

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
 Data File : VX048127.D
 Acq On : 13 Oct 2025 09:26
 Operator : JC/MD
 Sample : VX1013MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1013MBL01

Quant Time: Oct 14 01:49:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

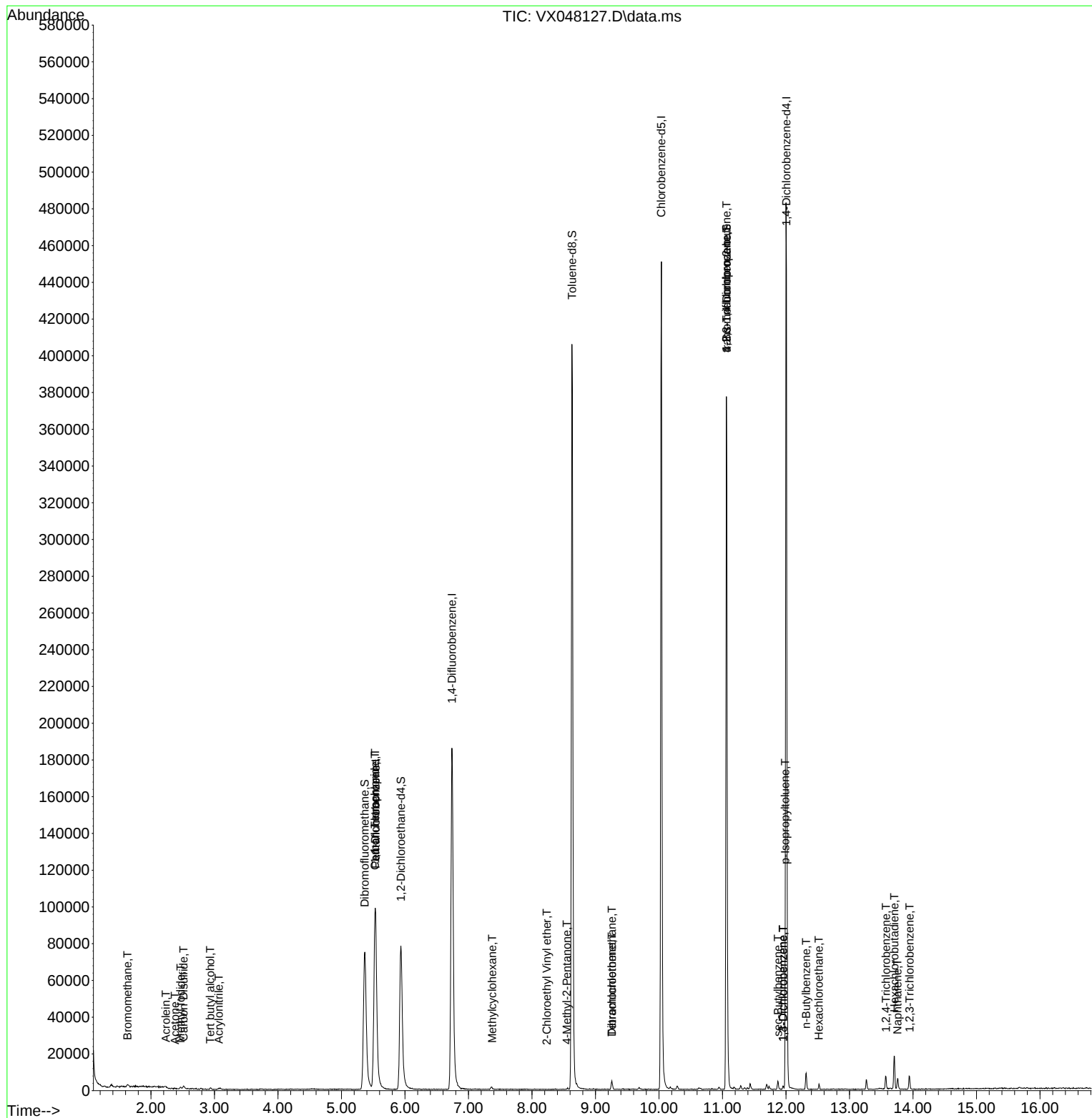
Internal Standards						
1) Pentafluorobenzene	5.538	168	99978	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	200714	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	207212	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	99485	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	86898	54.605	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.200%			
35) Dibromofluoromethane	5.367	113	74559	55.389	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.780%			
50) Toluene-d8	8.629	98	250869	53.860	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 107.720%			
62) 4-Bromofluorobenzene	11.061	95	104591	59.168	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 118.340%			
Target Compounds					Qvalue	
5) Bromomethane	1.630	94	679	0.804	ug/l	82
10) Methyl Iodide	2.465	142	1647	0.913	ug/l #	93
11) Tert butyl alcohol	2.934	59	285	1.608	ug/l #	72
13) Acrolein	2.233	56	155	0.949	ug/l	93
15) Acrylonitrile	3.069	53	385	0.586	ug/l #	80
16) Acetone	2.380	43	592	0.856	ug/l #	82
17) Carbon Disulfide	2.514	76	1900	0.584	ug/l	98
36) 1,1-Dichloropropene	5.532	75	8534	4.339	ug/l #	43
38) Carbon Tetrachloride	5.525	117	11024	5.158	ug/l #	19
39) Methylcyclohexane	7.373	83	682	0.305	ug/l #	47
51) 4-Methyl-2-Pentanone	8.549	43	588	0.307	ug/l #	63
58) 2-Chloroethyl Vinyl ether	8.232	63	21	7.912	ug/l #	47
60) Dibromochloromethane	9.257	129	841	0.514	ug/l #	11
64) Tetrachloroethene	9.257	164	868	0.643	ug/l #	83
76) 1,2,3-Trichloropropane	11.061	75	56057	27.830	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	56057	70.971	ug/l #	8
85) sec-Butylbenzene	11.872	105	2587	0.342	ug/l	96
86) p-Isopropyltoluene	11.988	119	2241	0.350	ug/l #	84
87) 1,3-Dichlorobenzene	11.951	146	776	0.224	ug/l	95
88) 1,4-Dichlorobenzene	11.951	146	776	0.219	ug/l	94
89) n-Butylbenzene	12.317	91	3238	0.547	ug/l	91
90) Hexachloroethane	12.518	117	425	0.378	ug/l	84
93) 1,2,4-Trichlorobenzene	13.573	180	1889	0.882	ug/l	93
94) Hexachlorobutadiene	13.707	225	2499	3.434	ug/l	100
95) Naphthalene	13.756	128	4118	0.631	ug/l	99
96) 1,2,3-Trichlorobenzene	13.945	180	1805	0.906	ug/l	96

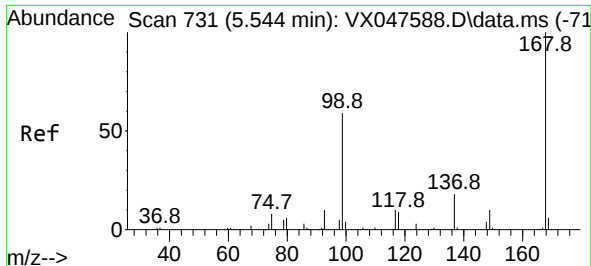
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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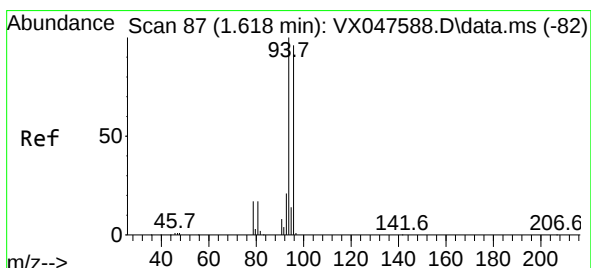
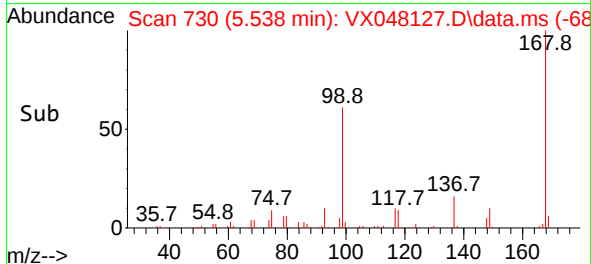
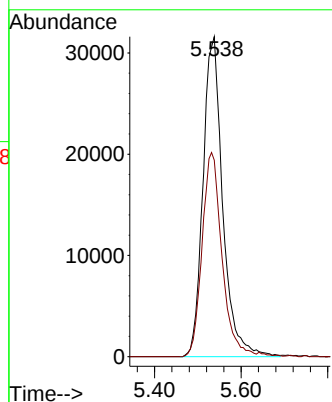
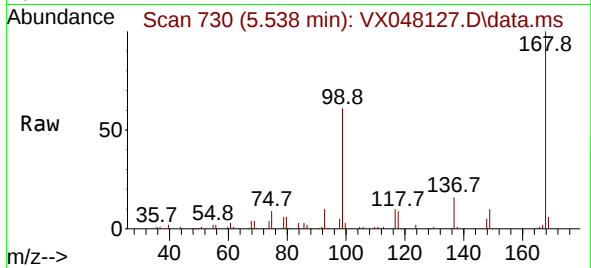




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

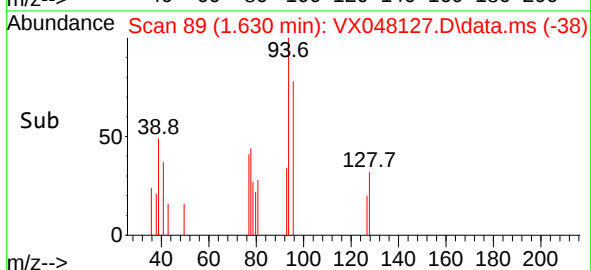
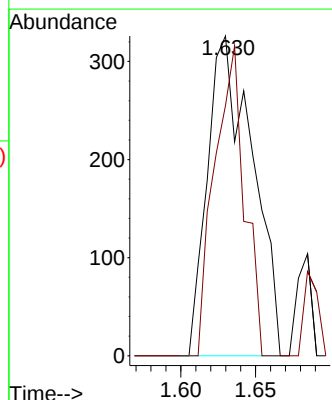
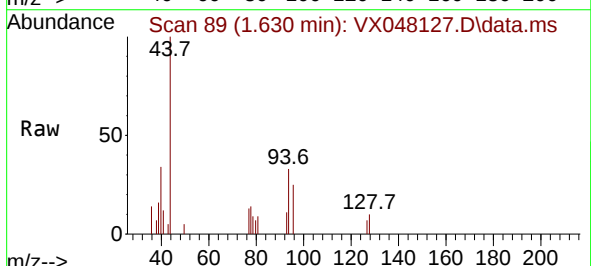
Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

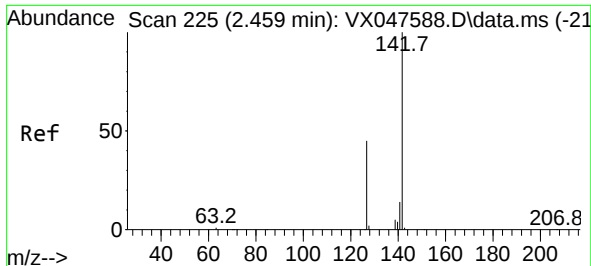
Tgt Ion:168 Resp: 99978
Ion Ratio Lower Upper
168 100
99 61.4 48.8 73.2



#5
Bromomethane
Concen: 0.804 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

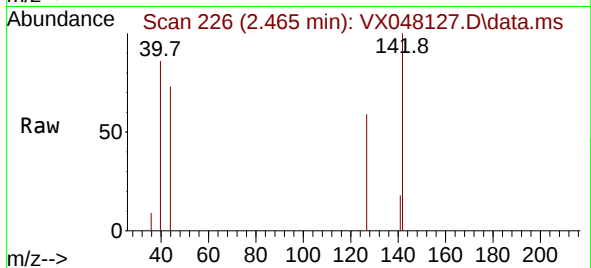
Tgt Ion: 94 Resp: 679
Ion Ratio Lower Upper
94 100
96 78.2 76.6 115.0



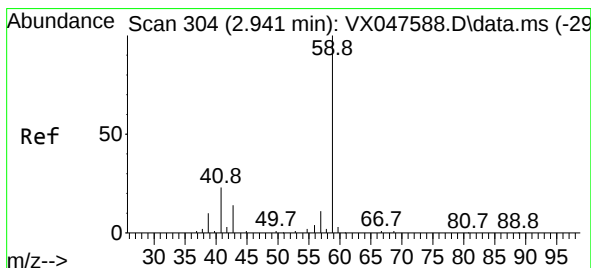
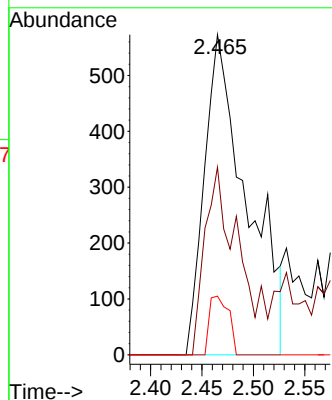
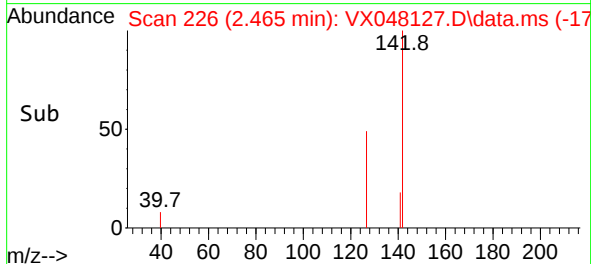


#10
Methyl Iodide
Concen: 0.913 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

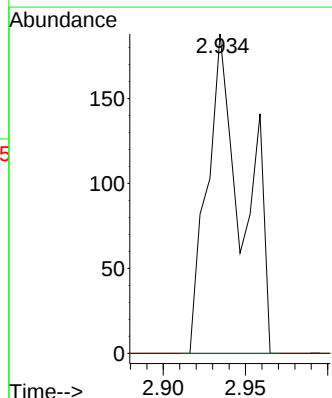
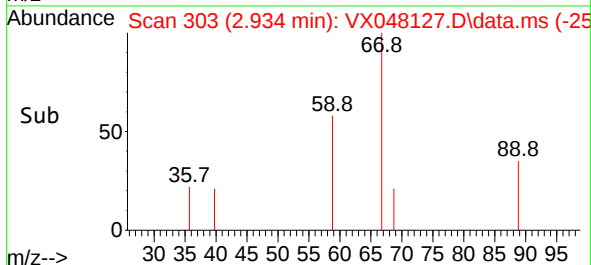
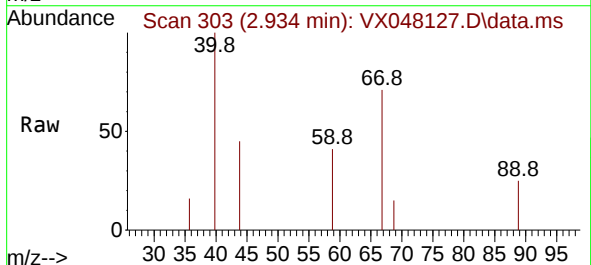


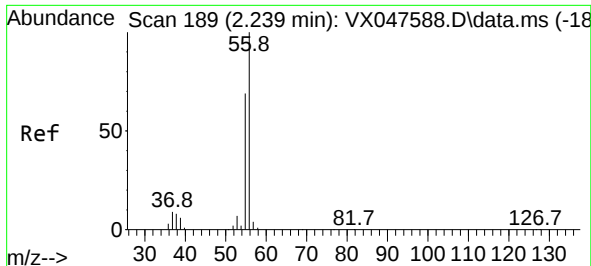
Tgt Ion:142 Resp: 1647
Ion Ratio Lower Upper
142 100
127 43.5 37.2 55.8
141 8.3 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.608 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 59 Resp: 285
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

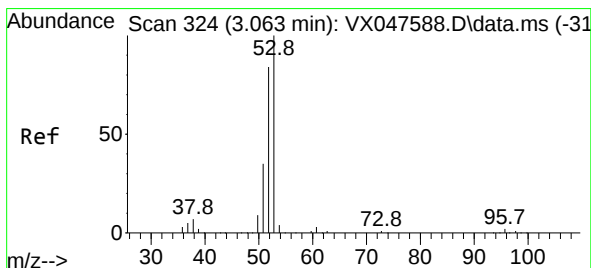
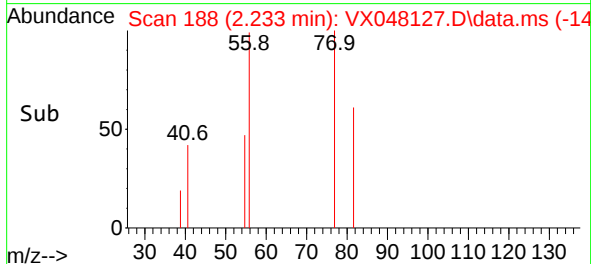
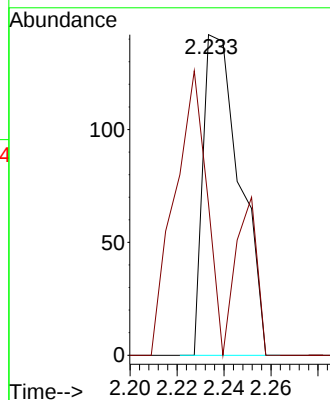
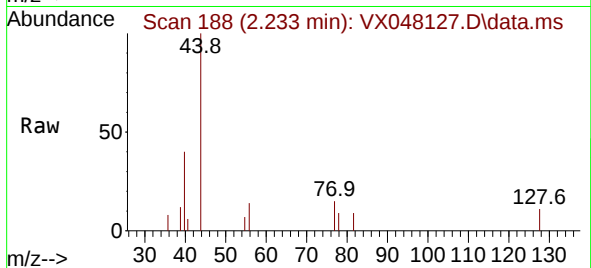




#13
Acrolein
Concen: 0.949 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

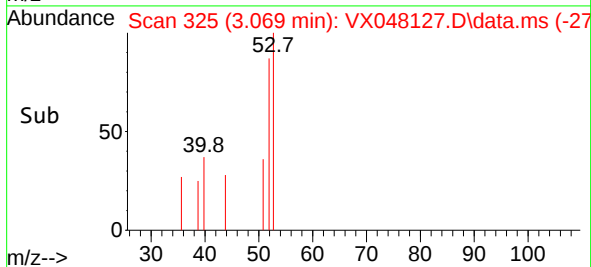
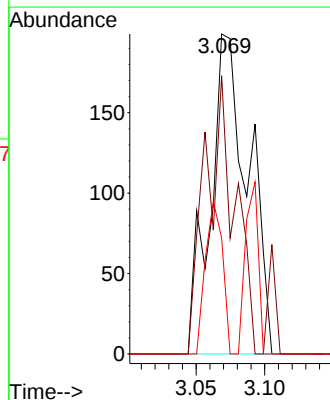
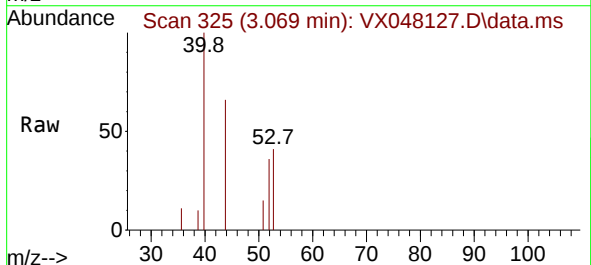
Instrument :
MSVOA_X
ClientSampleId :
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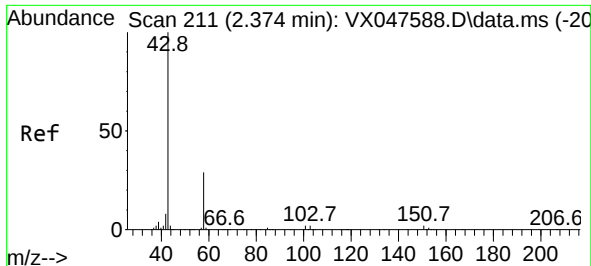
Tgt Ion: 56 Resp: 155
Ion Ratio Lower Upper
56 100
55 77.4 57.2 85.8



#15
Acrylonitrile
Concen: 0.586 ug/l
RT: 3.069 min Scan# 325
Delta R.T. 0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 53 Resp: 385
Ion Ratio Lower Upper
53 100
52 67.3 66.4 99.6
51 21.3 29.5 44.3#

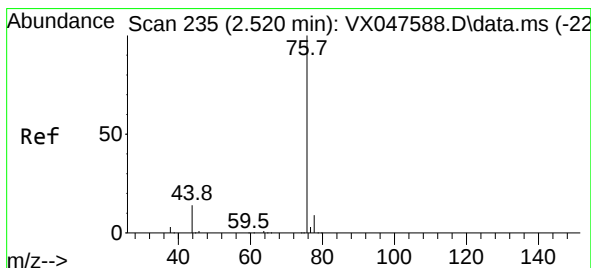
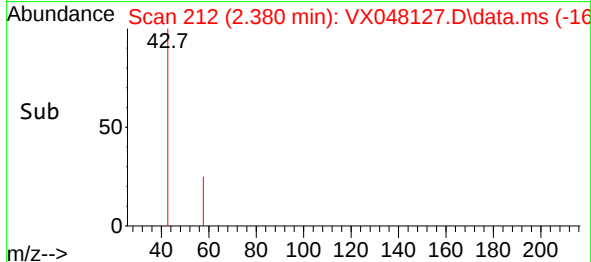
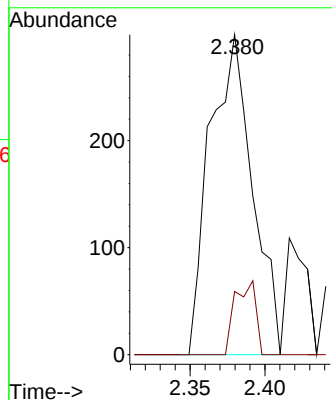
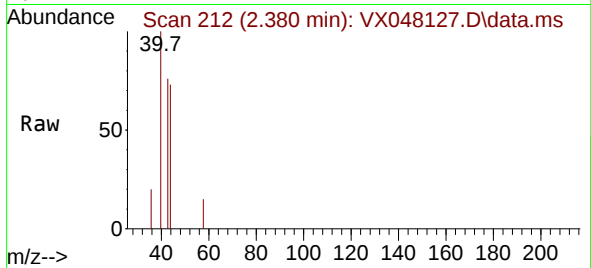




#16
Acetone
Concen: 0.856 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

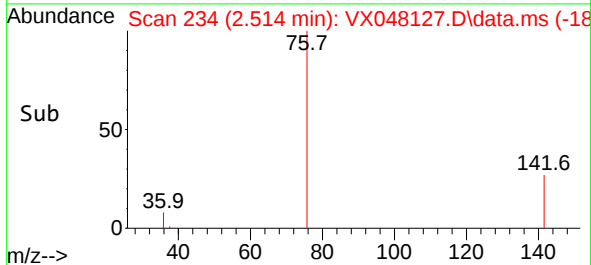
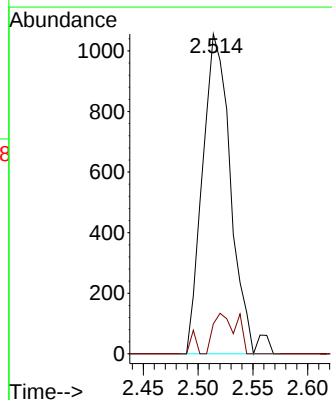
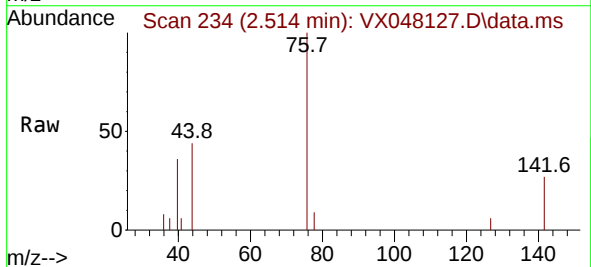
Instrument :
MSVOA_X
ClientSampleId :
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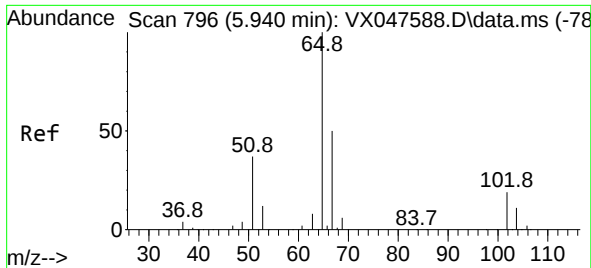
Tgt Ion: 43 Resp: 592
Ion Ratio Lower Upper
43 100
58 19.7 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.584 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 76 Resp: 1900
Ion Ratio Lower Upper
76 100
78 9.4 6.8 10.2

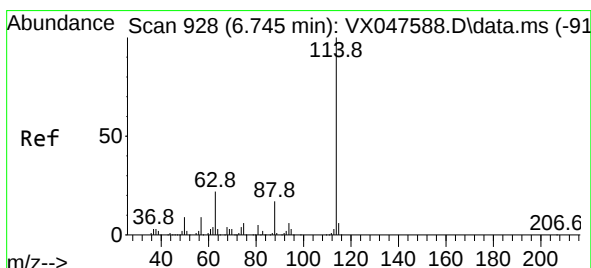
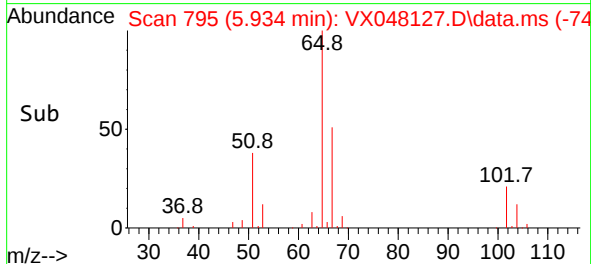
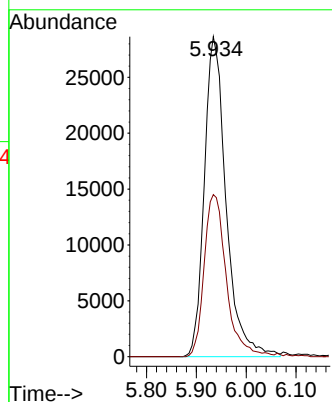
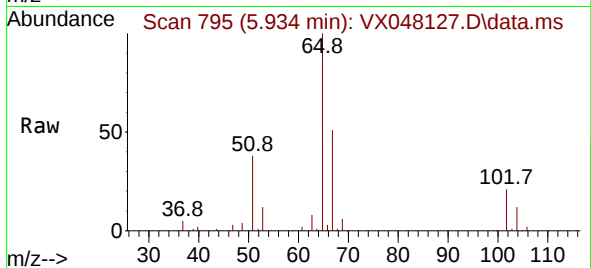




#33
 1,2-Dichloroethane-d4
 Concen: 54.605 ug/l
 RT: 5.934 min Scan# 796
 Delta R.T. -0.006 min
 Lab File: VX048127.D
 Acq: 13 Oct 2025 09:26

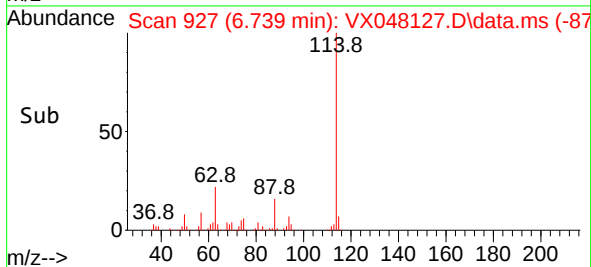
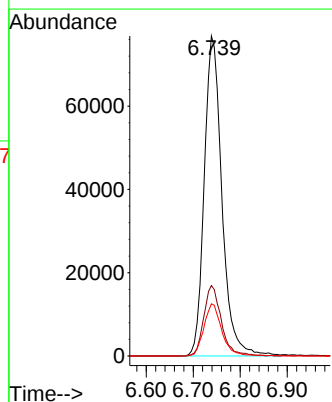
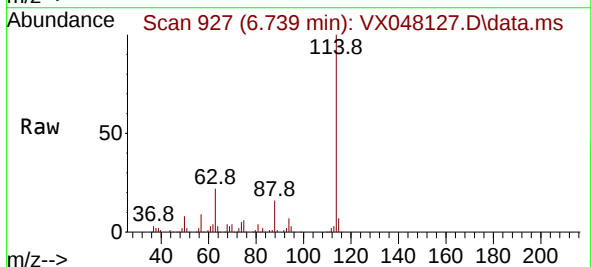
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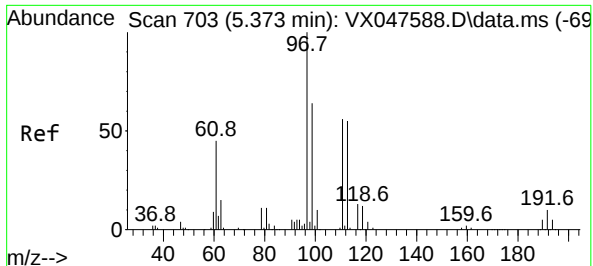
Tgt Ion: 65 Resp: 86898
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.739 min Scan# 927
 Delta R.T. -0.006 min
 Lab File: VX048127.D
 Acq: 13 Oct 2025 09:26

Tgt Ion: 114 Resp: 200714
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.0
 88 16.3 0.0 34.2

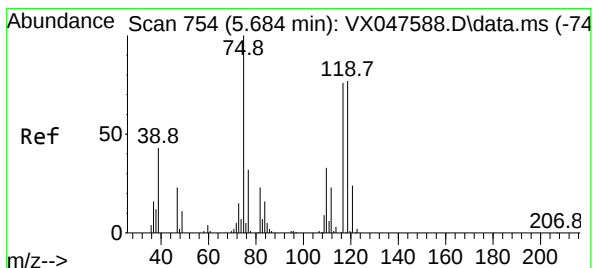
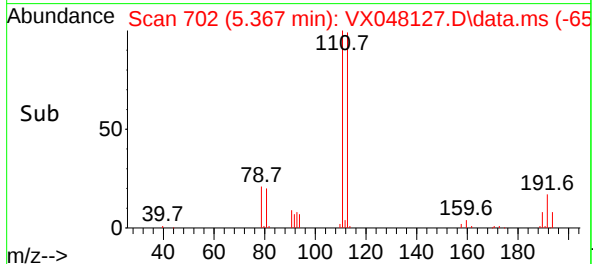
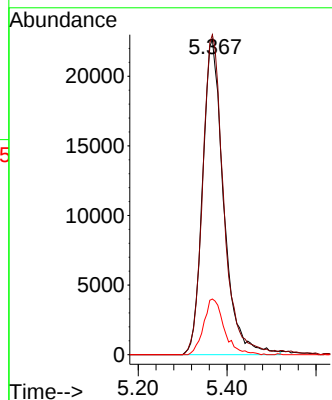
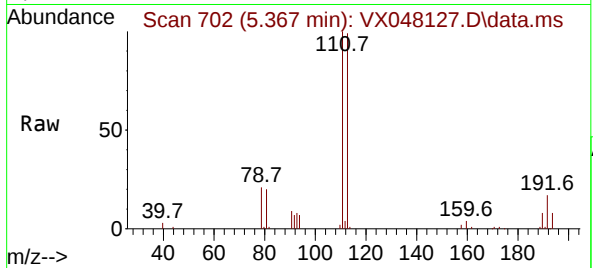




#35
Dibromofluoromethane
Concen: 55.389 ug/l
RT: 5.367 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

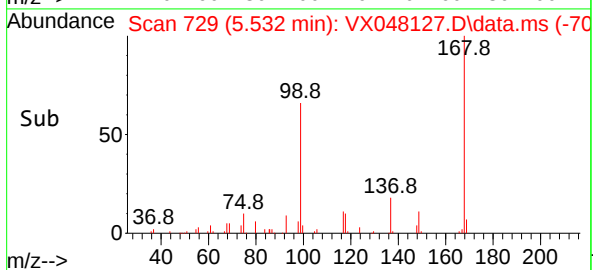
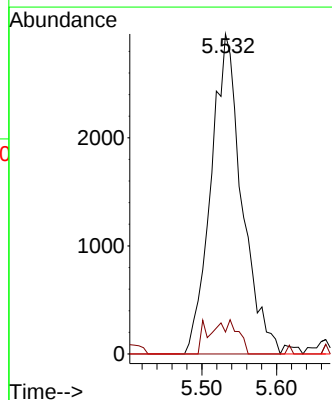
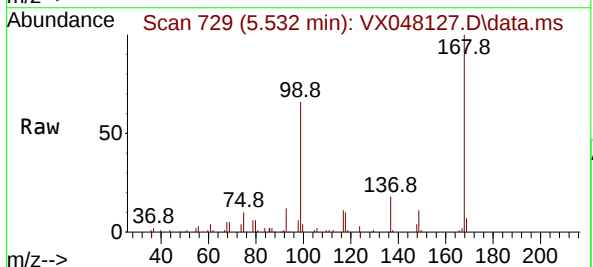
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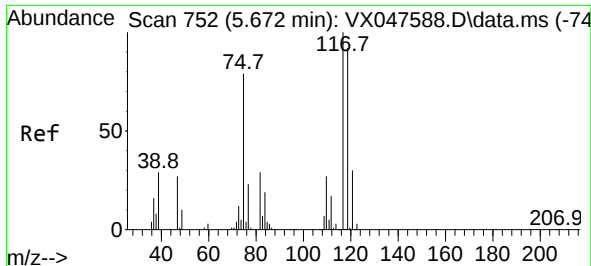
Tgt Ion:113 Resp: 74559
Ion Ratio Lower Upper
113 100
111 100.7 80.9 121.3
192 17.3 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.339 ug/l
RT: 5.532 min Scan# 729
Delta R.T. -0.152 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

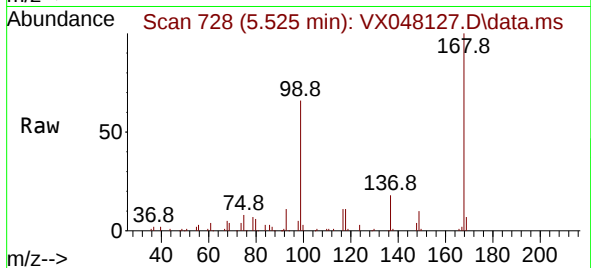
Tgt Ion: 75 Resp: 8534
Ion Ratio Lower Upper
75 100
110 0.0 16.7 50.1#
77 0.0 24.3 36.5#



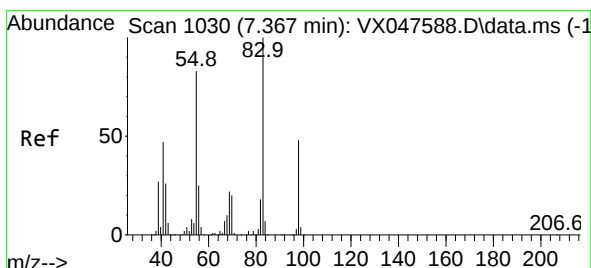
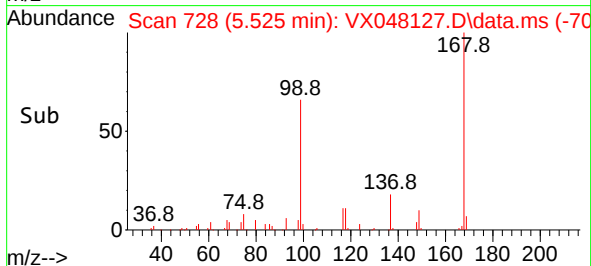
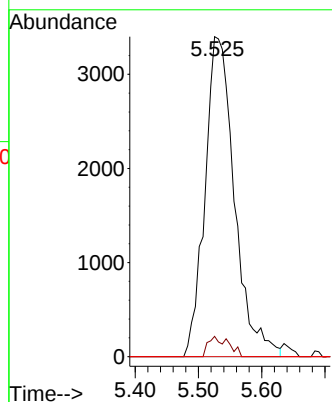


#38
Carbon Tetrachloride
Concen: 5.158 ug/l
RT: 5.525 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

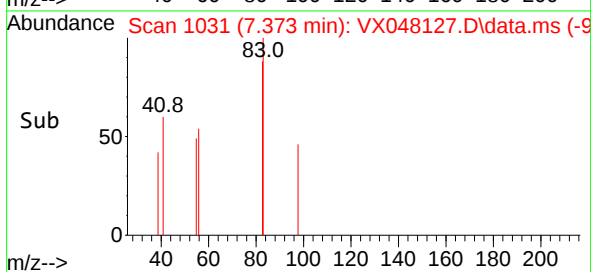
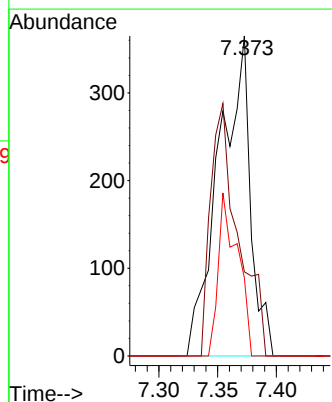
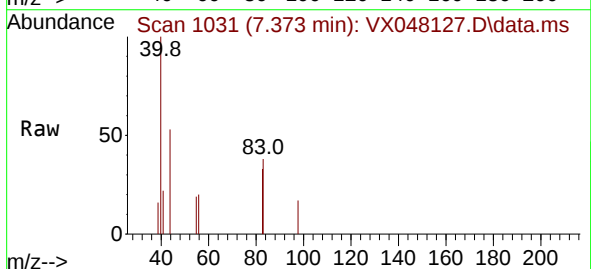


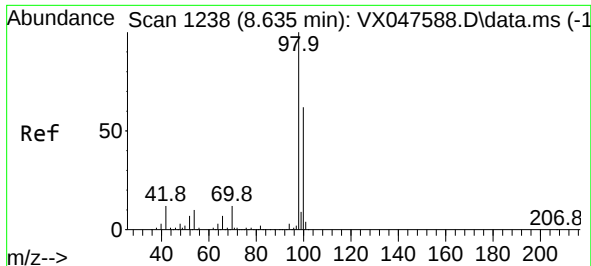
Tgt Ion:117 Resp: 11024
Ion Ratio Lower Upper
117 100
119 6.4 73.4 110.2#
121 0.0 23.8 35.6#



#39
Methylcyclohexane
Concen: 0.305 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 83 Resp: 682
Ion Ratio Lower Upper
83 100
55 26.3 66.4 99.6#
98 24.4 38.1 57.1#

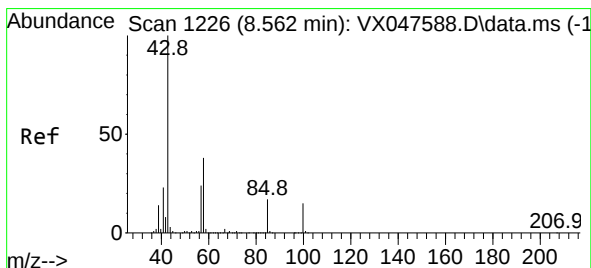
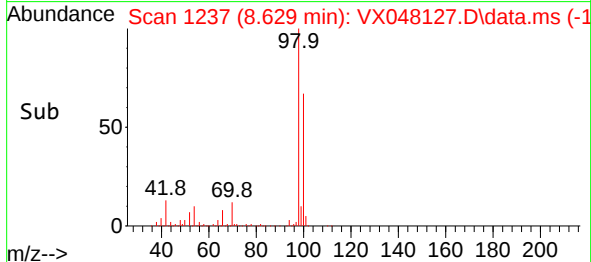
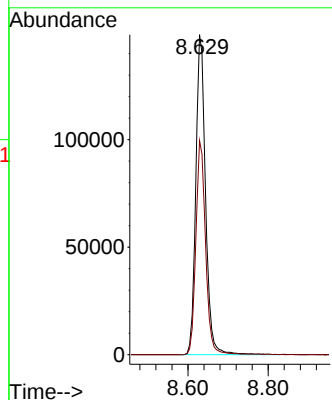
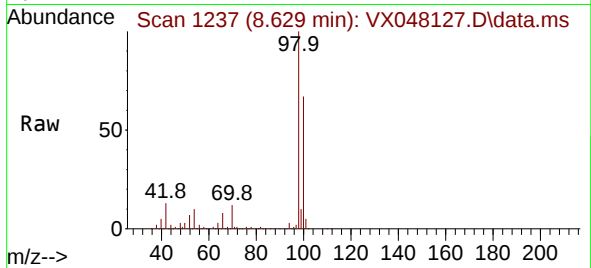




#50
Toluene-d8
Concen: 53.860 ug/l
RT: 8.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

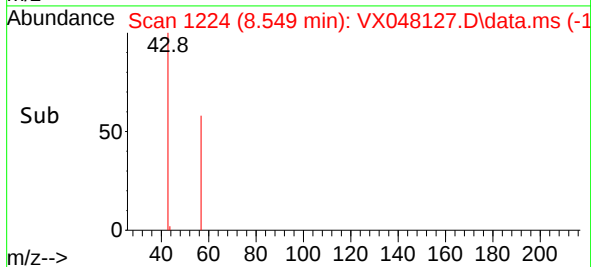
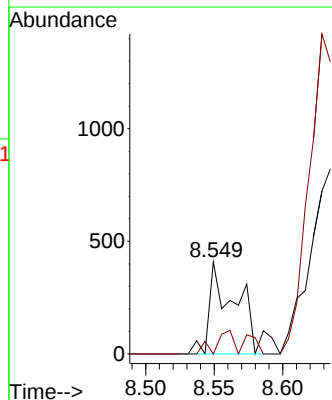
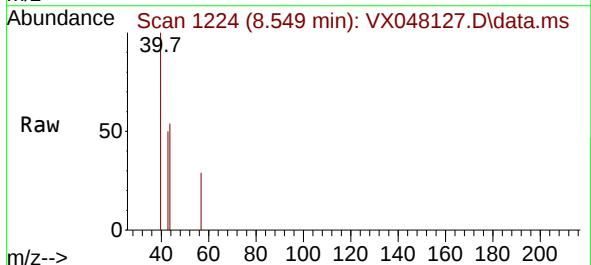
Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

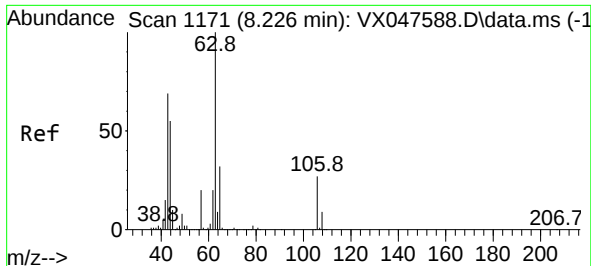
Tgt Ion: 98 Resp: 250869
Ion Ratio Lower Upper
98 100
100 66.9 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.307 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.012 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 43 Resp: 588
Ion Ratio Lower Upper
43 100
58 15.5 30.3 45.5#

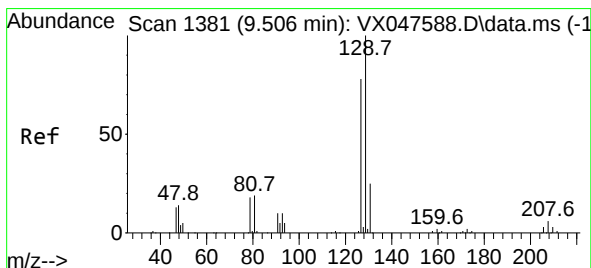
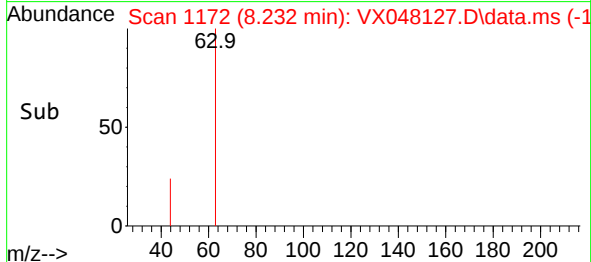
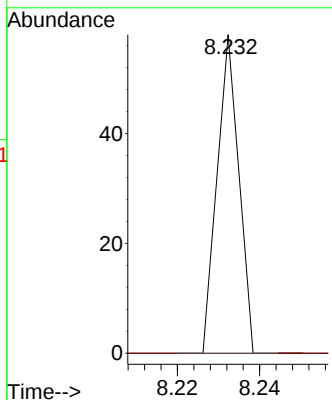
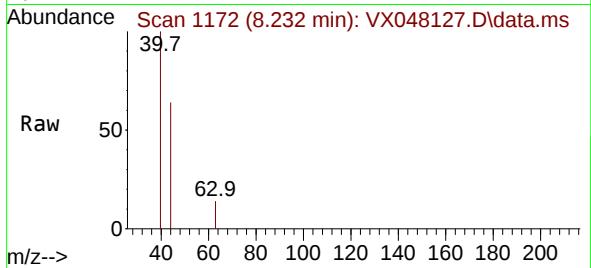




#58
2-Chloroethyl Vinyl ether
Concen: 7.912 ug/l
RT: 8.232 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

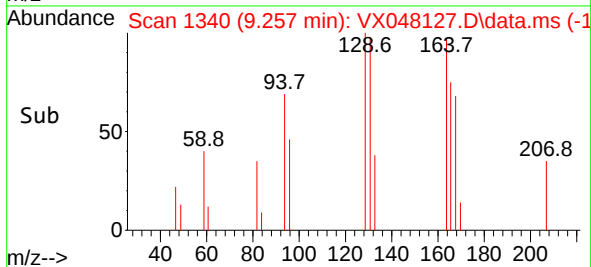
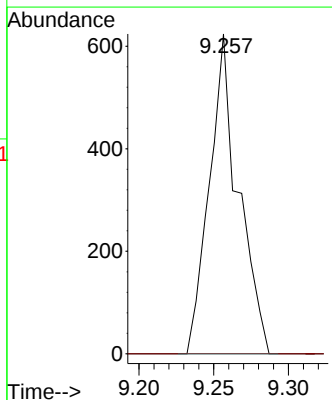
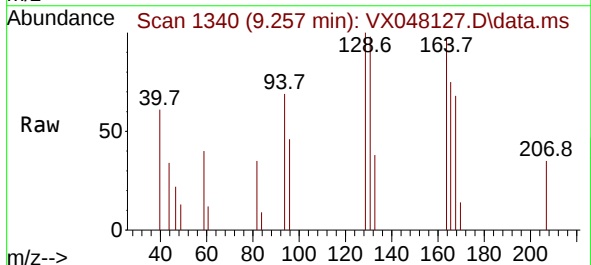
Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

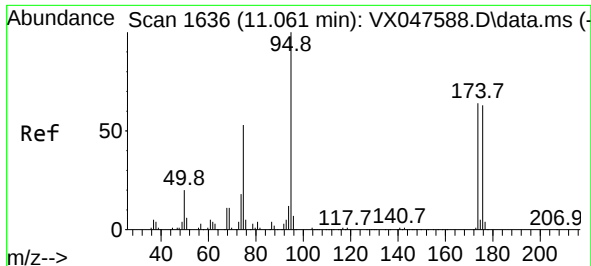
Tgt Ion: 63 Resp: 21
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



#60
Dibromochloromethane
Concen: 0.514 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 129 Resp: 841
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

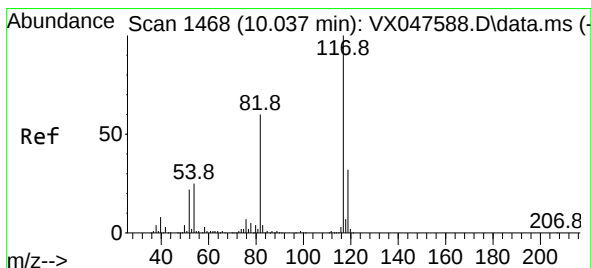
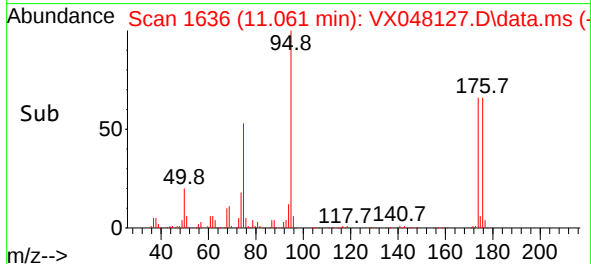
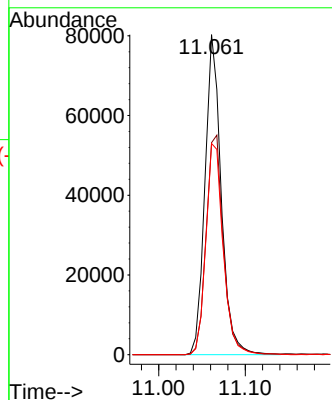
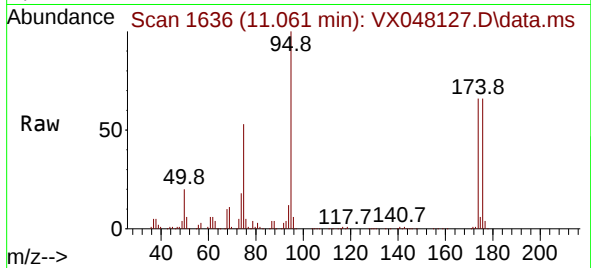




#62
4-Bromofluorobenzene
Concen: 59.168 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

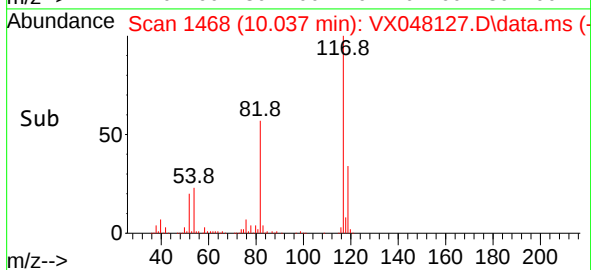
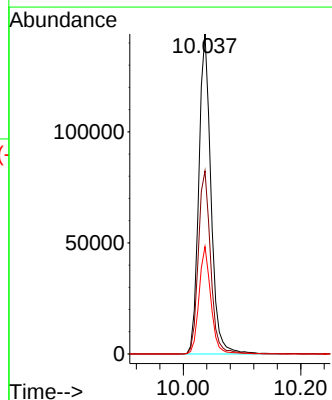
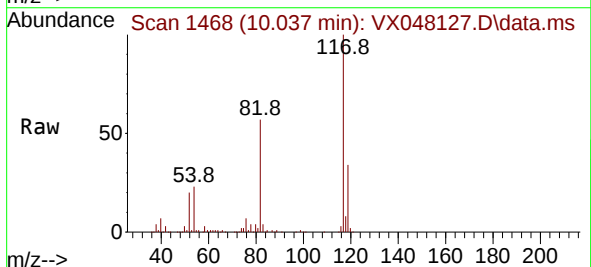
Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

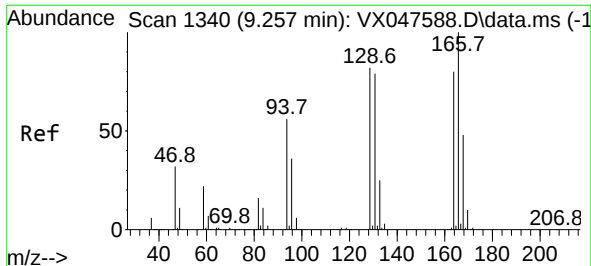
Tgt Ion: 95 Resp: 104591
Ion Ratio Lower Upper
95 100
174 73.0 0.0 141.6
176 70.4 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 117 Resp: 207212
Ion Ratio Lower Upper
117 100
82 57.2 47.8 71.6
119 33.6 25.2 37.8

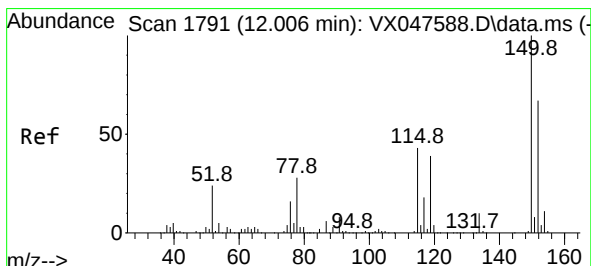
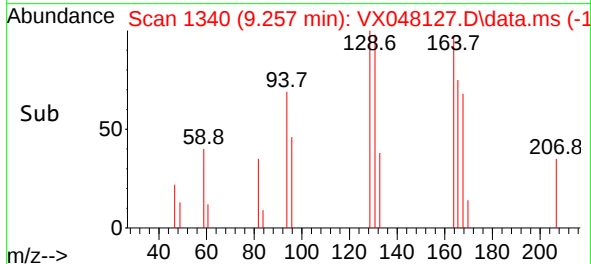
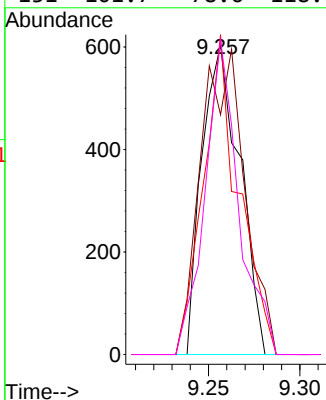
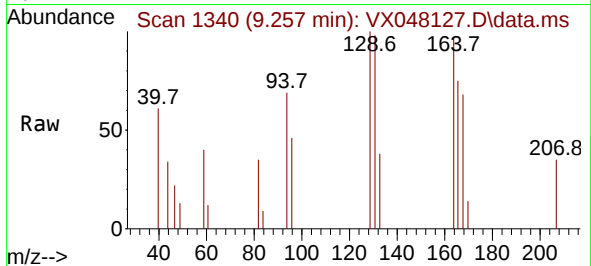




#64
Tetrachloroethene
Concen: 0.643 ug/l
RT: 9.257 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

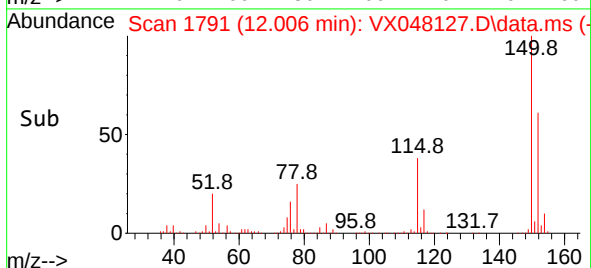
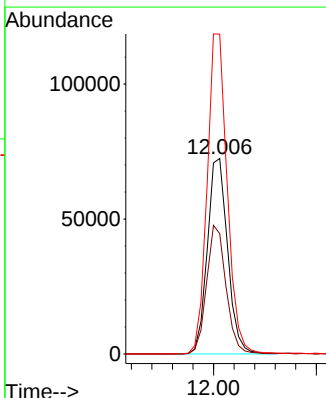
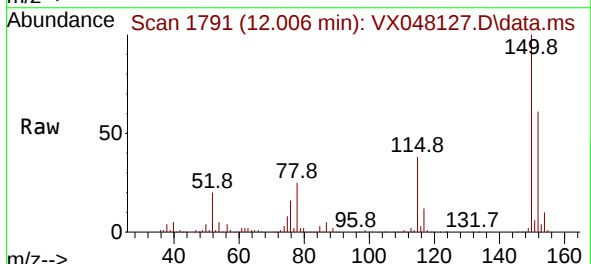
Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

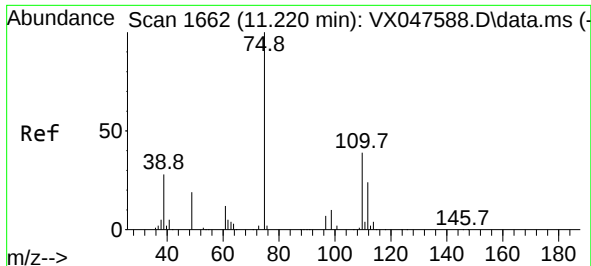
Tgt Ion:164 Resp: 868
Ion Ratio Lower Upper
164 100
166 77.5 100.2 150.2#
129 103.3 81.8 122.6
131 101.7 78.6 118.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion:152 Resp: 99485
Ion Ratio Lower Upper
152 100
115 63.1 44.9 134.5
150 162.4 0.0 352.0

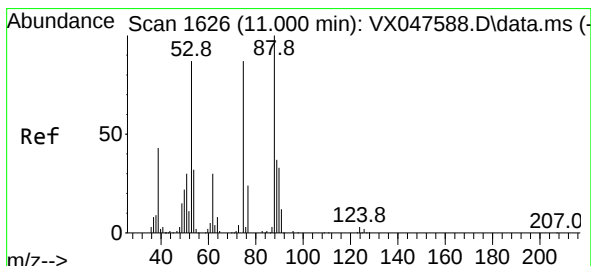
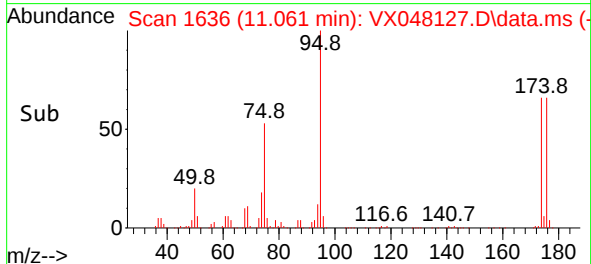
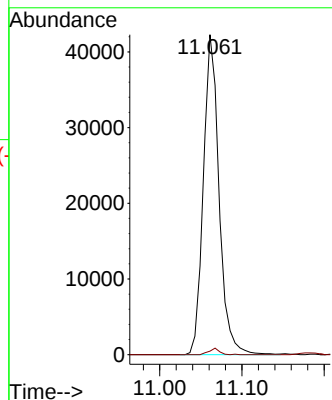
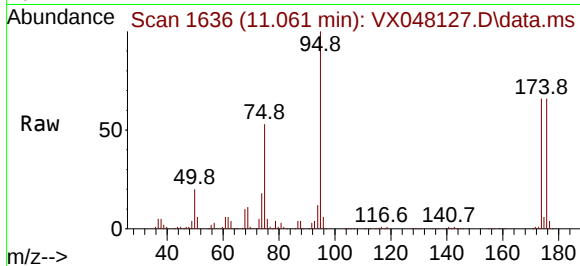




#76
1,2,3-Trichloropropane
Concen: 27.830 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

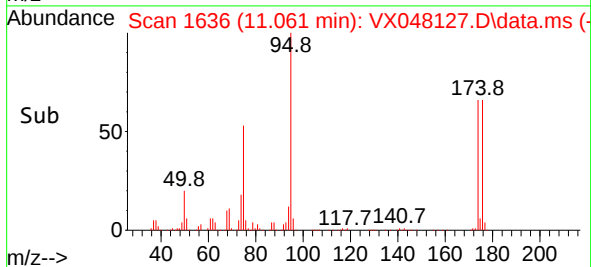
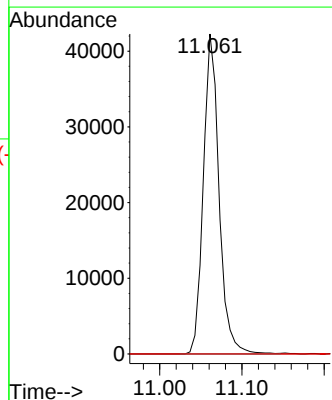
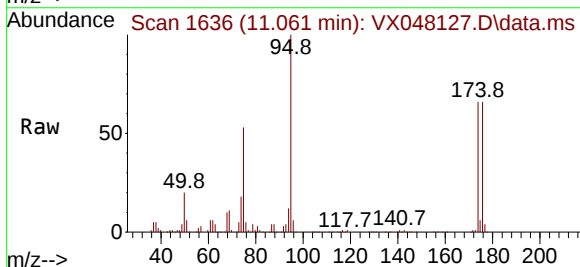
Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

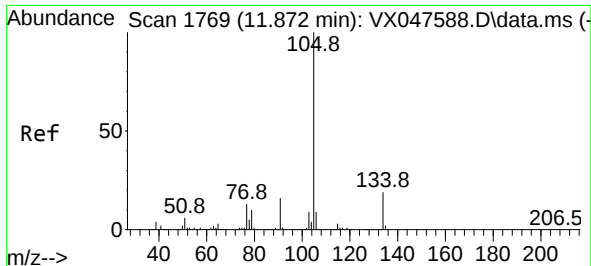
Tgt Ion: 75 Resp: 56057
Ion Ratio Lower Upper
75 100
77 1.4 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.971 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion: 75 Resp: 56057
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#

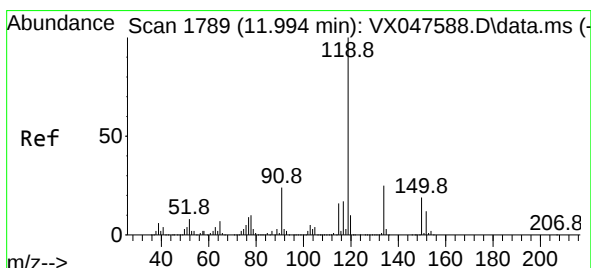
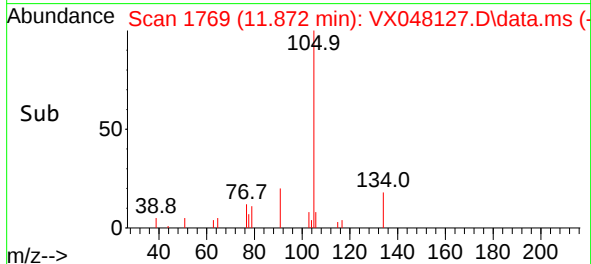
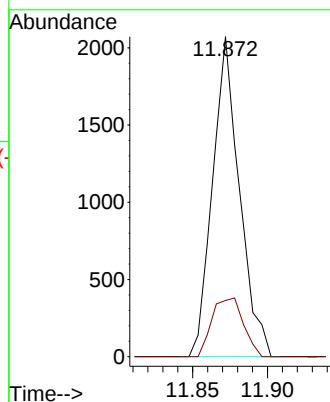
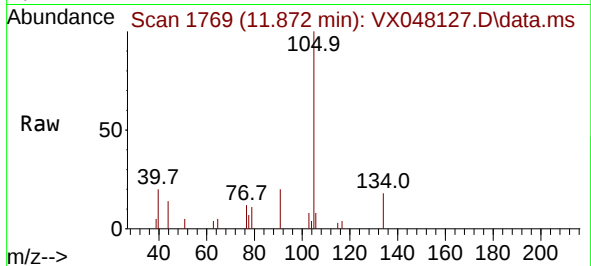




#85
 sec-Butylbenzene
 Concen: 0.342 ug/l
 RT: 11.872 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX048127.D
 Acq: 13 Oct 2025 09:26

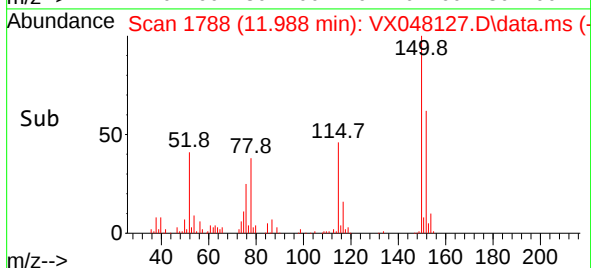
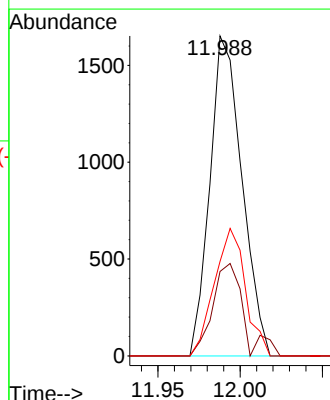
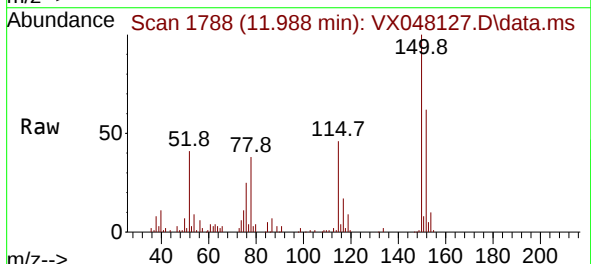
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1013MBL01

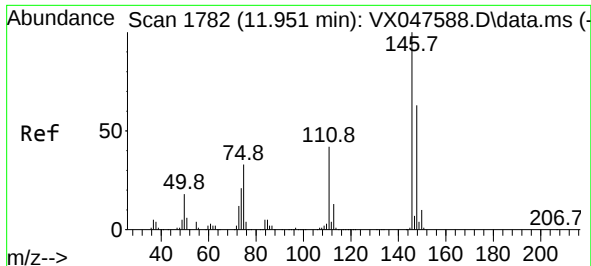
Tgt Ion:105 Resp: 2587
 Ion Ratio Lower Upper
 105 100
 134 21.4 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 0.350 ug/l
 RT: 11.988 min Scan# 1788
 Delta R.T. -0.006 min
 Lab File: VX048127.D
 Acq: 13 Oct 2025 09:26

Tgt Ion:119 Resp: 2241
 Ion Ratio Lower Upper
 119 100
 134 27.8 12.6 37.8
 91 38.6 12.6 37.6#

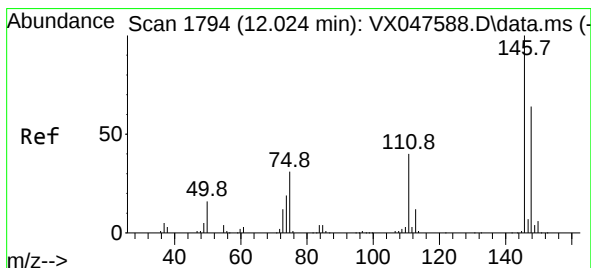
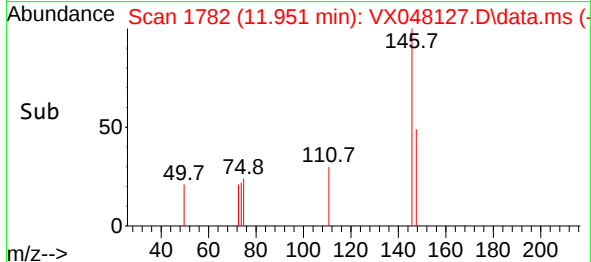
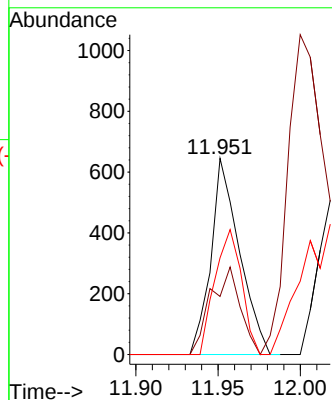
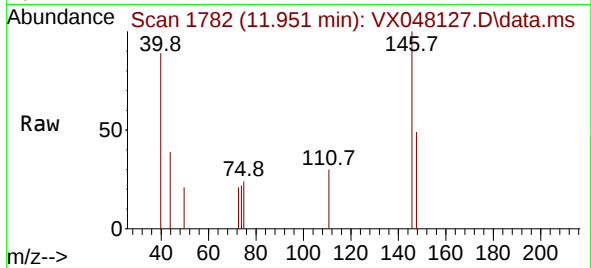




#87
1,3-Dichlorobenzene
Concen: 0.224 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. 0.000 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

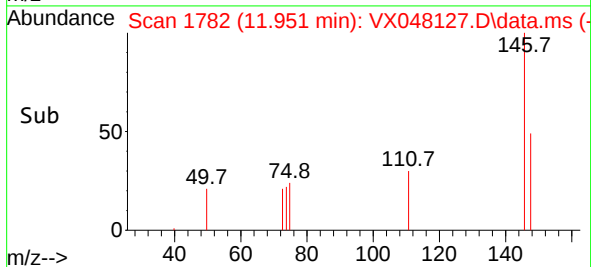
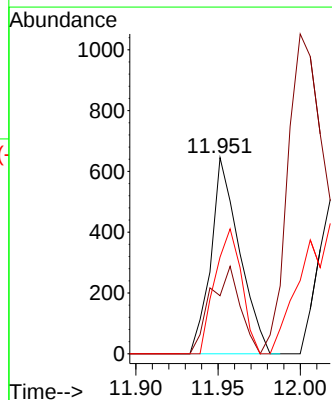
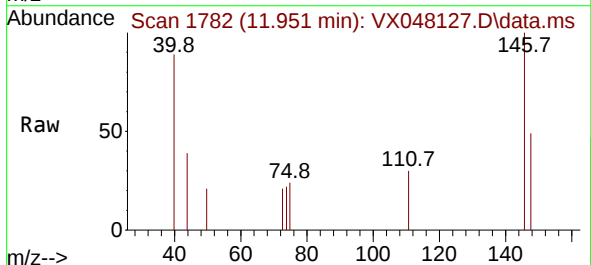
Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

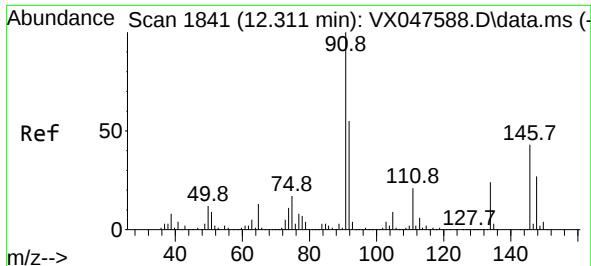
Tgt Ion:	146	Resp:	776
Ion	Ratio	Lower	Upper
146	100		
111	46.1	21.5	64.5
148	59.9	32.0	96.0



#88
1,4-Dichlorobenzene
Concen: 0.219 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.073 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion:	146	Resp:	776
Ion	Ratio	Lower	Upper
146	100		
111	46.1	20.8	62.4
148	59.9	31.7	95.1





#89

n-Butylbenzene

Concen: 0.547 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048127.D

Acq: 13 Oct 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VX1013MBL01

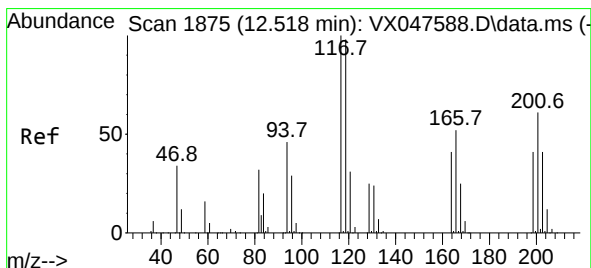
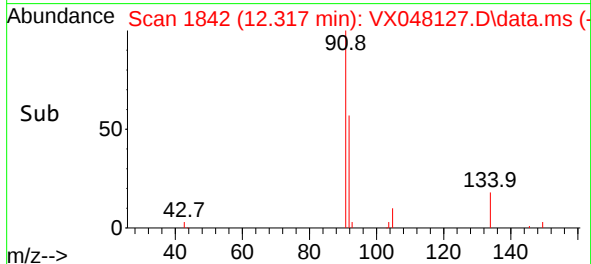
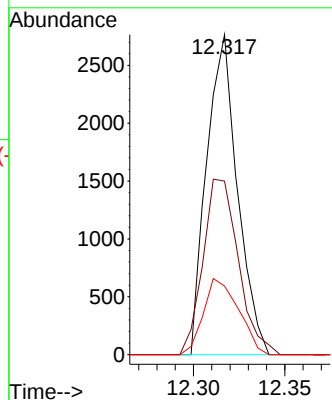
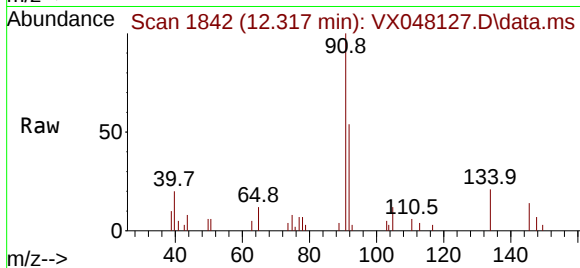
Tgt Ion: 91 Resp: 3238

Ion Ratio Lower Upper

91 100

92 63.2 27.6 82.7

134 27.1 12.6 37.8



#90

Hexachloroethane

Concen: 0.378 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VX048127.D

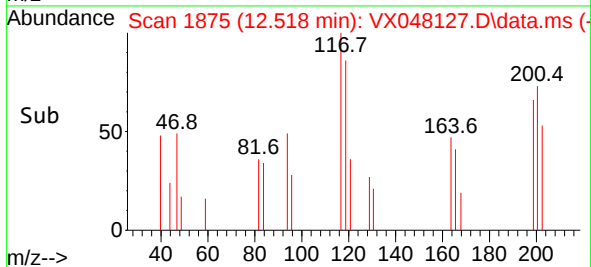
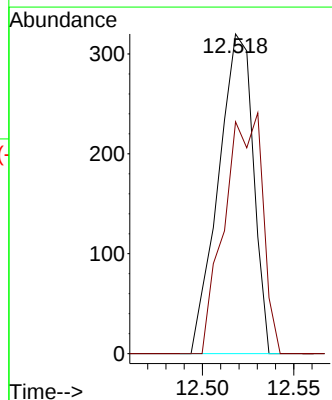
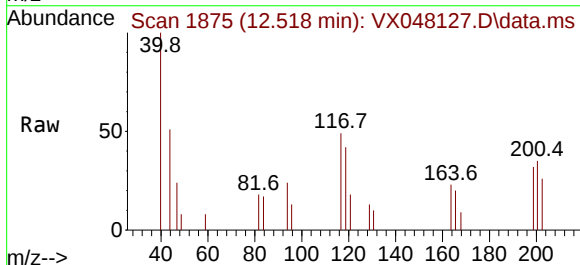
Acq: 13 Oct 2025 09:26

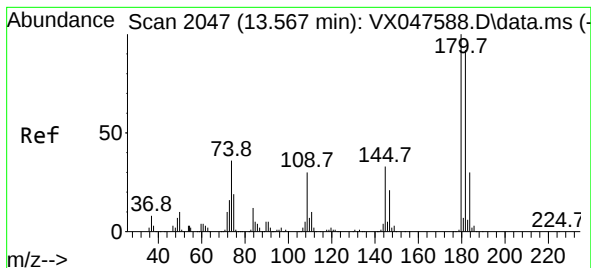
Tgt Ion: 117 Resp: 425

Ion Ratio Lower Upper

117 100

201 81.6 34.2 102.5





#93

1,2,4-Trichlorobenzene

Concen: 0.882 ug/l

RT: 13.573 min Scan# 2048

Delta R.T. 0.006 min

Lab File: VX048127.D

Acq: 13 Oct 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VX1013MBL01

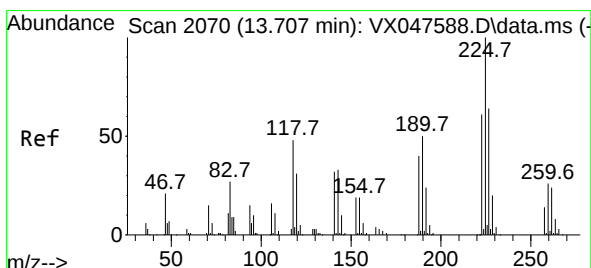
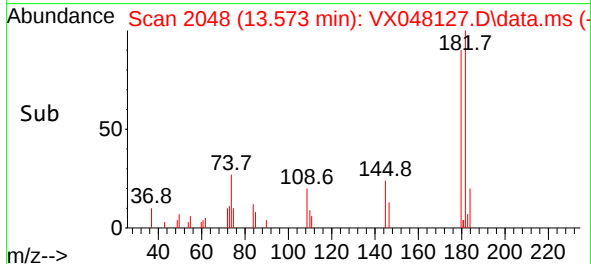
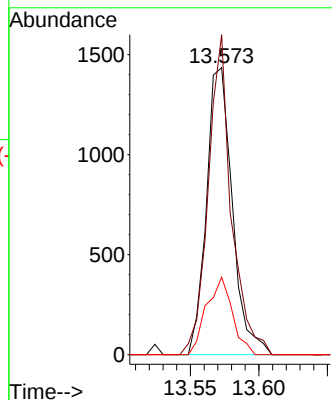
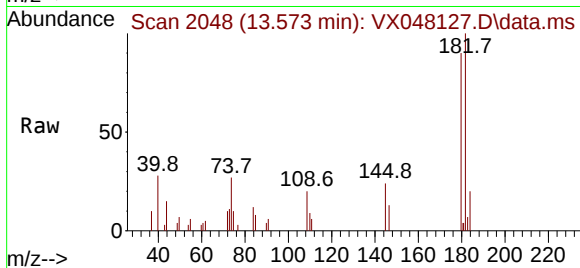
Tgt Ion:180 Resp: 1889

Ion Ratio Lower Upper

180 100

182 99.4 46.6 139.8

145 26.8 16.4 49.1



#94

Hexachlorobutadiene

Concen: 3.434 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX048127.D

Acq: 13 Oct 2025 09:26

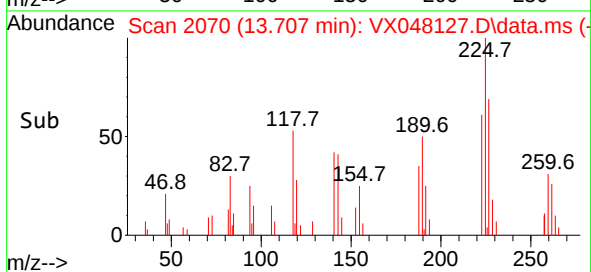
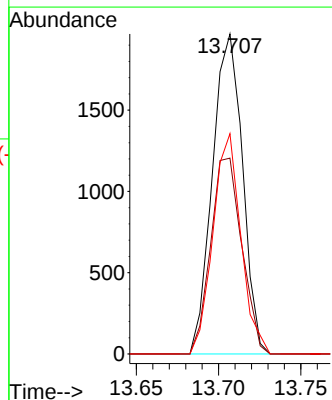
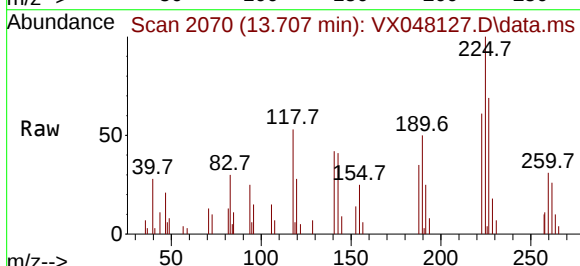
Tgt Ion:225 Resp: 2499

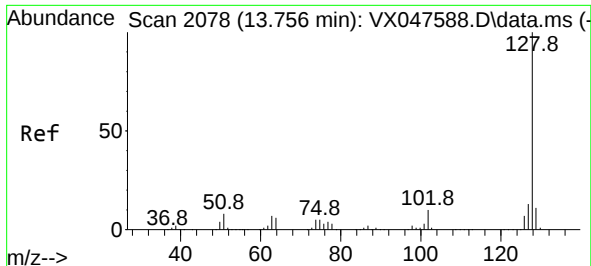
Ion Ratio Lower Upper

225 100

223 63.6 31.7 95.1

227 63.9 32.0 96.0

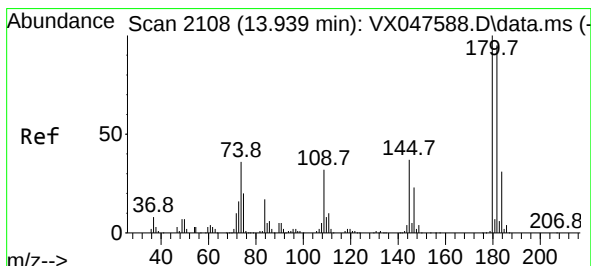
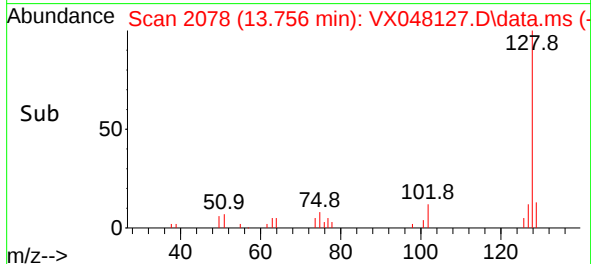
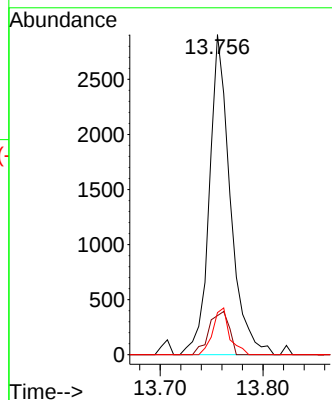
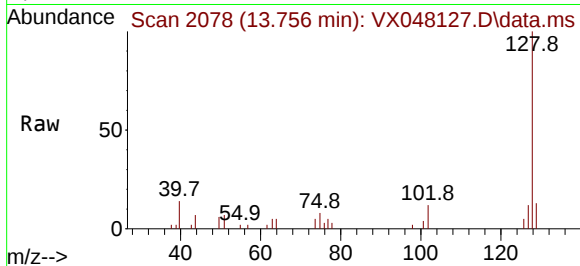




#95
Naphthalene
Concen: 0.631 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. 0.000 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VX1013MBL01

Tgt Ion:	128	Resp:	4118
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.6	8.8	13.2



#96
1,2,3-Trichlorobenzene
Concen: 0.906 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048127.D
Acq: 13 Oct 2025 09:26

Tgt Ion:	180	Resp:	1805
Ion	Ratio	Lower	Upper
180	100		
182	99.1	47.6	142.8
145	39.0	17.9	53.7

