

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
 Data File : VX046785.D
 Acq On : 20 Jun 2025 16:17
 Operator : JC/MD
 Sample : VX0620MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620MBL01

Quant Time: Jun 21 00:09:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 18 03:09:16 2025
 Response via : Initial Calibration

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

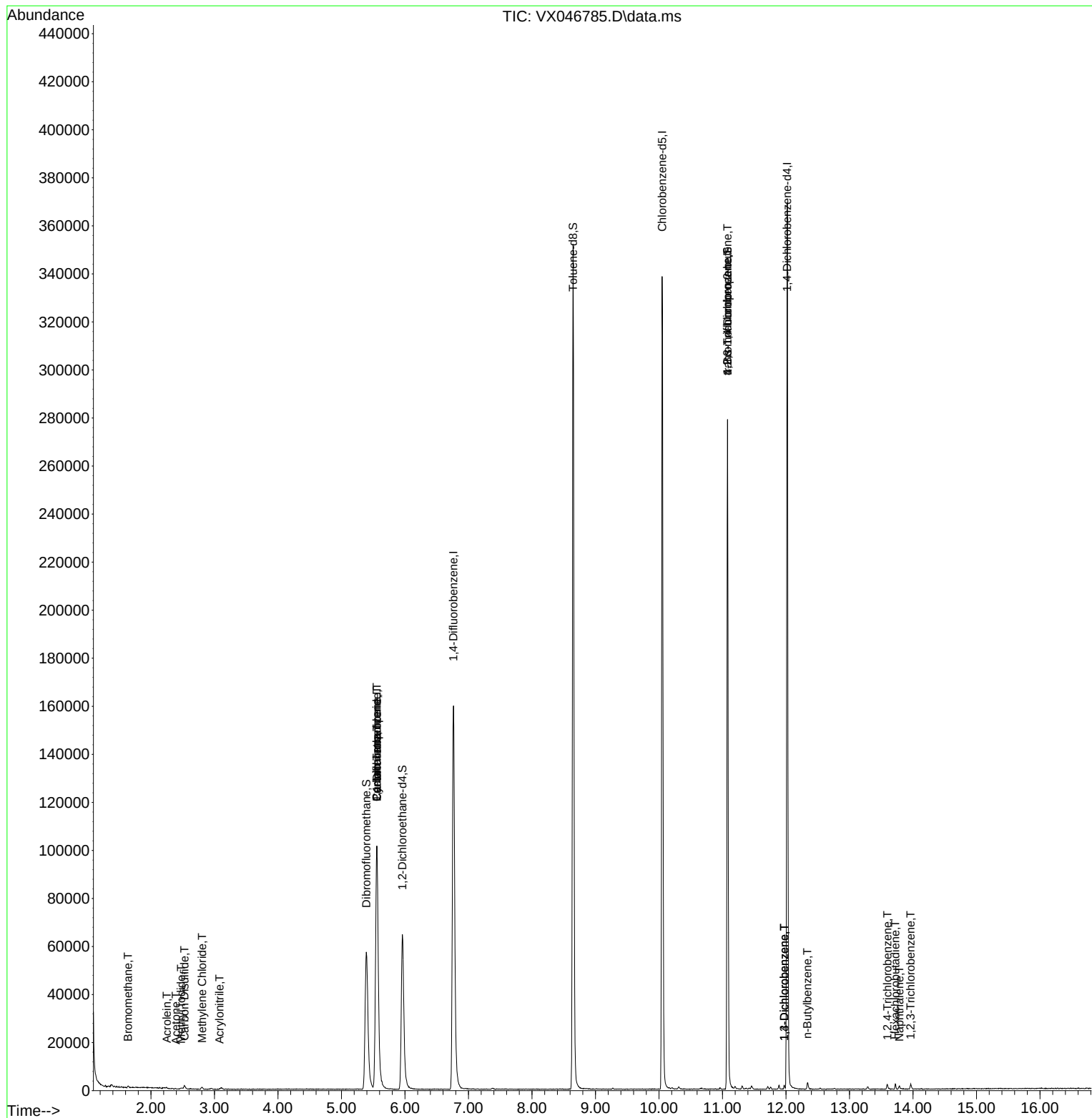
Internal Standards						
1) Pentafluorobenzene	5.556	168	104382	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	178305	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	158677	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	67625	46.839	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.680%		
35) Dibromofluoromethane	5.391	113	57155	48.448	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.900%		
50) Toluene-d8	8.647	98	213978	50.485	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.960%		
62) 4-Bromofluorobenzene	11.079	95	76779	48.596	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.200%		
Target Compounds					Qvalue	
5) Bromomethane	1.636	94	297	0.412	ug/l	95
10) Methyl Iodide	2.477	142	924	4.898	ug/l #	74
13) Acrolein	2.252	56	100	0.530	ug/l #	15
15) Acrylonitrile	3.081	53	289	0.496	ug/l #	44
16) Acetone	2.392	43	255	0.530	ug/l #	44
17) Carbon Disulfide	2.526	76	1796	0.516	ug/l	95
20) Methylene Chloride	2.807	84	374	0.279	ug/l #	68
31) Cyclohexane	5.556	56	2413	1.116	ug/l #	17
36) 1,1-Dichloropropene	5.556	75	8264	4.853	ug/l #	49
38) Carbon Tetrachloride	5.556	117	10628	5.751	ug/l #	18
76) 1,2,3-Trichloropropane	11.079	75	39124	28.727	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.079	75	39124	81.199	ug/l #	7
87) 1,3-Dichlorobenzene	11.970	146	690	0.269	ug/l	97
88) 1,4-Dichlorobenzene	11.970	146	690	0.261	ug/l	97
89) n-Butylbenzene	12.335	91	1405	0.298	ug/l	92
93) 1,2,4-Trichlorobenzene	13.597	180	874	0.512	ug/l	89
94) Hexachlorobutadiene	13.719	225	426	0.593	ug/l	96
95) Naphthalene	13.786	128	1803	0.371	ug/l #	80
96) 1,2,3-Trichlorobenzene	13.963	180	808	0.495	ug/l	87

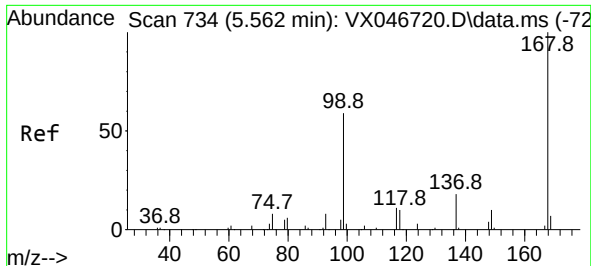
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
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Quant Time: Jun 21 00:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061725W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 18 03:09:16 2025
Response via : Initial Calibration

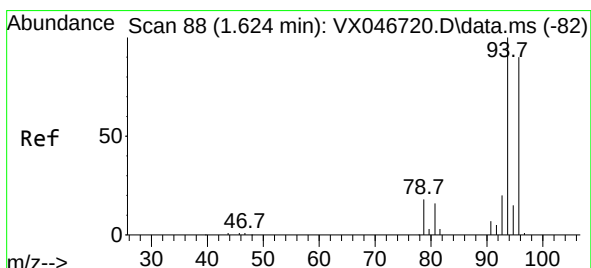
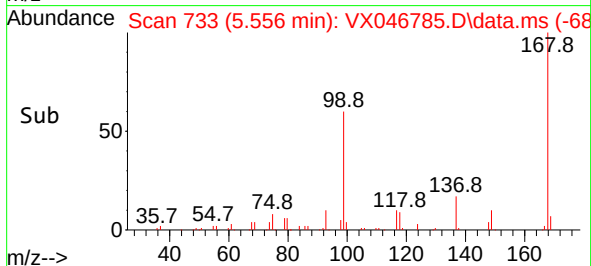
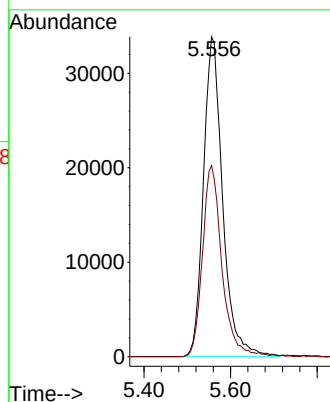
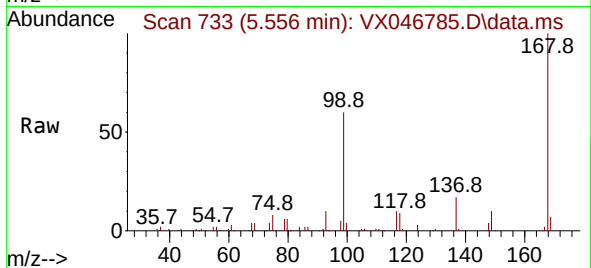




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

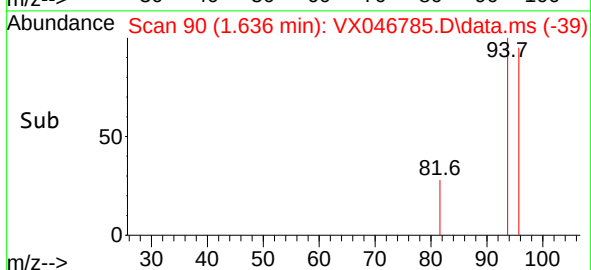
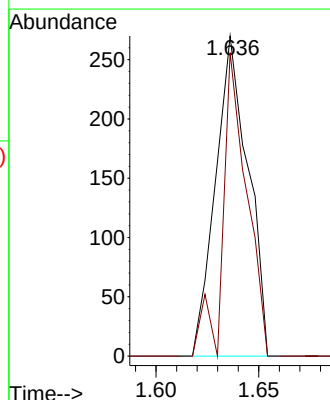
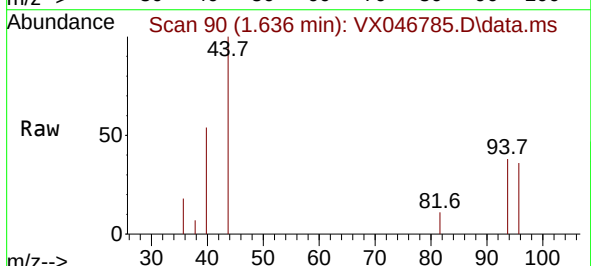
Instrument :
MSVOA_X
ClientSampleId :
VX0620MBL01

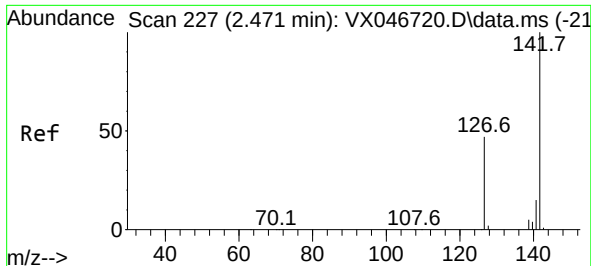
Tgt Ion:168 Resp: 104382
Ion Ratio Lower Upper
168 100
99 59.8 48.5 72.7



#5
Bromomethane
Concen: 0.412 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.012 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

Tgt Ion: 94 Resp: 297
Ion Ratio Lower Upper
94 100
96 94.8 72.3 108.5





#10

Methyl Iodide

Concen: 4.898 ug/l

RT: 2.477 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

VX0620MBL01

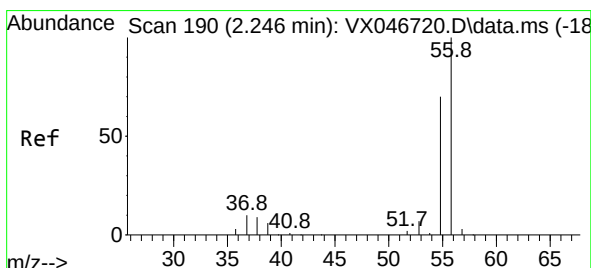
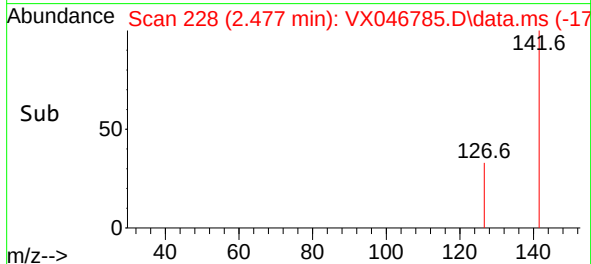
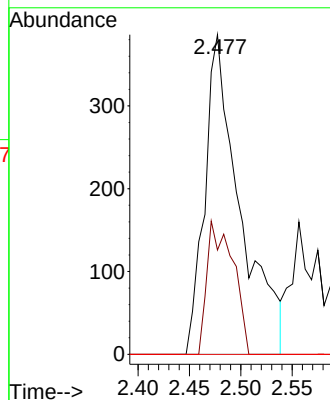
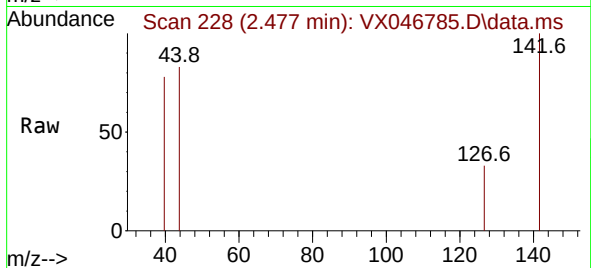
Tgt Ion:142 Resp: 924

Ion Ratio Lower Upper

142 100

127 30.8 37.0 55.6#

141 0.0 11.5 17.3#



#13

Acrolein

Concen: 0.530 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.006 min

Lab File: VX046785.D

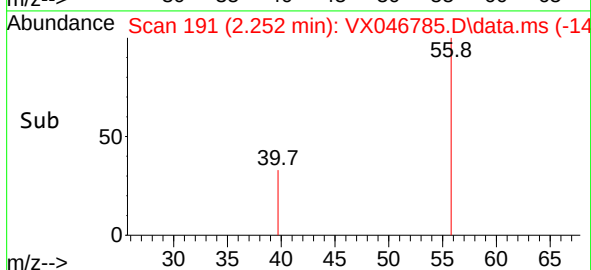
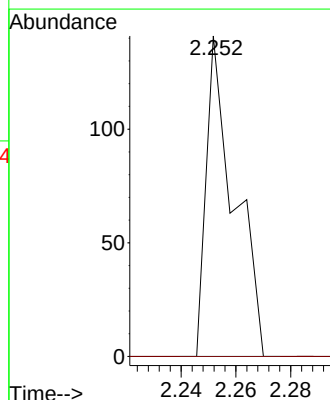
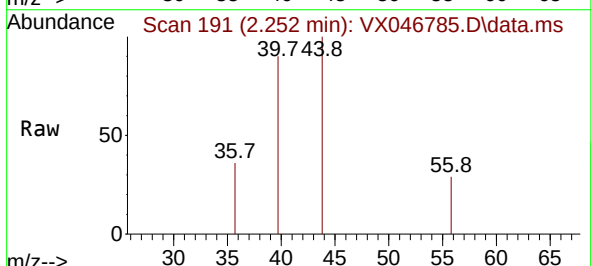
Acq: 20 Jun 2025 16:17

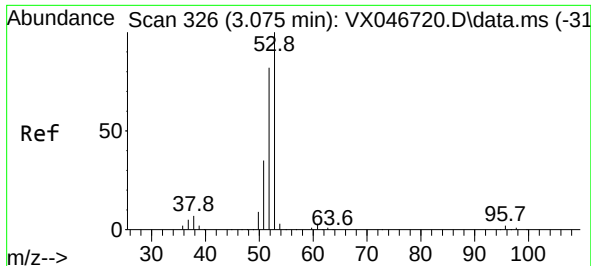
Tgt Ion: 56 Resp: 100

Ion Ratio Lower Upper

56 100

55 0.0 55.2 82.8#





#15

Acrylonitrile

Concen: 0.496 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

VX0620MBL01

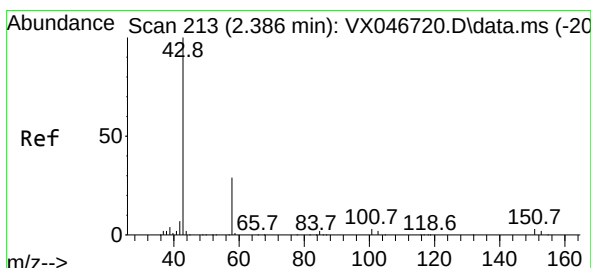
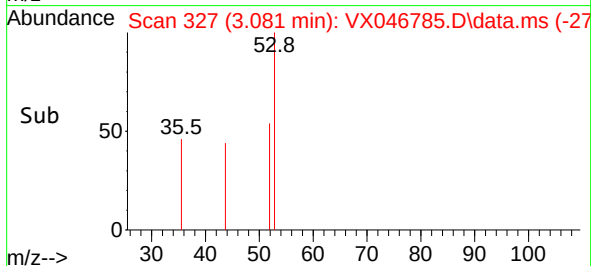
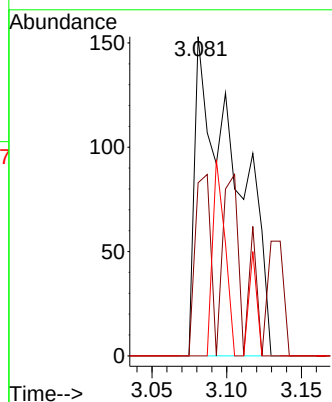
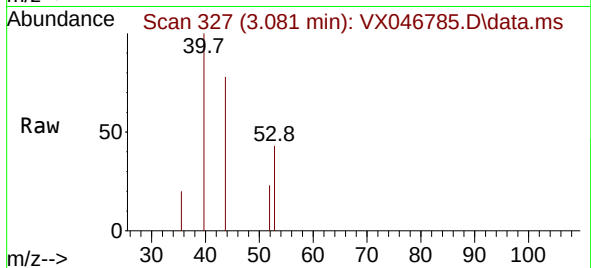
Tgt Ion: 53 Resp: 289

Ion Ratio Lower Upper

53 100

52 21.5 65.1 97.7#

51 18.7 28.9 43.3#



#16

Acetone

Concen: 0.530 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX046785.D

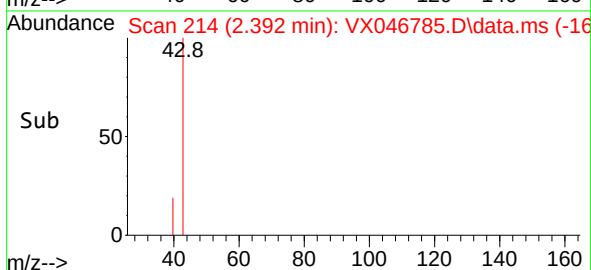
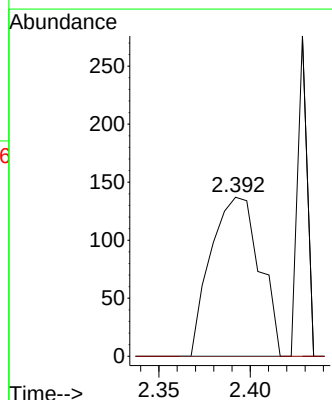
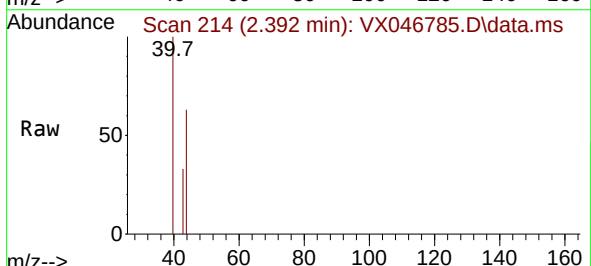
Acq: 20 Jun 2025 16:17

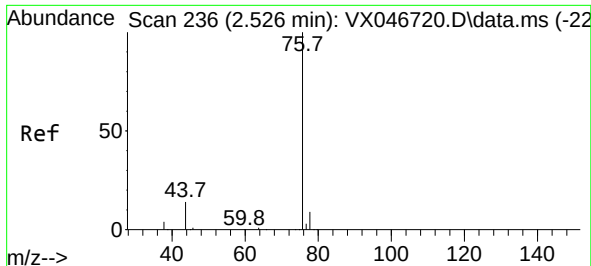
Tgt Ion: 43 Resp: 255

Ion Ratio Lower Upper

43 100

58 0.0 24.5 36.7#

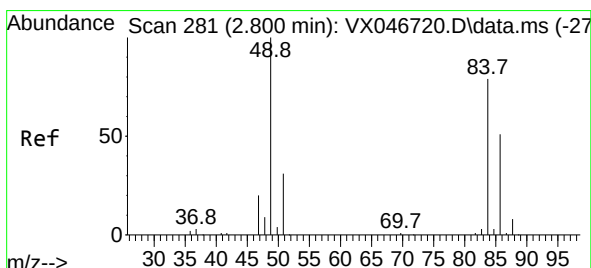
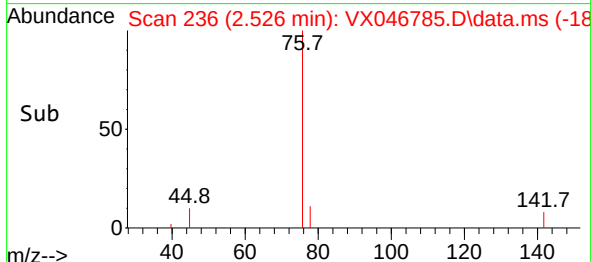
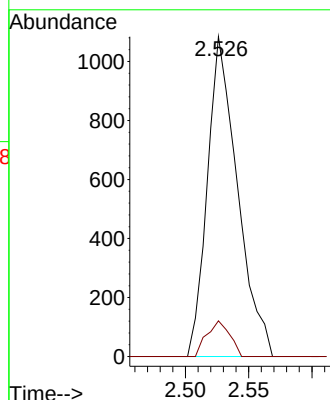
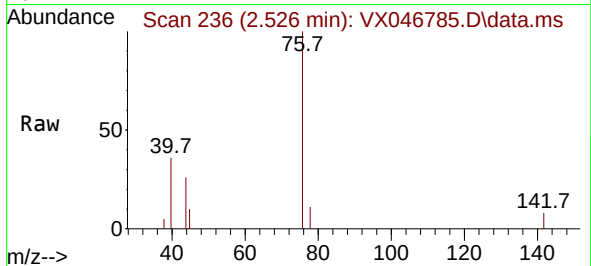




#17
Carbon Disulfide
Concen: 0.516 ug/l
RT: 2.526 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

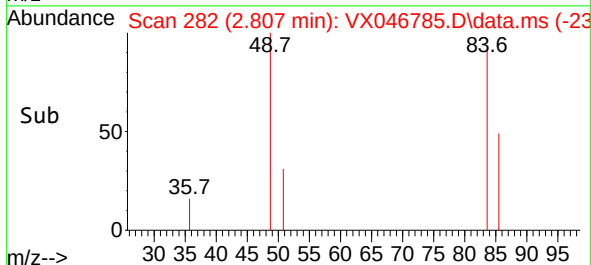
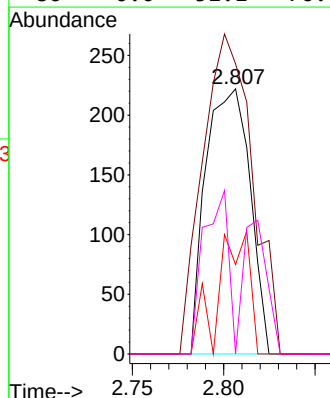
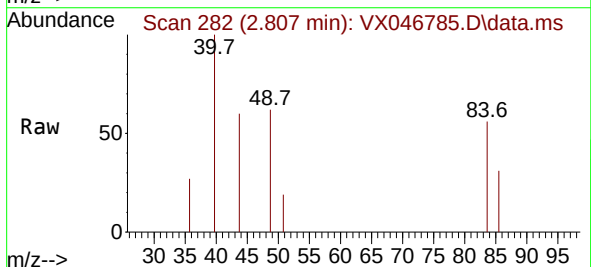
Instrument :
MSVOA_X
ClientSampleId :
VX0620MBL01

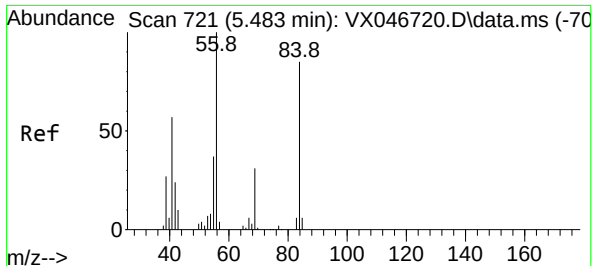
Tgt Ion: 76 Resp: 1796
Ion Ratio Lower Upper
76 100
78 11.2 7.5 11.3



#20
Methylene Chloride
Concen: 0.279 ug/l
RT: 2.807 min Scan# 282
Delta R.T. 0.006 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

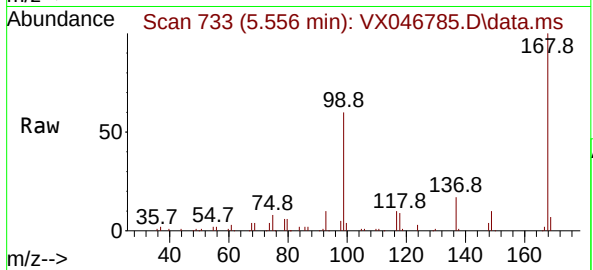
Tgt Ion: 84 Resp: 374
Ion Ratio Lower Upper
84 100
49 109.5 101.3 151.9
51 33.8 31.0 46.6
86 0.0 51.1 76.7#



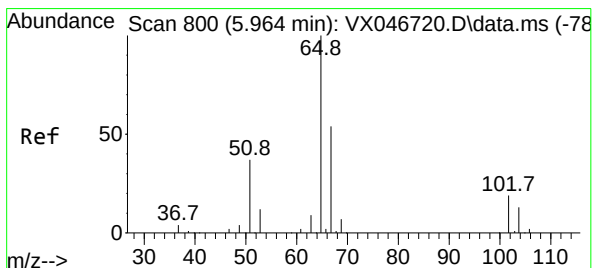
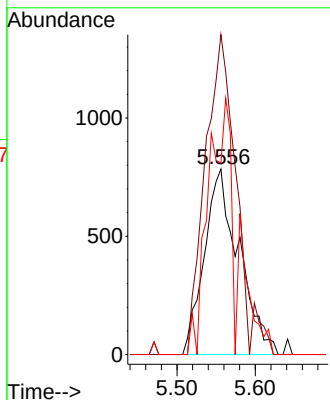
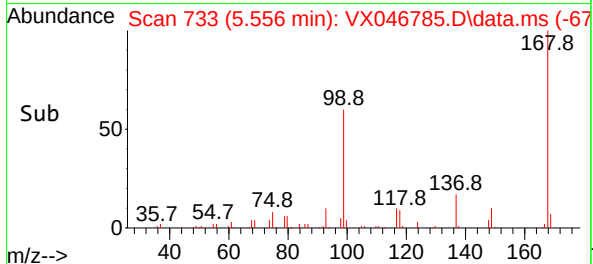


#31
Cyclohexane
Concen: 1.116 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.073 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
VX0620MBL01

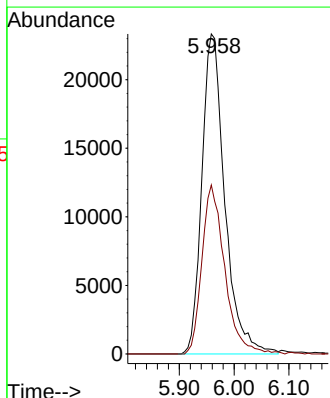
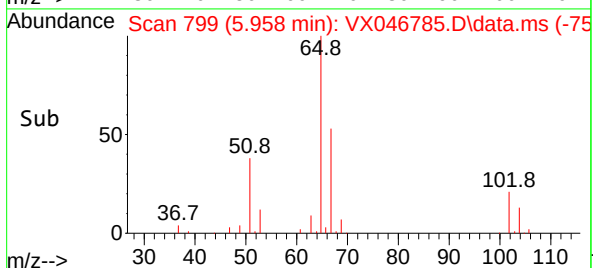
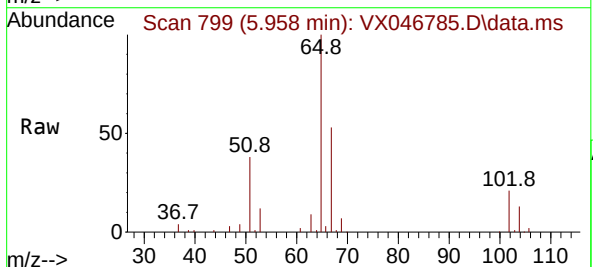


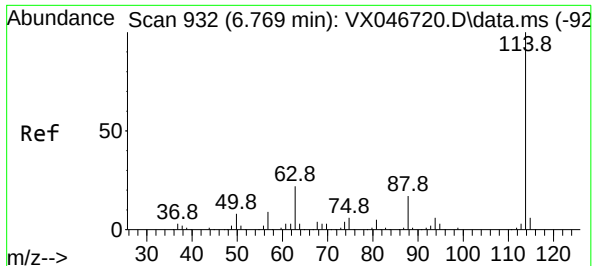
Tgt Ion: 56 Resp: 2413
Ion Ratio Lower Upper
56 100
69 172.4 24.8 37.2#
84 103.3 68.2 102.2#



#33
1,2-Dichloroethane-d4
Concen: 46.839 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

Tgt Ion: 65 Resp: 67625
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.4

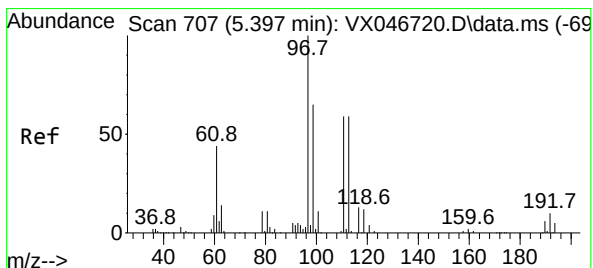
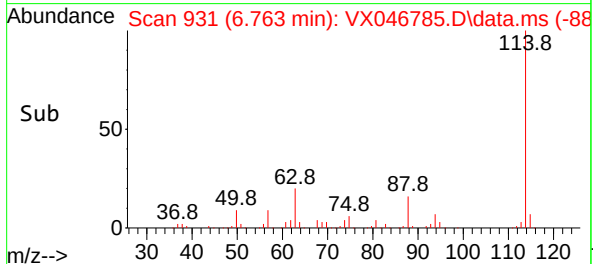
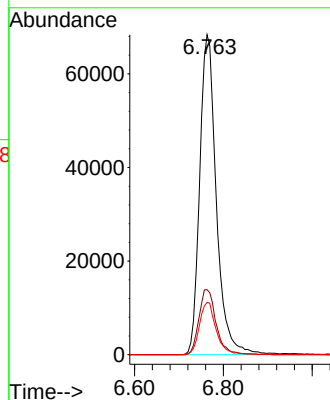
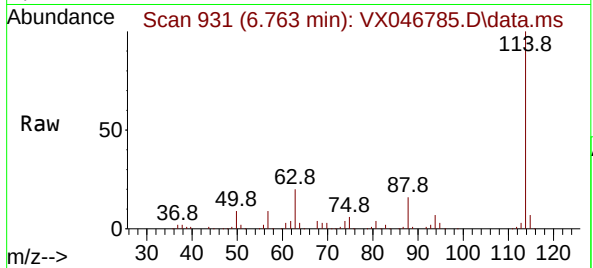




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

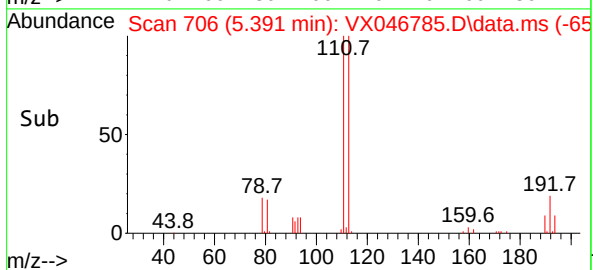
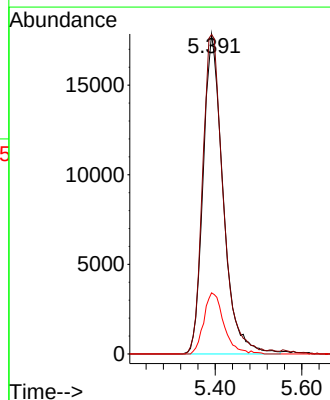
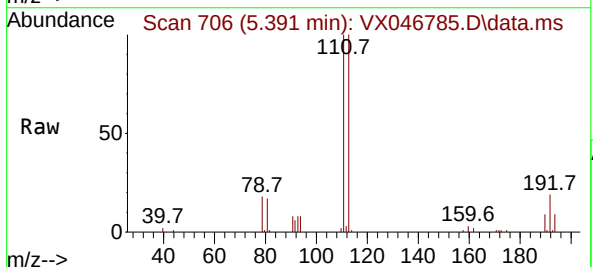
Instrument :
MSVOA_X
ClientSampleId :
VX0620MBL01

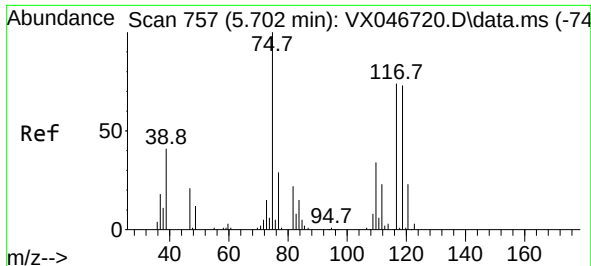
Tgt Ion:114 Resp: 178305
Ion Ratio Lower Upper
114 100
63 20.3 0.0 44.2
88 16.4 0.0 33.2



#35
Dibromofluoromethane
Concen: 48.448 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

Tgt Ion:113 Resp: 57155
Ion Ratio Lower Upper
113 100
111 102.5 82.0 123.0
192 19.3 15.3 22.9





#36

1,1-Dichloropropene

Concen: 4.853 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.146 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

VX0620MBL01

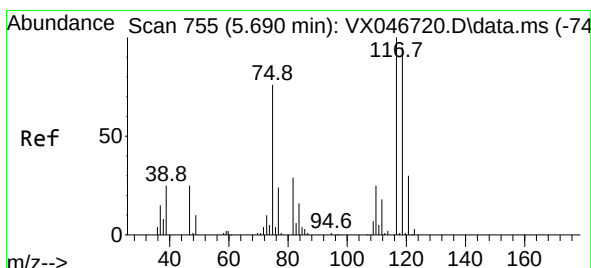
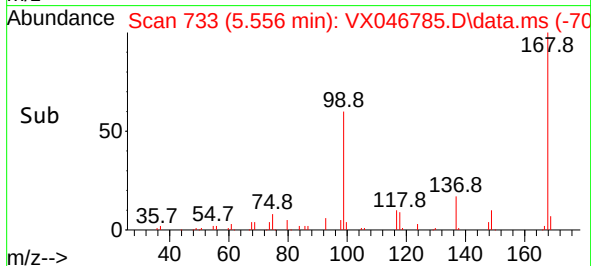
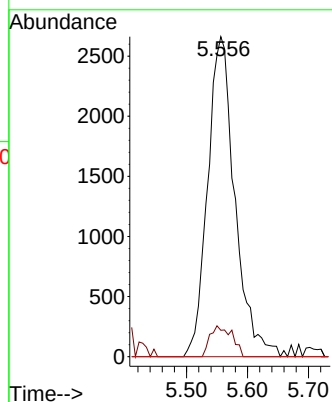
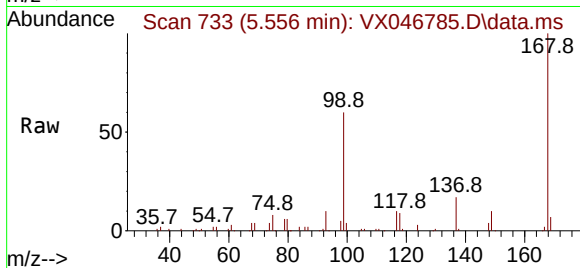
Tgt Ion: 75 Resp: 8264

Ion Ratio Lower Upper

75 100

110 7.8 17.2 51.5#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.751 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.134 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

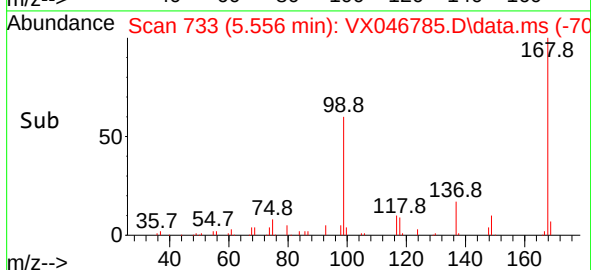
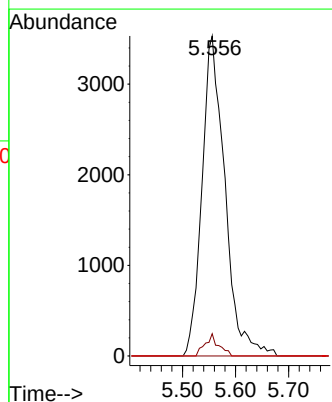
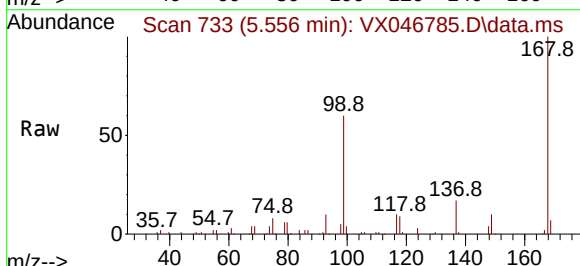
Tgt Ion: 117 Resp: 10628

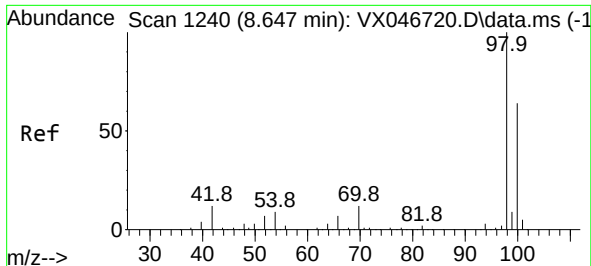
Ion Ratio Lower Upper

117 100

119 6.9 75.2 112.8#

121 0.0 24.1 36.1#

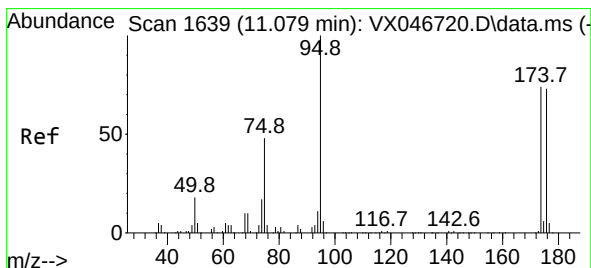
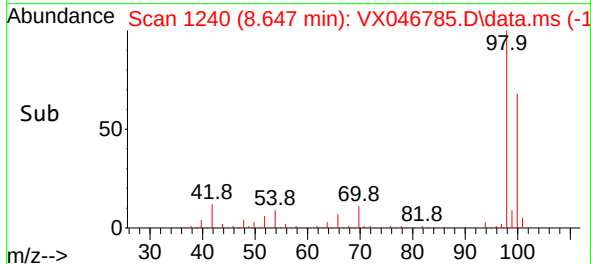
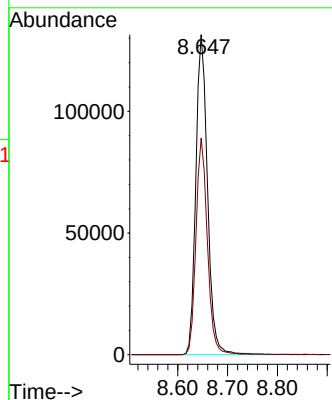
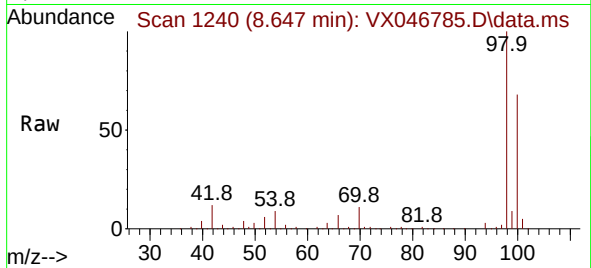




#50
Toluene-d8
Concen: 50.485 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

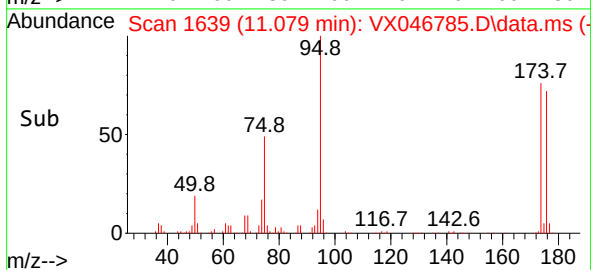
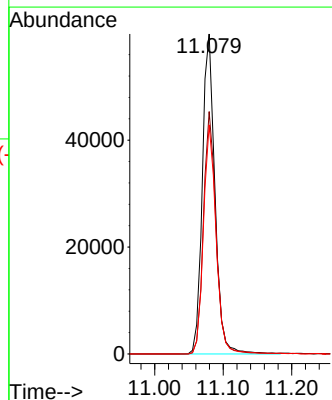
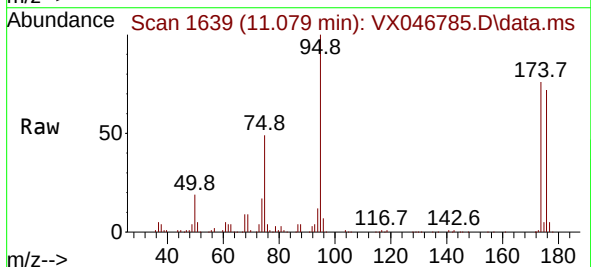
Instrument :
MSVOA_X
ClientSampleId :
VX0620MBL01

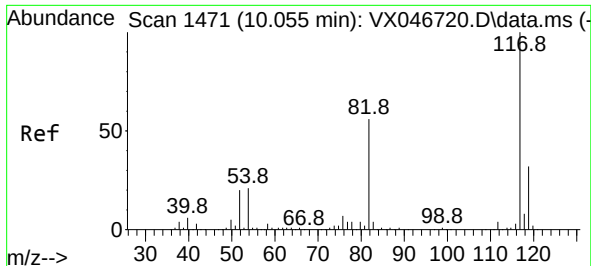
Tgt Ion: 98 Resp: 213978
Ion Ratio Lower Upper
98 100
100 66.2 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 48.596 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

Tgt Ion: 95 Resp: 76779
Ion Ratio Lower Upper
95 100
174 75.5 0.0 150.4
176 72.0 0.0 145.0

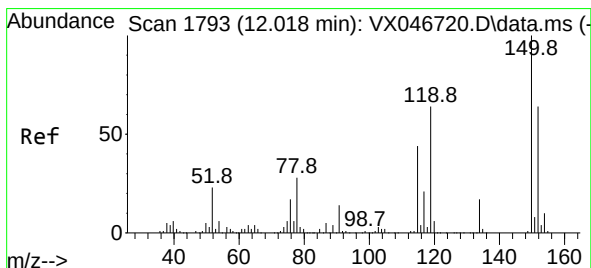
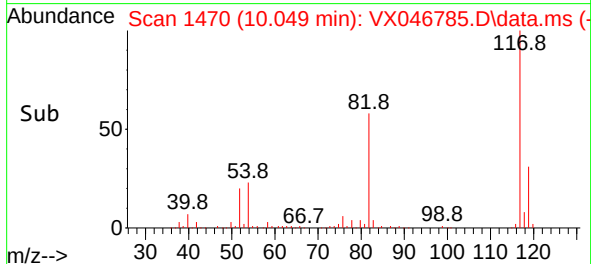
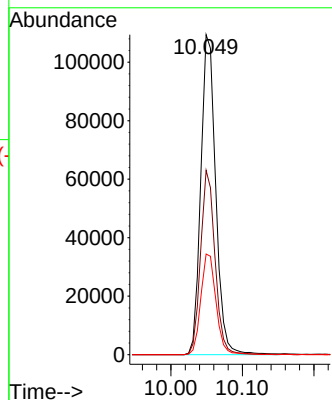
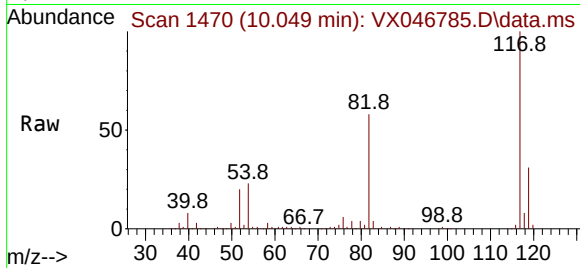




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

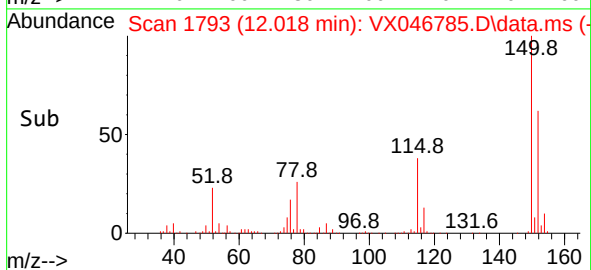
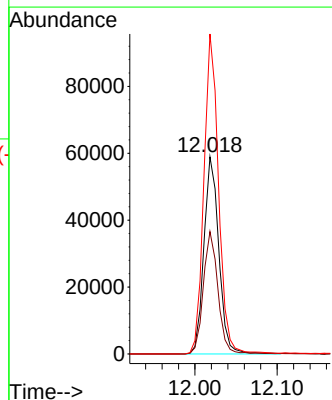
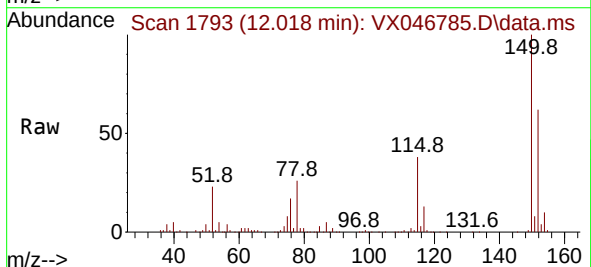
Instrument :
MSVOA_X
ClientSampleId :
VX0620MBL01

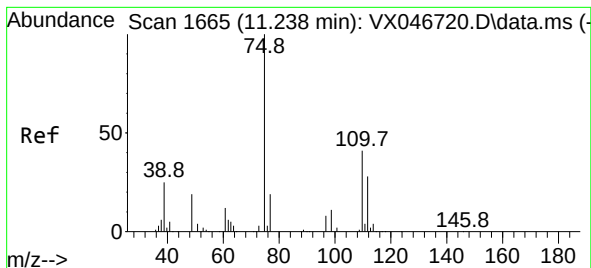
Tgt Ion:117 Resp: 158677
Ion Ratio Lower Upper
117 100
82 57.6 44.6 66.8
119 31.5 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

Tgt Ion:152 Resp: 74360
Ion Ratio Lower Upper
152 100
115 60.8 43.2 129.6
150 159.6 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 28.727 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

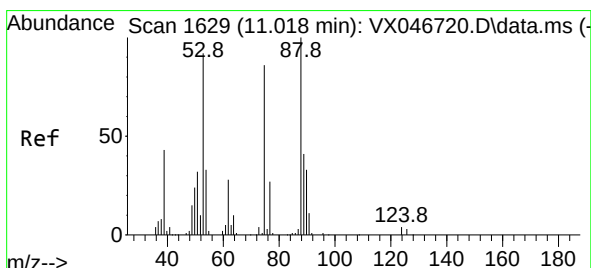
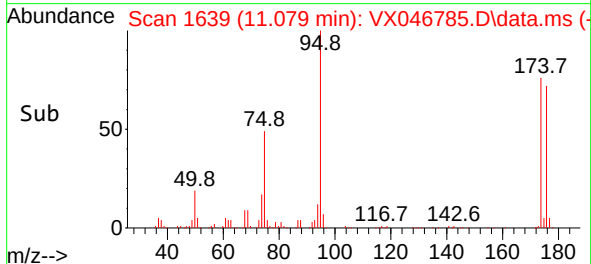
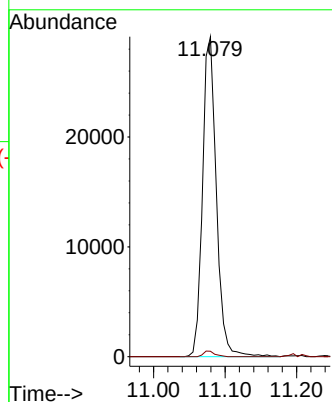
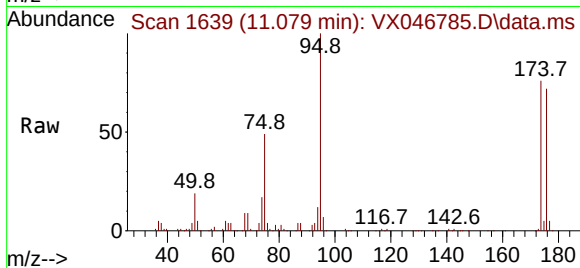
VX0620MBL01

Tgt Ion: 75 Resp: 39124

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.199 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

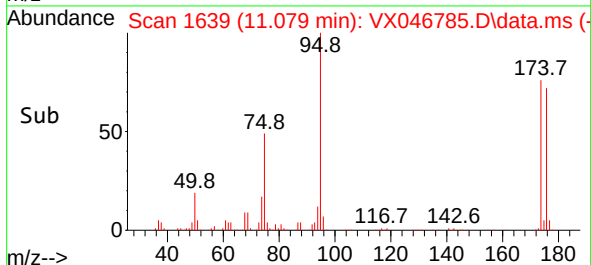
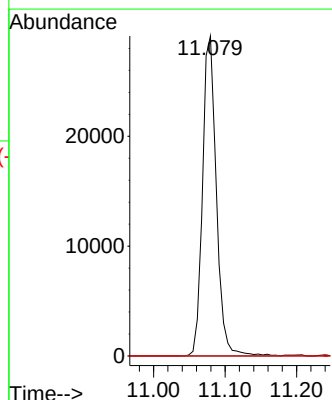
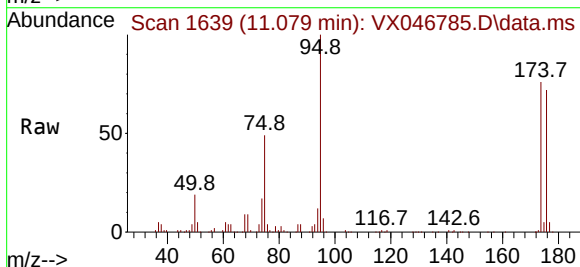
Tgt Ion: 75 Resp: 39124

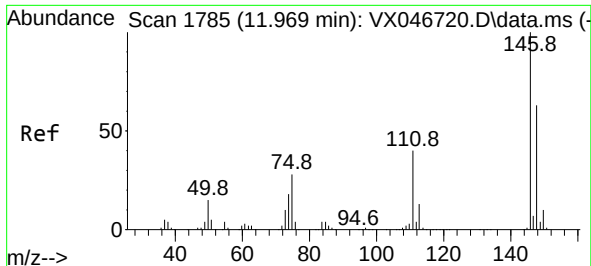
Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.269 ug/l

RT: 11.970 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

VX0620MBL01

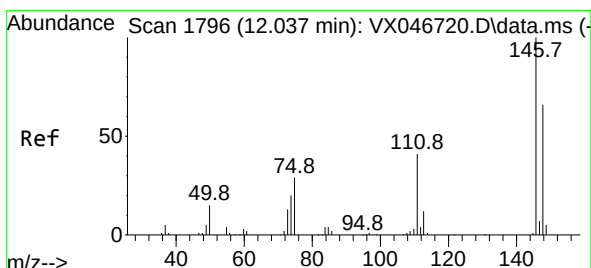
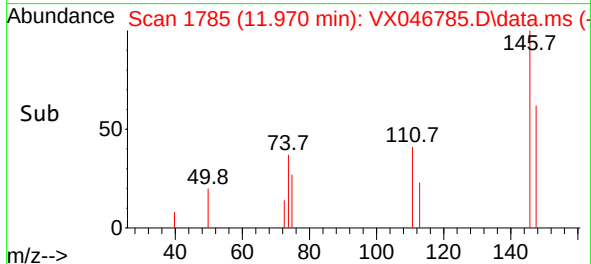
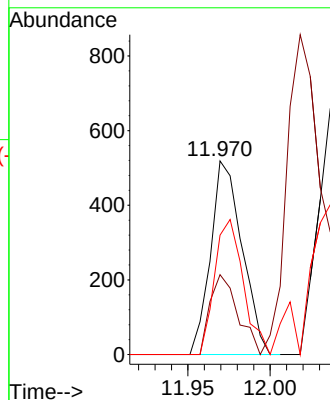
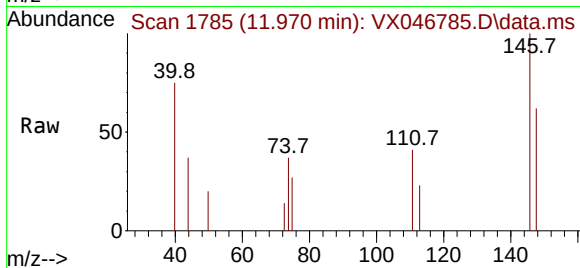
Tgt Ion:146 Resp: 690

Ion Ratio Lower Upper

146 100

111 36.4 20.6 61.8

148 63.5 31.6 94.8



#88

1,4-Dichlorobenzene

Concen: 0.261 ug/l

RT: 11.970 min Scan# 1785

Delta R.T. -0.067 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

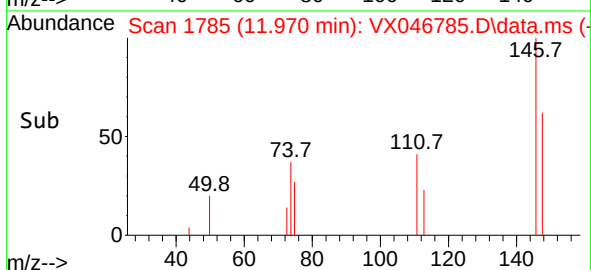
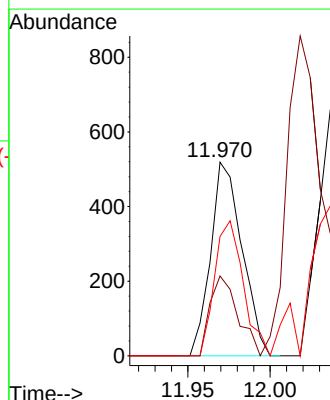
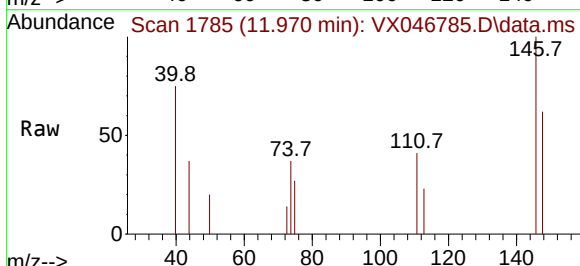
Tgt Ion:146 Resp: 690

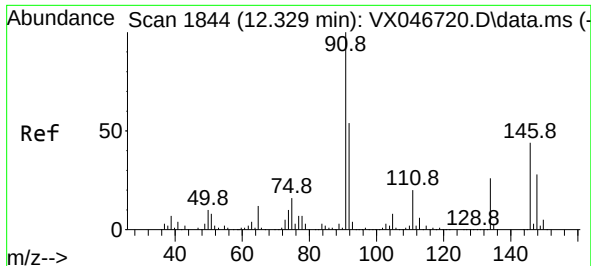
Ion Ratio Lower Upper

146 100

111 36.4 20.3 61.0

148 63.5 32.1 96.5





#89

n-Butylbenzene

Concen: 0.298 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

VX0620MBL01

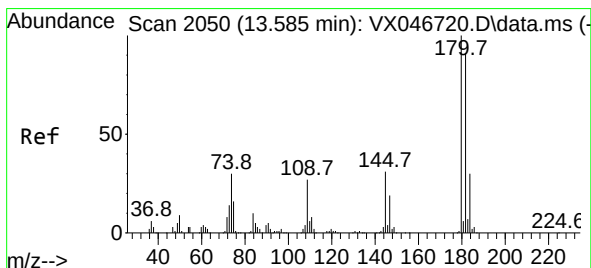
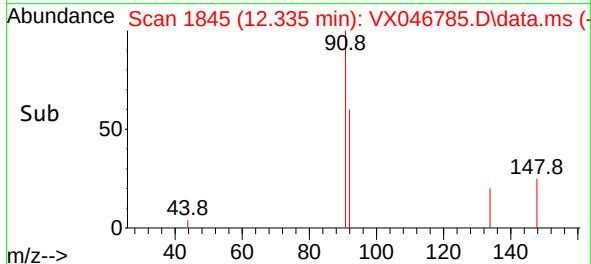
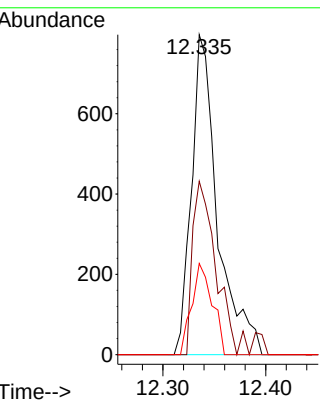
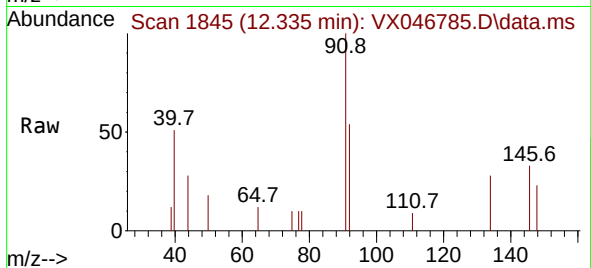
Tgt Ion: 91 Resp: 1405

Ion Ratio Lower Upper

91 100

92 47.4 27.1 81.3

134 22.6 12.9 38.6



#93

1,2,4-Trichlorobenzene

Concen: 0.512 ug/l

RT: 13.597 min Scan# 2052

Delta R.T. 0.012 min

Lab File: VX046785.D

Acq: 20 Jun 2025 16:17

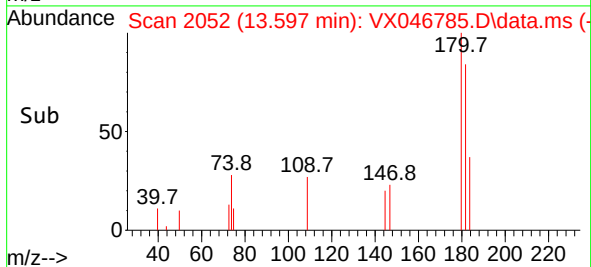
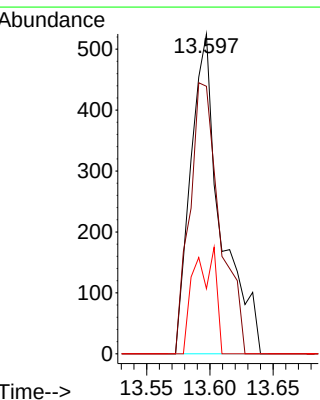
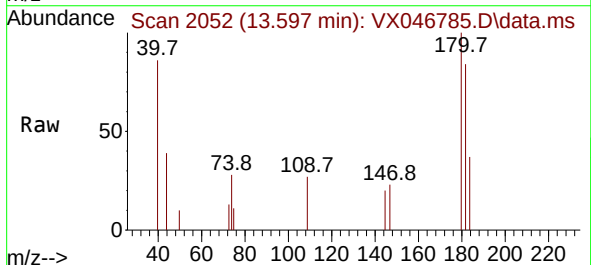
Tgt Ion:180 Resp: 874

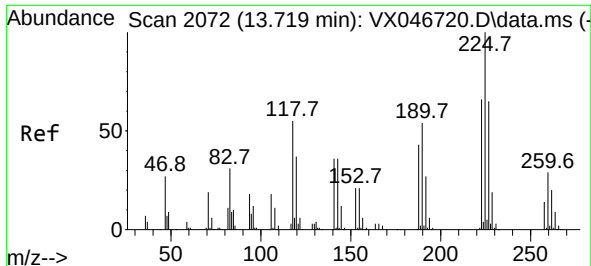
Ion Ratio Lower Upper

180 100

182 84.2 46.7 140.1

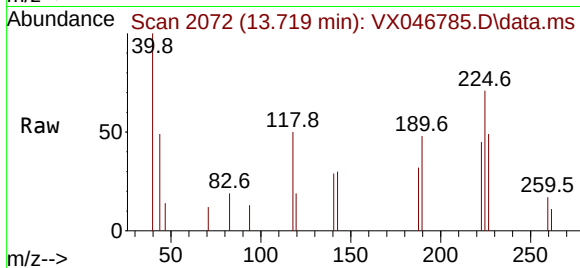
145 23.7 15.8 47.4



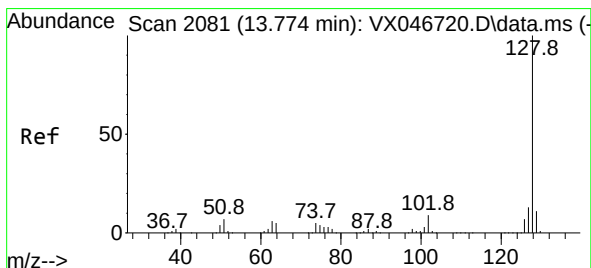
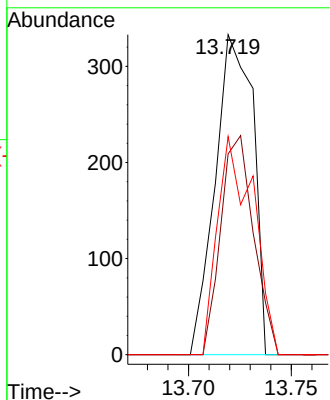
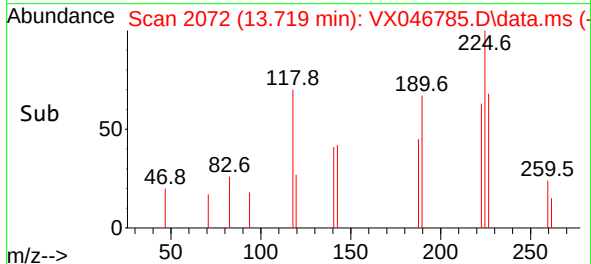


#94
Hexachlorobutadiene
Concen: 0.593 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. 0.000 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
VX0620MBL01

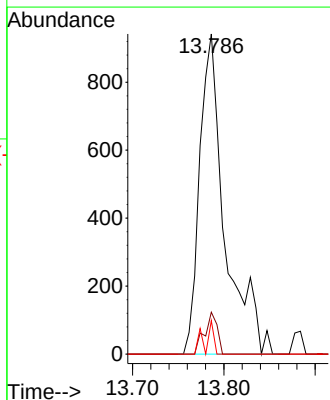
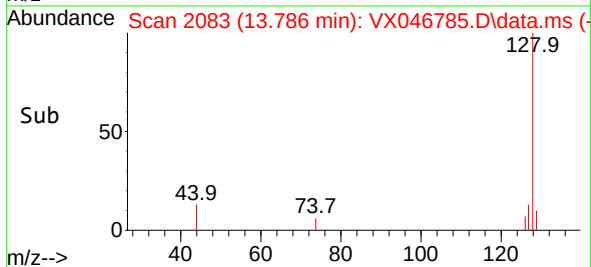
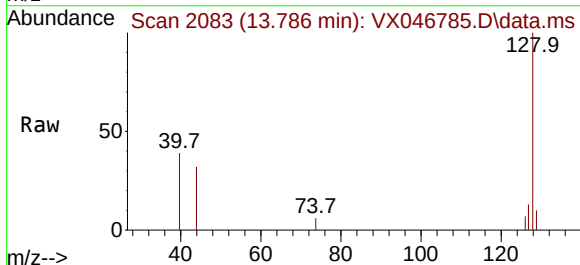


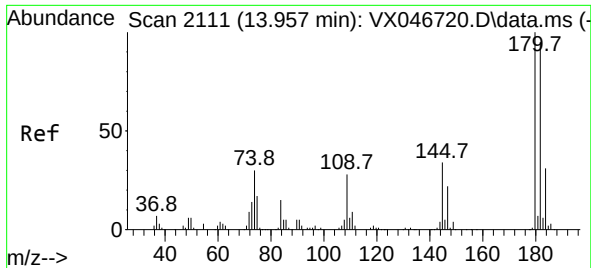
Tgt Ion:	225	Resp:	426
Ion Ratio	Lower	Upper	
225	100		
223	59.9	32.5	97.5
227	64.8	32.2	96.6



#95
Naphthalene
Concen: 0.371 ug/l
RT: 13.786 min Scan# 2083
Delta R.T. 0.012 min
Lab File: VX046785.D
Acq: 20 Jun 2025 16:17

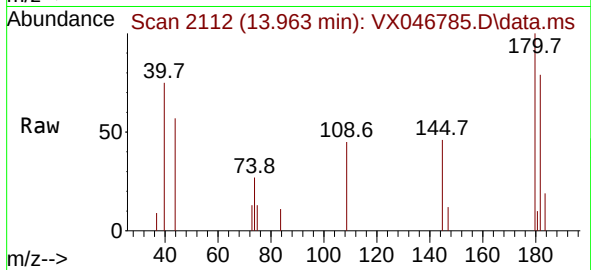
Tgt Ion:	128	Resp:	1803
Ion Ratio	Lower	Upper	
128	100		
127	6.6	10.1	15.1#
129	1.5	8.7	13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.495 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. 0.006 min
 Lab File: VX046785.D
 Acq: 20 Jun 2025 16:17

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620MBL01



Tgt Ion:	180	Resp:	808
Ion	Ratio	Lower	Upper
180	100		
182	79.2	47.8	143.4
145	35.3	17.3	51.9

