

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048356.D
 Acq On : 27 Oct 2025 09:37
 Operator : JC/MD
 Sample : VX1027WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1027WBL01

Quant Time: Oct 28 01:47:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

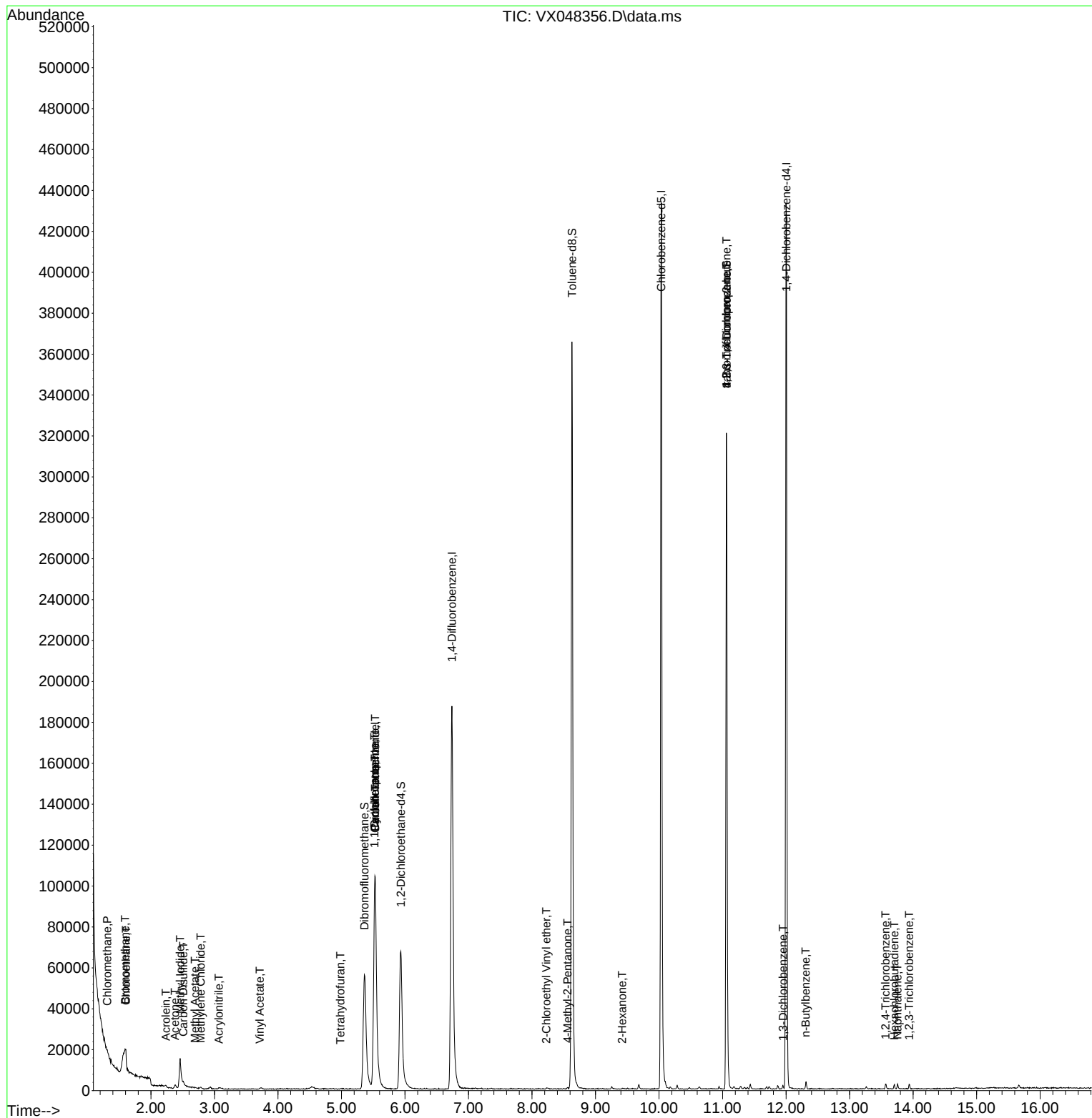
Internal Standards						
1) Pentafluorobenzene	5.525	168	108748	50.000	ug/l	-0.02
34) 1,4-Difluorobenzene	6.739	114	209060	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	200526	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	91743	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	80044	52.497	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	105.000%
35) Dibromofluoromethane	5.361	113	57511	40.295	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	80.600%
50) Toluene-d8	8.629	98	224858	44.948	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	89.900%#
62) 4-Bromofluorobenzene	11.061	95	89353	46.950	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.900%
Target Compounds						
						Qvalue
3) Chloromethane	1.313	50	756	0.724	ug/l	92
5) Bromomethane	1.593	94	431	0.657	ug/l #	2
6) Chloroethane	1.605	64	188	0.331	ug/l #	40
10) Methyl Iodide	2.459	142	22358	15.155	ug/l	99
13) Acrolein	2.233	56	142	0.920	ug/l #	46
15) Acrylonitrile	3.069	53	225	0.412	ug/l #	80
16) Acetone	2.380	43	1149	2.197	ug/l	93
17) Carbon Disulfide	2.508	76	1248	0.347	ug/l #	90
18) Methyl Acetate	2.691	43	742	0.679	ug/l #	79
20) Methylene Chloride	2.782	84	368	0.289	ug/l #	78
23) Vinyl Acetate	3.715	43	1267	0.420	ug/l #	73
29) Tetrahydrofuran	4.983	42	113	0.285	ug/l #	33
31) Cyclohexane	5.525	56	2739	1.447	ug/l #	1
36) 1,1-Dichloropropene	5.519	75	9217	4.544	ug/l #	50
38) Carbon Tetrachloride	5.532	117	11579	4.627	ug/l #	14
51) 4-Methyl-2-Pentanone	8.562	43	585	0.367	ug/l #	76
58) 2-Chloroethyl Vinyl ether	8.226	63	249	1.923	ug/l #	47
59) 2-Hexanone	9.421	43	375	0.338	ug/l #	58
76) 1,2,3-Trichloropropane	11.061	75	48431	32.553	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	48431	79.199	ug/l #	10
87) 1,3-Dichlorobenzene	11.951	146	644	0.203	ug/l	89
89) n-Butylbenzene	12.311	91	1107	0.205	ug/l	86
93) 1,2,4-Trichlorobenzene	13.567	180	767	0.381	ug/l	93
94) Hexachlorobutadiene	13.707	225	374	0.562	ug/l	92
95) Naphthalene	13.756	128	1571	0.295	ug/l #	95
96) 1,2,3-Trichlorobenzene	13.939	180	675	0.366	ug/l	96

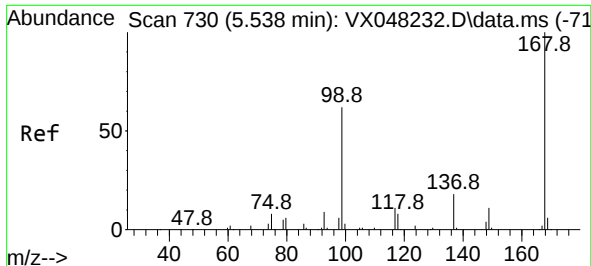
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
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Quant Time: Oct 28 01:47:16 2025
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Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

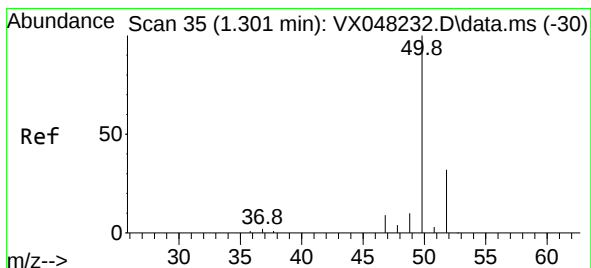
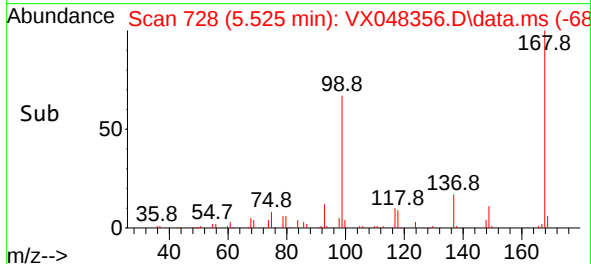
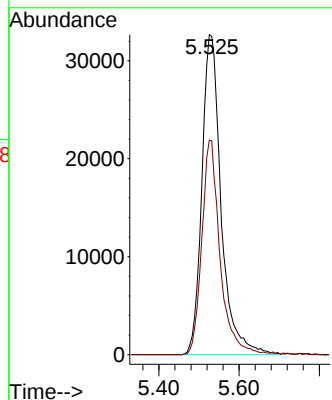
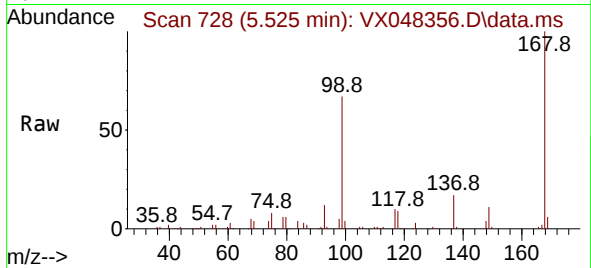




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.525 min Scan# 71
Delta R.T. -0.019 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

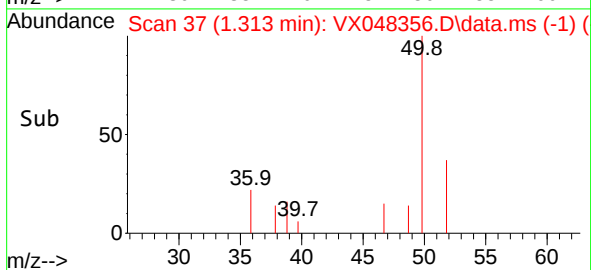
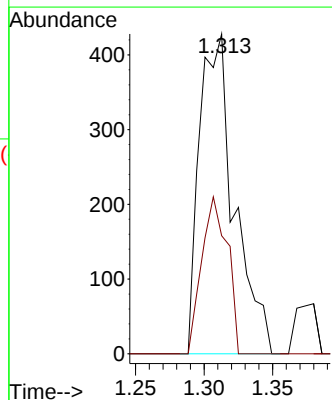
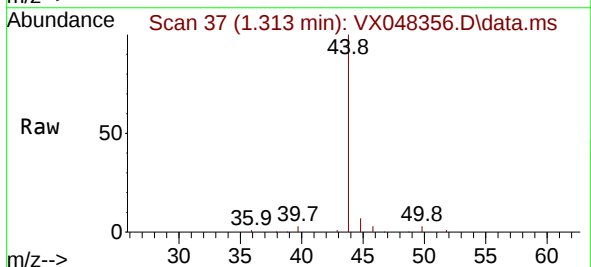
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

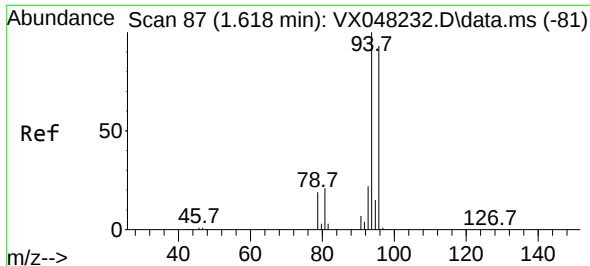
Tgt Ion:168 Resp: 108748
Ion Ratio Lower Upper
168 100
99 67.1 46.4 69.6



#3
Chloromethane
Concen: 0.724 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.012 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion: 50 Resp: 756
Ion Ratio Lower Upper
50 100
52 36.9 25.9 38.9

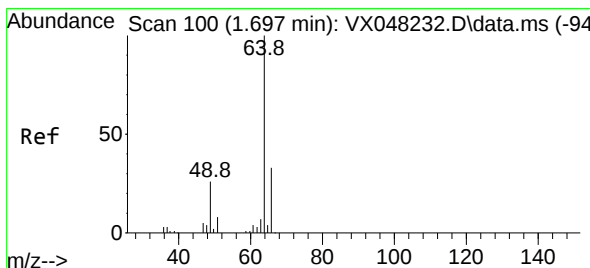
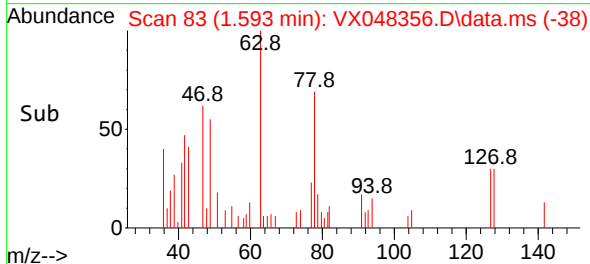
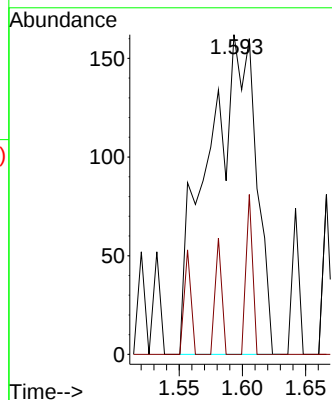
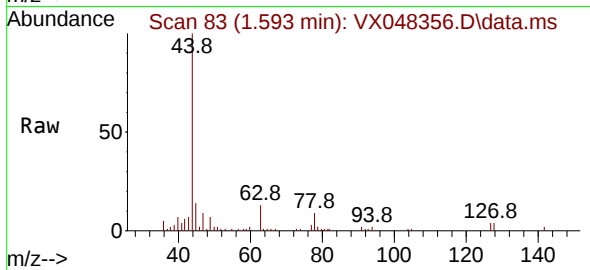




#5
Bromomethane
Concen: 0.657 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.024 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

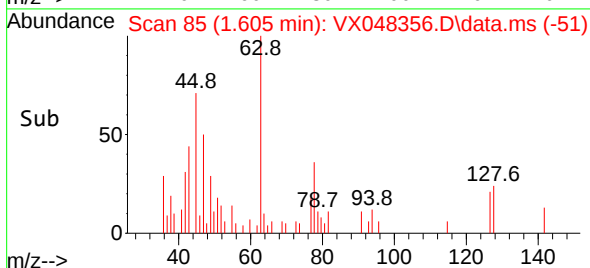
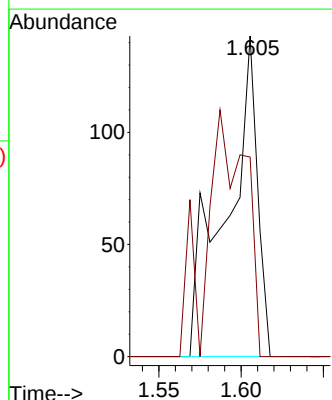
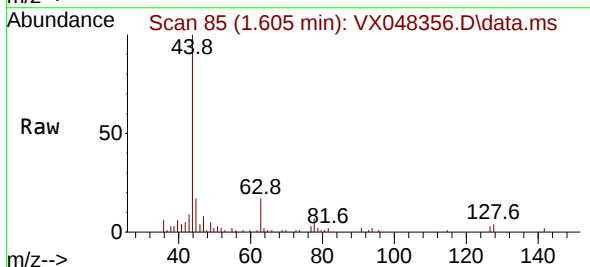
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

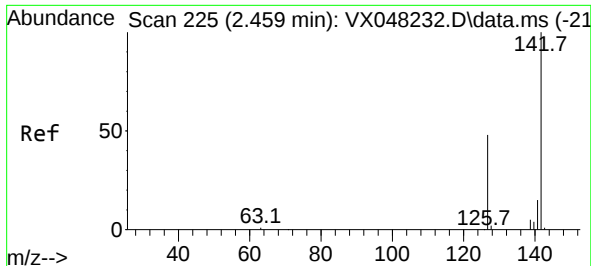
Tgt Ion: 94 Resp: 431
Ion Ratio Lower Upper
94 100
96 0.0 76.0 114.0#



#6
Chloroethane
Concen: 0.331 ug/l
RT: 1.605 min Scan# 85
Delta R.T. -0.091 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

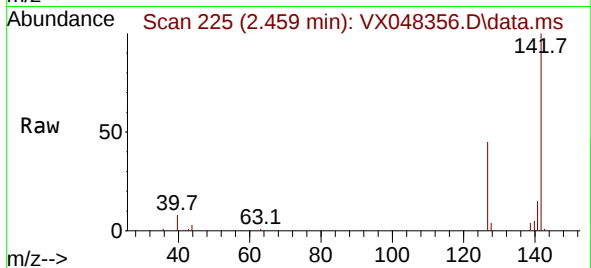
Tgt Ion: 64 Resp: 188
Ion Ratio Lower Upper
64 100
66 62.2 23.9 35.9#



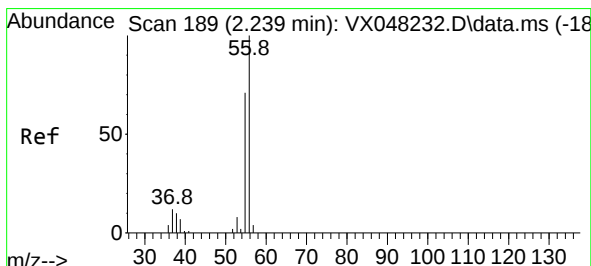
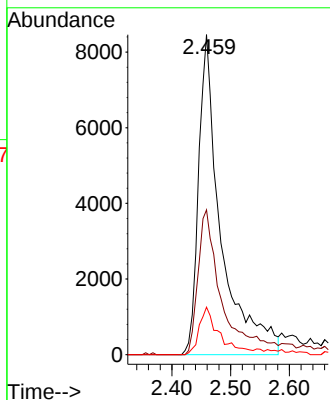
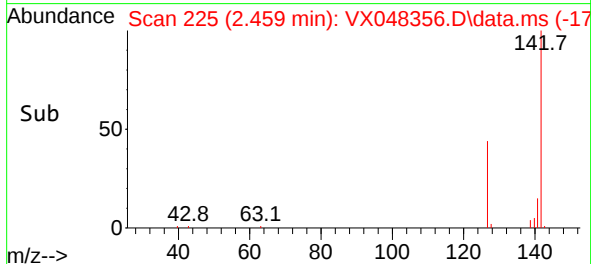


#10
Methyl Iodide
Concen: 15.155 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

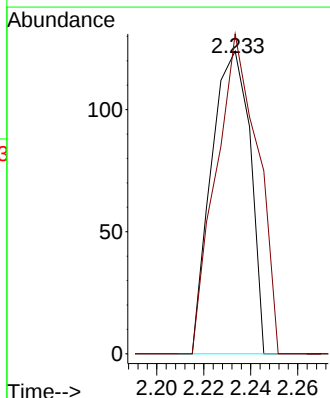
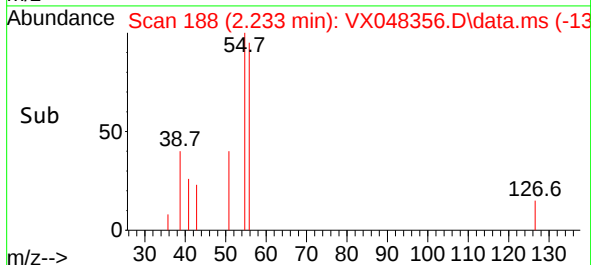
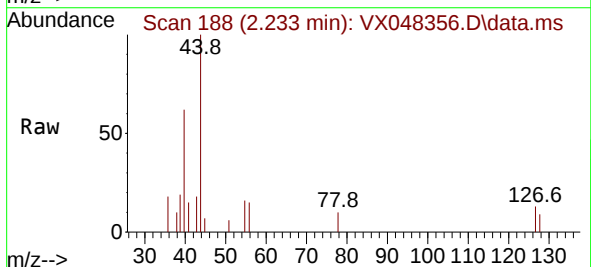


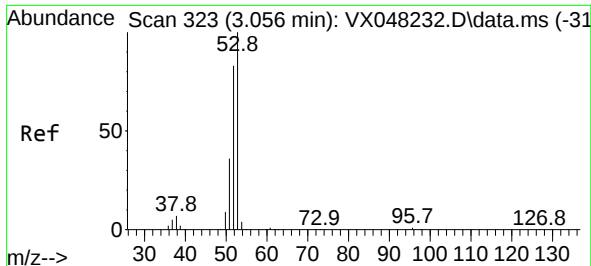
Tgt Ion:142 Resp: 22358
Ion Ratio Lower Upper
142 100
127 48.4 38.5 57.7
141 13.4 11.6 17.4



#13
Acrolein
Concen: 0.920 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 114.1 56.1 84.1#

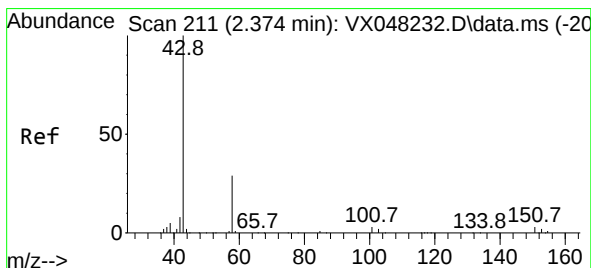
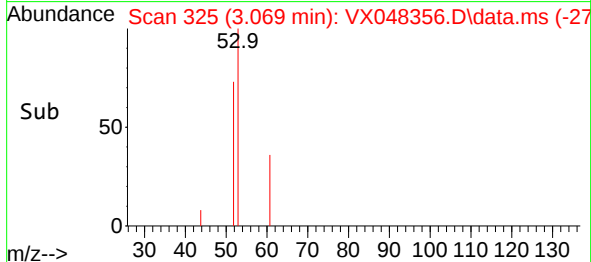
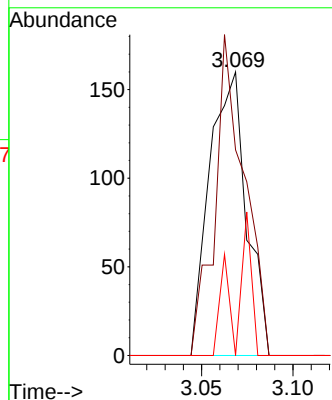
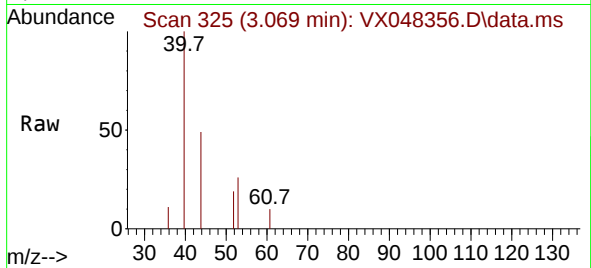




#15
Acrylonitrile
Concen: 0.412 ug/l
RT: 3.069 min Scan# 31
Delta R.T. 0.012 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

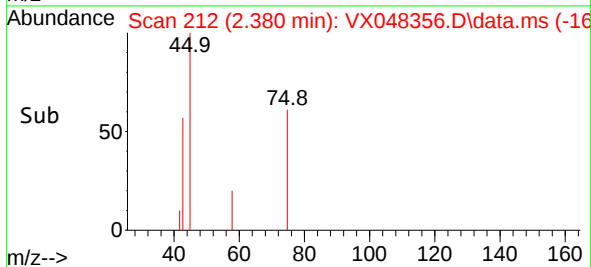
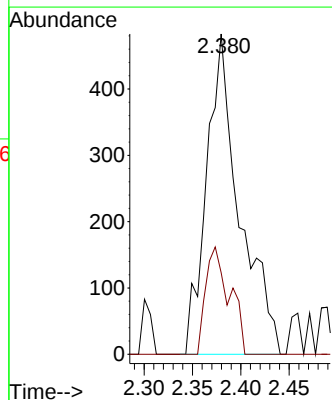
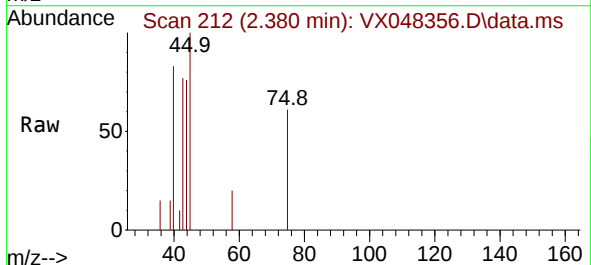
Instrument :
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ClientSampleId :
VX1027WBL01

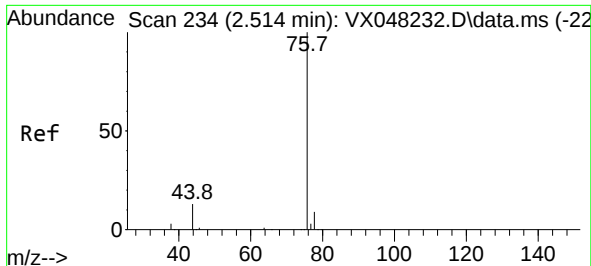
Tgt Ion: 53 Resp: 225
Ion Ratio Lower Upper
53 100
52 90.7 66.1 99.1
51 9.3 29.0 43.4#



#16
Acetone
Concen: 2.197 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

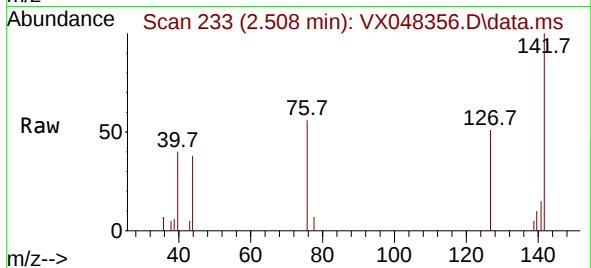
Tgt Ion: 43 Resp: 1149
Ion Ratio Lower Upper
43 100
58 25.5 23.4 35.2



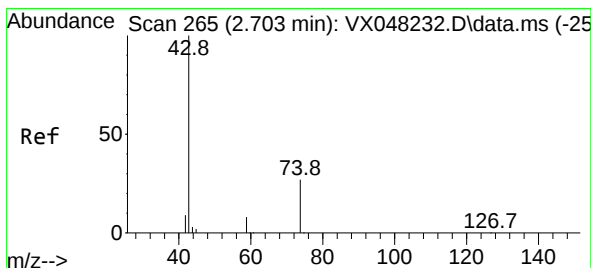
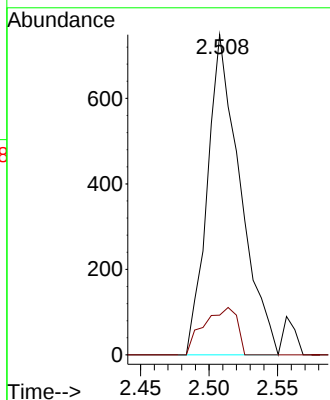
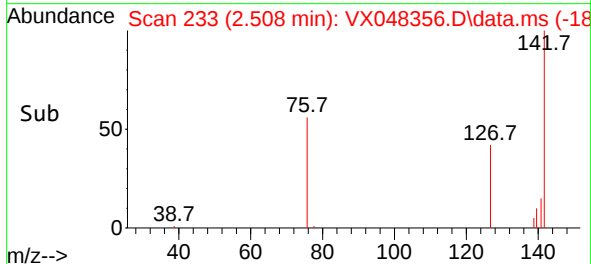


#17
Carbon Disulfide
Concen: 0.347 ug/l
RT: 2.508 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

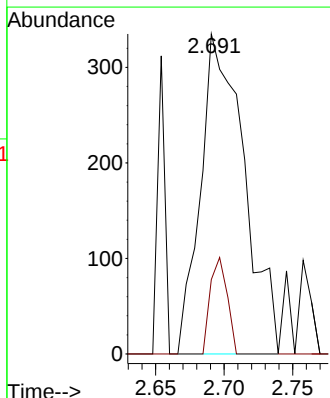
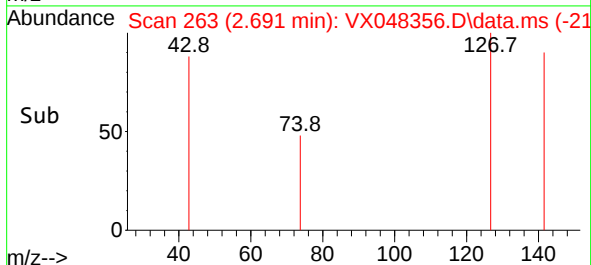
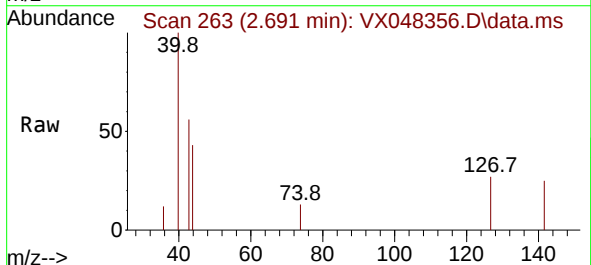


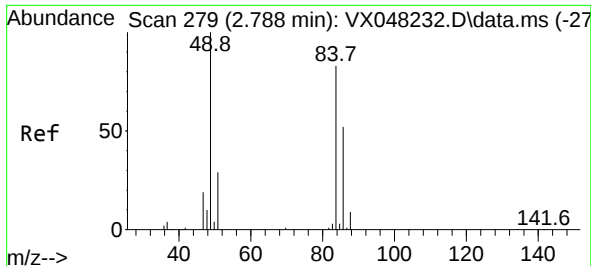
Tgt Ion: 76 Resp: 1248
Ion Ratio Lower Upper
76 100
78 12.4 7.1 10.7#



#18
Methyl Acetate
Concen: 0.679 ug/l
RT: 2.691 min Scan# 263
Delta R.T. -0.006 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion: 43 Resp: 742
Ion Ratio Lower Upper
43 100
74 11.7 17.5 26.3#

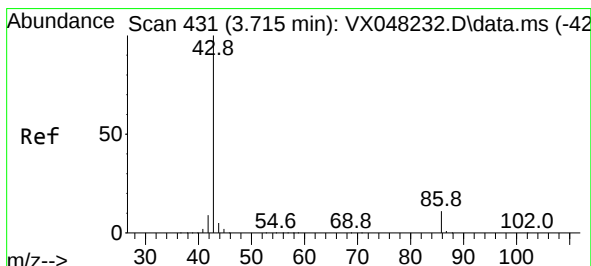
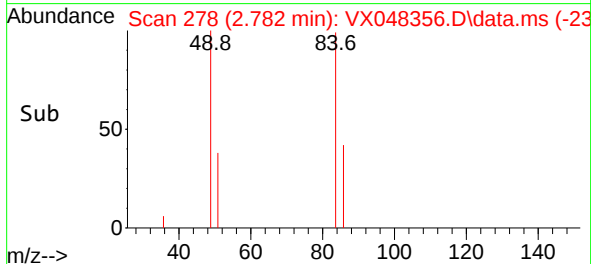
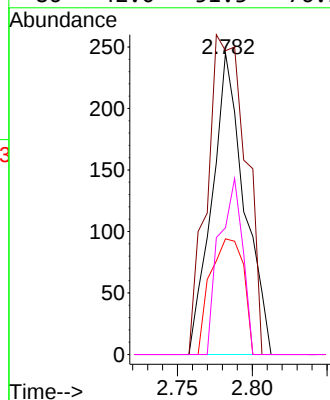
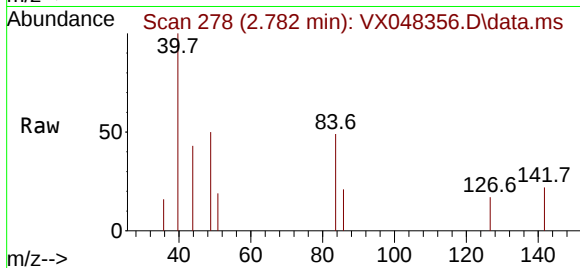




#20
Methylene Chloride
Concen: 0.289 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

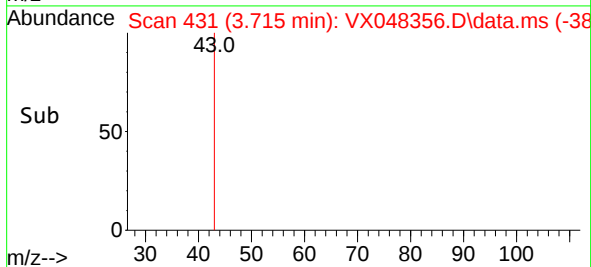
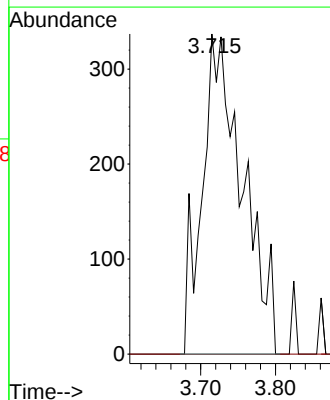
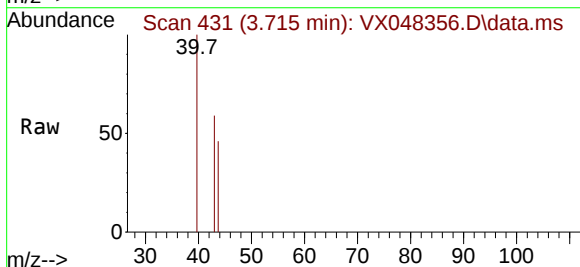
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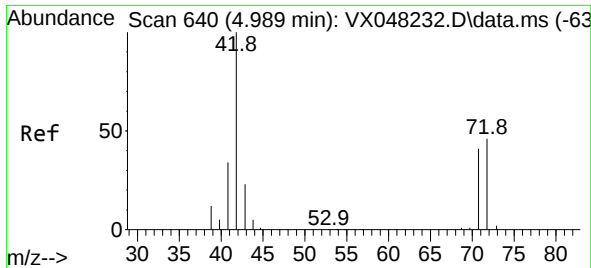
Tgt Ion:	84	Resp:	368
Ion	Ratio	Lower	Upper
84	100		
49	100.8	104.1	156.1#
51	38.4	31.3	46.9
86	42.0	51.3	76.9#



#23
Vinyl Acetate
Concen: 0.420 ug/l
RT: 3.715 min Scan# 431
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion:	43	Resp:	1267
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.9	11.9#

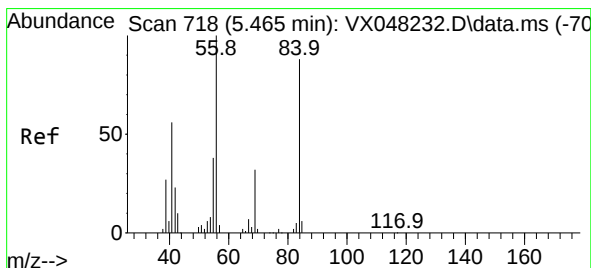
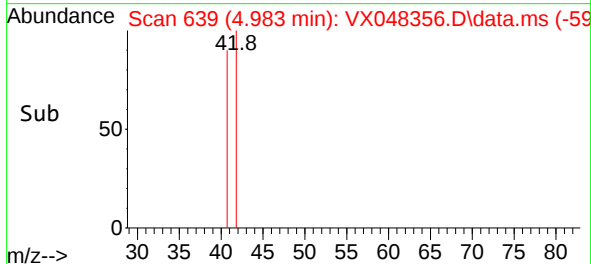
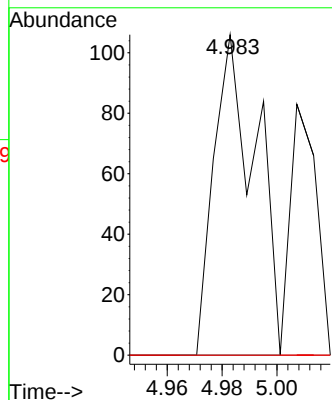
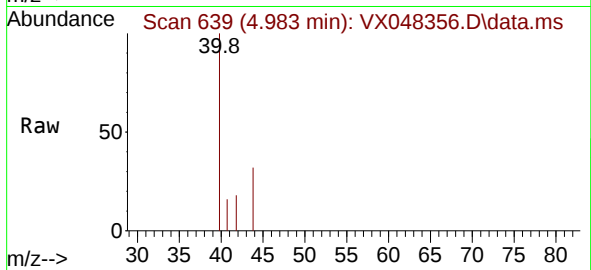




#29
Tetrahydrofuran
Concen: 0.285 ug/l
RT: 4.983 min Scan# 611
Delta R.T. -0.006 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

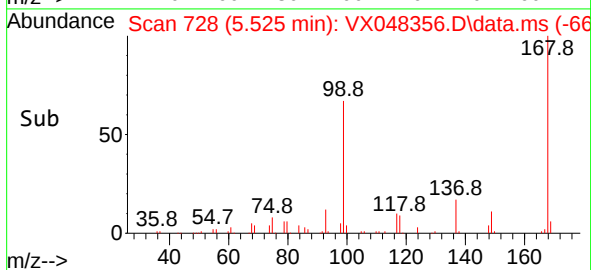
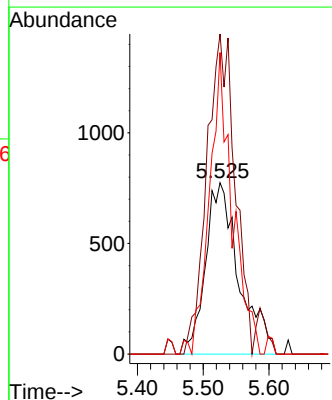
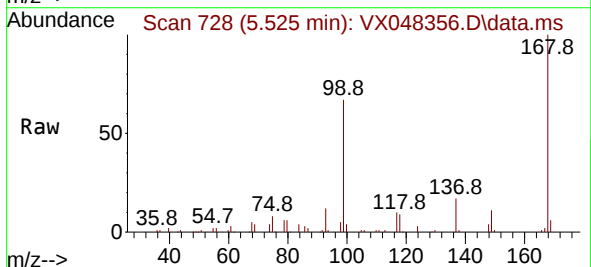
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

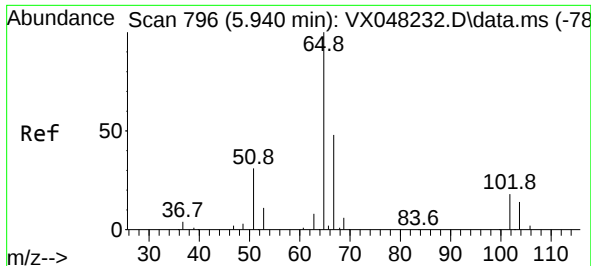
Tgt Ion: 42 Resp: 113
Ion Ratio Lower Upper
42 100
72 0.0 35.3 52.9#
71 0.0 32.2 48.4#



#31
Cyclohexane
Concen: 1.447 ug/l
RT: 5.525 min Scan# 728
Delta R.T. 0.067 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion: 56 Resp: 2739
Ion Ratio Lower Upper
56 100
69 187.0 23.0 34.6#
84 176.1 64.6 97.0#

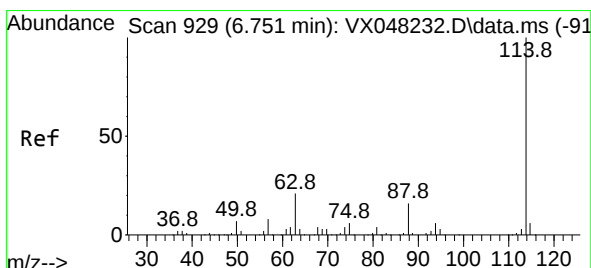
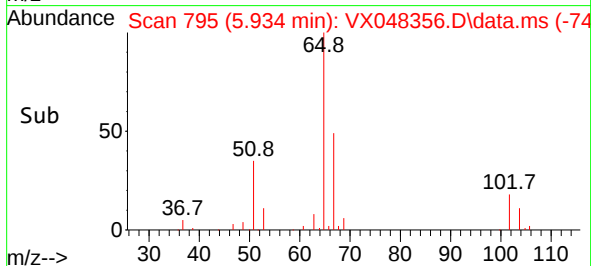
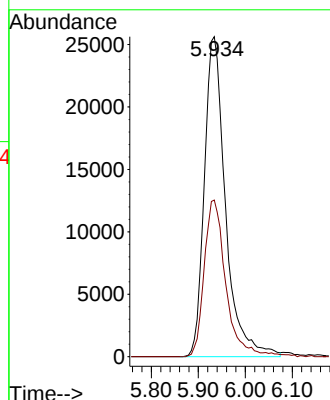
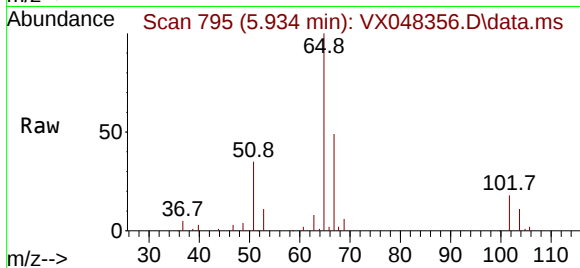




#33
 1,2-Dichloroethane-d4
 Concen: 52.497 ug/l
 RT: 5.934 min Scan# 796
 Delta R.T. -0.006 min
 Lab File: VX048356.D
 Acq: 27 Oct 2025 09:37

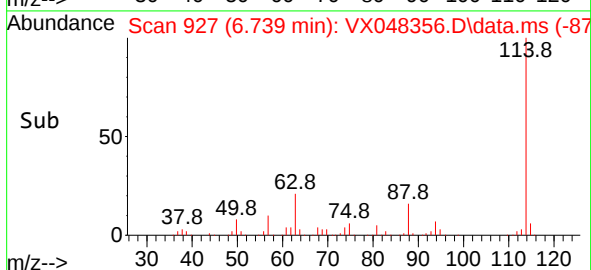
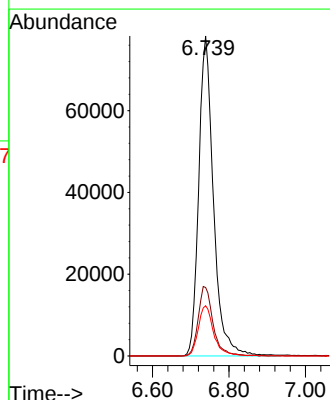
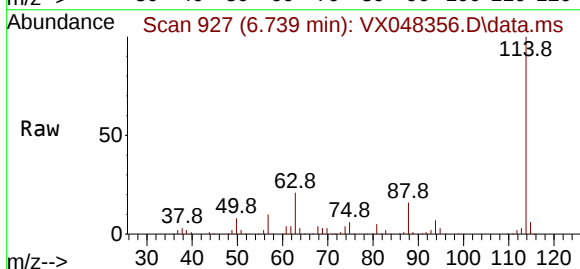
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1027WBL01

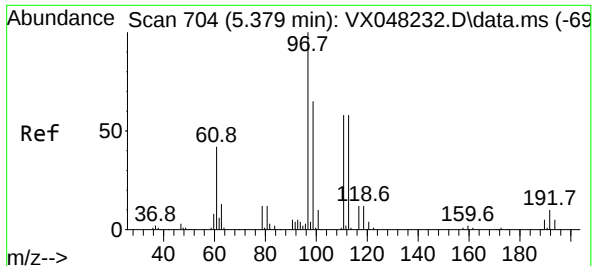
Tgt Ion: 65 Resp: 80044
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.739 min Scan# 927
 Delta R.T. -0.006 min
 Lab File: VX048356.D
 Acq: 27 Oct 2025 09:37

Tgt Ion: 114 Resp: 209060
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.2
 88 15.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 40.295 ug/l

RT: 5.361 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBL01

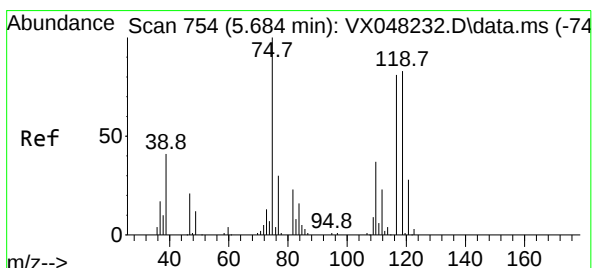
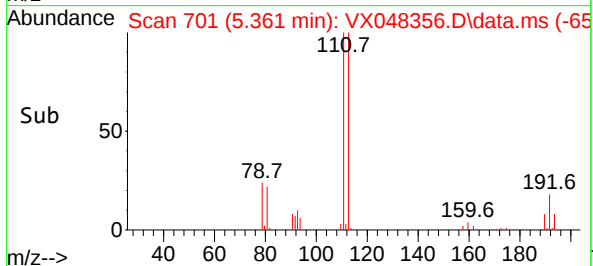
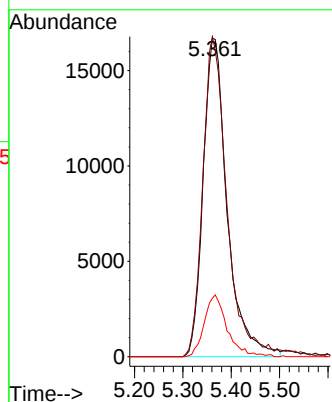
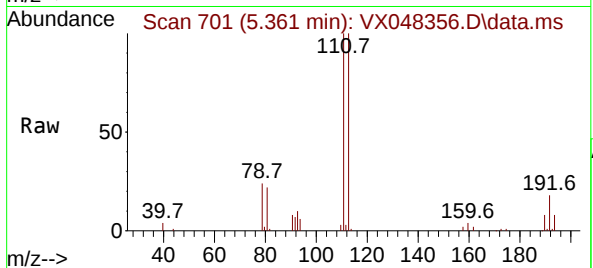
Tgt Ion:113 Resp: 57511

Ion Ratio Lower Upper

113 100

111 101.3 82.2 123.4

192 18.5 15.1 22.7



#36

1,1-Dichloropropene

Concen: 4.544 ug/l

RT: 5.519 min Scan# 727

Delta R.T. -0.165 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

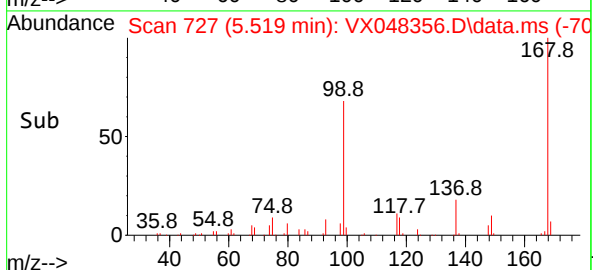
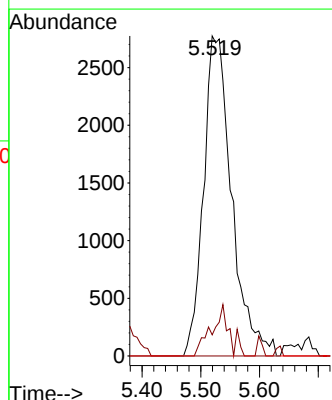
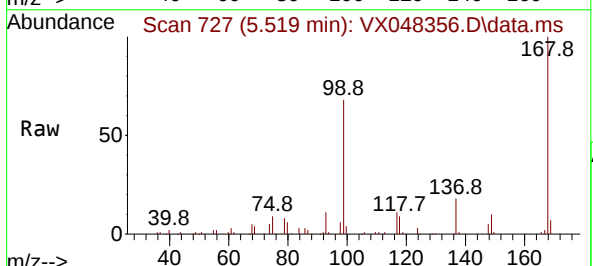
Tgt Ion: 75 Resp: 9217

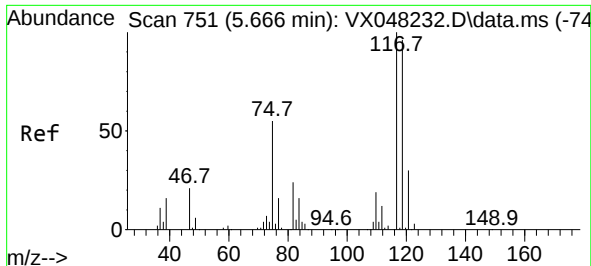
Ion Ratio Lower Upper

75 100

110 9.0 17.7 53.1#

77 0.0 24.3 36.5#

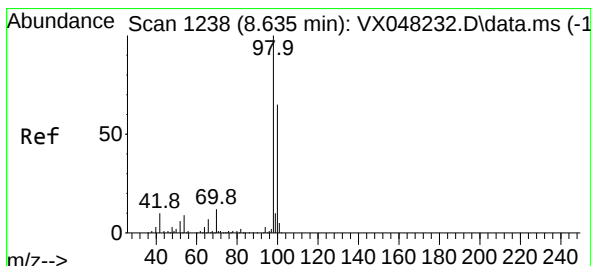
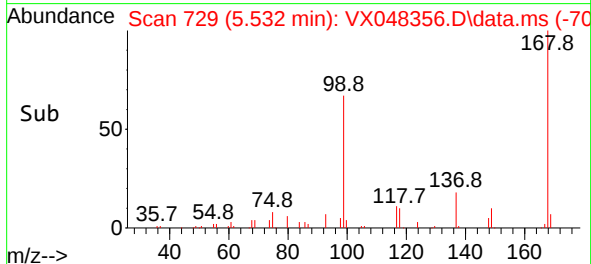
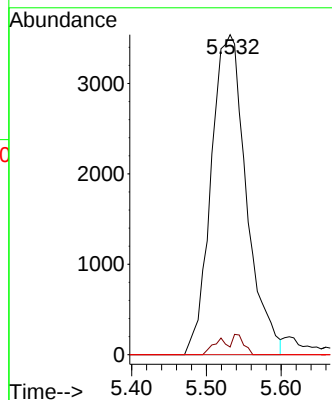
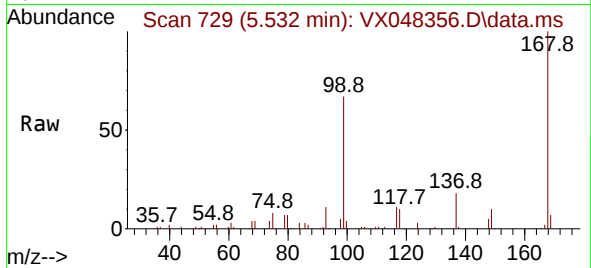




#38
Carbon Tetrachloride
Concen: 4.627 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

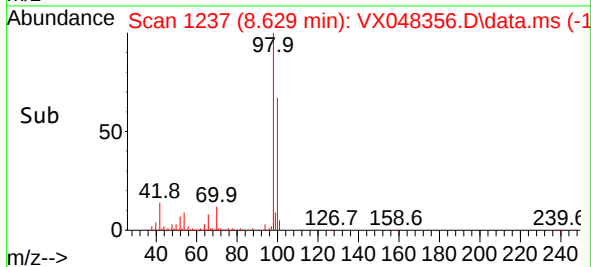
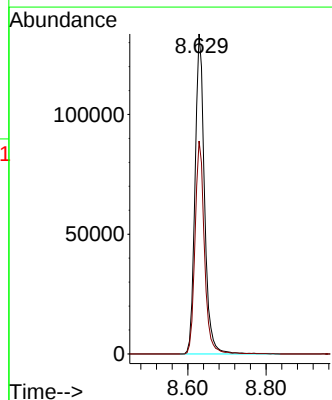
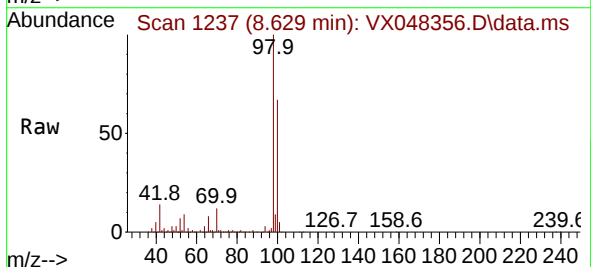
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

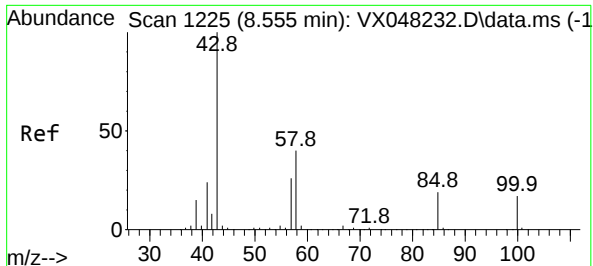
Tgt Ion:117 Resp: 11579
Ion Ratio Lower Upper
117 100
119 2.4 77.2 115.8#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 44.948 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion: 98 Resp: 224858
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.4





#51

4-Methyl-2-Pentanone

Concen: 0.367 ug/l

RT: 8.562 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

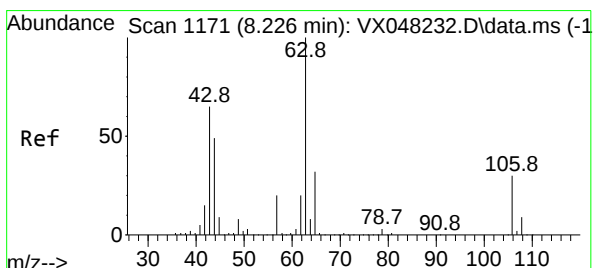
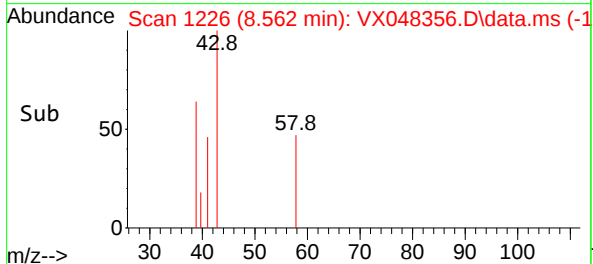
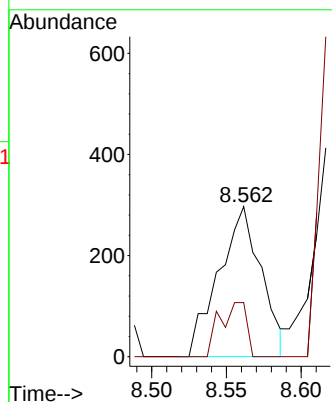
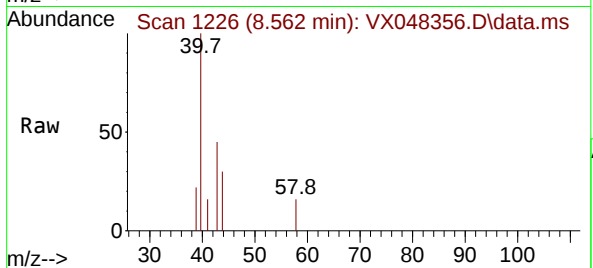
VX1027WBL01

Tgt Ion: 43 Resp: 585

Ion Ratio Lower Upper

43 100

58 22.6 29.5 44.3#



#58

2-Chloroethyl Vinyl ether

Concen: 1.923 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048356.D

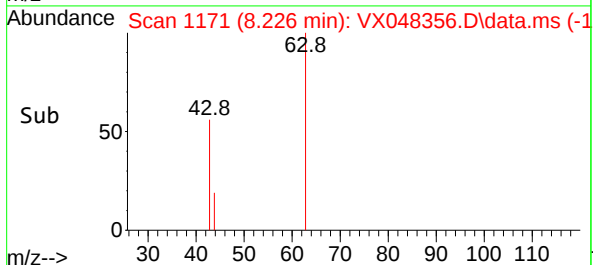
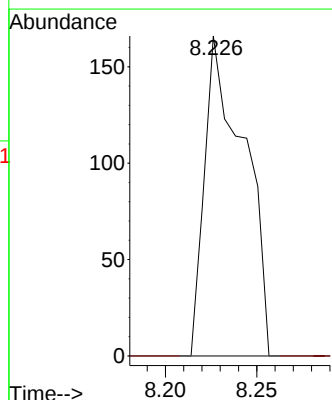
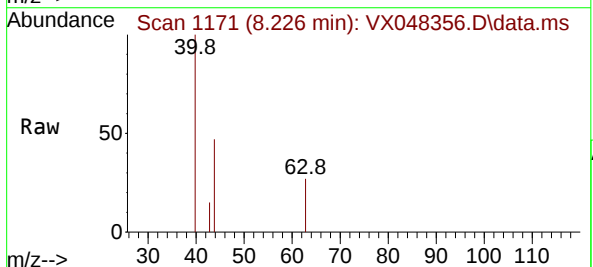
Acq: 27 Oct 2025 09:37

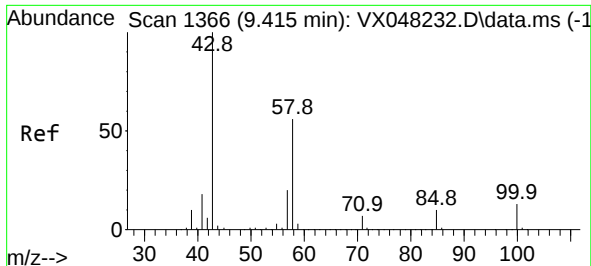
Tgt Ion: 63 Resp: 249

Ion Ratio Lower Upper

63 100

106 0.0 22.2 33.2#





#59

2-Hexanone

Concen: 0.338 ug/l

RT: 9.421 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

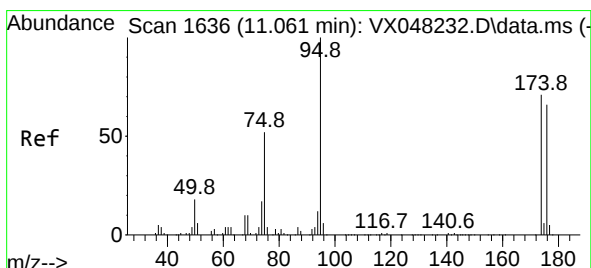
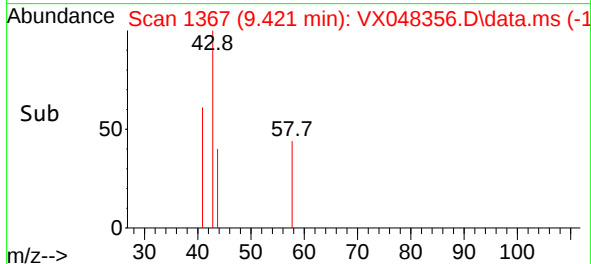
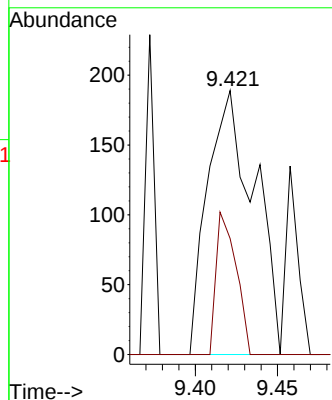
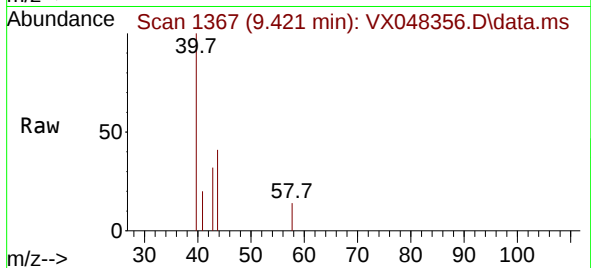
VX1027WBL01

Tgt Ion: 43 Resp: 375

Ion Ratio Lower Upper

43 100

58 22.9 26.3 78.8#



#62

4-Bromofluorobenzene

Concen: 46.950 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

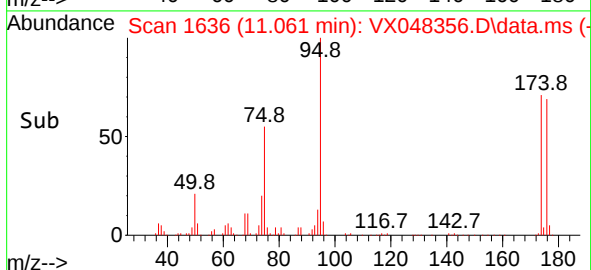
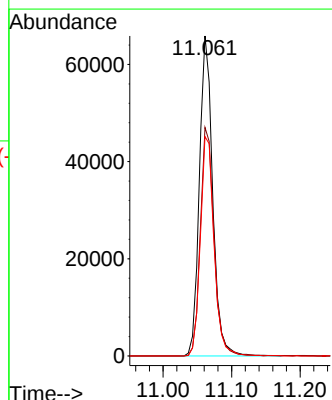
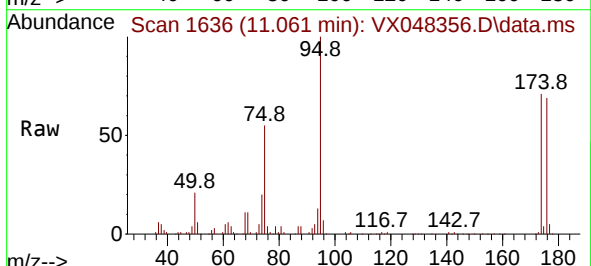
Tgt Ion: 95 Resp: 89353

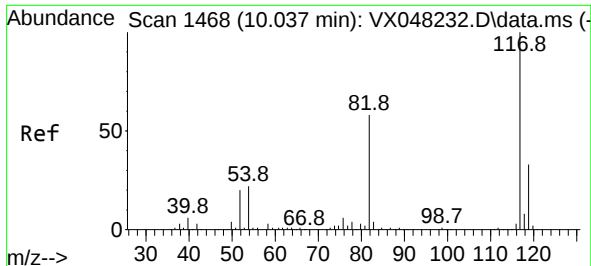
Ion Ratio Lower Upper

95 100

174 73.2 0.0 147.8

176 70.3 0.0 142.8

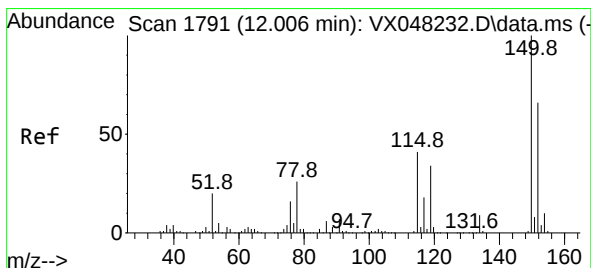
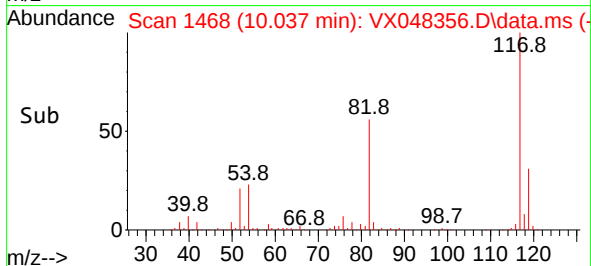
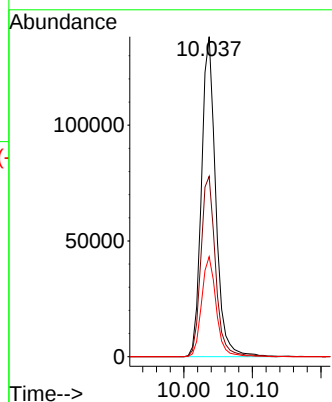
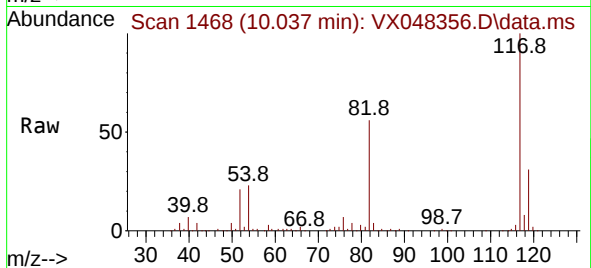




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

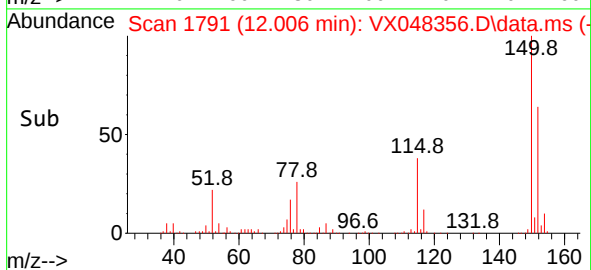
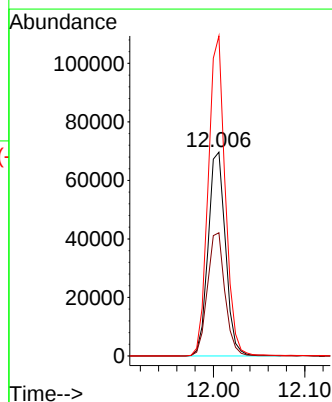
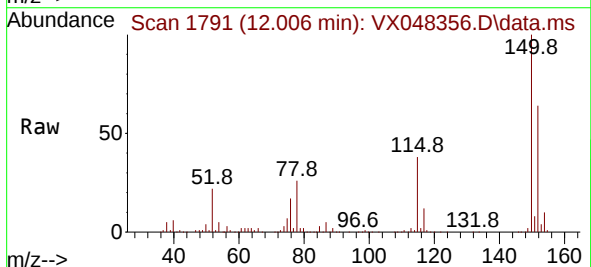
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

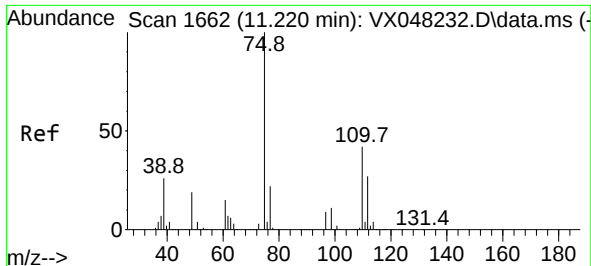
Tgt Ion:117 Resp: 200526
Ion Ratio Lower Upper
117 100
82 56.4 46.5 69.7
119 31.3 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion:152 Resp: 91743
Ion Ratio Lower Upper
152 100
115 61.1 43.1 129.4
150 153.9 0.0 353.0

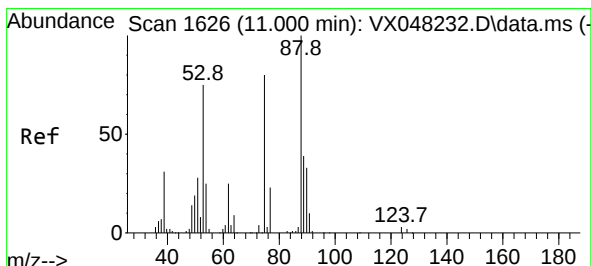
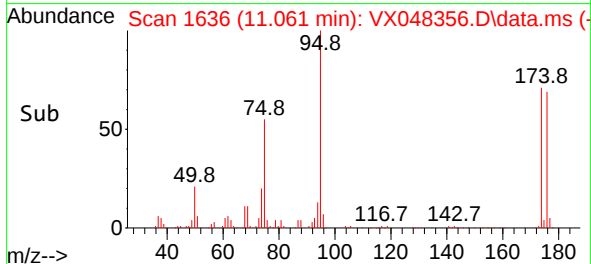
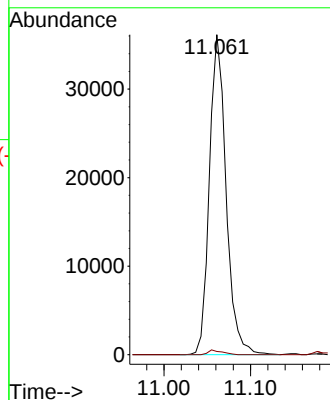
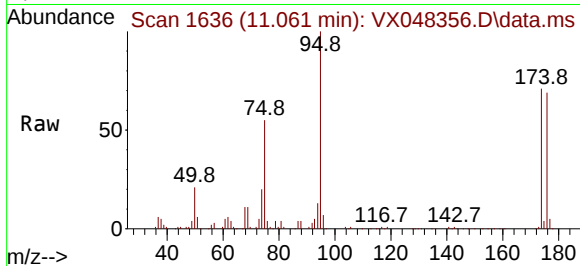




#76
1,2,3-Trichloropropane
Concen: 32.553 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.158 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

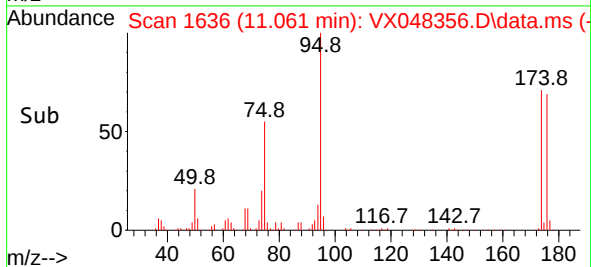
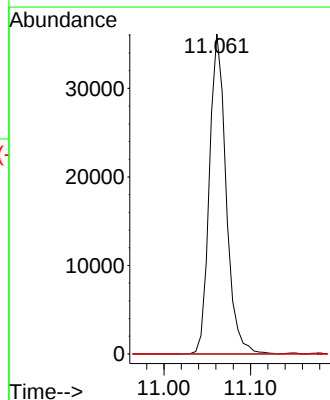
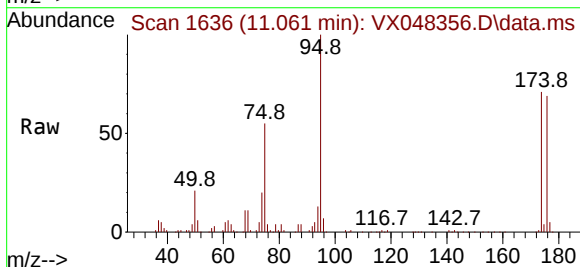
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

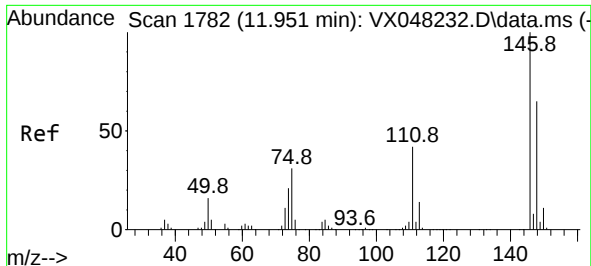
Tgt Ion: 75 Resp: 48431
Ion Ratio Lower Upper
75 100
77 1.2 22.4 67.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 79.199 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion: 75 Resp: 48431
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#

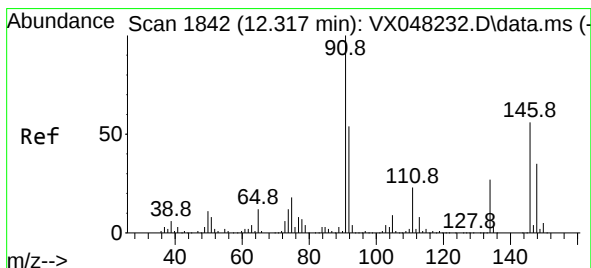
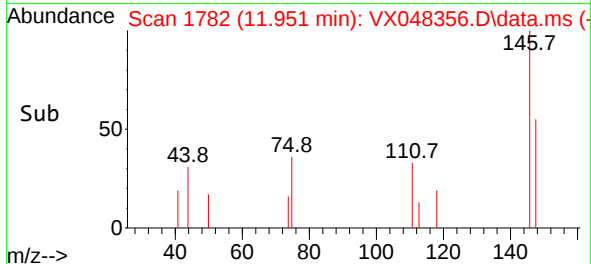
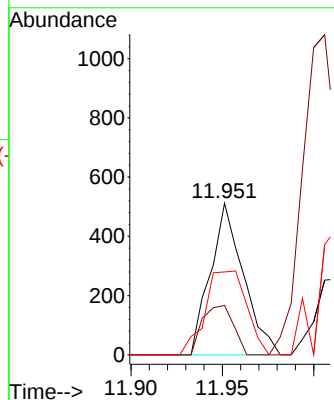
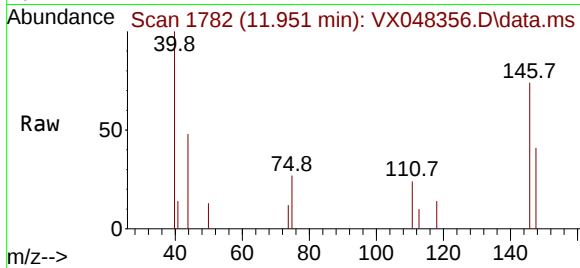




#87
1,3-Dichlorobenzene
Concen: 0.203 ug/l
RT: 11.951 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

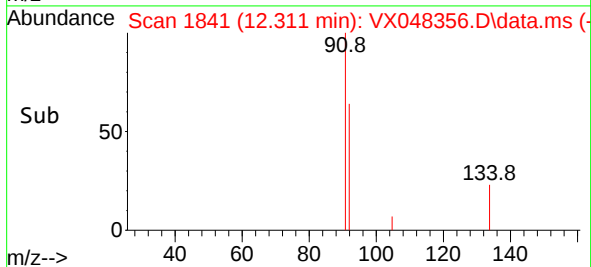
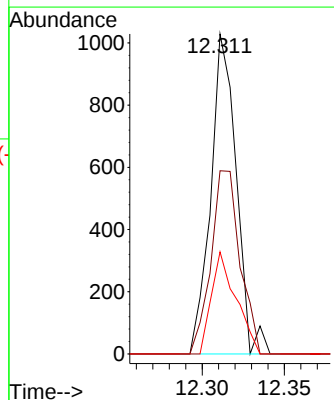
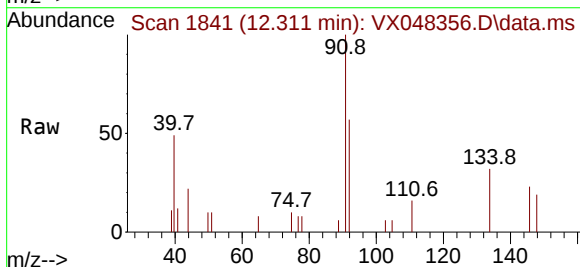
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

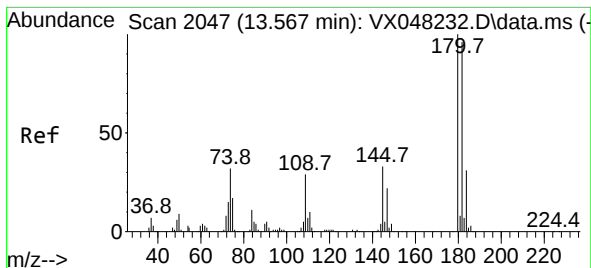
Tgt Ion:146 Resp: 644
Ion Ratio Lower Upper
146 100
111 30.4 20.4 61.2
148 69.3 31.9 95.9



#89
n-Butylbenzene
Concen: 0.205 ug/l
RT: 12.311 min Scan# 1841
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion: 91 Resp: 1107
Ion Ratio Lower Upper
91 100
92 65.3 26.9 80.6
134 30.8 12.7 38.1





#93

1,2,4-Trichlorobenzene

Concen: 0.381 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBL01

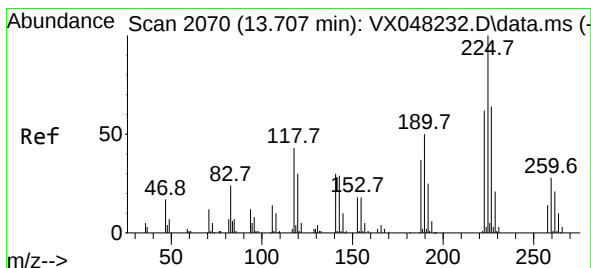
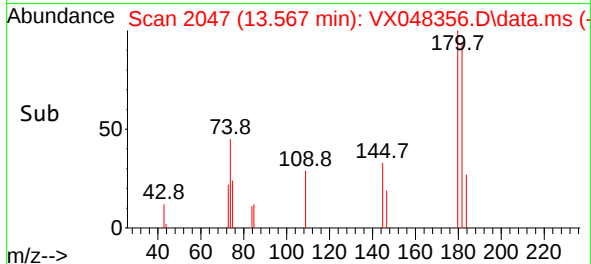
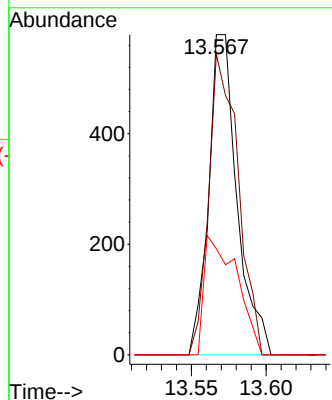
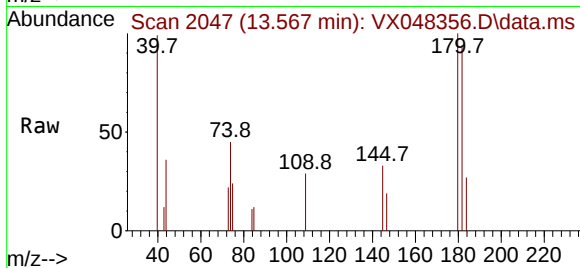
Tgt Ion:180 Resp: 767

Ion Ratio Lower Upper

180 100

182 97.4 47.3 142.0

145 42.6 16.3 48.9



#94

Hexachlorobutadiene

Concen: 0.562 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. 0.006 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

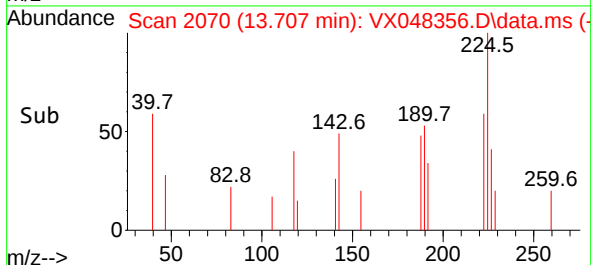
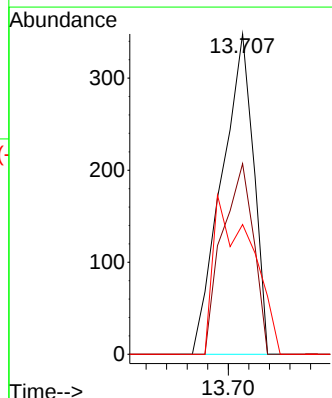
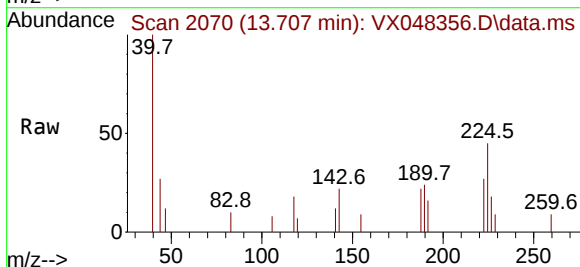
Tgt Ion:225 Resp: 374

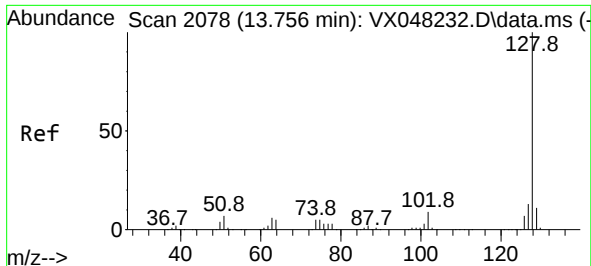
Ion Ratio Lower Upper

225 100

223 58.6 32.6 97.7

227 59.1 32.5 97.4

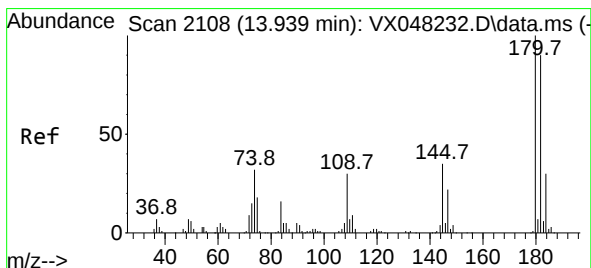
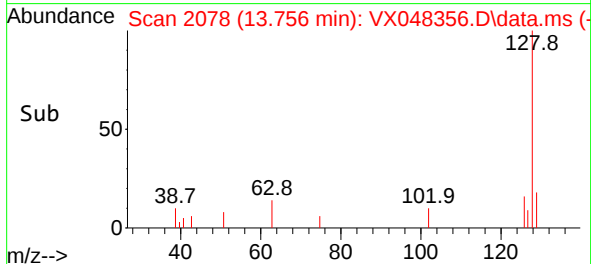
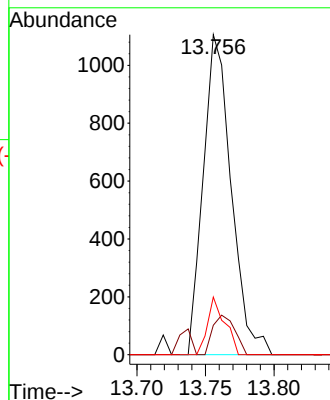
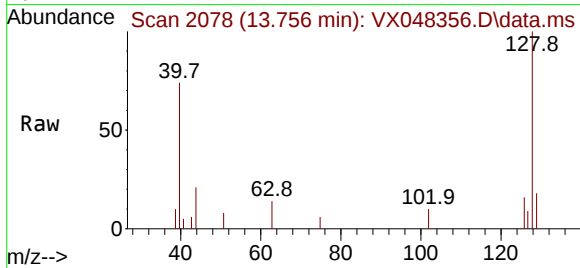




#95
Naphthalene
Concen: 0.295 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

Tgt Ion:128 Resp: 1571
Ion Ratio Lower Upper
128 100
127 9.7 10.2 15.4#
129 11.1 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 0.366 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX048356.D
Acq: 27 Oct 2025 09:37

Tgt Ion:180 Resp: 675
Ion Ratio Lower Upper
180 100
182 89.3 46.6 139.7
145 31.6 16.9 50.7

