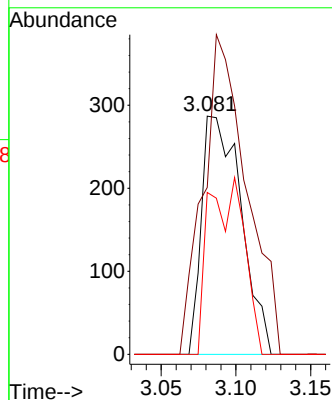
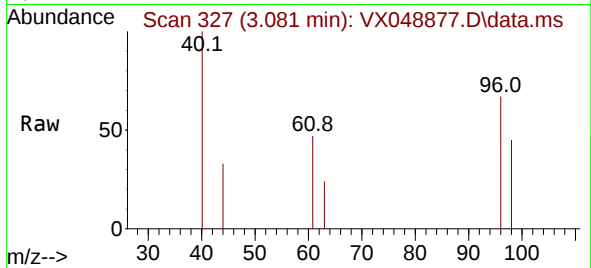




#21
trans-1,2-Dichloroethene
Concen: 0.226 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

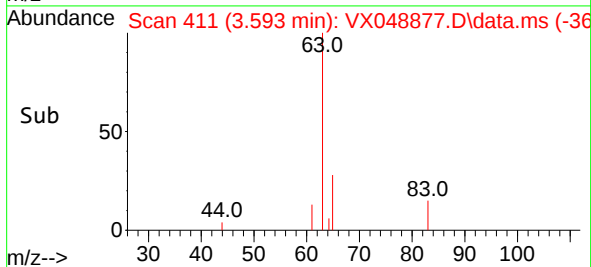
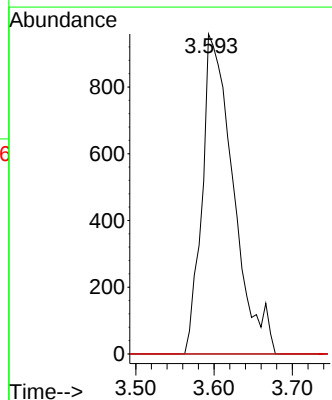
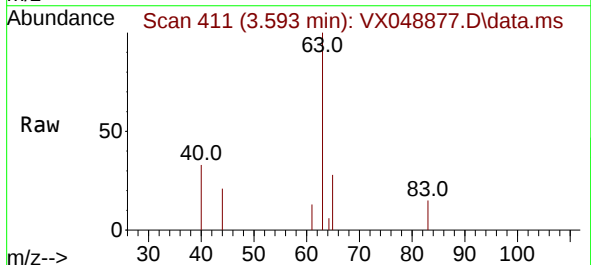
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

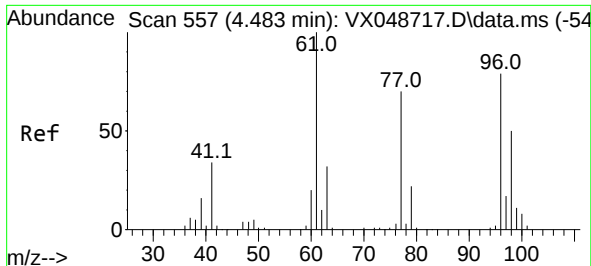
Tgt Ion: 96 Resp: 527
Ion Ratio Lower Upper
96 100
61 70.0 112.8 169.2#
98 67.9 51.0 76.4



#24
1,1-Dichloroethane
Concen: 0.661 ug/l
RT: 3.593 min Scan# 411
Delta R.T. -0.012 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion: 63 Resp: 2646
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.6#
100 0.0 2.5 7.4#





#27

cis-1,2-Dichloroethene

Concen: 64.608 ug/l

RT: 4.471 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX048877.D

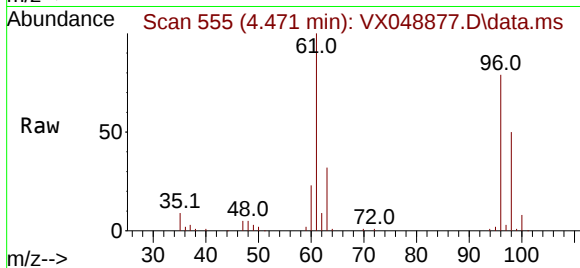
Acq: 15 Dec 2025 14:44

Instrument :

MSVOA_X

ClientSampleId :

MW-18B-57.5-121125-FDDL



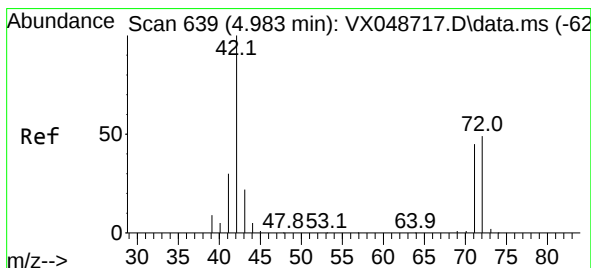
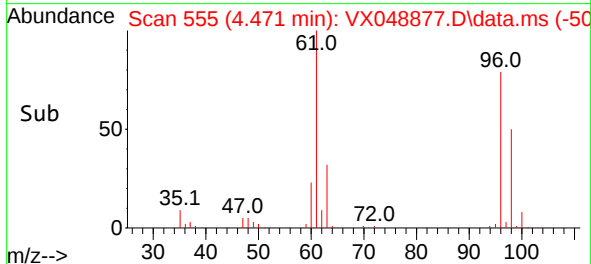
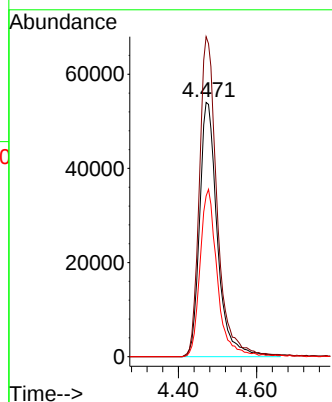
Tgt Ion: 96 Resp: 170219

Ion Ratio Lower Upper

96 100

61 126.0 0.0 271.0

98 63.9 0.0 130.2



#29

Tetrahydrofuran

Concen: 0.363 ug/l

RT: 5.019 min Scan# 645

Delta R.T. 0.037 min

Lab File: VX048877.D

Acq: 15 Dec 2025 14:44

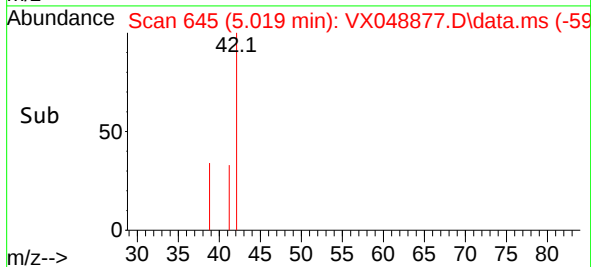
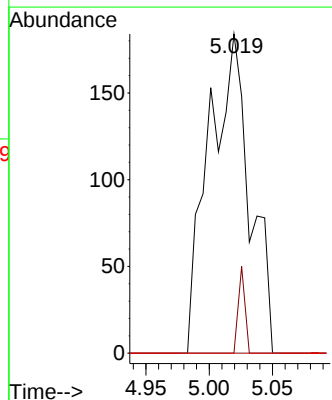
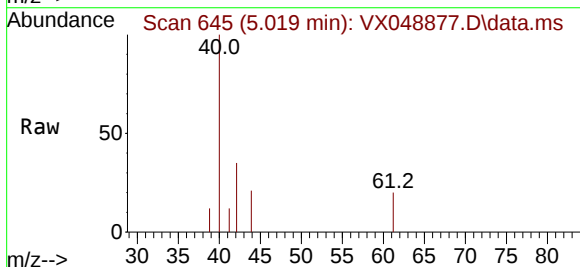
Tgt Ion: 42 Resp: 414

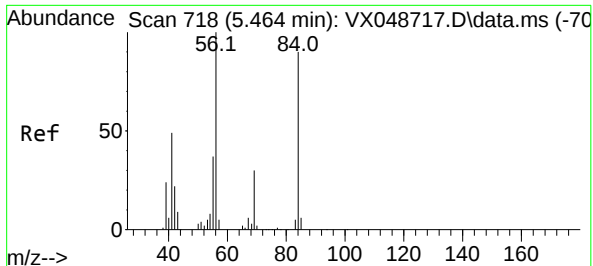
Ion Ratio Lower Upper

42 100

72 4.3 39.4 59.2#

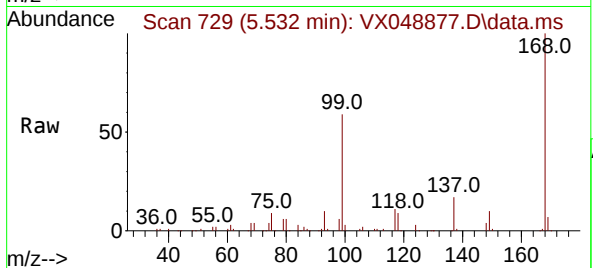
71 0.0 35.8 53.6#



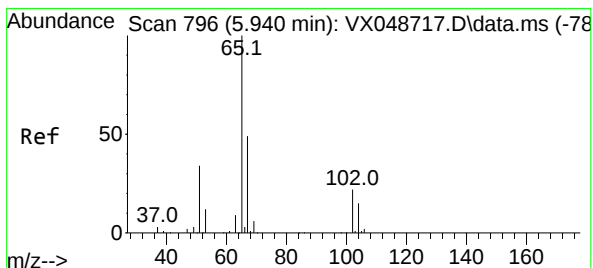
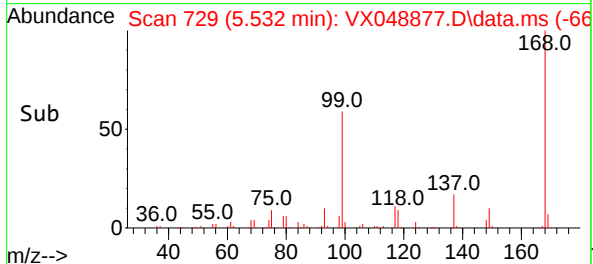
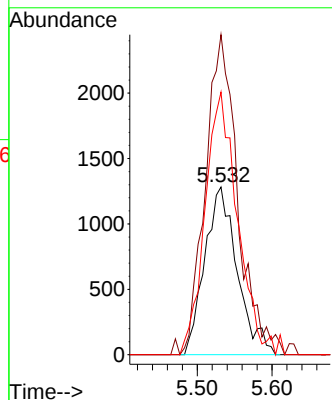


#31
Cyclohexane
Concen: 1.085 ug/l
RT: 5.532 min Scan# 718
Delta R.T. 0.067 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

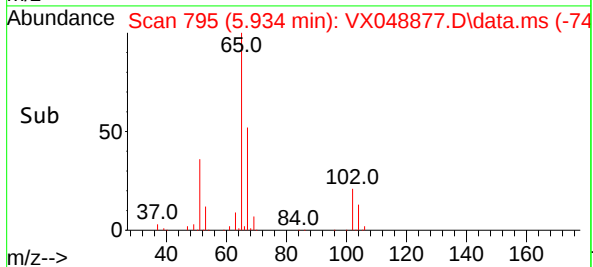
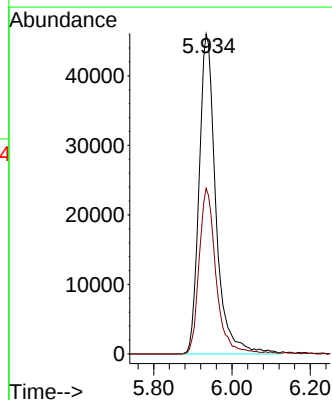
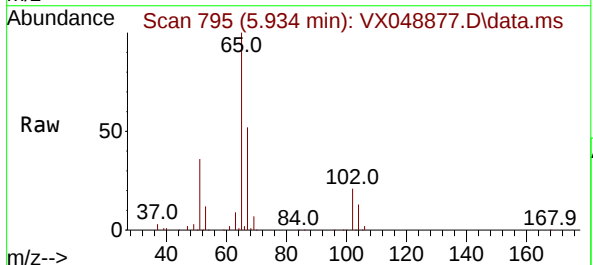


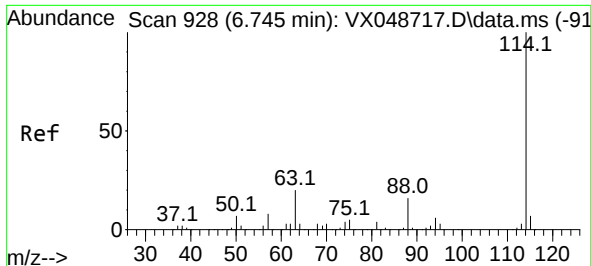
Tgt Ion: 56 Resp: 3878
Ion Ratio Lower Upper
56 100
69 190.7 24.2 36.2#
84 156.5 72.1 108.1#



#33
1,2-Dichloroethane-d4
Concen: 51.819 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion: 65 Resp: 137015
Ion Ratio Lower Upper
65 100
67 52.1 0.0 107.4

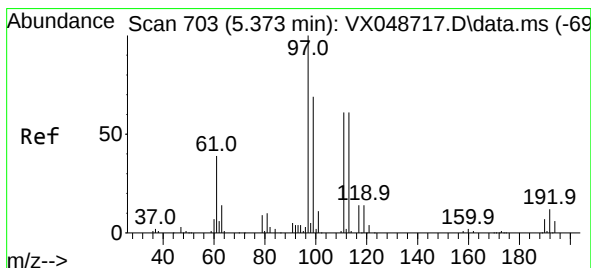
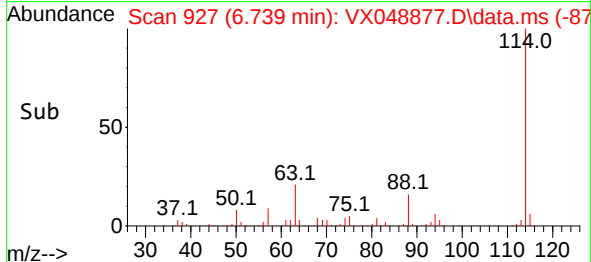
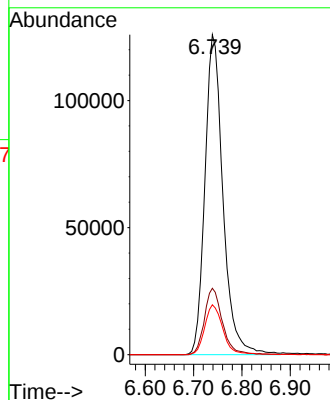
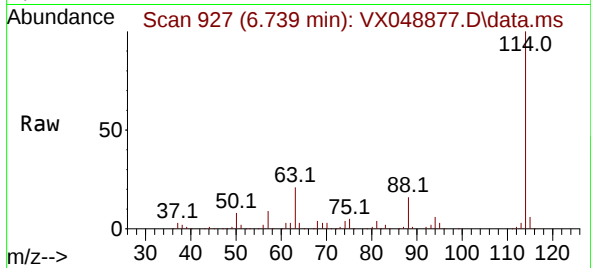




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

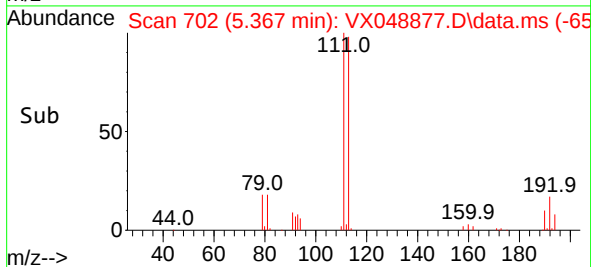
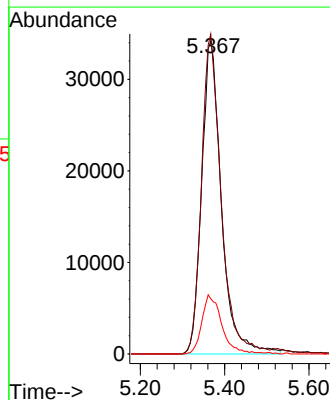
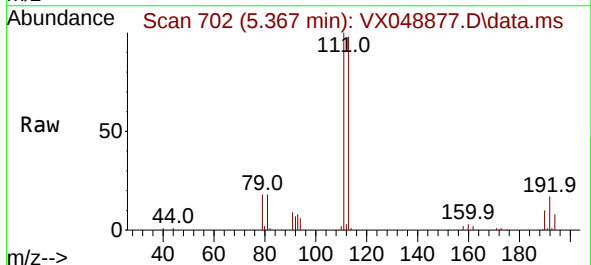
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

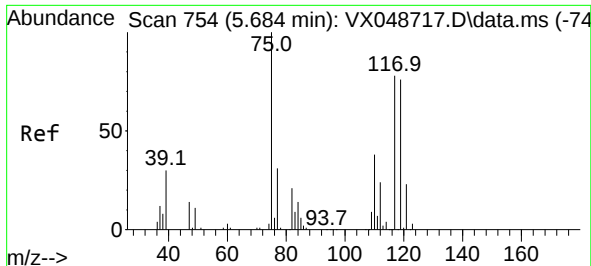
Tgt Ion:114 Resp: 326976
Ion Ratio Lower Upper
114 100
63 20.8 0.0 39.0
88 15.6 0.0 31.8



#35
Dibromofluoromethane
Concen: 49.639 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion:113 Resp: 111756
Ion Ratio Lower Upper
113 100
111 101.1 79.5 119.3
192 19.0 16.1 24.1

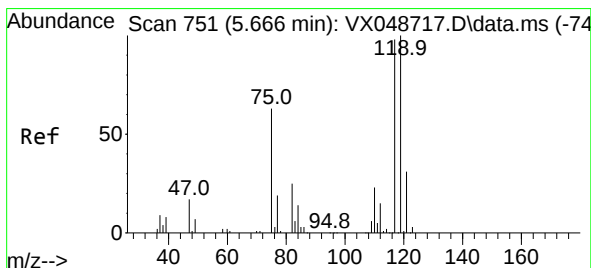
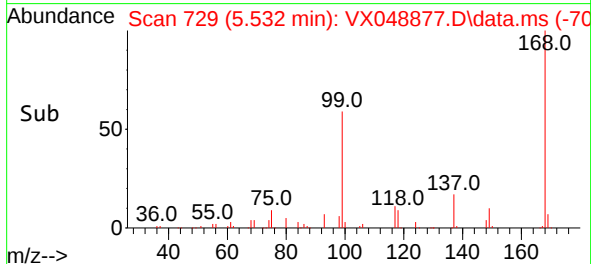
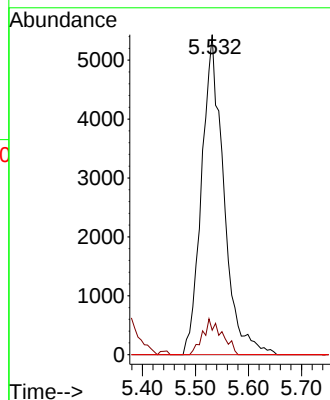
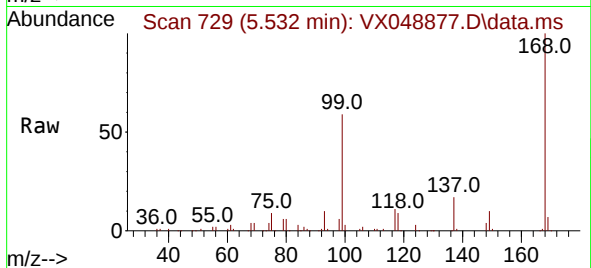




#36
1,1-Dichloropropene
Concen: 5.105 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.152 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

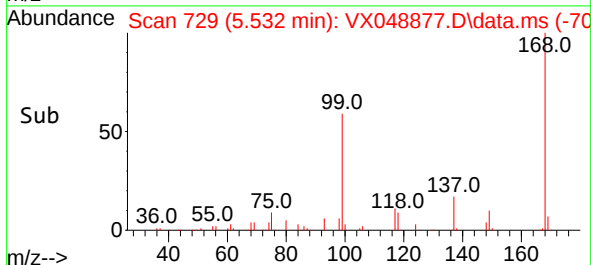
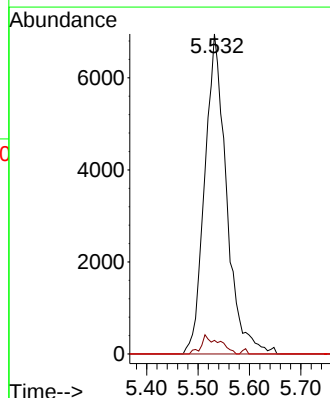
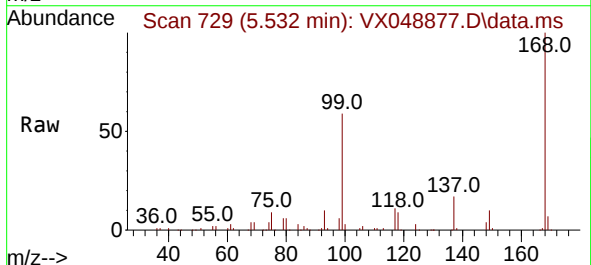
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

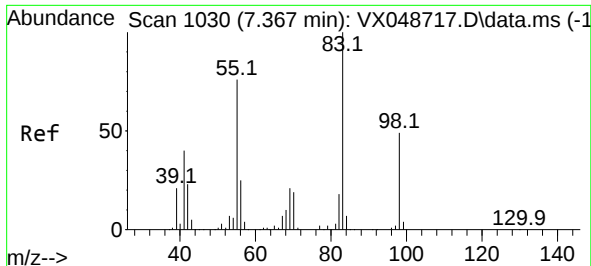
Tgt Ion: 75 Resp: 15742
Ion Ratio Lower Upper
75 100
110 9.7 18.6 55.8#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 5.870 ug/l
RT: 5.532 min Scan# 729
Delta R.T. -0.134 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion: 117 Resp: 20501
Ion Ratio Lower Upper
117 100
119 4.3 80.5 120.7#
121 0.0 25.4 38.0#

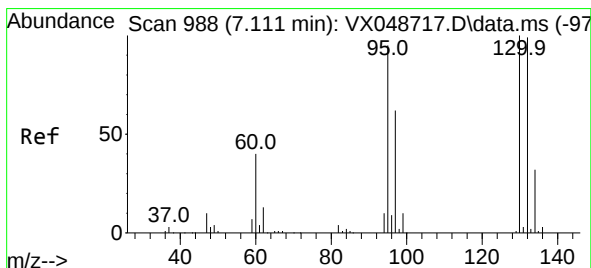
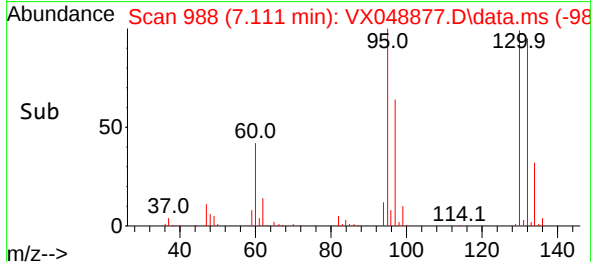
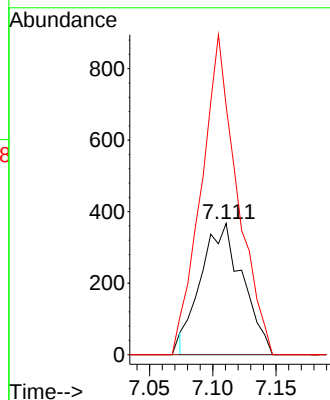
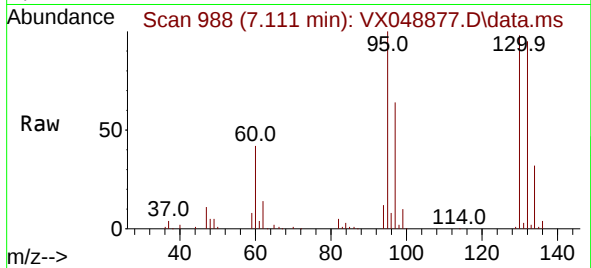




#39
Methylcyclohexane
Concen: 0.230 ug/l
RT: 7.111 min Scan# 987
Delta R.T. -0.256 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

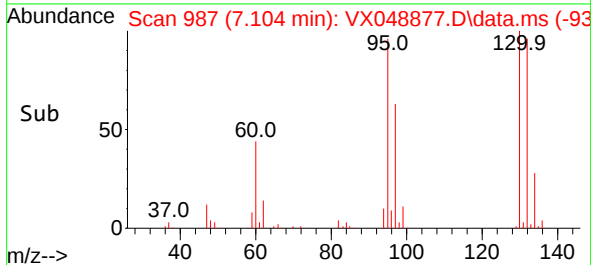
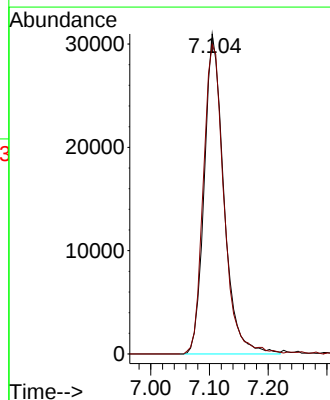
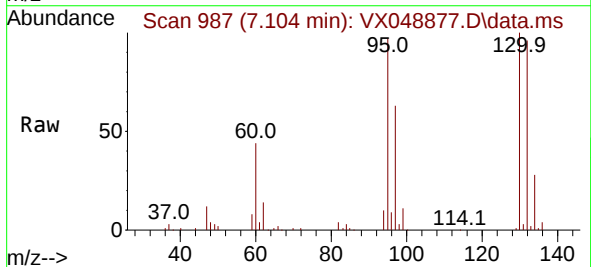
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

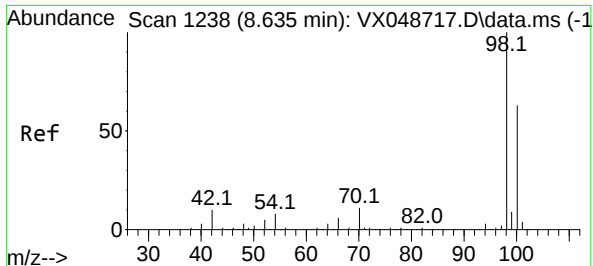
Tgt Ion: 83 Resp: 837
Ion Ratio Lower Upper
83 100
55 0.0 60.6 90.8#
98 189.6 39.3 58.9#



#44
Trichloroethene
Concen: 30.188 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion:130 Resp: 72003
Ion Ratio Lower Upper
130 100
95 96.7 0.0 189.6

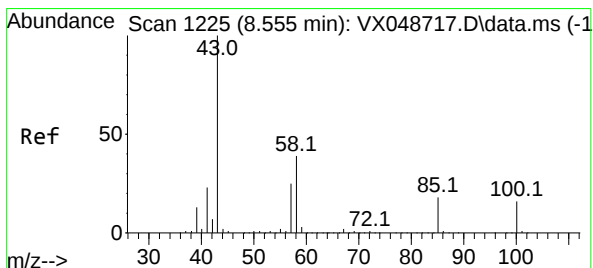
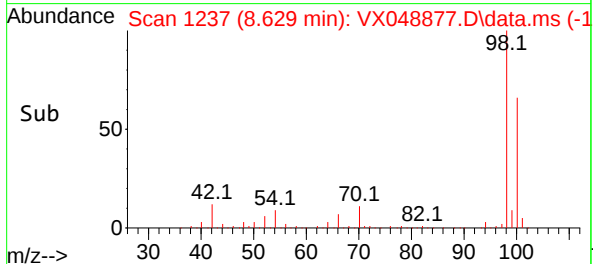
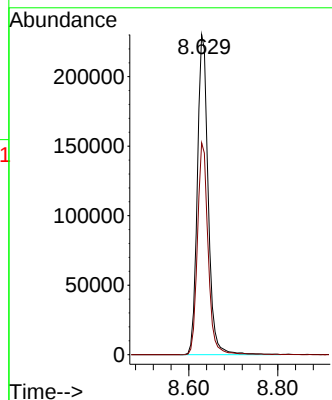
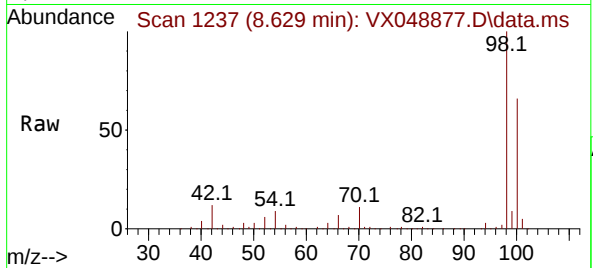




#50
Toluene-d8
Concen: 49.165 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

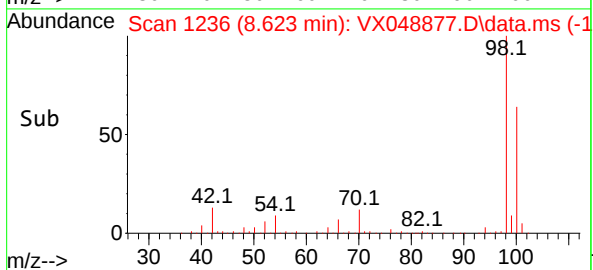
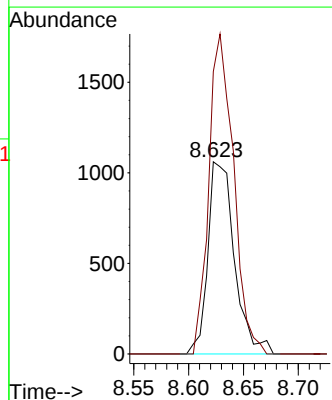
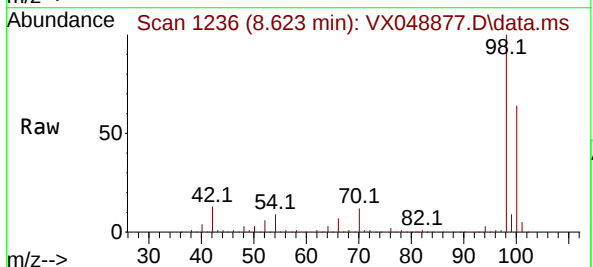
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

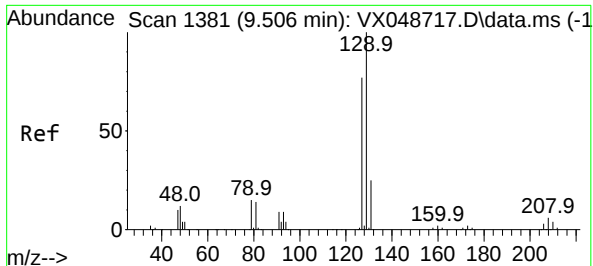
Tgt Ion: 98 Resp: 387995
Ion Ratio Lower Upper
98 100
100 65.2 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 0.516 ug/l
RT: 8.623 min Scan# 1236
Delta R.T. 0.067 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion: 43 Resp: 1787
Ion Ratio Lower Upper
43 100
58 155.4 32.2 48.4#

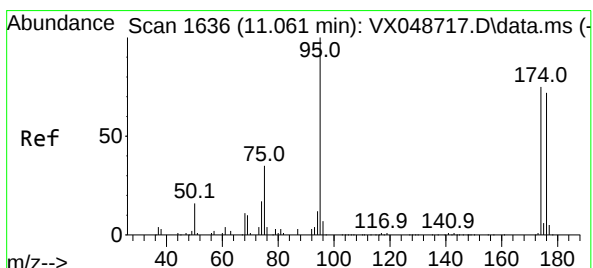
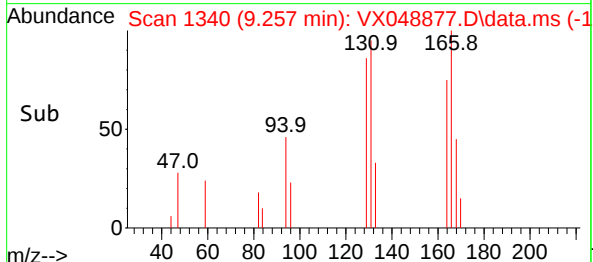
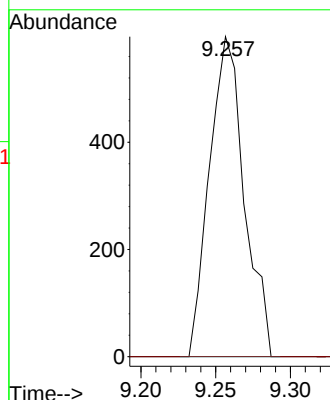
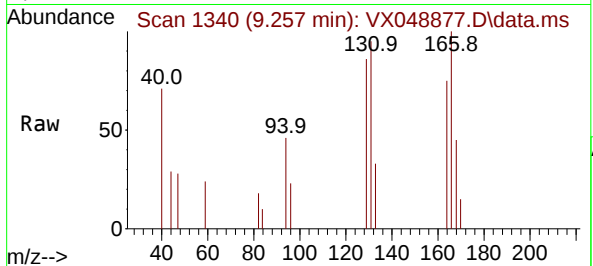




#60
Dibromochloromethane
Concen: 0.353 ug/l
RT: 9.257 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

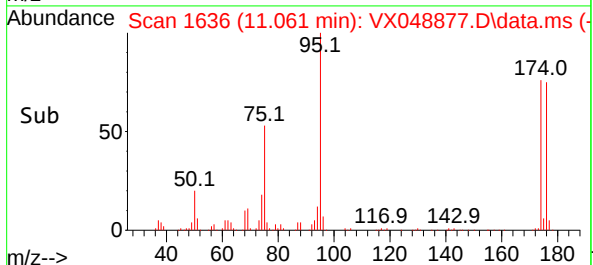
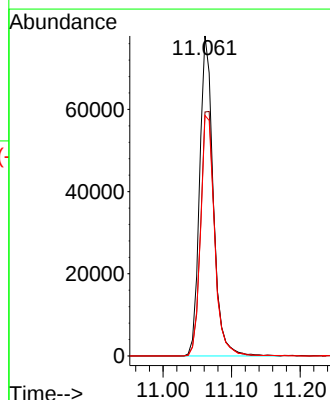
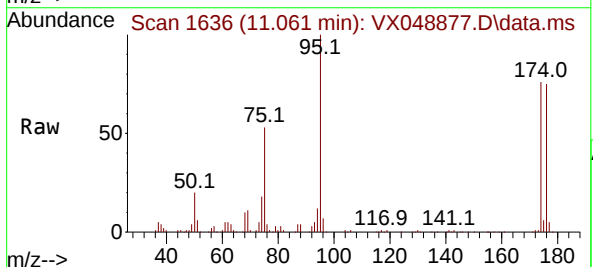
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

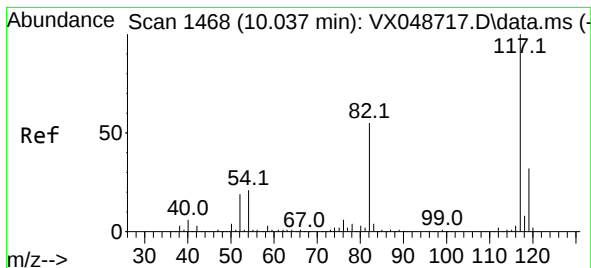
Tgt Ion:129 Resp: 968
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#



#62
4-Bromofluorobenzene
Concen: 39.631 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion: 95 Resp: 107849
Ion Ratio Lower Upper
95 100
174 79.3 0.0 157.8
176 77.4 0.0 154.0

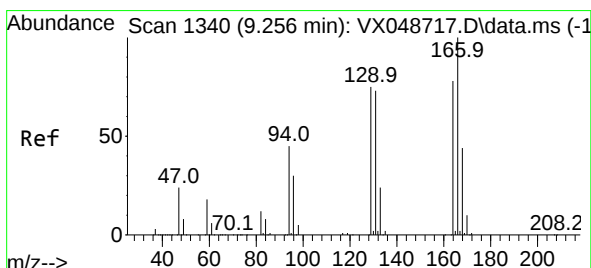
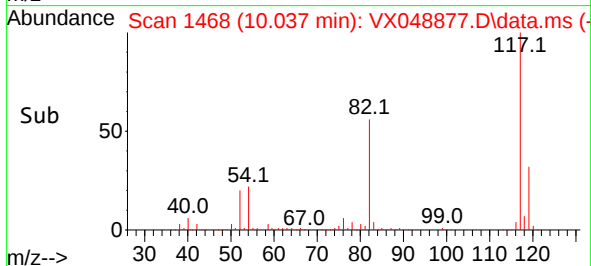
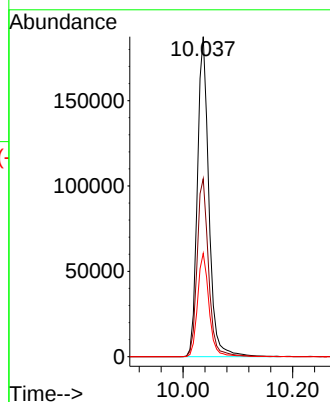
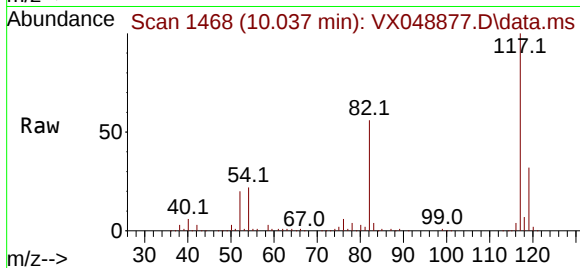




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

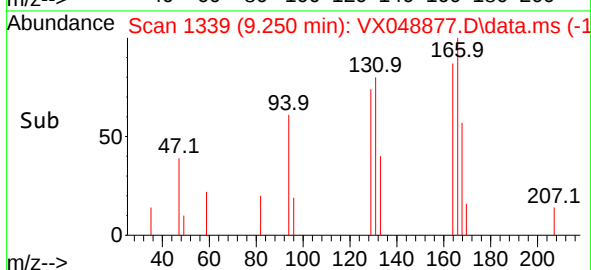
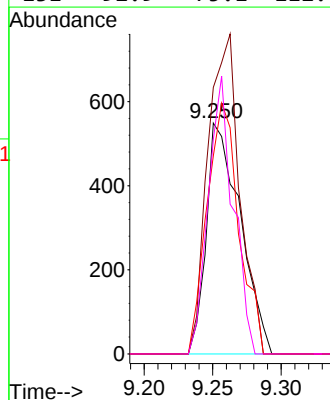
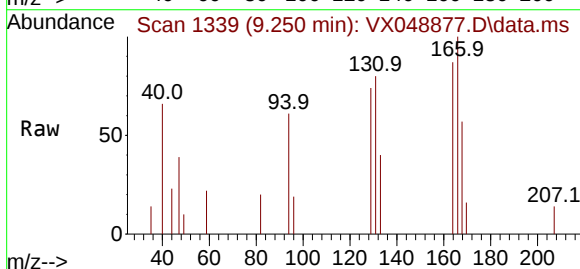
Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

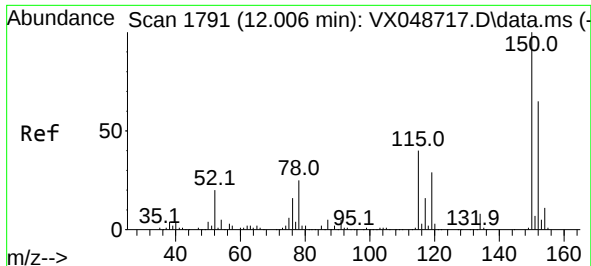
Tgt Ion:117 Resp: 273805
Ion Ratio Lower Upper
117 100
82 55.6 44.1 66.1
119 32.3 25.2 37.8



#64
Tetrachloroethene
Concen: 0.474 ug/l
RT: 9.250 min Scan# 1339
Delta R.T. -0.006 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion:164 Resp: 947
Ion Ratio Lower Upper
164 100
166 115.5 103.1 154.7
129 85.8 76.9 115.3
131 92.9 75.1 112.7

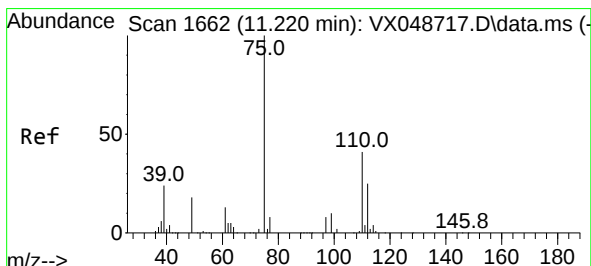
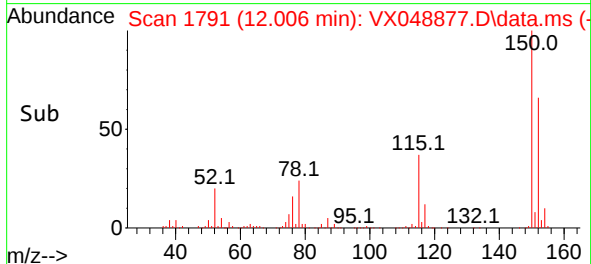
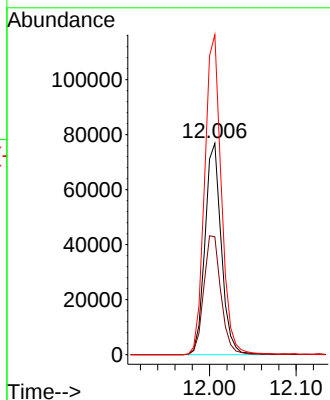
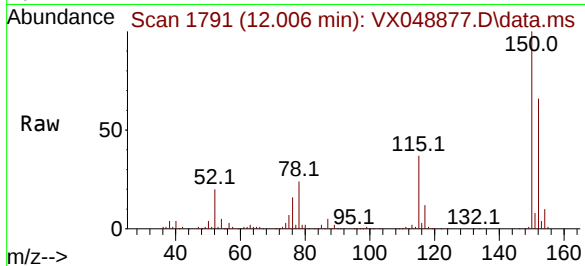




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX048877.D
 Acq: 15 Dec 2025 14:44

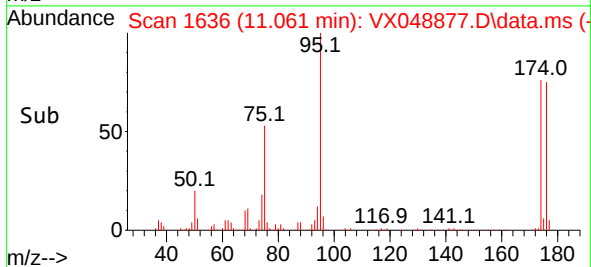
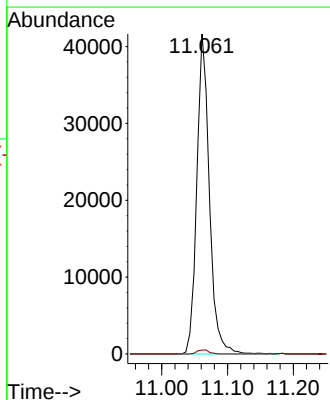
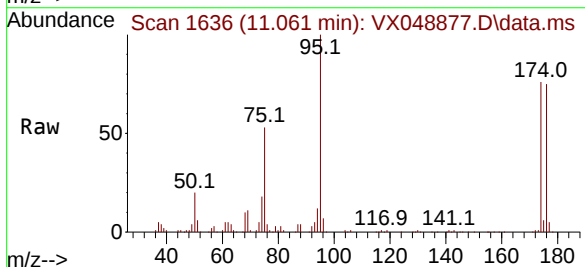
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-18B-57.5-121125-FDDL

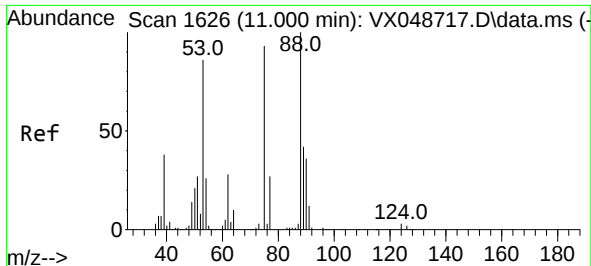
Tgt Ion:152 Resp: 100588
 Ion Ratio Lower Upper
 152 100
 115 59.5 42.1 126.4
 150 154.5 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 29.495 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.158 min
 Lab File: VX048877.D
 Acq: 15 Dec 2025 14:44

Tgt Ion: 75 Resp: 55259
 Ion Ratio Lower Upper
 75 100
 77 1.2 24.3 73.0#

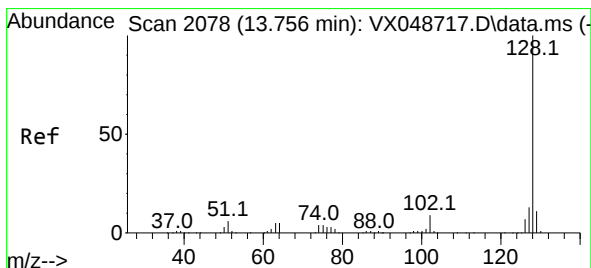
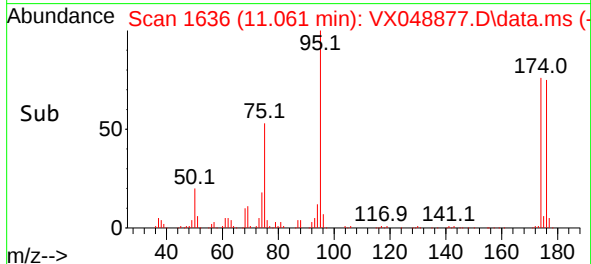
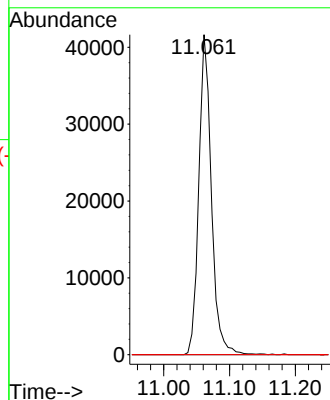
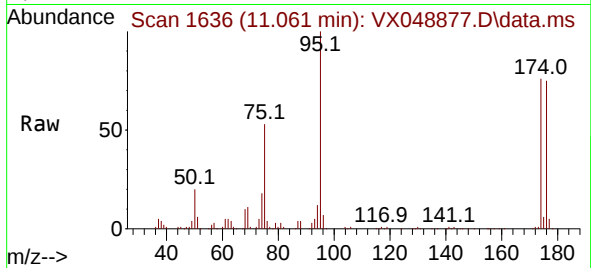




#81
trans-1,4-Dichloro-2-butene
Concen: 70.063 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Instrument :
MSVOA_X
ClientSampleId :
MW-18B-57.5-121125-FDDL

Tgt Ion: 75 Resp: 55259
Ion Ratio Lower Upper
75 100
53 0.0 79.9 119.9#
89 0.0 67.1 100.7#



#95
Naphthalene
Concen: Below Cal
RT: 13.768 min Scan# 2080
Delta R.T. 0.012 min
Lab File: VX048877.D
Acq: 15 Dec 2025 14:44

Tgt Ion:128 Resp: 112
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 13.0#

