

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042825\
 Data File : VX045960.D
 Acq On : 28 Apr 2025 16:36
 Operator : JC/MD
 Sample : Q1892-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-H

Quant Time: Apr 29 01:35:22 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

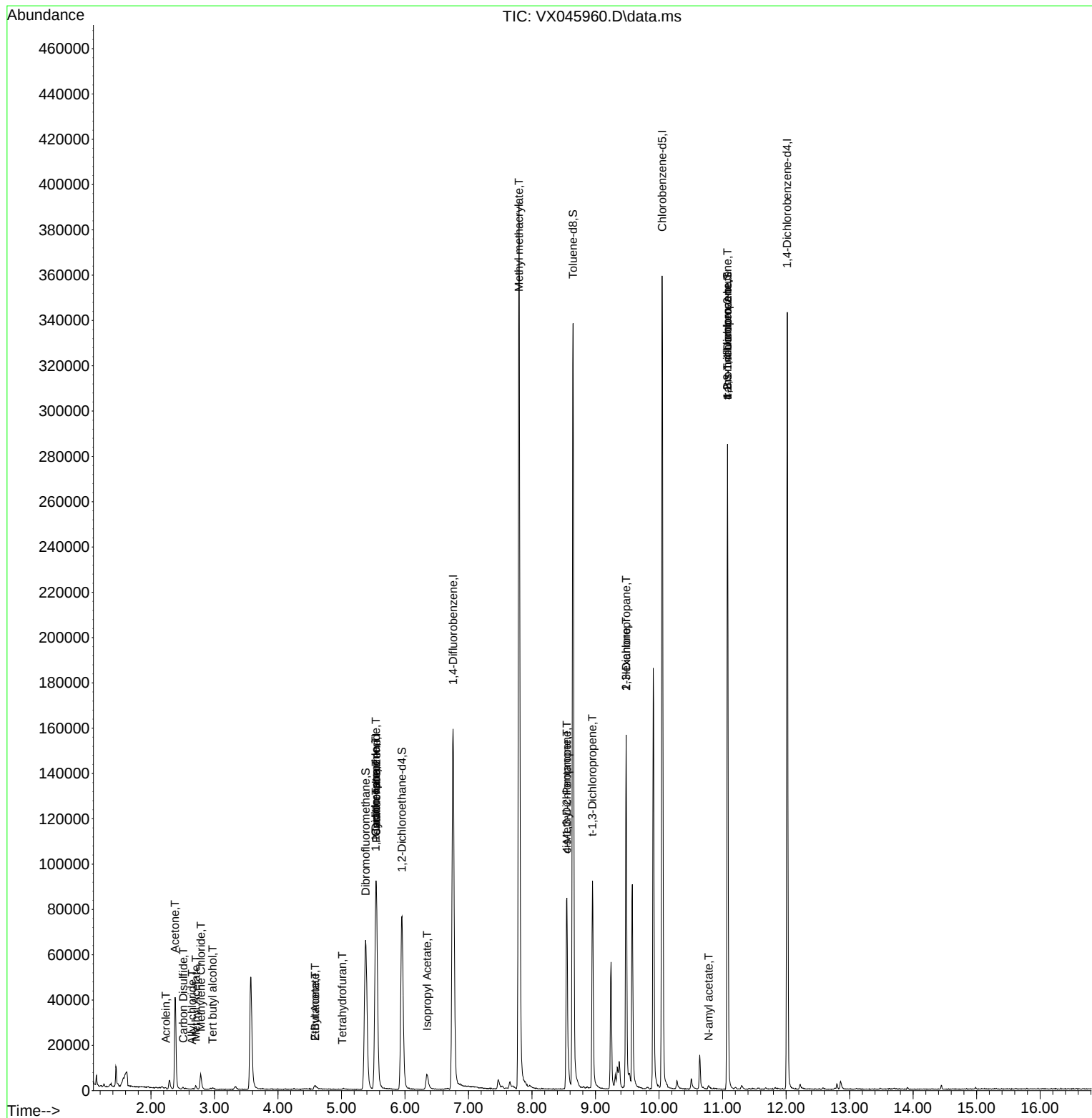
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	78817	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	154672	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143373	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	62186	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78722	54.617	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.240%	
35) Dibromofluoromethane	5.379	113	57335	52.246	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.500%	
50) Toluene-d8	8.647	98	193640	50.554	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.100%	
62) 4-Bromofluorobenzene	11.079	95	73096	52.391	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.780%	
Target Compounds						Qvalue
11) Tert butyl alcohol	2.971	59	764	3.944	ug/l #	72
13) Acrolein	2.233	56	102	0.382	ug/l #	76
14) Allyl chloride	2.648	41	408	0.227	ug/l #	21
16) Acetone	2.380	43	45560	76.977	ug/l	97
17) Carbon Disulfide	2.508	76	1087	0.465	ug/l #	76
18) Methyl Acetate	2.709	43	2097	1.539	ug/l #	82
20) Methylene Chloride	2.788	84	2977	2.687	ug/l	86
25) 2-Butanone	4.587	43	4460	5.148	ug/l	97
29) Tetrahydrofuran	5.013	42	113	0.201	ug/l #	35
31) Cyclohexane	5.544	56	2245	1.270	ug/l #	36
36) 1,1-Dichloropropene	5.538	75	7670	5.176	ug/l #	50
37) Ethyl Acetate	4.587	43	4460	2.389	ug/l #	71
38) Carbon Tetrachloride	5.544	117	9839	6.144	ug/l #	16
43) Isopropyl Acetate	6.348	43	10531	3.721	ug/l	96
48) Methyl methacrylate	7.793	41	38767	26.531	ug/l #	49
51) 4-Methyl-2-Pentanone	8.549	43	35238	18.782	ug/l #	49
53) t-1,3-Dichloropropene	8.952	75	177	2.391	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	13409	8.244	ug/l #	67
57) 1,3-Dichloropropane	9.482	76	1344	0.707	ug/l #	42
59) 2-Hexanone	9.482	43	19739	14.208	ug/l #	58
74) N-amyl acetate	10.781	43	1221	0.512	ug/l #	49
76) 1,2,3-Trichloropropane	11.079	75	41862	27.598	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	41862	93.663	ug/l #	1

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

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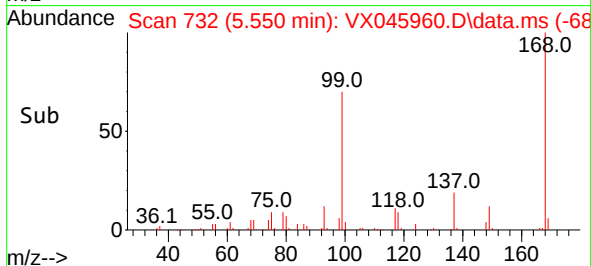
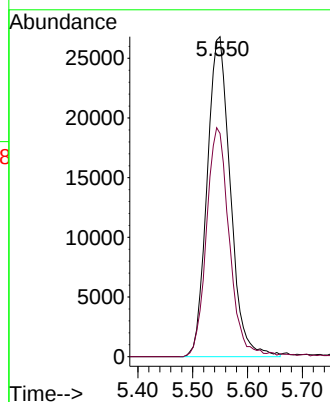
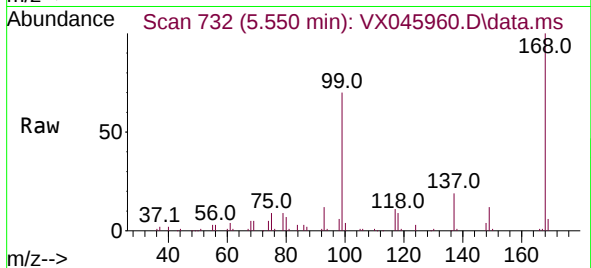




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

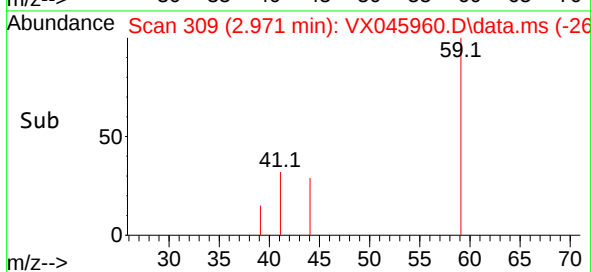
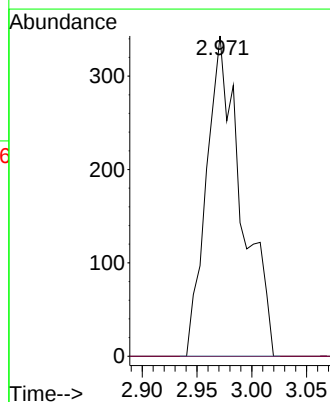
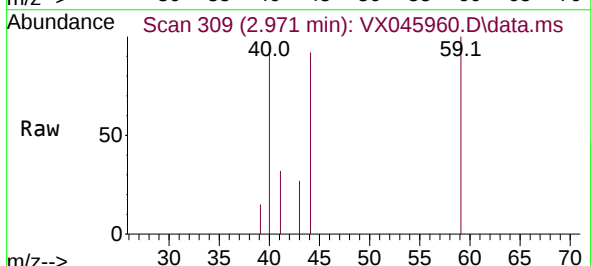
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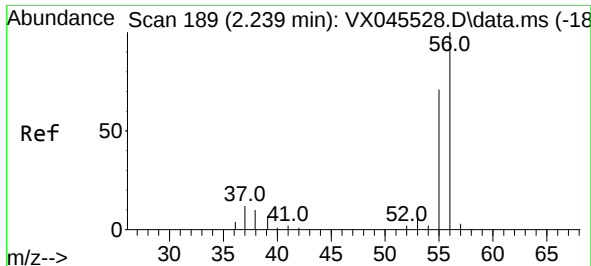
Tgt Ion:168 Resp: 78817
Ion Ratio Lower Upper
168 100
99 69.7 52.3 78.5



#11
Tert butyl alcohol
Concen: 3.944 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 59 Resp: 764
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 0.382 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX045960.D

Acq: 28 Apr 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

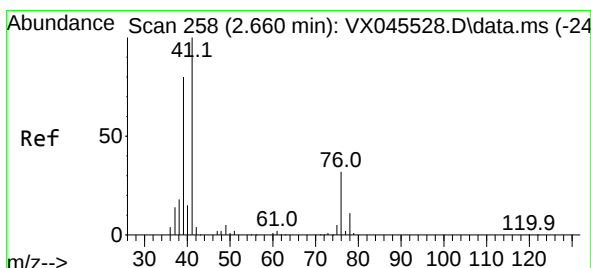
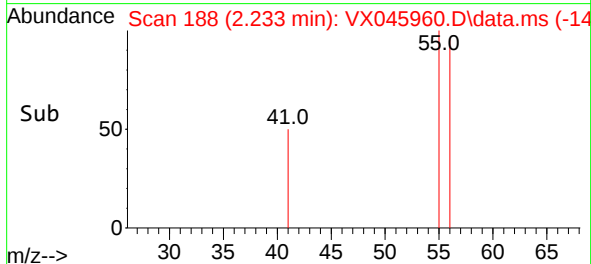
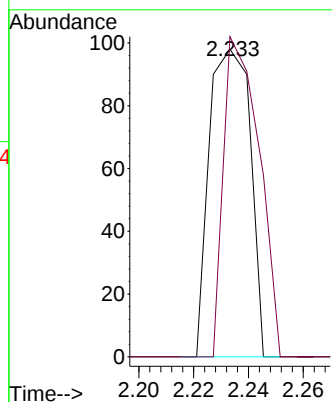
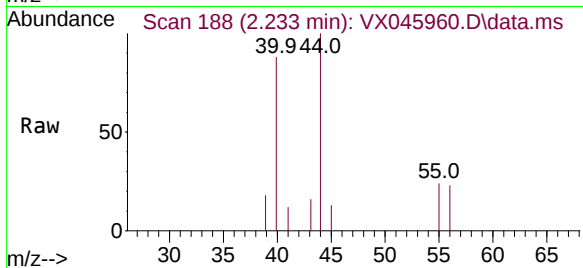
MH-H

Tgt Ion: 56 Resp: 102

Ion Ratio Lower Upper

56 100

55 90.2 56.2 84.2#



#14

Allyl chloride

Concen: 0.227 ug/l

RT: 2.648 min Scan# 256

Delta R.T. -0.012 min

Lab File: VX045960.D

Acq: 28 Apr 2025 16:36

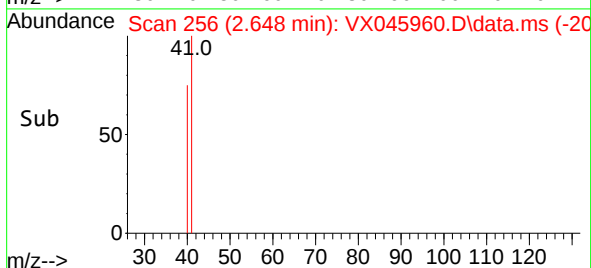
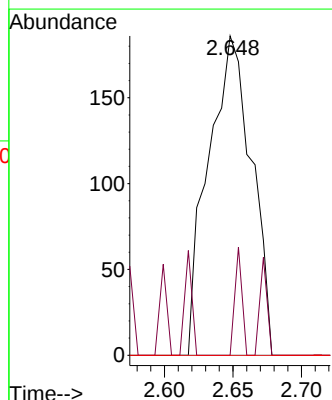
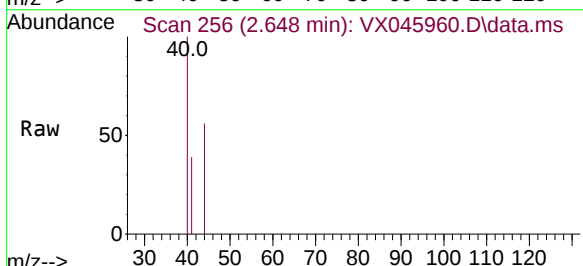
Tgt Ion: 41 Resp: 408

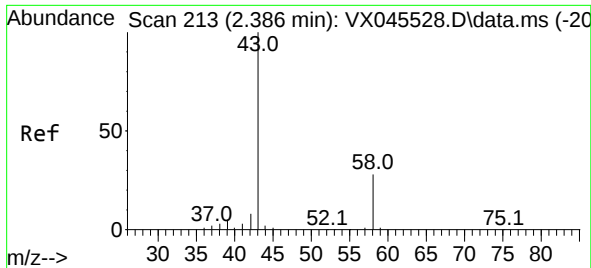
Ion Ratio Lower Upper

41 100

39 0.0 60.2 90.2#

76 0.0 24.6 36.8#

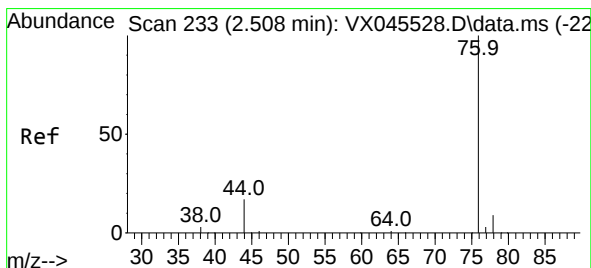
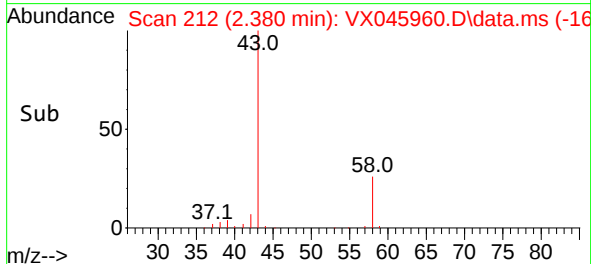
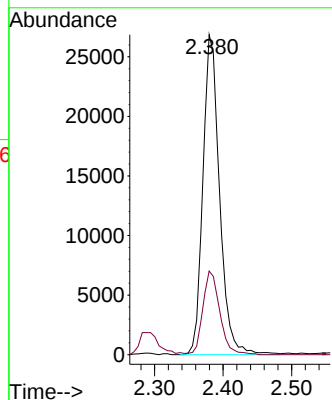
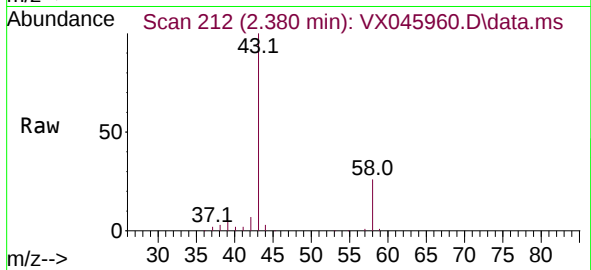




#16
Acetone
Concen: 76.977 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

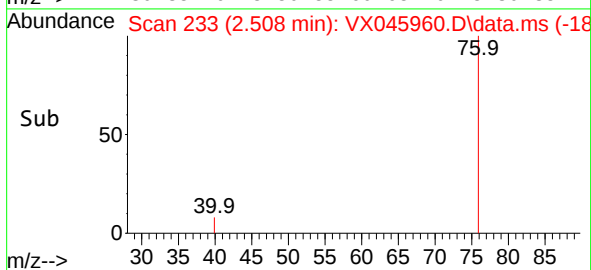
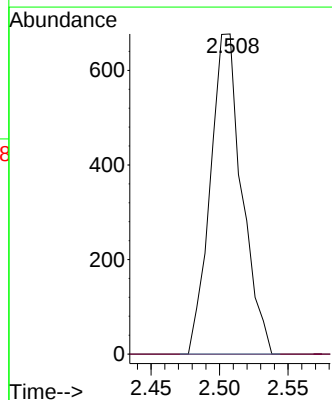
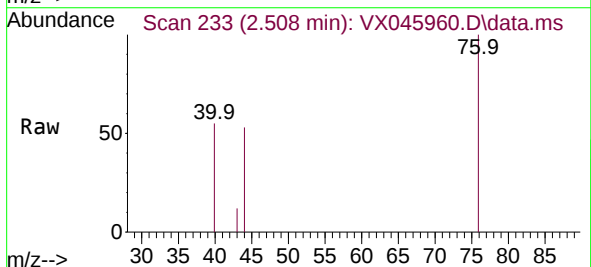
Instrument :
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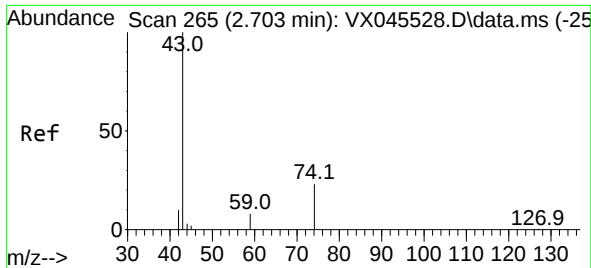
Tgt Ion: 43 Resp: 45560
Ion Ratio Lower Upper
43 100
58 26.2 22.3 33.5



#17
Carbon Disulfide
Concen: 0.465 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.000 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 76 Resp: 1087
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

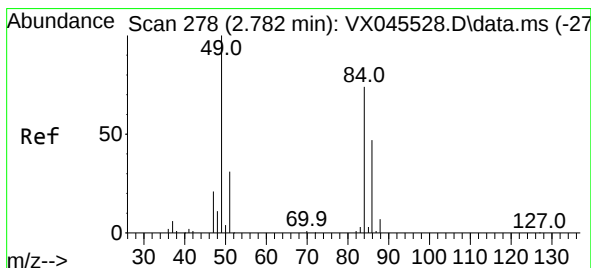
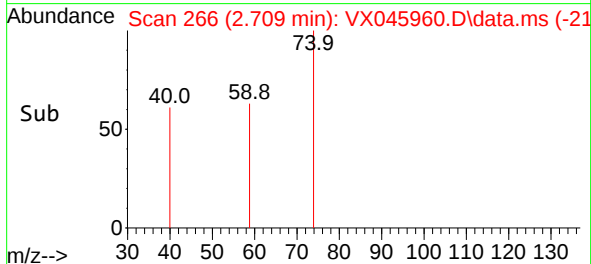
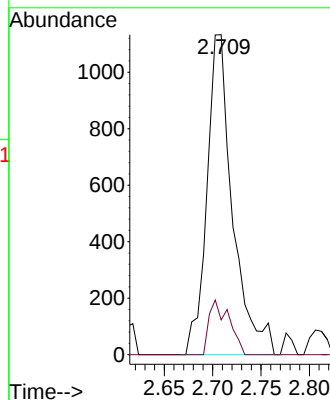
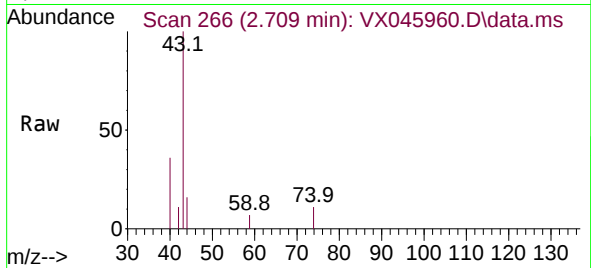




#18
Methyl Acetate
Concen: 1.539 ug/l
RT: 2.709 min Scan# 2097
Delta R.T. 0.006 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

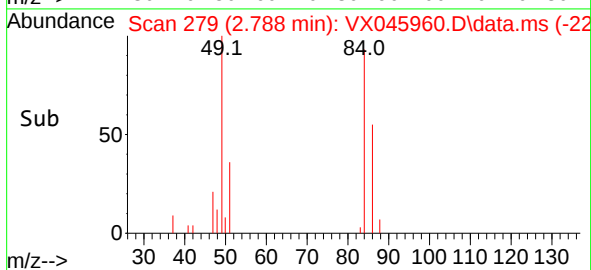
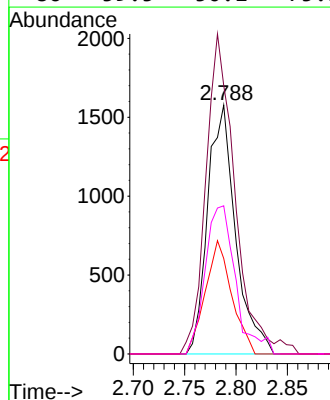
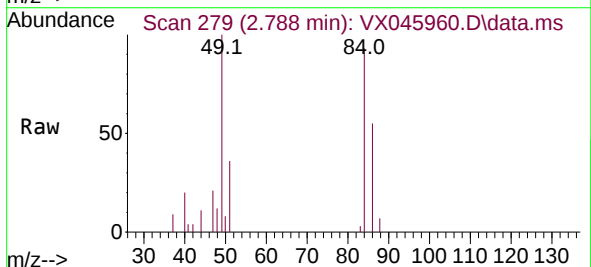
Instrument :
MSVOA_X
ClientSampleId :
MH-H

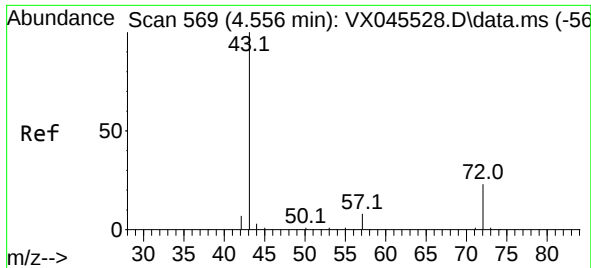
Tgt Ion: 43 Resp: 2097
Ion Ratio Lower Upper
43 100
74 13.3 17.5 26.3#



#20
Methylene Chloride
Concen: 2.687 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 84 Resp: 2977
Ion Ratio Lower Upper
84 100
49 107.9 107.5 161.3
51 38.4 33.0 49.6
86 59.5 50.1 75.1

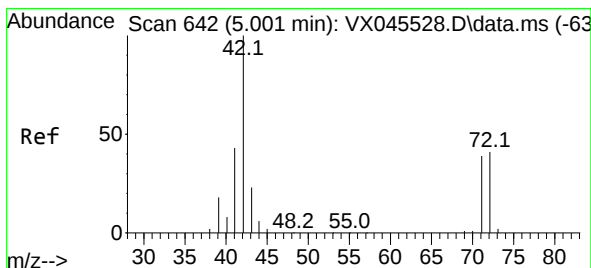
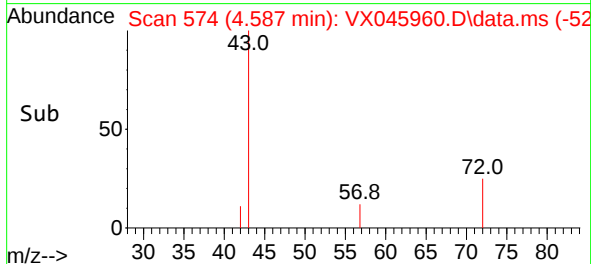
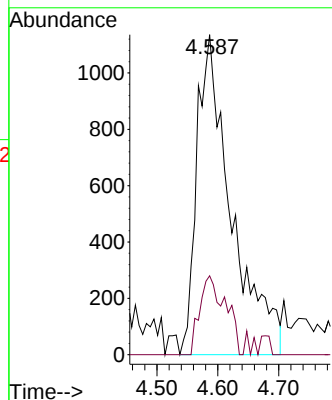
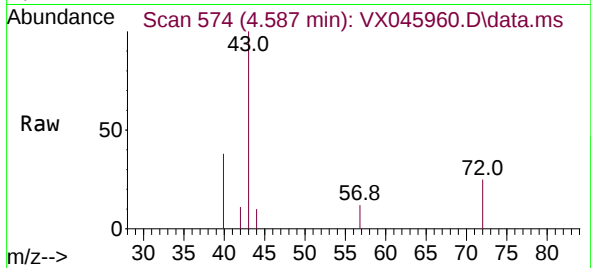




#25
2-Butanone
Concen: 5.148 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.030 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

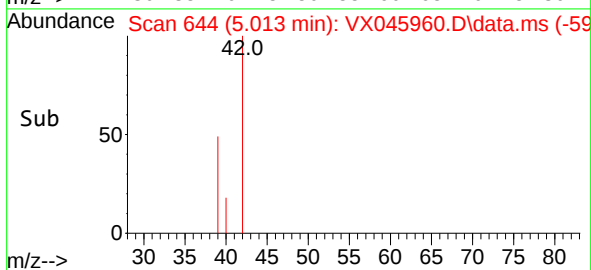
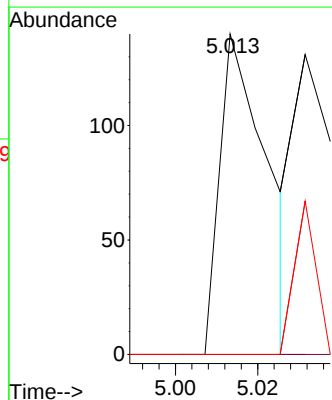
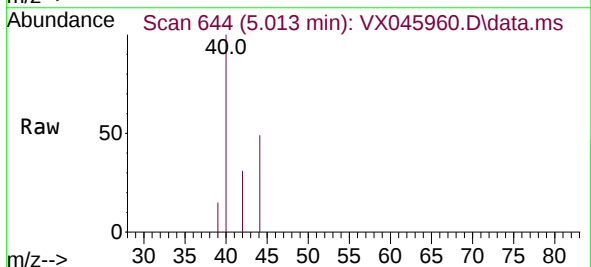
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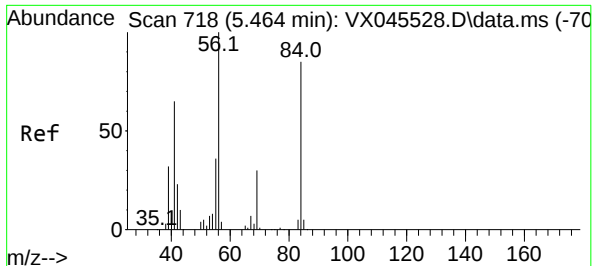
Tgt Ion: 43 Resp: 4460
Ion Ratio Lower Upper
43 100
72 24.6 18.6 28.0



#29
Tetrahydrofuran
Concen: 0.201 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.012 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 42 Resp: 113
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.0#
71 0.0 31.4 47.0#

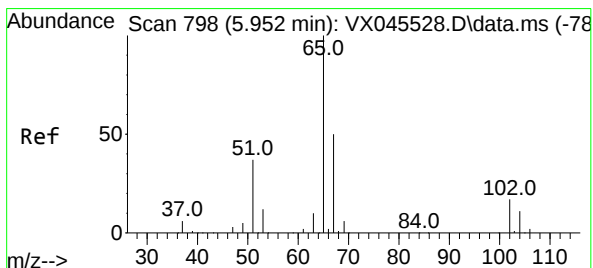
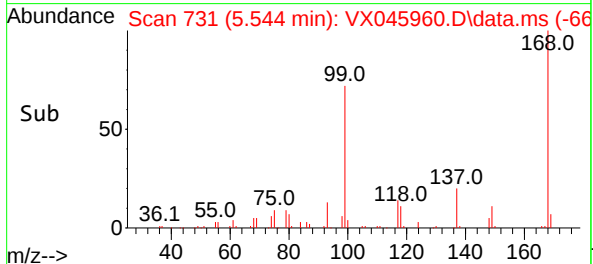
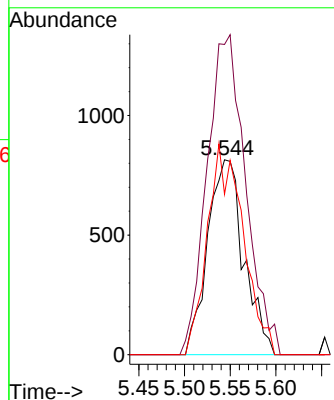
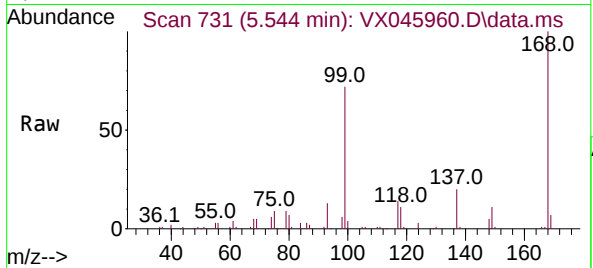




#31
Cyclohexane
Concen: 1.270 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

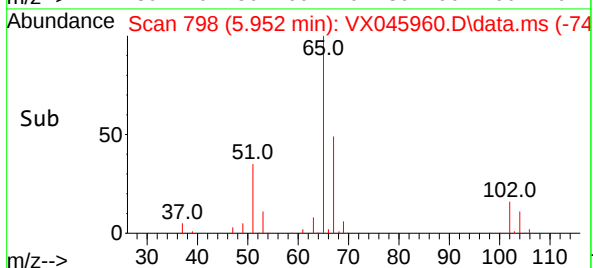
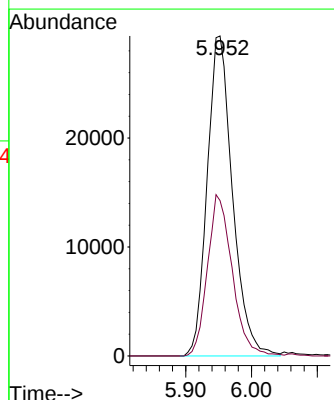
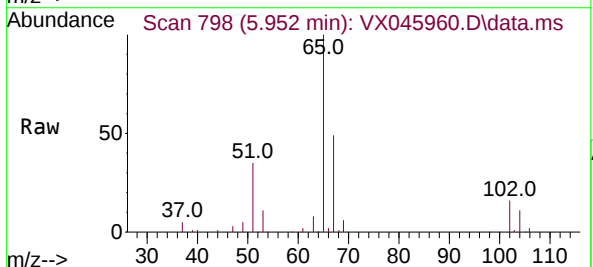
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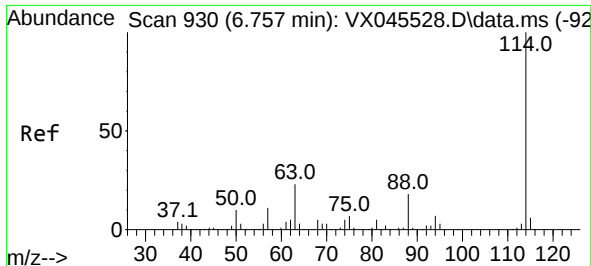
Tgt Ion: 56 Resp: 2245
Ion Ratio Lower Upper
56 100
69 159.1 23.6 35.4#
84 82.3 67.7 101.5



#33
1,2-Dichloroethane-d4
Concen: 54.617 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 65 Resp: 78722
Ion Ratio Lower Upper
65 100
67 49.2 0.0 99.0

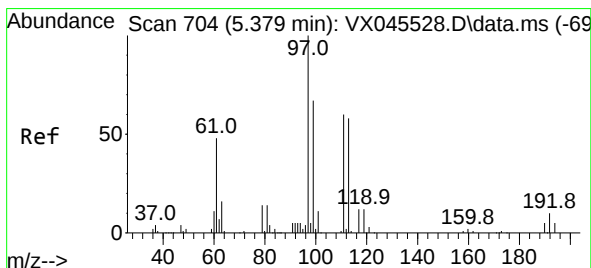
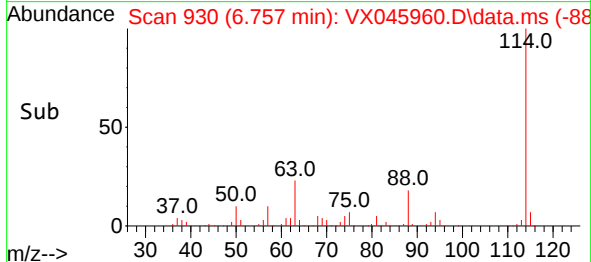
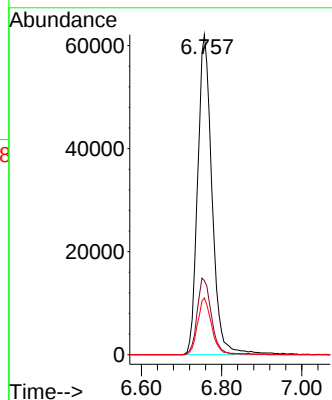
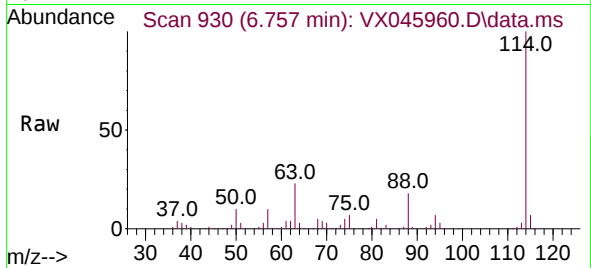




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

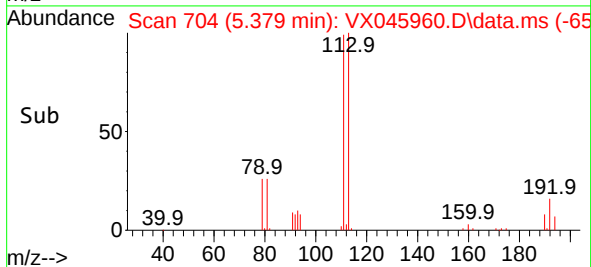
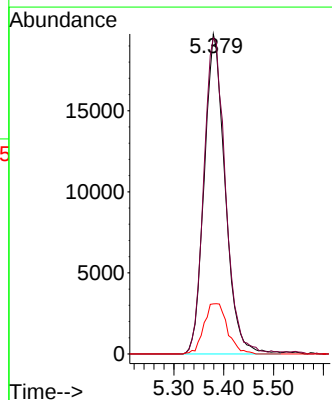
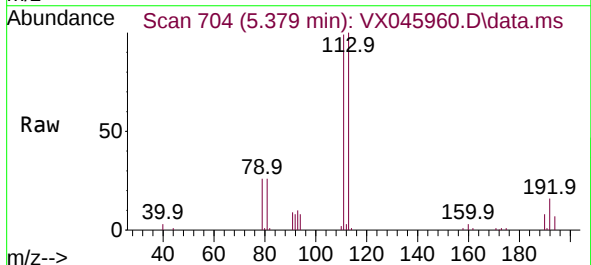
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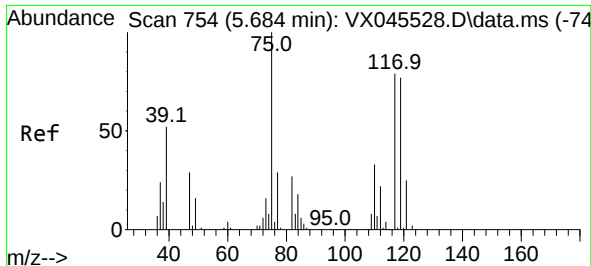
Tgt Ion:114 Resp: 154672
Ion Ratio Lower Upper
114 100
63 23.1 0.0 46.8
88 17.8 0.0 35.4



#35
Dibromofluoromethane
Concen: 52.246 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion:113 Resp: 57335
Ion Ratio Lower Upper
113 100
111 102.9 81.8 122.6
192 17.6 13.8 20.6





#36

1,1-Dichloropropene

Concen: 5.176 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX045960.D

Acq: 28 Apr 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

MH-H

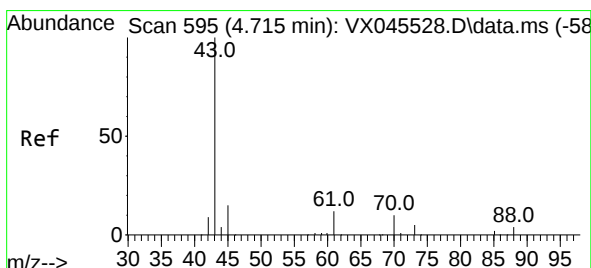
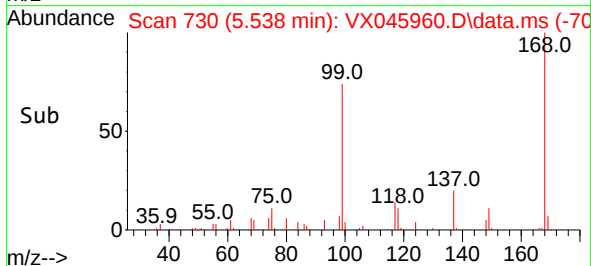
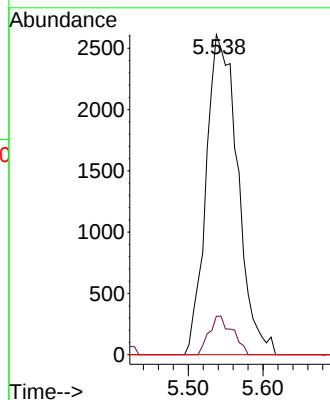
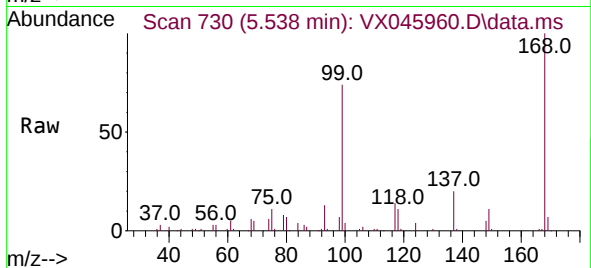
Tgt Ion: 75 Resp: 7670

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 2.389 ug/l

RT: 4.587 min Scan# 574

Delta R.T. -0.128 min

Lab File: VX045960.D

Acq: 28 Apr 2025 16:36

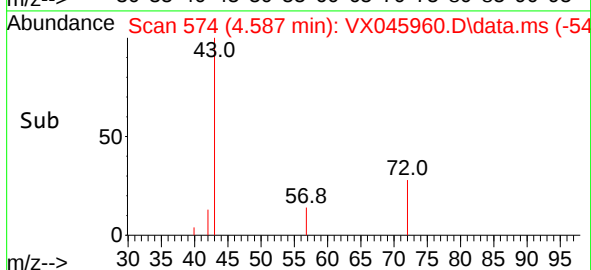
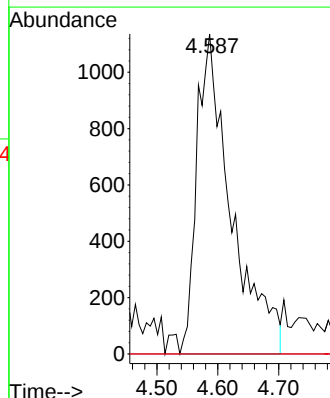
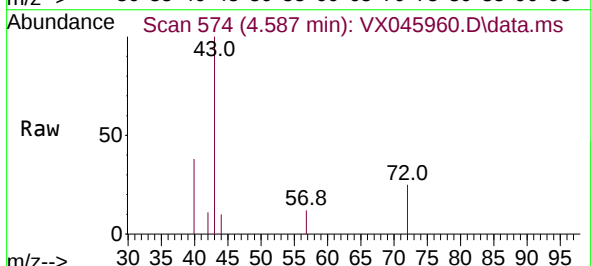
Tgt Ion: 43 Resp: 4460

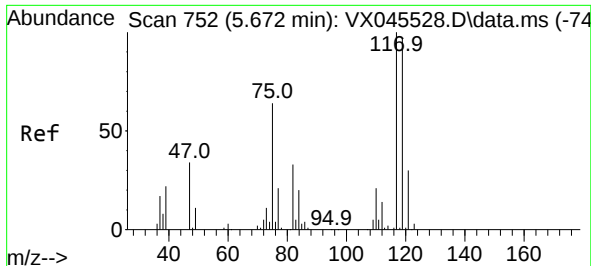
Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

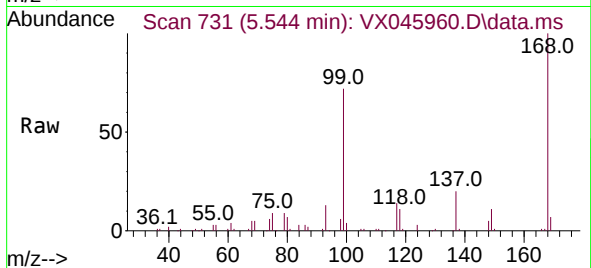
70 0.0 7.5 11.3#



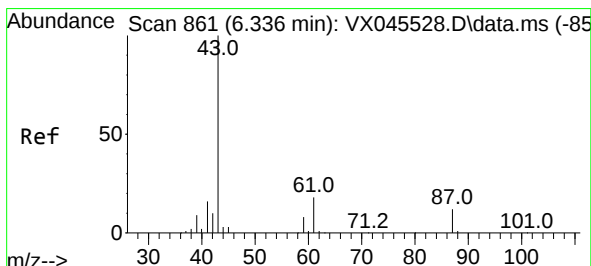
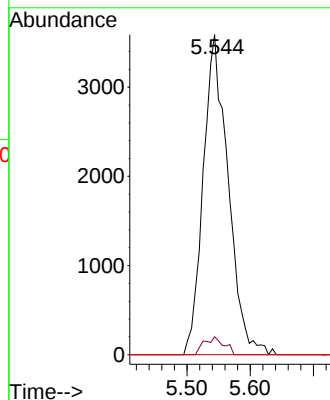
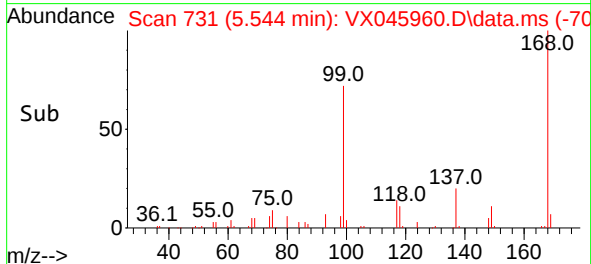


#38
Carbon Tetrachloride
Concen: 6.144 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

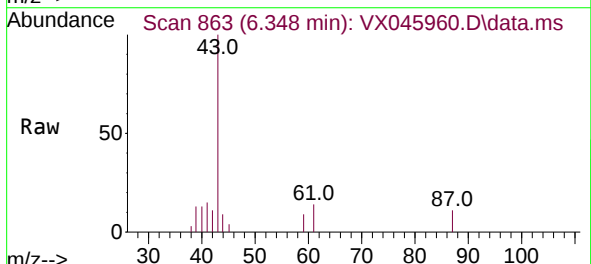
Instrument :
MSVOA_X
ClientSampleId :
MH-H



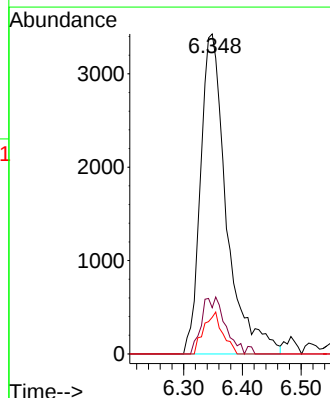
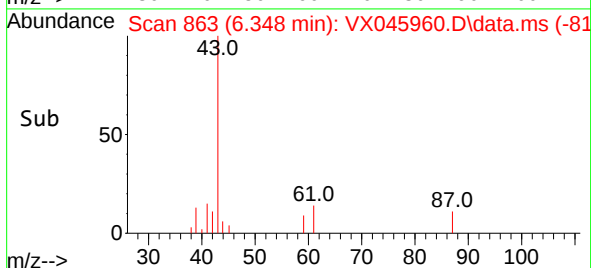
Tgt Ion:117 Resp: 9839
Ion Ratio Lower Upper
117 100
119 5.6 76.9 115.3#
121 0.0 24.2 36.2#

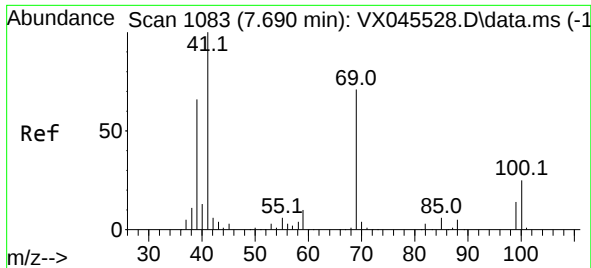


#43
Isopropyl Acetate
Concen: 3.721 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.012 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36



Tgt Ion: 43 Resp: 10531
Ion Ratio Lower Upper
43 100
61 16.0 14.1 21.1
87 9.4 9.2 13.8

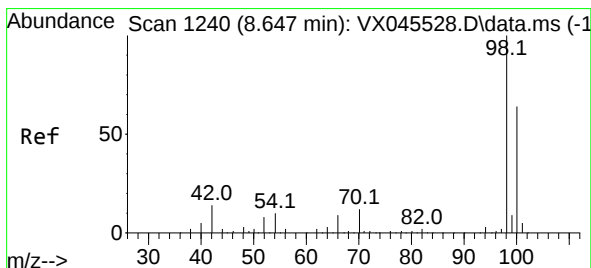
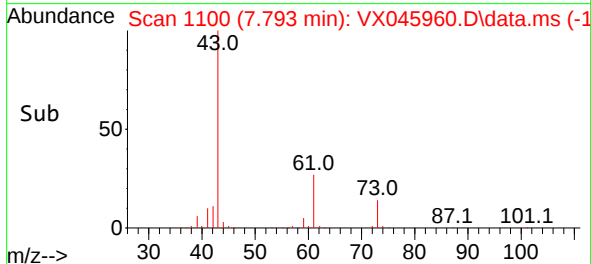
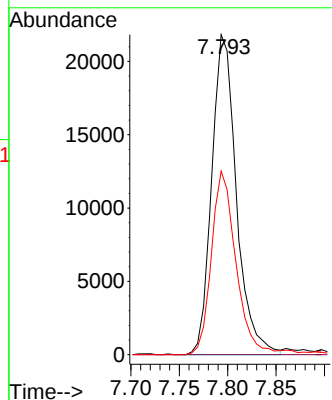
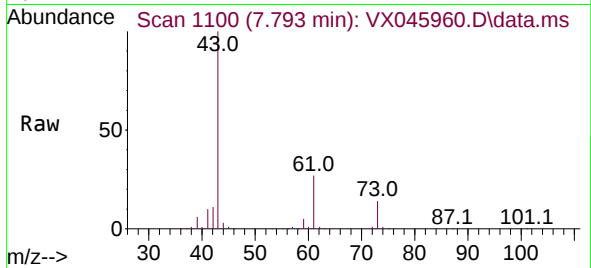




#48
Methyl methacrylate
Concen: 26.531 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

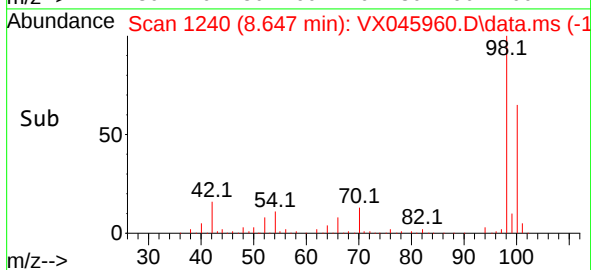
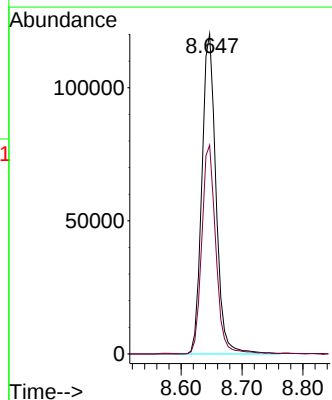
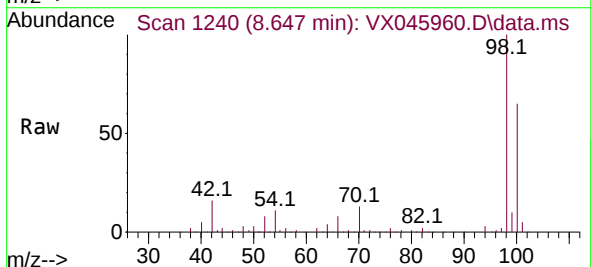
Instrument :
MSVOA_X
ClientSampleId :
MH-H

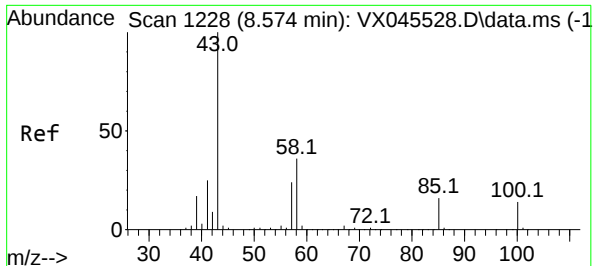
Tgt Ion: 41 Resp: 38767
Ion Ratio Lower Upper
41 100
69 0.0 58.2 87.2#
39 57.8 53.6 80.4



#50
Toluene-d8
Concen: 50.554 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 98 Resp: 193640
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.4

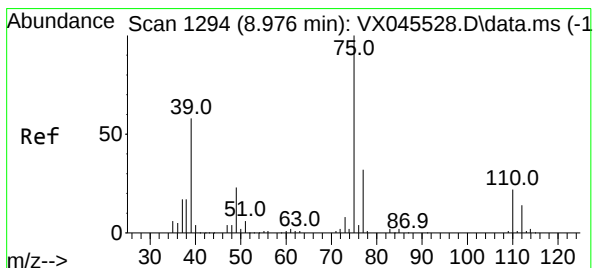
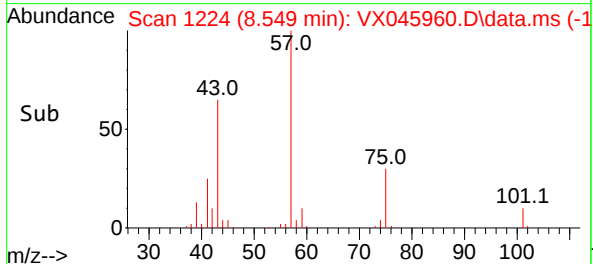
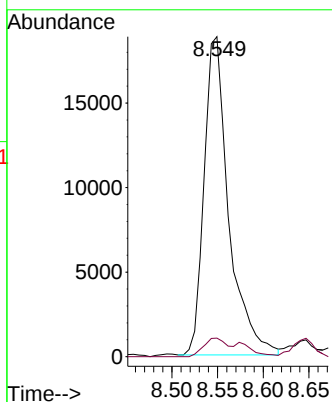
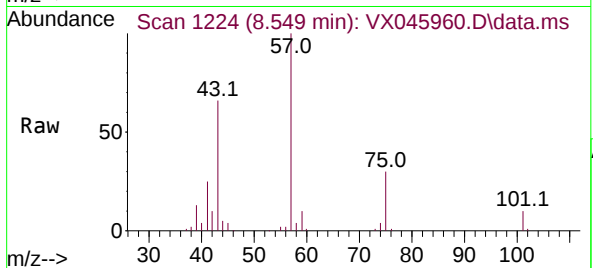




#51
4-Methyl-2-Pentanone
Concen: 18.782 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

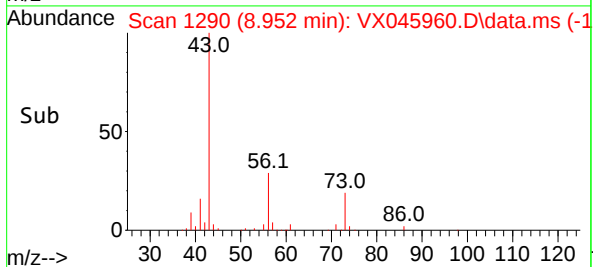
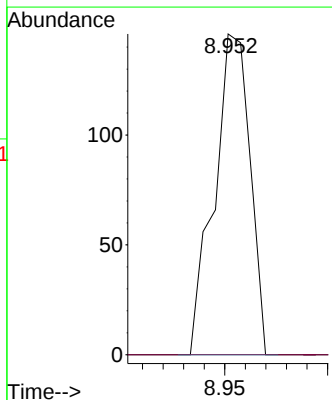
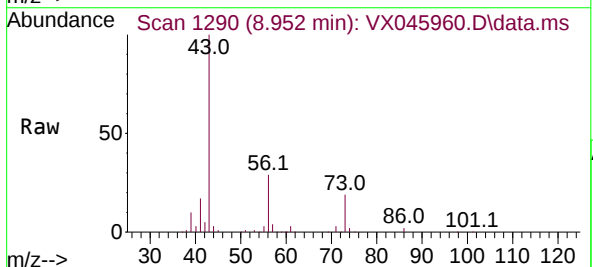
Instrument :
MSVOA_X
ClientSampleId :
MH-H

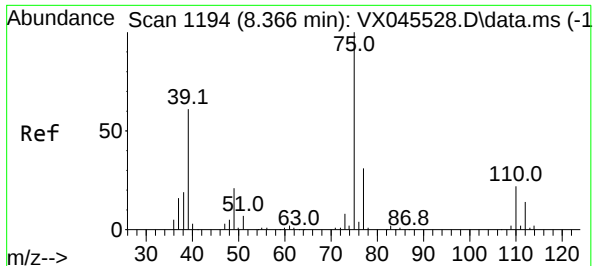
Tgt Ion: 43 Resp: 35238
Ion Ratio Lower Upper
43 100
58 5.8 28.5 42.7#



#53
t-1,3-Dichloropropene
Concen: 2.391 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 75 Resp: 177
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

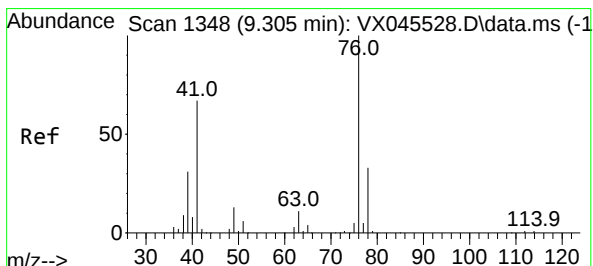
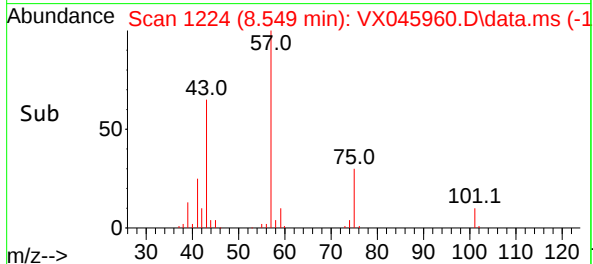
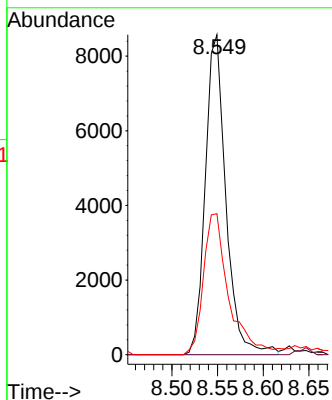
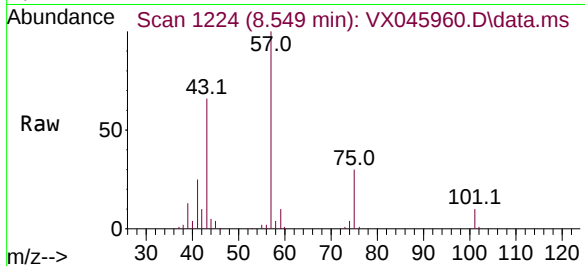




#54
cis-1,3-Dichloropropene
Concen: 8.244 ug/l
RT: 8.549 min Scan# 1194
Delta R.T. 0.183 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

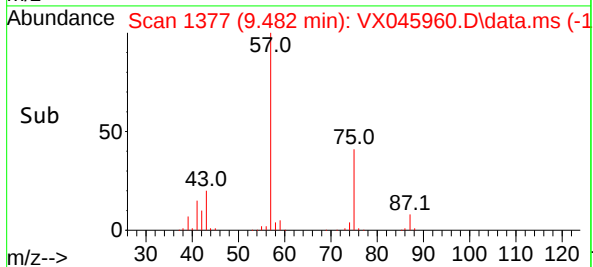
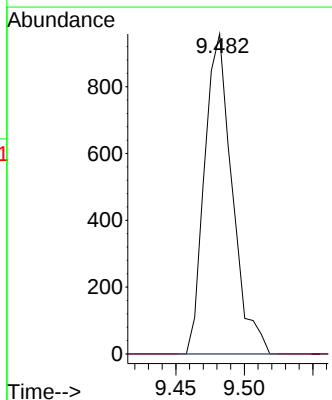
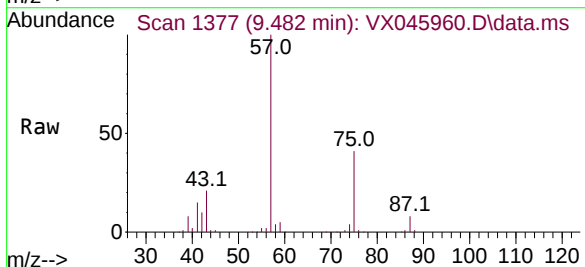
Instrument :
MSVOA_X
ClientSampleId :
MH-H

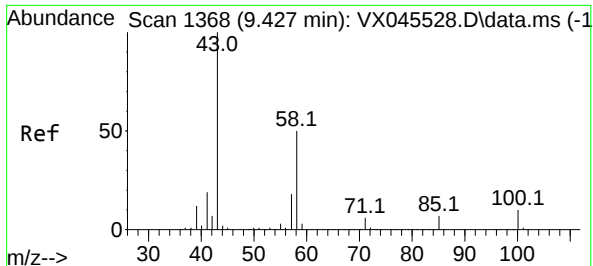
Tgt Ion: 75 Resp: 13409
Ion Ratio Lower Upper
75 100
77 0.0 24.6 36.8#
39 44.1 48.4 72.6#



#57
1,3-Dichloropropane
Concen: 0.707 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 76 Resp: 1344
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

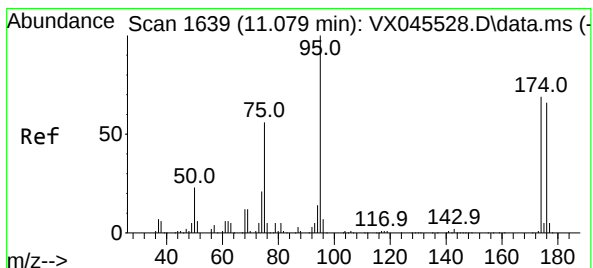
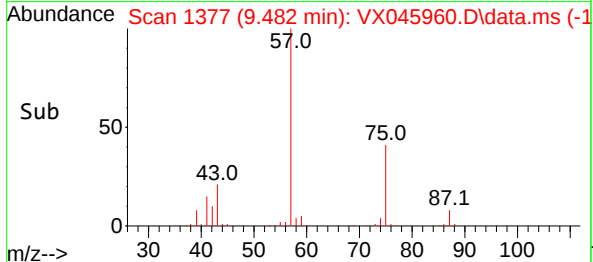
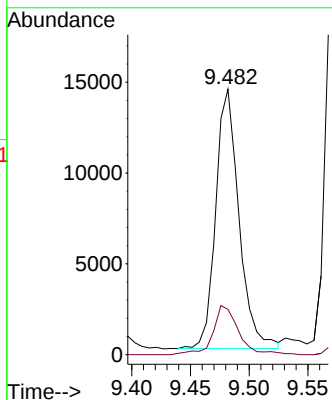
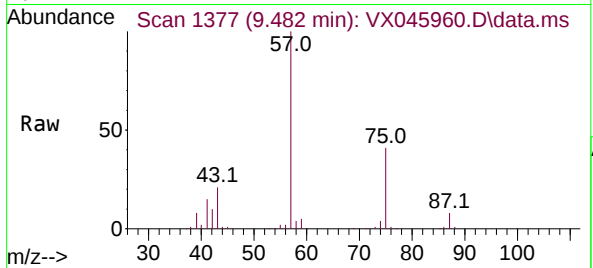




#59
2-Hexanone
Concen: 14.208 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

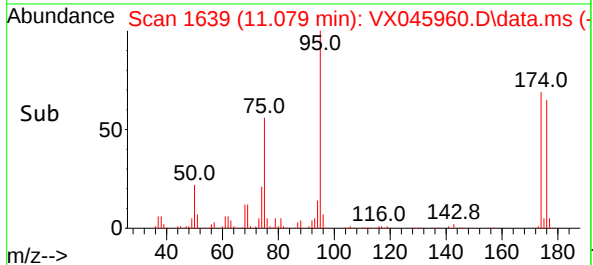
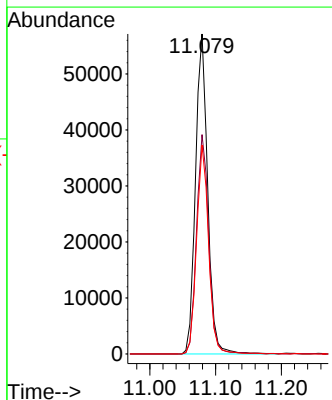
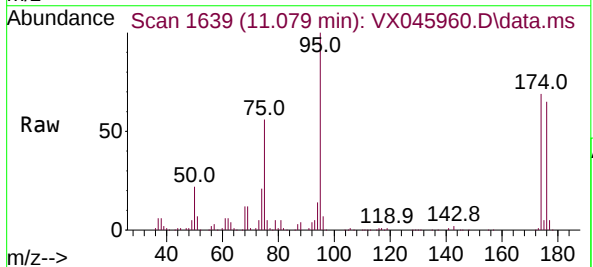
Instrument :
MSVOA_X
ClientSampleId :
MH-H

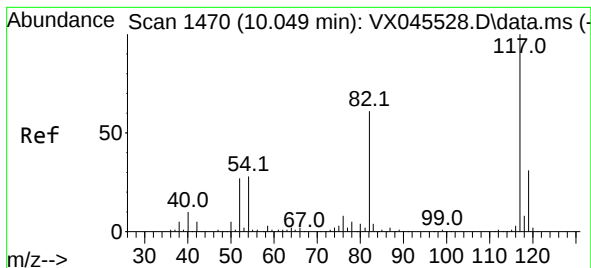
Tgt Ion: 43 Resp: 19739
Ion Ratio Lower Upper
43 100
58 20.7 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 52.391 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045960.D
Acq: 28 Apr 2025 16:36

Tgt Ion: 95 Resp: 73096
Ion Ratio Lower Upper
95 100
174 68.9 0.0 135.8
176 64.2 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: VX045960.D

Acq: 28 Apr 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

MH-H

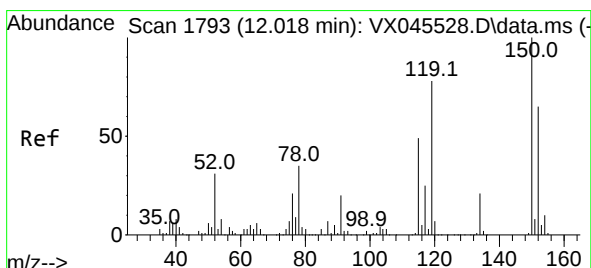
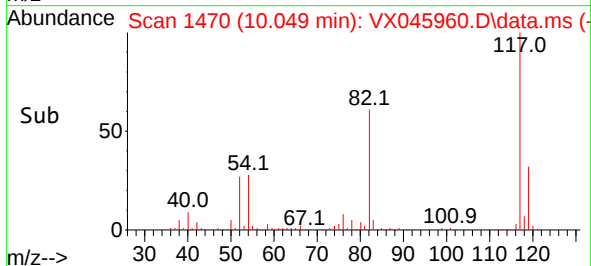
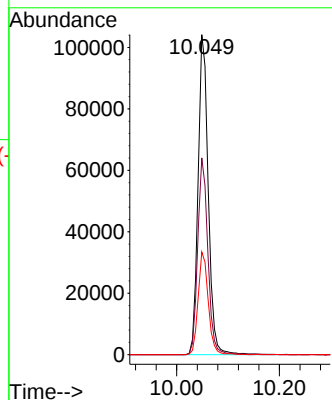
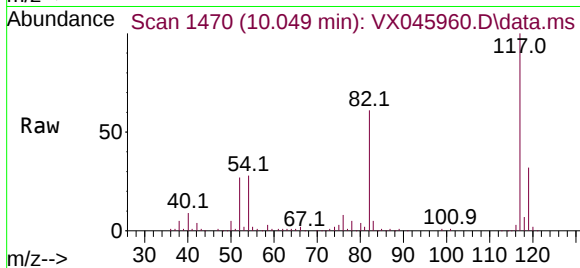
Tgt Ion:117 Resp: 143373

Ion Ratio Lower Upper

117 100

82 61.5 49.2 73.8

119 32.1 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX045960.D

Acq: 28 Apr 2025 16:36

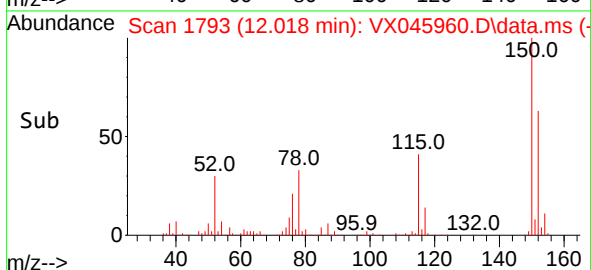
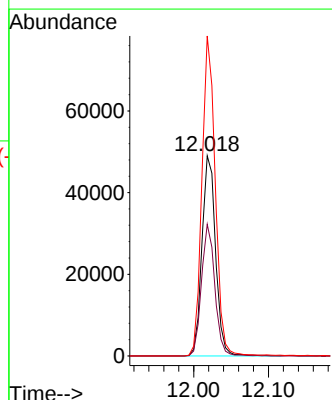
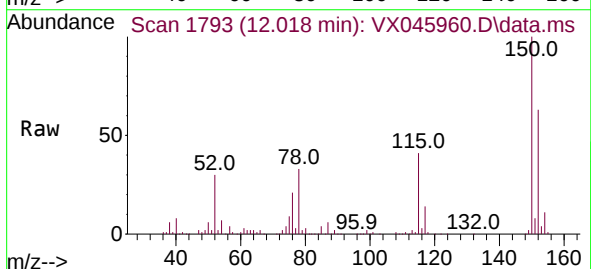
Tgt Ion:152 Resp: 62186

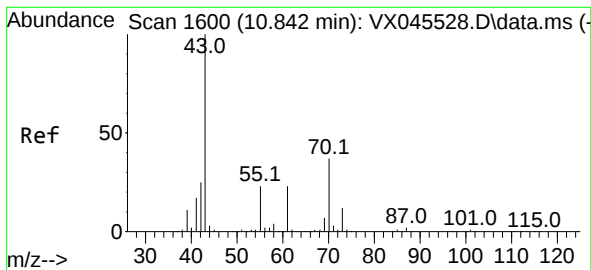
Ion Ratio Lower Upper

152 100

115 64.4 46.9 140.7

150 156.7 0.0 349.4





#74

N-amyI acetate

Concen: 0.512 ug/l

RT: 10.781 min Scan# 1

Delta R.T. -0.061 min

Lab File: VX045960.D

Acq: 28 Apr 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

MH-H

Tgt Ion: 43 Resp: 1221

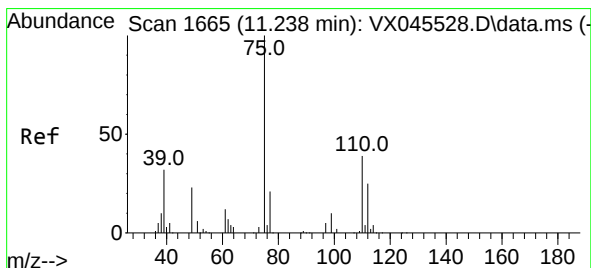
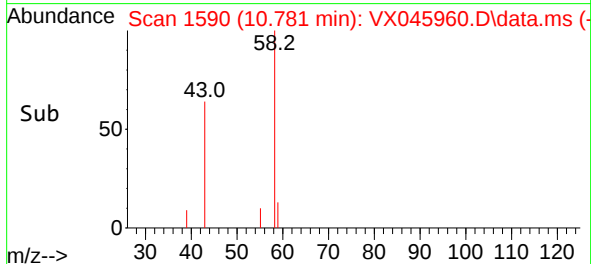
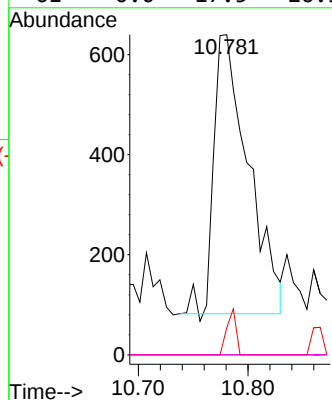
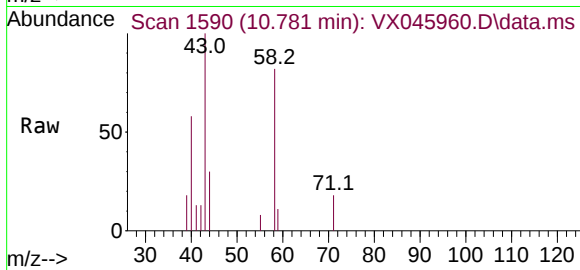
Ion Ratio Lower Upper

43 100

70 0.0 30.1 45.1#

55 4.3 18.3 27.5#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 27.598 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX045960.D

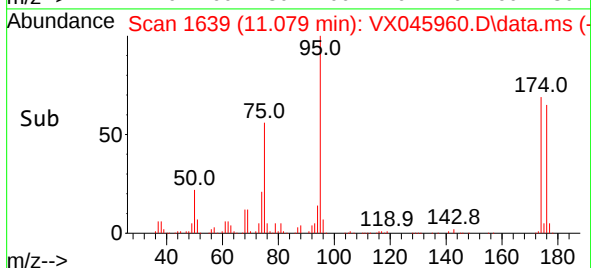
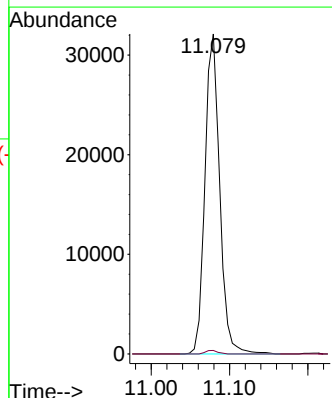
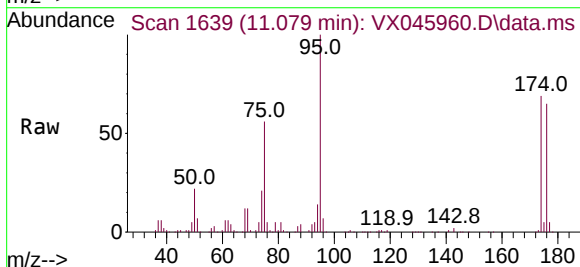
Acq: 28 Apr 2025 16:36

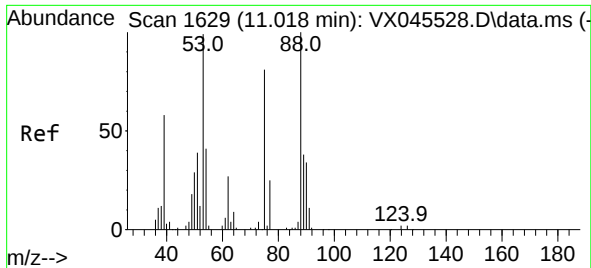
Tgt Ion: 75 Resp: 41862

Ion Ratio Lower Upper

75 100

77 0.9 20.0 59.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.663 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045960.D
 Acq: 28 Apr 2025 16:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-H

Tgt Ion: 75 Resp: 41862
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 37.2 55.8#

