

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046658.D
 Acq On : 12 Jun 2025 12:48
 Operator : JC/MD
 Sample : VX0612MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0612MBL01

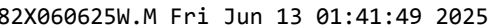
Quant Time: Jun 13 01:41:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	60434	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	104695	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	96611	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	50000	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	56116	52.192	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.380%	
35) Dibromofluoromethane	5.397	113	45477	59.067	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 118.140%	
50) Toluene-d8	8.653	98	149585	58.930	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 117.860%#	
62) 4-Bromofluorobenzene	11.079	95	63161	60.140	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 120.280%	
Target Compounds						Qvalue
5) Bromomethane	1.636	94	214	0.463	ug/l #	80
10) Methyl Iodide	2.477	142	725	0.843	ug/l #	82
13) Acrolein	2.252	56	143	30.878	ug/l #	59
15) Acrylonitrile	3.087	53	232	0.514	ug/l #	59
16) Acetone	2.392	43	503	5.764	ug/l	93
17) Carbon Disulfide	2.532	76	1747	1.345	ug/l #	76
20) Methylene Chloride	2.806	84	622	0.721	ug/l #	89
21) trans-1,2-Dichloroethene	3.105	96	217	0.286	ug/l #	88
31) Cyclohexane	5.568	56	1373	1.098	ug/l #	36
36) 1,1-Dichloropropene	5.556	75	4863	4.422	ug/l #	51
38) Carbon Tetrachloride	5.562	117	6510	5.285	ug/l #	17
68) m/p-Xylenes	10.311	106	337	0.234	ug/l	92
76) 1,2,3-Trichloropropane	11.079	75	32577	30.760	ug/l #	36
77) Bromobenzene	11.195	156	183	0.201	ug/l	74
79) 2-Chlorotoluene	11.463	91	795	0.277	ug/l	87
81) trans-1,4-Dichloro-2-b...	11.079	75	32577	88.731	ug/l #	1
82) 4-Chlorotoluene	11.463	91	795	0.234	ug/l	95
85) sec-Butylbenzene	11.890	105	975	0.228	ug/l	96
86) p-Isopropyltoluene	12.012	119	930	0.260	ug/l	87
87) 1,3-Dichlorobenzene	11.969	146	642	0.362	ug/l	85
88) 1,4-Dichlorobenzene	11.969	146	642	0.350	ug/l	87
89) n-Butylbenzene	12.341	91	1160	0.331	ug/l	98
93) 1,2,4-Trichlorobenzene	13.597	180	704	0.604	ug/l	90
94) Hexachlorobutadiene	13.725	225	356	0.657	ug/l	92
95) Naphthalene	13.786	128	1612	0.436	ug/l #	86
96) 1,2,3-Trichlorobenzene	13.963	180	617	0.527	ug/l	83

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

Quant Time: Jun 13 01:41:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

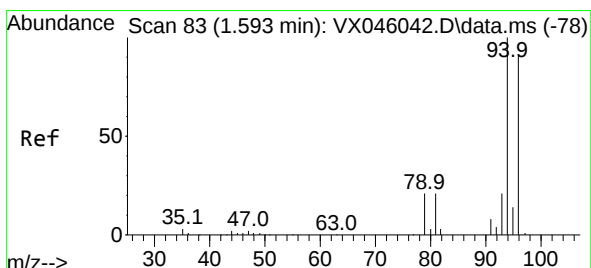
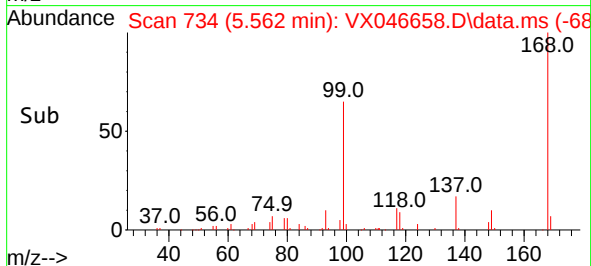
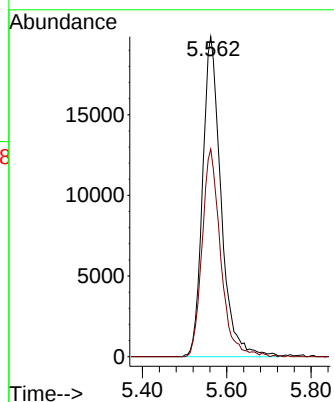
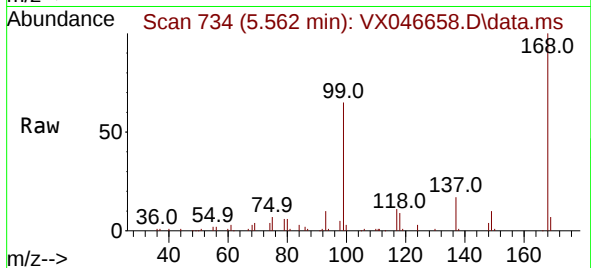




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

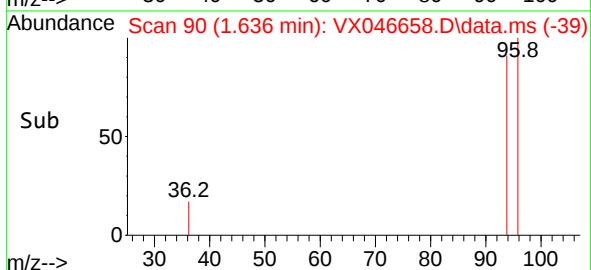
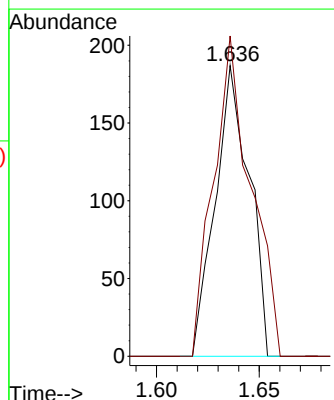
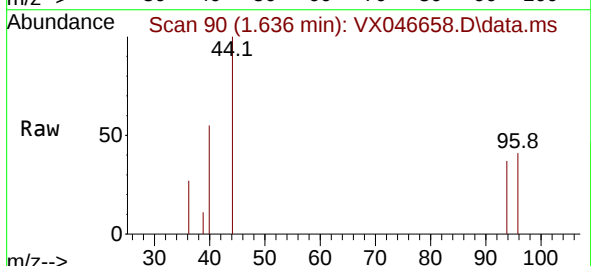
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

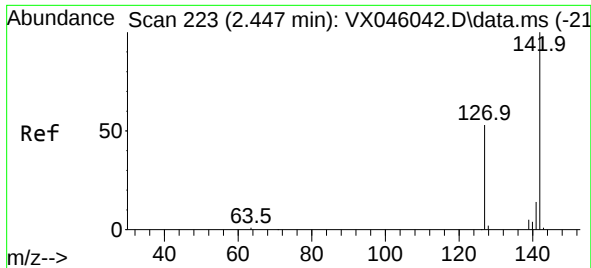
Tgt Ion:168 Resp: 60434
Ion Ratio Lower Upper
168 100
99 64.9 54.9 82.3



#5
Bromomethane
Concen: 0.463 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.012 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion: 94 Resp: 214
Ion Ratio Lower Upper
94 100
96 110.2 72.8 109.2#

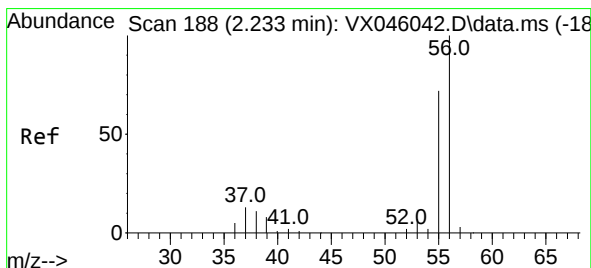
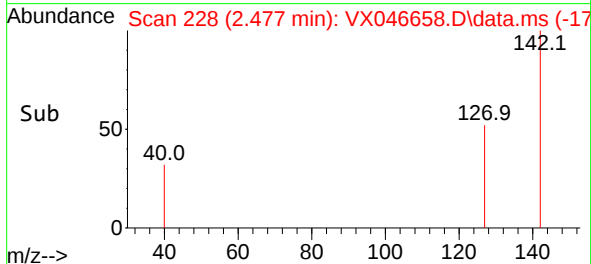
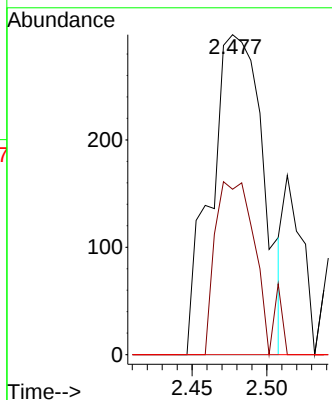
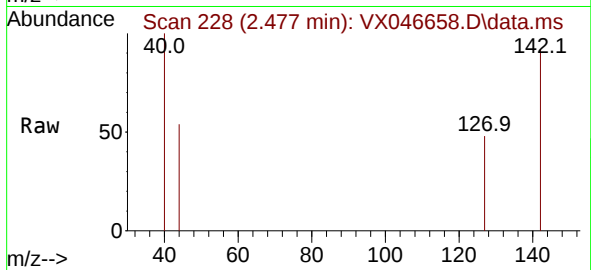




#10
Methyl Iodide
Concen: 0.843 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

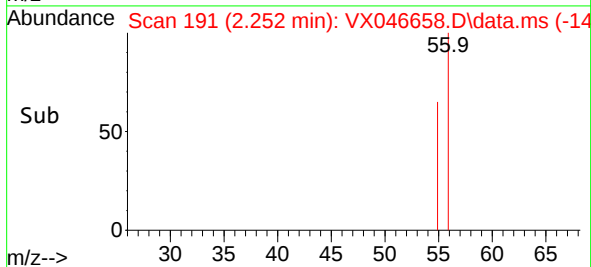
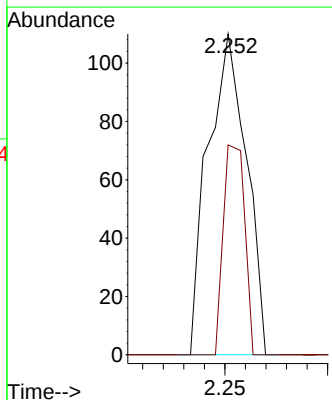
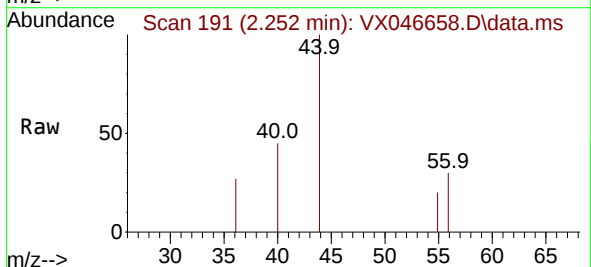
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

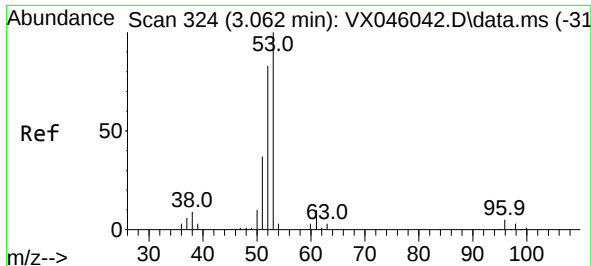
Tgt Ion:142 Resp: 725
Ion Ratio Lower Upper
142 100
127 43.0 41.7 62.5
141 0.0 11.5 17.3#



#13
Acrolein
Concen: 30.878 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.001 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 36.4 56.2 84.4#





#15

Acrylonitrile

Concen: 0.514 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX046658.D

Acq: 12 Jun 2025 12:48

Instrument :

MSVOA_X

ClientSampleId :

VX0612MBL01

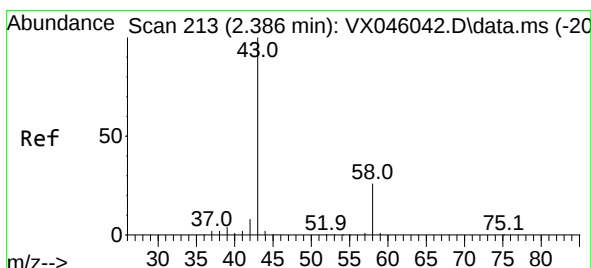
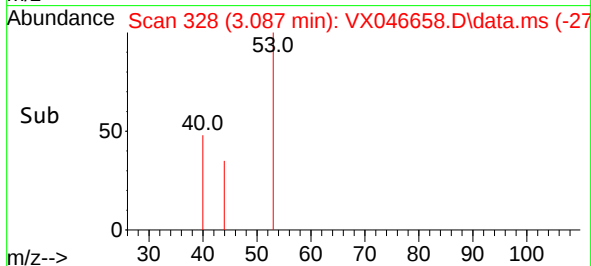
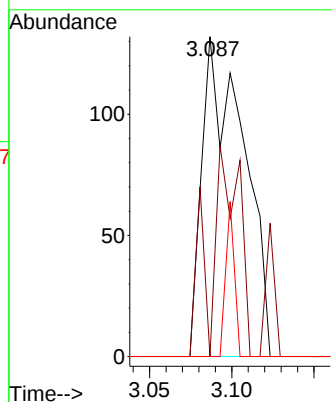
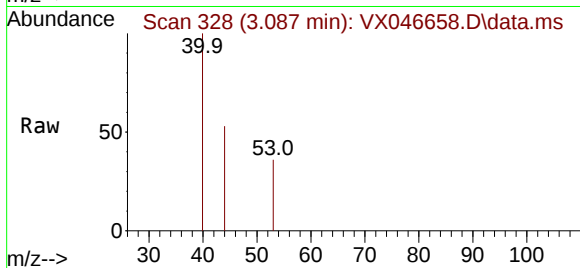
Tgt Ion: 53 Resp: 232

Ion Ratio Lower Upper

53 100

52 46.6 65.3 97.9#

51 9.9 29.8 44.8#



#16

Acetone

Concen: 5.764 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX046658.D

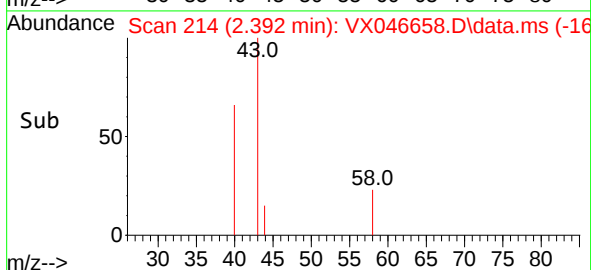
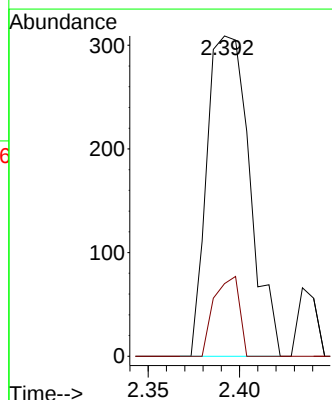
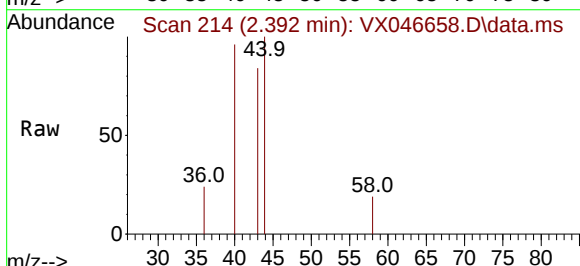
Acq: 12 Jun 2025 12:48

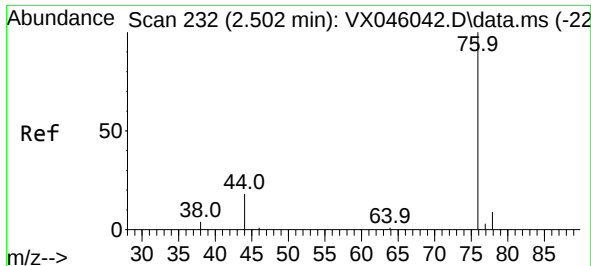
Tgt Ion: 43 Resp: 503

Ion Ratio Lower Upper

43 100

58 22.7 21.2 31.8

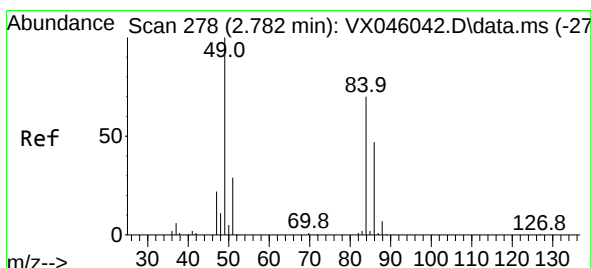
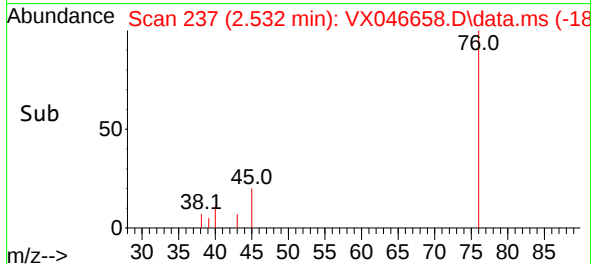
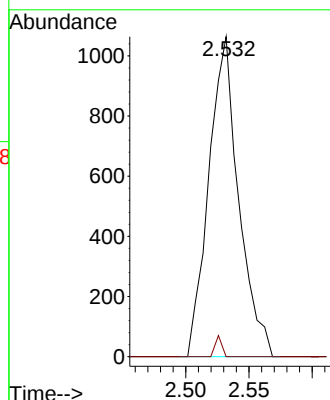
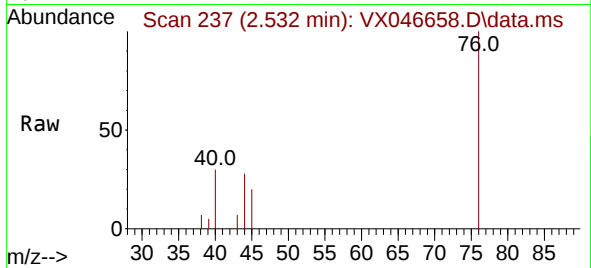




#17
Carbon Disulfide
Concen: 1.345 ug/l
RT: 2.532 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

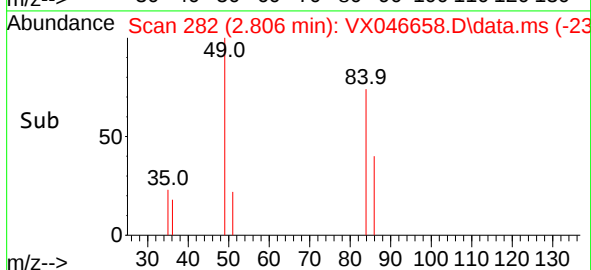
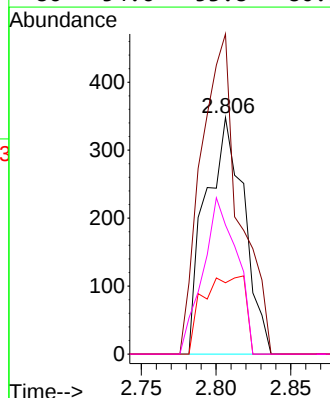
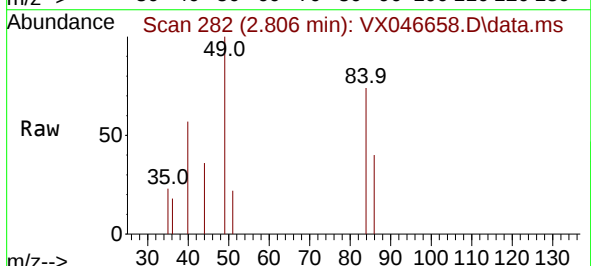
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

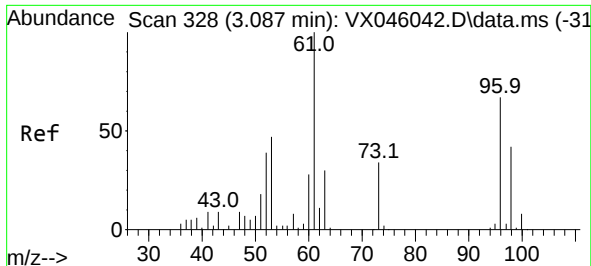
Tgt Ion: 76 Resp: 1747
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#20
Methylene Chloride
Concen: 0.721 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

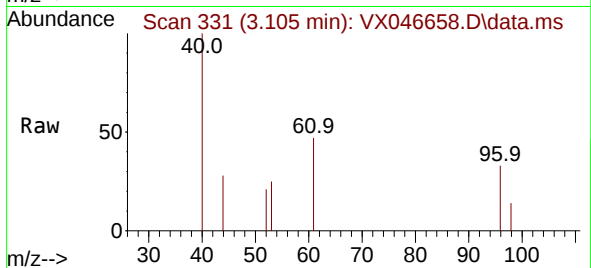
Tgt Ion: 84 Resp: 622
Ion Ratio Lower Upper
84 100
49 135.3 113.9 170.9
51 30.2 33.5 50.3#
86 54.6 53.8 80.8





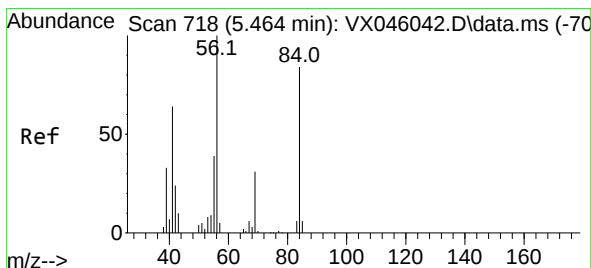
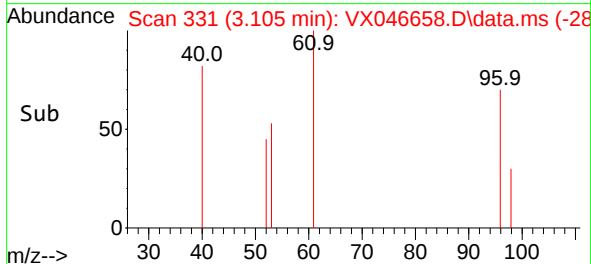
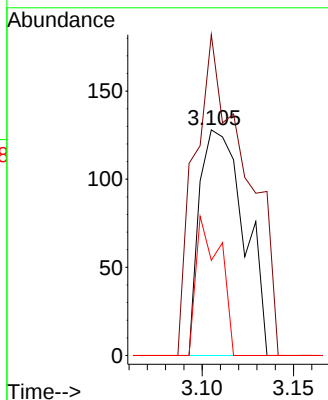
#21
trans-1,2-Dichloroethene
Concen: 0.286 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01



Tgt Ion: 96 Resp: 217

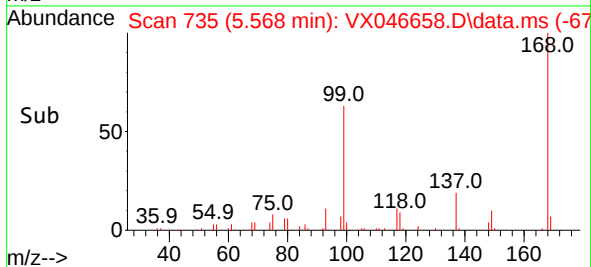
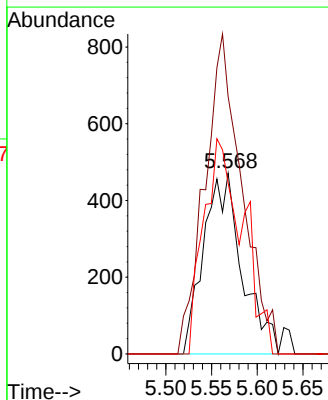
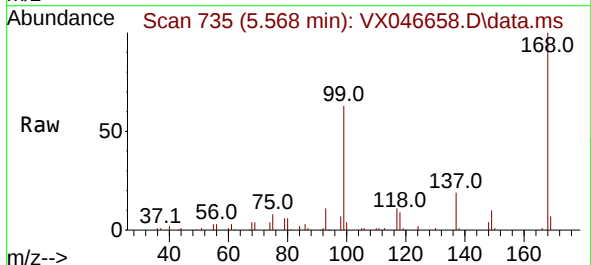
Ion	Ratio	Lower	Upper
96	100		
61	142.2	119.5	179.3
98	42.2	50.0	75.0

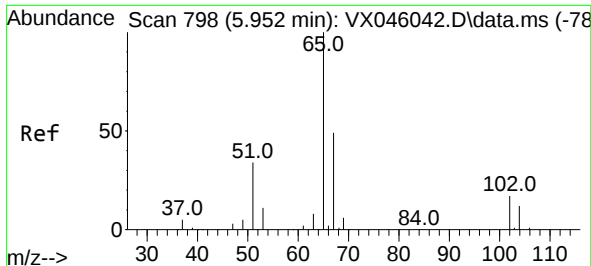


#31
Cyclohexane
Concen: 1.098 ug/l
RT: 5.568 min Scan# 735
Delta R.T. 0.079 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion: 56 Resp: 1373

Ion	Ratio	Lower	Upper
56	100		
69	142.5	24.4	36.6
84	94.7	66.9	100.3

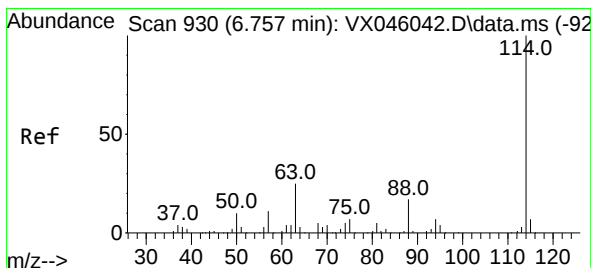
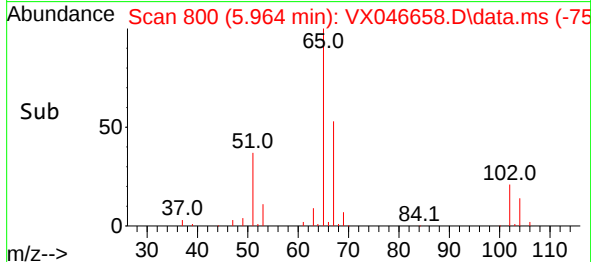
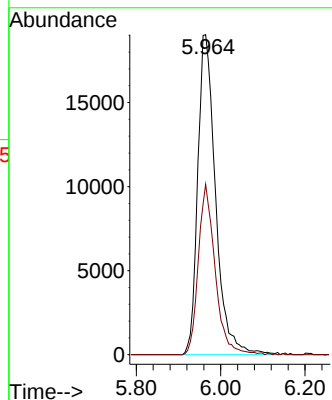
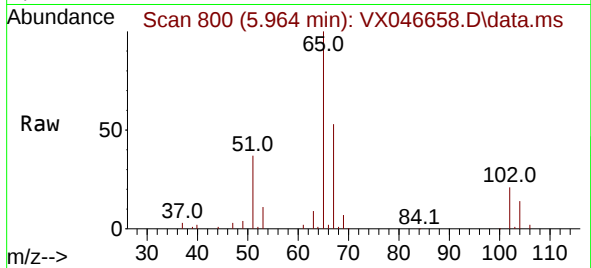




#33
 1,2-Dichloroethane-d4
 Concen: 52.192 ug/l
 RT: 5.964 min Scan# 800
 Delta R.T. -0.006 min
 Lab File: VX046658.D
 Acq: 12 Jun 2025 12:48

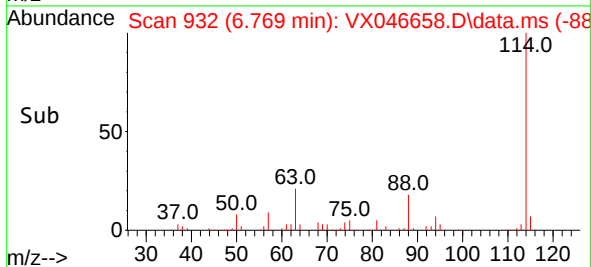
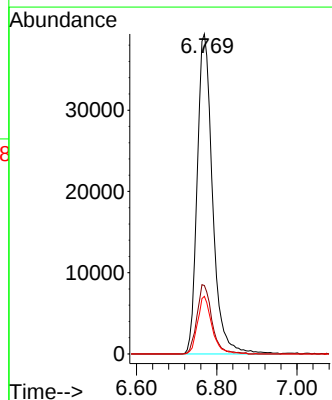
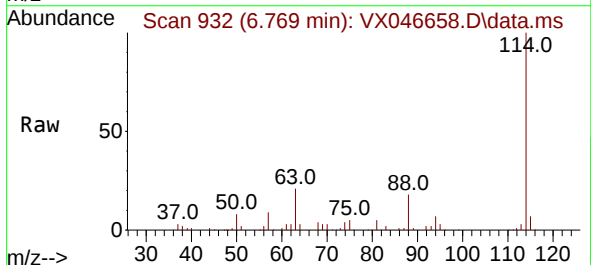
Instrument :
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 ClientSampleId :
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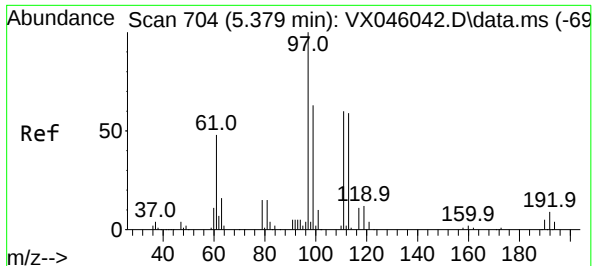
Tgt Ion: 65 Resp: 56116
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 99.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. -0.006 min
 Lab File: VX046658.D
 Acq: 12 Jun 2025 12:48

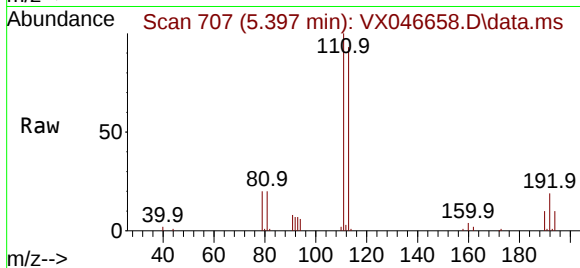
Tgt Ion: 114 Resp: 104695
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 49.2
 88 18.0 0.0 33.6



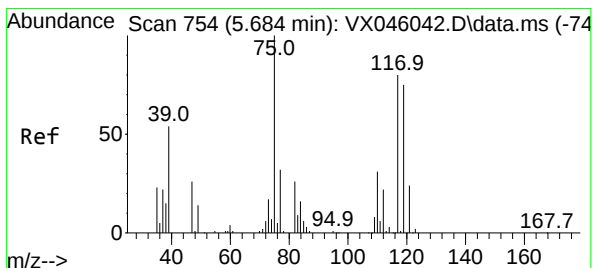
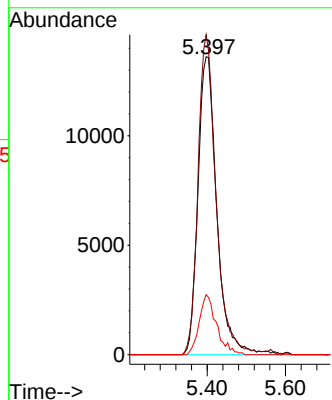
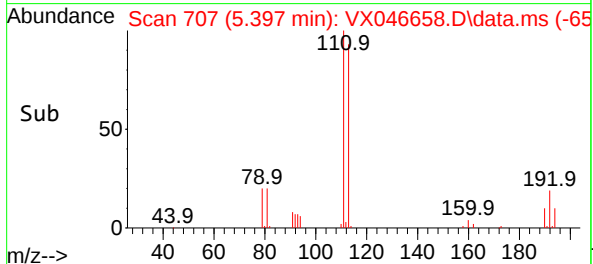


#35
Dibromofluoromethane
Concen: 59.067 ug/l
RT: 5.397 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

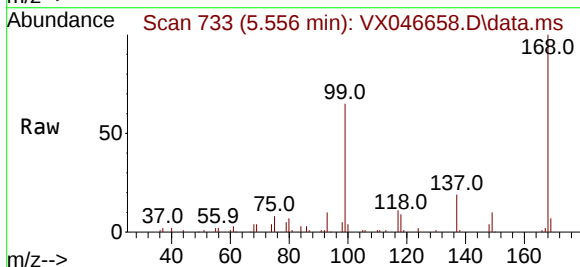
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01



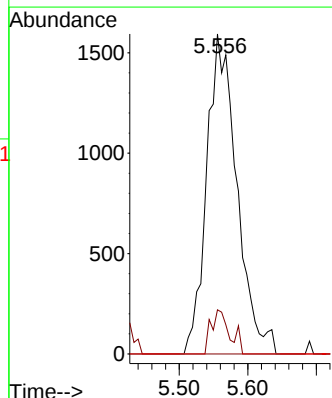
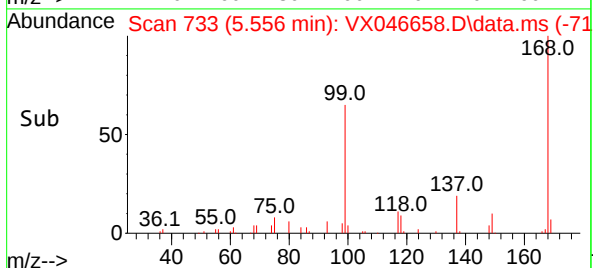
Tgt Ion:113 Resp: 45477
Ion Ratio Lower Upper
113 100
111 102.8 83.1 124.7
192 18.5 13.3 19.9

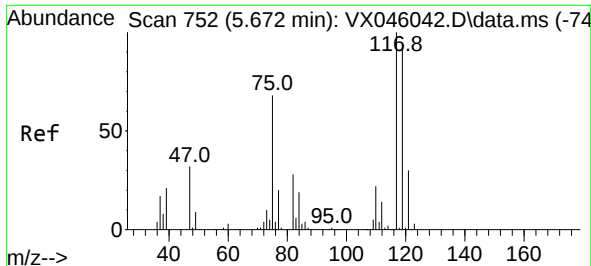


#36
1,1-Dichloropropene
Concen: 4.422 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.158 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48



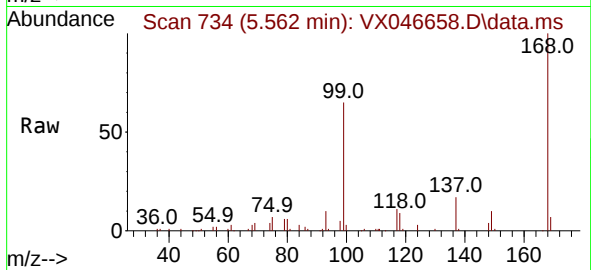
Tgt Ion: 75 Resp: 4863
Ion Ratio Lower Upper
75 100
110 8.5 16.3 48.9#
77 0.0 24.3 36.5#



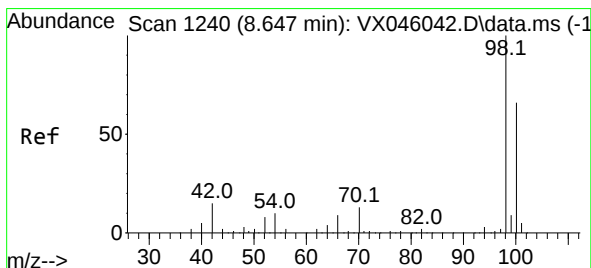
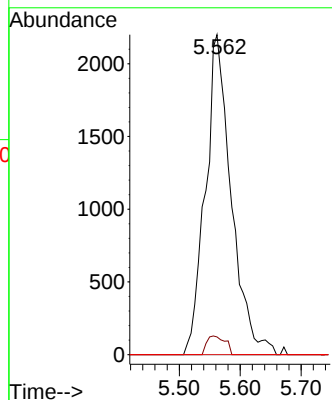
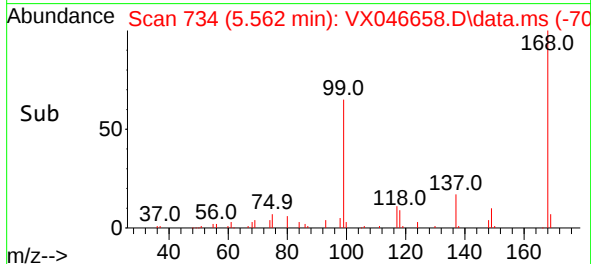


#38
Carbon Tetrachloride
Concen: 5.285 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

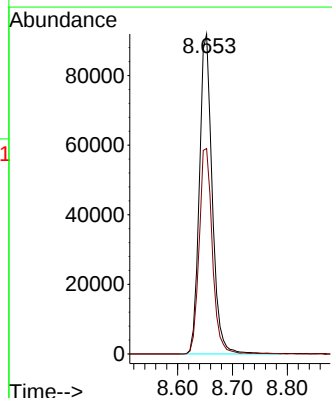
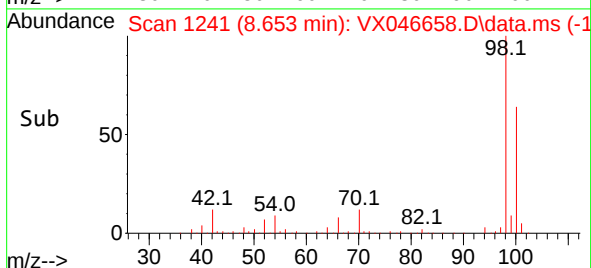
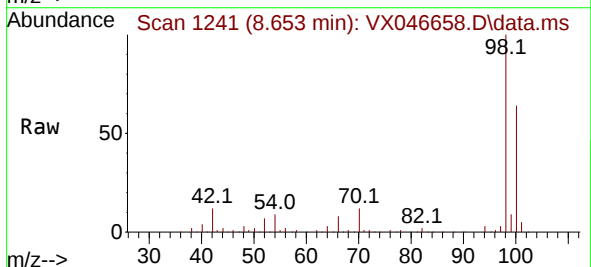


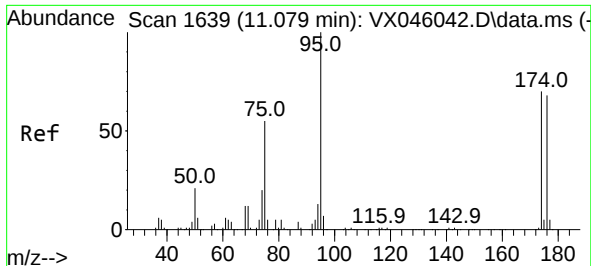
Tgt Ion:117 Resp: 6510
Ion Ratio Lower Upper
117 100
119 5.5 75.2 112.8#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 58.930 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion: 98 Resp: 149585
Ion Ratio Lower Upper
98 100
100 66.3 53.5 80.3

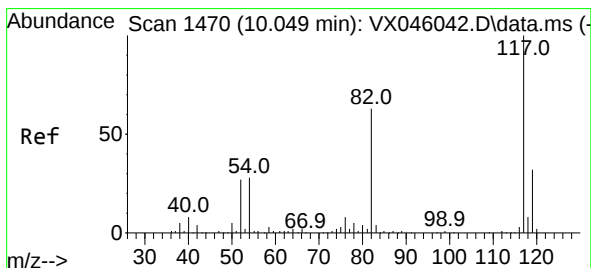
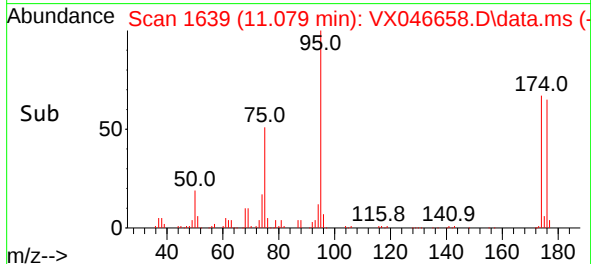
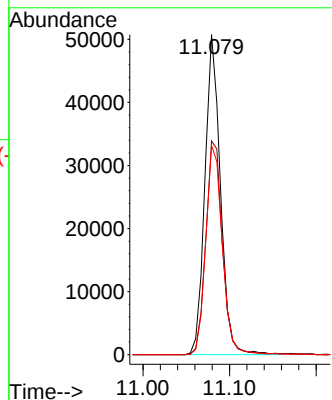
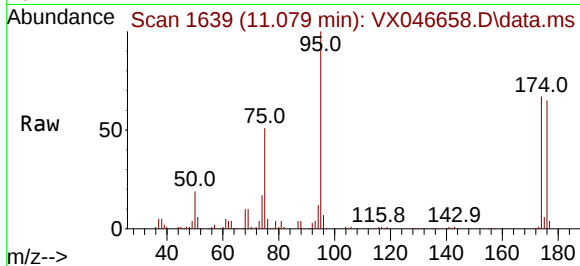




#62
4-Bromofluorobenzene
Concen: 60.140 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

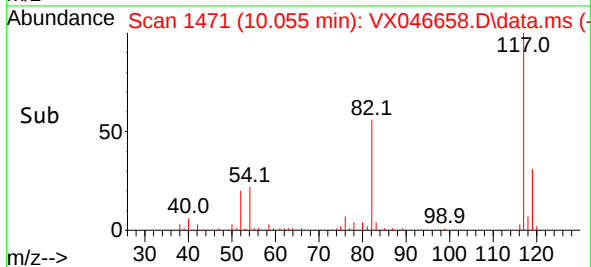
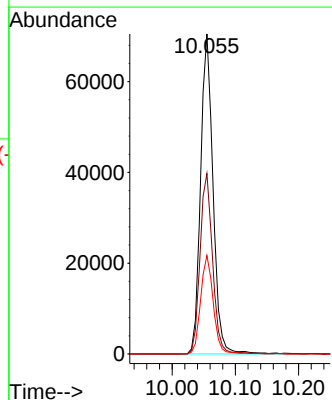
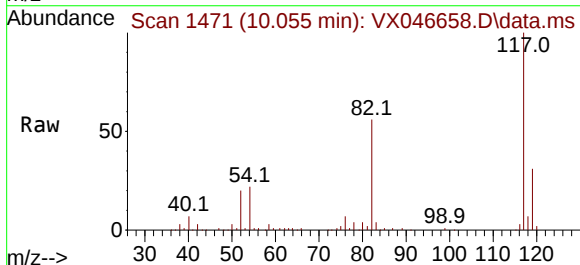
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

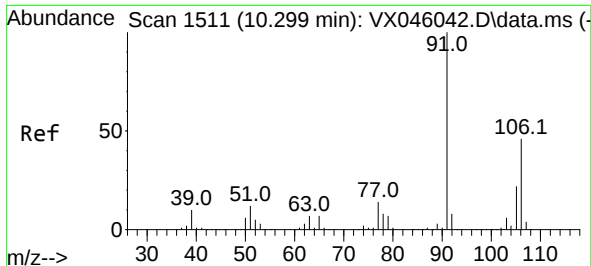
Tgt Ion: 95 Resp: 63161
Ion Ratio Lower Upper
95 100
174 71.7 0.0 135.8
176 70.1 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion: 117 Resp: 96611
Ion Ratio Lower Upper
117 100
82 56.4 50.6 76.0
119 30.8 25.8 38.6

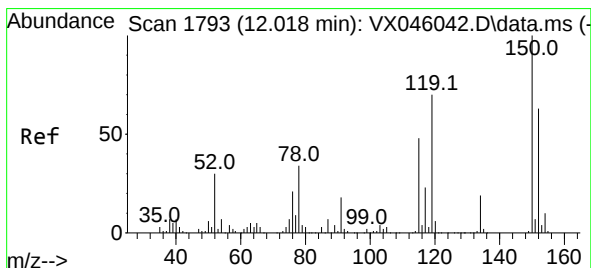
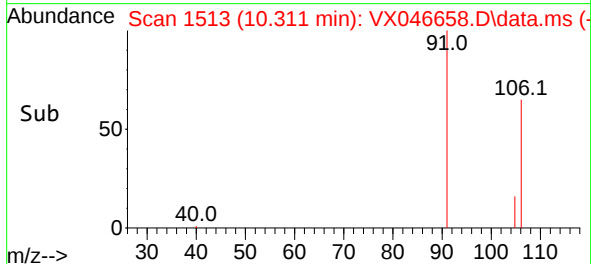
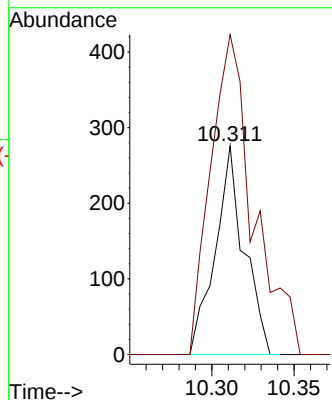
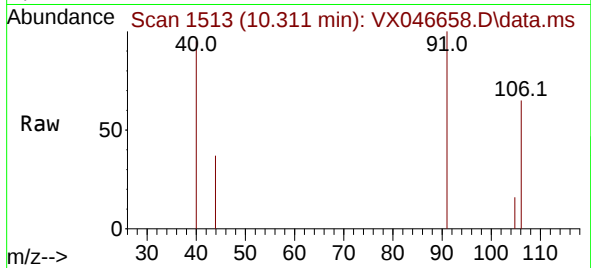




#68
m/p-Xylenes
Concen: 0.234 ug/l
RT: 10.311 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

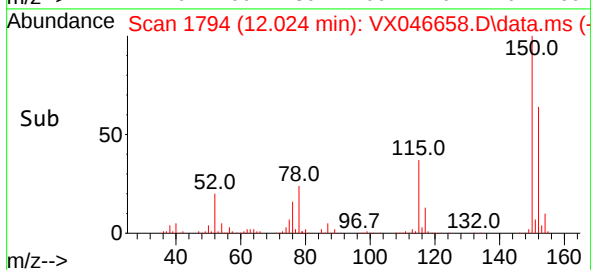
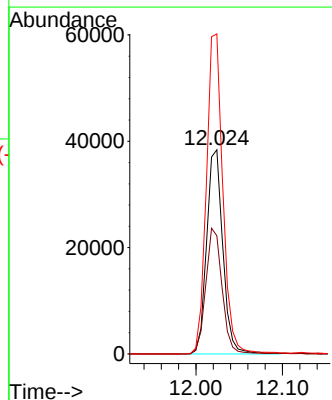
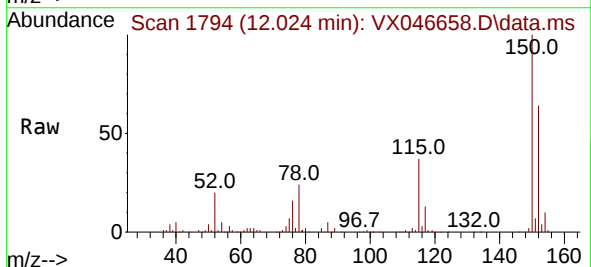
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

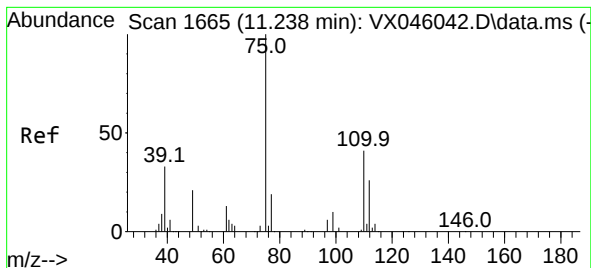
Tgt Ion:106 Resp: 337
Ion Ratio Lower Upper
106 100
91 227.0 171.2 256.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion:152 Resp: 50000
Ion Ratio Lower Upper
152 100
115 61.8 46.9 140.7
150 159.2 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 30.760 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX046658.D

Acq: 12 Jun 2025 12:48

Instrument :

MSVOA_X

ClientSampleId :

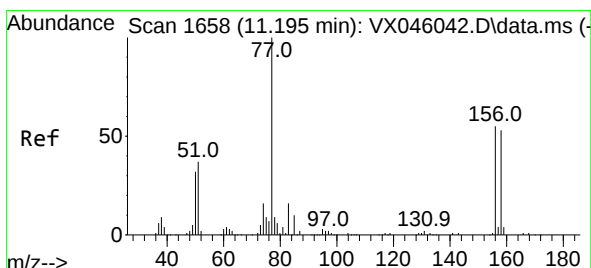
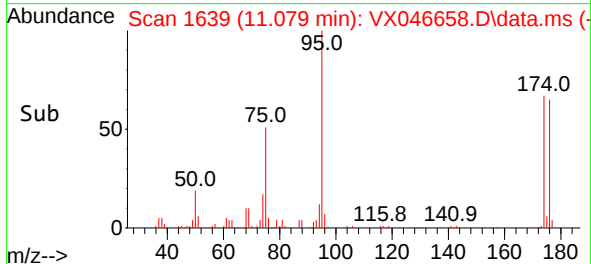
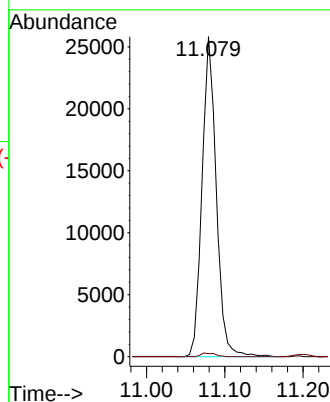
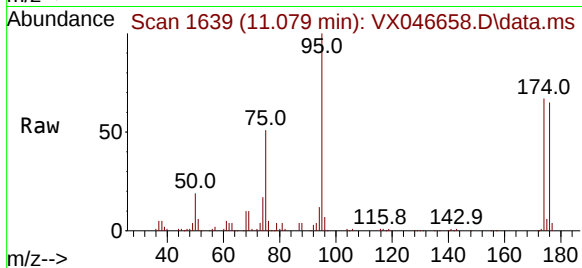
VX0612MBL01

Tgt Ion: 75 Resp: 32577

Ion Ratio Lower Upper

75 100

77 1.2 20.5 61.5#



#77

Bromobenzene

Concen: 0.201 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX046658.D

Acq: 12 Jun 2025 12:48

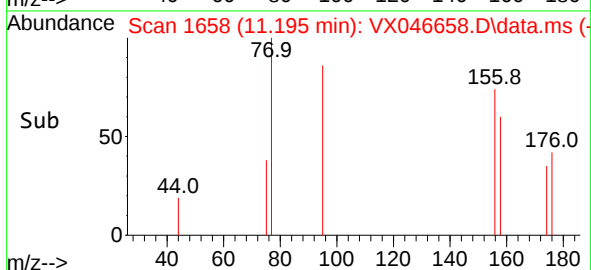
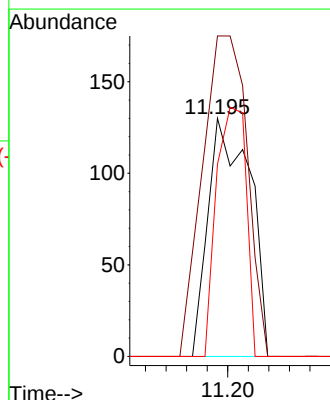
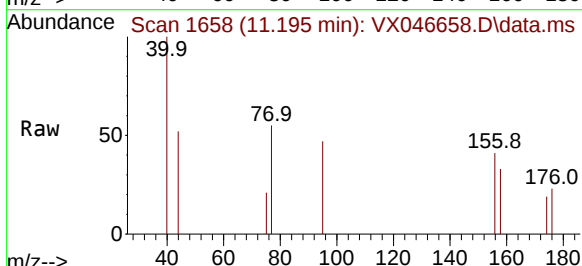
Tgt Ion:156 Resp: 183

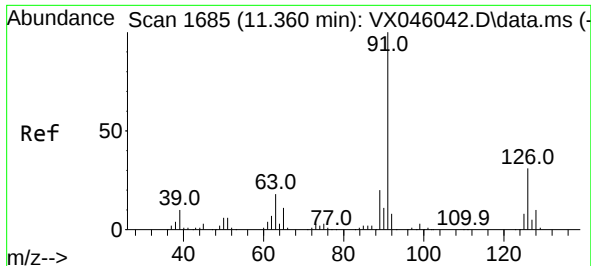
Ion Ratio Lower Upper

156 100

77 144.8 92.8 278.3

158 74.9 48.8 146.3





#79

2-Chlorotoluene

Concen: 0.277 ug/l

RT: 11.463 min Scan# 1

Delta R.T. 0.097 min

Lab File: VX046658.D

Acq: 12 Jun 2025 12:48

Instrument :

MSVOA_X

ClientSampleId :

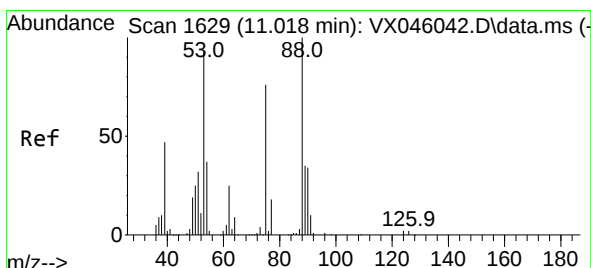
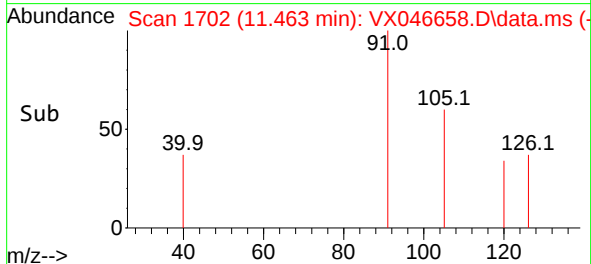
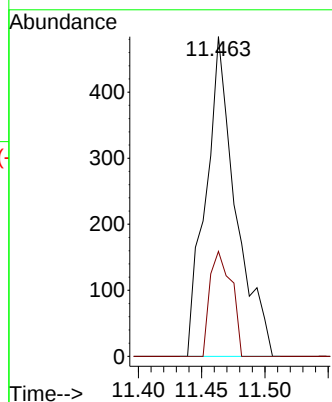
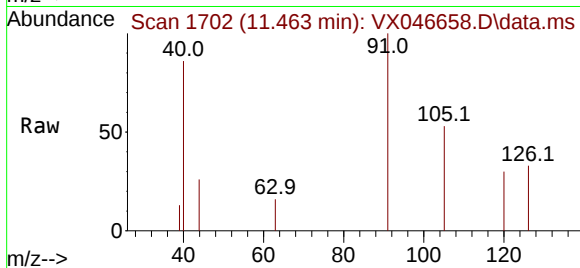
VX0612MBL01

Tgt Ion: 91 Resp: 795

Ion Ratio Lower Upper

91 100

126 23.8 15.6 46.7



#81

trans-1,4-Dichloro-2-butene

Concen: 88.731 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX046658.D

Acq: 12 Jun 2025 12:48

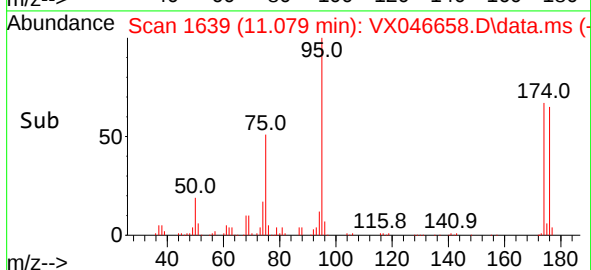
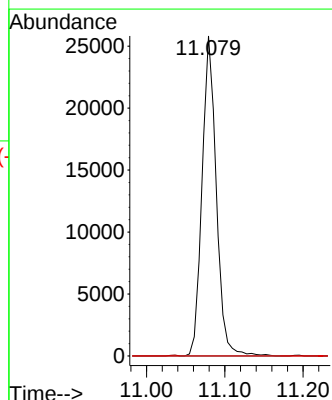
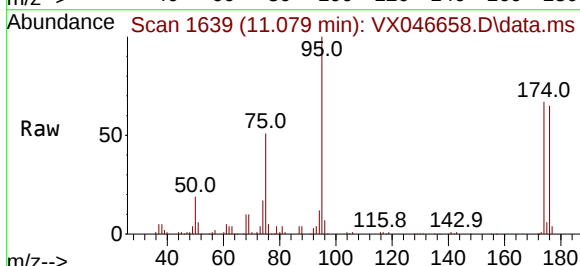
Tgt Ion: 75 Resp: 32577

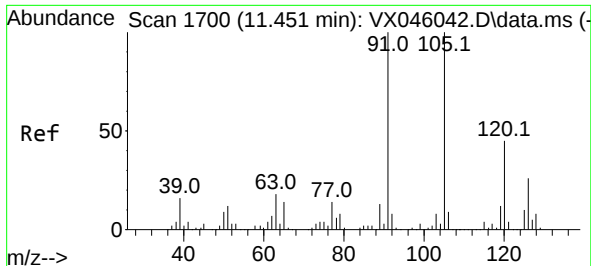
Ion Ratio Lower Upper

75 100

53 0.0 100.5 150.7#

89 0.0 37.0 55.6#

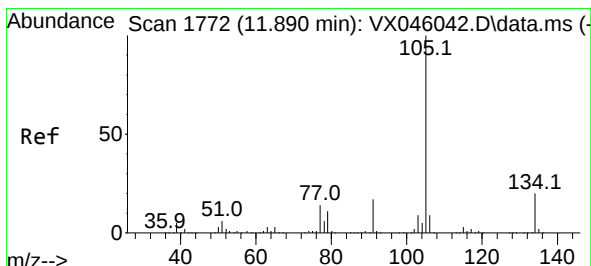
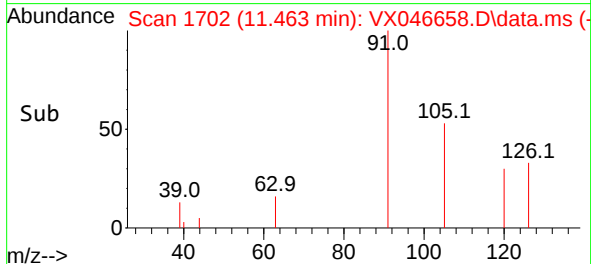
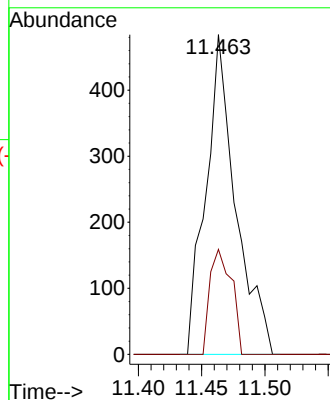
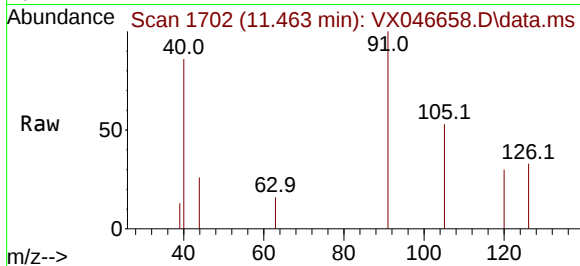




#82
4-Chlorotoluene
Concen: 0.234 ug/l
RT: 11.463 min Scan# 1702
Delta R.T. 0.012 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

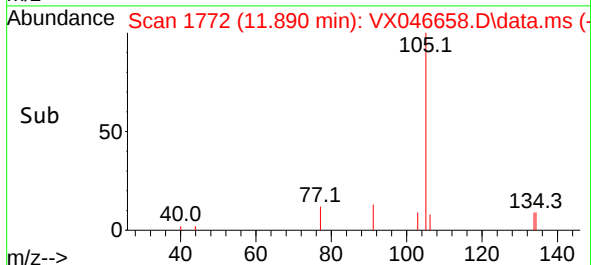
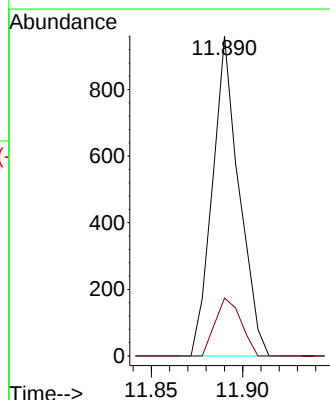
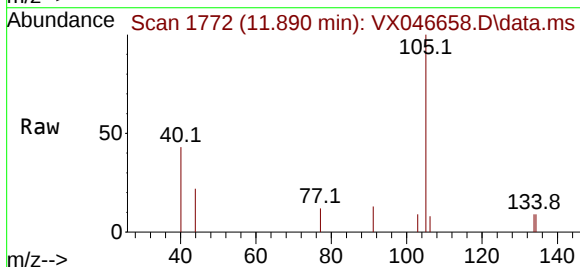
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

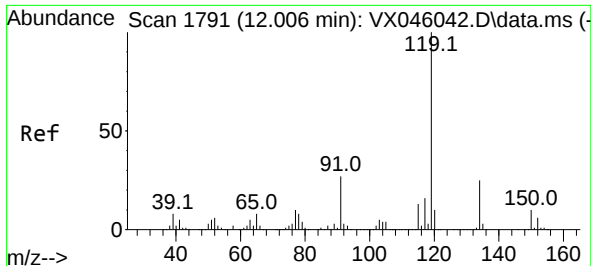
Tgt Ion: 91 Resp: 795
Ion Ratio Lower Upper
91 100
126 23.8 13.3 39.8



#85
sec-Butylbenzene
Concen: 0.228 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion: 105 Resp: 975
Ion Ratio Lower Upper
105 100
134 17.5 9.7 29.1

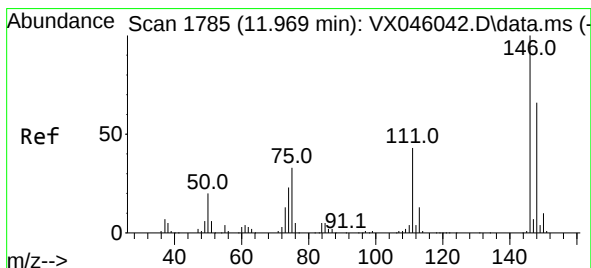
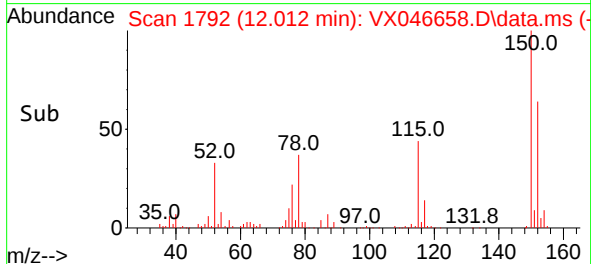
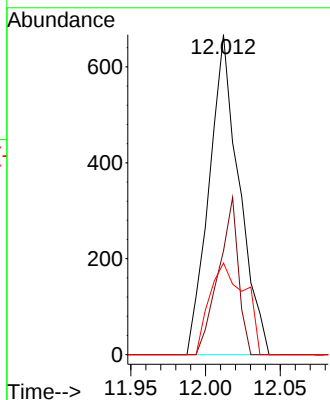
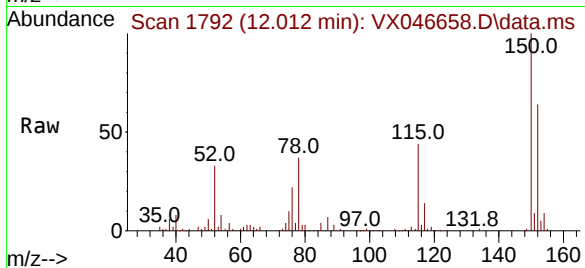




#86
p-Isopropyltoluene
Concen: 0.260 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

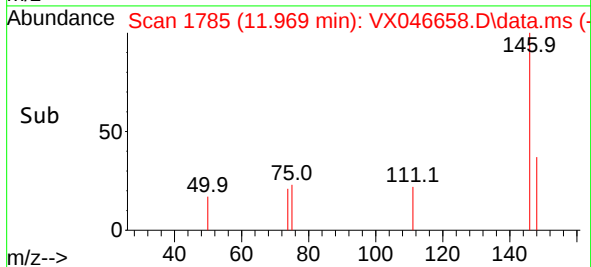
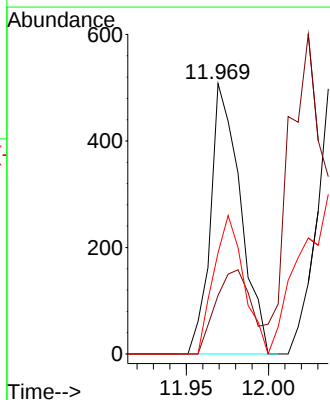
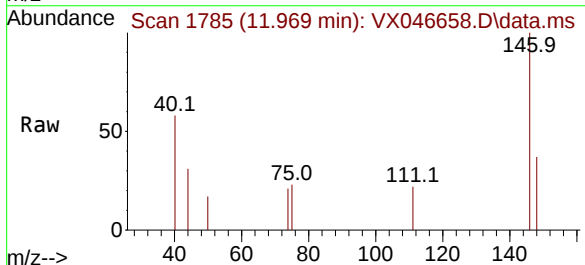
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

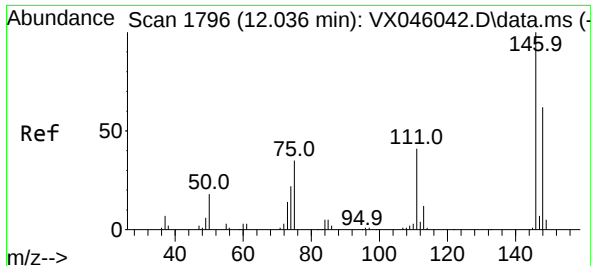
Tgt Ion:	119	Resp:	930
Ion	Ratio	Lower	Upper
119	100		
134	32.5	12.5	37.5
91	33.7	13.8	41.4



#87
1,3-Dichlorobenzene
Concen: 0.362 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion:	146	Resp:	642
Ion	Ratio	Lower	Upper
146	100		
111	36.4	22.1	66.3
148	51.4	32.1	96.5





#88

1,4-Dichlorobenzene

Concen: 0.350 ug/l

RT: 11.969 min Scan# 1

Delta R.T. -0.073 min

Lab File: VX046658.D

Acq: 12 Jun 2025 12:48

Instrument :

MSVOA_X

ClientSampleId :

VX0612MBL01

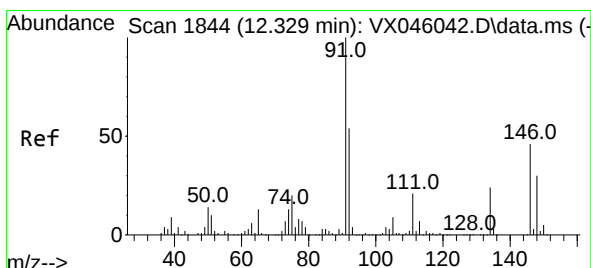
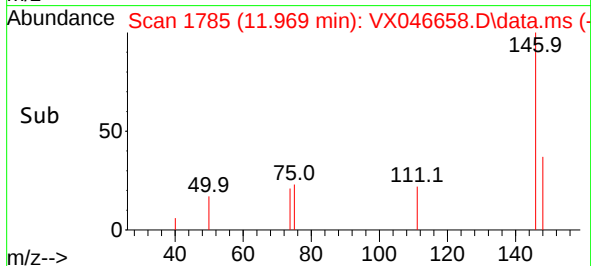
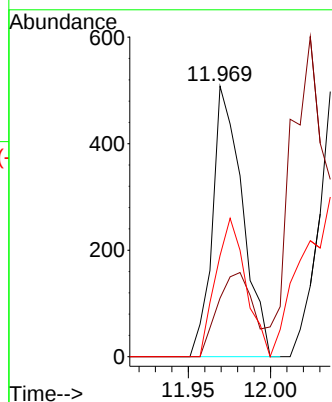
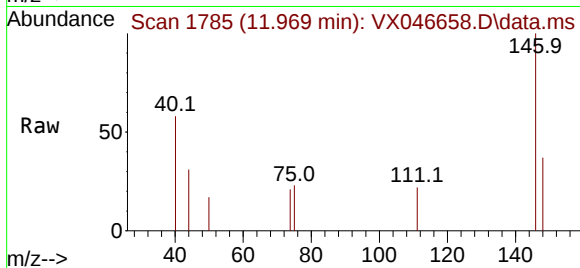
Tgt Ion:146 Resp: 642

Ion Ratio Lower Upper

146 100

111 36.4 21.3 63.9

148 51.4 31.9 95.5



#89

n-Butylbenzene

Concen: 0.331 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.012 min

Lab File: VX046658.D

Acq: 12 Jun 2025 12:48

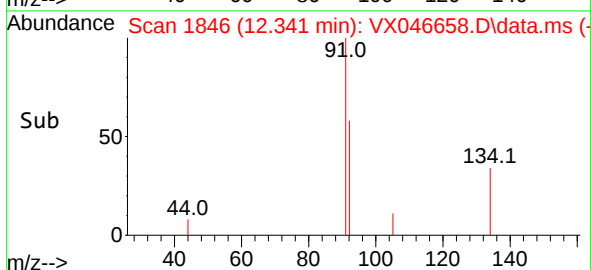
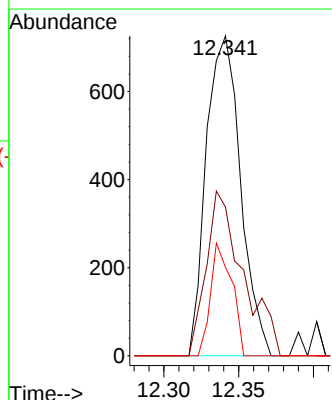
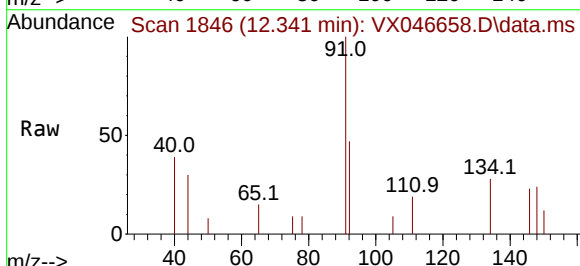
Tgt Ion: 91 Resp: 1160

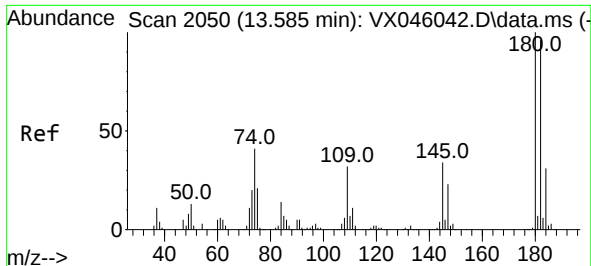
Ion Ratio Lower Upper

91 100

92 55.1 26.9 80.7

134 21.7 11.8 35.3

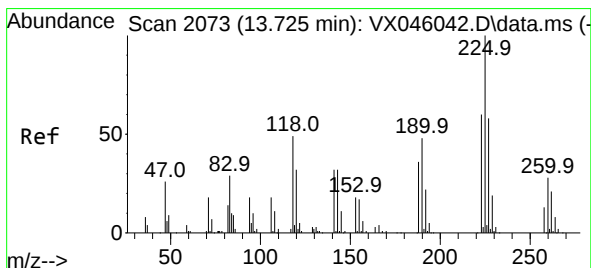
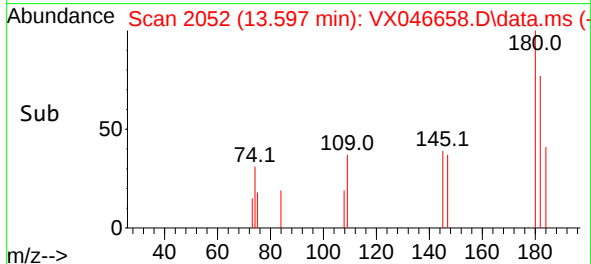
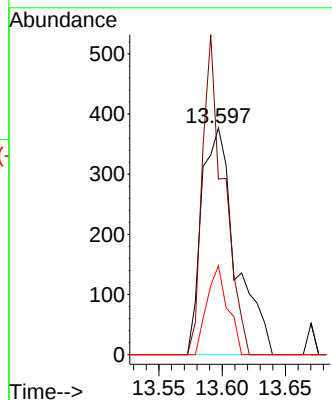
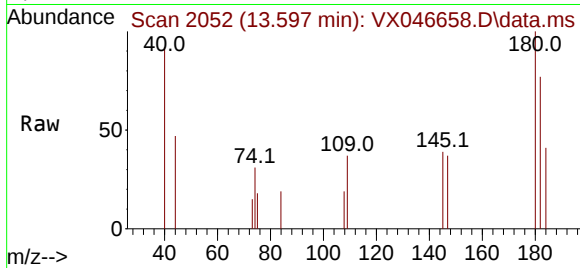




#93
1,2,4-Trichlorobenzene
Concen: 0.604 ug/l
RT: 13.597 min Scan# 2050
Delta R.T. 0.012 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

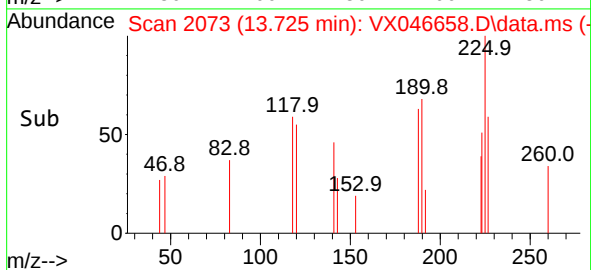
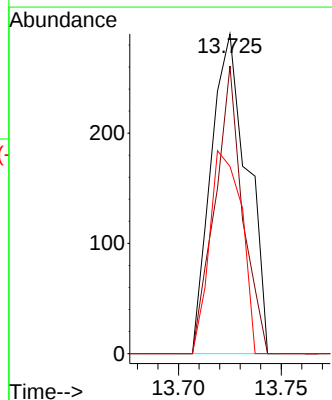
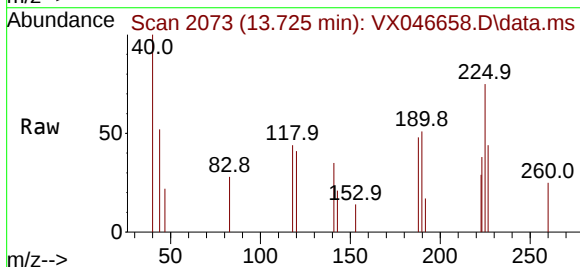
Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

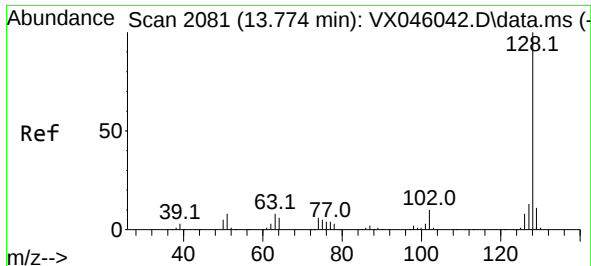
Tgt Ion:180 Resp: 704
Ion Ratio Lower Upper
180 100
182 88.9 47.9 143.8
145 24.1 17.1 51.2



#94
Hexachlorobutadiene
Concen: 0.657 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion:225 Resp: 356
Ion Ratio Lower Upper
225 100
223 68.8 30.8 92.4
227 56.2 30.9 92.7

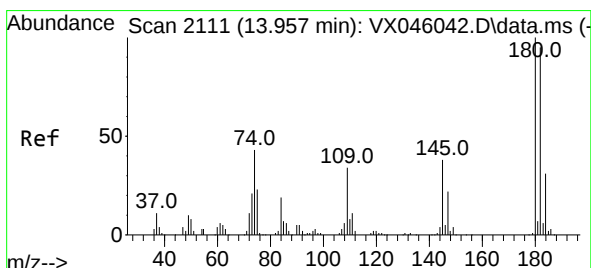
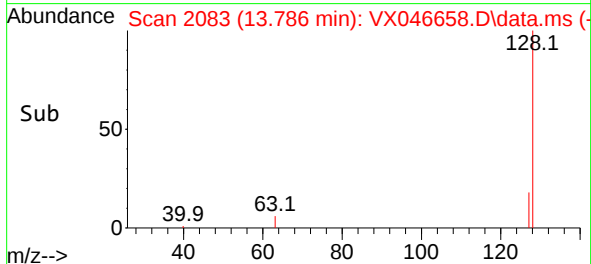
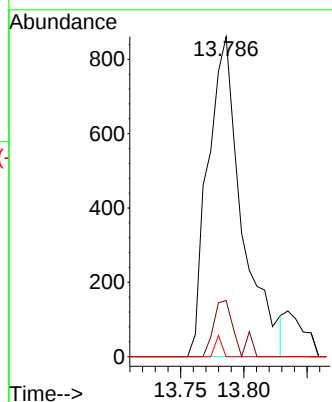
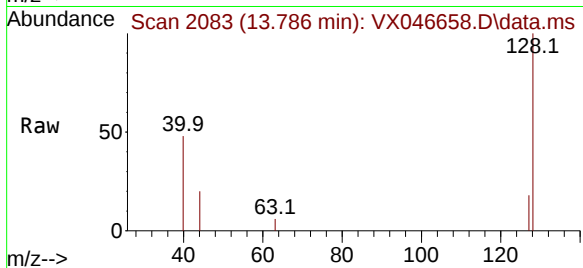




#95
Naphthalene
Concen: 0.436 ug/l
RT: 13.786 min Scan# 2081
Delta R.T. 0.012 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Instrument :
MSVOA_X
ClientSampleId :
VX0612MBL01

Tgt Ion:128 Resp: 1612
Ion Ratio Lower Upper
128 100
127 11.0 10.4 15.6
129 1.3 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.527 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046658.D
Acq: 12 Jun 2025 12:48

Tgt Ion:180 Resp: 617
Ion Ratio Lower Upper
180 100
182 112.5 47.8 143.3
145 26.7 18.1 54.3

