

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052825\
 Data File : VX046379.D
 Acq On : 28 May 2025 12:42
 Operator : JC/MD
 Sample : Q2109-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-02-MHF

Quant Time: May 28 13:04:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

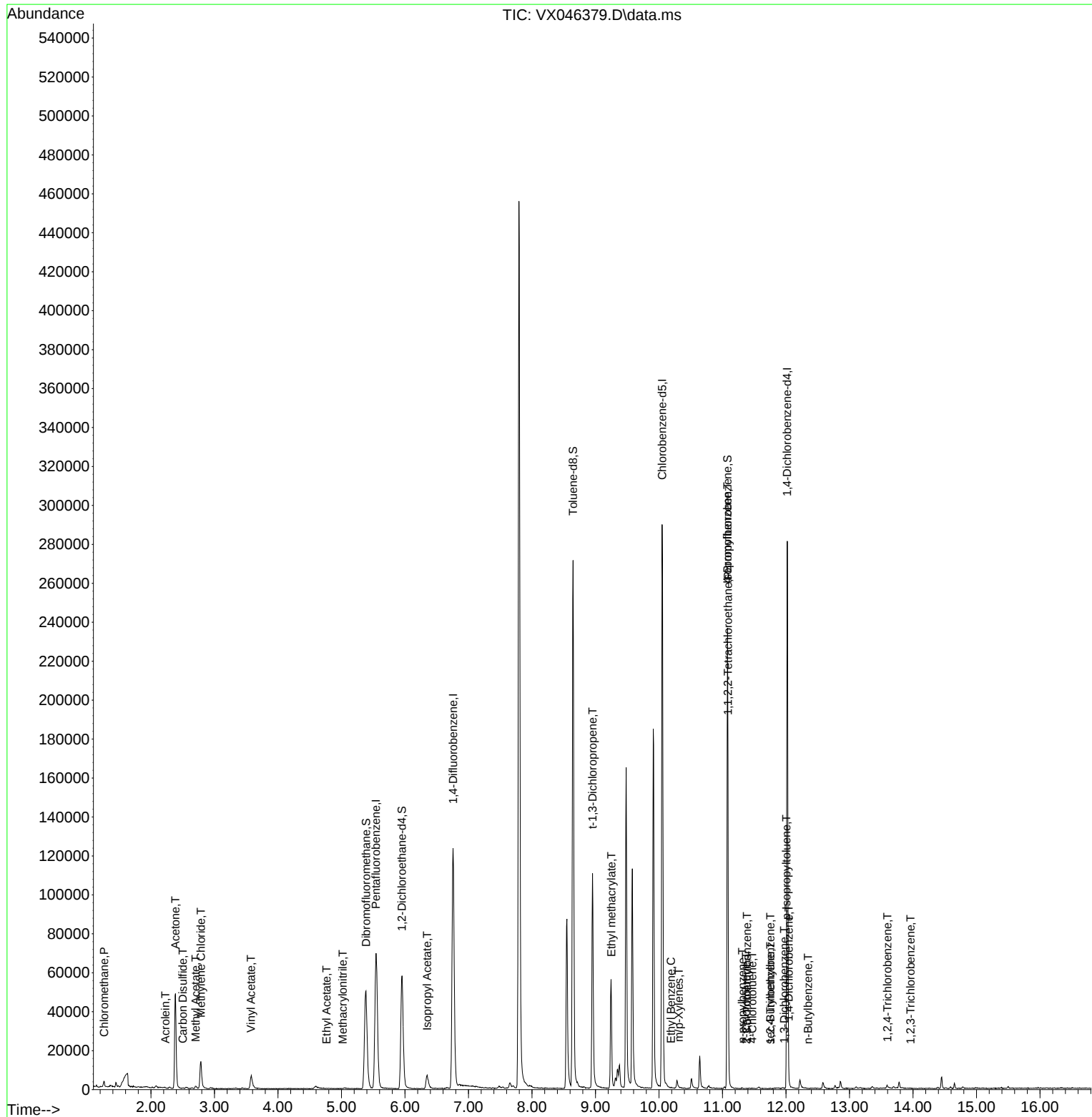
Internal Standards						
1) Pentafluorobenzene	5.544	168	59383	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	118018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116402	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50487	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60384	54.543	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.080%			
35) Dibromofluoromethane	5.385	113	44193	52.001	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.000%			
50) Toluene-d8	8.647	98	152294	51.775	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.540%			
62) 4-Bromofluorobenzene	11.079	95	60220	53.372	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.740%			
Target Compounds						Qvalue
3) Chloromethane	1.264	50	34	0.039	ug/l #	43
13) Acrolein	2.227	56	21	0.119	ug/l #	47
16) Acetone	2.386	43	54224	122.156	ug/l	96
17) Carbon Disulfide	2.502	76	225	0.135	ug/l #	76
18) Methyl Acetate	2.703	43	1745	1.694	ug/l	98
20) Methylene Chloride	2.788	84	6633	7.798	ug/l	94
23) Vinyl Acetate	3.575	43	44	0.019	ug/l #	74
37) Ethyl Acetate	4.763	43	230	0.163	ug/l #	70
41) Methacrylonitrile	5.019	41	48	0.065	ug/l #	53
43) Isopropyl Acetate	6.349	43	10550	4.902	ug/l	97
53) t-1,3-Dichloropropene	8.952	75	196	0.171	ug/l #	43
56) Ethyl methacrylate	9.250	69	165	0.128	ug/l #	1
67) Ethyl Benzene	10.189	91	76	0.017	ug/l #	45
68) m/p-Xylenes	10.311	106	49	0.030	ug/l #	12
73) Isopropylbenzene	11.079	105	45	0.011	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	11.085	83	60	0.044	ug/l #	5
78) n-propylbenzene	11.311	91	71	0.016	ug/l #	54
79) 2-Chlorotoluene	11.372	91	47	0.016	ug/l #	44
80) 1,3,5-Trimethylbenzene	11.384	105	21	0.006	ug/l #	30
82) 4-Chlorotoluene	11.470	91	56	0.017	ug/l #	48
84) 1,2,4-Trimethylbenzene	11.756	105	167	0.050	ug/l #	33
85) sec-Butylbenzene	11.756	105	167	0.041	ug/l #	57
86) p-Isopropyltoluene	12.006	119	63	0.019	ug/l #	1
87) 1,3-Dichlorobenzene	11.969	146	60	0.036	ug/l #	24
88) 1,4-Dichlorobenzene	12.043	146	138	0.081	ug/l #	24
89) n-Butylbenzene	12.347	91	30	0.010	ug/l #	33
93) 1,2,4-Trichlorobenzene	13.597	180	61	0.064	ug/l #	12
96) 1,2,3-Trichlorobenzene	13.963	180	65	0.066	ug/l #	69

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

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Quant Time: May 28 13:04:01 2025
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Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

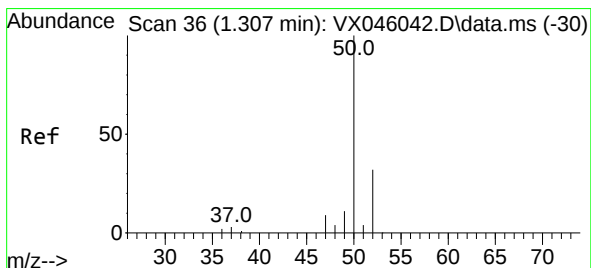
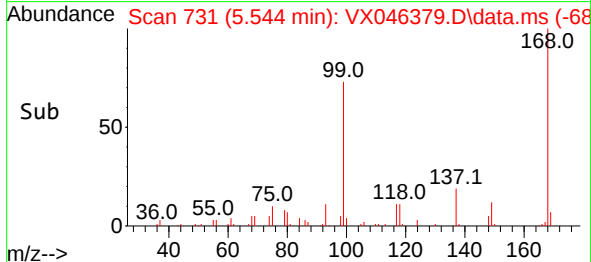
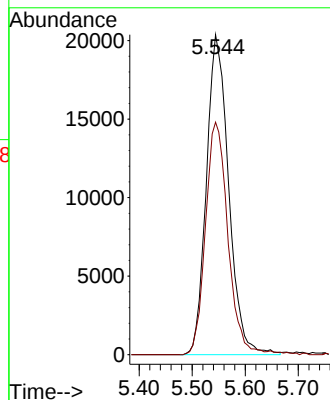
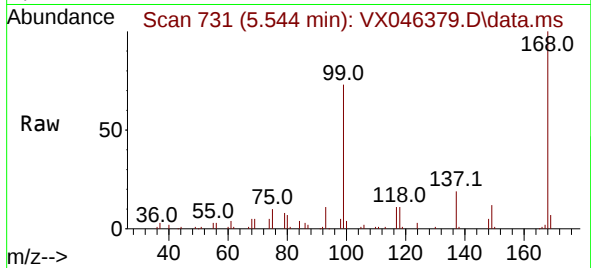




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

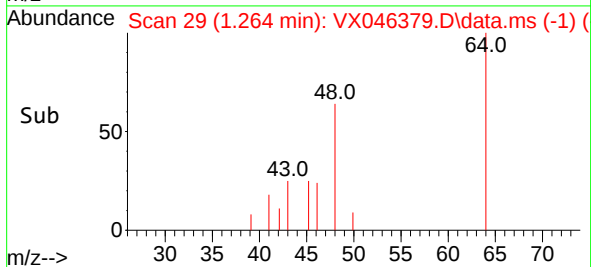
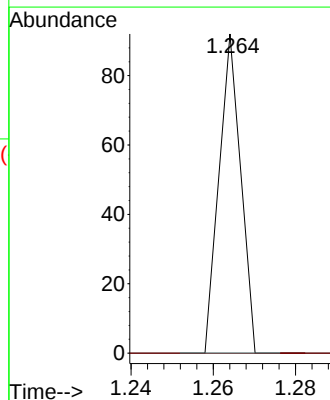
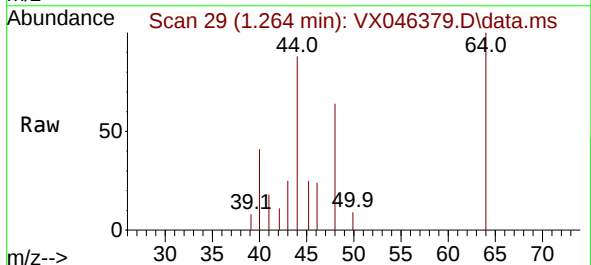
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

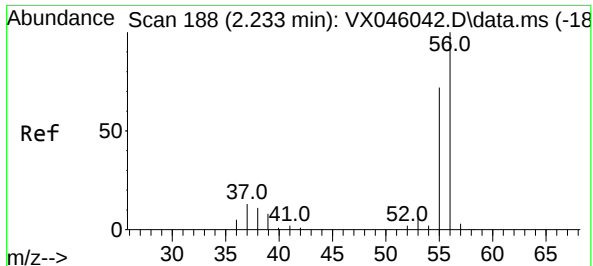
Tgt Ion:168 Resp: 59383
Ion Ratio Lower Upper
168 100
99 72.6 54.9 82.3



#3
Chloromethane
Concen: 0.039 ug/l
RT: 1.264 min Scan# 29
Delta R.T. -0.043 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 50 Resp: 34
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

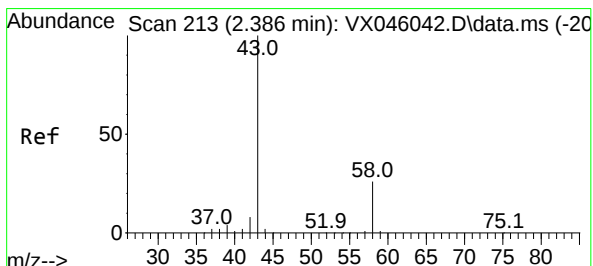
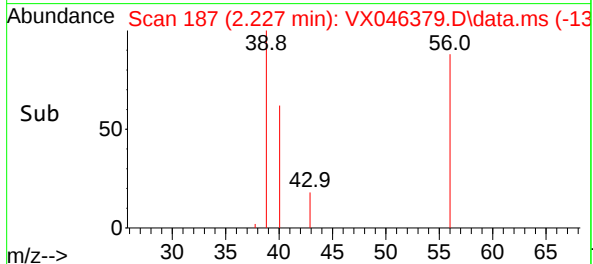
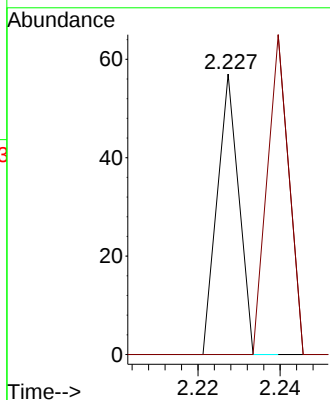
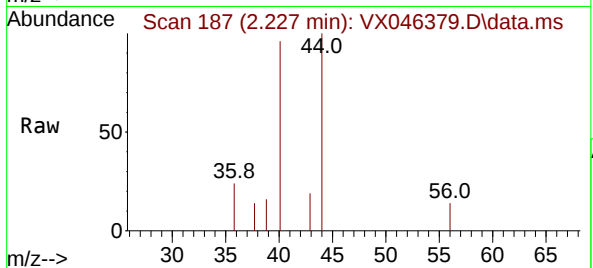




#13
Acrolein
Concen: 0.119 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.006 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

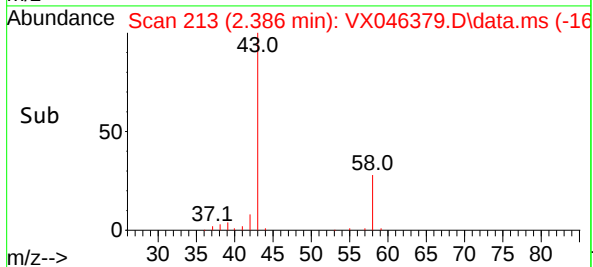
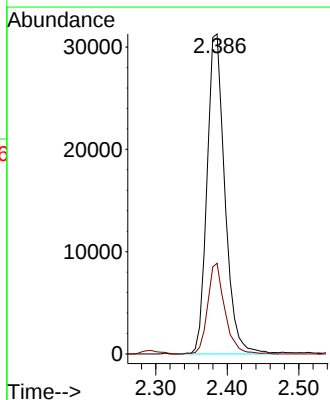
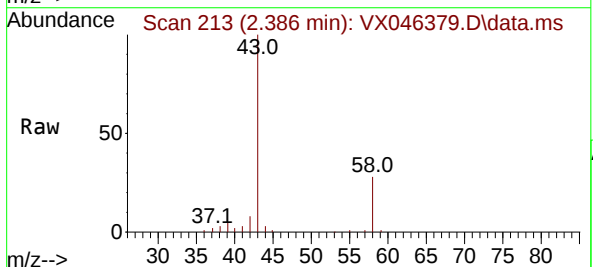
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

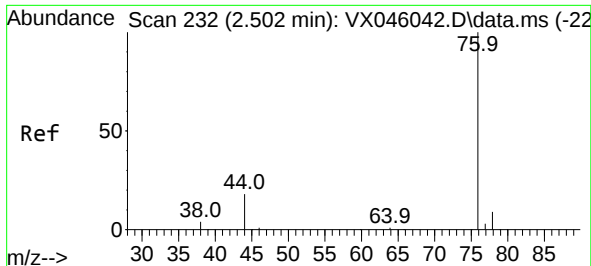
Tgt Ion: 56 Resp: 21
Ion Ratio Lower Upper
56 100
55 114.3 56.2 84.4#



#16
Acetone
Concen: 122.156 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 43 Resp: 54224
Ion Ratio Lower Upper
43 100
58 28.4 21.2 31.8

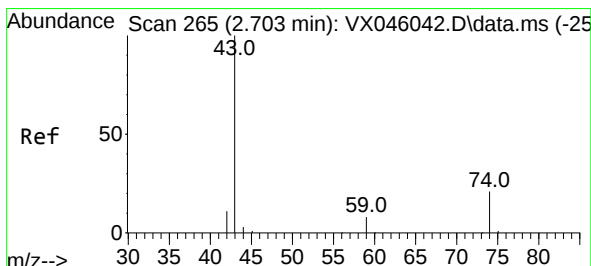
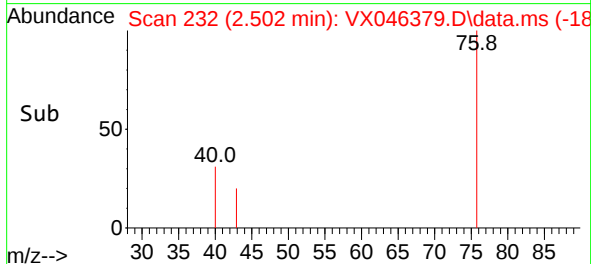
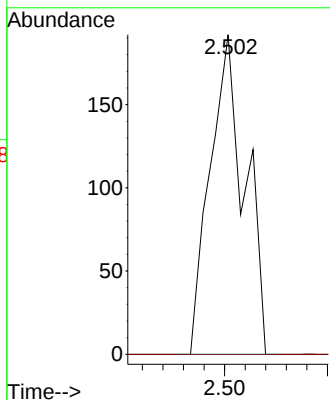
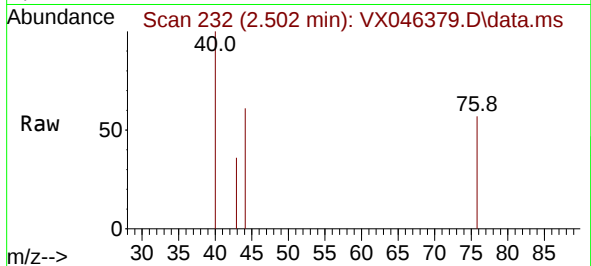




#17
Carbon Disulfide
Concen: 0.135 ug/l
RT: 2.502 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

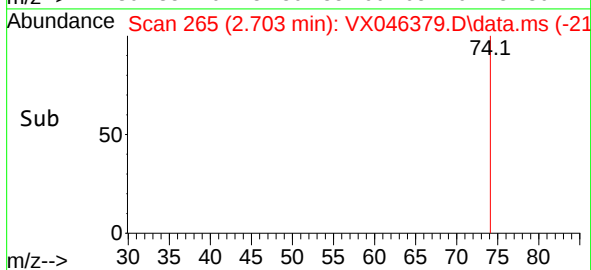
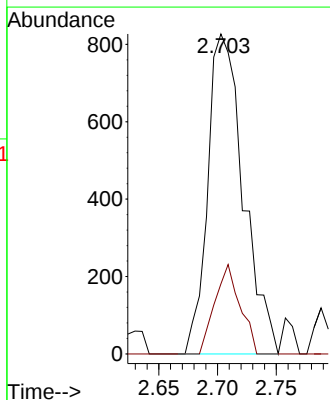
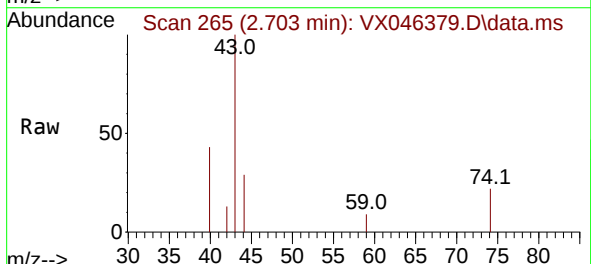
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

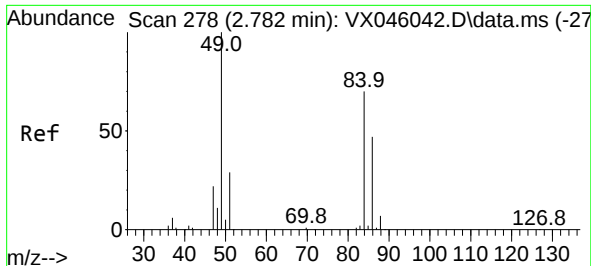
Tgt Ion: 76 Resp: 225
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 1.694 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 43 Resp: 1745
Ion Ratio Lower Upper
43 100
74 19.8 16.7 25.1



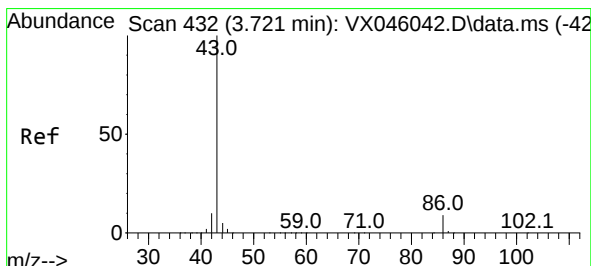
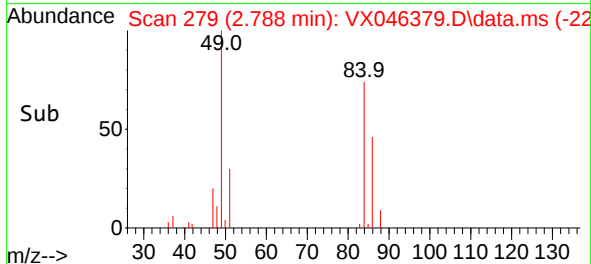
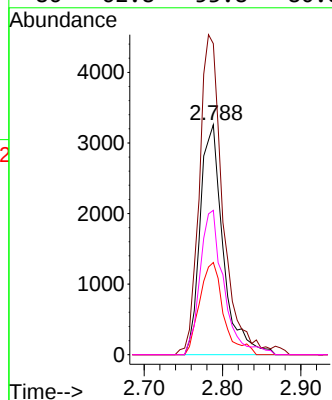
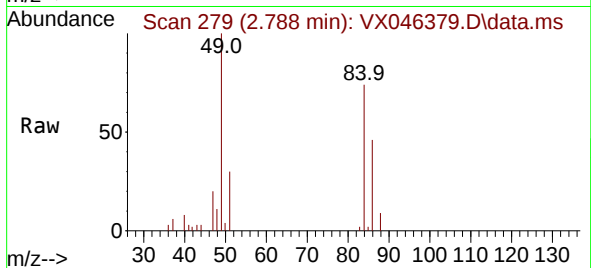


#20
Methylene Chloride
Concen: 7.798 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

Tgt Ion: 84 Resp: 6633

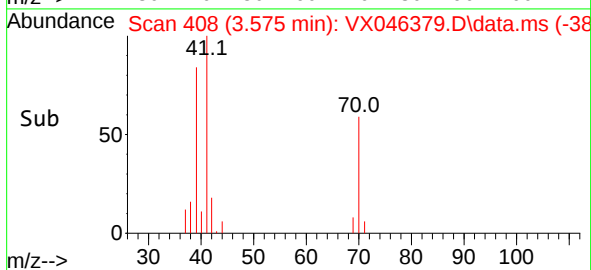
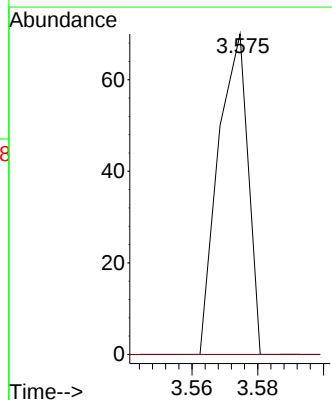
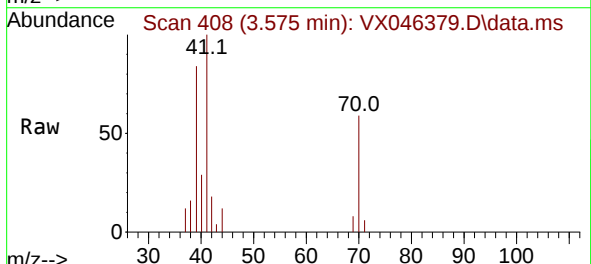
Ion	Ratio	Lower	Upper
84	100		
49	133.1	113.9	170.9
51	40.1	33.5	50.3
86	62.8	53.8	80.8

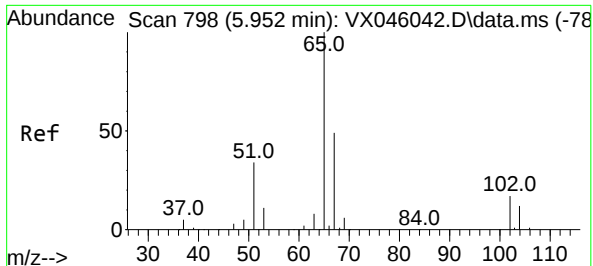


#23
Vinyl Acetate
Concen: 0.019 ug/l
RT: 3.575 min Scan# 408
Delta R.T. -0.146 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 43 Resp: 44

Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#





#33

1,2-Dichloroethane-d4

Concen: 54.543 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX046379.D

Acq: 28 May 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

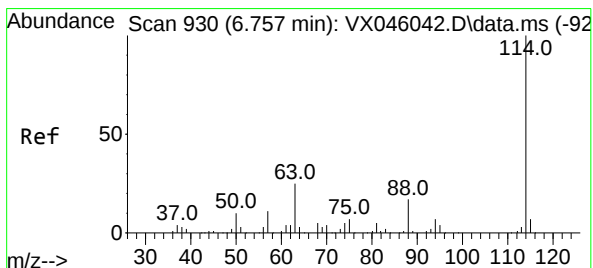
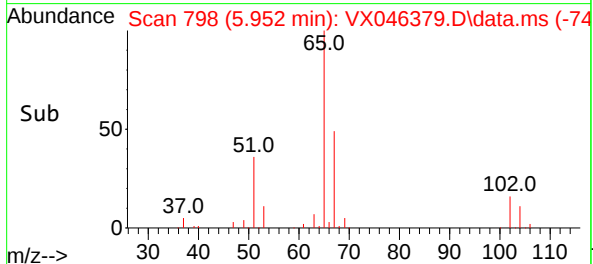
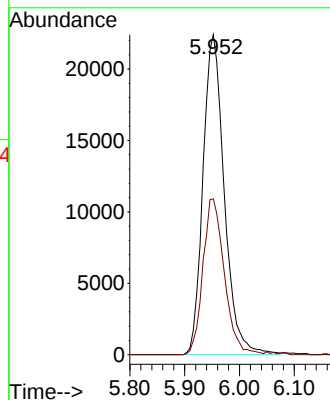
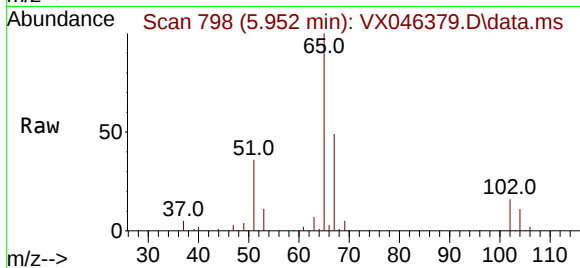
TP-02-MHF

Tgt Ion: 65 Resp: 60384

Ion Ratio Lower Upper

65 100

67 48.9 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX046379.D

Acq: 28 May 2025 12:42

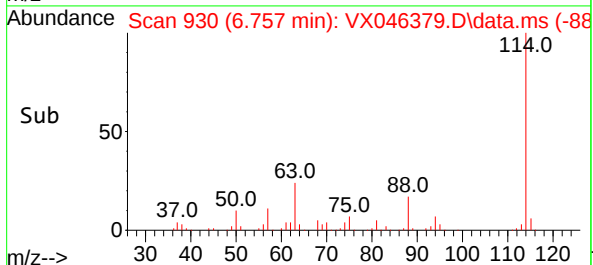
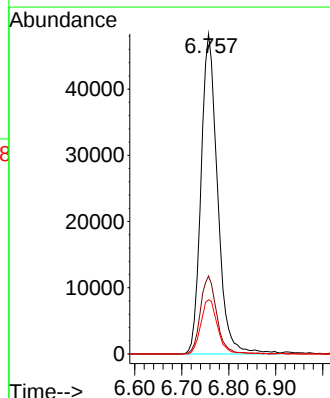
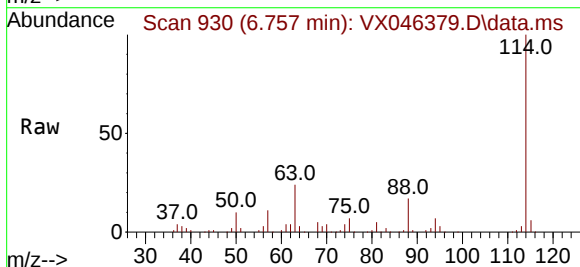
Tgt Ion: 114 Resp: 118018

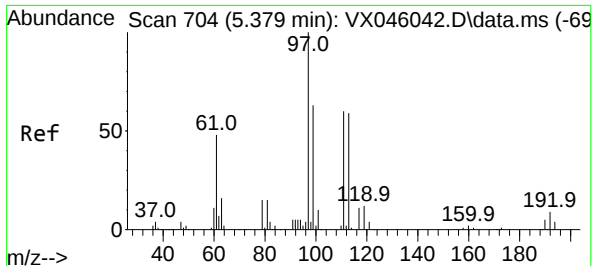
Ion Ratio Lower Upper

114 100

63 24.4 0.0 49.2

88 16.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.001 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX046379.D

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Instrument :

MSVOA_X

ClientSampleId :

TP-02-MHF

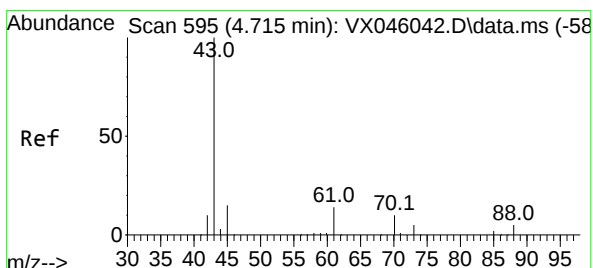
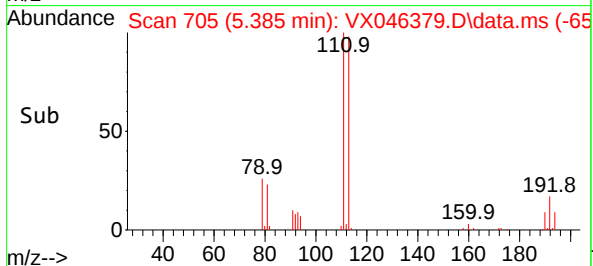
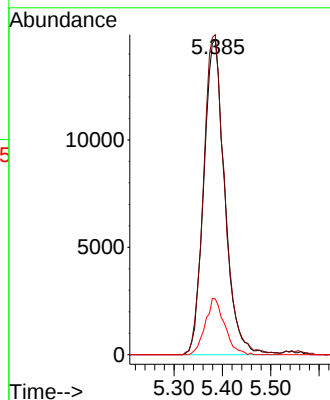
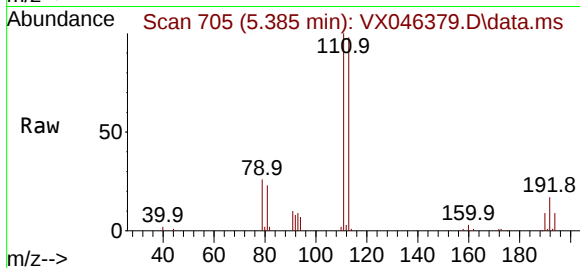
Tgt Ion:113 Resp: 44193

Ion Ratio Lower Upper

113 100

111 101.9 83.1 124.7

192 16.5 13.3 19.9



#37

Ethyl Acetate

Concen: 0.163 ug/l

RT: 4.763 min Scan# 603

Delta R.T. 0.049 min

Lab File: VX046379.D

Acq: 28 May 2025 12:42

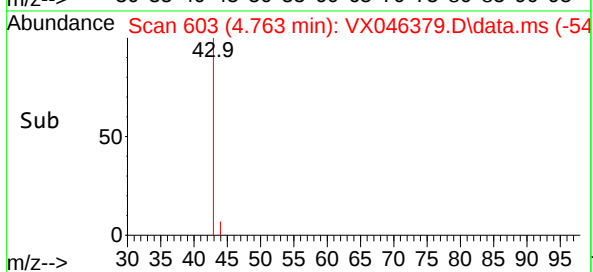
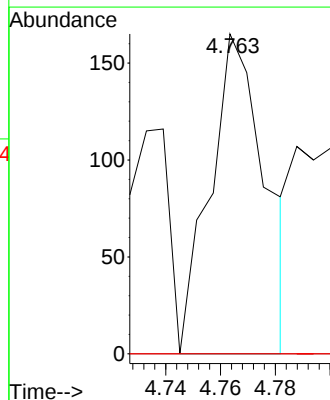
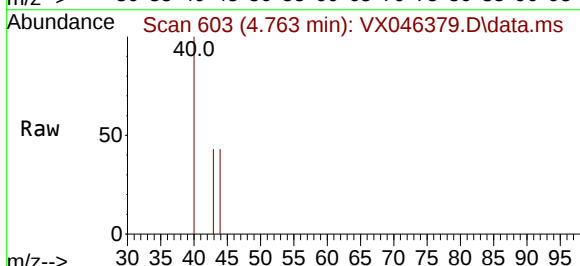
Tgt Ion: 43 Resp: 230

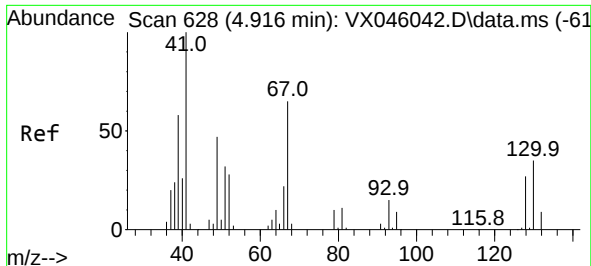
Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

70 0.0 7.9 11.9#

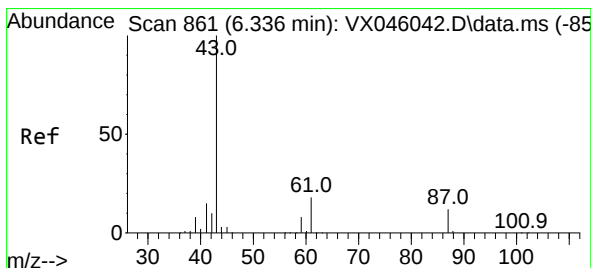
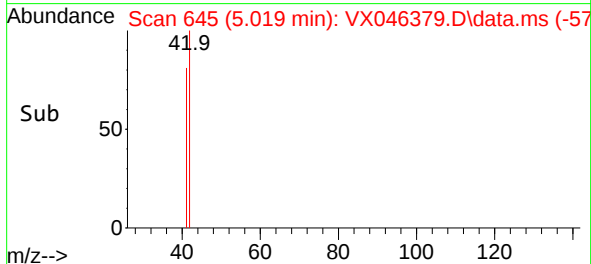
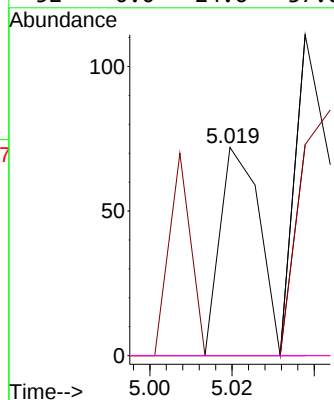
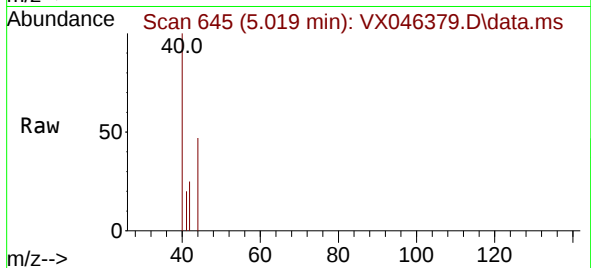




#41
Methacrylonitrile
Concen: 0.065 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.104 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

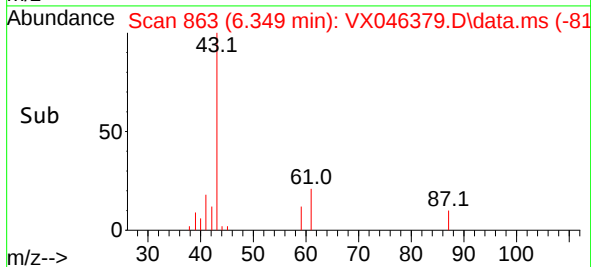
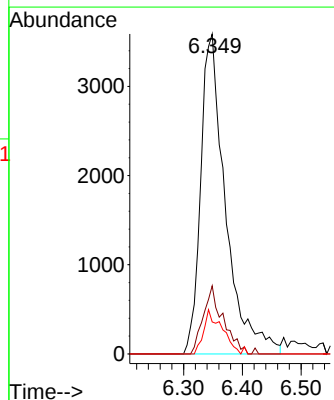
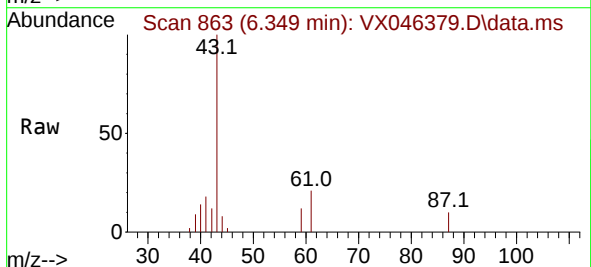
Instrument :
MSVOA_X
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TP-02-MHF

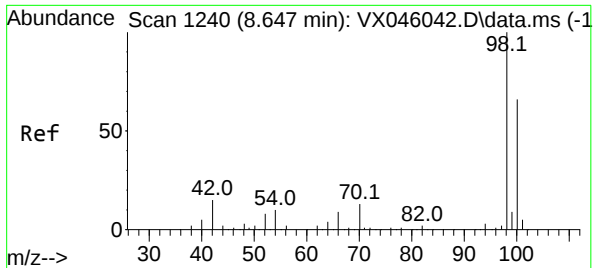
Tgt Ion: 41	Resp: 48
Ion Ratio	Lower Upper
41 100	
39 54.2	47.2 70.8
67 0.0	50.7 76.1#
52 0.0	24.6 37.0#



#43
Isopropyl Acetate
Concen: 4.902 ug/l
RT: 6.349 min Scan# 863
Delta R.T. 0.012 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 43	Resp: 10550
Ion Ratio	Lower Upper
43 100	
61 17.0	14.3 21.5
87 10.1	9.5 14.3

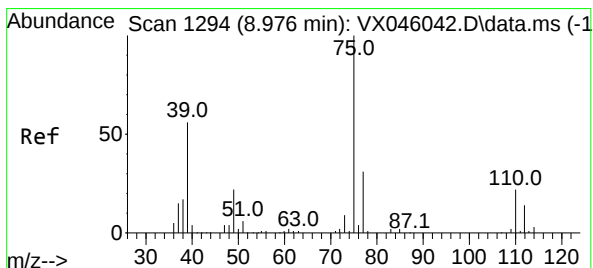
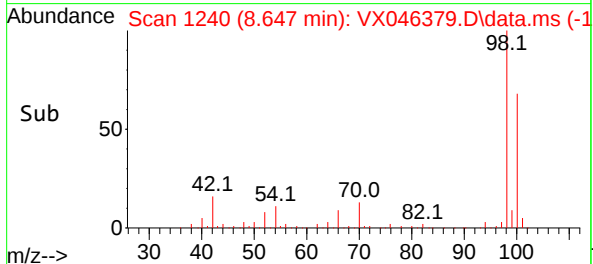
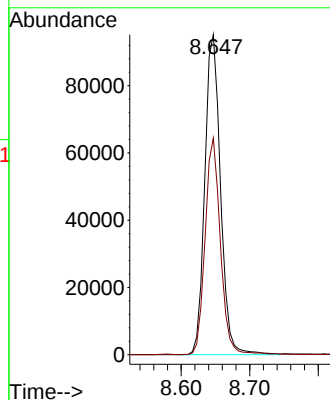
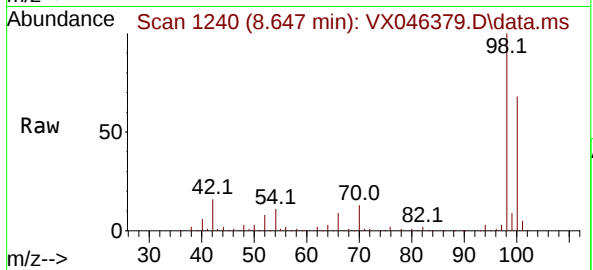




#50
Toluene-d8
Concen: 51.775 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

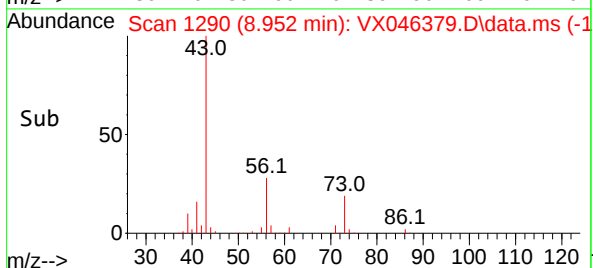
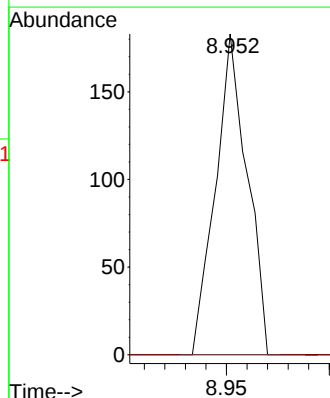
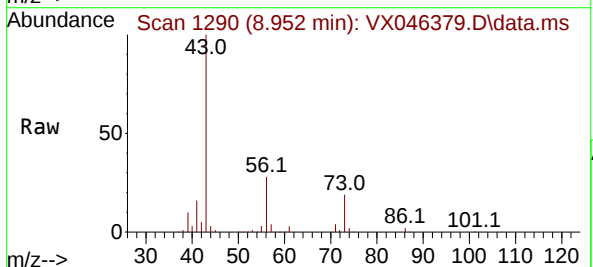
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

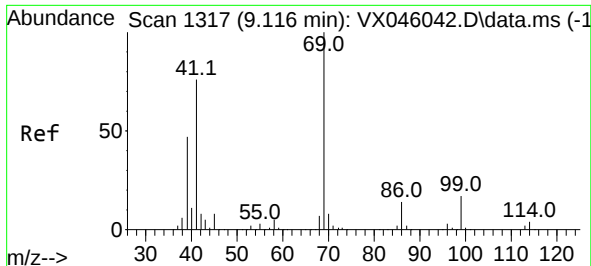
Tgt Ion: 98 Resp: 152294
Ion Ratio Lower Upper
98 100
100 66.0 53.5 80.3



#53
t-1,3-Dichloropropene
Concen: 0.171 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 75 Resp: 196
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#





#56

Ethyl methacrylate

Concen: 0.128 ug/l

RT: 9.250 min Scan# 1

Delta R.T. 0.134 min

Lab File: VX046379.D

Acq: 28 May 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

TP-02-MHF

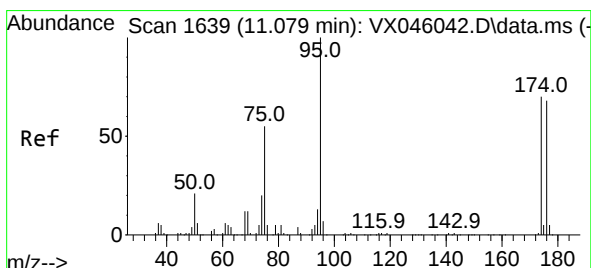
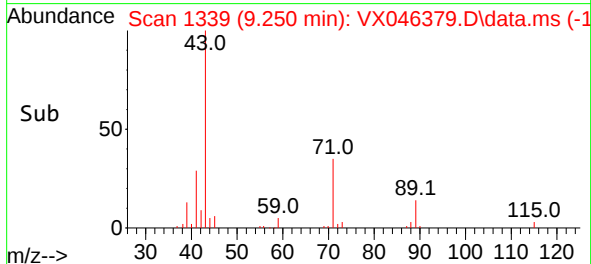
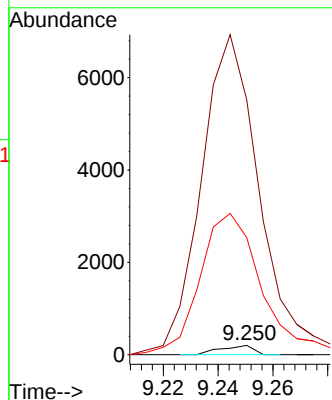
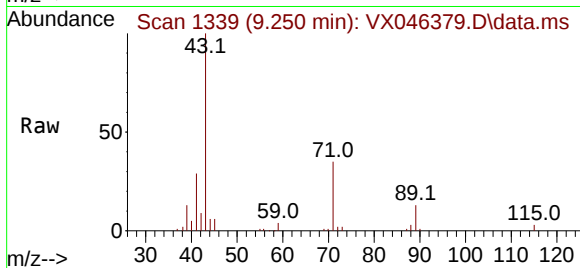
Tgt Ion: 69 Resp: 165

Ion Ratio Lower Upper

69 100

41 6252.7 60.8 91.2#

39 2976.4 39.0 58.6#



#62

4-Bromofluorobenzene

Concen: 53.372 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046379.D

Acq: 28 May 2025 12:42

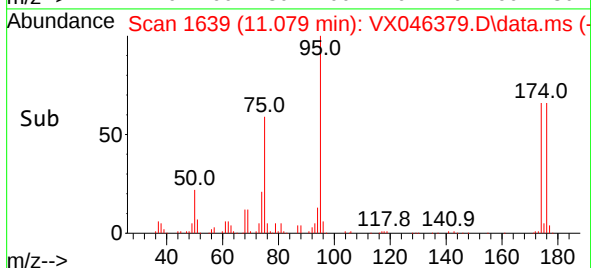
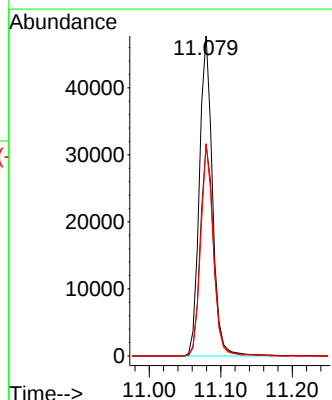
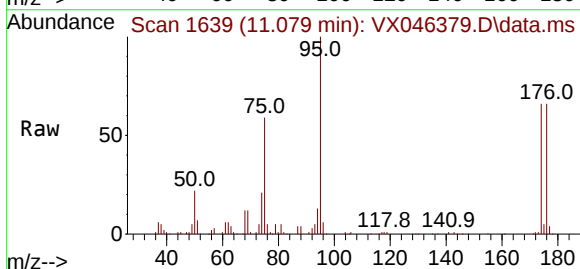
Tgt Ion: 95 Resp: 60220

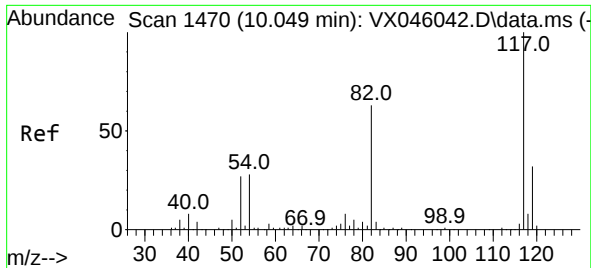
Ion Ratio Lower Upper

95 100

174 67.3 0.0 135.8

176 64.0 0.0 131.4

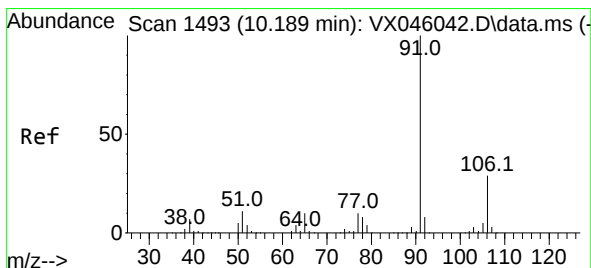
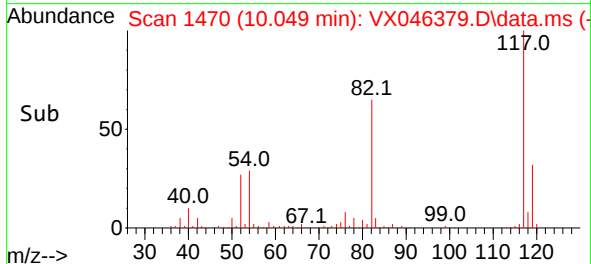
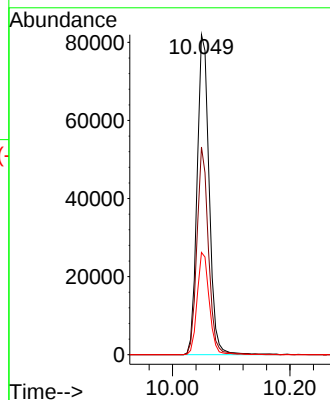
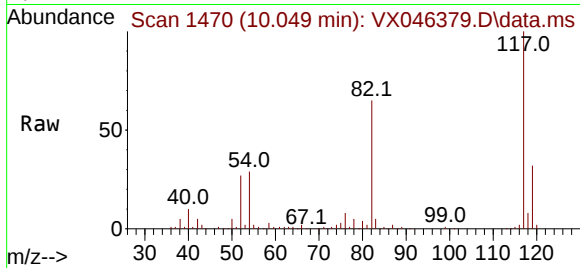




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

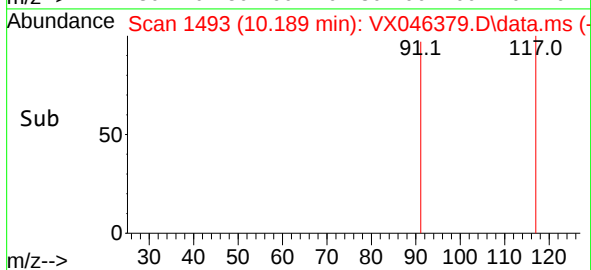
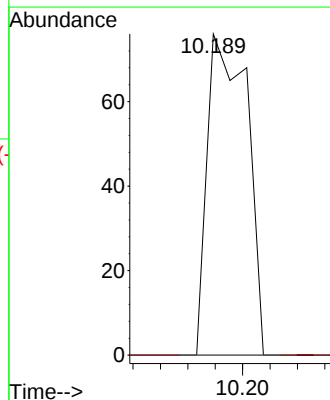
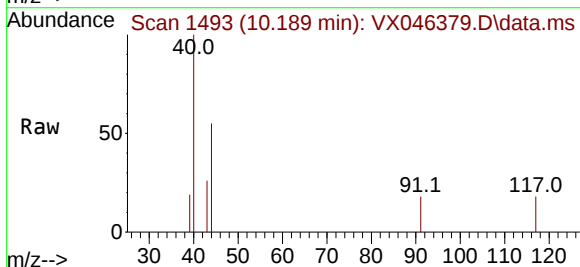
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

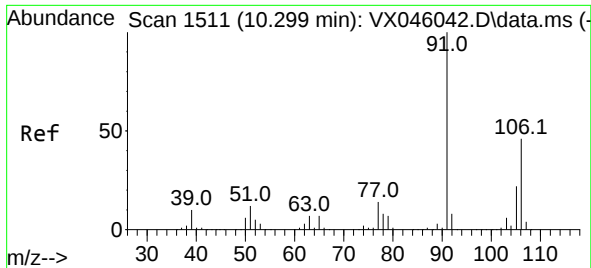
Tgt Ion:117 Resp: 116402
Ion Ratio Lower Upper
117 100
82 64.9 50.6 76.0
119 31.9 25.8 38.6



#67
Ethyl Benzene
Concen: 0.017 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 91 Resp: 76
Ion Ratio Lower Upper
91 100
106 0.0 23.4 35.2#

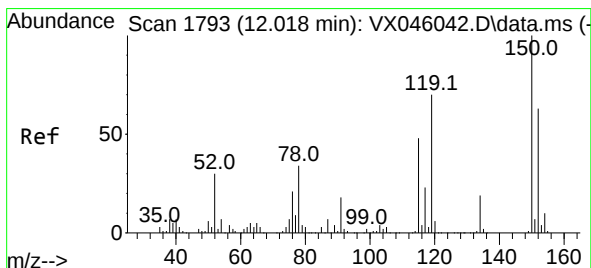
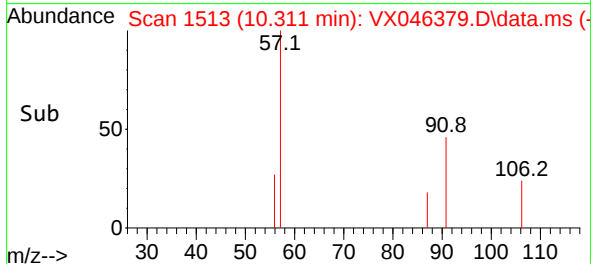
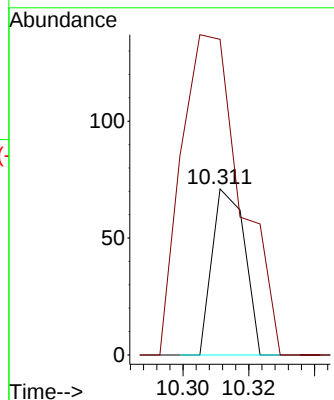
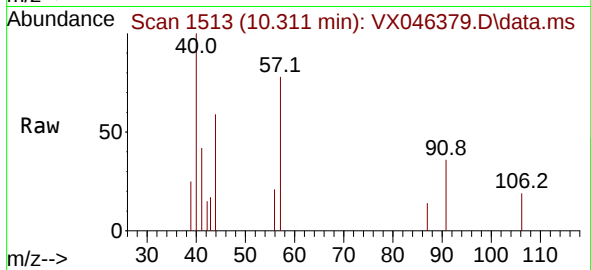




#68
m/p-Xylenes
Concen: 0.030 ug/l
RT: 10.311 min Scan# 1511
Delta R.T. 0.012 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

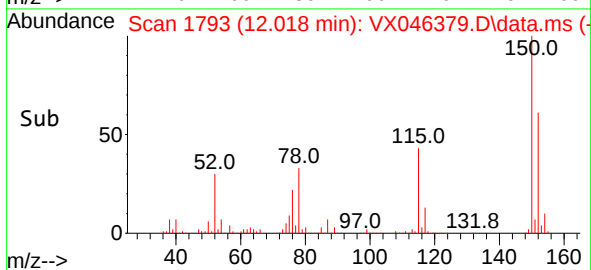
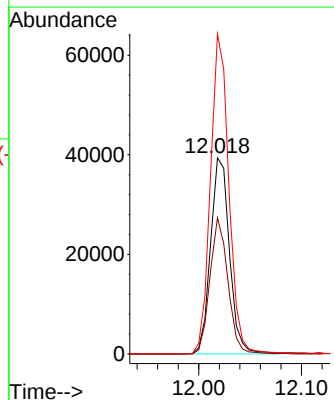
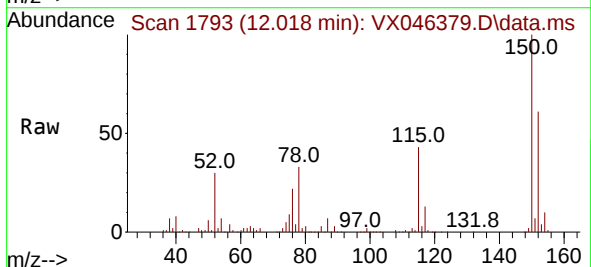
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

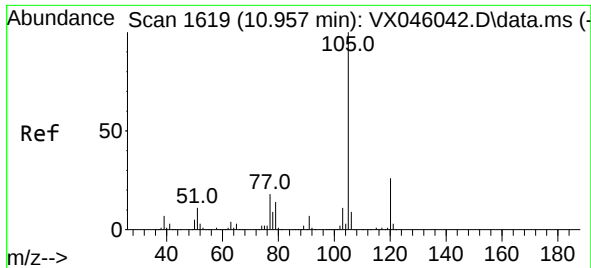
Tgt Ion:106 Resp: 49
Ion Ratio Lower Upper
106 100
91 353.1 171.2 256.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion:152 Resp: 50487
Ion Ratio Lower Upper
152 100
115 66.0 46.9 140.7
150 159.1 0.0 351.0

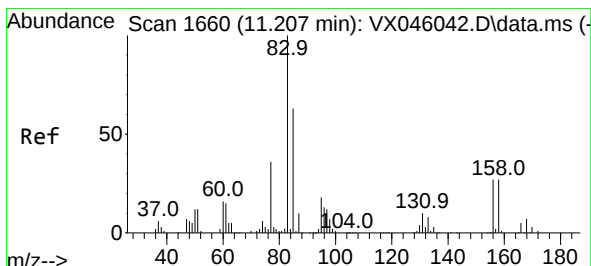
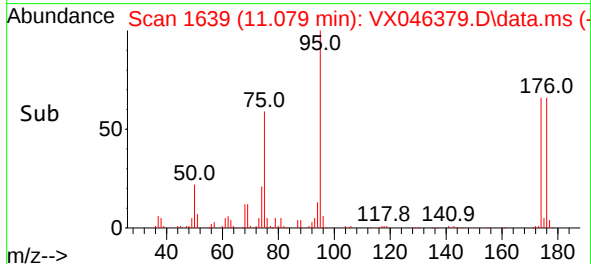
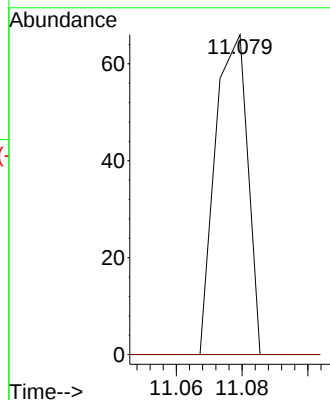
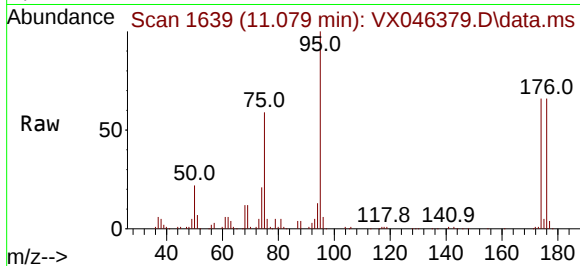




#73
Isopropylbenzene
Concen: 0.011 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.122 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

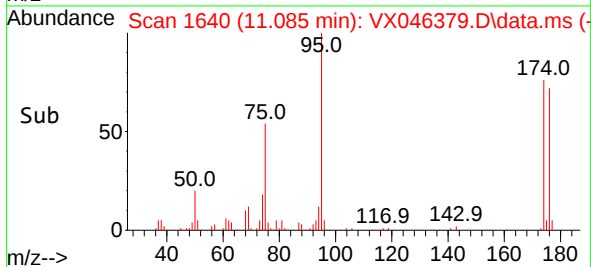
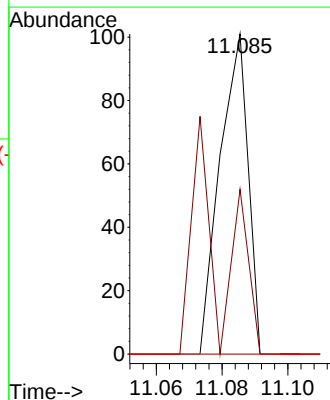
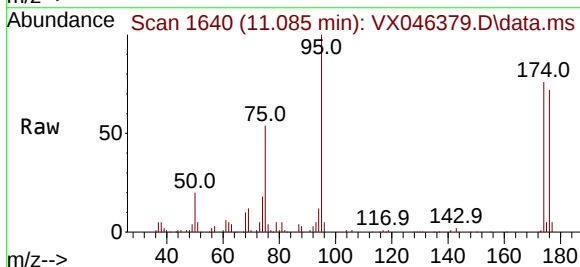
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

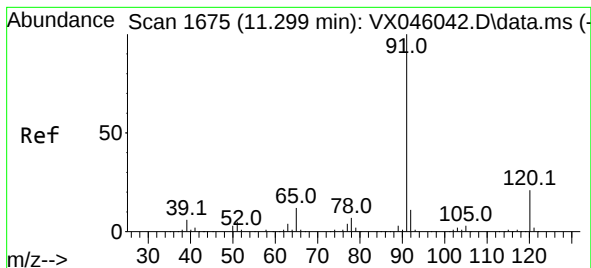
Tgt Ion:105 Resp: 45
Ion Ratio Lower Upper
105 100
120 0.0 12.8 38.4#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.044 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.122 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 83 Resp: 60
Ion Ratio Lower Upper
83 100
131 76.7 5.0 14.9#
85 0.0 31.9 95.7#





#78

n-propylbenzene

Concen: 0.016 ug/l

RT: 11.311 min Scan# 1677

Delta R.T. 0.012 min

Lab File: VX046379.D

Acq: 28 May 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

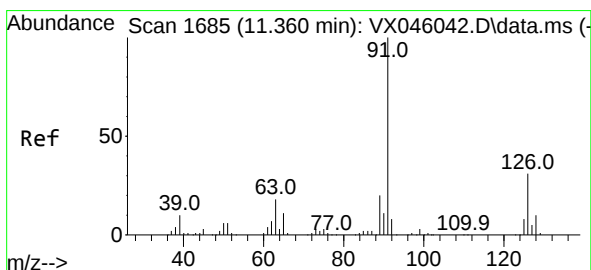
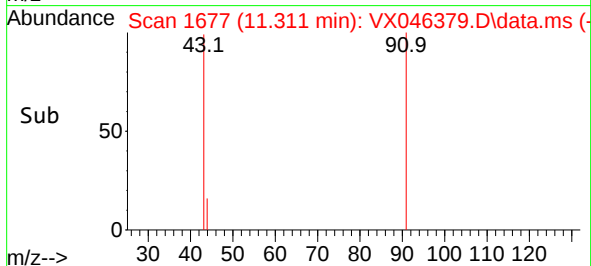
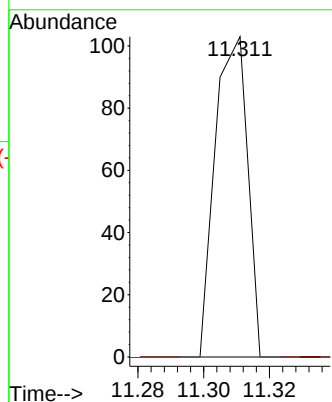
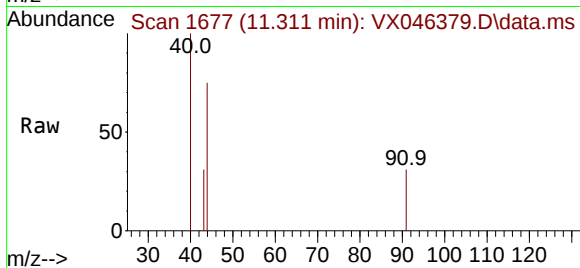
TP-02-MHF

Tgt Ion: 91 Resp: 71

Ion Ratio Lower Upper

91 100

120 0.0 10.8 32.4#



#79

2-Chlorotoluene

Concen: 0.016 ug/l

RT: 11.372 min Scan# 1687

Delta R.T. 0.012 min

Lab File: VX046379.D

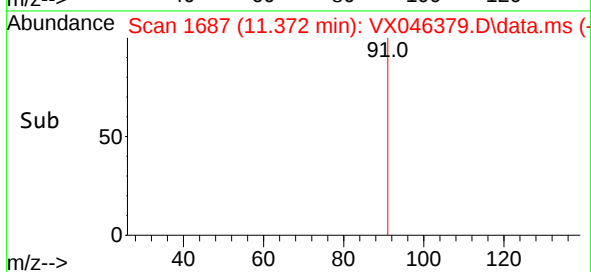
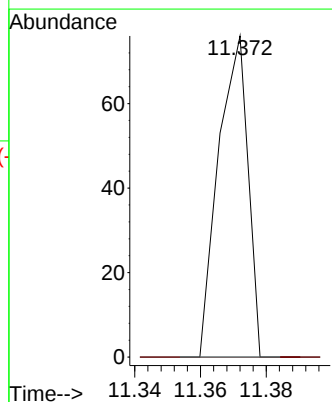
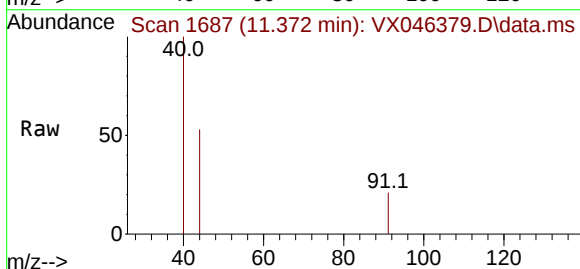
Acq: 28 May 2025 12:42

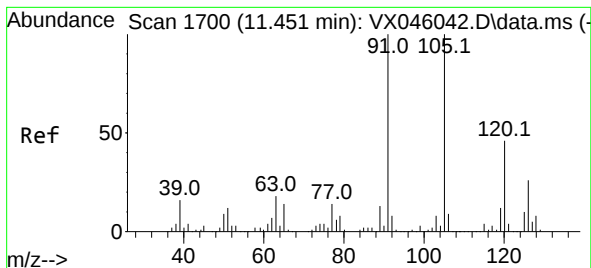
Tgt Ion: 91 Resp: 47

Ion Ratio Lower Upper

91 100

126 0.0 15.6 46.7#





#80

1,3,5-Trimethylbenzene

Concen: 0.006 ug/l

RT: 11.384 min Scan# 1

Delta R.T. -0.067 min

Lab File: VX046379.D

Acq: 28 May 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

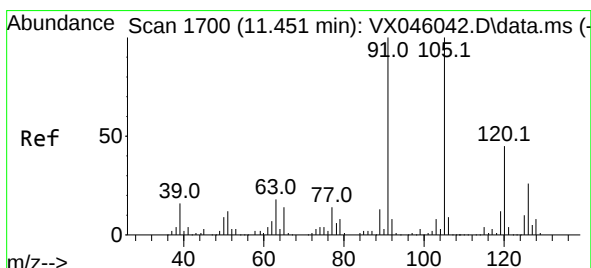
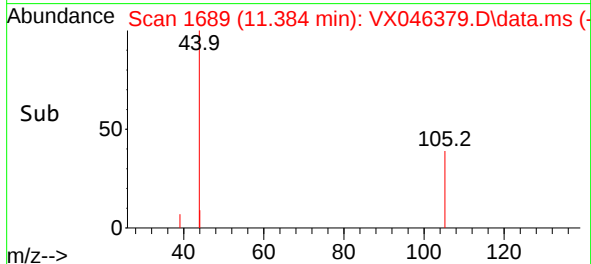
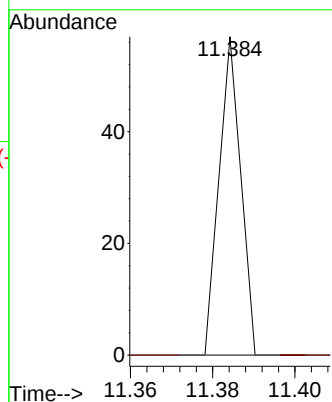
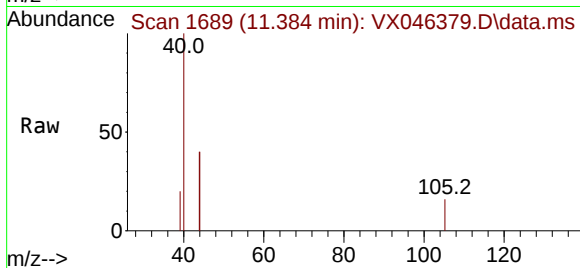
TP-02-MHF

Tgt Ion:105 Resp: 21

Ion Ratio Lower Upper

105 100

120 0.0 23.1 69.2#



#82

4-Chlorotoluene

Concen: 0.017 ug/l

RT: 11.470 min Scan# 1703

Delta R.T. 0.018 min

Lab File: VX046379.D

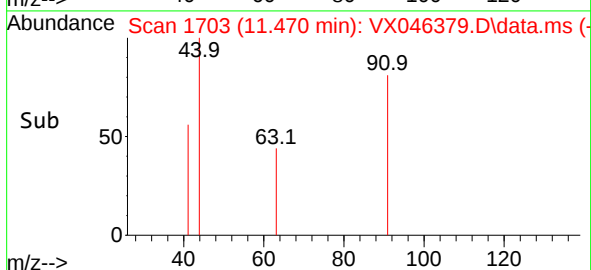
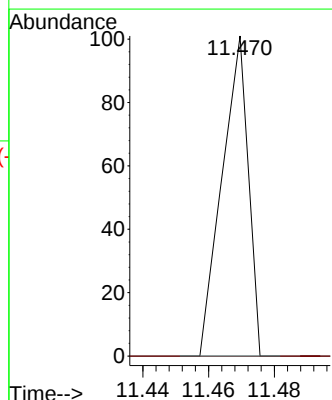
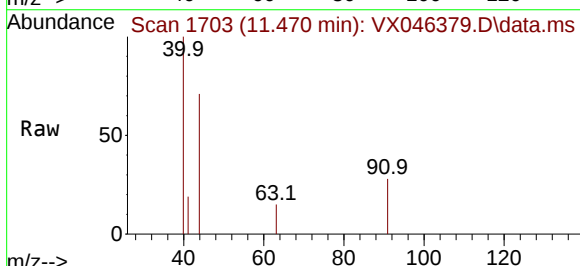
Acq: 28 May 2025 12:42

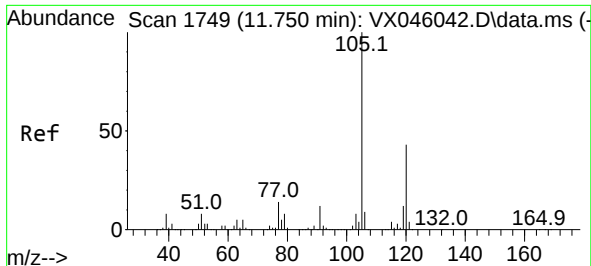
Tgt Ion: 91 Resp: 56

Ion Ratio Lower Upper

91 100

126 0.0 13.3 39.8#

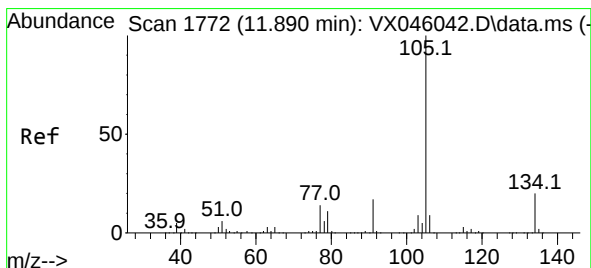
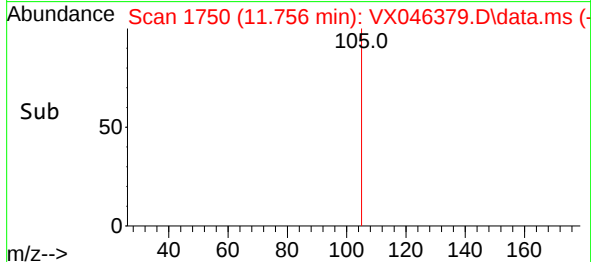
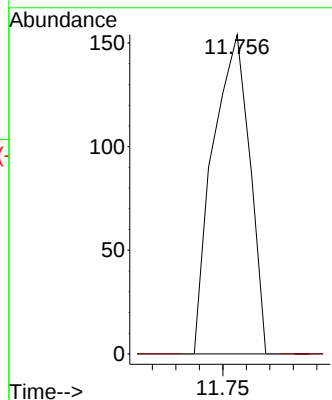
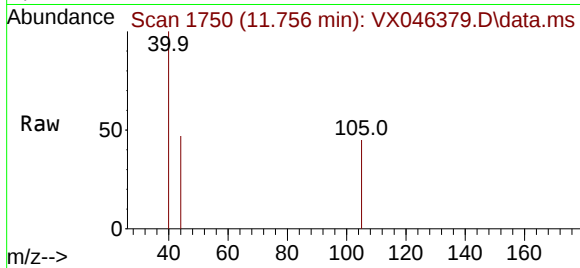




#84
1,2,4-Trimethylbenzene
Concen: 0.050 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

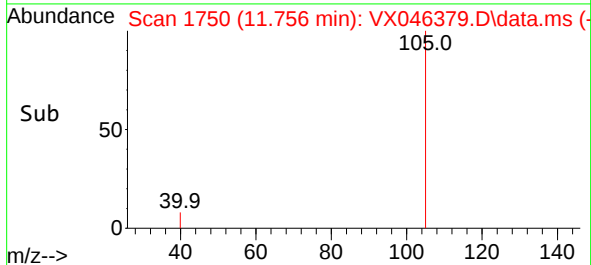
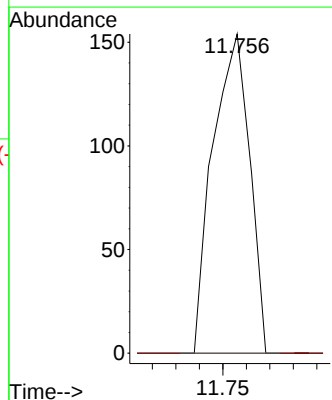
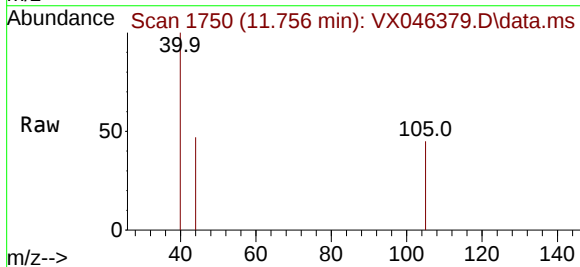
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

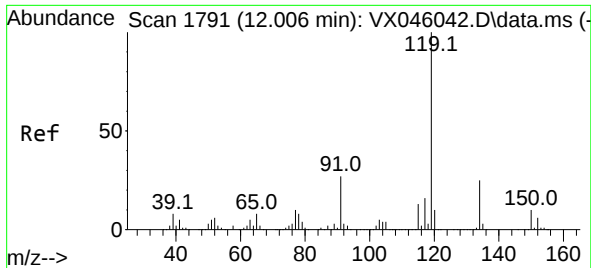
Tgt Ion:105 Resp: 167
Ion Ratio Lower Upper
105 100
120 0.0 21.2 63.6#



#85
sec-Butylbenzene
Concen: 0.041 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.134 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion:105 Resp: 167
Ion Ratio Lower Upper
105 100
134 0.0 9.7 29.1#

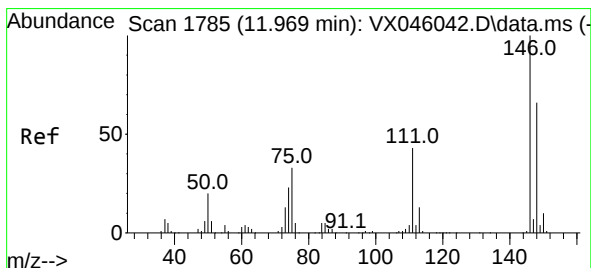
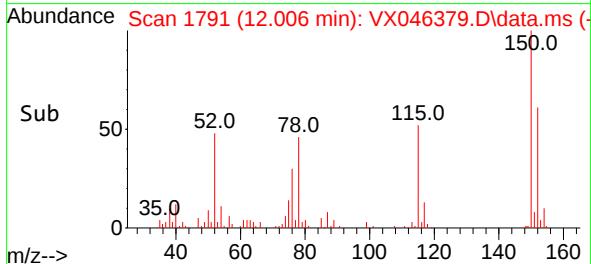
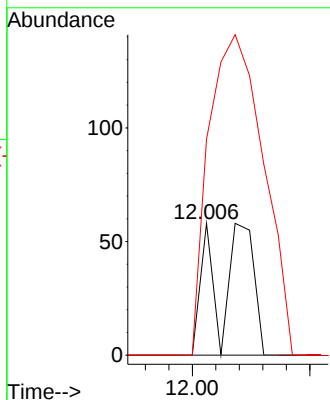
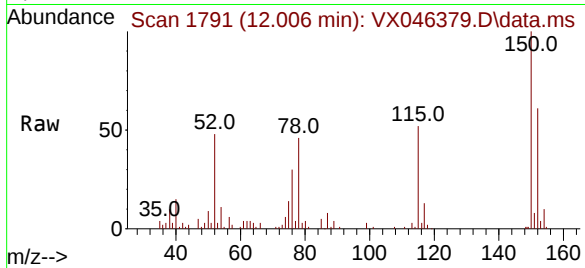




#86
 p-Isopropyltoluene
 Concen: 0.019 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX046379.D
 Acq: 28 May 2025 12:42

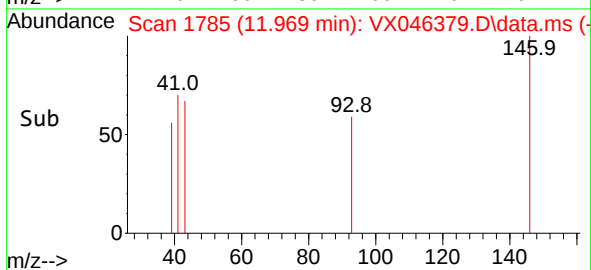
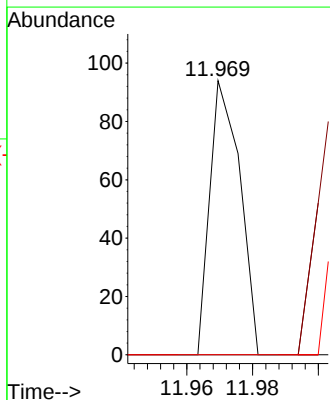
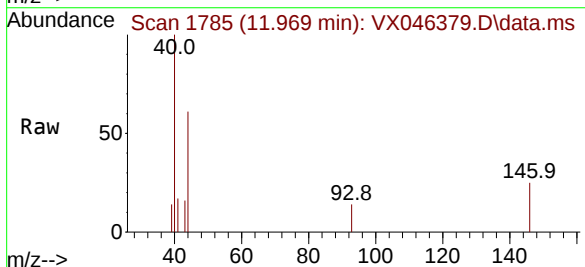
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-02-MHF

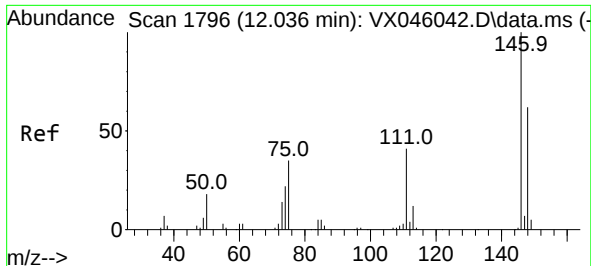
Tgt Ion:	119	Resp:	63
Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.5	37.5#
91	363.5	13.8	41.4#



#87
 1,3-Dichlorobenzene
 Concen: 0.036 ug/l
 RT: 11.969 min Scan# 1785
 Delta R.T. 0.000 min
 Lab File: VX046379.D
 Acq: 28 May 2025 12:42

Tgt Ion:	146	Resp:	60
Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.1	66.3#
148	0.0	32.1	96.5#

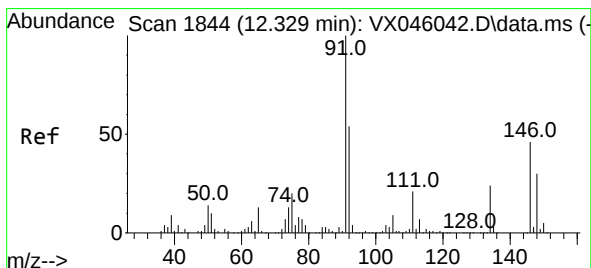
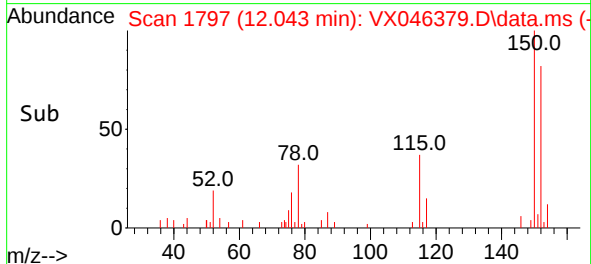
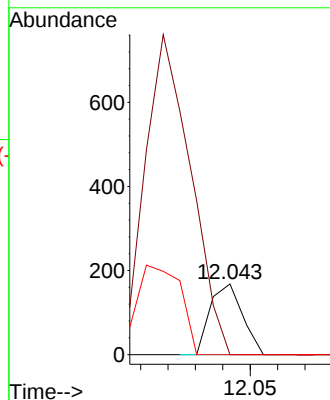
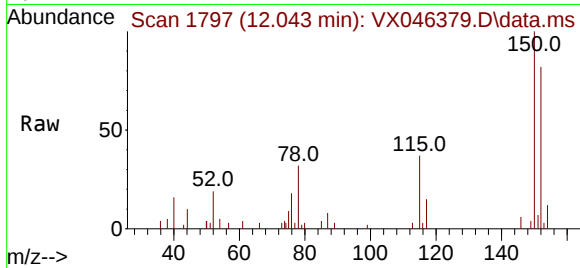




#88
1,4-Dichlorobenzene
Concen: 0.081 ug/l
RT: 12.043 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

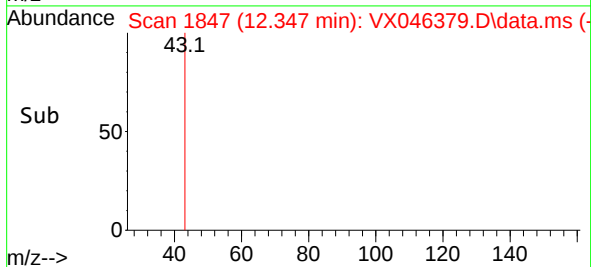
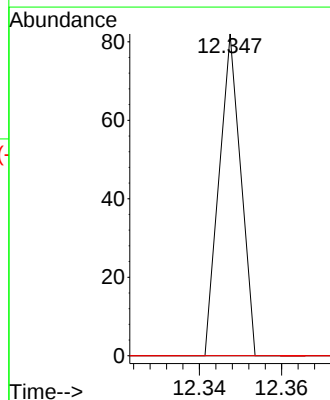
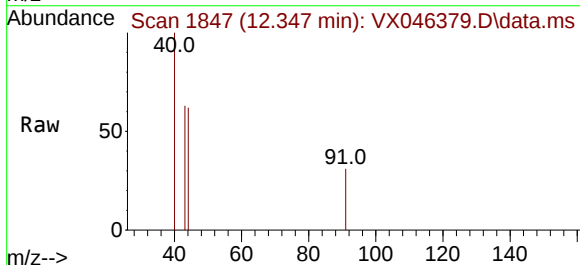
Instrument :
MSVOA_X
ClientSampleId :
TP-02-MHF

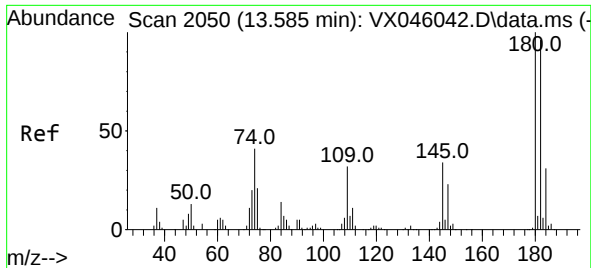
Tgt Ion:146 Resp: 138
Ion Ratio Lower Upper
146 100
111 0.0 21.3 63.9#
148 0.0 31.9 95.5#



#89
n-Butylbenzene
Concen: 0.010 ug/l
RT: 12.347 min Scan# 1847
Delta R.T. 0.018 min
Lab File: VX046379.D
Acq: 28 May 2025 12:42

Tgt Ion: 91 Resp: 30
Ion Ratio Lower Upper
91 100
92 0.0 26.9 80.7#
134 0.0 11.8 35.3#

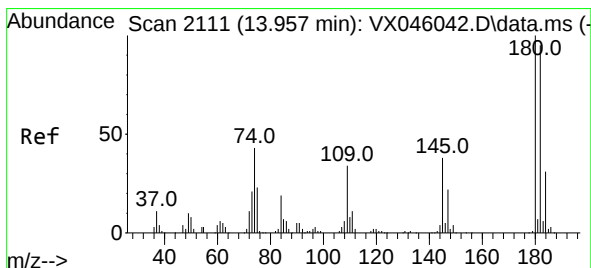
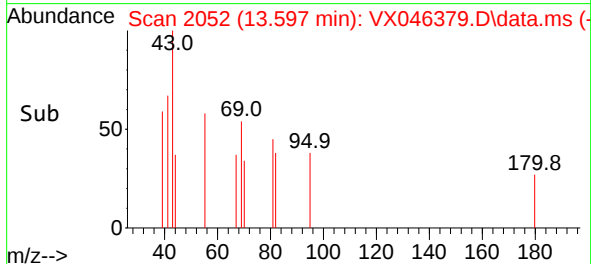
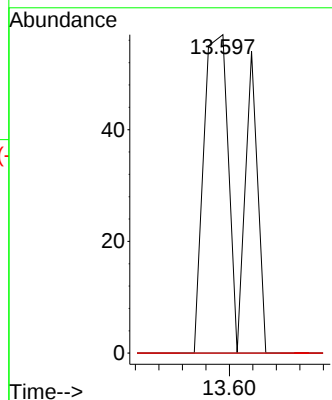
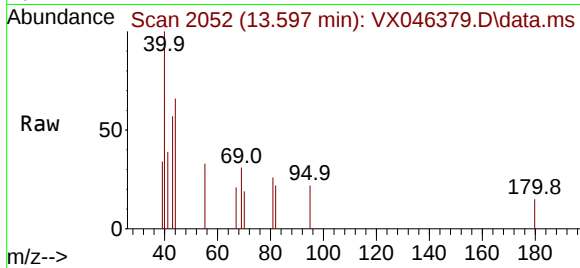




#93
 1,2,4-Trichlorobenzene
 Concen: 0.064 ug/l
 RT: 13.597 min Scan# 2052
 Delta R.T. 0.012 min
 Lab File: VX046379.D
 Acq: 28 May 2025 12:42

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-02-MHF

Tgt Ion:180 Resp: 61
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 17.1 51.2#



#96
 1,2,3-Trichlorobenzene
 Concen: 0.066 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. 0.006 min
 Lab File: VX046379.D
 Acq: 28 May 2025 12:42

Tgt Ion:180 Resp: 65
 Ion Ratio Lower Upper
 180 100
 182 76.9 47.8 143.3
 145 0.0 18.1 54.3#

