

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102425\
 Data File : VX048350.D
 Acq On : 24 Oct 2025 14:47
 Operator : JC/MD
 Sample : Q3454-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 101625

Quant Time: Oct 24 23:04:30 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)

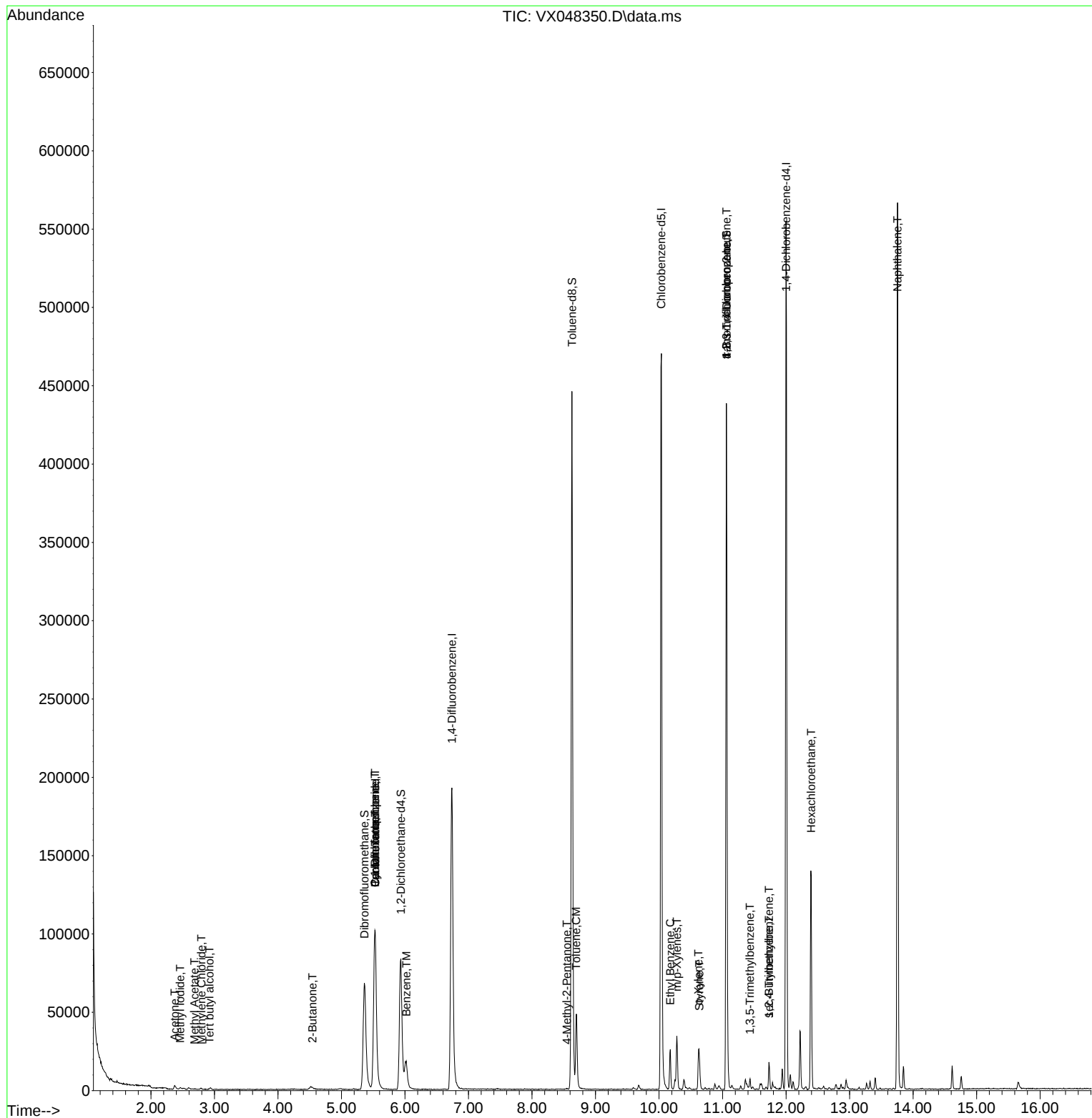
Internal Standards						
1) Pentafluorobenzene	5.531	168	101854	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.738	114	207590	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	220848	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.999	152	109851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	92986	65.113	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 130.220%#	
35) Dibromofluoromethane	5.360	113	65598	46.287	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	= 92.580%	
50) Toluene-d8	8.628	98	262270	52.798	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 105.600%	
62) 4-Bromofluorobenzene	11.061	95	114552	60.617	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 121.240%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.459	142	1228	0.889	ug/l	93
11) Tert butyl alcohol	2.922	59	123	0.867	ug/l #	72
16) Acetone	2.373	43	3463	7.069	ug/l #	88
18) Methyl Acetate	2.684	43	439	0.429	ug/l #	54
20) Methylene Chloride	2.794	84	330	0.276	ug/l #	56
25) 2-Butanone	4.544	43	637	1.027	ug/l #	50
31) Cyclohexane	5.531	56	2634	1.486	ug/l #	31
36) 1,1-Dichloropropene	5.525	75	8805	4.371	ug/l #	49
38) Carbon Tetrachloride	5.531	117	11332	4.560	ug/l #	15
40) Benzene	6.019	78	20092	3.436	ug/l	93
51) 4-Methyl-2-Pentanone	8.549	43	485	0.307	ug/l #	38
52) Toluene	8.695	92	18441	4.964	ug/l	98
67) Ethyl Benzene	10.177	91	14668	1.734	ug/l	93
68) m/p-Xylenes	10.280	106	8022	2.553	ug/l	99
69) o-Xylene	10.622	106	4912	1.619	ug/l	99
70) Styrene	10.634	104	5683	1.100	ug/l	95
76) 1,2,3-Trichloropropane	11.061	75	63189	35.471	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.433	105	2541	0.383	ug/l	87
81) trans-1,4-Dichloro-2-b...	11.061	75	63189	86.299	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.731	105	7630	1.151	ug/l	99
85) sec-Butylbenzene	11.731	105	7630	0.930	ug/l #	56
90) Hexachloroethane	12.396	117	5401	3.855	ug/l #	16
95) Naphthalene	13.755	128	320837	50.289	ug/l	100

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

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Quant Time: Oct 24 23:04:30 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

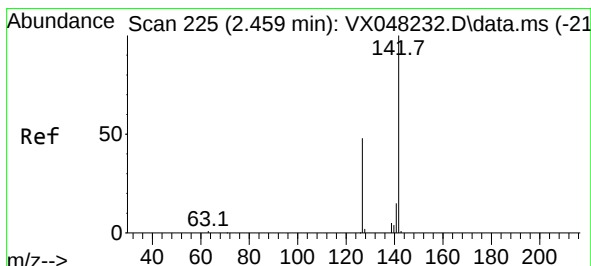
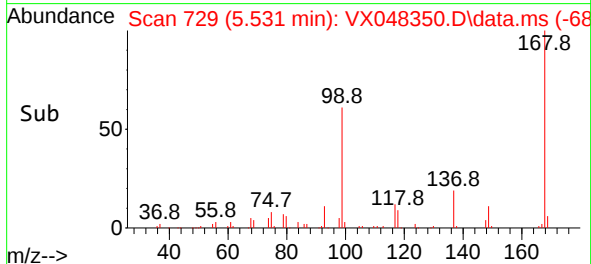
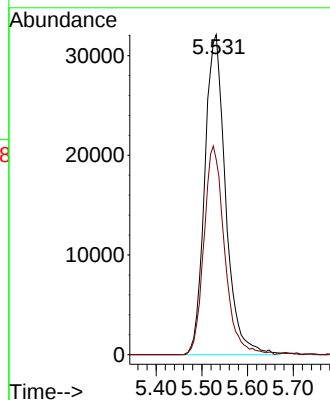
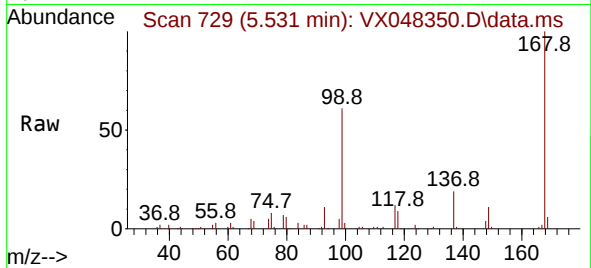




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

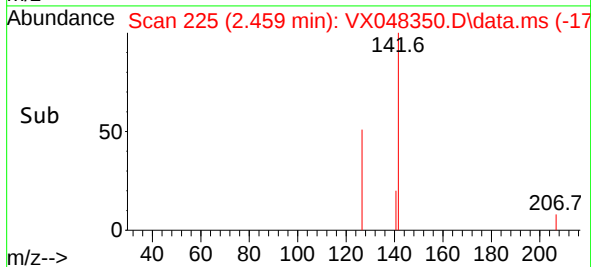
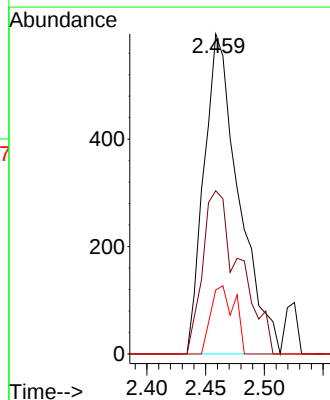
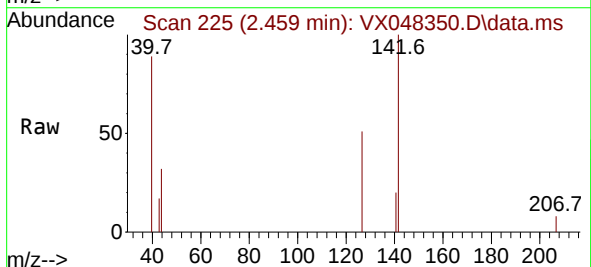
Instrument :
MSVOA_X
ClientSampleId :
101625

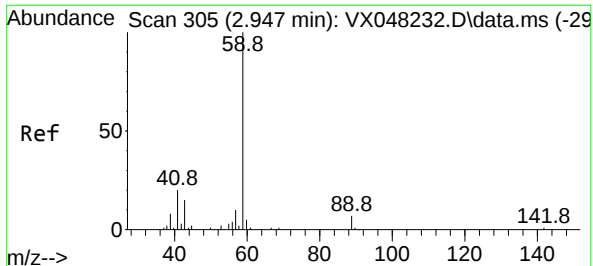
Tgt Ion:168 Resp: 101854
Ion Ratio Lower Upper
168 100
99 61.0 46.4 69.6



#10
Methyl Iodide
Concen: 0.889 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion:142 Resp: 1228
Ion Ratio Lower Upper
142 100
127 54.4 38.5 57.7
141 14.5 11.6 17.4





#11

Tert butyl alcohol

Concen: 0.867 ug/l

RT: 2.922 min Scan# 305

Delta R.T. -0.019 min

Lab File: VX048350.D

Acq: 24 Oct 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

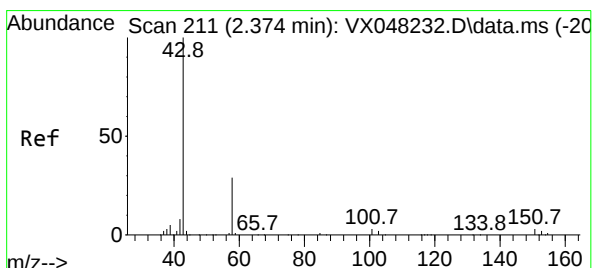
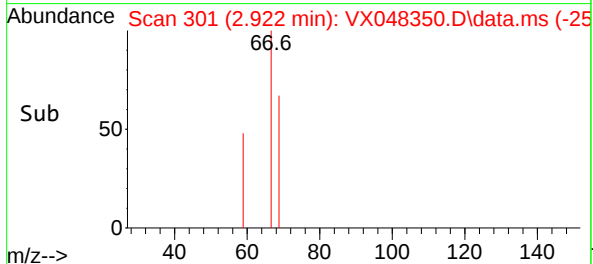
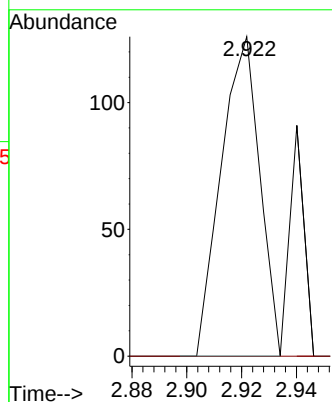
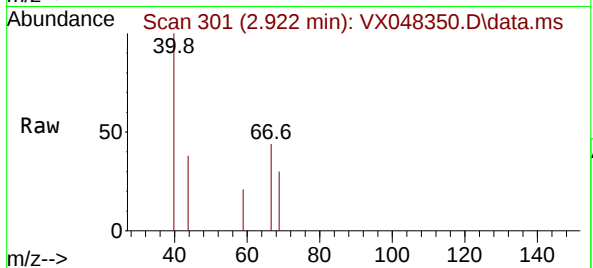
101625

Tgt Ion: 59 Resp: 123

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 7.069 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048350.D

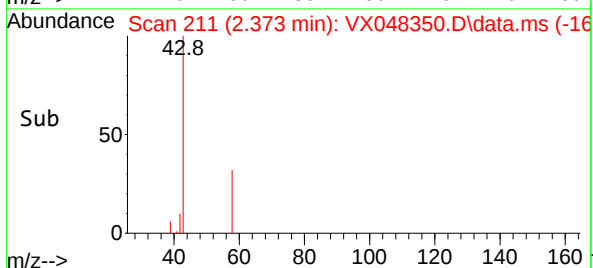
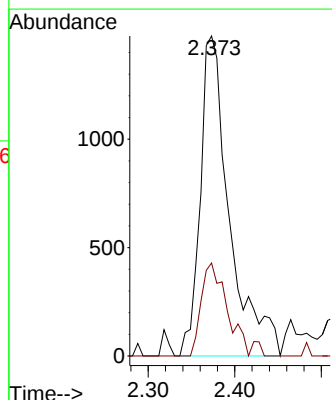
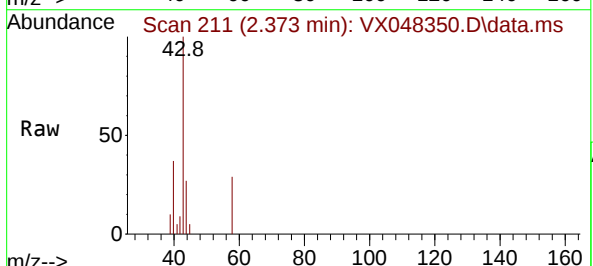
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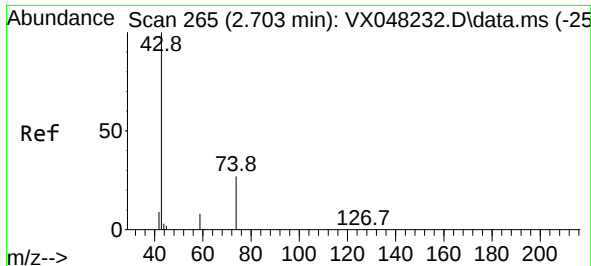
Tgt Ion: 43 Resp: 3463

Ion Ratio Lower Upper

43 100

58 22.9 23.4 35.2#

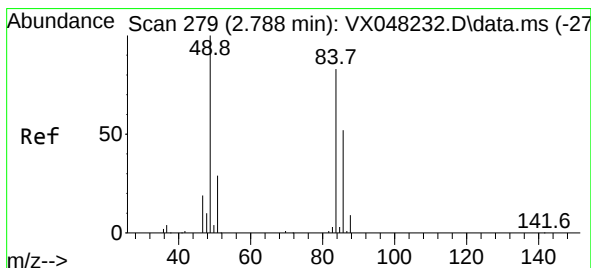
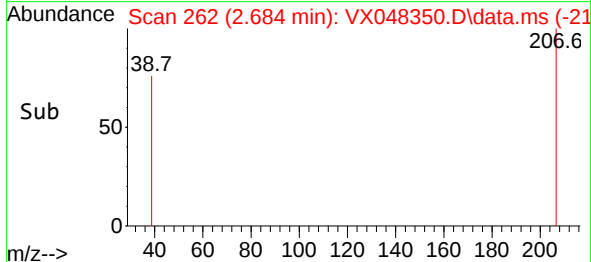
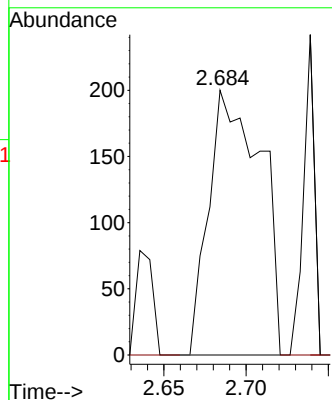
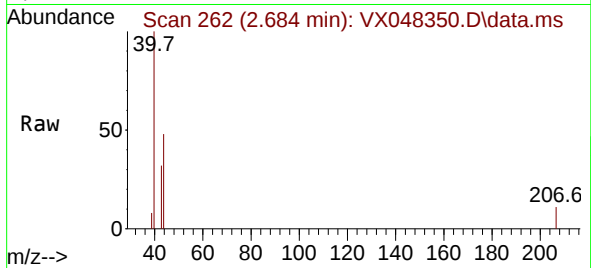




#18
Methyl Acetate
Concen: 0.429 ug/l
RT: 2.684 min Scan# 20
Delta R.T. -0.013 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

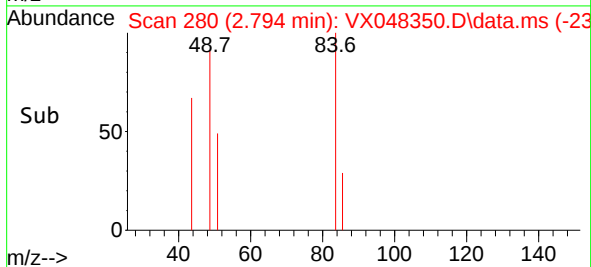
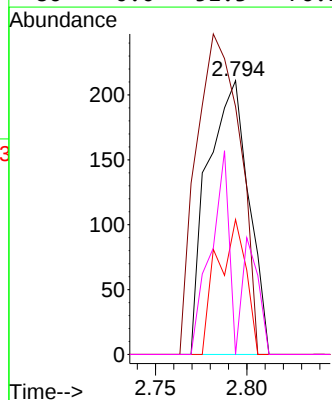
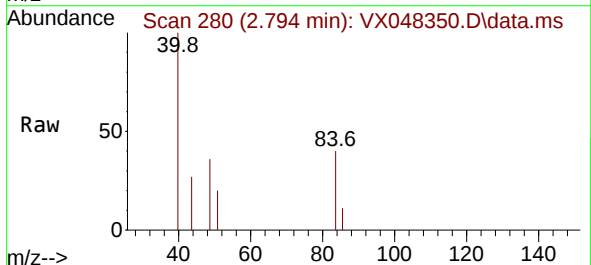
Instrument :
MSVOA_X
ClientSampleId :
101625

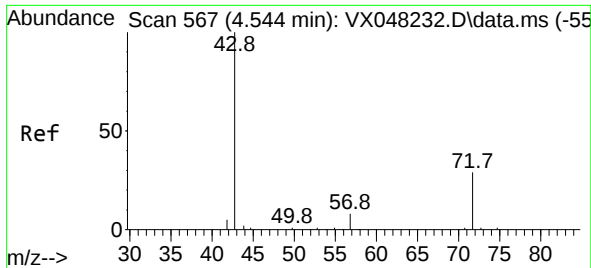
Tgt Ion: 43 Resp: 439
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.276 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion: 84 Resp: 330
Ion Ratio Lower Upper
84 100
49 90.5 104.1 156.1#
51 49.3 31.3 46.9#
86 0.0 51.3 76.9#

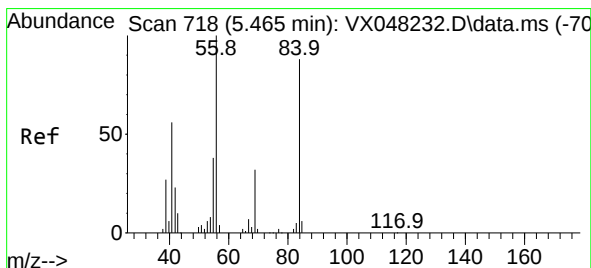
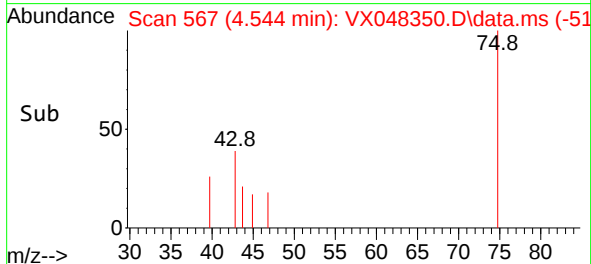
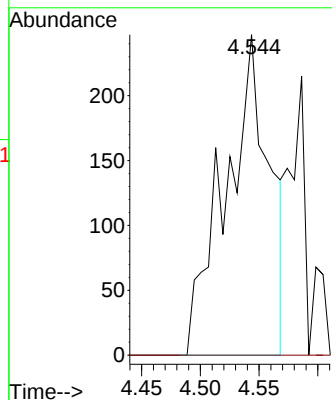
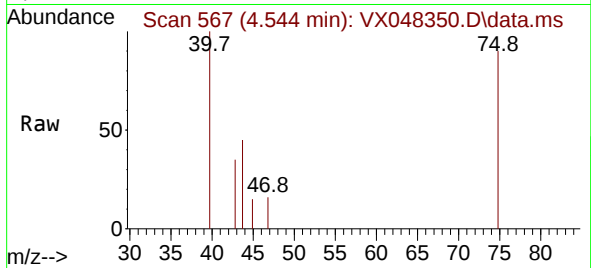




#25
2-Butanone
Concen: 1.027 ug/l
RT: 4.544 min Scan# 501
Delta R.T. 0.006 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

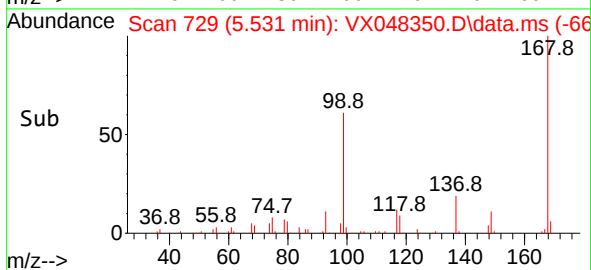
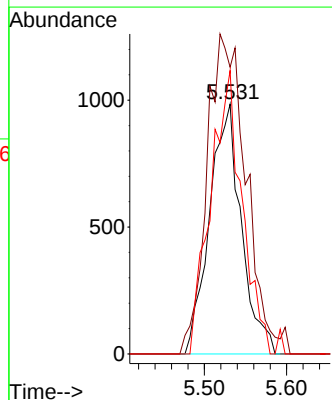
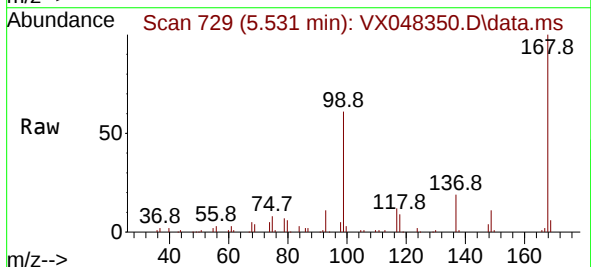
Instrument :
MSVOA_X
ClientSampleId :
101625

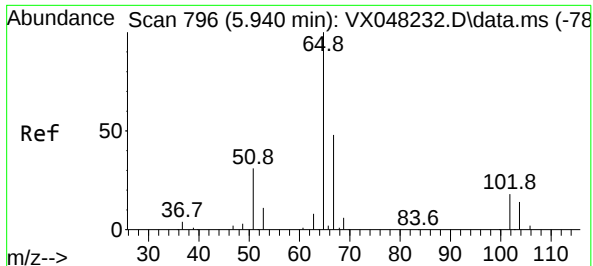
Tgt Ion: 43 Resp: 637
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.486 ug/l
RT: 5.531 min Scan# 729
Delta R.T. 0.073 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion: 56 Resp: 2634
Ion Ratio Lower Upper
56 100
69 114.7 23.0 34.6#
84 113.4 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 65.113 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048350.D

Acq: 24 Oct 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

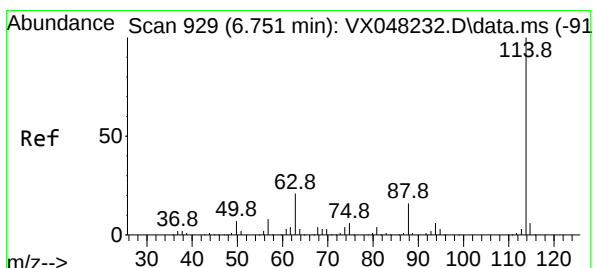
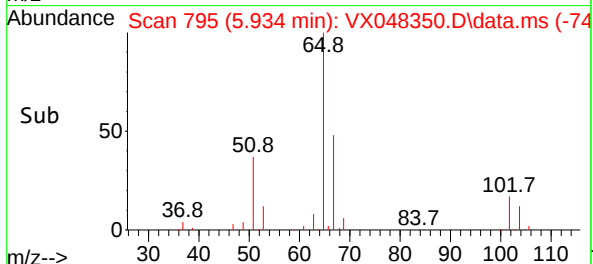
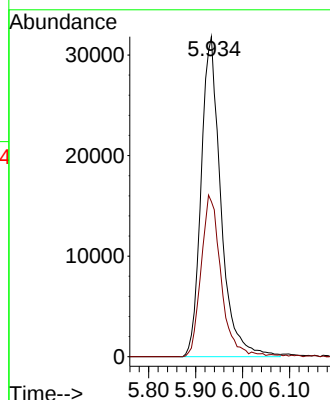
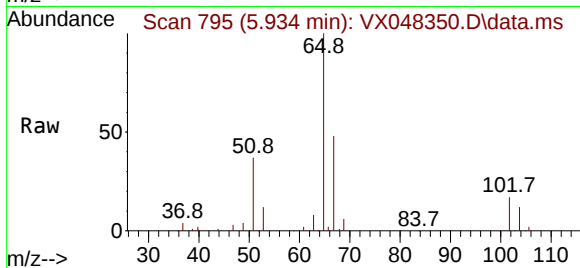
101625

Tgt Ion: 65 Resp: 92986

Ion Ratio Lower Upper

65 100

67 51.0 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.738 min Scan# 927

Delta R.T. -0.007 min

Lab File: VX048350.D

Acq: 24 Oct 2025 14:47

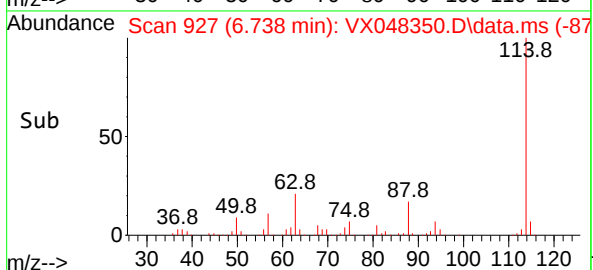
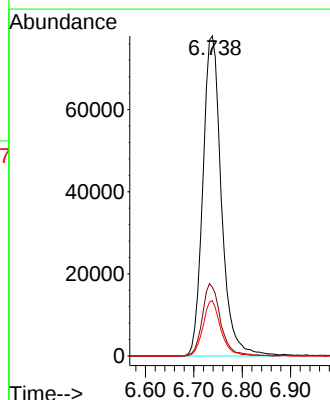
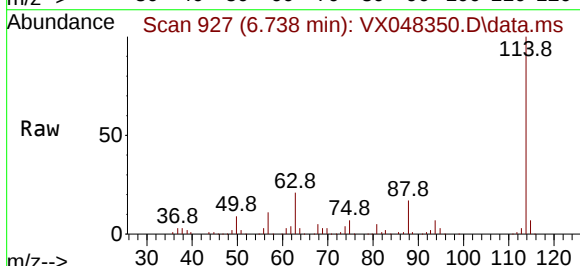
Tgt Ion:114 Resp: 207590

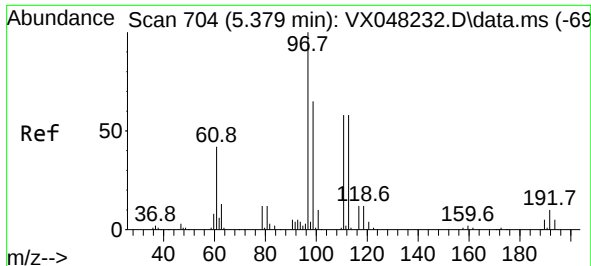
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.2

88 17.3 0.0 33.6

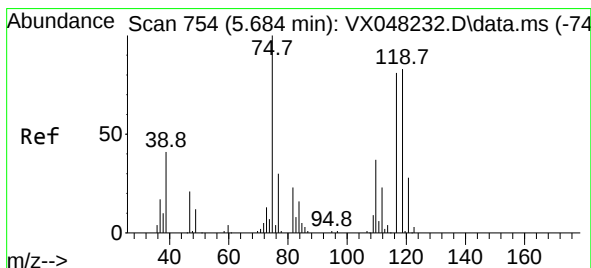
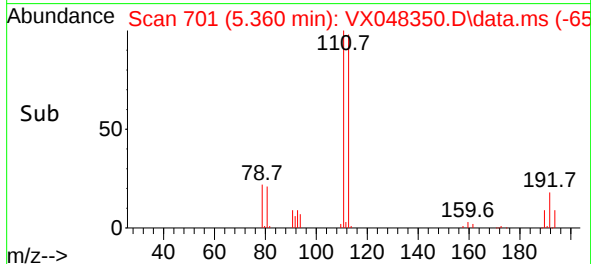
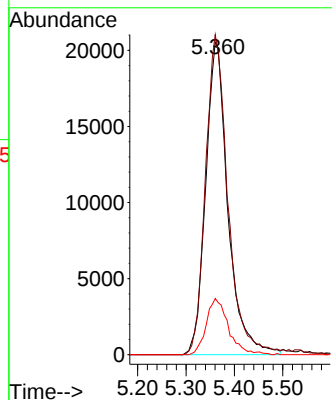
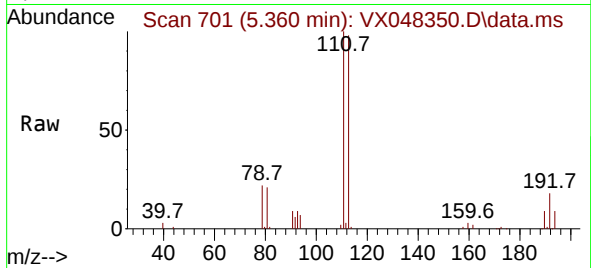




#35
Dibromofluoromethane
Concen: 46.287 ug/l
RT: 5.360 min Scan# 704
Delta R.T. -0.013 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

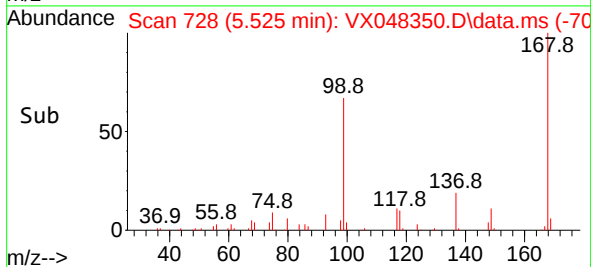
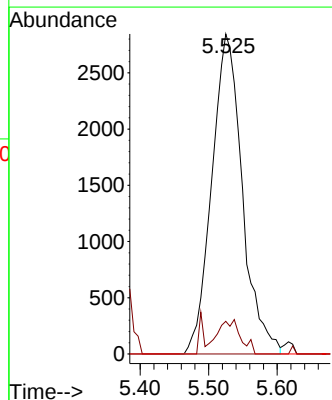
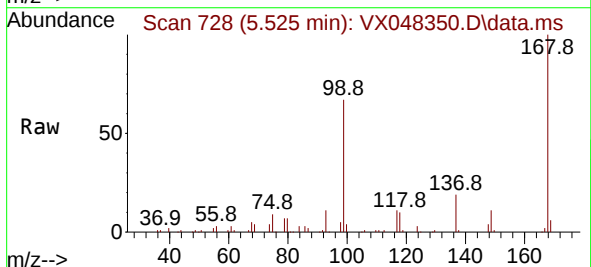
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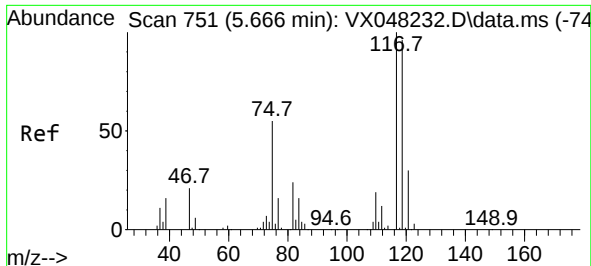
Tgt Ion:113 Resp: 65598
Ion Ratio Lower Upper
113 100
111 103.5 82.2 123.4
192 18.0 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.371 ug/l
RT: 5.525 min Scan# 728
Delta R.T. -0.159 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

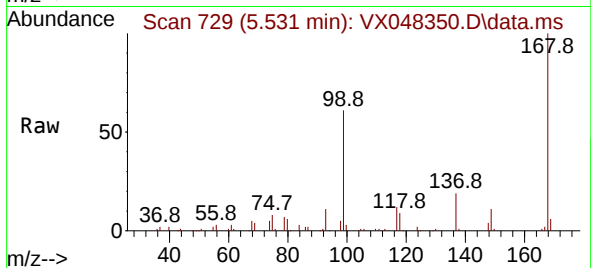
Tgt Ion: 75 Resp: 8805
Ion Ratio Lower Upper
75 100
110 7.9 17.7 53.1#
77 0.0 24.3 36.5#



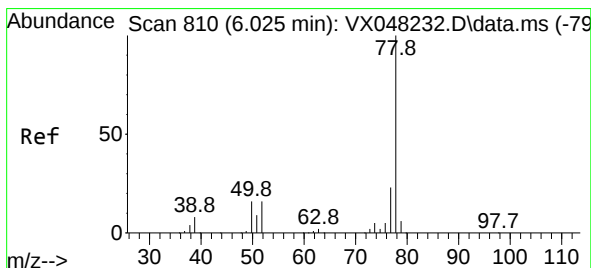
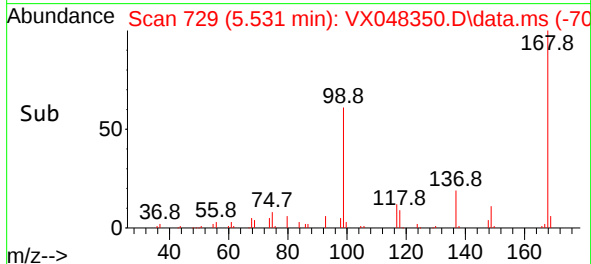
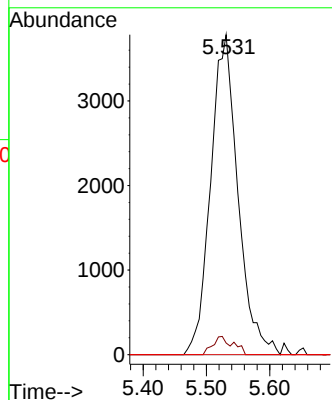


#38
Carbon Tetrachloride
Concen: 4.560 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.135 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Instrument :
MSVOA_X
ClientSampleId :
101625

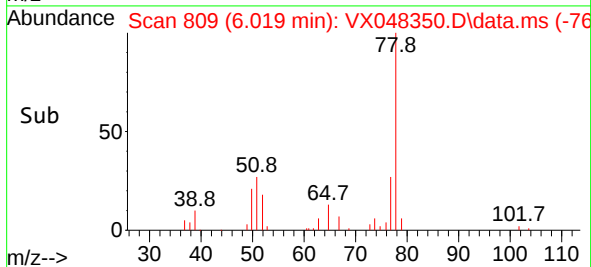
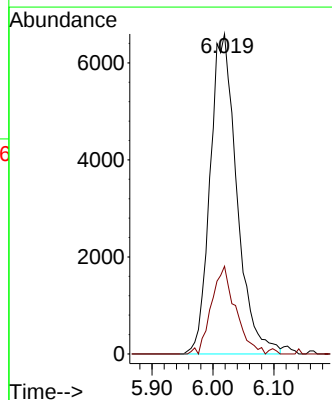
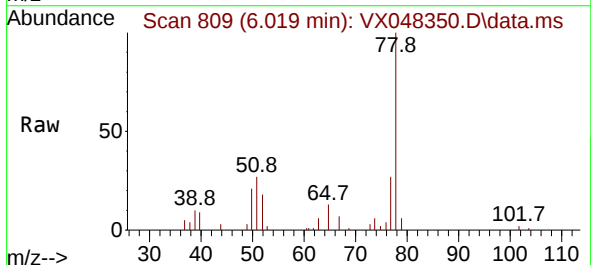


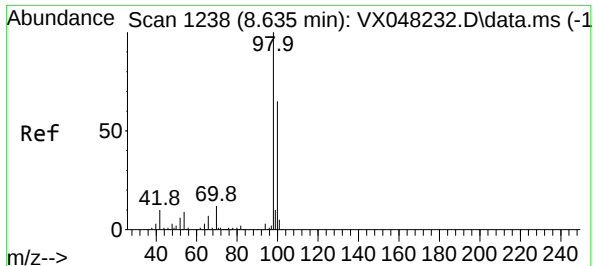
Tgt Ion:117 Resp: 11332
Ion Ratio Lower Upper
117 100
119 3.6 77.2 115.8#
121 0.0 24.8 37.2#



#40
Benzene
Concen: 3.436 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion: 78 Resp: 20092
Ion Ratio Lower Upper
78 100
77 27.4 19.3 28.9





#50

Toluene-d8

Concen: 52.798 ug/l

RT: 8.628 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX048350.D

Acq: 24 Oct 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

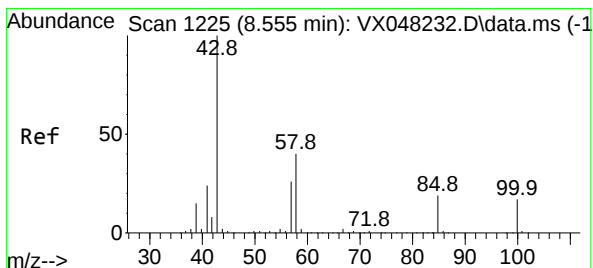
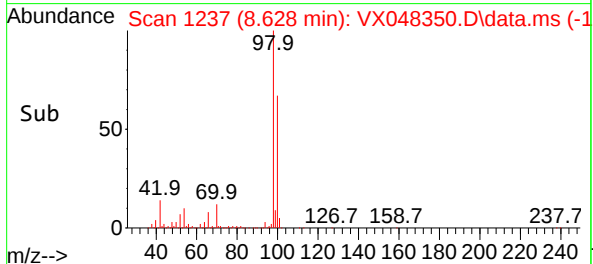
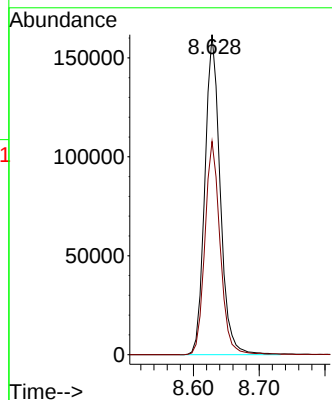
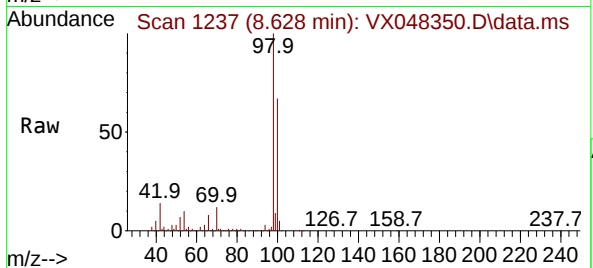
101625

Tgt Ion: 98 Resp: 262270

Ion Ratio Lower Upper

98 100

100 66.1 53.0 79.4



#51

4-Methyl-2-Pentanone

Concen: 0.307 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.006 min

Lab File: VX048350.D

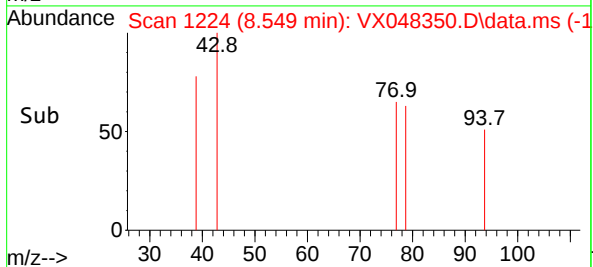
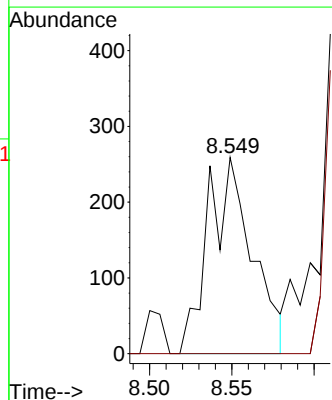
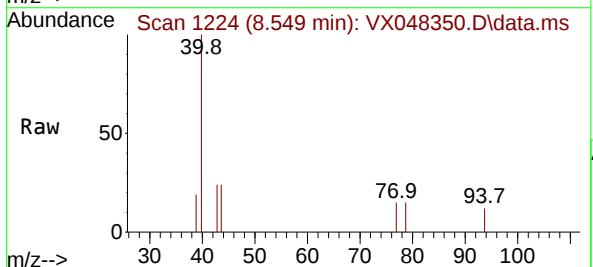
Acq: 24 Oct 2025 14:47

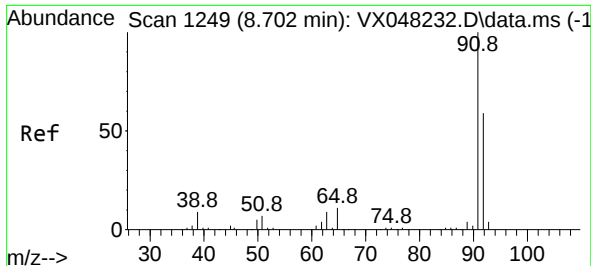
Tgt Ion: 43 Resp: 485

Ion Ratio Lower Upper

43 100

58 0.0 29.5 44.3#

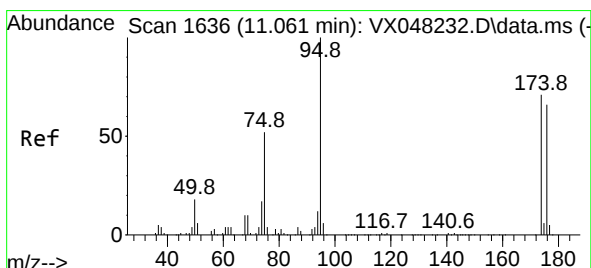
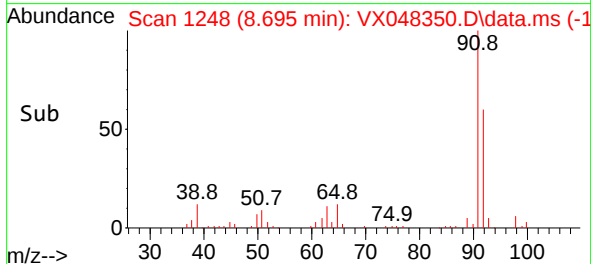
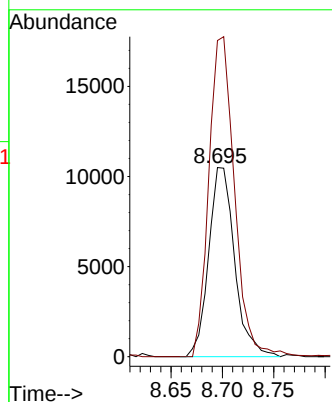
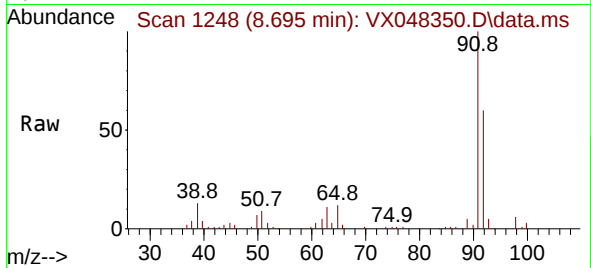




#52
Toluene
Concen: 4.964 ug/l
RT: 8.695 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

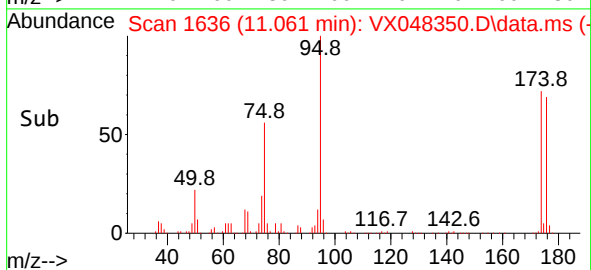
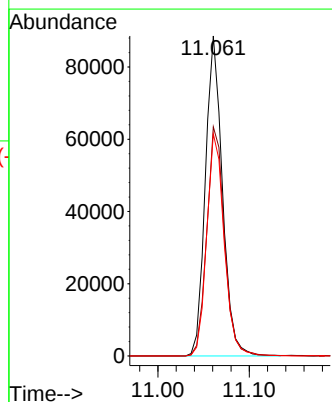
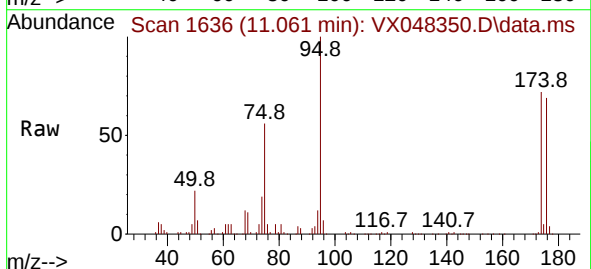
Instrument :
MSVOA_X
ClientSampleId :
101625

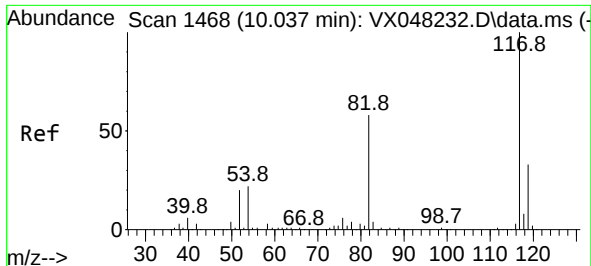
Tgt Ion: 92 Resp: 18441
Ion Ratio Lower Upper
92 100
91 167.2 136.1 204.1



#62
4-Bromofluorobenzene
Concen: 60.617 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion: 95 Resp: 114552
Ion Ratio Lower Upper
95 100
174 74.3 0.0 147.8
176 71.1 0.0 142.8

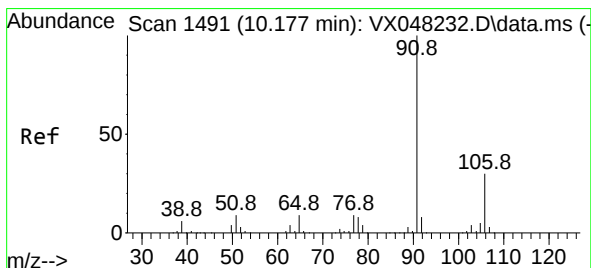
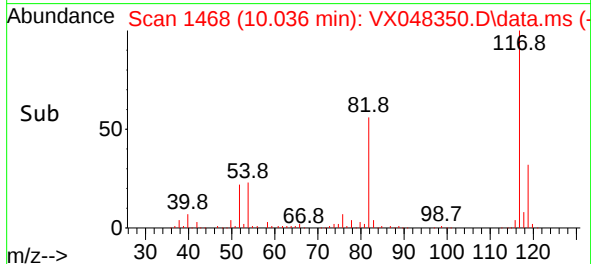
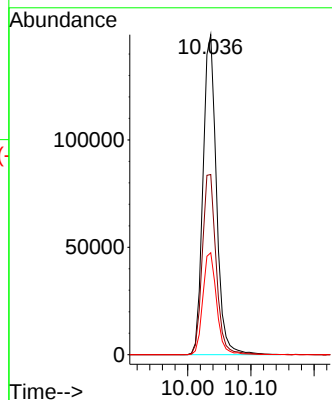
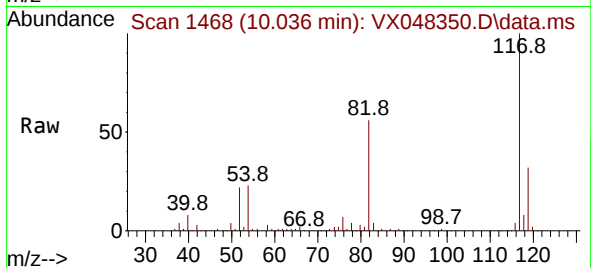




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

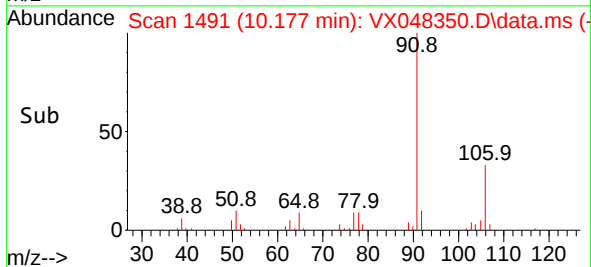
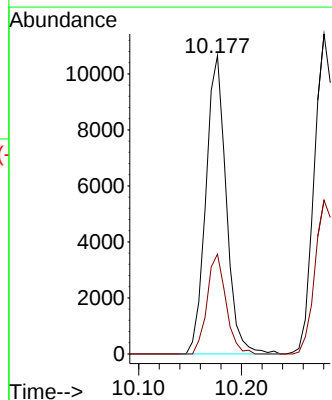
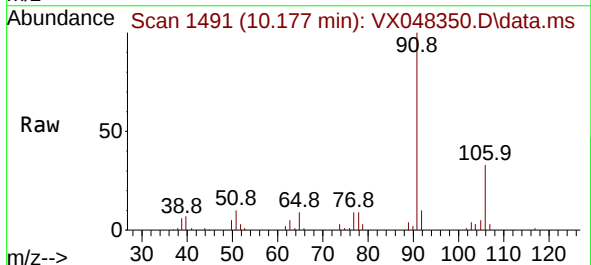
Instrument :
MSVOA_X
ClientSampleId :
101625

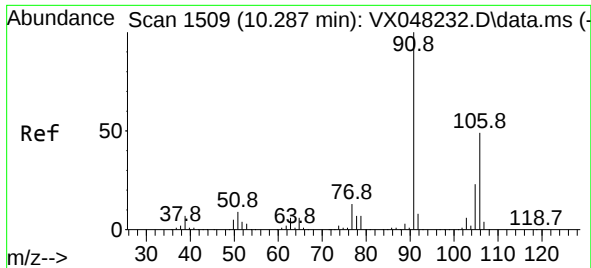
Tgt Ion:117 Resp: 220848
Ion Ratio Lower Upper
117 100
82 56.3 46.5 69.7
119 31.9 25.9 38.9



#67
Ethyl Benzene
Concen: 1.734 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion: 91 Resp: 14668
Ion Ratio Lower Upper
91 100
106 33.4 23.8 35.6

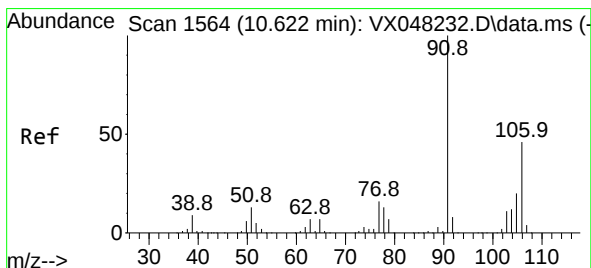
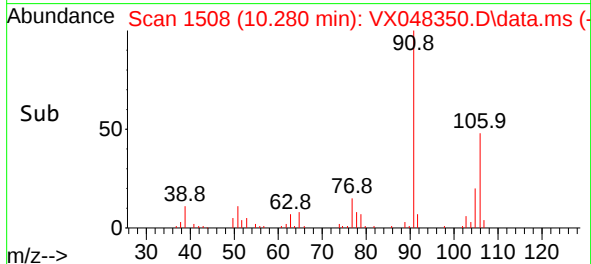
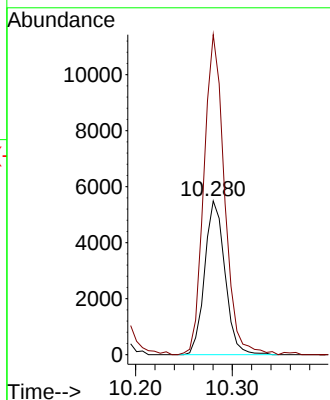
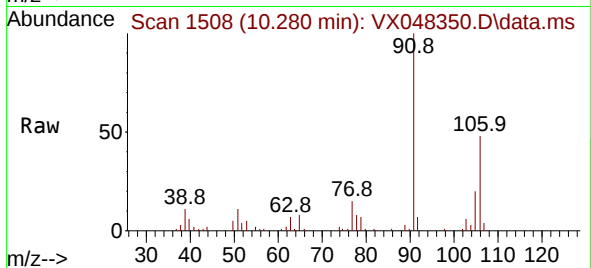




#68
m/p-Xylenes
Concen: 2.553 ug/l
RT: 10.280 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

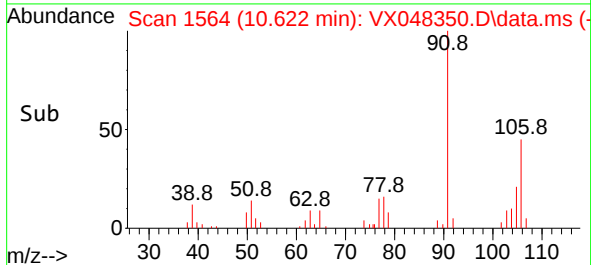
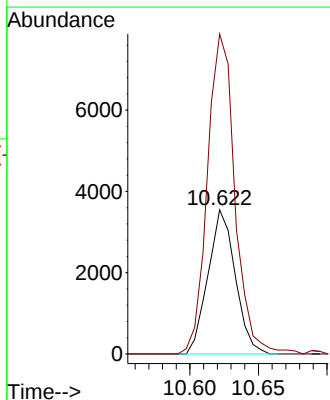
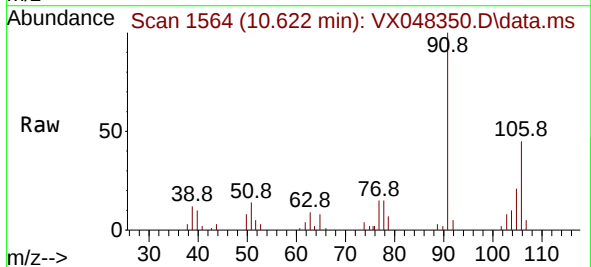
Instrument :
MSVOA_X
ClientSampleId :
101625

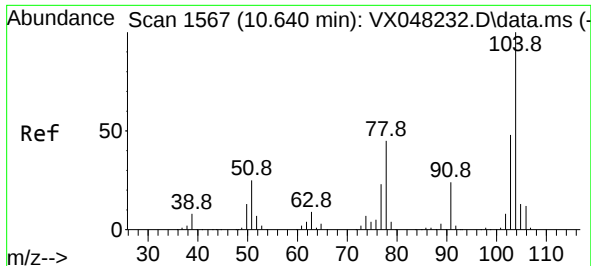
Tgt Ion:106 Resp: 8022
Ion Ratio Lower Upper
106 100
91 211.0 167.9 251.9



#69
o-Xylene
Concen: 1.619 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion:106 Resp: 4912
Ion Ratio Lower Upper
106 100
91 224.1 111.3 333.9

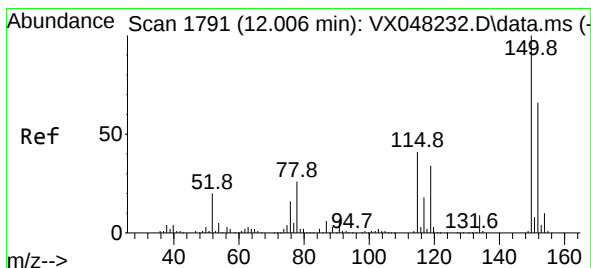
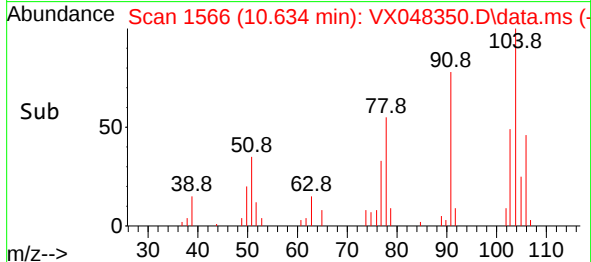
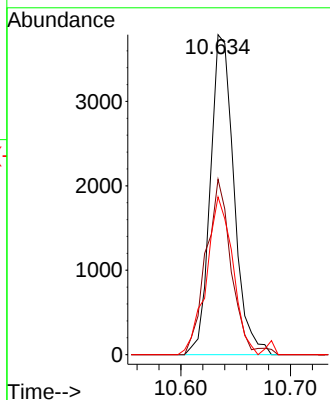
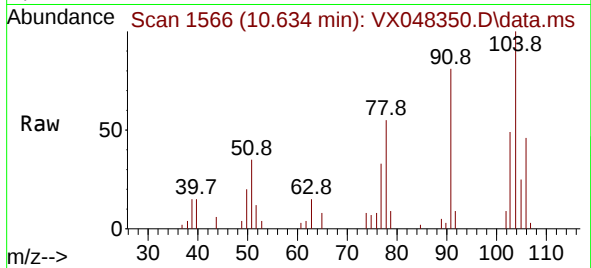




#70
Styrene
Concen: 1.100 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

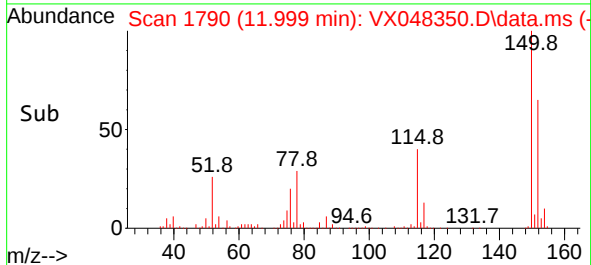
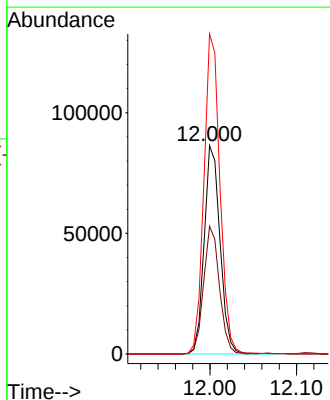
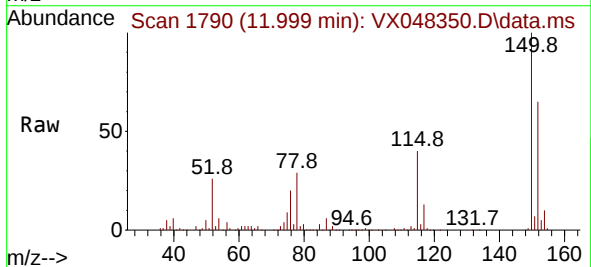
Instrument :
MSVOA_X
ClientSampleId :
101625

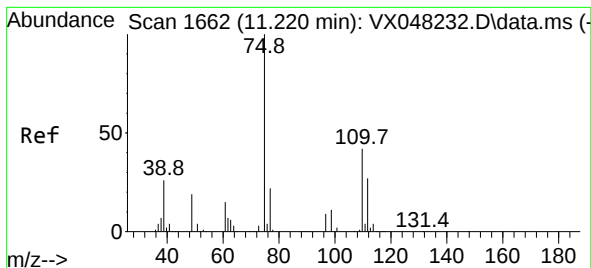
Tgt Ion:104 Resp: 5683
Ion Ratio Lower Upper
104 100
78 58.9 42.2 63.4
103 55.2 43.0 64.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.999 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion:152 Resp: 109851
Ion Ratio Lower Upper
152 100
115 61.1 43.1 129.4
150 154.9 0.0 353.0





#76

1,2,3-Trichloropropane

Concen: 35.471 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX048350.D

Acq: 24 Oct 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

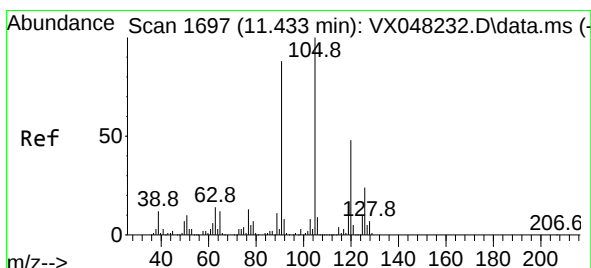
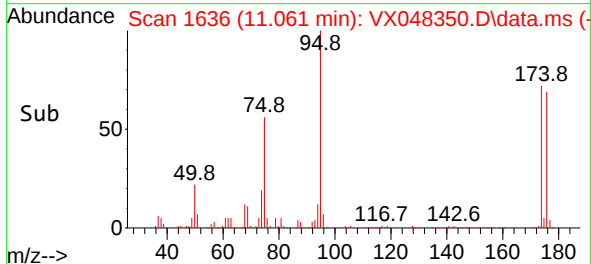
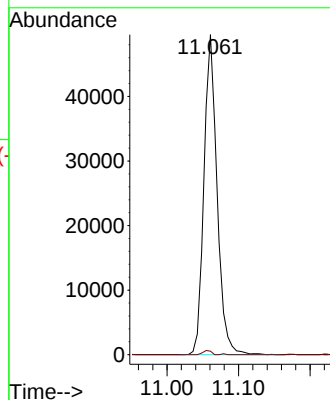
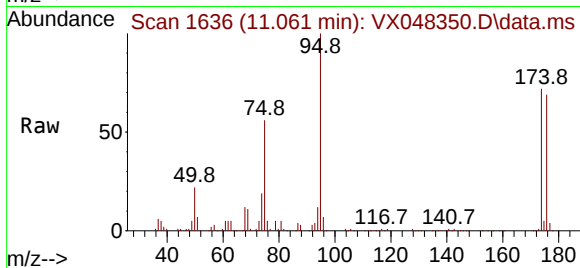
101625

Tgt Ion: 75 Resp: 63189

Ion Ratio Lower Upper

75 100

77 0.8 22.4 67.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.383 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048350.D

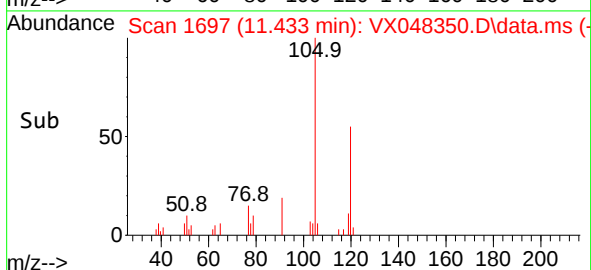
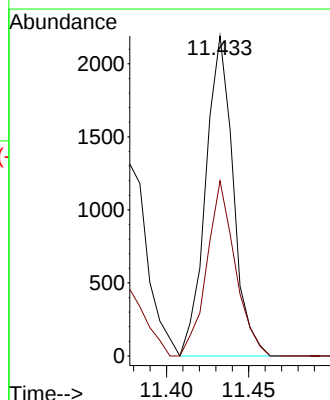
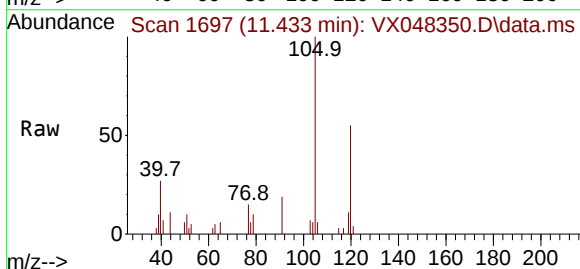
Acq: 24 Oct 2025 14:47

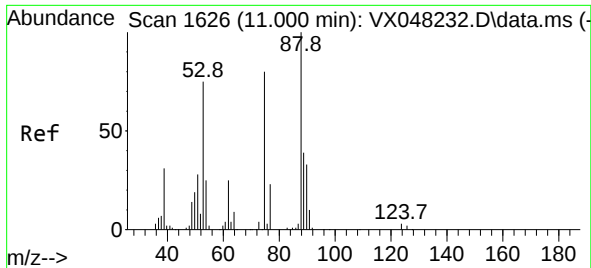
Tgt Ion: 105 Resp: 2541

Ion Ratio Lower Upper

105 100

120 56.7 24.0 72.0

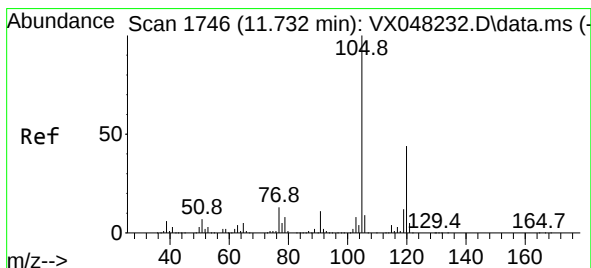
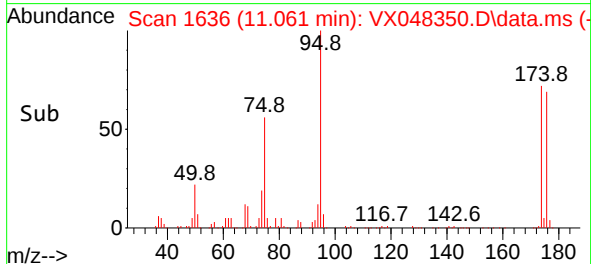
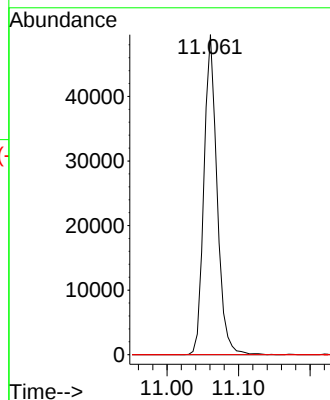
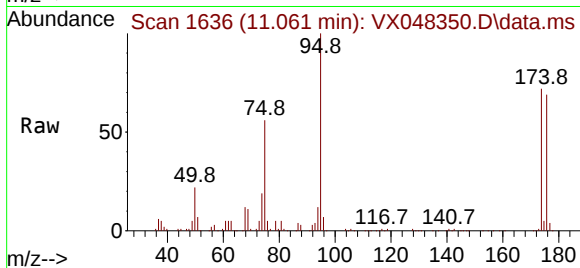




#81
trans-1,4-Dichloro-2-butene
Concen: 86.299 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

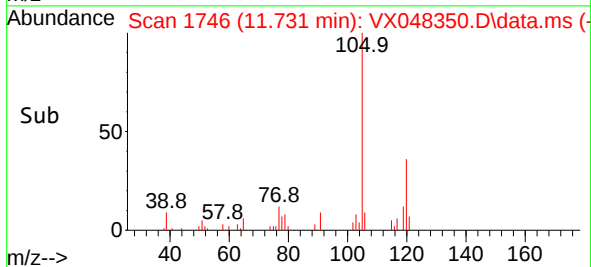
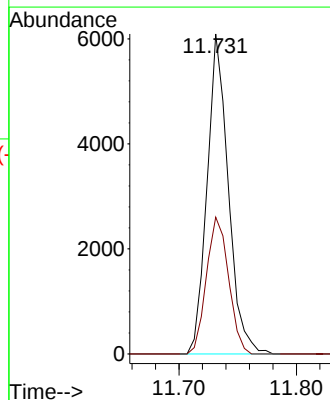
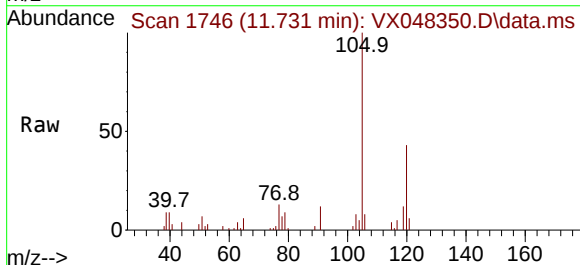
Instrument :
MSVOA_X
ClientSampleId :
101625

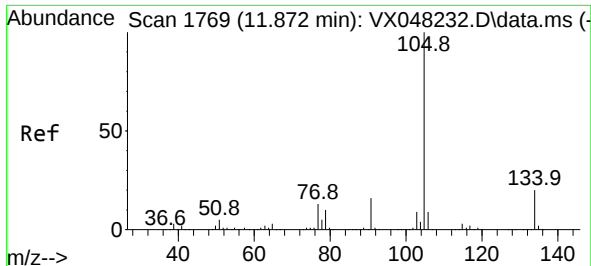
Tgt Ion: 75 Resp: 63189
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#84
1,2,4-Trimethylbenzene
Concen: 1.151 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048350.D
Acq: 24 Oct 2025 14:47

Tgt Ion: 105 Resp: 7630
Ion Ratio Lower Upper
105 100
120 44.6 22.1 66.5





#85

sec-Butylbenzene

Concen: 0.930 ug/l

RT: 11.731 min Scan# 1

Delta R.T. -0.141 min

Lab File: VX048350.D

Acq: 24 Oct 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

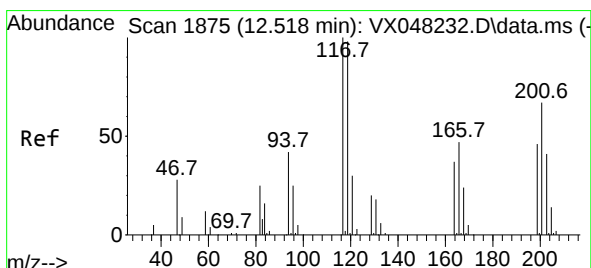
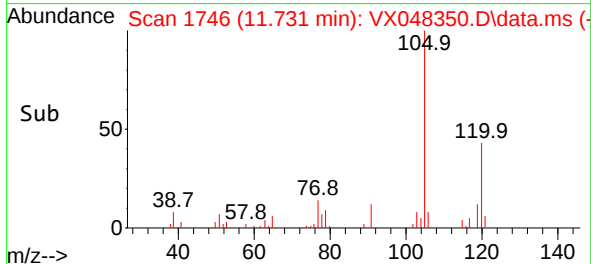
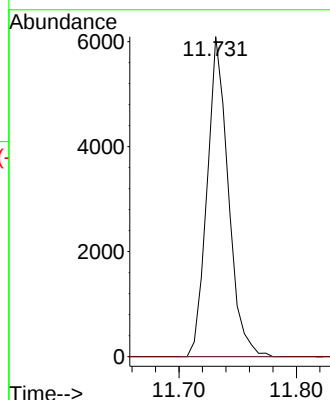
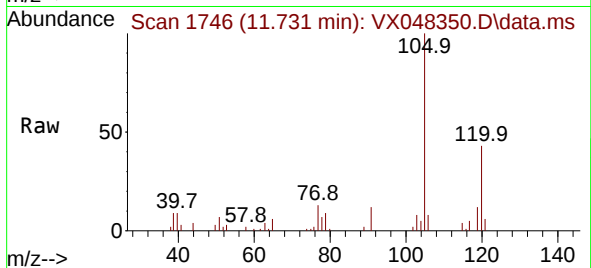
101625

Tgt Ion:105 Resp: 7630

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#



#90

Hexachloroethane

Concen: 3.855 ug/l

RT: 12.396 min Scan# 1855

Delta R.T. -0.122 min

Lab File: VX048350.D

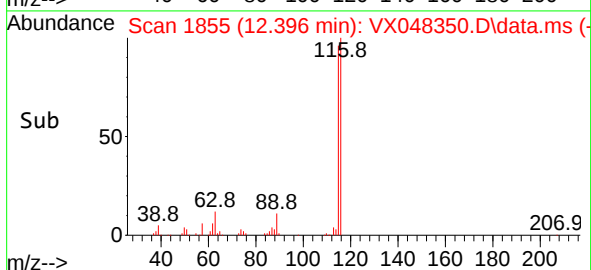
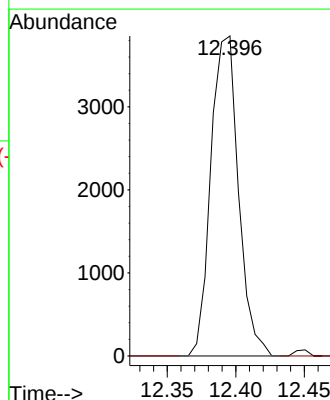
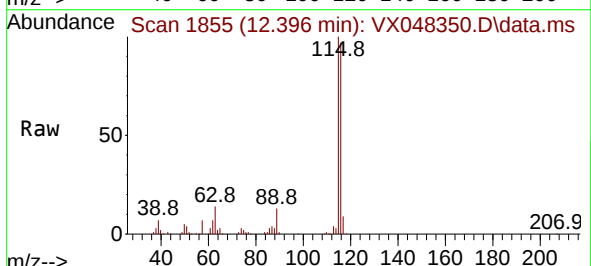
Acq: 24 Oct 2025 14:47

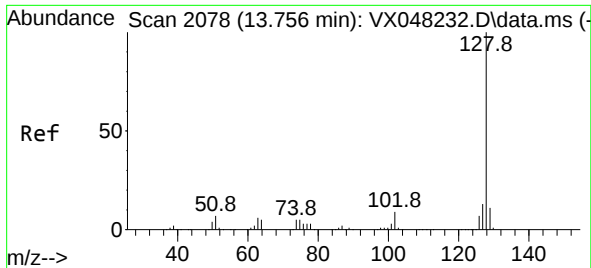
Tgt Ion:117 Resp: 5401

Ion Ratio Lower Upper

117 100

201 0.0 34.1 102.2#





#95

Naphthalene

Concen: 50.289 ug/l

RT: 13.755 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX048350.D

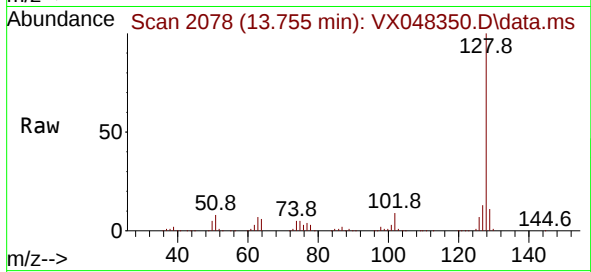
Acq: 24 Oct 2025 14:47

Instrument :

MSVOA_X

ClientSampleId :

101625



Tgt Ion:128 Resp: 320837

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

129 10.8 8.6 12.8

