

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052825\
 Data File : VX046380.D
 Acq On : 28 May 2025 13:06
 Operator : JC/MD
 Sample : Q2128-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP03-MHM

Quant Time: May 29 03:35:11 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)

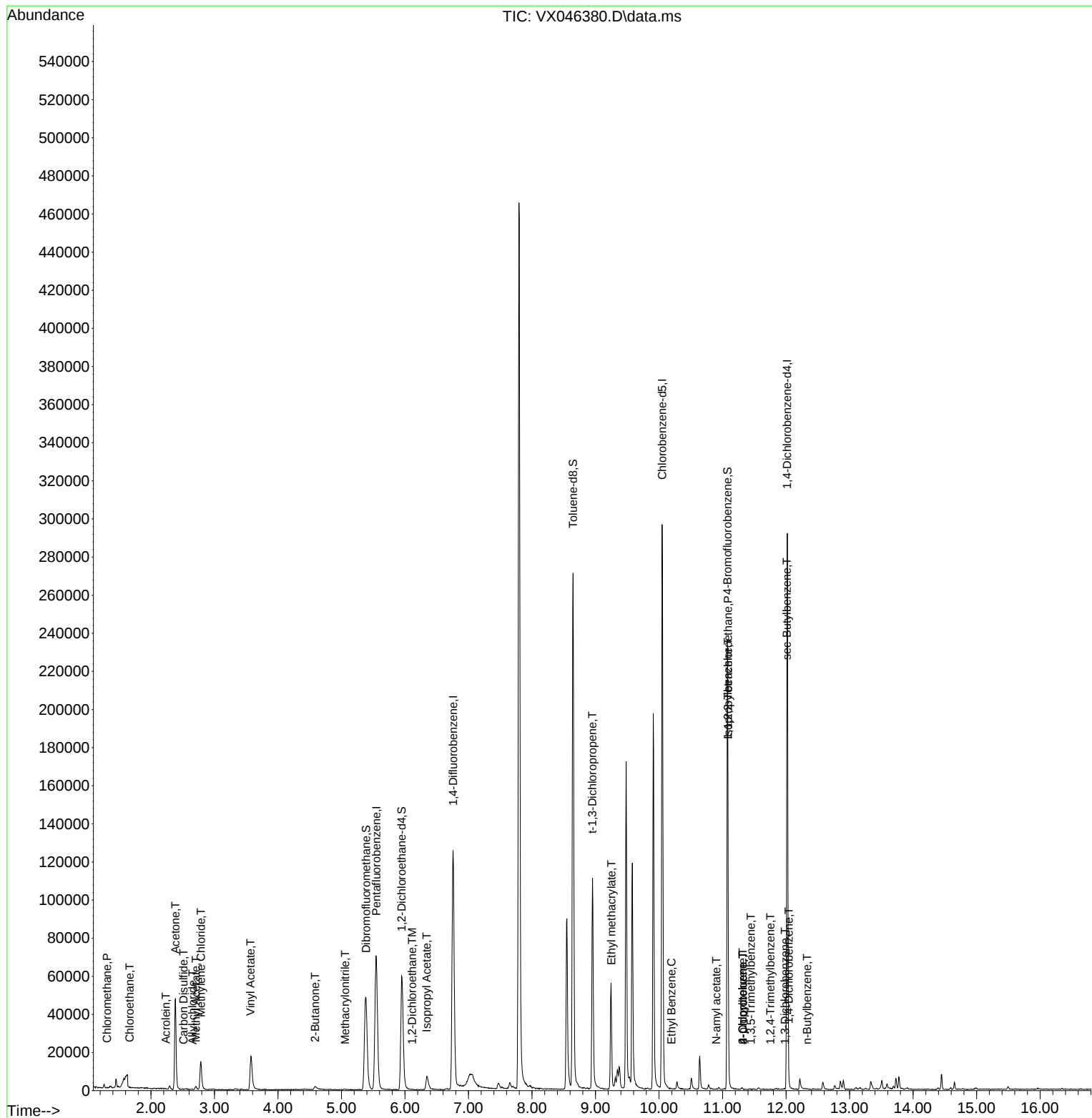
Internal Standards						
1) Pentafluorobenzene	5.550	168	58821	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	120109	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116923	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	52090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	60849	55.488	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.980%			
35) Dibromofluoromethane	5.385	113	44100	50.988	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.980%			
50) Toluene-d8	8.647	98	155280	51.871	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.740%			
62) 4-Bromofluorobenzene	11.079	95	61105	53.214	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.420%			
Target Compounds						Qvalue
3) Chloromethane	1.307	50	40	0.046	ug/l #	43
6) Chloroethane	1.666	64	37	0.085	ug/l #	44
13) Acrolein	2.233	56	33	0.188	ug/l #	15
14) Allyl chloride	2.654	41	205	0.154	ug/l #	21
16) Acetone	2.386	43	52340	119.038	ug/l	99
17) Carbon Disulfide	2.514	76	106	0.064	ug/l #	76
18) Methyl Acetate	2.709	43	2219	2.175	ug/l	95
20) Methylene Chloride	2.788	84	6698	7.949	ug/l	94
23) Vinyl Acetate	3.568	43	164	0.072	ug/l #	74
25) 2-Butanone	4.587	43	4140	6.486	ug/l	92
41) Methacrylonitrile	5.056	41	122	0.162	ug/l #	33
42) 1,2-Dichloroethane	6.111	62	22	0.015	ug/l #	78
43) Isopropyl Acetate	6.342	43	10592	4.836	ug/l	98
53) t-1,3-Dichloropropene	8.952	75	212	0.181	ug/l #	43
56) Ethyl methacrylate	9.250	69	172	0.131	ug/l #	1
67) Ethyl Benzene	10.195	91	23	0.005	ug/l #	45
73) Isopropylbenzene	11.085	105	50	0.012	ug/l #	49
74) N-amyl acetate	10.903	43	171	0.085	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.085	83	83	0.058	ug/l #	3
78) n-propylbenzene	11.317	91	68	0.014	ug/l #	54
79) 2-Chlorotoluene	11.317	91	68	0.022	ug/l #	44
80) 1,3,5-Trimethylbenzene	11.445	105	19	0.006	ug/l #	30
82) 4-Chlorotoluene	11.317	91	68	0.020	ug/l #	48
84) 1,2,4-Trimethylbenzene	11.756	105	139	0.041	ug/l	100
85) sec-Butylbenzene	12.012	105	65	0.016	ug/l #	1
87) 1,3-Dichlorobenzene	11.982	146	26	0.015	ug/l #	24
88) 1,4-Dichlorobenzene	12.043	146	49	0.028	ug/l #	1
89) n-Butylbenzene	12.329	91	51	0.017	ug/l #	33

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

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Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

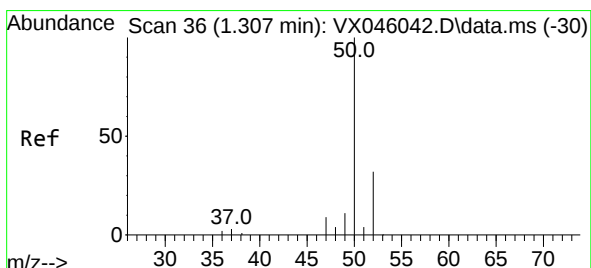
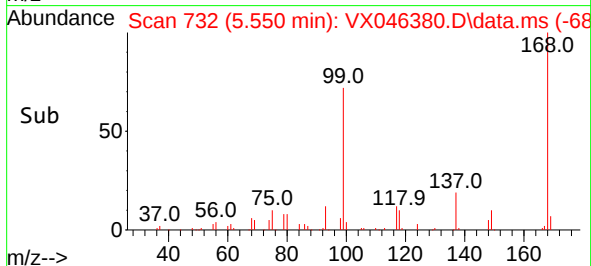
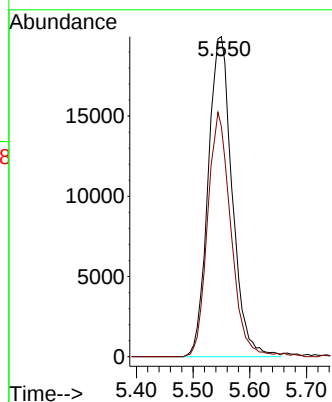
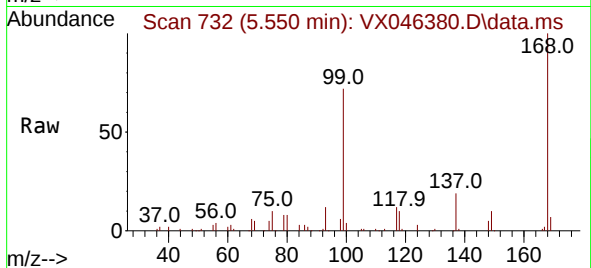




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

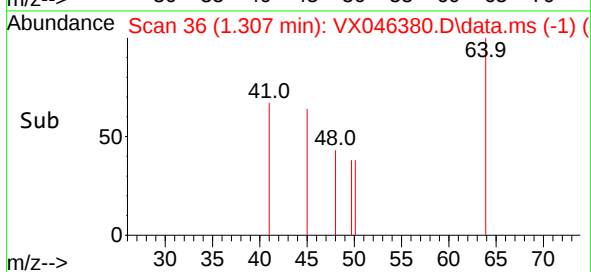
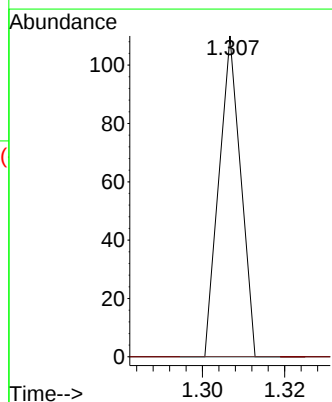
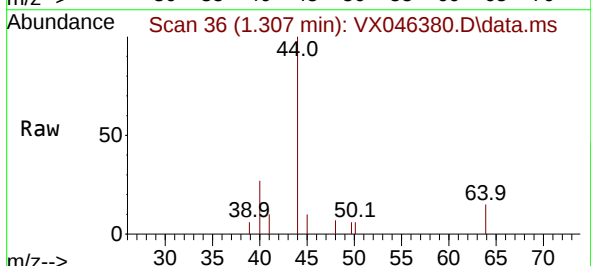
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

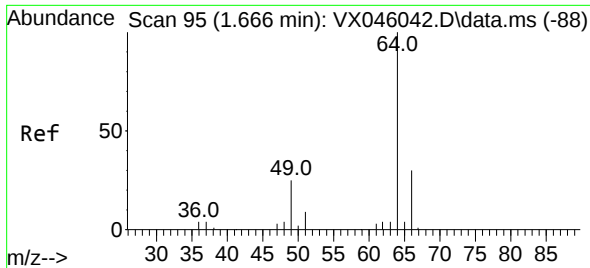
Tgt Ion:168 Resp: 58821
Ion Ratio Lower Upper
168 100
99 72.0 54.9 82.3



#3
Chloromethane
Concen: 0.046 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 50 Resp: 40
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

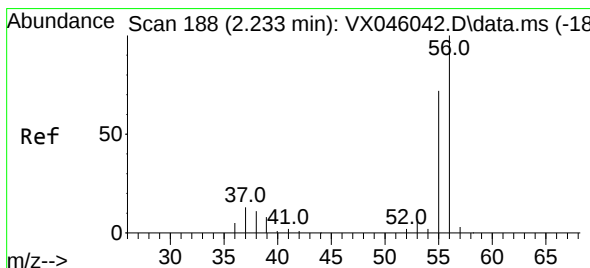
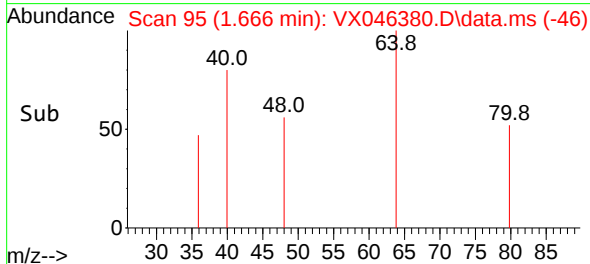
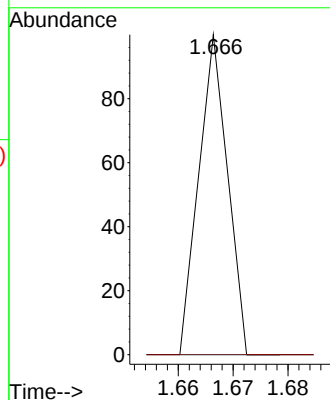
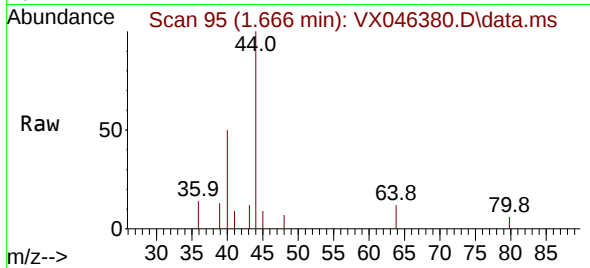




#6
Chloroethane
Concen: 0.085 ug/l
RT: 1.666 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

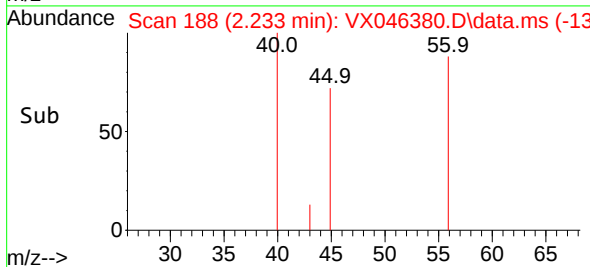
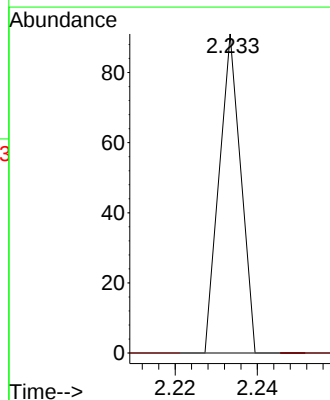
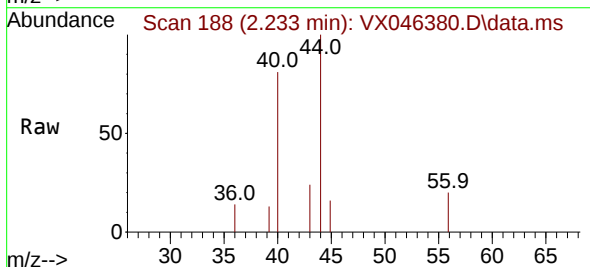
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

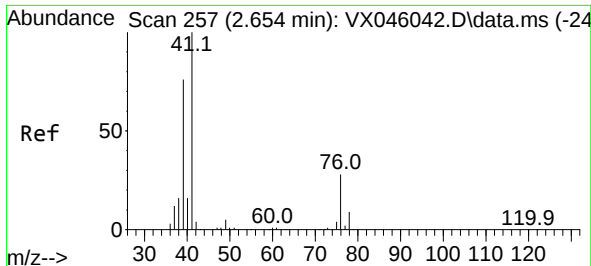
Tgt Ion: 64 Resp: 37
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#



#13
Acrolein
Concen: 0.188 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 56 Resp: 33
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

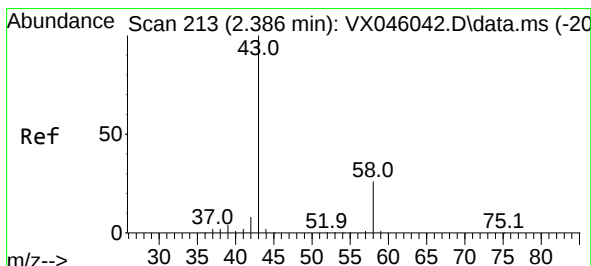
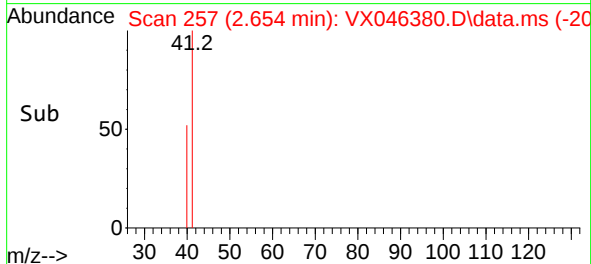
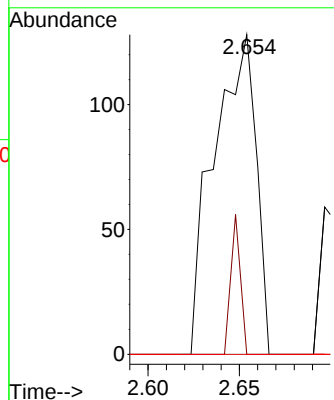
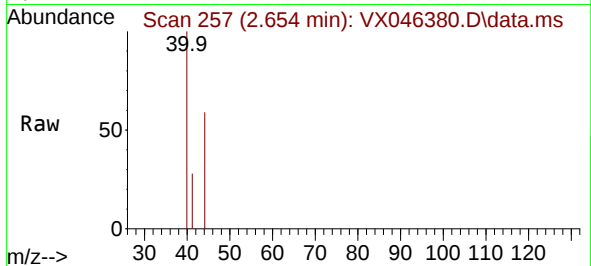




#14
 Allyl chloride
 Concen: 0.154 ug/l
 RT: 2.654 min Scan# 213
 Delta R.T. 0.000 min
 Lab File: VX046380.D
 Acq: 28 May 2025 13:06

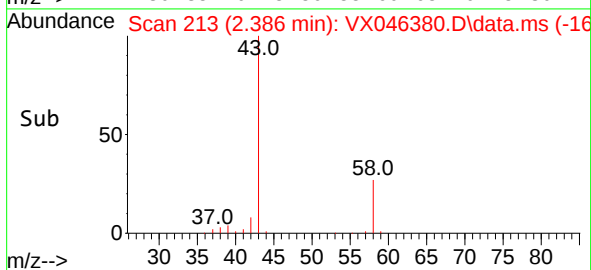
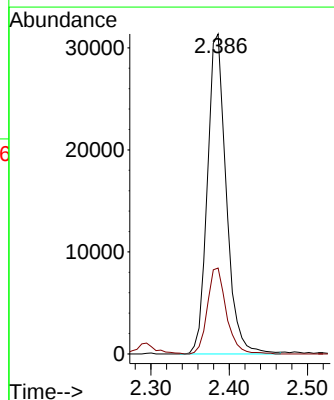
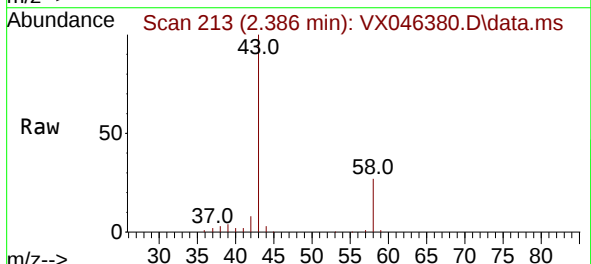
Instrument :
 MSVOA_X
 ClientSampleId :
 TP03-MHM

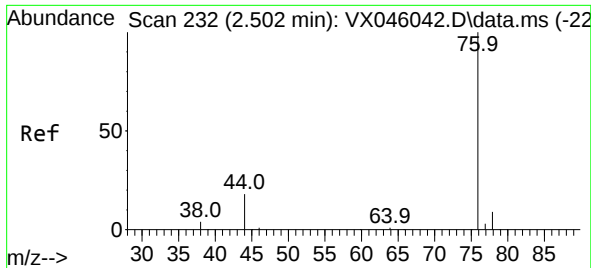
Tgt Ion: 41 Resp: 205
 Ion Ratio Lower Upper
 41 100
 39 0.0 60.6 90.8#
 76 0.0 24.9 37.3#



#16
 Acetone
 Concen: 119.038 ug/l
 RT: 2.386 min Scan# 213
 Delta R.T. 0.000 min
 Lab File: VX046380.D
 Acq: 28 May 2025 13:06

Tgt Ion: 43 Resp: 52340
 Ion Ratio Lower Upper
 43 100
 58 26.8 21.2 31.8

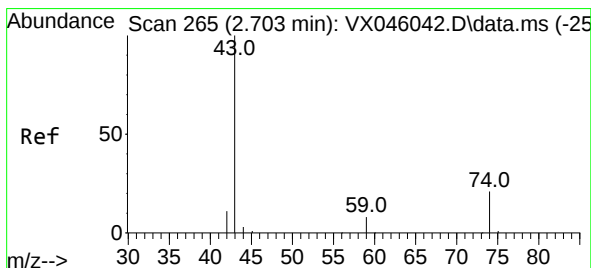
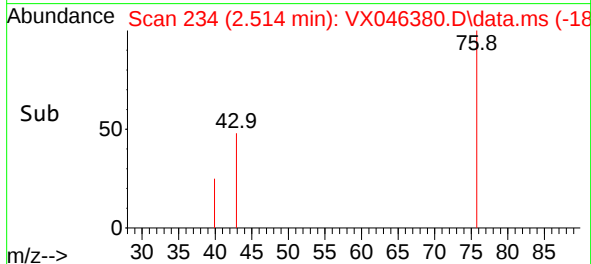
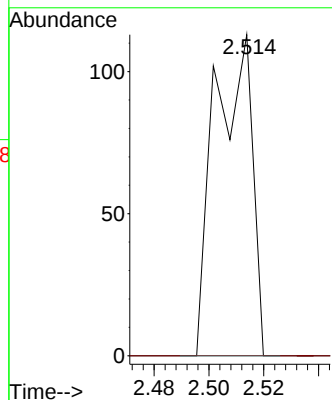
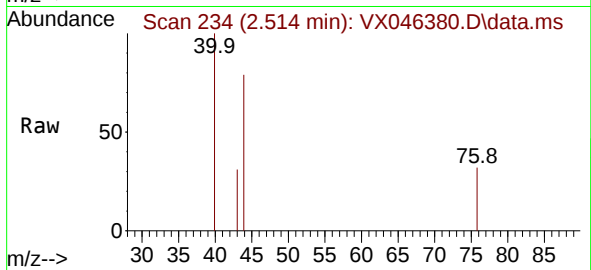




#17
Carbon Disulfide
Concen: 0.064 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

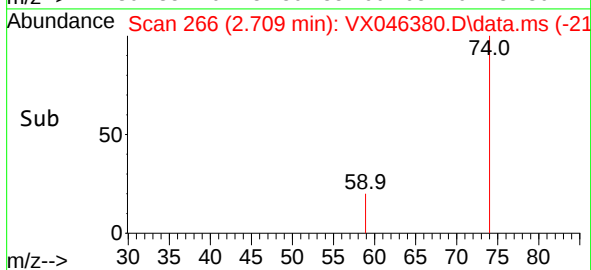
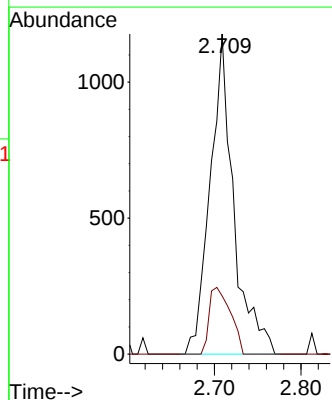
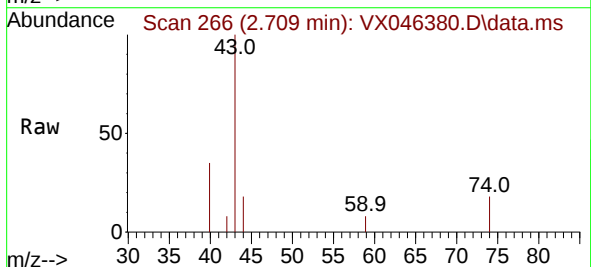
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

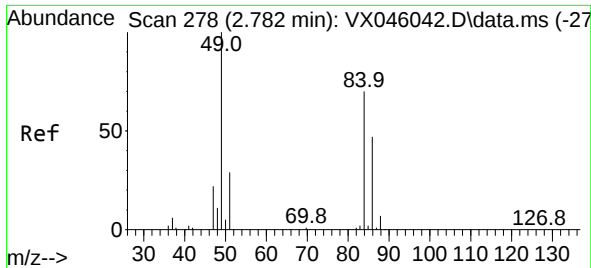
Tgt Ion: 76 Resp: 106
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 2.175 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 43 Resp: 2219
Ion Ratio Lower Upper
43 100
74 18.8 16.7 25.1



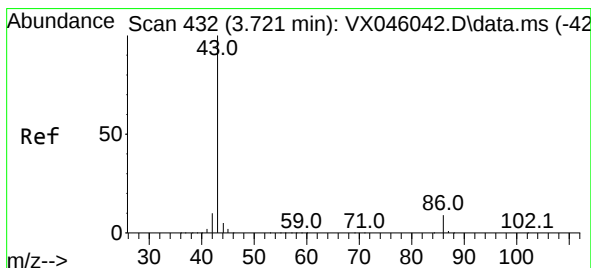
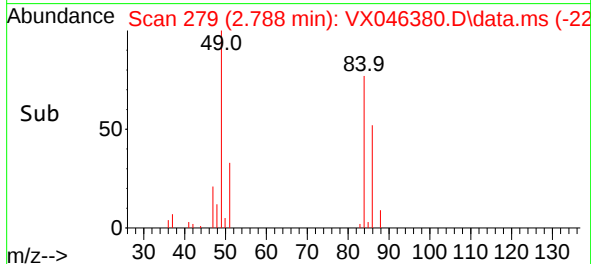
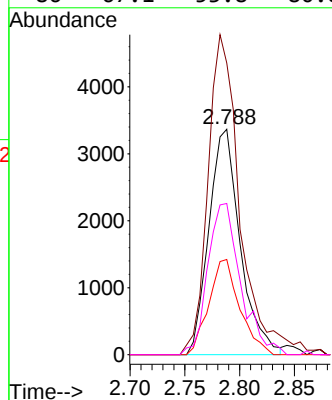
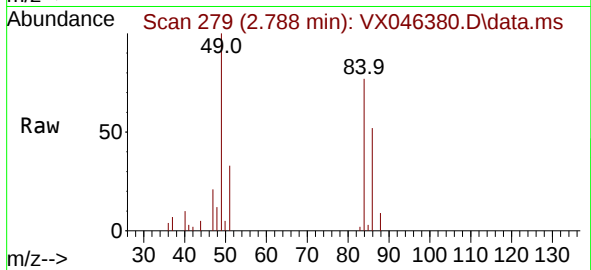


#20
Methylene Chloride
Concen: 7.949 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

Tgt Ion: 84 Resp: 6698

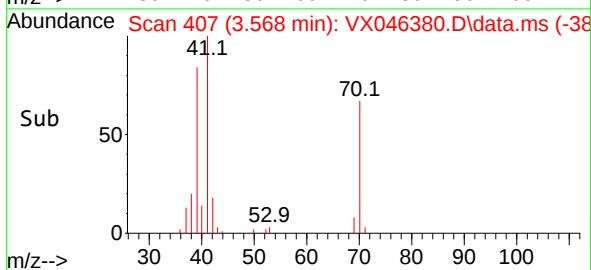
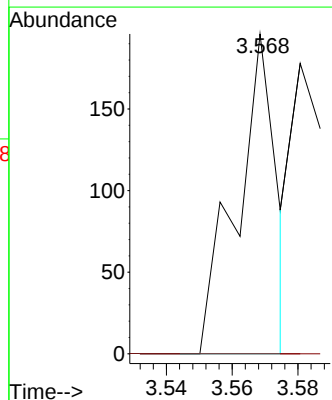
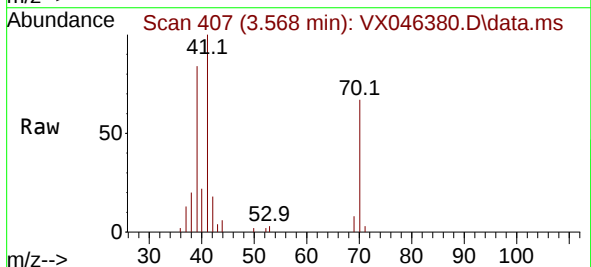
Ion	Ratio	Lower	Upper
84	100		
49	129.4	113.9	170.9
51	42.2	33.5	50.3
86	67.1	53.8	80.8

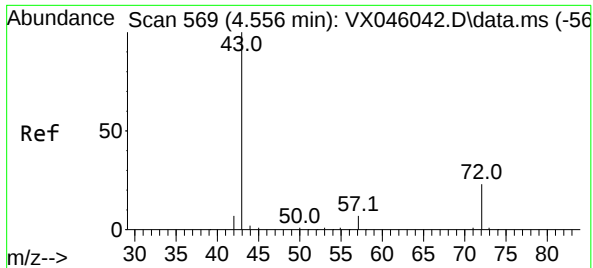


#23
Vinyl Acetate
Concen: 0.072 ug/l
RT: 3.568 min Scan# 407
Delta R.T. -0.152 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 43 Resp: 164

Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#





#25

2-Butanone

Concen: 6.486 ug/l

RT: 4.587 min Scan# 51

Delta R.T. 0.030 min

Lab File: VX046380.D

Acq: 28 May 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

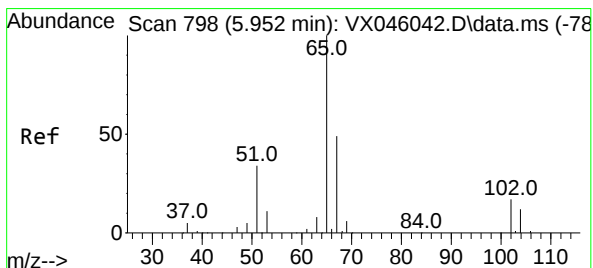
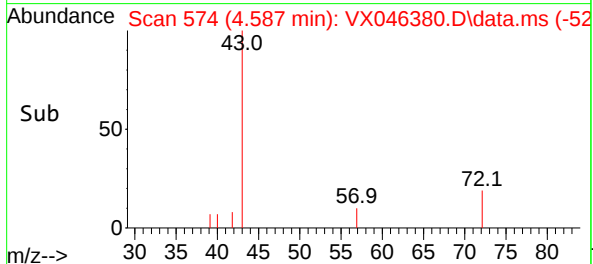
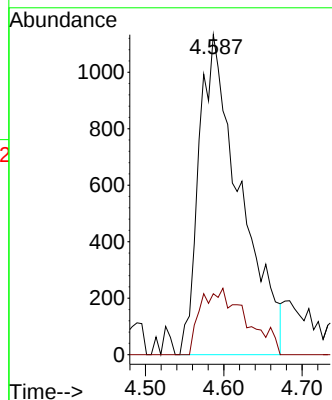
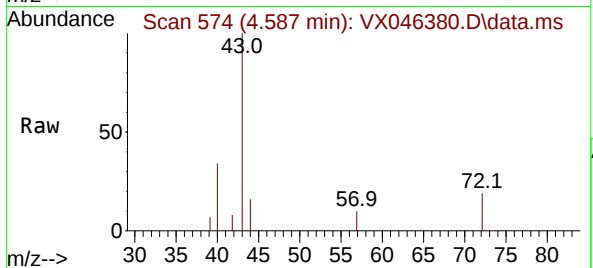
TP03-MHM

Tgt Ion: 43 Resp: 4140

Ion Ratio Lower Upper

43 100

72 19.1 18.4 27.6



#33

1,2-Dichloroethane-d4

Concen: 55.488 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.006 min

Lab File: VX046380.D

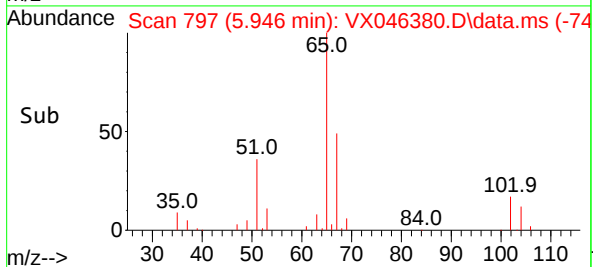
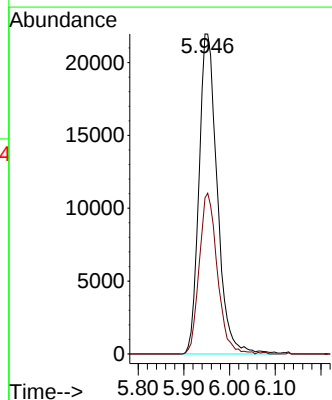
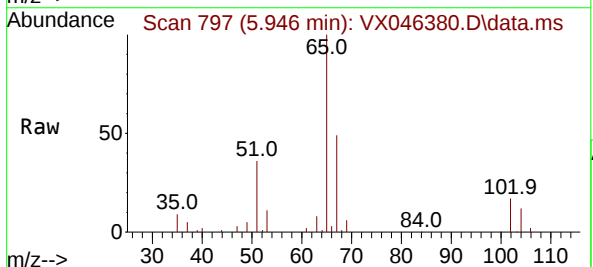
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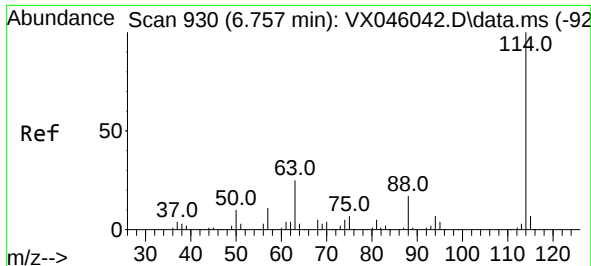
Tgt Ion: 65 Resp: 60849

Ion Ratio Lower Upper

65 100

67 49.8 0.0 99.0

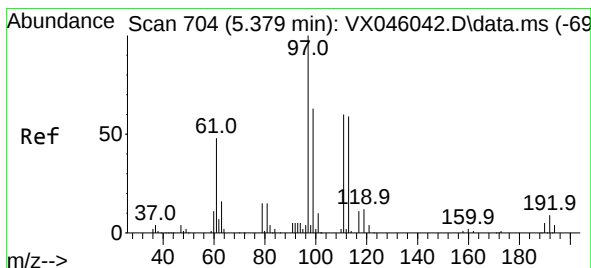
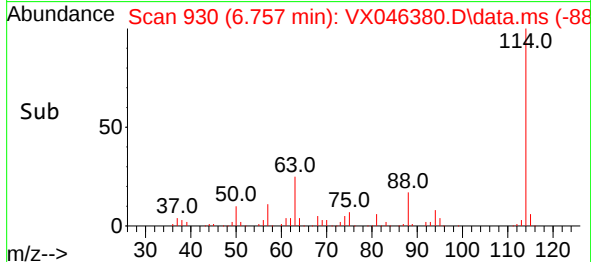
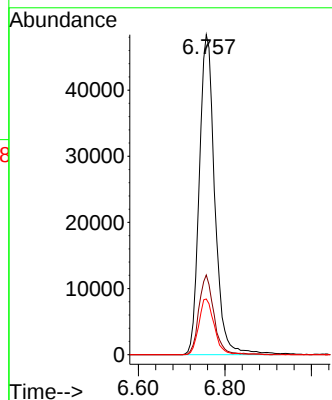
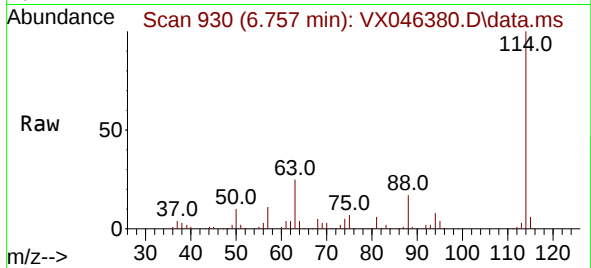




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

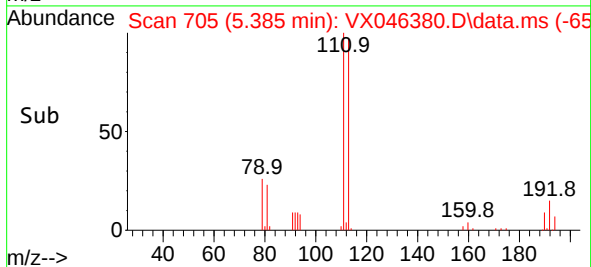
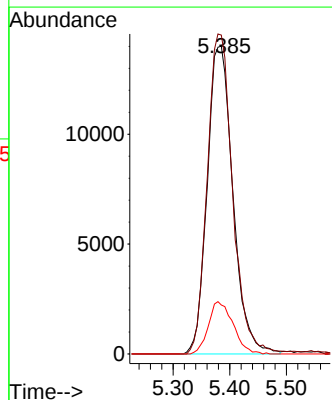
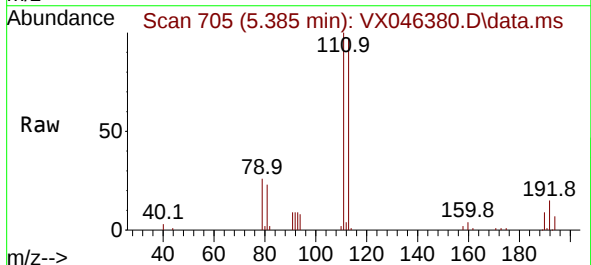
Instrument :
MSVOA_X
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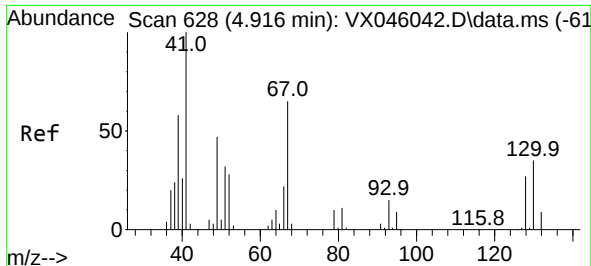
Tgt Ion:114 Resp: 120109
Ion Ratio Lower Upper
114 100
63 24.9 0.0 49.2
88 17.4 0.0 33.6



#35
Dibromofluoromethane
Concen: 50.988 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion:113 Resp: 44100
Ion Ratio Lower Upper
113 100
111 102.4 83.1 124.7
192 16.3 13.3 19.9

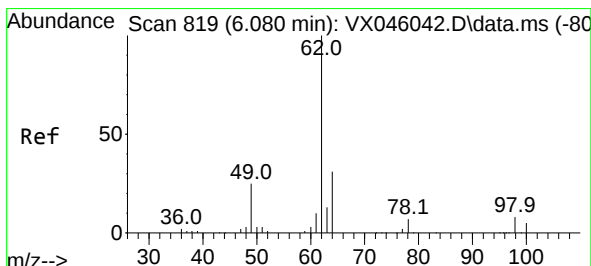
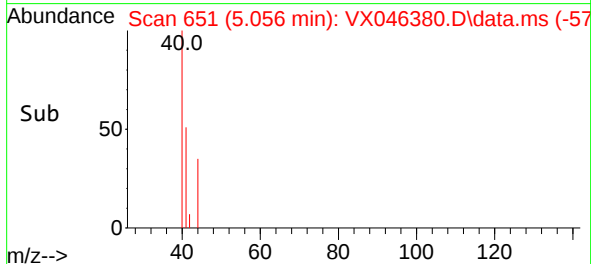
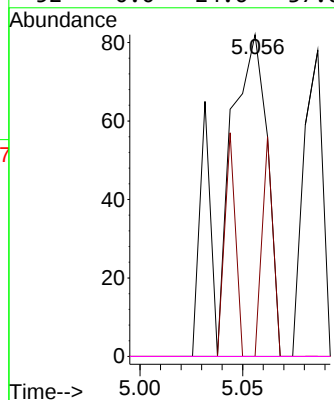
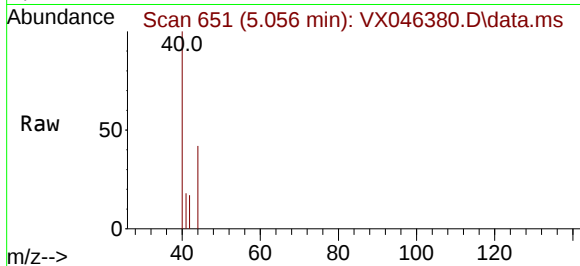




#41
Methacrylonitrile
Concen: 0.162 ug/l
RT: 5.056 min Scan# 61
Delta R.T. 0.140 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

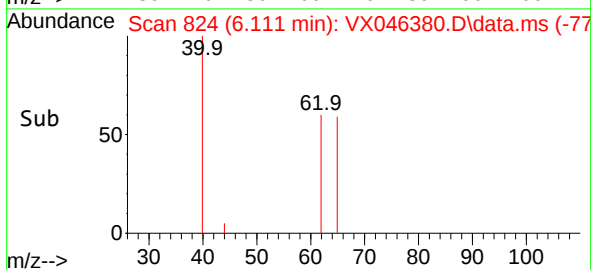
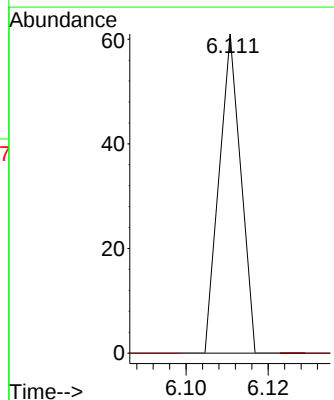
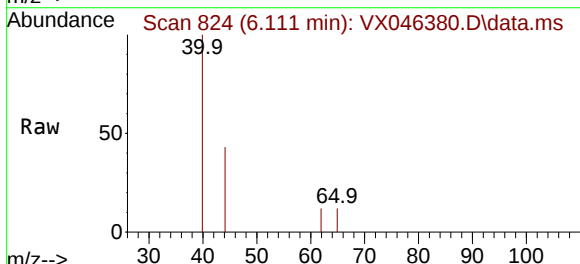
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

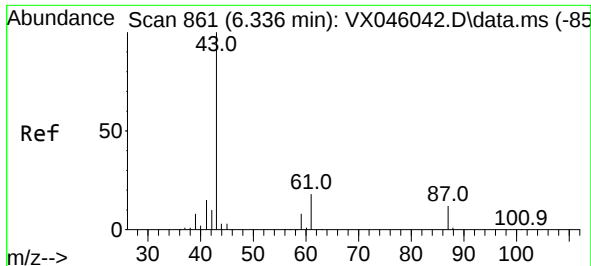
Tgt Ion:	41	Resp:	122
Ion	Ratio	Lower	Upper
41	100		
39	16.4	47.2	70.8#
67	0.0	50.7	76.1#
52	0.0	24.6	37.0#



#42
1,2-Dichloroethane
Concen: 0.015 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.030 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion:	62	Resp:	22
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	15.2

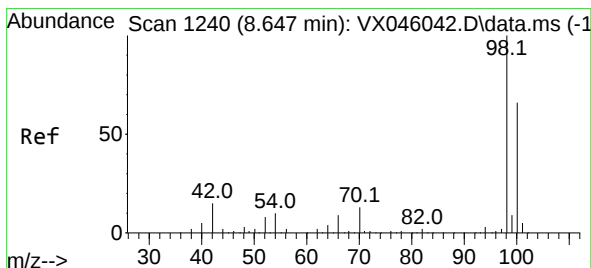
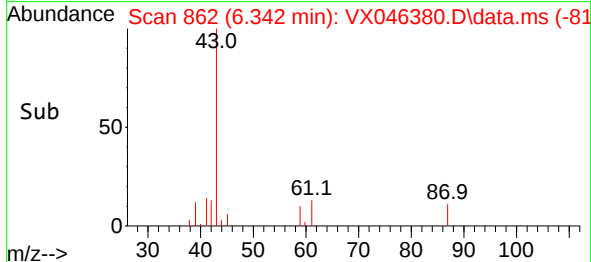
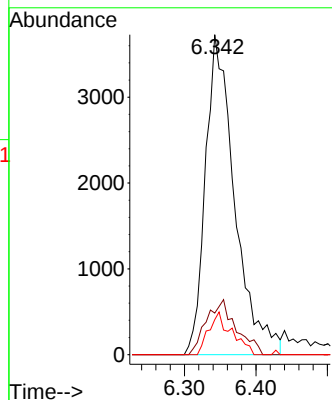
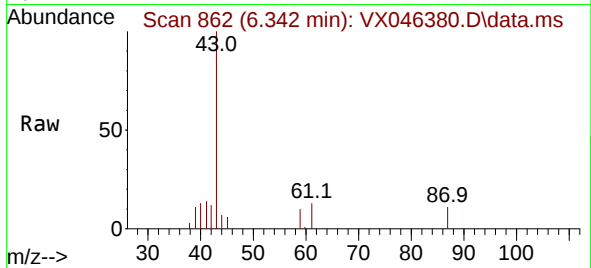




#43
Isopropyl Acetate
Concen: 4.836 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

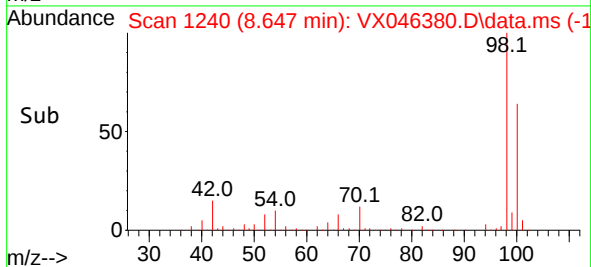
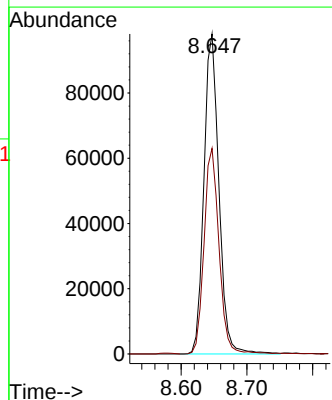
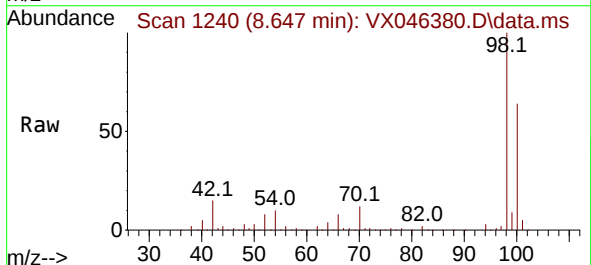
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

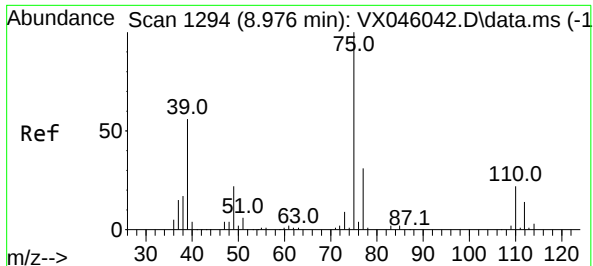
Tgt Ion: 43 Resp: 10592
Ion Ratio Lower Upper
43 100
61 17.5 14.3 21.5
87 10.4 9.5 14.3



#50
Toluene-d8
Concen: 51.871 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 98 Resp: 155280
Ion Ratio Lower Upper
98 100
100 64.2 53.5 80.3





#53

t-1,3-Dichloropropene

Concen: 0.181 ug/l

RT: 8.952 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX046380.D

Acq: 28 May 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

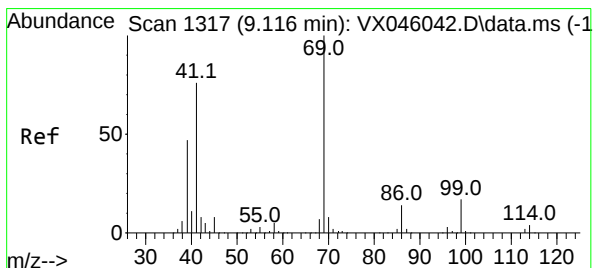
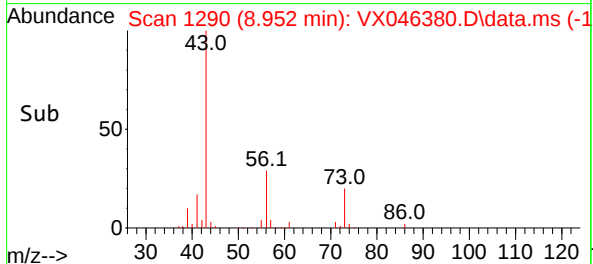
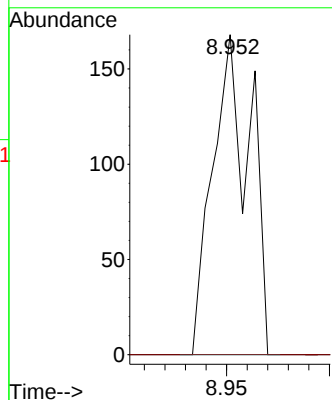
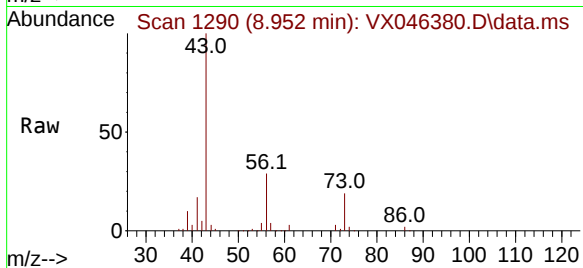
TP03-MHM

Tgt Ion: 75 Resp: 212

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#



#56

Ethyl methacrylate

Concen: 0.131 ug/l

RT: 9.250 min Scan# 1339

Delta R.T. 0.134 min

Lab File: VX046380.D

Acq: 28 May 2025 13:06

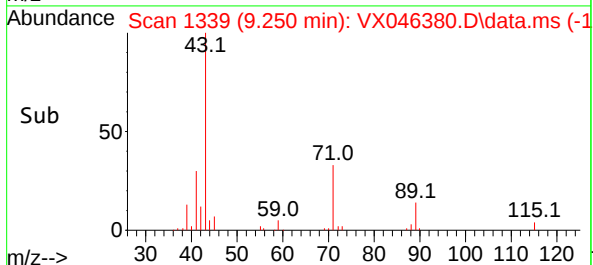
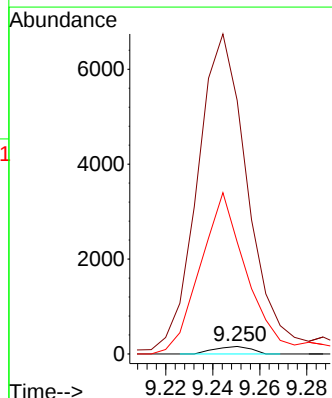
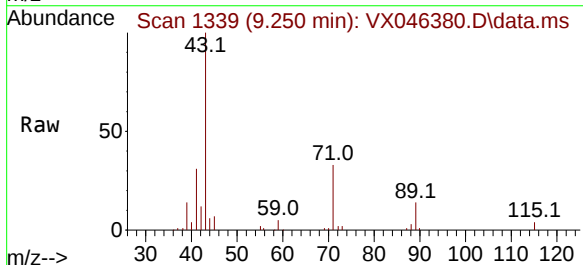
Tgt Ion: 69 Resp: 172

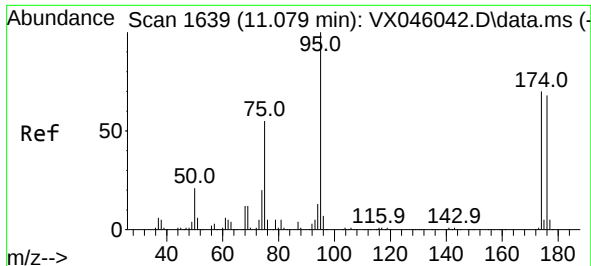
Ion Ratio Lower Upper

69 100

41 5950.0 60.8 91.2#

39 2841.3 39.0 58.6#

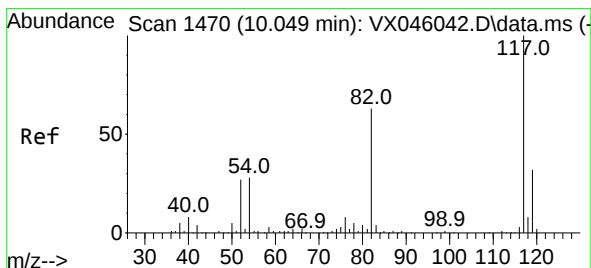
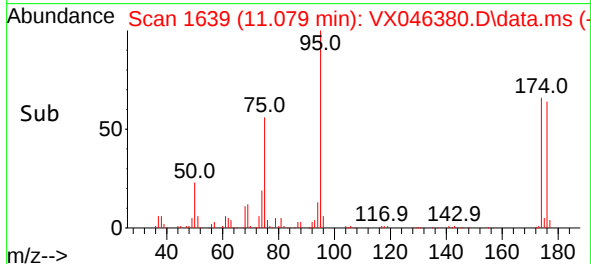
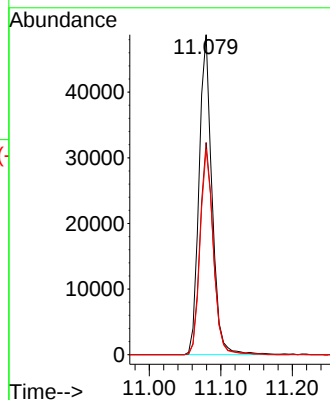
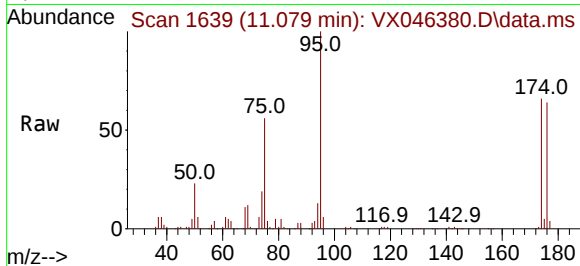




#62
4-Bromofluorobenzene
Concen: 53.214 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

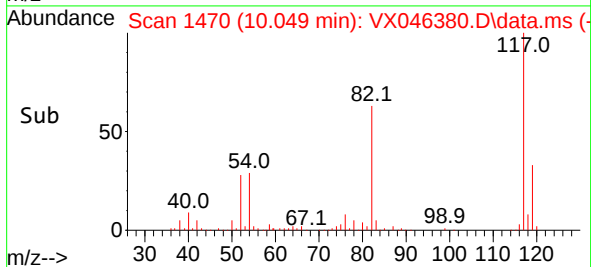
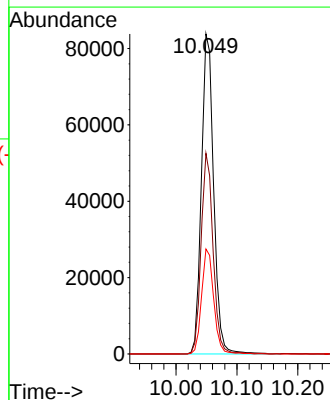
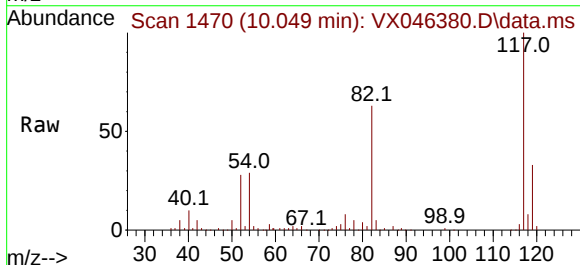
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

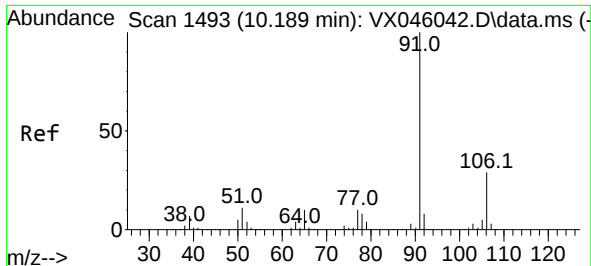
Tgt Ion: 95 Resp: 61105
Ion Ratio Lower Upper
95 100
174 67.5 0.0 135.8
176 65.3 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 117 Resp: 116923
Ion Ratio Lower Upper
117 100
82 62.7 50.6 76.0
119 32.8 25.8 38.6

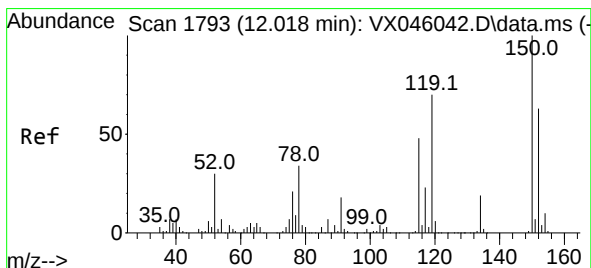
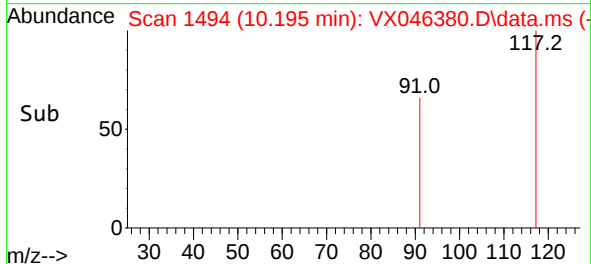
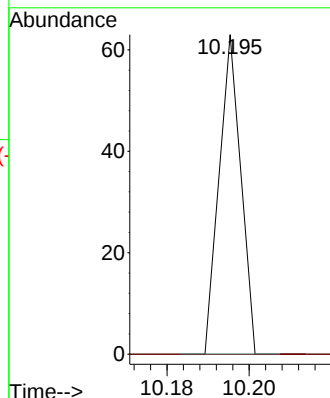
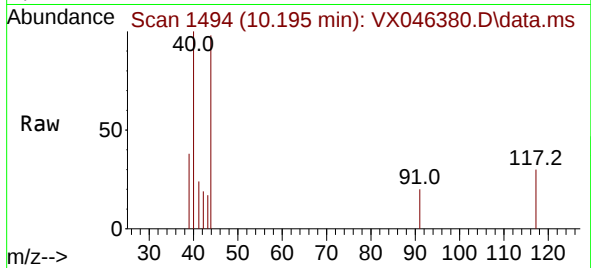




#67
Ethyl Benzene
Concen: 0.005 ug/l
RT: 10.195 min Scan# 1493
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

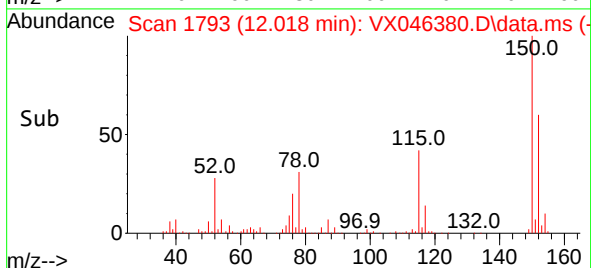
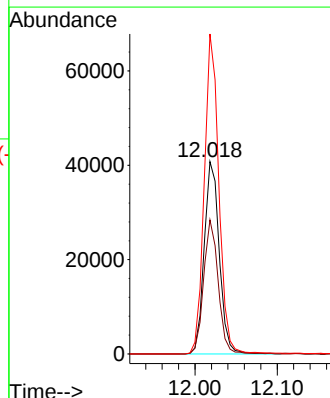
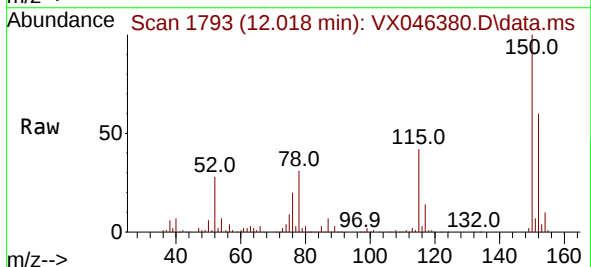
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

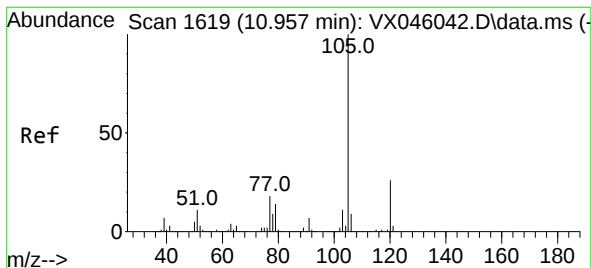
Tgt Ion: 91 Resp: 23
Ion Ratio Lower Upper
91 100
106 0.0 23.4 35.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion:152 Resp: 52090
Ion Ratio Lower Upper
152 100
115 67.3 46.9 140.7
150 160.9 0.0 351.0





#73

Isopropylbenzene

Concen: 0.012 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.128 min

Lab File: VX046380.D

Acq: 28 May 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

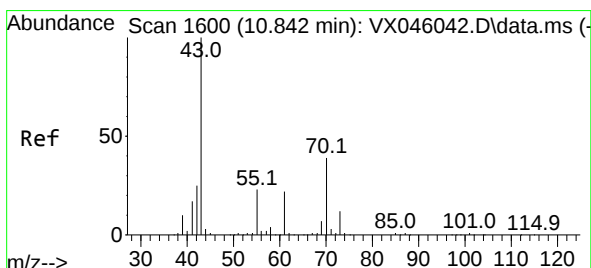
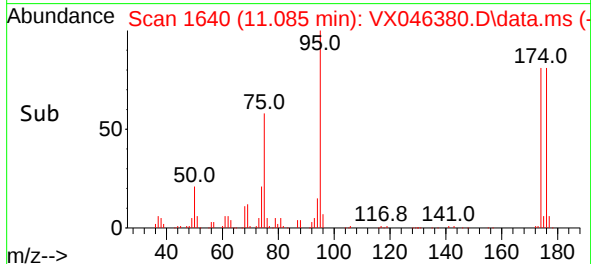
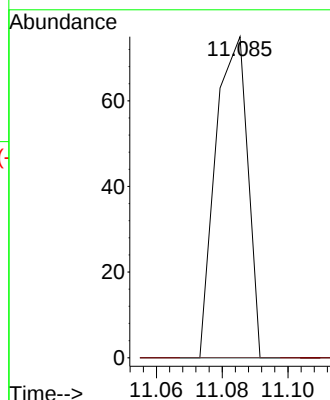
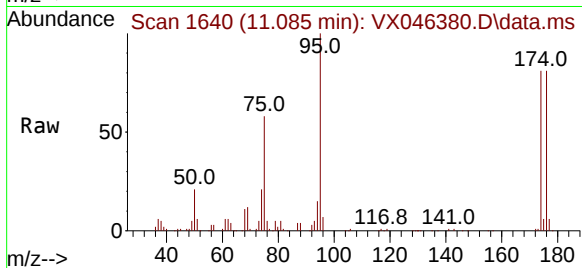
TP03-MHM

Tgt Ion:105 Resp: 50

Ion Ratio Lower Upper

105 100

120 0.0 12.8 38.4#



#74

N-ethyl acetate

Concen: 0.085 ug/l

RT: 10.903 min Scan# 1610

Delta R.T. 0.061 min

Lab File: VX046380.D

Acq: 28 May 2025 13:06

Tgt Ion: 43 Resp: 171

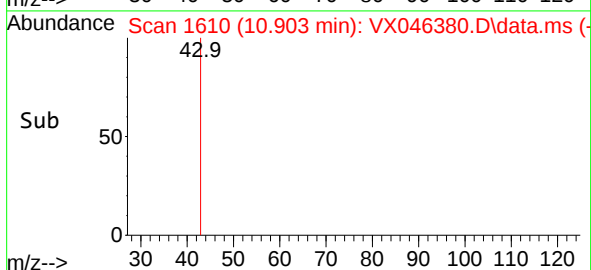
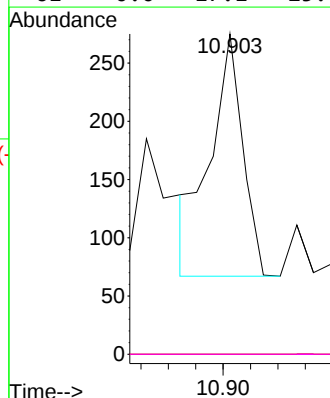
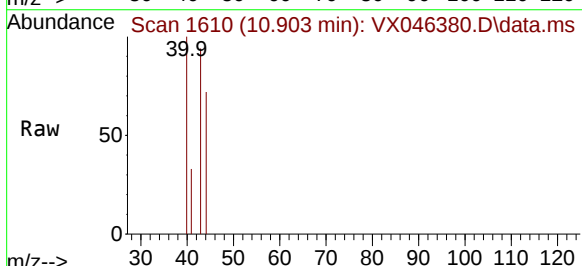
Ion Ratio Lower Upper

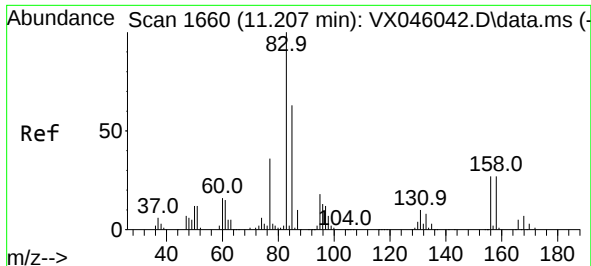
43 100

70 0.0 30.9 46.3#

55 0.0 18.7 28.1#

61 0.0 17.1 25.7#

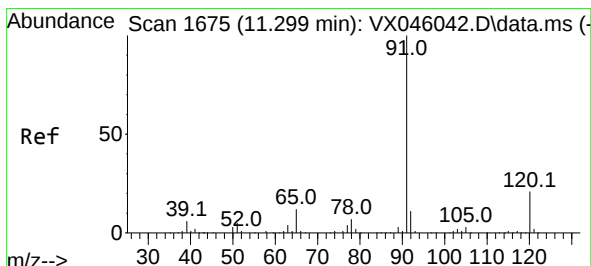
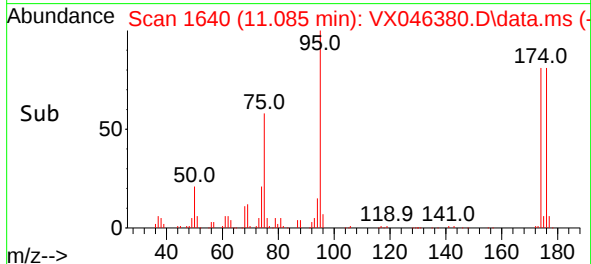
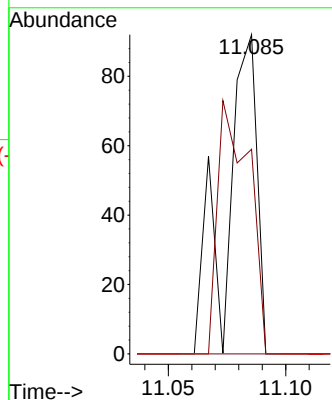
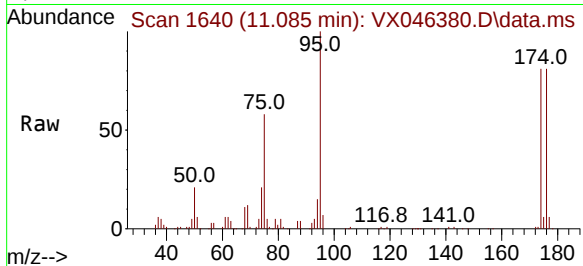




#75
1,1,2,2-Tetrachloroethane
Concen: 0.058 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.122 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

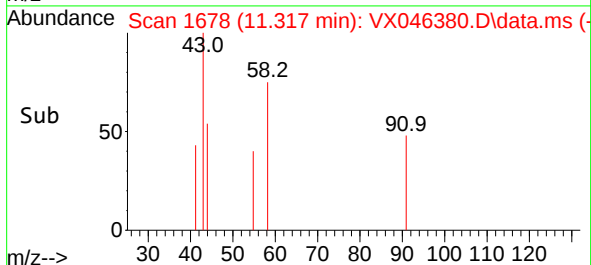
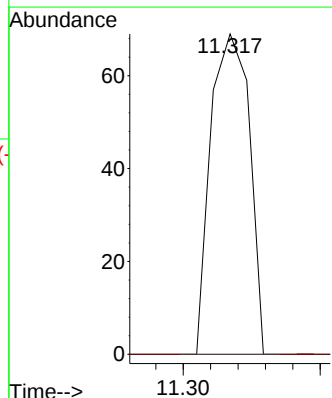
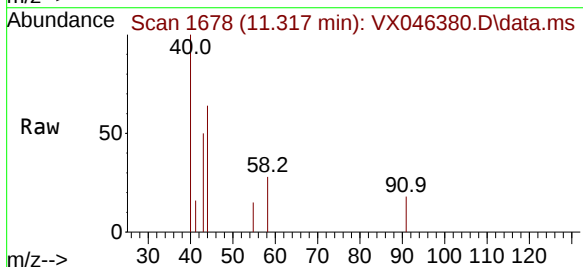
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

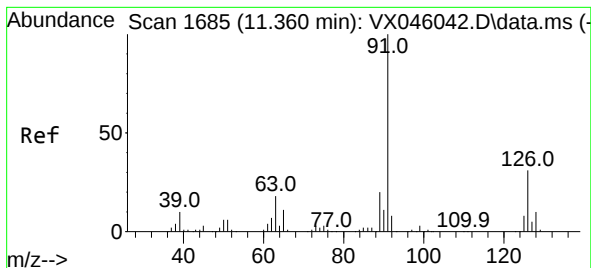
Tgt Ion: 83 Resp: 83
Ion Ratio Lower Upper
83 100
131 81.9 5.0 14.9#
85 0.0 31.9 95.7#



#78
n-propylbenzene
Concen: 0.014 ug/l
RT: 11.317 min Scan# 1678
Delta R.T. 0.018 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 91 Resp: 68
Ion Ratio Lower Upper
91 100
120 0.0 10.8 32.4#

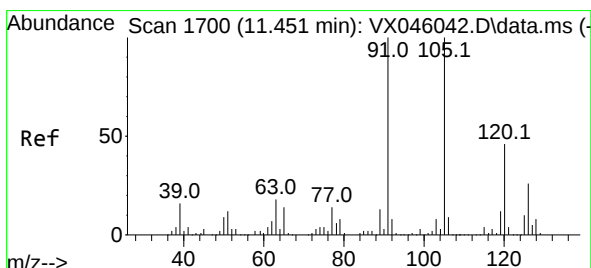
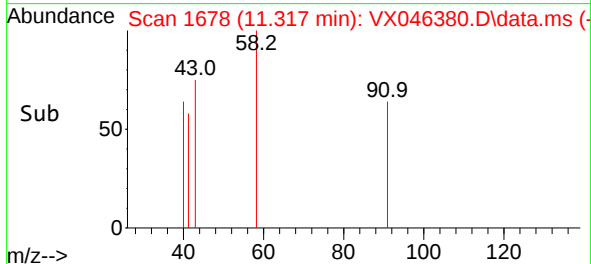
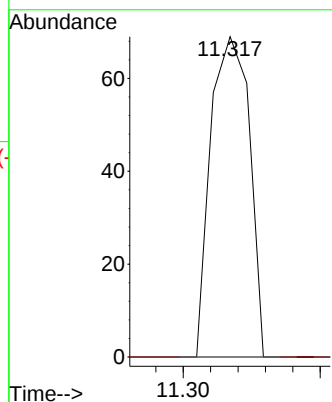
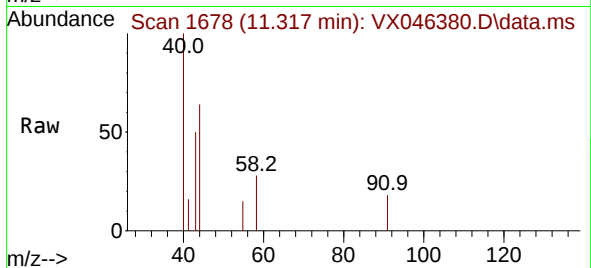




#79
2-Chlorotoluene
Concen: 0.022 ug/l
RT: 11.317 min Scan# 1678
Delta R.T. -0.043 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

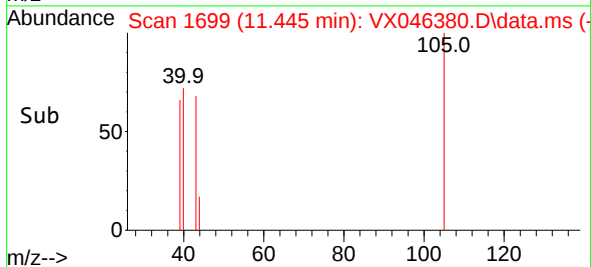
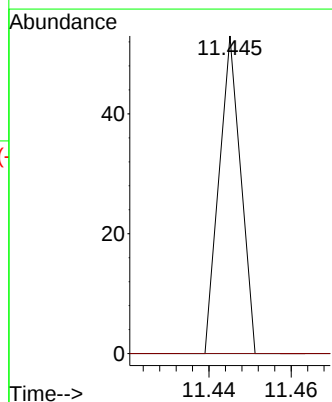
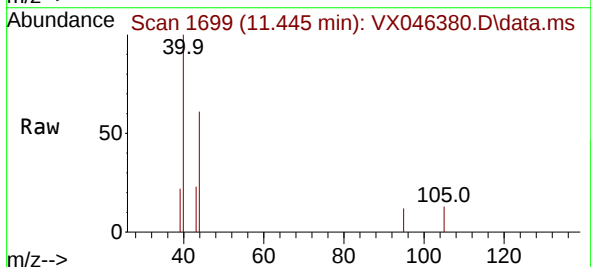
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

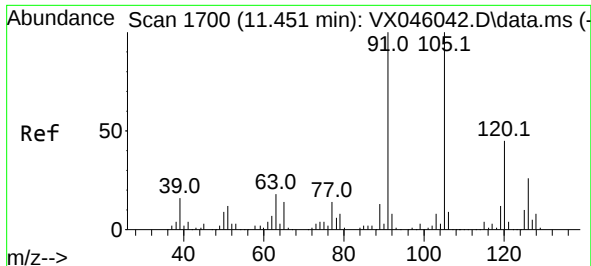
Tgt Ion: 91 Resp: 68
Ion Ratio Lower Upper
91 100
126 0.0 15.6 46.7#



#80
1,3,5-Trimethylbenzene
Concen: 0.006 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 105 Resp: 19
Ion Ratio Lower Upper
105 100
120 0.0 23.1 69.2#

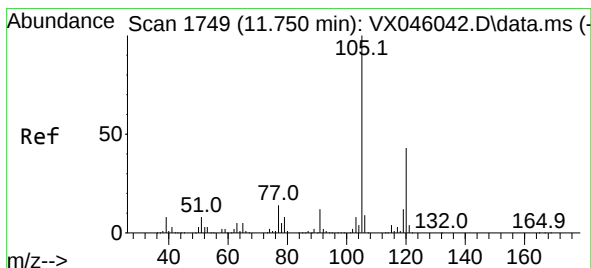
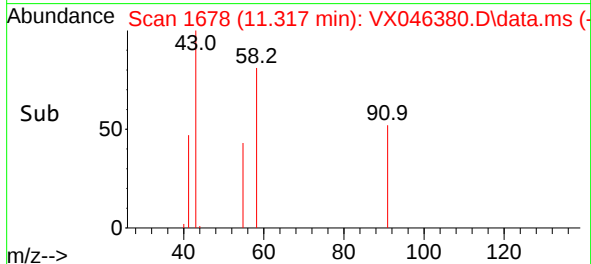
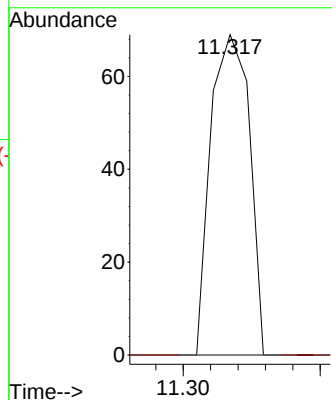
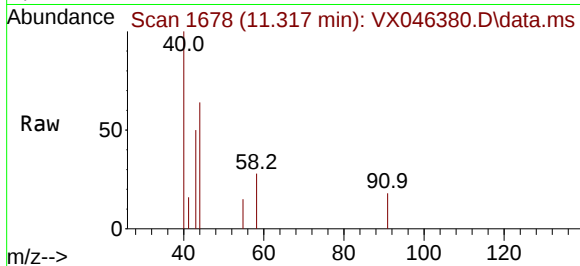




#82
4-Chlorotoluene
Concen: 0.020 ug/l
RT: 11.317 min Scan# 11
Delta R.T. -0.134 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

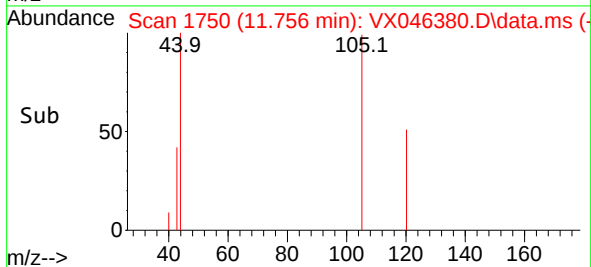
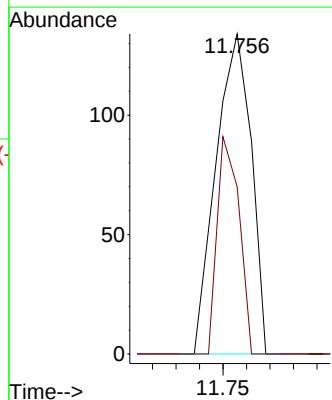
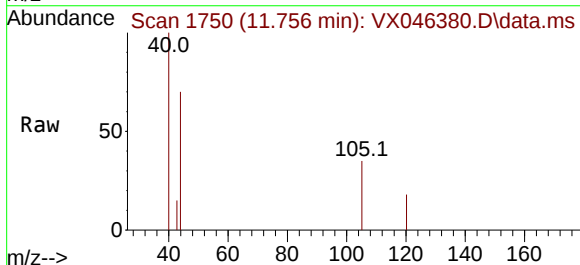
Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

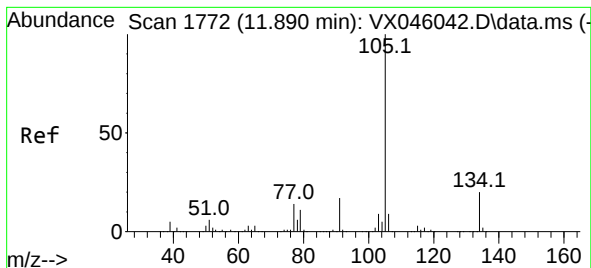
Tgt Ion: 91 Resp: 68
Ion Ratio Lower Upper
91 100
126 0.0 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.041 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 105 Resp: 139
Ion Ratio Lower Upper
105 100
120 42.4 21.2 63.6





#85

sec-Butylbenzene

Concen: 0.016 ug/l

RT: 12.012 min Scan# 11

Delta R.T. 0.122 min

Lab File: VX046380.D

Acq: 28 May 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

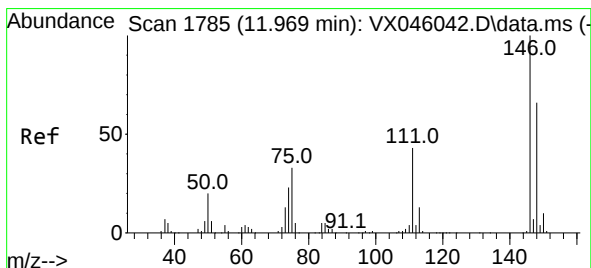
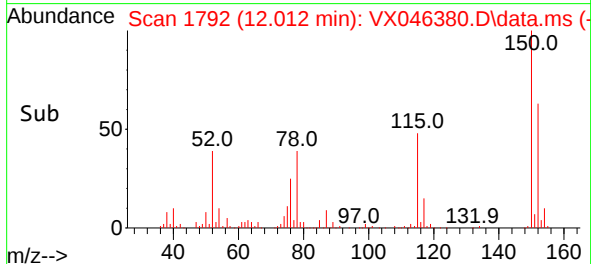
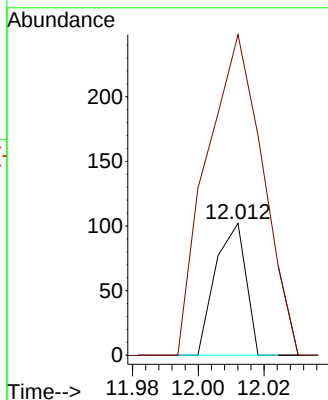
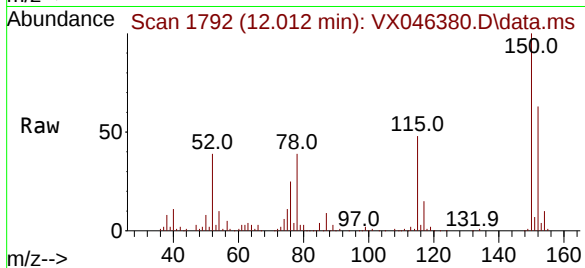
TP03-MHM

Tgt Ion:105 Resp: 65

Ion Ratio Lower Upper

105 100

134 452.3 9.7 29.1#



#87

1,3-Dichlorobenzene

Concen: 0.015 ug/l

RT: 11.982 min Scan# 1787

Delta R.T. 0.012 min

Lab File: VX046380.D

Acq: 28 May 2025 13:06

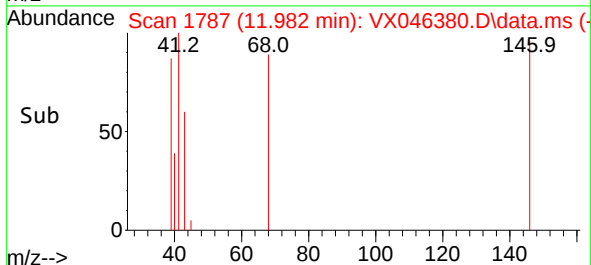
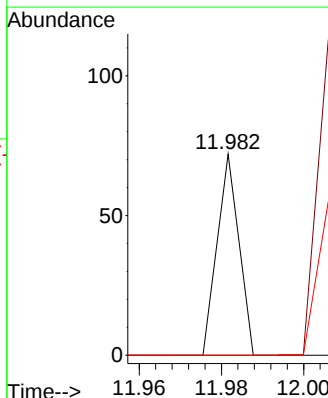
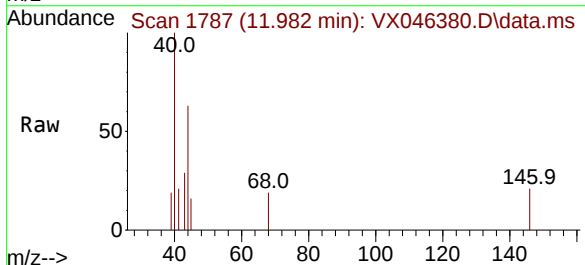
Tgt Ion:146 Resp: 26

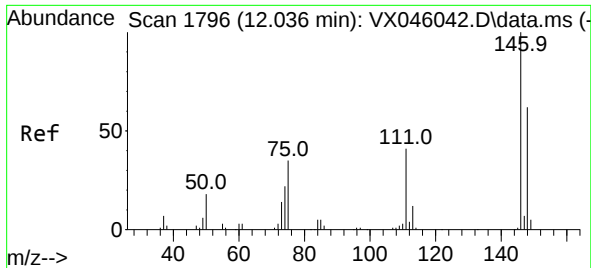
Ion Ratio Lower Upper

146 100

111 0.0 22.1 66.3#

148 0.0 32.1 96.5#

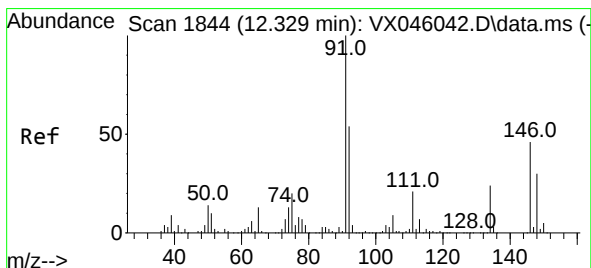
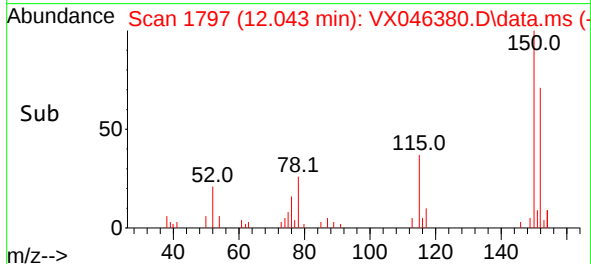
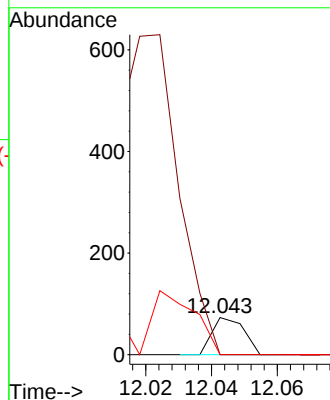
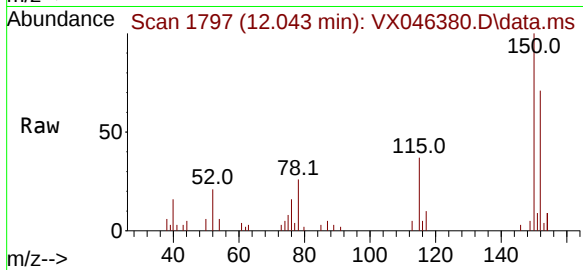




#88
1,4-Dichlorobenzene
Concen: 0.028 ug/l
RT: 12.043 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Instrument :
MSVOA_X
ClientSampleId :
TP03-MHM

Tgt Ion:146 Resp: 49
Ion Ratio Lower Upper
146 100
111 1687.8 21.3 63.9#
148 322.4 31.9 95.5#



#89
n-Butylbenzene
Concen: 0.017 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. 0.000 min
Lab File: VX046380.D
Acq: 28 May 2025 13:06

Tgt Ion: 91 Resp: 51
Ion Ratio Lower Upper
91 100
92 0.0 26.9 80.7#
134 0.0 11.8 35.3#

