

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102825\
 Data File : VX048383.D
 Acq On : 28 Oct 2025 09:06
 Operator : JC/MD
 Sample : VX1028MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1028MBL01

Quant Time: Oct 29 01:13:05 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)

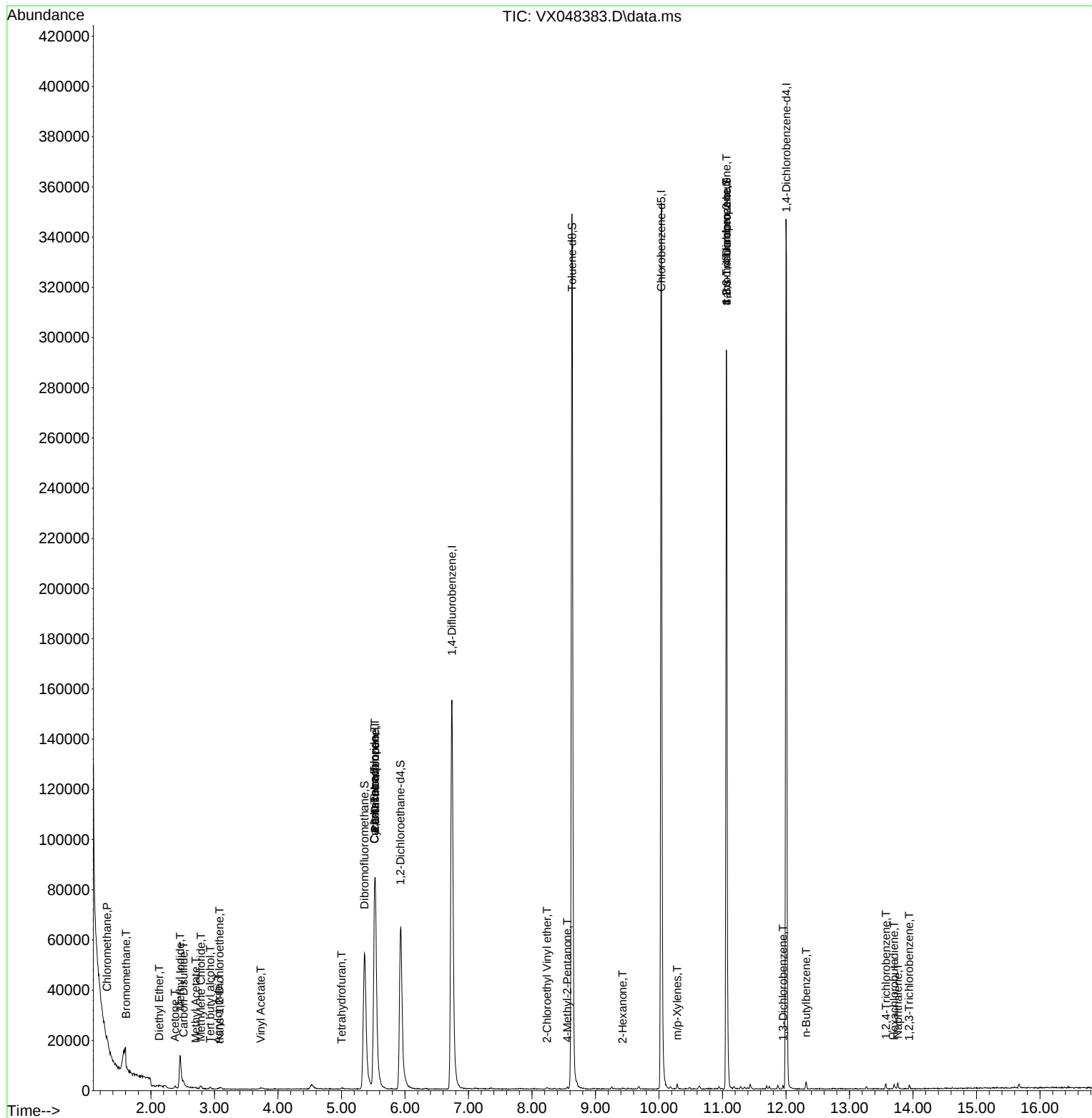
Internal Standards						
1) Pentafluorobenzene	5.532	168	90278	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	177517	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	171120	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	76493	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.928	65	75154	59.375	ug/l	-0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 118.740%#			
35) Dibromofluoromethane	5.361	113	55912	46.136	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.280%			
50) Toluene-d8	8.629	98	216878	51.056	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.120%			
62) 4-Bromofluorobenzene	11.061	95	83116	51.433	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.860%			
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	820	0.947	ug/l #	80
5) Bromomethane	1.605	94	203	0.373	ug/l #	57
8) Diethyl Ether	2.130	74	199	0.460	ug/l #	1
10) Methyl Iodide	2.459	142	21013	17.157	ug/l	97
11) Tert butyl alcohol	2.934	59	56	0.446	ug/l #	72
15) Acrylonitrile	3.063	53	229	0.505	ug/l #	53
16) Acetone	2.380	43	977	2.250	ug/l #	1
17) Carbon Disulfide	2.514	76	1196	0.400	ug/l #	92
18) Methyl Acetate	2.703	43	638	0.704	ug/l #	54
20) Methylene Chloride	2.788	84	694	0.656	ug/l #	73
21) trans-1,2-Dichloroethene	3.081	96	268	0.257	ug/l #	45
23) Vinyl Acetate	3.727	43	1294	0.516	ug/l #	73
29) Tetrahydrofuran	5.001	42	271	0.823	ug/l #	46
31) Cyclohexane	5.519	56	1911	1.216	ug/l #	41
36) 1,1-Dichloropropene	5.525	75	7798	4.527	ug/l #	48
38) Carbon Tetrachloride	5.519	117	9433	4.439	ug/l #	15
51) 4-Methyl-2-Pentanone	8.555	43	689	0.510	ug/l #	77
58) 2-Chloroethyl Vinyl ether	8.238	63	365	2.088	ug/l #	68
59) 2-Hexanone	9.427	43	379	0.402	ug/l #	57
68) m/p-Xylenes	10.287	106	624	0.256	ug/l	74
76) 1,2,3-Trichloropropane	11.061	75	43519	35.083	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.061	75	43519	85.354	ug/l #	10
87) 1,3-Dichlorobenzene	11.951	146	531	0.201	ug/l	84
89) n-Butylbenzene	12.317	91	1021	0.227	ug/l	92
93) 1,2,4-Trichlorobenzene	13.573	180	580	0.346	ug/l	98
94) Hexachlorobutadiene	13.701	225	250	0.464	ug/l	73
95) Naphthalene	13.762	128	1757	0.395	ug/l #	93
96) 1,2,3-Trichlorobenzene	13.939	180	560	0.364	ug/l	87

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

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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

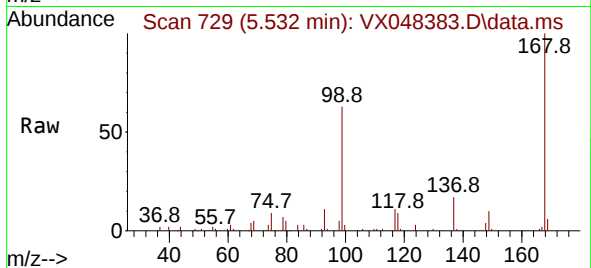
Quant Time: Oct 29 01:13:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



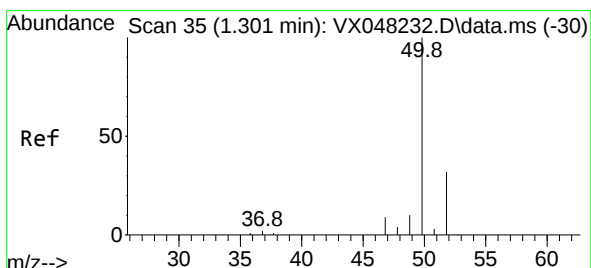
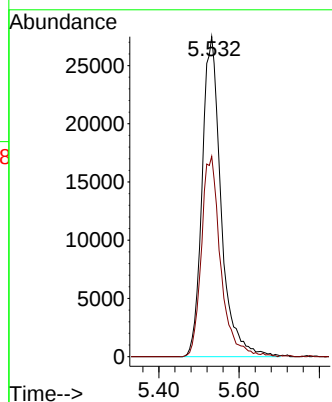
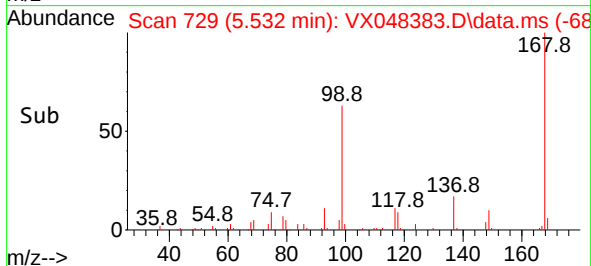


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

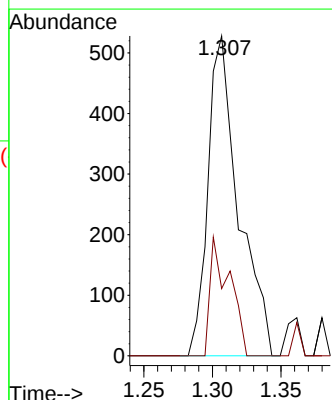
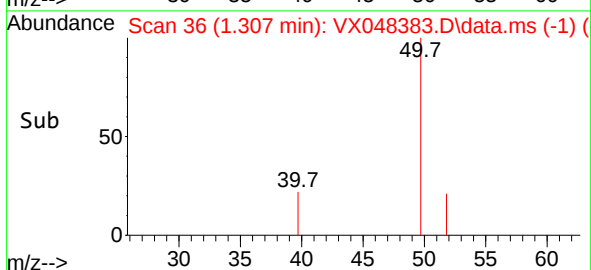
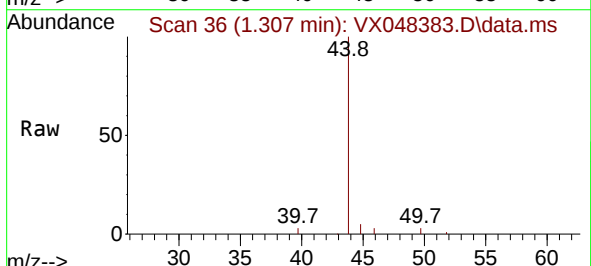


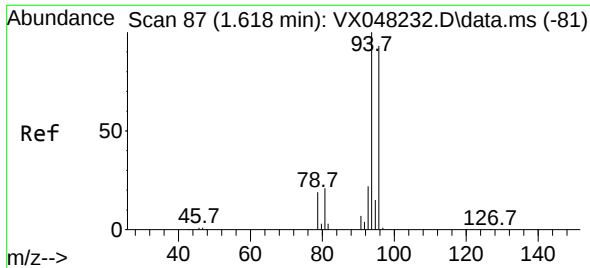
Tgt Ion:168 Resp: 90278
Ion Ratio Lower Upper
168 100
99 62.6 46.4 69.6



#3
Chloromethane
Concen: 0.947 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 50 Resp: 820
Ion Ratio Lower Upper
50 100
52 21.0 25.9 38.9#

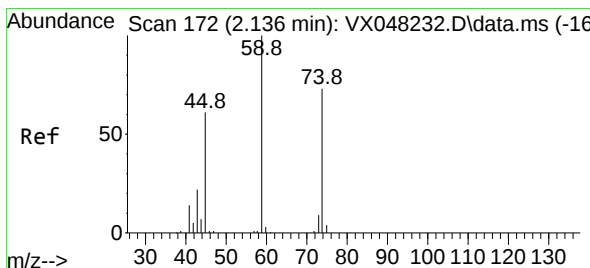
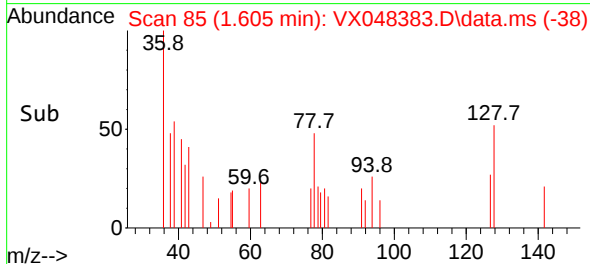
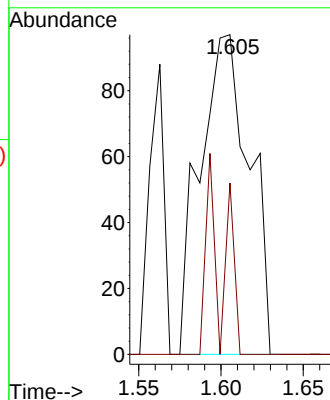
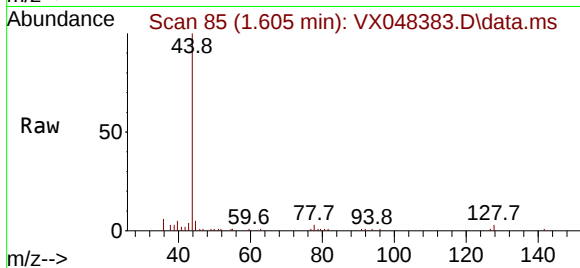




#5
Bromomethane
Concen: 0.373 ug/l
RT: 1.605 min Scan# 81
Delta R.T. -0.012 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

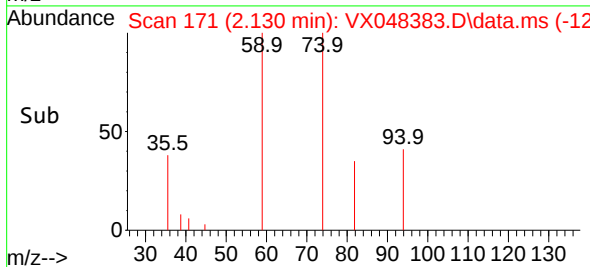
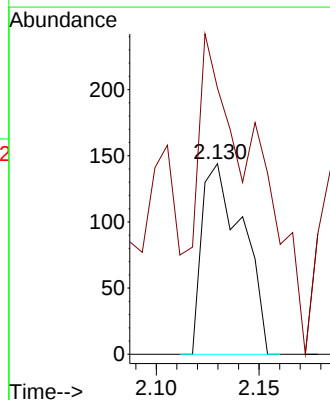
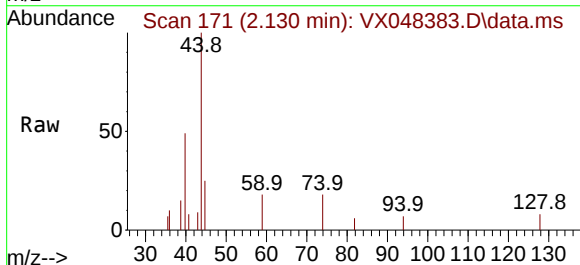
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

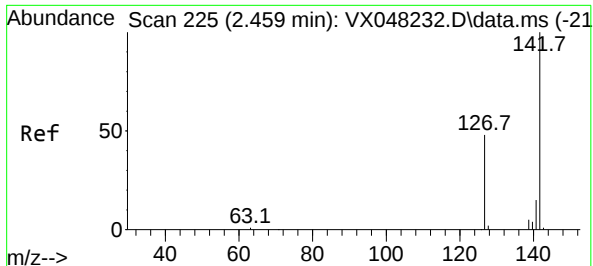
Tgt Ion: 94 Resp: 203
Ion Ratio Lower Upper
94 100
96 53.6 76.0 114.0#



#8
Diethyl Ether
Concen: 0.460 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 74 Resp: 199
Ion Ratio Lower Upper
74 100
45 241.2 50.0 149.8#

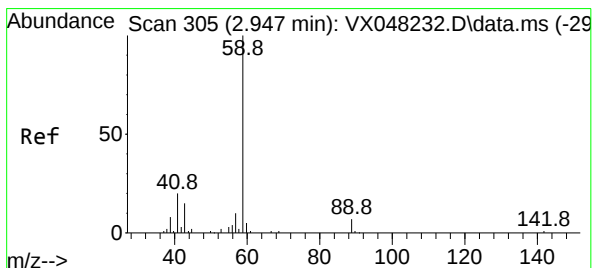
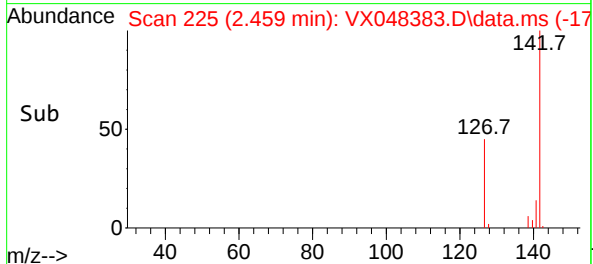
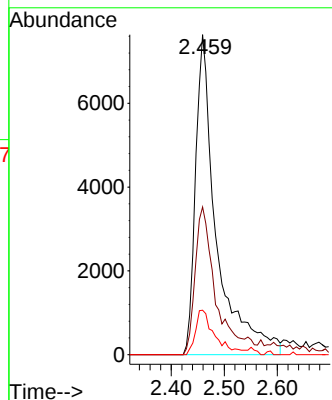
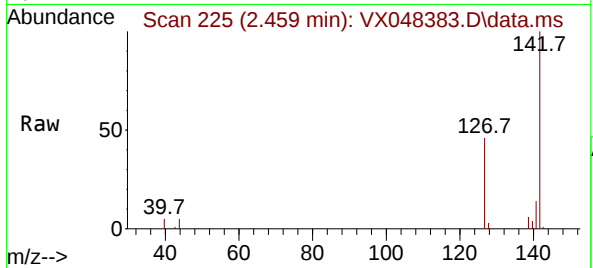




#10
Methyl Iodide
Concen: 17.157 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

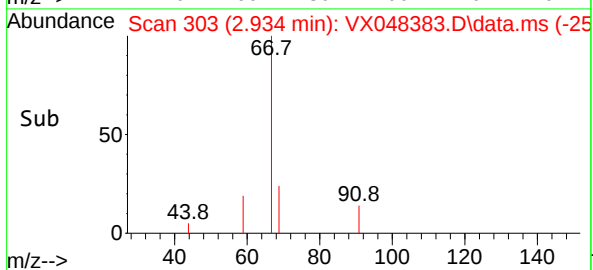
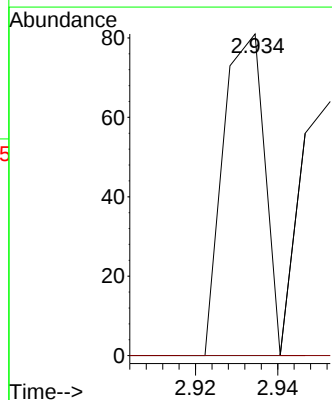
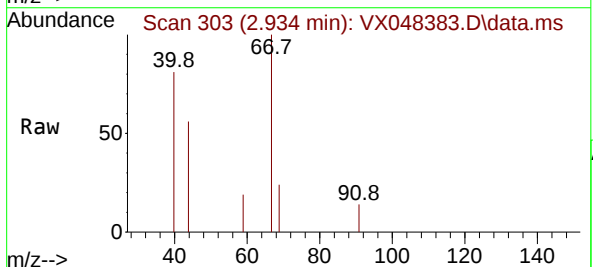
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

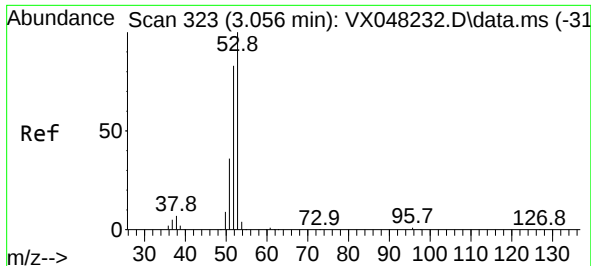
Tgt Ion:142 Resp: 21013
Ion Ratio Lower Upper
142 100
127 46.2 38.5 57.7
141 12.7 11.6 17.4



#11
Tert butyl alcohol
Concen: 0.446 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 59 Resp: 56
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

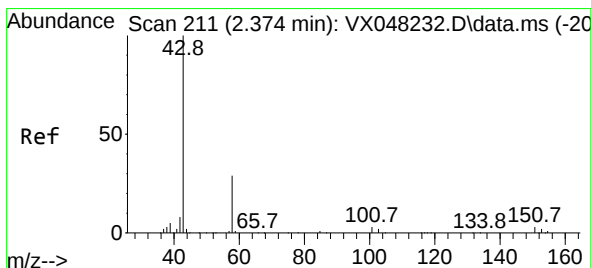
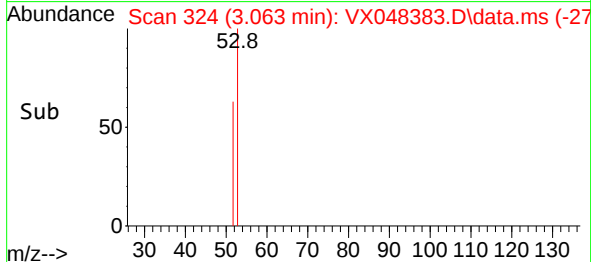
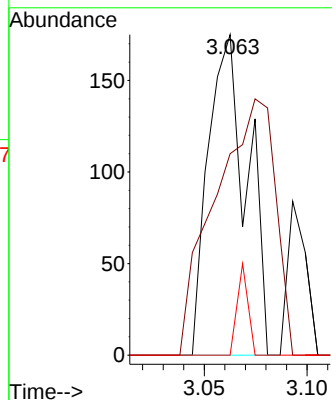
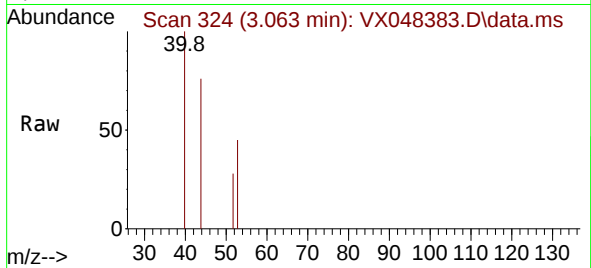




#15
Acrylonitrile
Concen: 0.505 ug/l
RT: 3.063 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

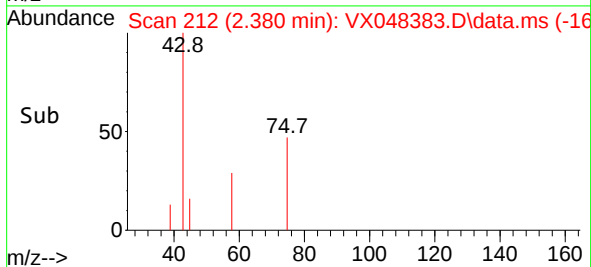
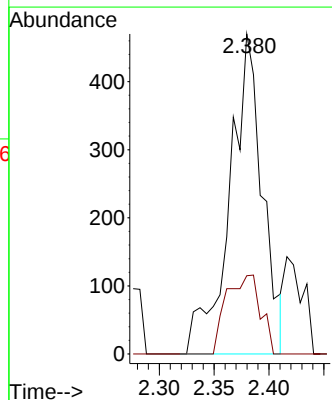
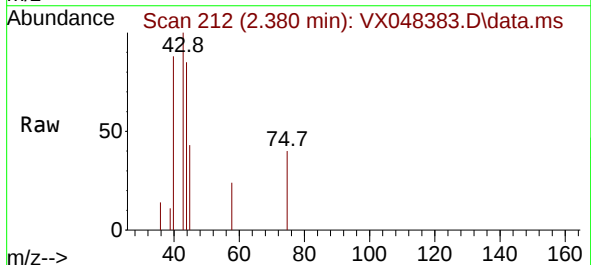
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

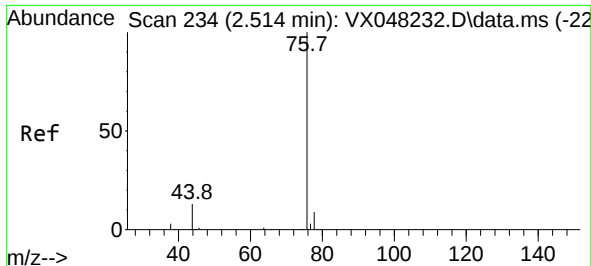
Tgt Ion: 53 Resp: 229
Ion Ratio Lower Upper
53 100
52 124.5 66.1 99.1#
51 7.9 29.0 43.4#



#16
Acetone
Concen: 2.250 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 43 Resp: 977
Ion Ratio Lower Upper
43 100
58 138.6 23.4 35.2#





#17

Carbon Disulfide

Concen: 0.400 ug/l

RT: 2.514 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

Instrument :

MSVOA_X

ClientSampleId :

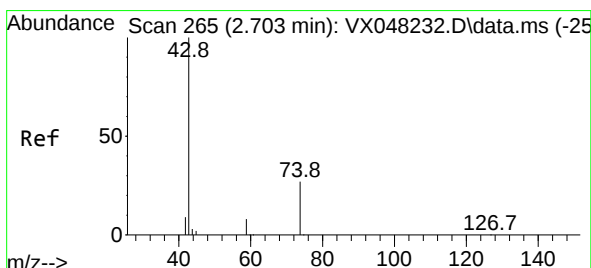
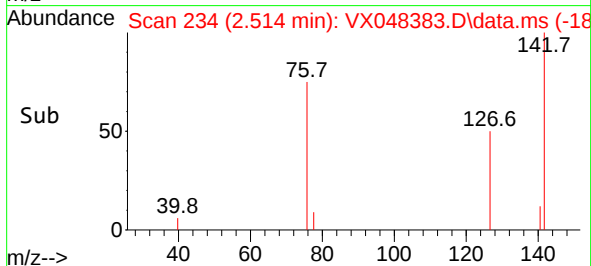
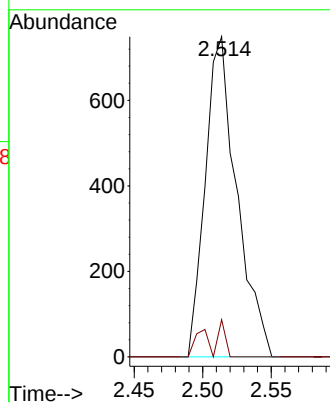
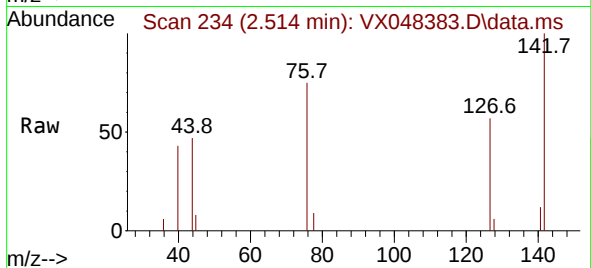
VX1028MBL01

Tgt Ion: 76 Resp: 1196

Ion Ratio Lower Upper

76 100

78 11.6 7.1 10.7#



#18

Methyl Acetate

Concen: 0.704 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX048383.D

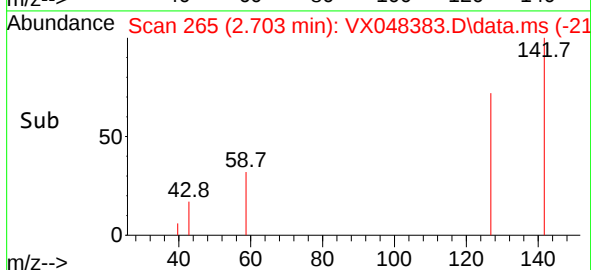
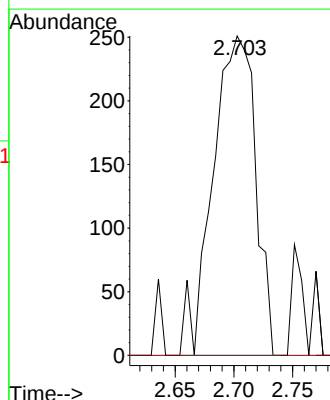
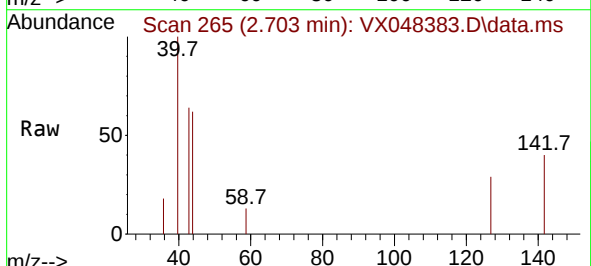
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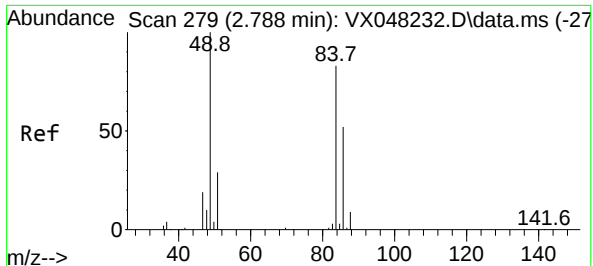
Tgt Ion: 43 Resp: 638

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

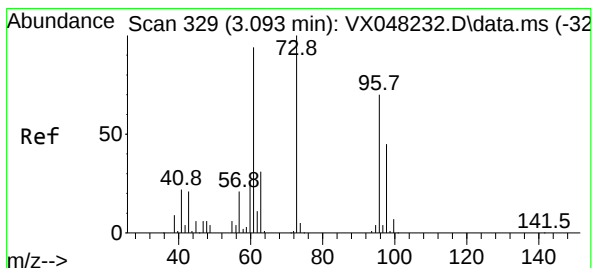
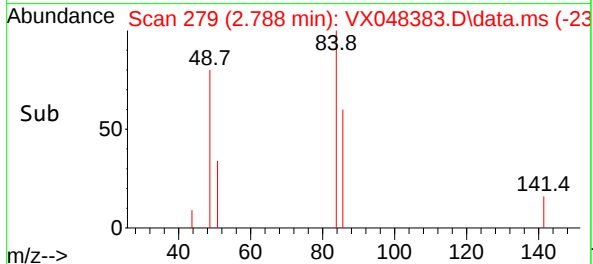
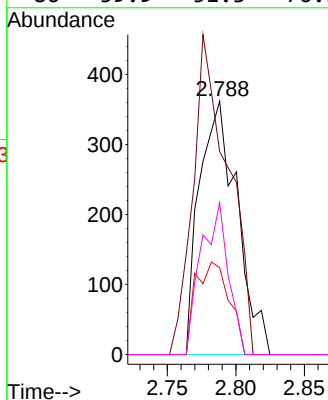
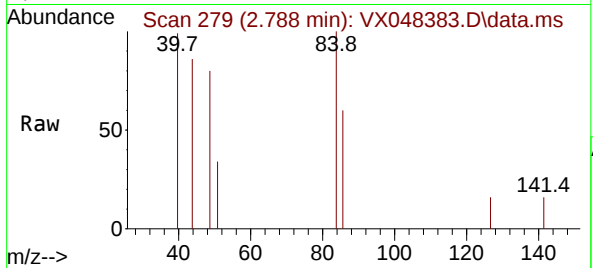




#20
Methylene Chloride
Concen: 0.656 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

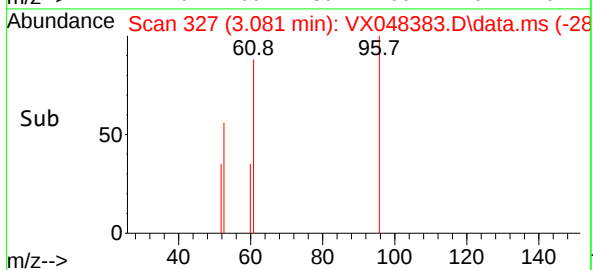
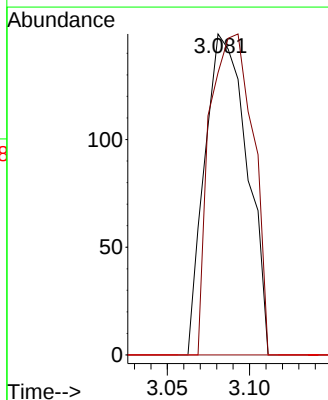
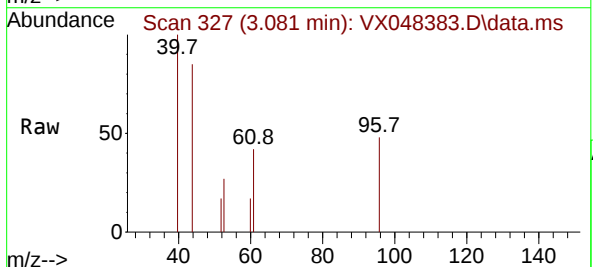
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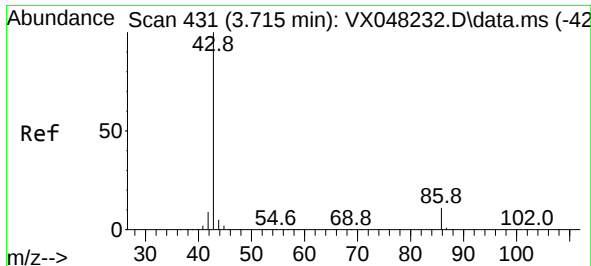
Tgt Ion:	84	Resp:	694
Ion	Ratio	Lower	Upper
84	100		
49	80.1	104.1	156.1#
51	34.3	31.3	46.9
86	59.9	51.3	76.9



#21
trans-1,2-Dichloroethene
Concen: 0.257 ug/l
RT: 3.081 min Scan# 327
Delta R.T. -0.012 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion:	96	Resp:	268
Ion	Ratio	Lower	Upper
96	100		
61	87.9	111.9	167.9#
98	0.0	51.2	76.8#

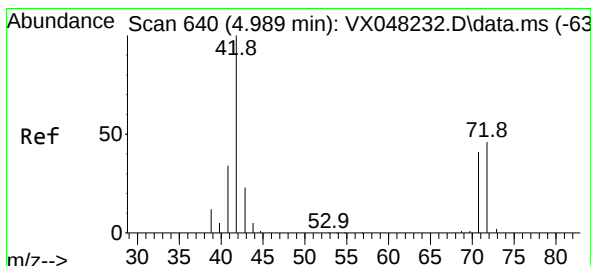
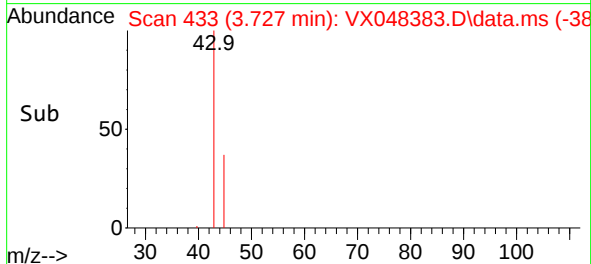
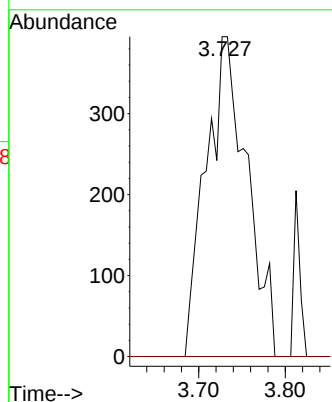
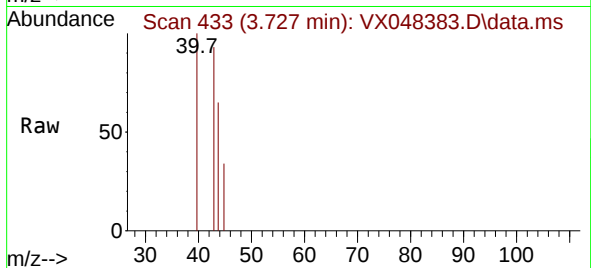




#23
 Vinyl Acetate
 Concen: 0.516 ug/l
 RT: 3.727 min Scan# 41
 Delta R.T. 0.012 min
 Lab File: VX048383.D
 Acq: 28 Oct 2025 09:06

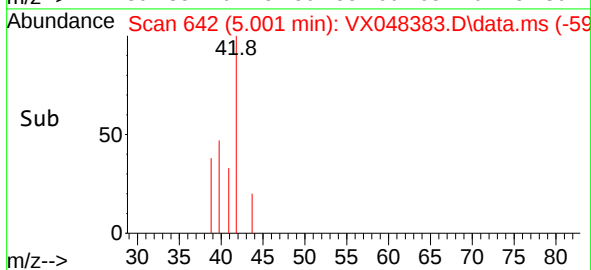
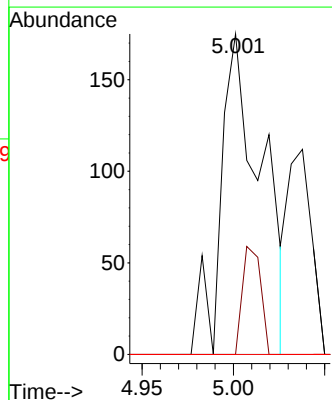
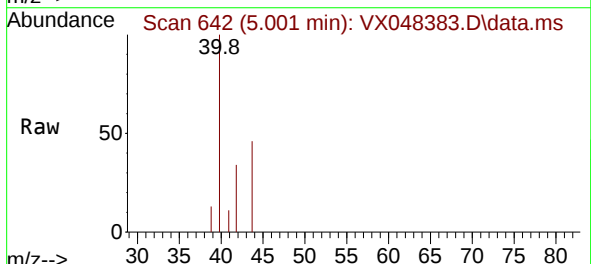
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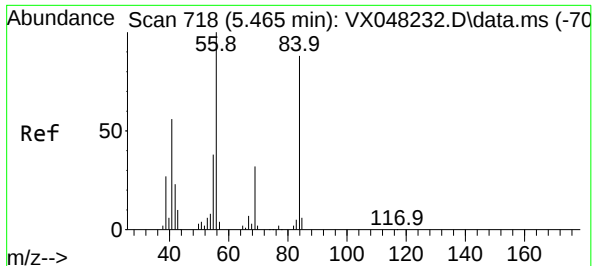
Tgt Ion: 43 Resp: 1294
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.9 11.9#



#29
 Tetrahydrofuran
 Concen: 0.823 ug/l
 RT: 5.001 min Scan# 642
 Delta R.T. 0.012 min
 Lab File: VX048383.D
 Acq: 28 Oct 2025 09:06

Tgt Ion: 42 Resp: 271
 Ion Ratio Lower Upper
 42 100
 72 15.1 35.3 52.9#
 71 0.0 32.2 48.4#

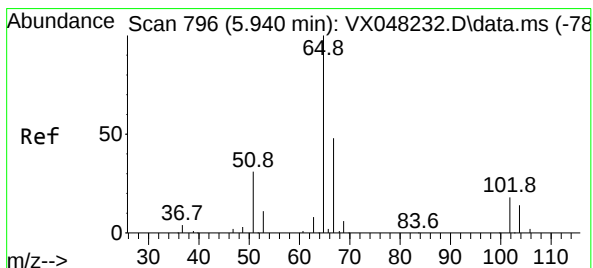
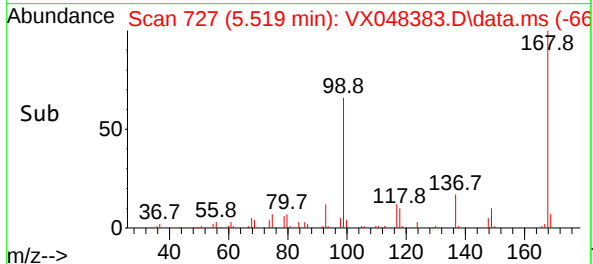
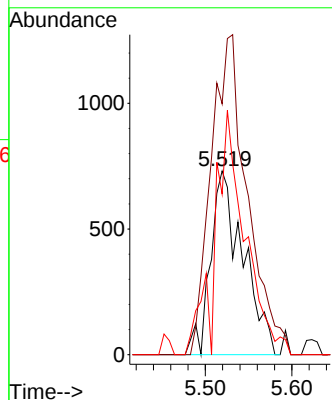
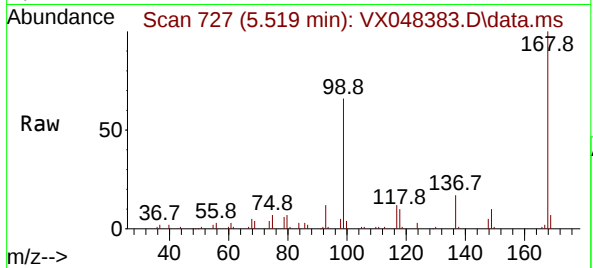




#31
Cyclohexane
Concen: 1.216 ug/l
RT: 5.519 min Scan# 718
Delta R.T. 0.061 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

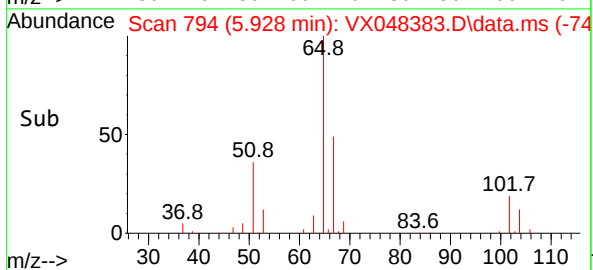
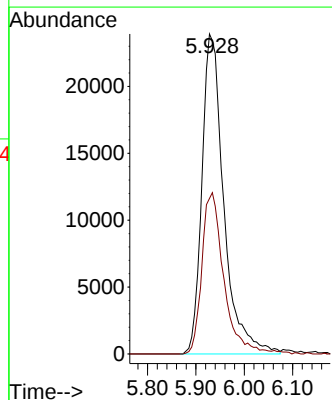
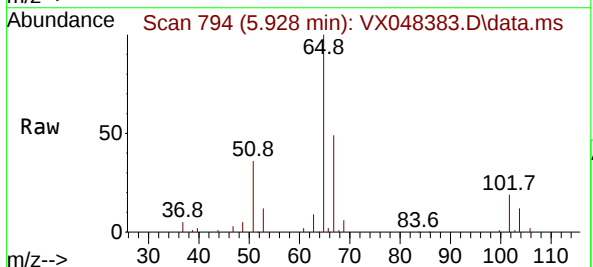
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

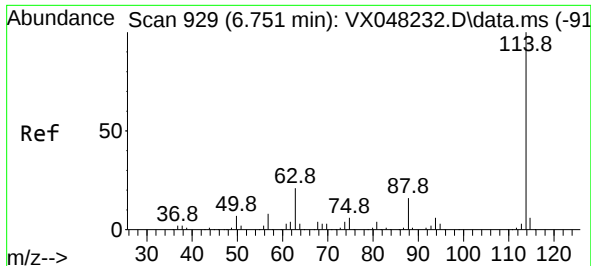
Tgt Ion: 56 Resp: 1911
Ion Ratio Lower Upper
56 100
69 136.5 23.0 34.6#
84 87.4 64.6 97.0



#33
1,2-Dichloroethane-d4
Concen: 59.375 ug/l
RT: 5.928 min Scan# 794
Delta R.T. -0.012 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 65 Resp: 75154
Ion Ratio Lower Upper
65 100
67 50.8 0.0 105.0

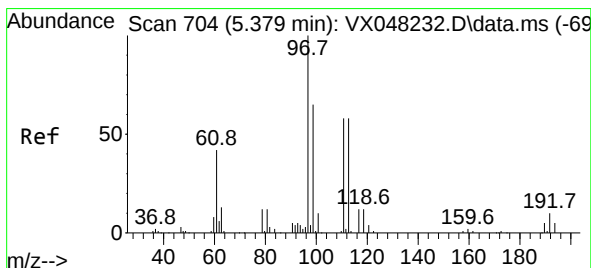
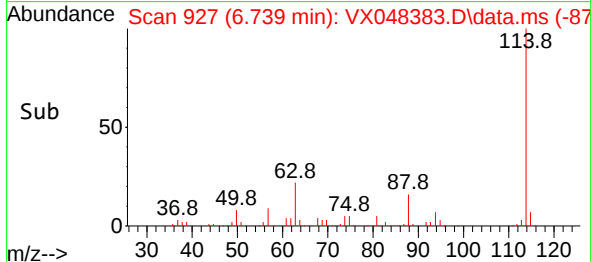
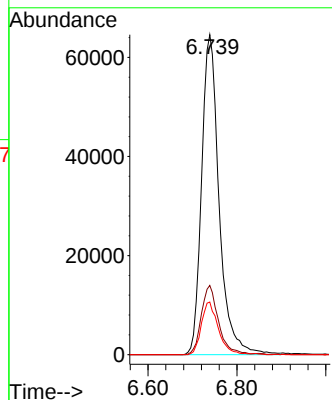
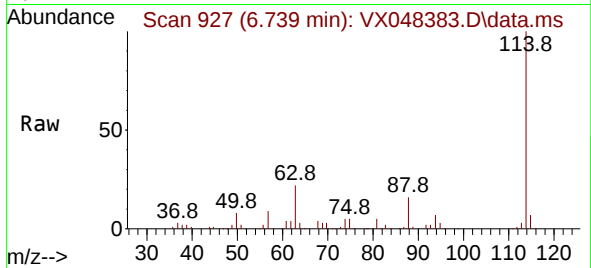




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

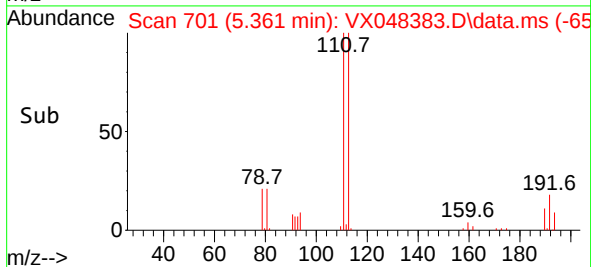
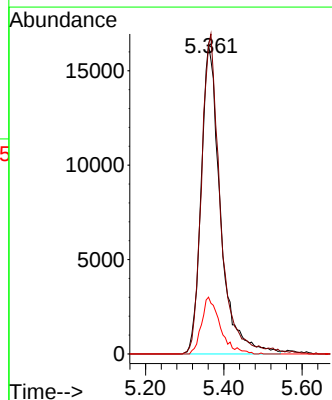
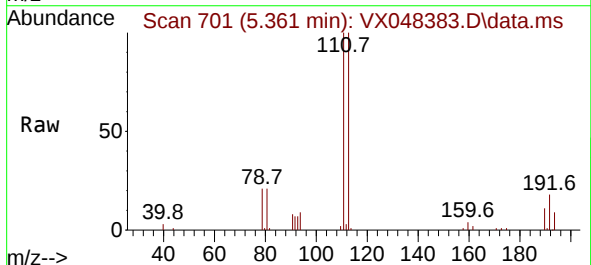
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

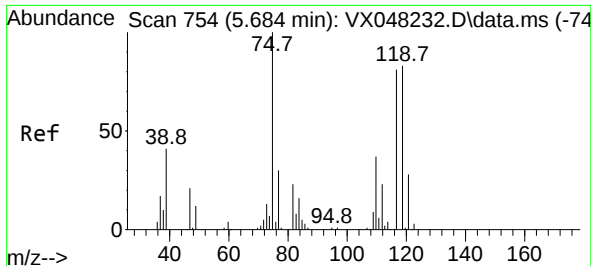
Tgt Ion:114 Resp: 177517
Ion Ratio Lower Upper
114 100
63 21.7 0.0 43.2
88 16.5 0.0 33.6



#35
Dibromofluoromethane
Concen: 46.136 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion:113 Resp: 55912
Ion Ratio Lower Upper
113 100
111 100.3 82.2 123.4
192 17.8 15.1 22.7





#36

1,1-Dichloropropene

Concen: 4.527 ug/l

RT: 5.525 min Scan# 71

Delta R.T. -0.158 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

Instrument :

MSVOA_X

ClientSampleId :

VX1028MBL01

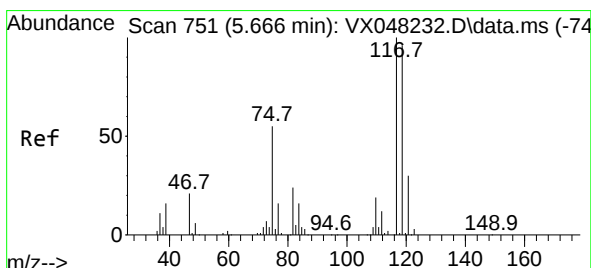
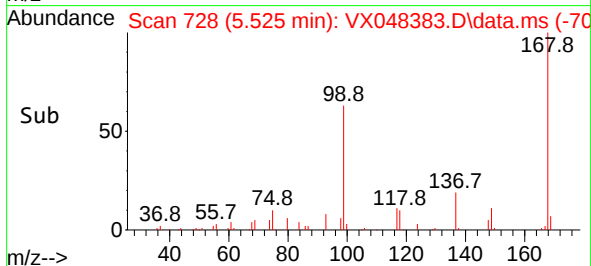
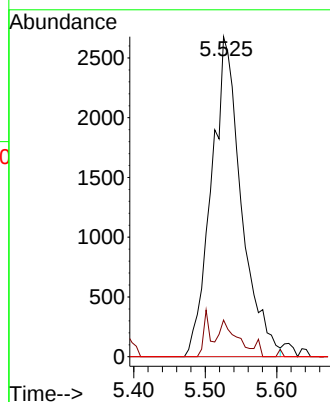
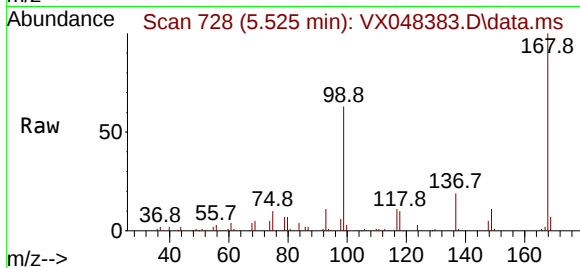
Tgt Ion: 75 Resp: 7798

Ion Ratio Lower Upper

75 100

110 6.8 17.7 53.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 4.439 ug/l

RT: 5.519 min Scan# 727

Delta R.T. -0.146 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

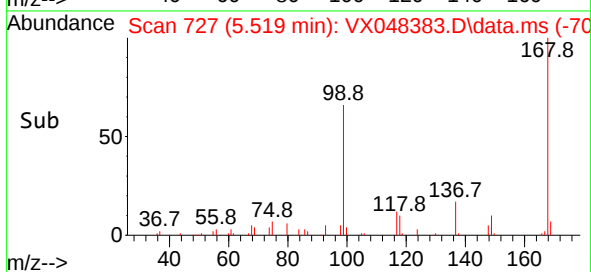
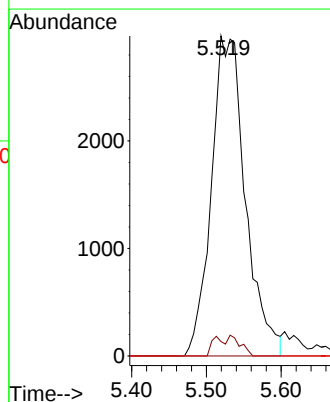
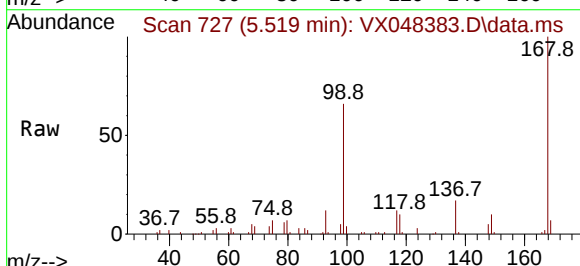
Tgt Ion: 117 Resp: 9433

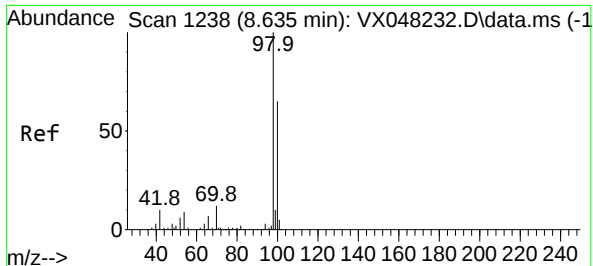
Ion Ratio Lower Upper

117 100

119 4.5 77.2 115.8#

121 0.0 24.8 37.2#

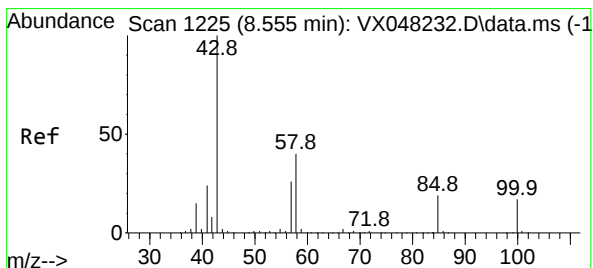
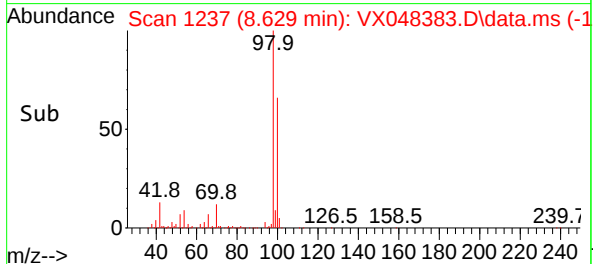
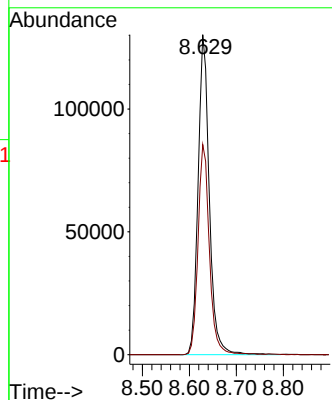
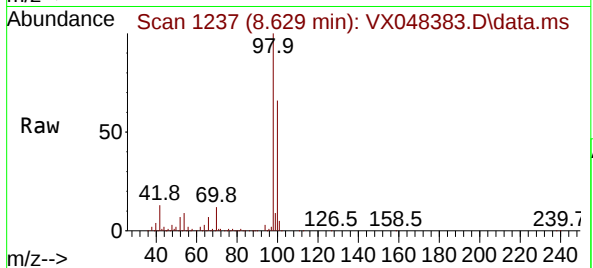




#50
Toluene-d8
Concen: 51.056 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

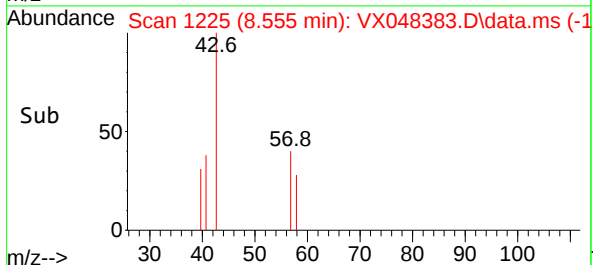
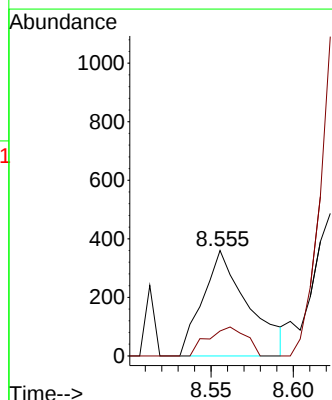
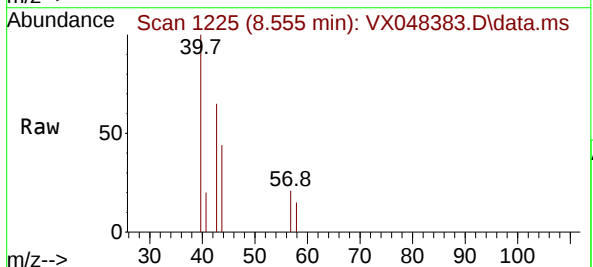
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

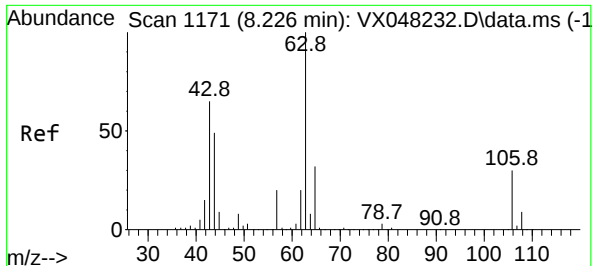
Tgt Ion: 98 Resp: 216878
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.510 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. 0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 43 Resp: 689
Ion Ratio Lower Upper
43 100
58 23.4 29.5 44.3#





#58

2-Chloroethyl Vinyl ether

Concen: 2.088 ug/l

RT: 8.238 min Scan# 1171

Delta R.T. 0.012 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

Instrument :

MSVOA_X

ClientSampleId :

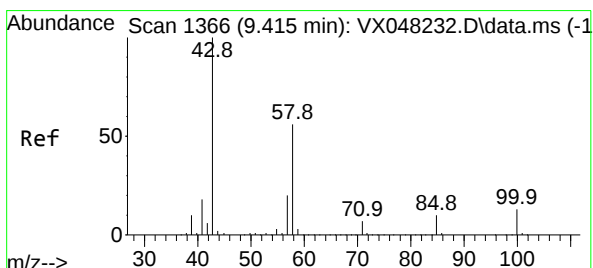
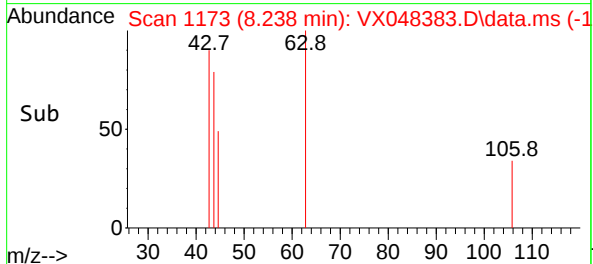
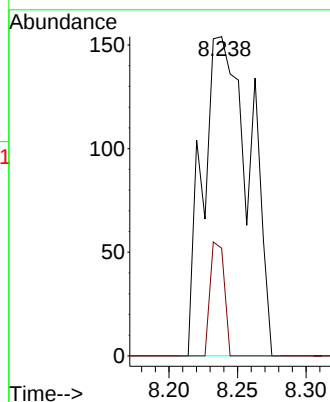
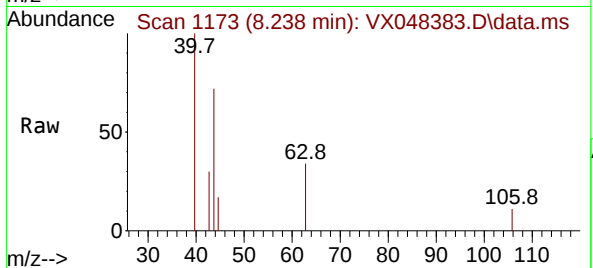
VX1028MBL01

Tgt Ion: 63 Resp: 365

Ion Ratio Lower Upper

63 100

106 10.7 22.2 33.2#



#59

2-Hexanone

Concen: 0.402 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.012 min

Lab File: VX048383.D

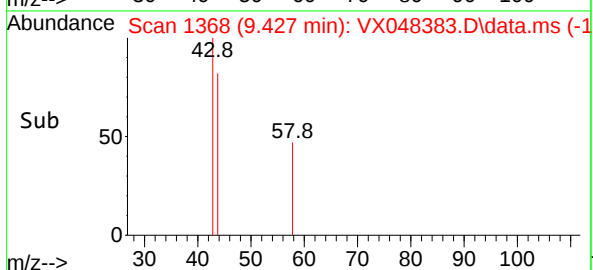
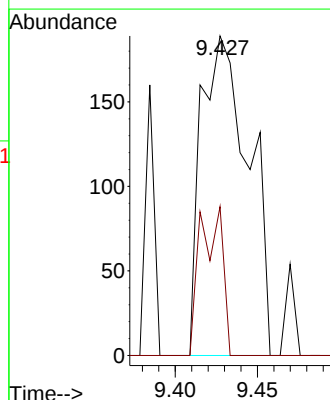
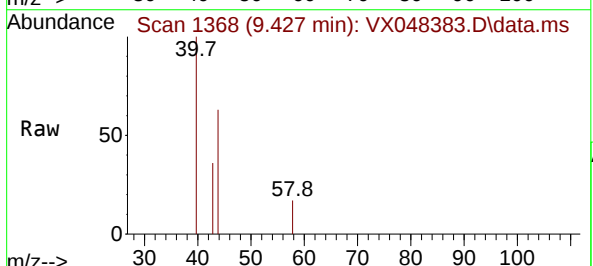
Acq: 28 Oct 2025 09:06

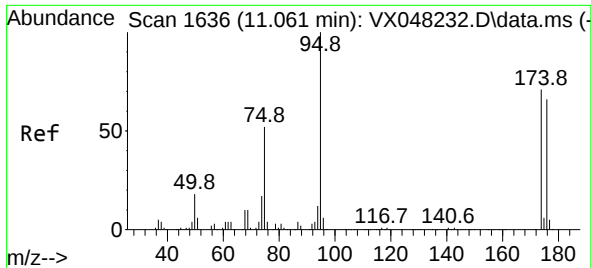
Tgt Ion: 43 Resp: 379

Ion Ratio Lower Upper

43 100

58 22.2 26.3 78.8#

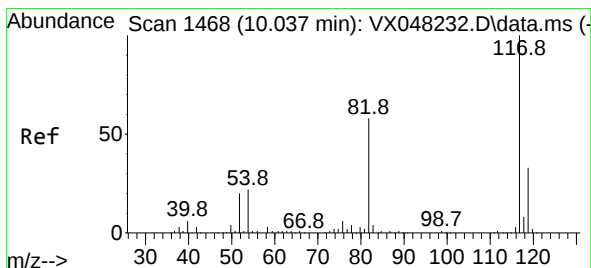
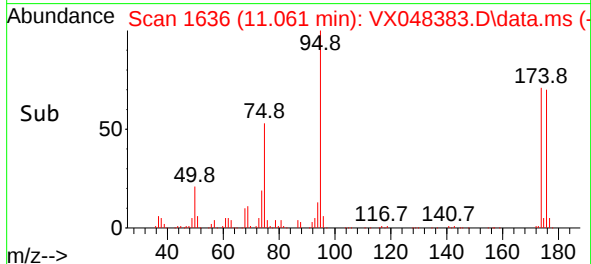
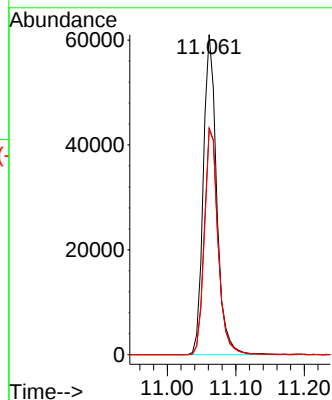
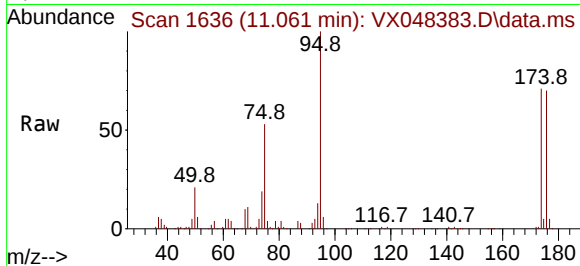




#62
4-Bromofluorobenzene
Concen: 51.433 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

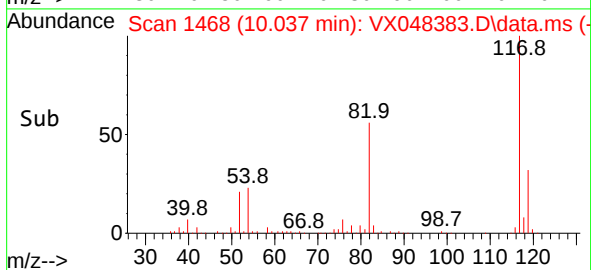
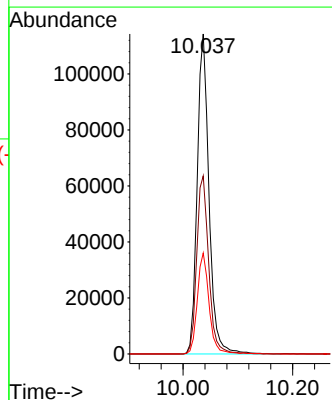
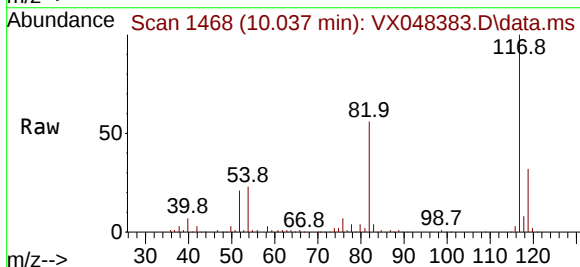
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

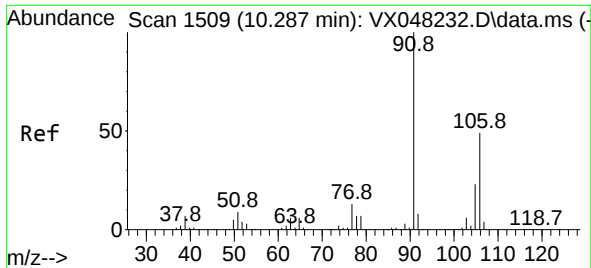
Tgt Ion: 95 Resp: 83116
Ion Ratio Lower Upper
95 100
174 72.6 0.0 147.8
176 71.6 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 117 Resp: 171120
Ion Ratio Lower Upper
117 100
82 55.6 46.5 69.7
119 31.5 25.9 38.9

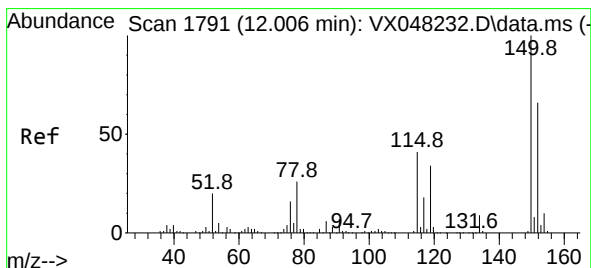
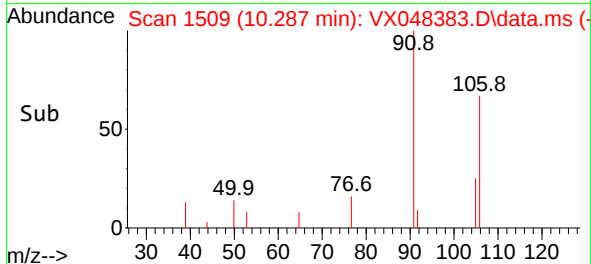
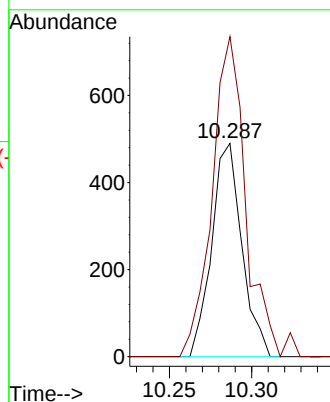
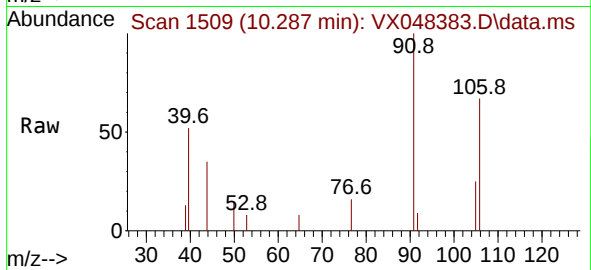




#68
m/p-Xylenes
Concen: 0.256 ug/l
RT: 10.287 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

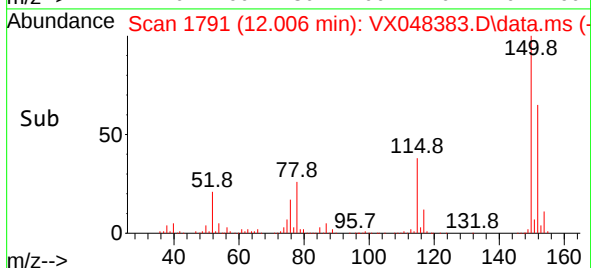
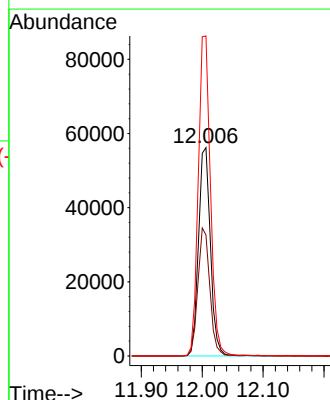
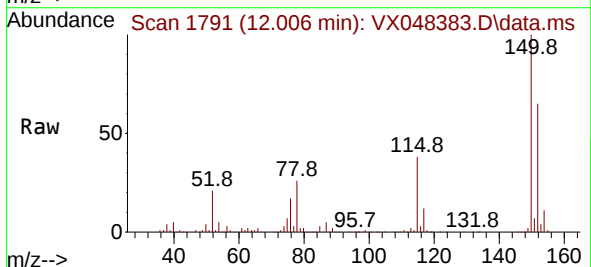
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

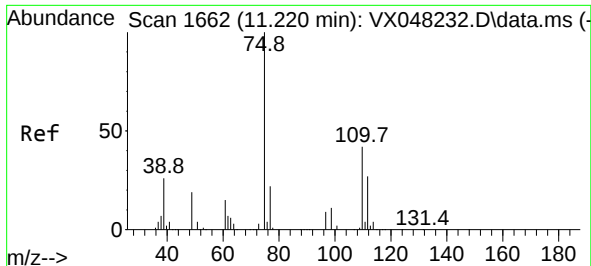
Tgt Ion:106 Resp: 624
Ion Ratio Lower Upper
106 100
91 169.1 167.9 251.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion:152 Resp: 76493
Ion Ratio Lower Upper
152 100
115 61.2 43.1 129.4
150 156.4 0.0 353.0

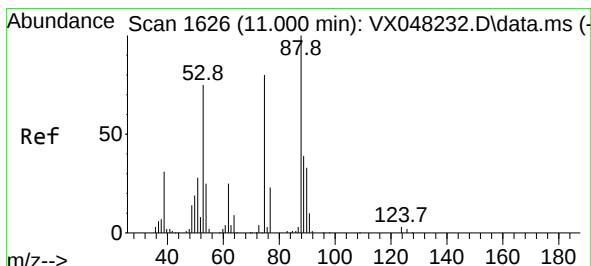
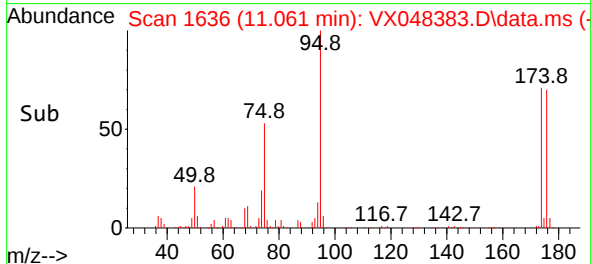
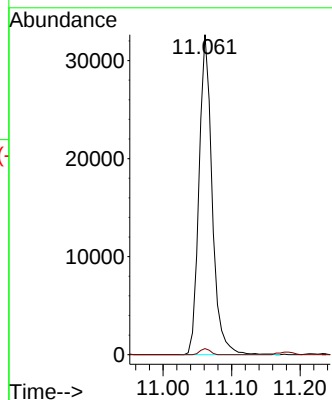
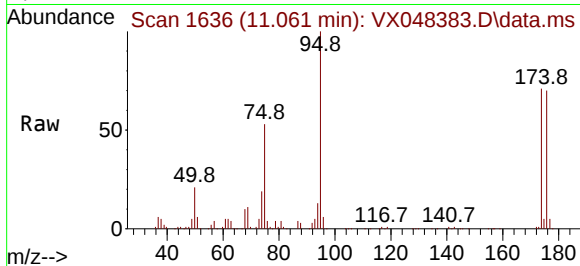




#76
1,2,3-Trichloropropane
Concen: 35.083 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.158 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

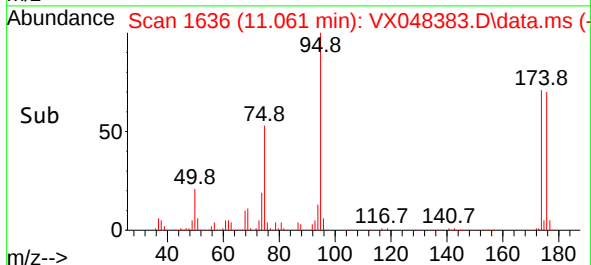
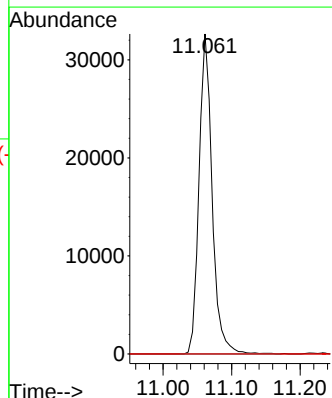
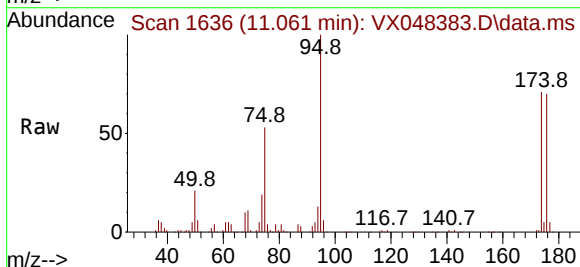
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

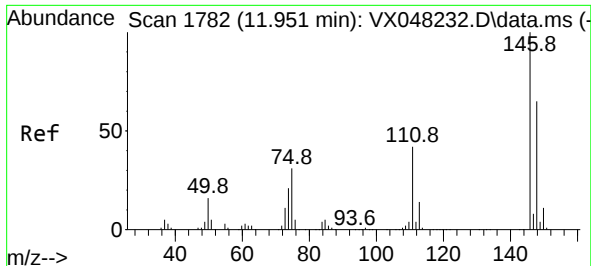
Tgt Ion: 75 Resp: 43519
Ion Ratio Lower Upper
75 100
77 1.5 22.4 67.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 85.354 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion: 75 Resp: 43519
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: 0.201 ug/l

RT: 11.951 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

Instrument :

MSVOA_X

ClientSampleId :

VX1028MBL01

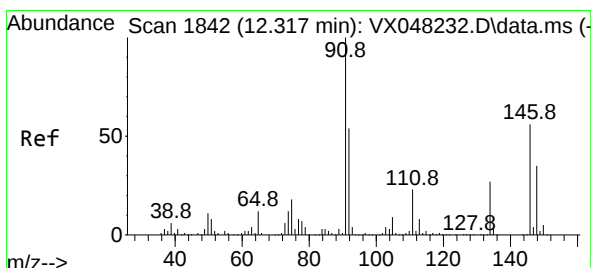
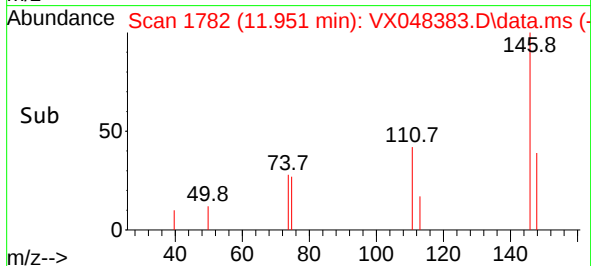
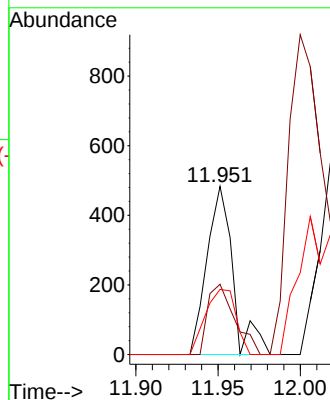
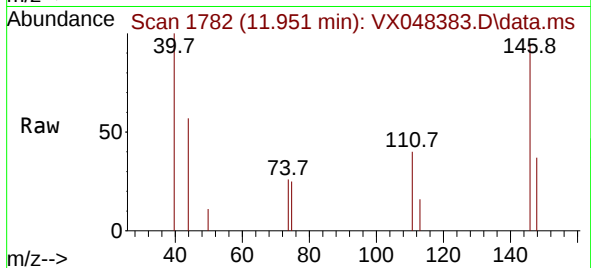
Tgt Ion:146 Resp: 531

Ion Ratio Lower Upper

146 100

111 43.5 20.4 61.2

148 45.2 31.9 95.9



#89

n-Butylbenzene

Concen: 0.227 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

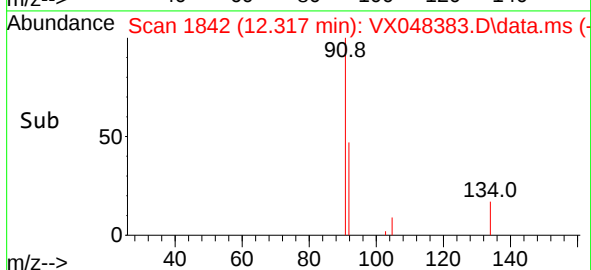
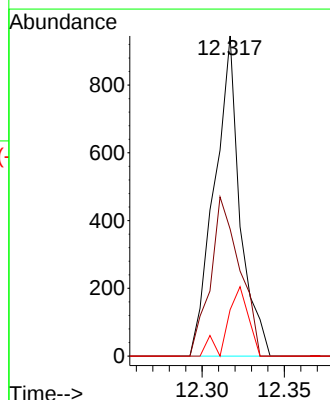
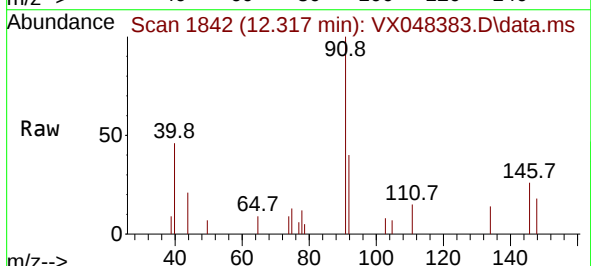
Tgt Ion: 91 Resp: 1021

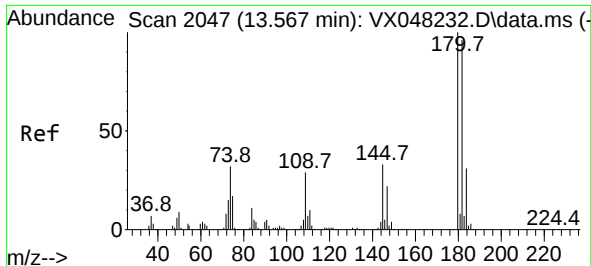
Ion Ratio Lower Upper

91 100

92 56.9 26.9 80.6

134 18.0 12.7 38.1

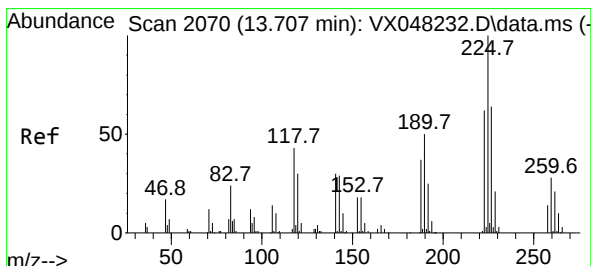
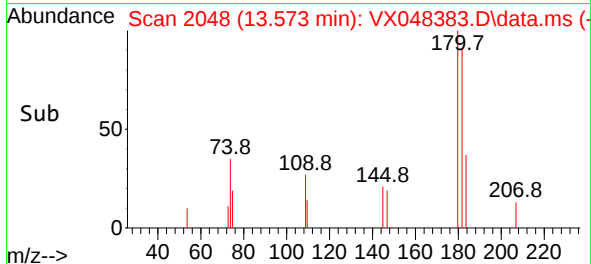
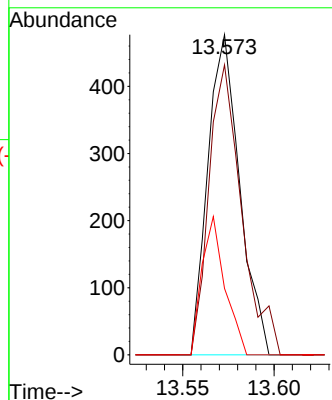
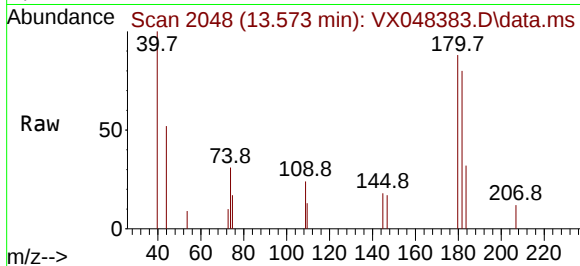




#93
1,2,4-Trichlorobenzene
Concen: 0.346 ug/l
RT: 13.573 min Scan# 2047
Delta R.T. 0.006 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

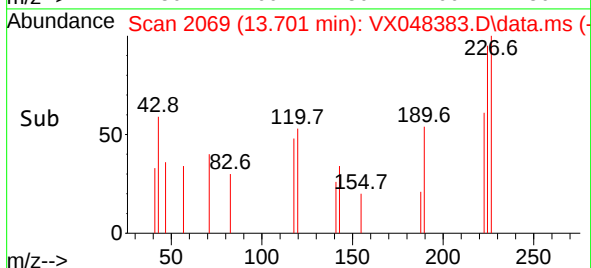
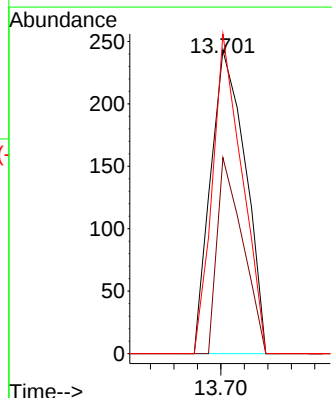
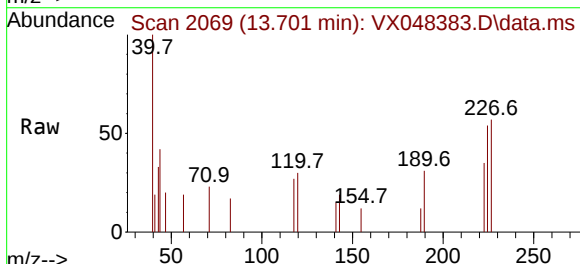
Instrument :
MSVOA_X
ClientSampleId :
VX1028MBL01

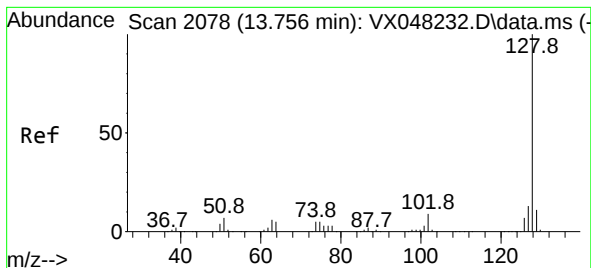
Tgt Ion:180 Resp: 580
Ion Ratio Lower Upper
180 100
182 92.6 47.3 142.0
145 31.2 16.3 48.9



#94
Hexachlorobutadiene
Concen: 0.464 ug/l
RT: 13.701 min Scan# 2069
Delta R.T. -0.000 min
Lab File: VX048383.D
Acq: 28 Oct 2025 09:06

Tgt Ion:225 Resp: 250
Ion Ratio Lower Upper
225 100
223 47.6 32.6 97.7
227 89.6 32.5 97.4





#95

Naphthalene

Concen: 0.395 ug/l

RT: 13.762 min Scan# 2078

Delta R.T. 0.006 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

Instrument :

MSVOA_X

ClientSampleId :

VX1028MBL01

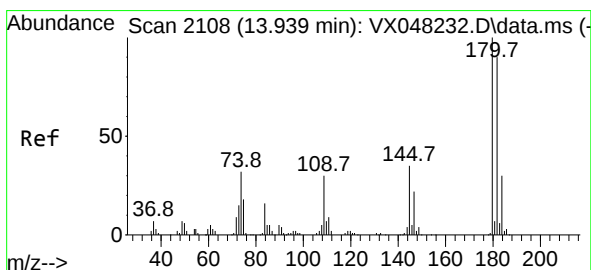
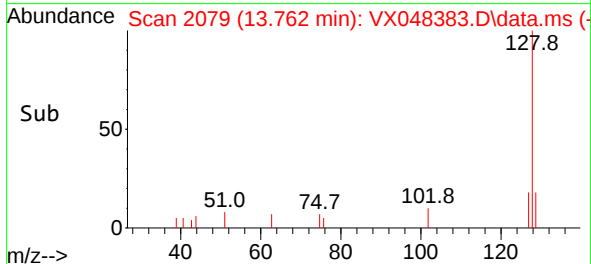
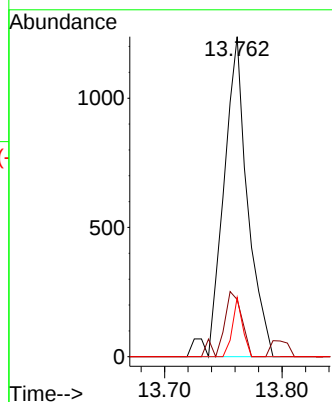
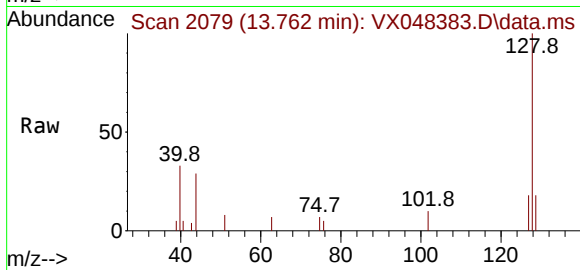
Tgt Ion:128 Resp: 1757

Ion Ratio Lower Upper

128 100

127 15.5 10.2 15.4#

129 7.9 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 0.364 ug/l

RT: 13.939 min Scan# 2108

Delta R.T. 0.000 min

Lab File: VX048383.D

Acq: 28 Oct 2025 09:06

Tgt Ion:180 Resp: 560

Ion Ratio Lower Upper

180 100

182 83.8 46.6 139.7

145 21.1 16.9 50.7

