

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042825\
 Data File : VX045959.D
 Acq On : 28 Apr 2025 16:13
 Operator : JC/MD
 Sample : Q1892-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-G

Quant Time: Apr 29 01:35:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

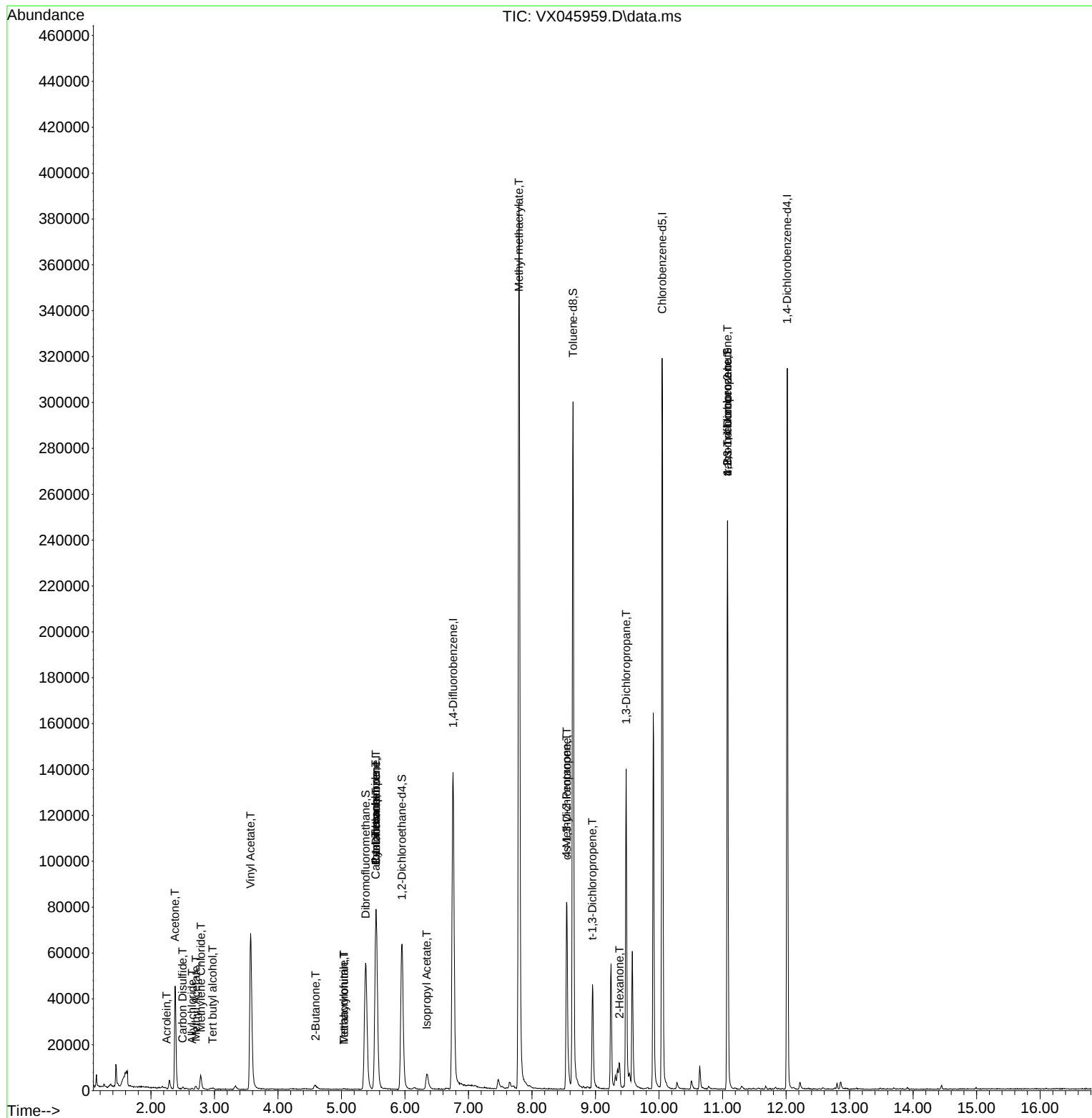
Internal Standards						
1) Pentafluorobenzene	5.544	168	67695	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133090	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	128830	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56232	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66664	53.850	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.700%	
35) Dibromofluoromethane	5.379	113	48226	51.072	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.140%	
50) Toluene-d8	8.647	98	170966	51.872	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.740%	
62) 4-Bromofluorobenzene	11.079	95	65772	54.786	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 109.580%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.971	59	704	4.231	ug/l #	79
13) Acrolein	2.246	56	158	0.690	ug/l #	81
14) Allyl chloride	2.648	41	325	0.211	ug/l #	21
16) Acetone	2.380	43	48447	95.304	ug/l	97
17) Carbon Disulfide	2.496	76	997	0.497	ug/l #	93
18) Methyl Acetate	2.709	43	1808	1.545	ug/l	94
20) Methylene Chloride	2.788	84	2933	3.082	ug/l	87
23) Vinyl Acetate	3.568	43	1151	0.439	ug/l #	74
25) 2-Butanone	4.593	43	4142	5.566	ug/l	93
29) Tetrahydrofuran	5.038	42	205	0.425	ug/l #	35
31) Cyclohexane	5.544	56	1974	1.300	ug/l #	21
36) 1,1-Dichloropropene	5.544	75	6703	5.257	ug/l #	50
38) Carbon Tetrachloride	5.538	117	8049	5.841	ug/l #	17
41) Methacrylonitrile	5.038	41	222	0.262	ug/l #	50
43) Isopropyl Acetate	6.342	43	10816	4.442	ug/l	98
48) Methyl methacrylate	7.793	41	38646	30.737	ug/l #	50
51) 4-Methyl-2-Pentanone	8.543	43	33915	21.009	ug/l #	54
53) t-1,3-Dichloropropene	8.952	75	94	2.352	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	12912	9.225	ug/l #	66
57) 1,3-Dichloropropane	9.482	76	1180	0.722	ug/l #	42
59) 2-Hexanone	9.378	43	9671	8.090	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	37569	27.390	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	37569	92.958	ug/l #	1

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

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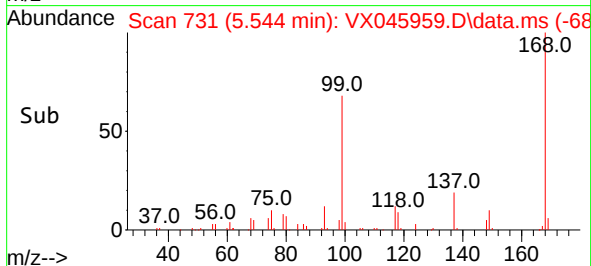
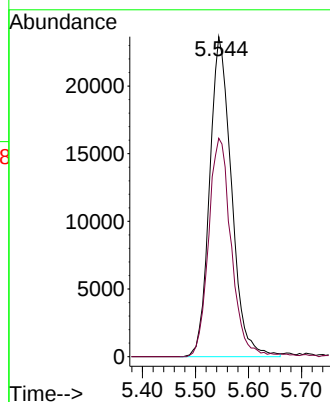
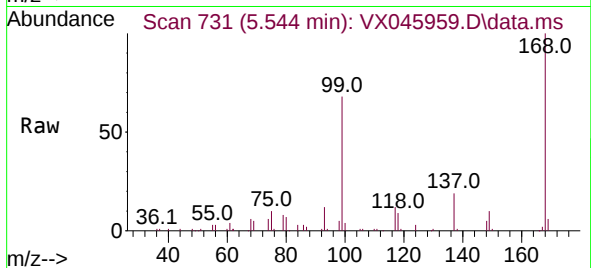




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

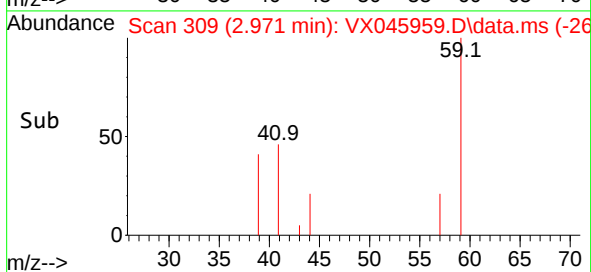
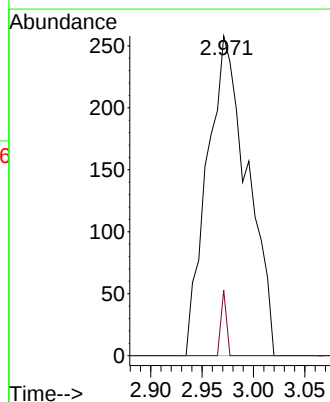
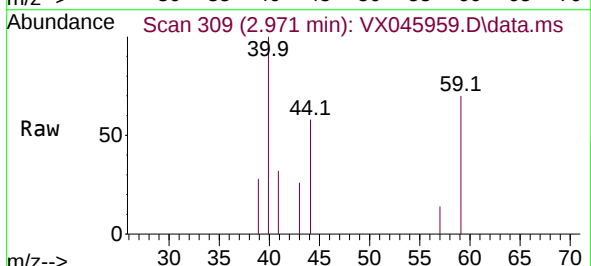
Instrument :
MSVOA_X
ClientSampleId :
MH-G

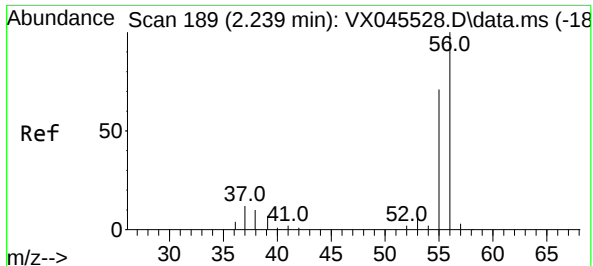
Tgt Ion:168 Resp: 67695
Ion Ratio Lower Upper
168 100
99 68.3 52.3 78.5



#11
Tert butyl alcohol
Concen: 4.231 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 59 Resp: 704
Ion Ratio Lower Upper
59 100
57 2.7 8.6 12.8#





#13

Acrolein

Concen: 0.690 ug/l

RT: 2.246 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX045959.D

Acq: 28 Apr 2025 16:13

Instrument :

MSVOA_X

ClientSampleId :

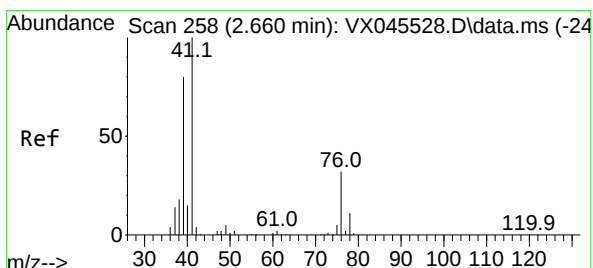
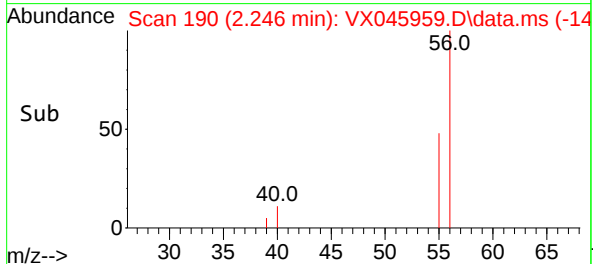
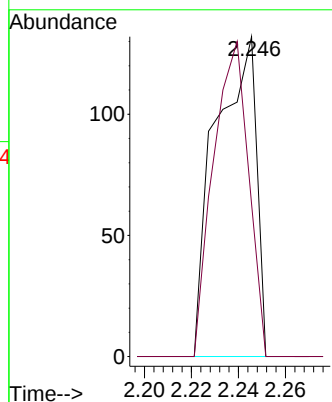
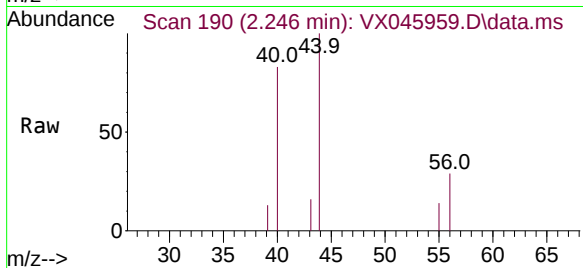
MH-G

Tgt Ion: 56 Resp: 158

Ion Ratio Lower Upper

56 100

55 85.4 56.2 84.2#



#14

Allyl chloride

Concen: 0.211 ug/l

RT: 2.648 min Scan# 256

Delta R.T. -0.012 min

Lab File: VX045959.D

Acq: 28 Apr 2025 16:13

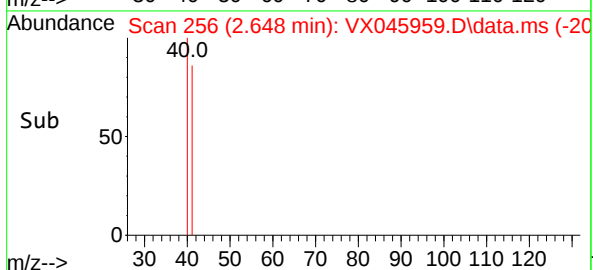
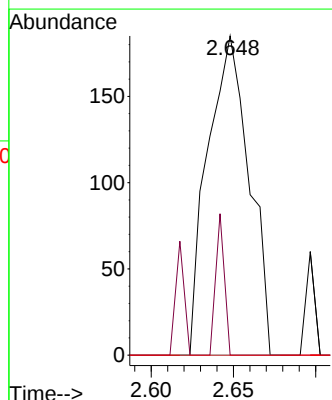
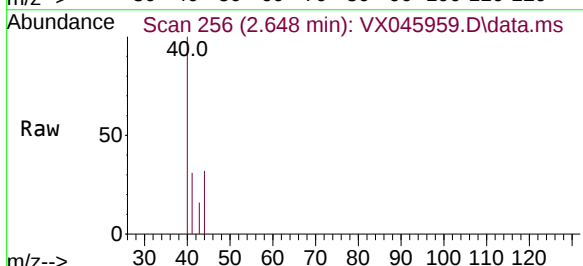
Tgt Ion: 41 Resp: 325

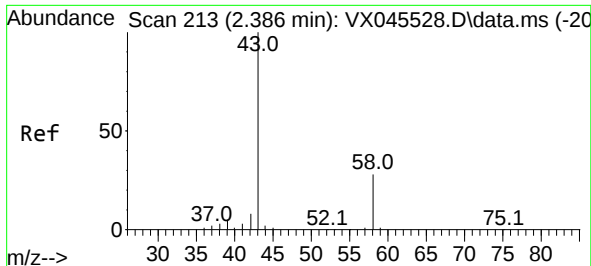
Ion Ratio Lower Upper

41 100

39 0.0 60.2 90.2#

76 0.0 24.6 36.8#

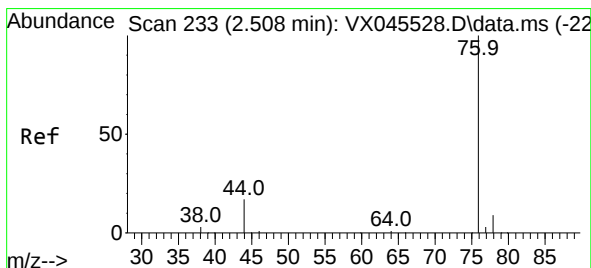
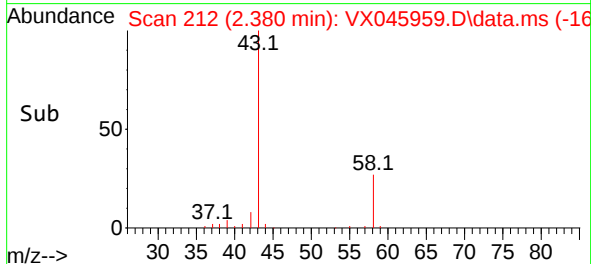
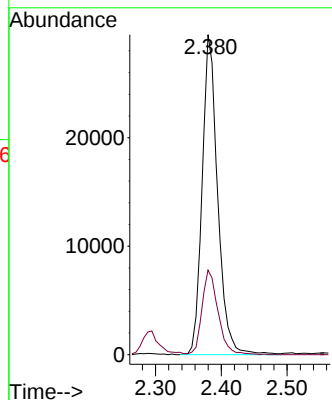
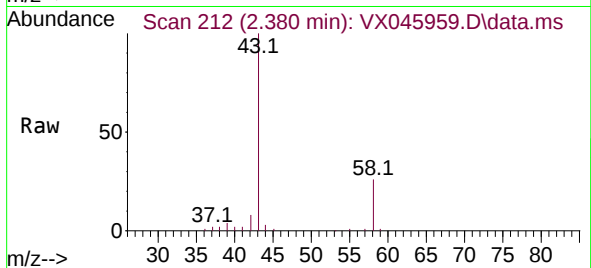




#16
Acetone
Concen: 95.304 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

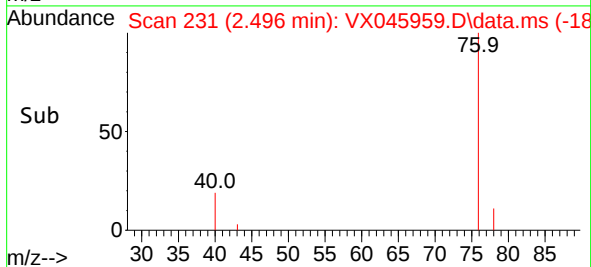
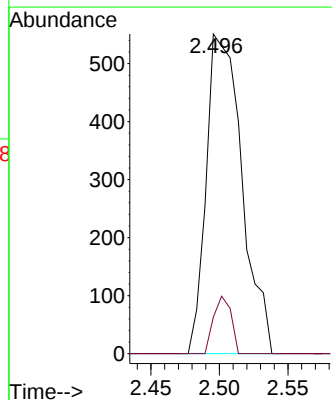
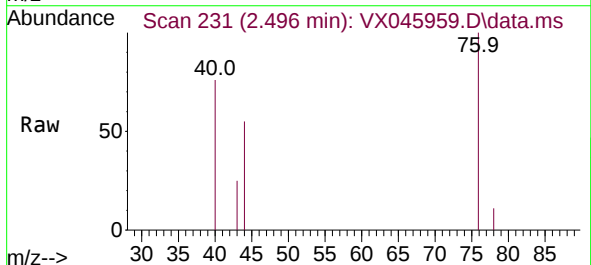
Instrument :
MSVOA_X
ClientSampleId :
MH-G

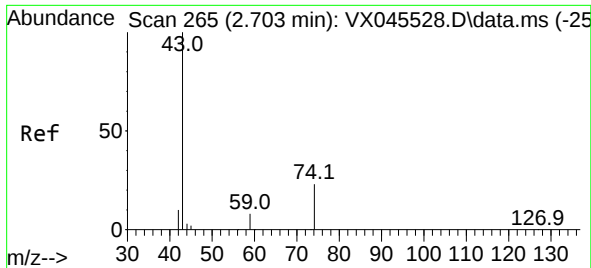
Tgt Ion: 43 Resp: 48447
Ion Ratio Lower Upper
43 100
58 26.5 22.3 33.5



#17
Carbon Disulfide
Concen: 0.497 ug/l
RT: 2.496 min Scan# 231
Delta R.T. -0.012 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 76 Resp: 997
Ion Ratio Lower Upper
76 100
78 11.4 7.0 10.6#

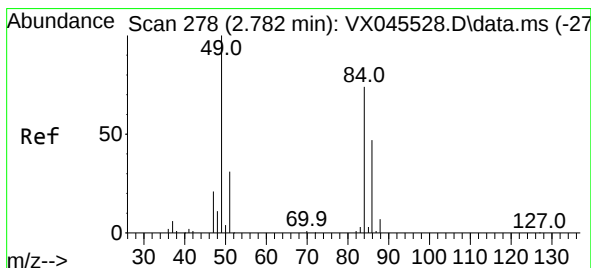
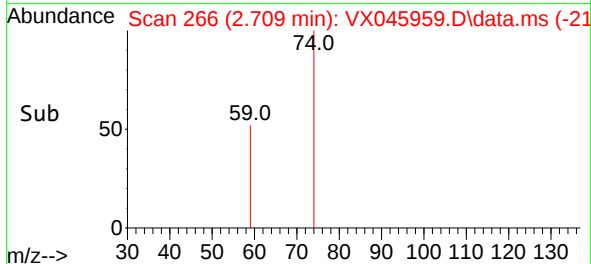
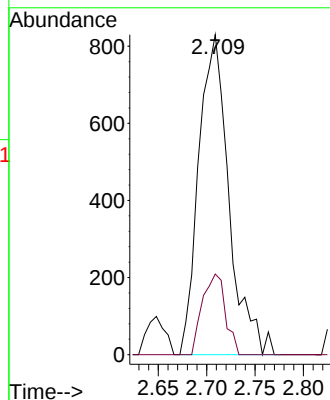
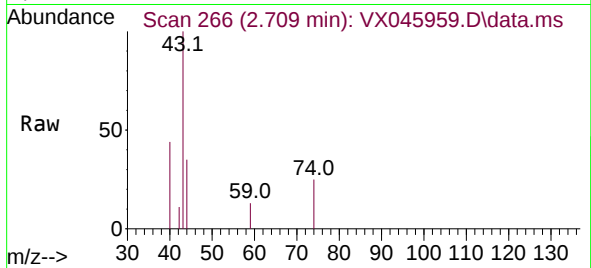




#18
Methyl Acetate
Concen: 1.545 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

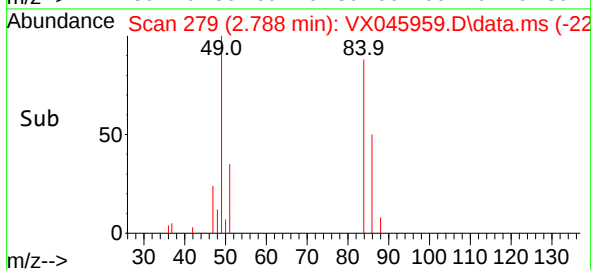
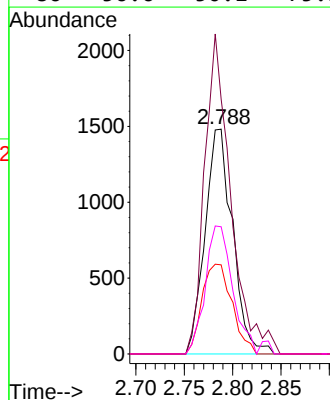
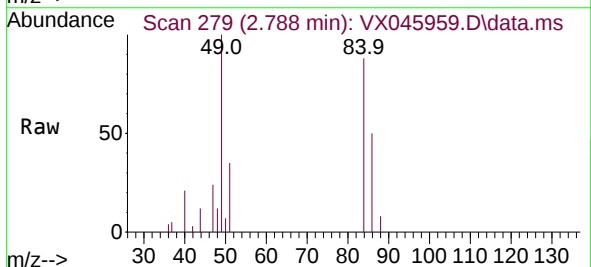
Instrument :
MSVOA_X
ClientSampleId :
MH-G

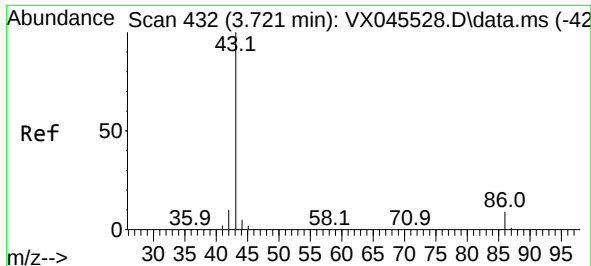
Tgt Ion: 43 Resp: 1808
Ion Ratio Lower Upper
43 100
74 19.1 17.5 26.3



#20
Methylene Chloride
Concen: 3.082 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 84 Resp: 2933
Ion Ratio Lower Upper
84 100
49 113.3 107.5 161.3
51 39.7 33.0 49.6
86 56.6 50.1 75.1

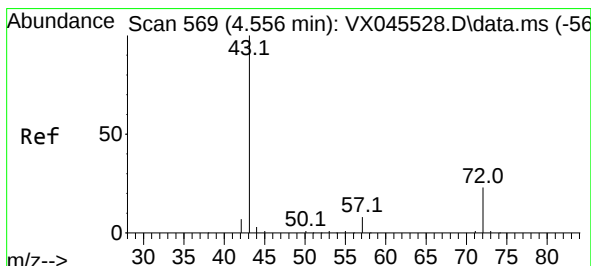
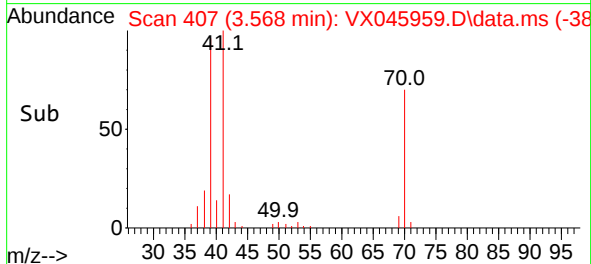
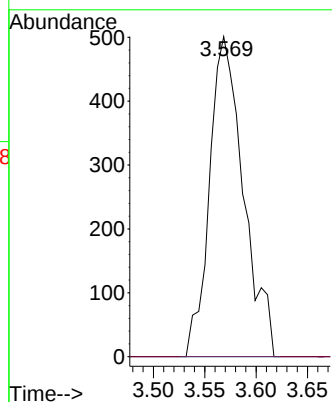
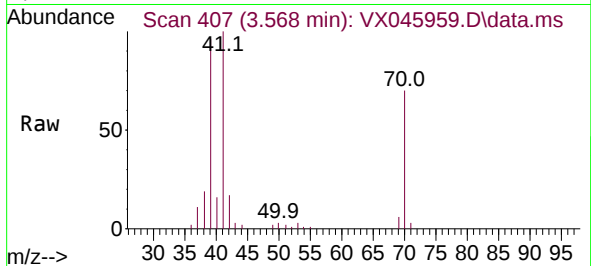




#23
 Vinyl Acetate
 Concen: 0.439 ug/l
 RT: 3.568 min Scan# 407
 Delta R.T. -0.152 min
 Lab File: VX045959.D
 Acq: 28 Apr 2025 16:13

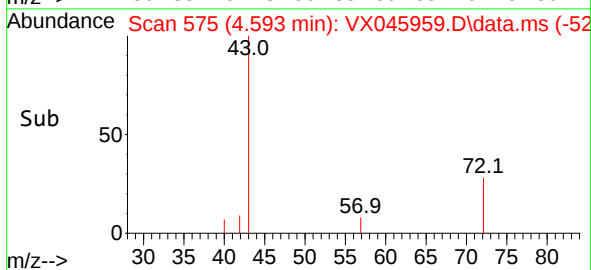
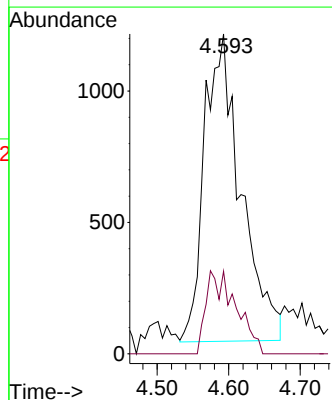
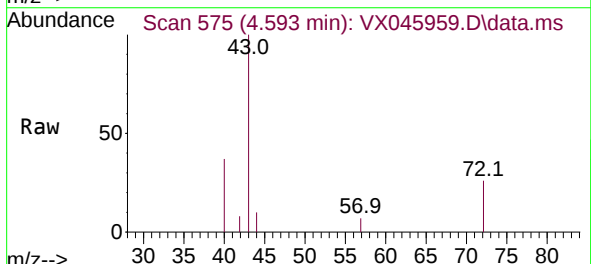
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-G

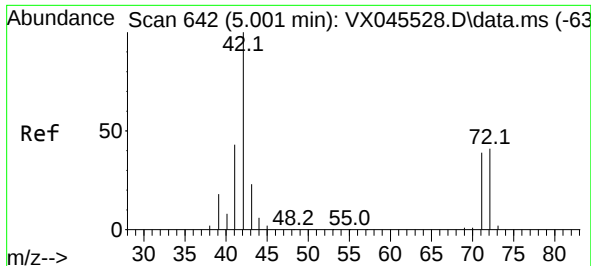
Tgt Ion: 43 Resp: 1151
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.5 11.3#



#25
 2-Butanone
 Concen: 5.566 ug/l
 RT: 4.593 min Scan# 575
 Delta R.T. 0.037 min
 Lab File: VX045959.D
 Acq: 28 Apr 2025 16:13

Tgt Ion: 43 Resp: 4142
 Ion Ratio Lower Upper
 43 100
 72 26.9 18.6 28.0





#29

Tetrahydrofuran

Concen: 0.425 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.037 min

Lab File: VX045959.D

Acq: 28 Apr 2025 16:13

Instrument :

MSVOA_X

ClientSampleId :

MH-G

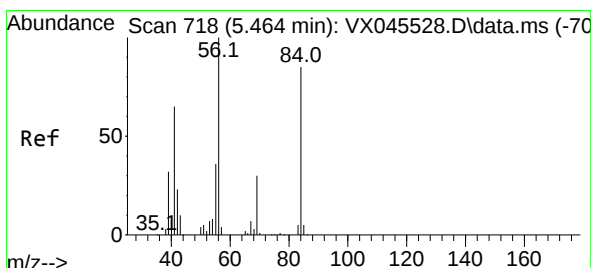
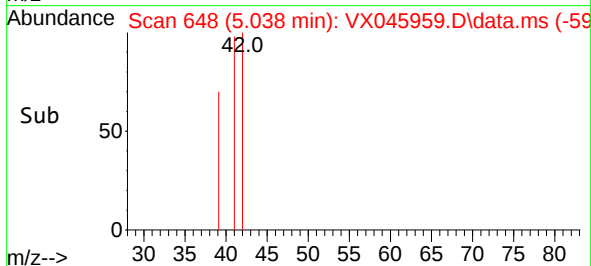
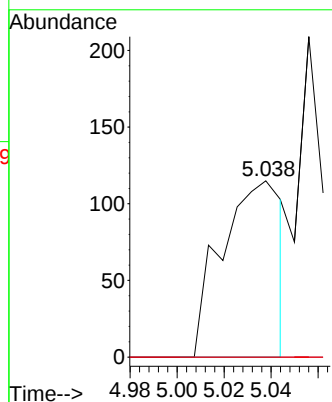
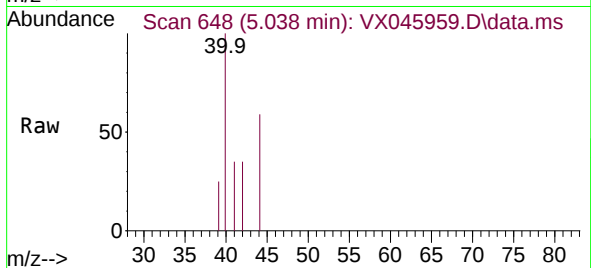
Tgt Ion: 42 Resp: 205

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.0#

71 0.0 31.4 47.0#



#31

Cyclohexane

Concen: 1.300 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045959.D

Acq: 28 Apr 2025 16:13

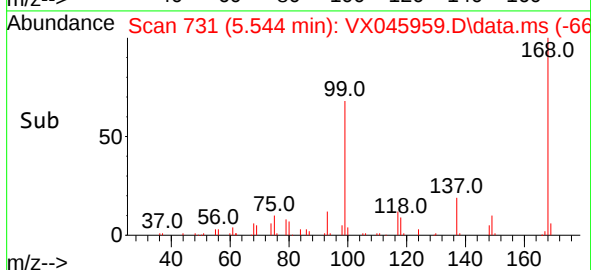
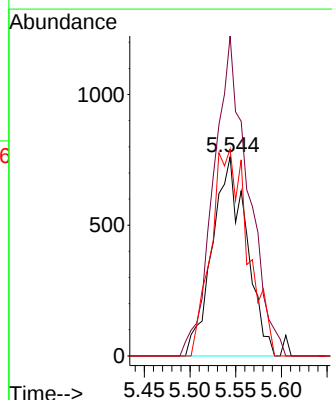
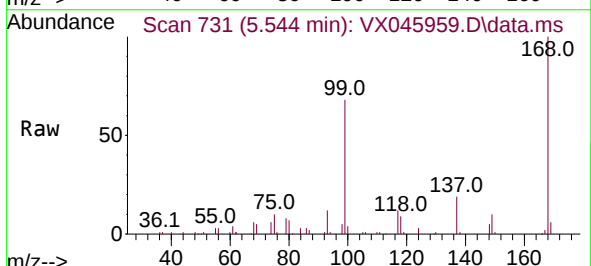
Tgt Ion: 56 Resp: 1974

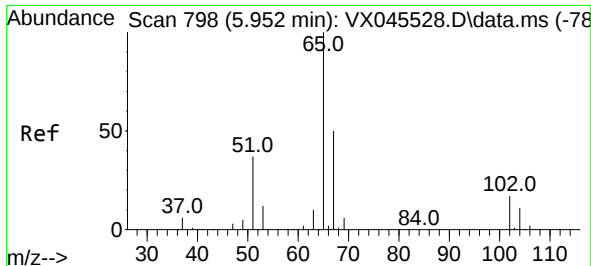
Ion Ratio Lower Upper

56 100

69 160.8 23.6 35.4#

84 104.1 67.7 101.5#

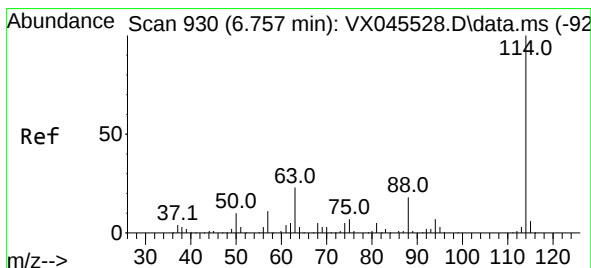
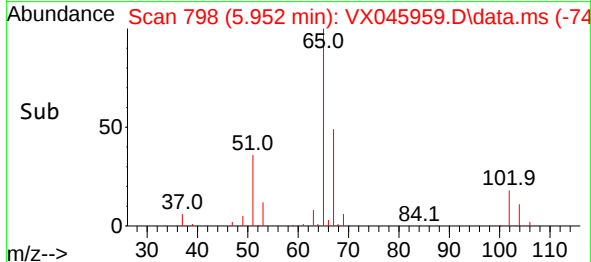
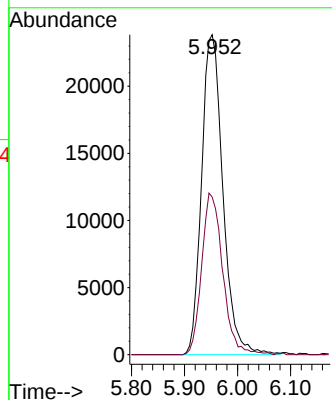
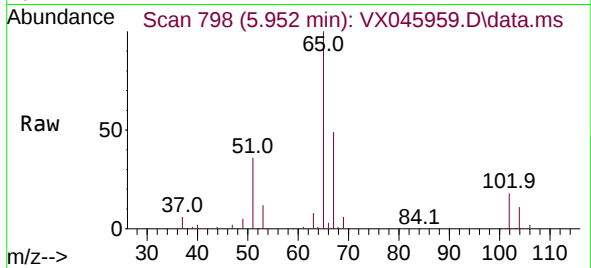




#33
 1,2-Dichloroethane-d4
 Concen: 53.850 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX045959.D
 Acq: 28 Apr 2025 16:13

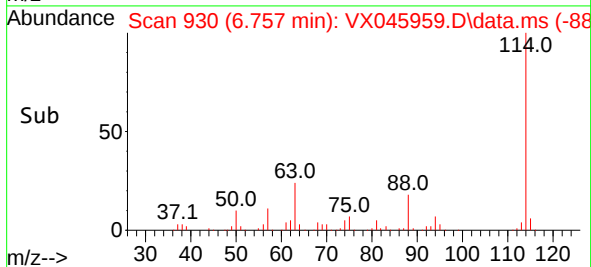
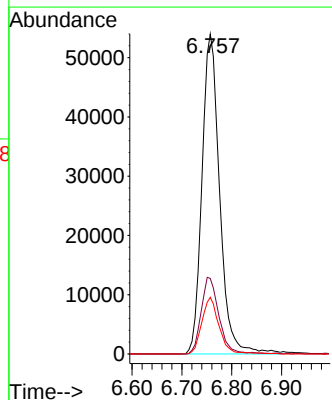
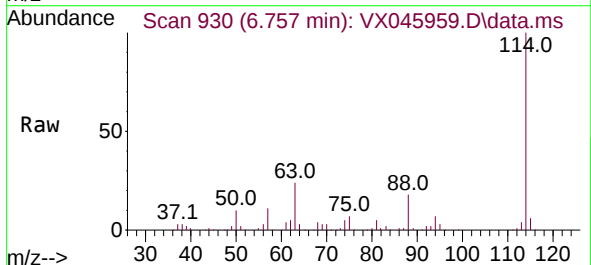
Instrument :
 MSVOA_X
 ClientSampleId :
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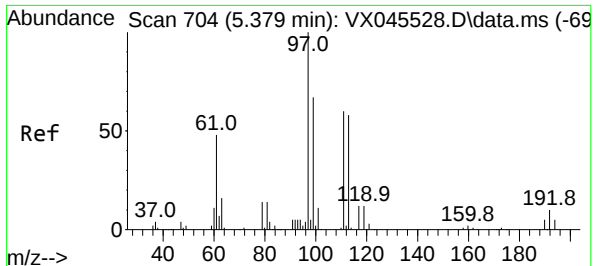
Tgt Ion: 65 Resp: 66664
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 99.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. 0.000 min
 Lab File: VX045959.D
 Acq: 28 Apr 2025 16:13

Tgt Ion: 114 Resp: 133090
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.8
 88 17.7 0.0 35.4

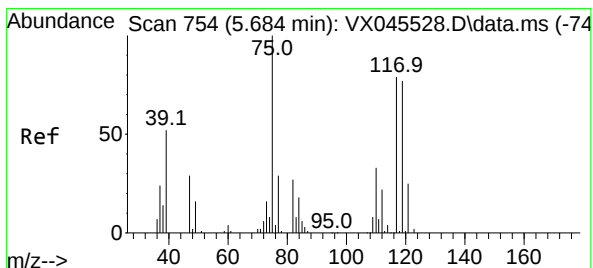
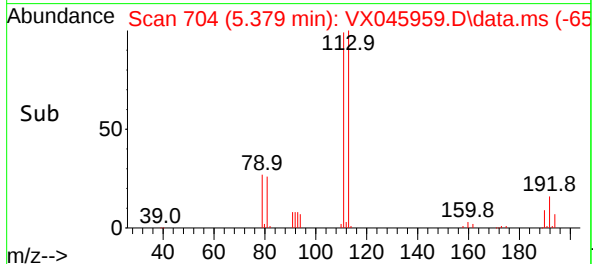
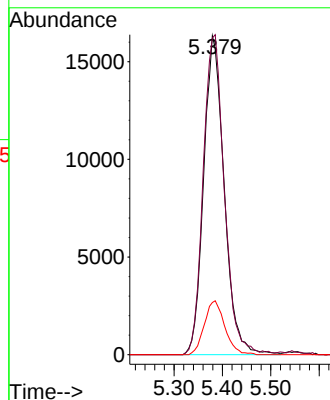
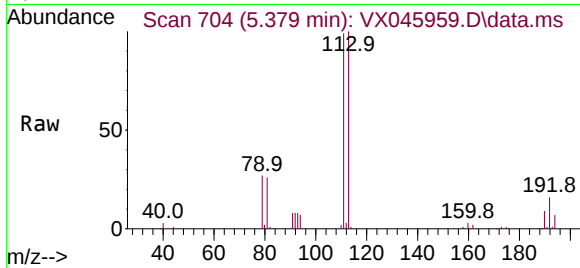




#35
Dibromofluoromethane
Concen: 51.072 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

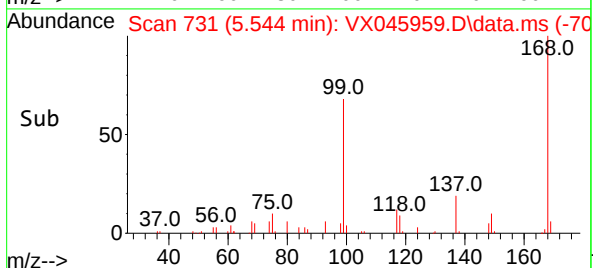
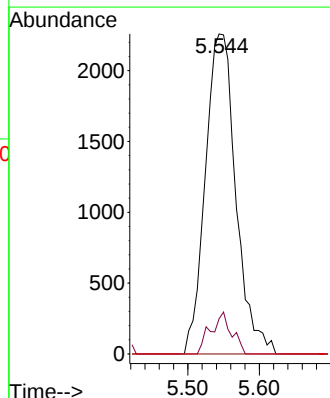
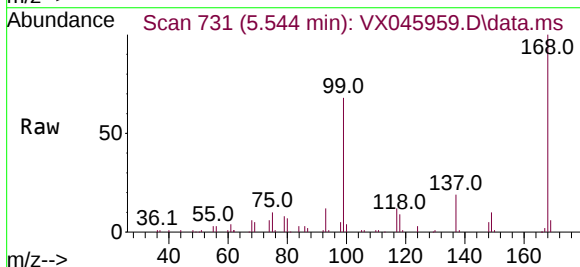
Instrument :
MSVOA_X
ClientSampleId :
MH-G

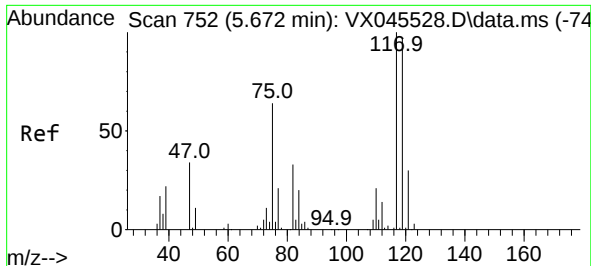
Tgt Ion:113 Resp: 48226
Ion Ratio Lower Upper
113 100
111 102.5 81.8 122.6
192 16.8 13.8 20.6



#36
1,1-Dichloropropene
Concen: 5.257 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 75 Resp: 6703
Ion Ratio Lower Upper
75 100
110 8.9 16.9 50.6#
77 0.0 25.0 37.4#

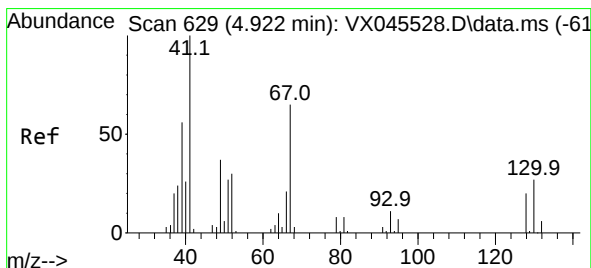
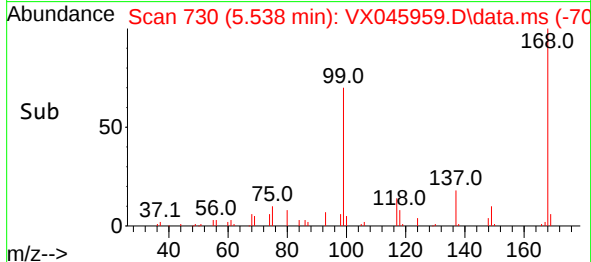
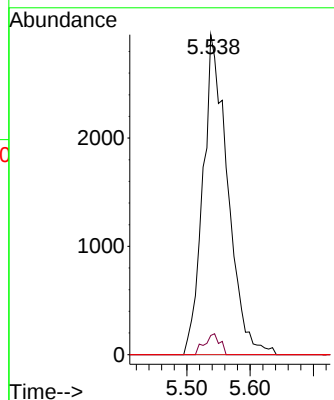
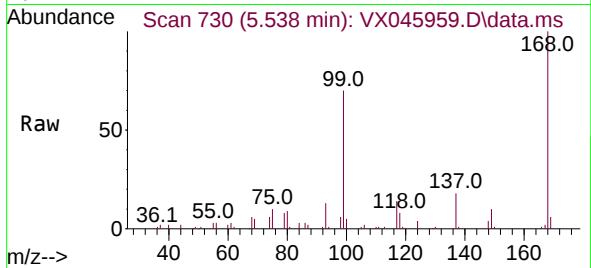




#38
Carbon Tetrachloride
Concen: 5.841 ug/l
RT: 5.538 min Scan# 711
Delta R.T. -0.134 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

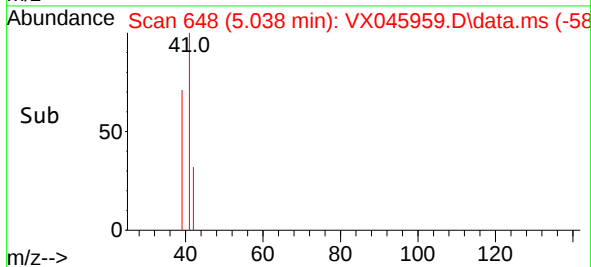
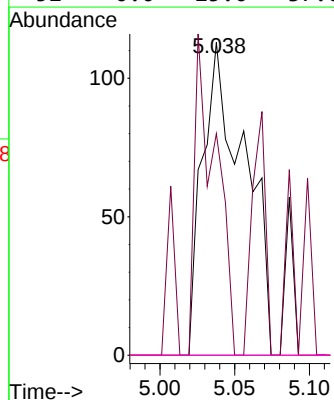
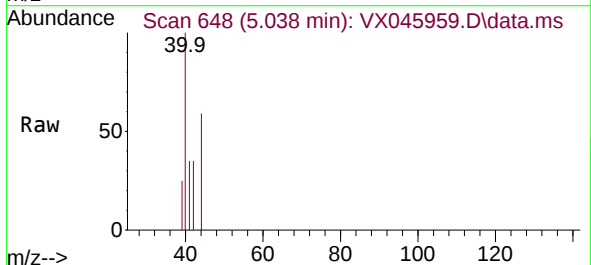
Instrument :
MSVOA_X
ClientSampleId :
MH-G

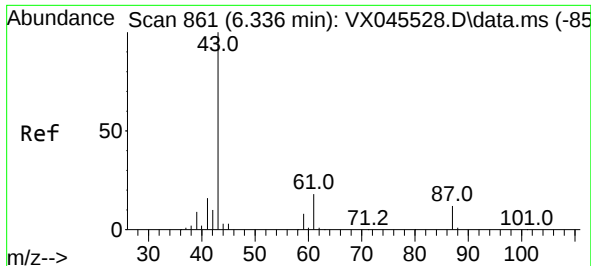
Tgt Ion:117 Resp: 8049
Ion Ratio Lower Upper
117 100
119 6.0 76.9 115.3#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 0.262 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.116 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 41 Resp: 222
Ion Ratio Lower Upper
41 100
39 51.4 47.0 70.6
67 0.0 53.2 79.8#
52 0.0 25.0 37.6#

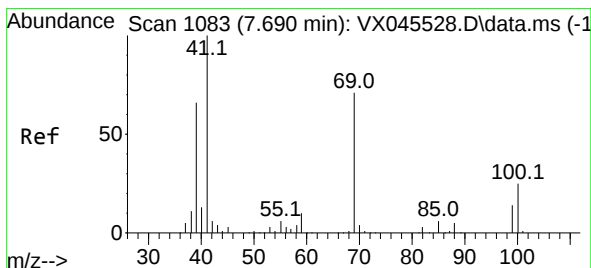
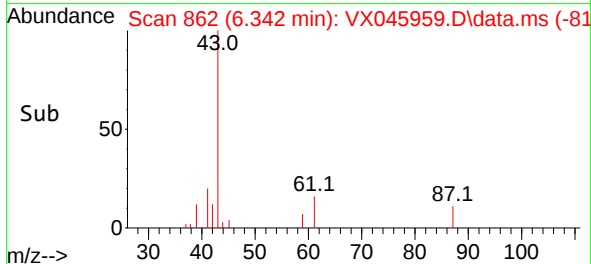
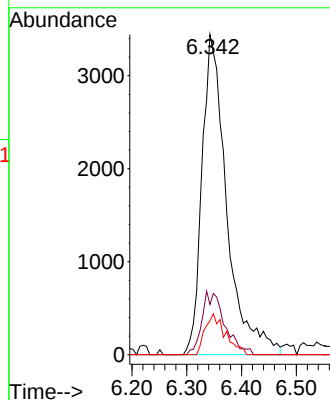
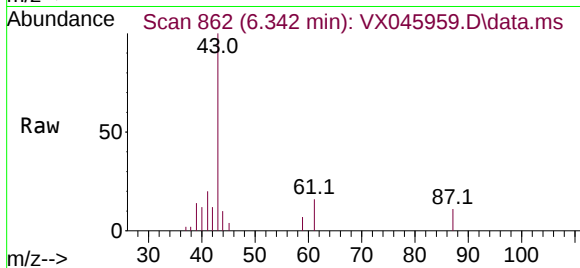




#43
Isopropyl Acetate
Concen: 4.442 ug/l
RT: 6.342 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

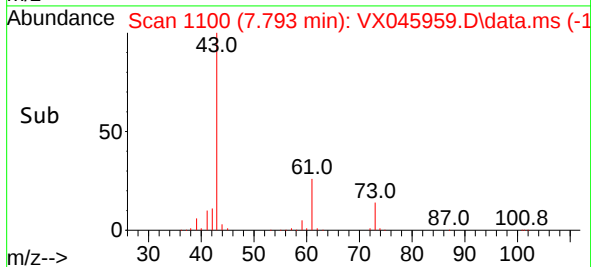
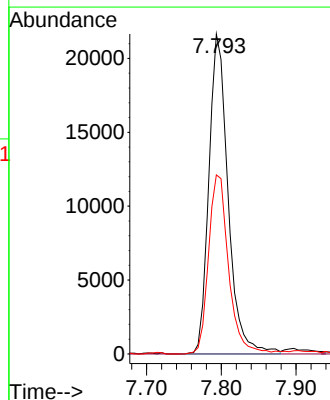
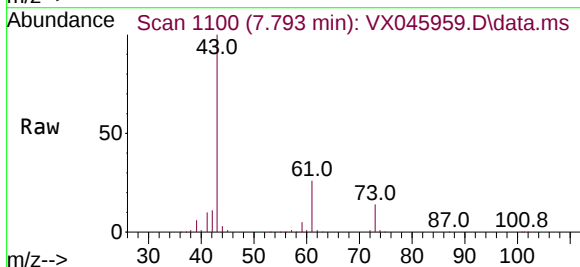
Instrument :
MSVOA_X
ClientSampleId :
MH-G

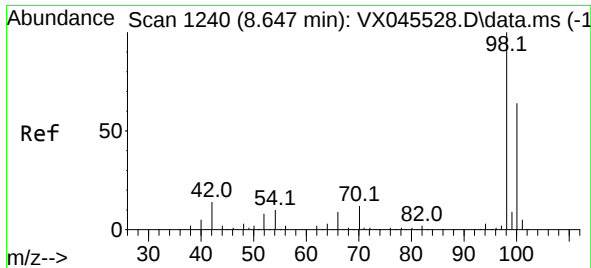
Tgt Ion: 43 Resp: 10816
Ion Ratio Lower Upper
43 100
61 18.1 14.1 21.1
87 10.5 9.2 13.8



#48
Methyl methacrylate
Concen: 30.737 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 41 Resp: 38646
Ion Ratio Lower Upper
41 100
69 0.0 58.2 87.2#
39 58.2 53.6 80.4

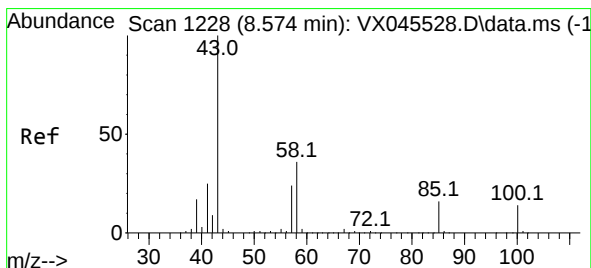
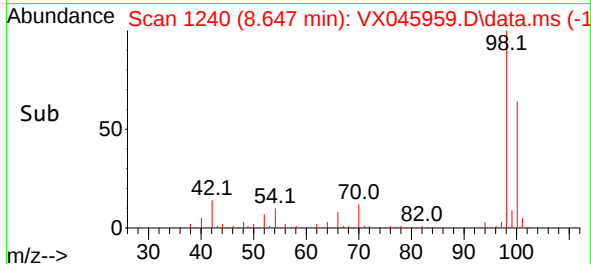
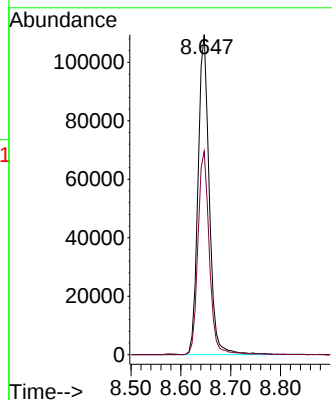
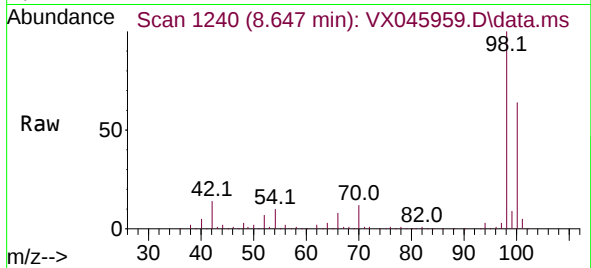




#50
Toluene-d8
Concen: 51.872 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

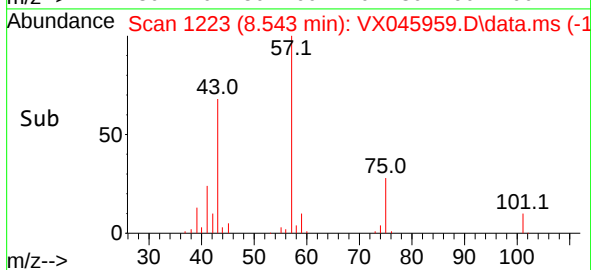
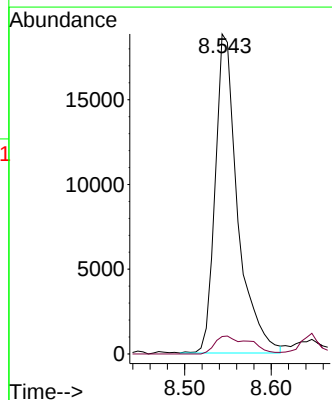
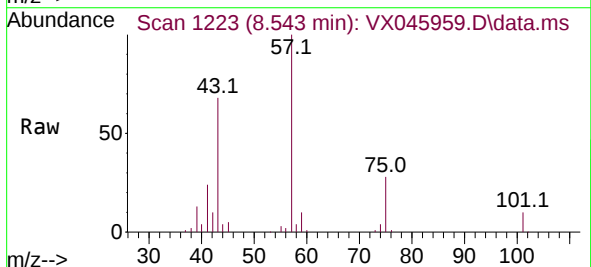
Instrument :
MSVOA_X
ClientSampleId :
MH-G

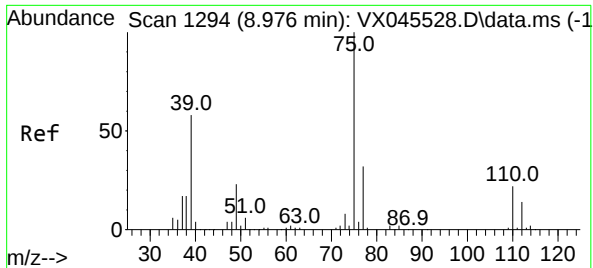
Tgt Ion: 98 Resp: 170966
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 21.009 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.030 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 43 Resp: 33915
Ion Ratio Lower Upper
43 100
58 8.9 28.5 42.7#

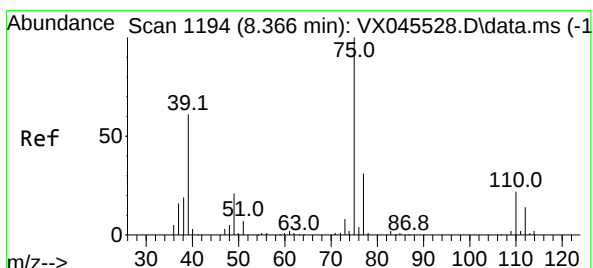
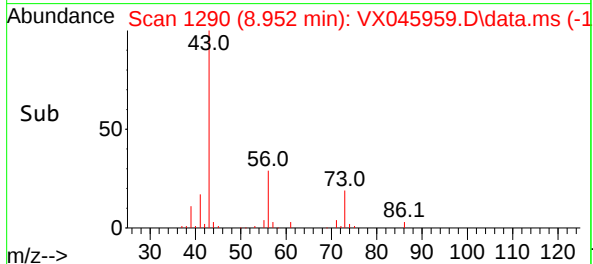
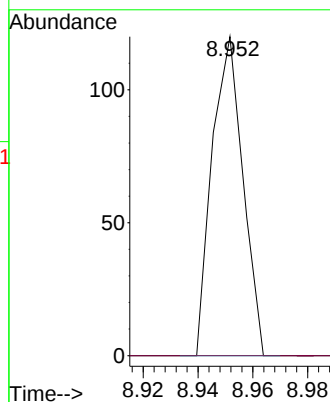
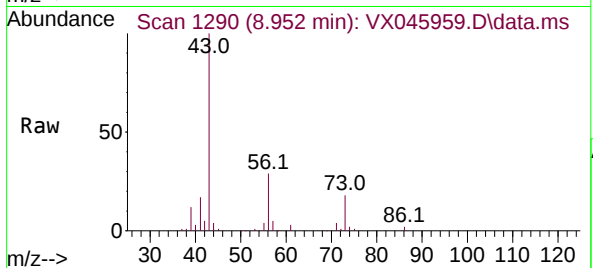




#53
 t-1,3-Dichloropropene
 Concen: 2.352 ug/l
 RT: 8.952 min Scan# 1124
 Delta R.T. -0.024 min
 Lab File: VX045959.D
 Acq: 28 Apr 2025 16:13

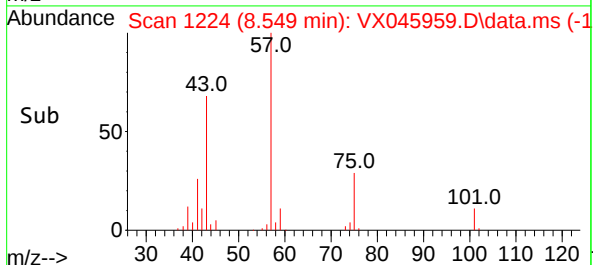
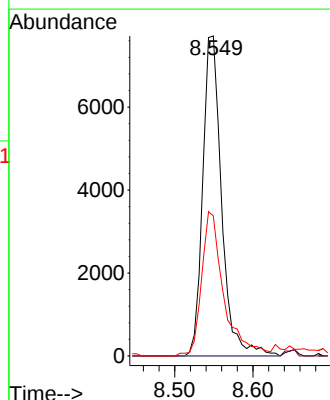
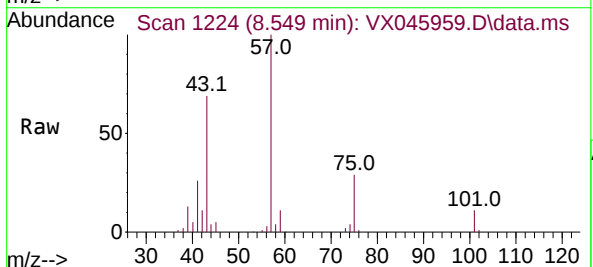
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-G

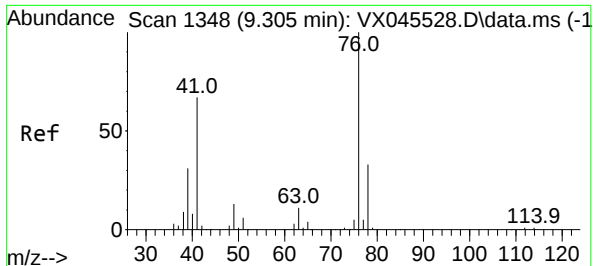
Tgt Ion: 75 Resp: 94
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 9.225 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX045959.D
 Acq: 28 Apr 2025 16:13

Tgt Ion: 75 Resp: 12912
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 42.9 48.4 72.6#

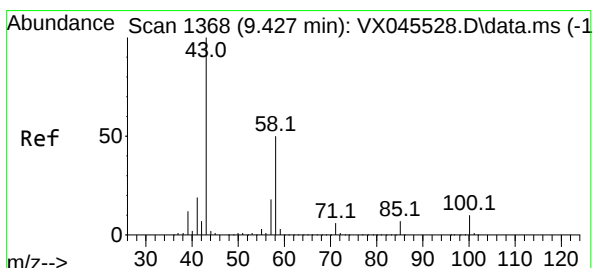
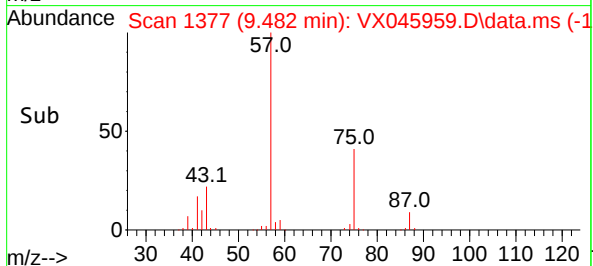
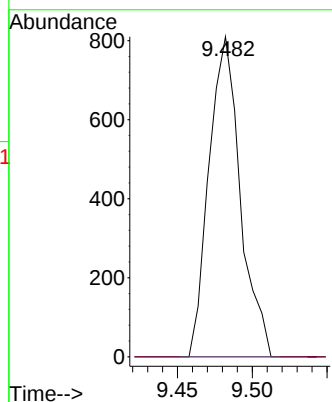
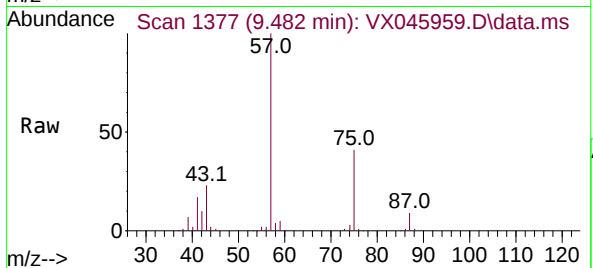




#57
1,3-Dichloropropane
Concen: 0.722 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.177 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

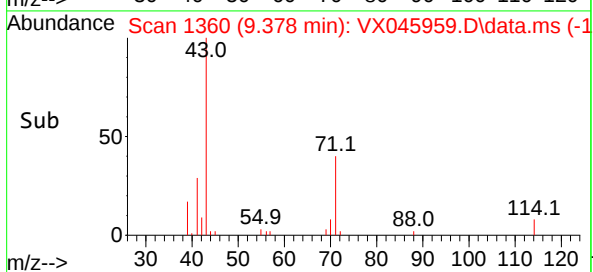
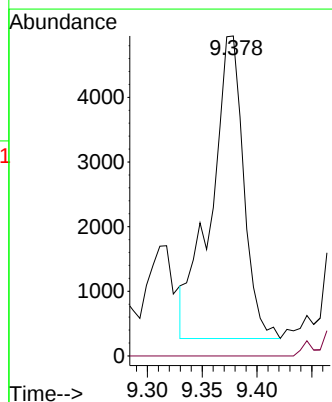
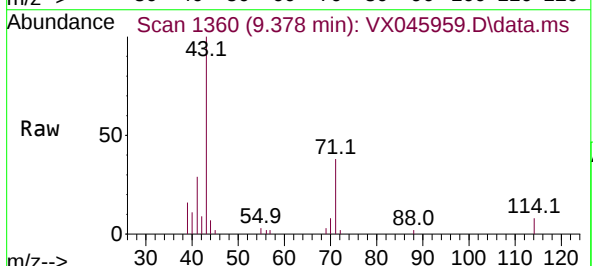
Instrument :
MSVOA_X
ClientSampleId :
MH-G

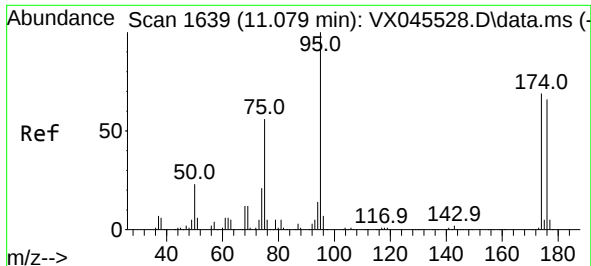
Tgt Ion: 76 Resp: 1180
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#



#59
2-Hexanone
Concen: 8.090 ug/l
RT: 9.378 min Scan# 1360
Delta R.T. -0.049 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 43 Resp: 9671
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.6#

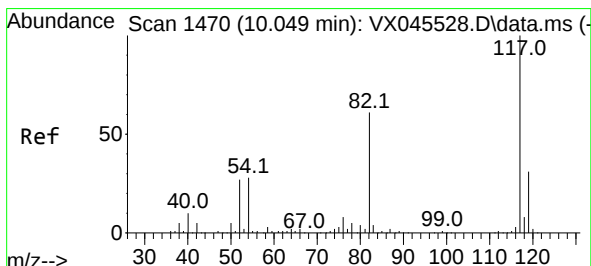
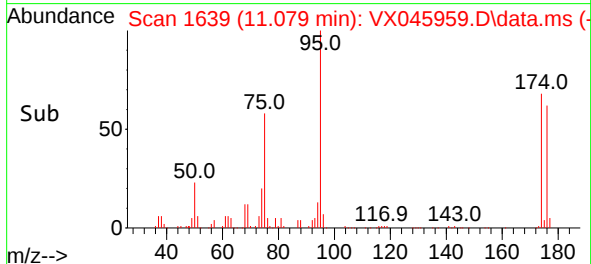
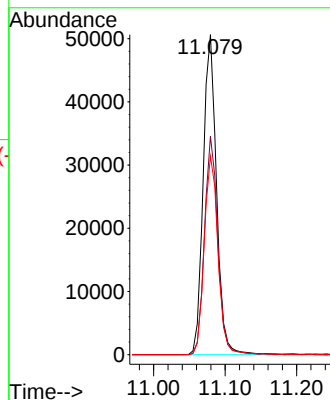
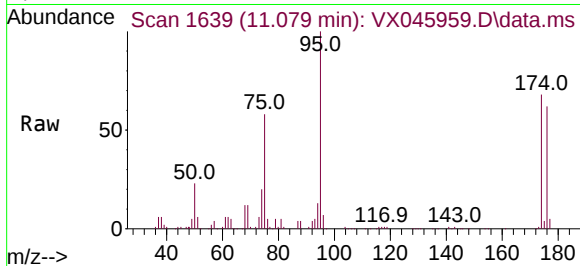




#62
4-Bromofluorobenzene
Concen: 54.786 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

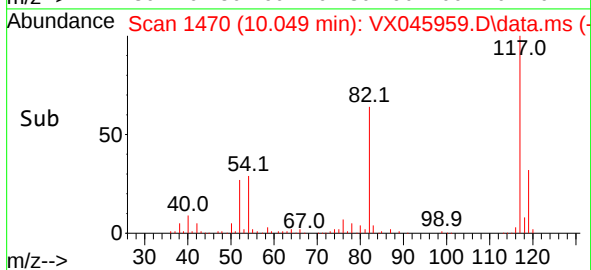
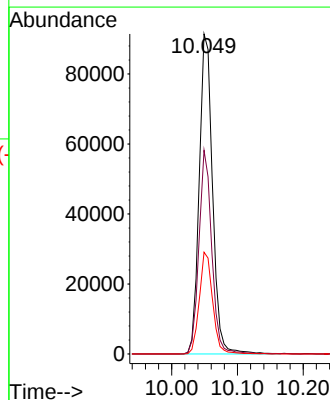
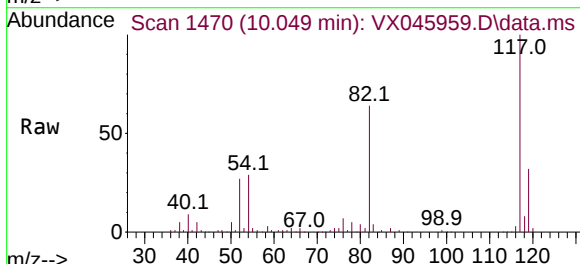
Instrument :
MSVOA_X
ClientSampleId :
MH-G

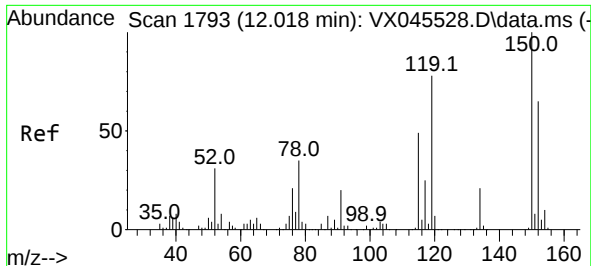
Tgt Ion: 95 Resp: 65772
Ion Ratio Lower Upper
95 100
174 68.2 0.0 135.8
176 64.1 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 117 Resp: 128830
Ion Ratio Lower Upper
117 100
82 63.6 49.2 73.8
119 31.8 25.1 37.7

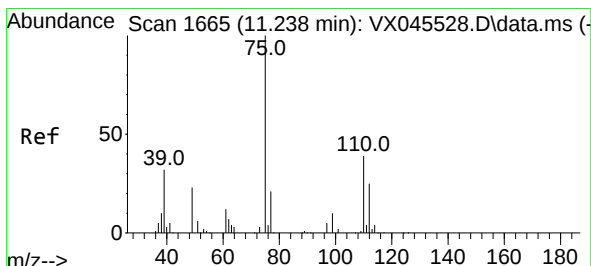
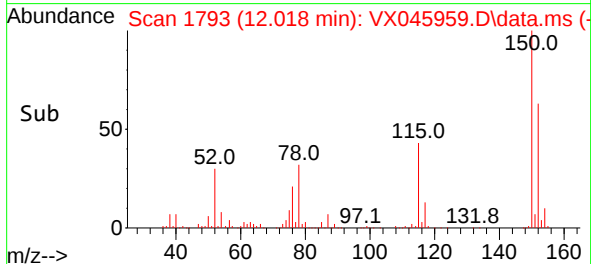
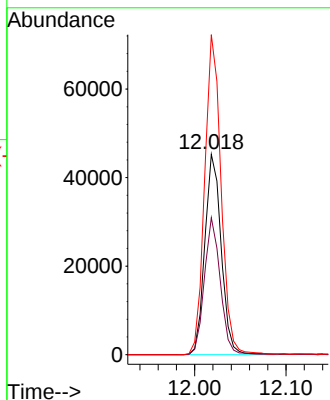
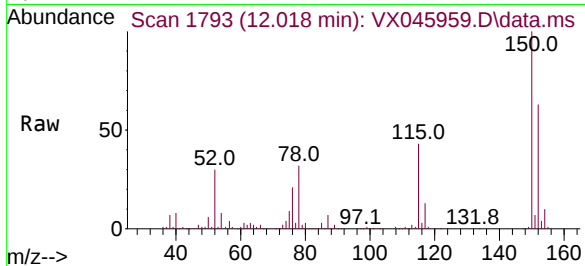




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

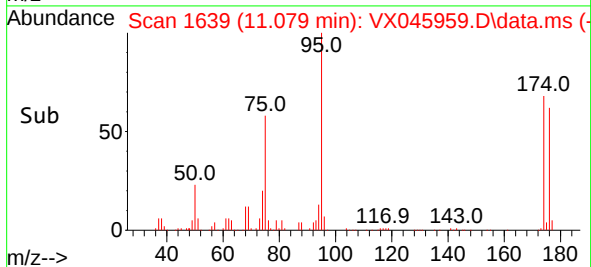
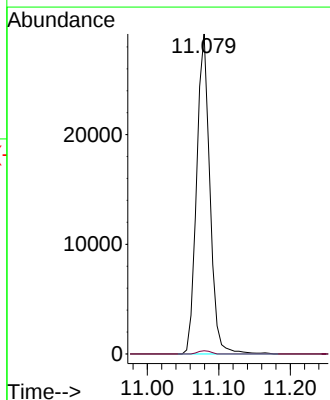
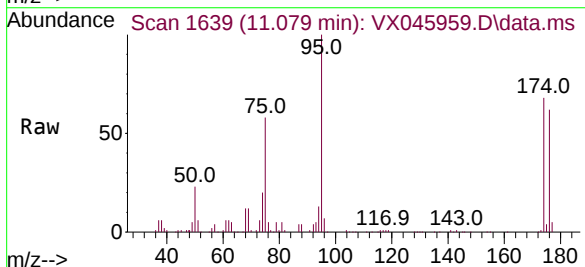
Instrument :
MSVOA_X
ClientSampleId :
MH-G

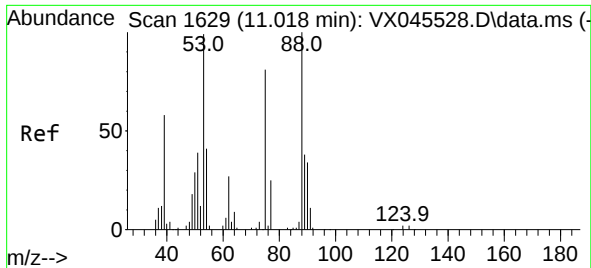
Tgt Ion:152 Resp: 56232
Ion Ratio Lower Upper
152 100
115 66.3 46.9 140.7
150 160.0 0.0 349.4



#76
1,2,3-Trichloropropane
Concen: 27.390 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX045959.D
Acq: 28 Apr 2025 16:13

Tgt Ion: 75 Resp: 37569
Ion Ratio Lower Upper
75 100
77 1.0 20.0 59.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.958 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045959.D
 Acq: 28 Apr 2025 16:13

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-G

Tgt Ion: 75 Resp: 37569
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 37.2 55.8#

