

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046647.D
 Acq On : 11 Jun 2025 18:59
 Operator : JC/MD
 Sample : Q2273-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-4

Quant Time: Jun 12 02:35:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

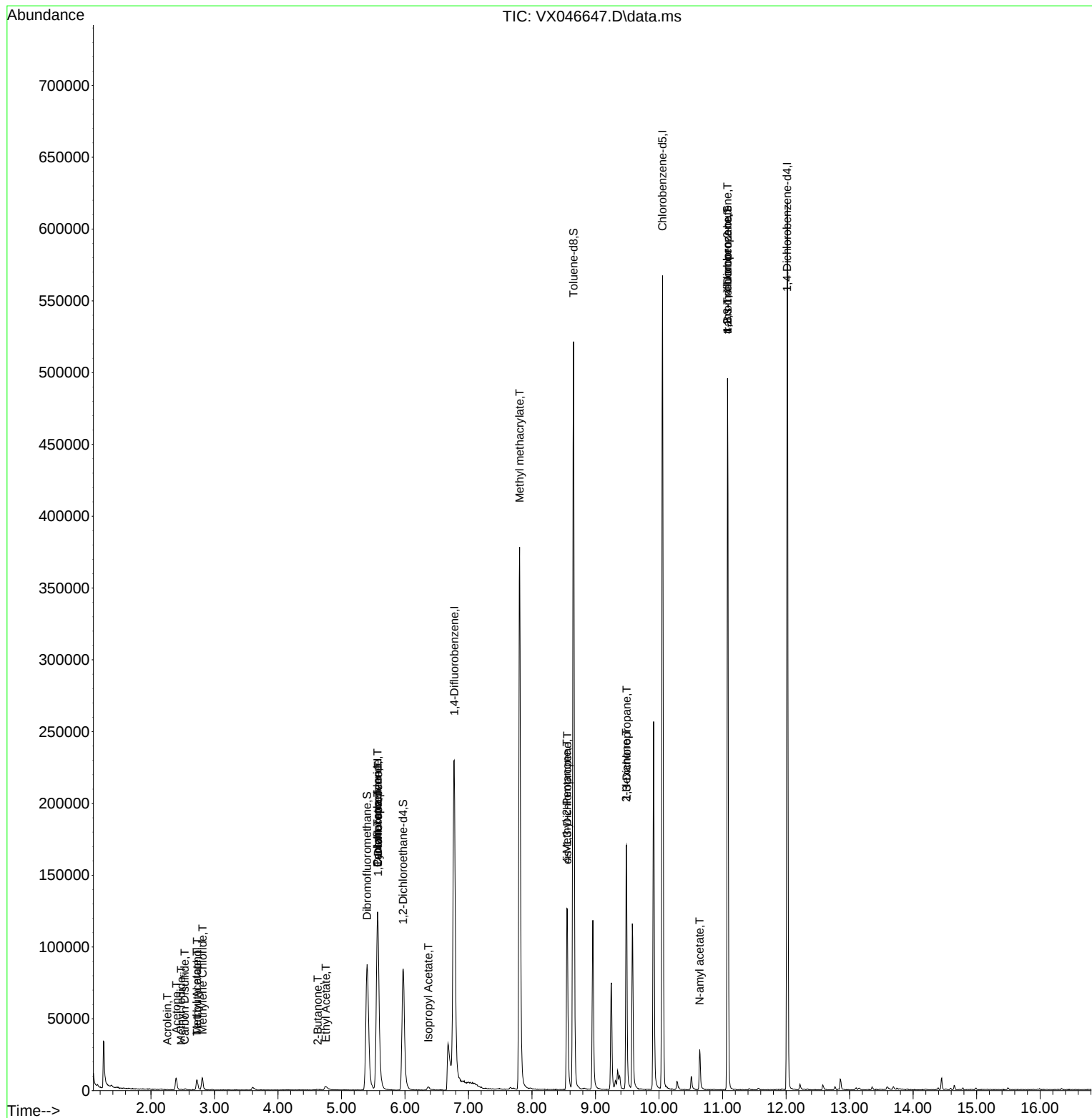
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	122059	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	234404	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	245538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	126422	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	90118	41.499	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	83.000%
35) Dibromofluoromethane	5.403	113	85156	49.400	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.800%
50) Toluene-d8	8.653	98	309815	54.515	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	109.020%
62) 4-Bromofluorobenzene	11.079	95	129279	54.980	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	109.960%
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.477	142	519	0.299	ug/l #	65
11) Tert butyl alcohol	2.727	59	812	3.370	ug/l #	72
13) Acrolein	2.258	56	23	30.075	ug/l #	27
16) Acetone	2.398	43	10842	17.075	ug/l	90
17) Carbon Disulfide	2.532	76	451	0.348	ug/l #	76
18) Methyl Acetate	2.721	43	10156	3.926	ug/l	97
20) Methylene Chloride	2.812	84	3889	2.232	ug/l #	78
25) 2-Butanone	4.623	43	931	0.770	ug/l #	53
31) Cyclohexane	5.568	56	2780	1.101	ug/l #	1
36) 1,1-Dichloropropene	5.574	75	9784	3.973	ug/l #	43
37) Ethyl Acetate	4.751	43	5438	2.263	ug/l #	96
38) Carbon Tetrachloride	5.568	117	12990	4.710	ug/l #	18
43) Isopropyl Acetate	6.367	43	3919	0.935	ug/l	97
48) Methyl methacrylate	7.805	41	35786	16.601	ug/l #	47
51) 4-Methyl-2-Pentanone	8.549	43	47855	17.975	ug/l #	51
54) cis-1,3-Dichloropropene	8.555	75	22772	8.254	ug/l #	53
57) 1,3-Dichloropropane	9.488	76	1691	0.560	ug/l #	42
59) 2-Hexanone	9.482	43	22143	11.597	ug/l #	55
74) N-amyl acetate	10.640	43	7355	1.681	ug/l #	56
76) 1,2,3-Trichloropropane	11.079	75	66466	24.821	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	66466	71.600	ug/l #	1

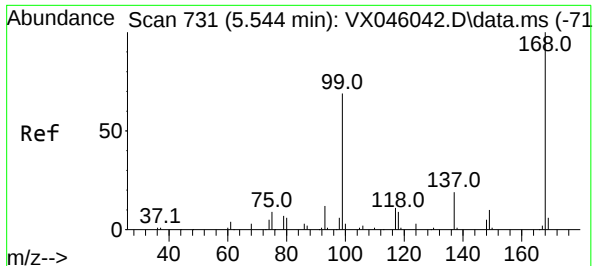
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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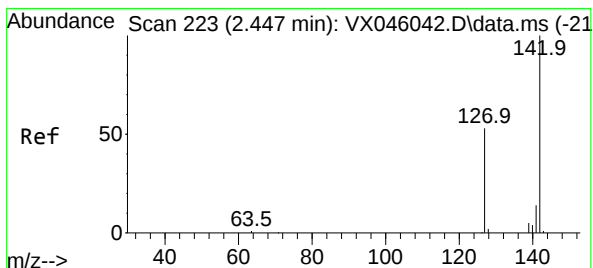
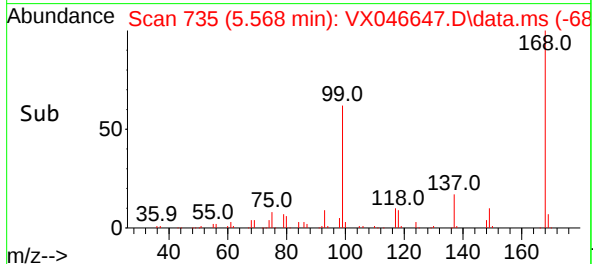
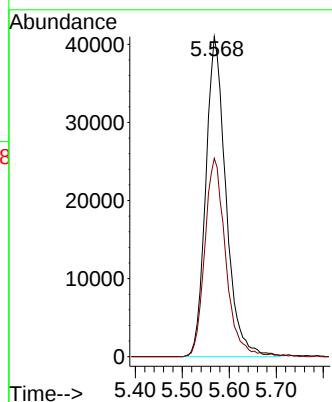
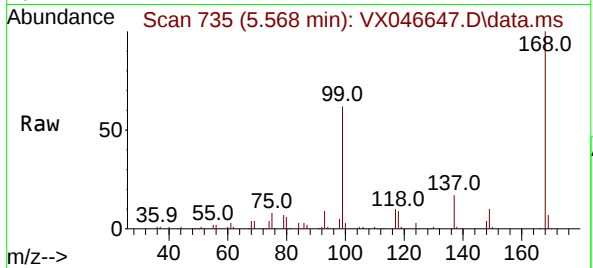




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

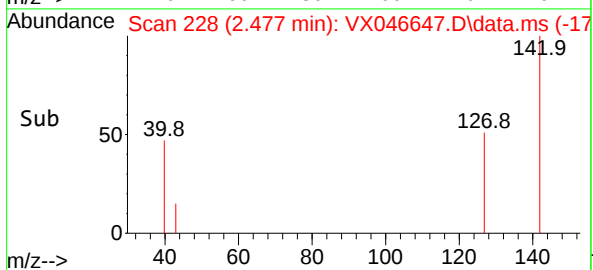
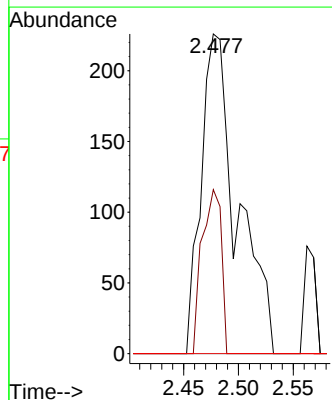
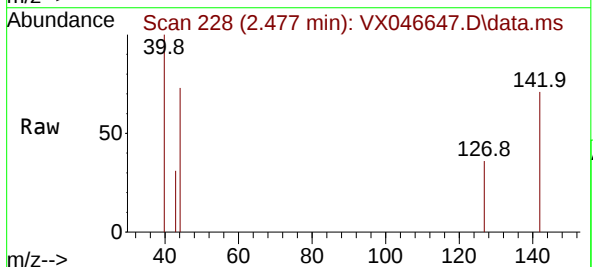
Instrument :
MSVOA_X
ClientSampleId :
WC-4

Tgt Ion:168 Resp: 122059
Ion Ratio Lower Upper
168 100
99 62.0 54.9 82.3



#10
Methyl Iodide
Concen: 0.299 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion:142 Resp: 519
Ion Ratio Lower Upper
142 100
127 27.4 41.7 62.5#
141 0.0 11.5 17.3#





#11

Tert butyl alcohol

Concen: 3.370 ug/l

RT: 2.727 min Scan# 20

Delta R.T. -0.244 min

Lab File: VX046647.D

Acq: 11 Jun 2025 18:59

Instrument :

MSVOA_X

ClientSampleId :

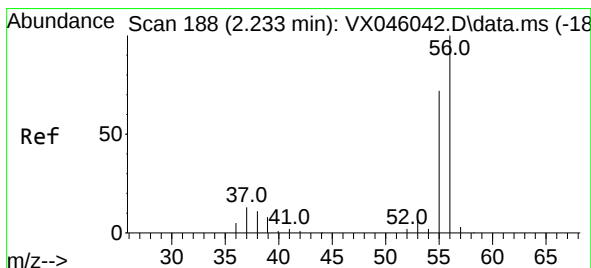
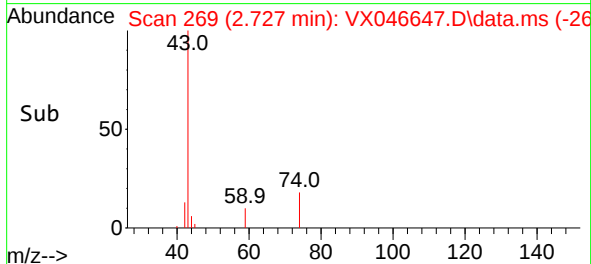
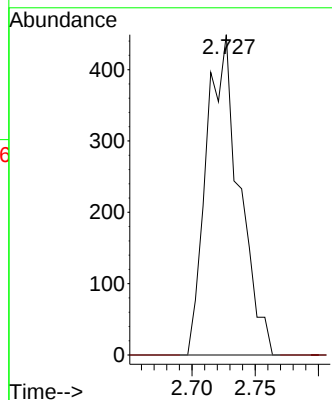
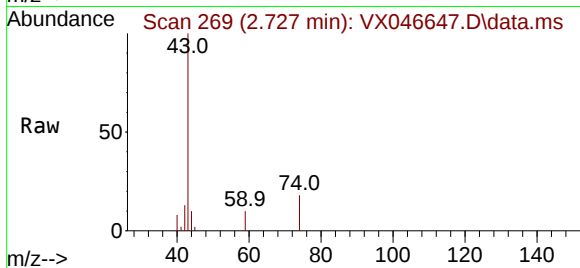
WC-4

Tgt Ion: 59 Resp: 812

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#13

Acrolein

Concen: 30.075 ug/l

RT: 2.258 min Scan# 192

Delta R.T. 0.007 min

Lab File: VX046647.D

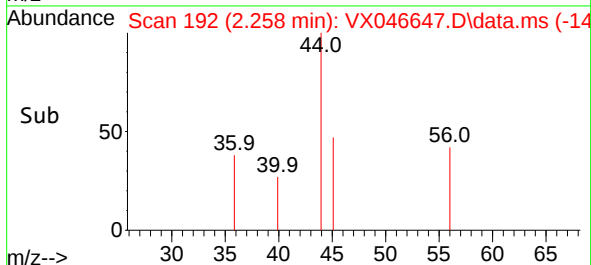
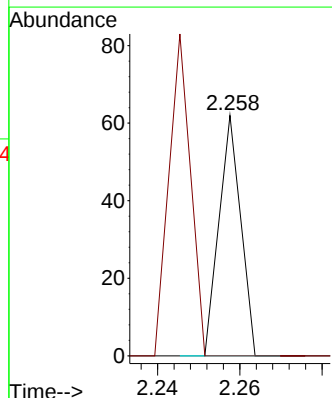
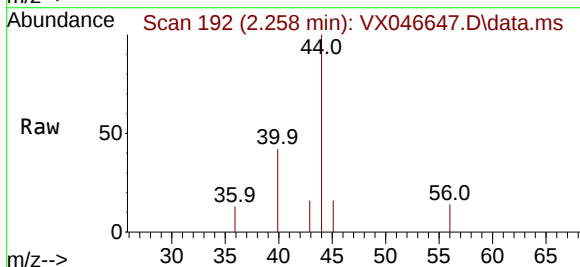
Acq: 11 Jun 2025 18:59

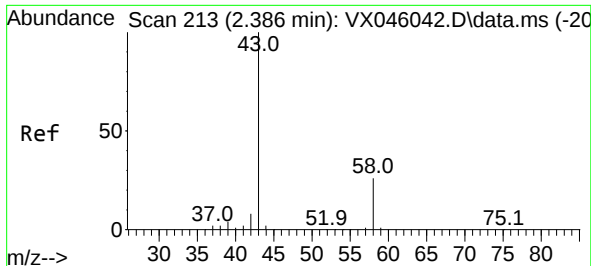
Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

56 100

55 130.4 56.2 84.4#

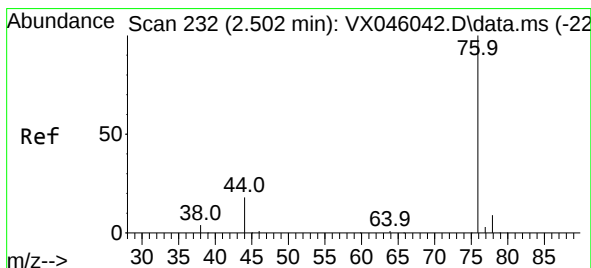
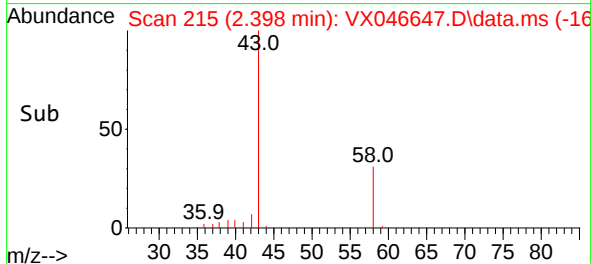
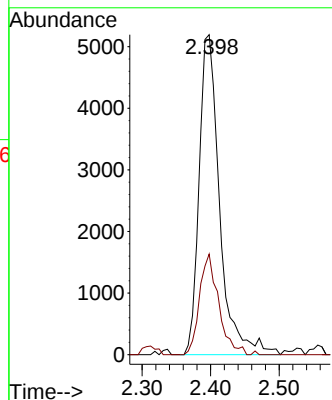
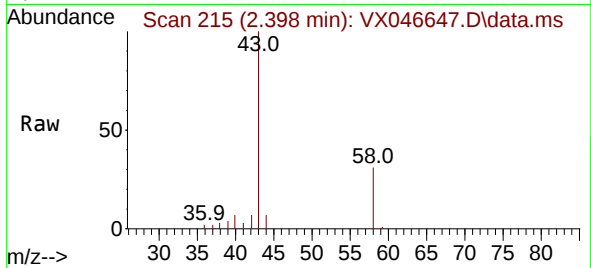




#16
Acetone
Concen: 17.075 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

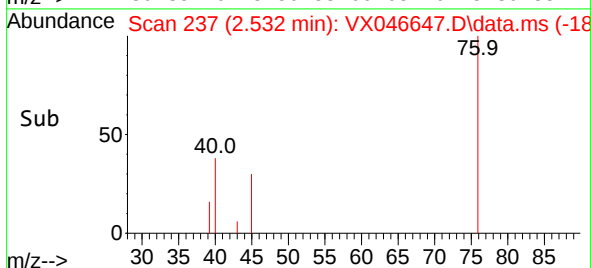
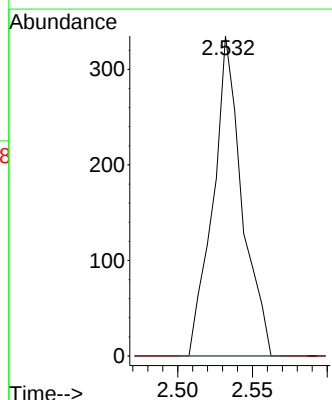
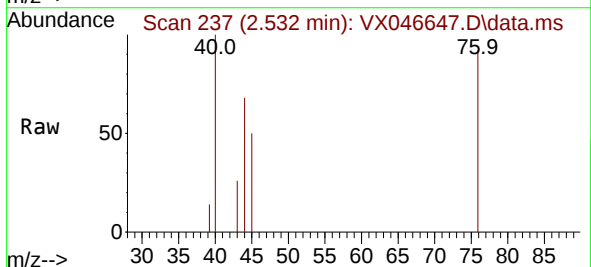
Instrument :
MSVOA_X
ClientSampleId :
WC-4

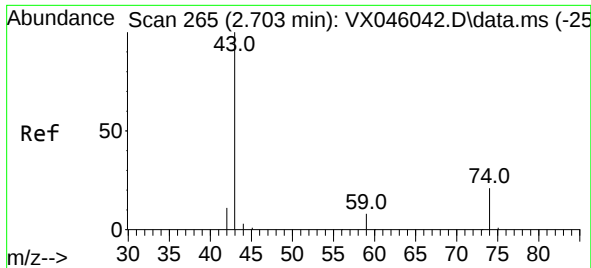
Tgt Ion: 43 Resp: 10842
Ion Ratio Lower Upper
43 100
58 31.5 21.2 31.8



#17
Carbon Disulfide
Concen: 0.348 ug/l
RT: 2.532 min Scan# 237
Delta R.T. -0.000 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion: 76 Resp: 451
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#

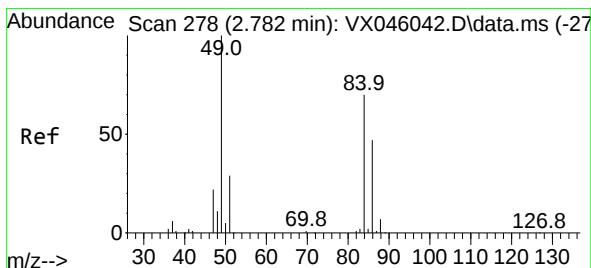
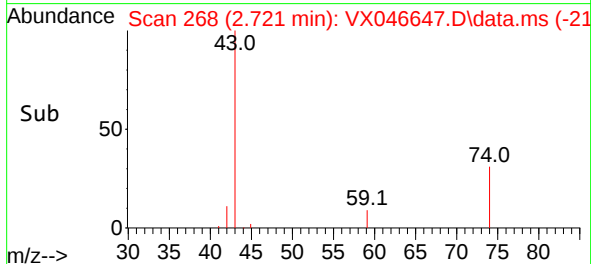
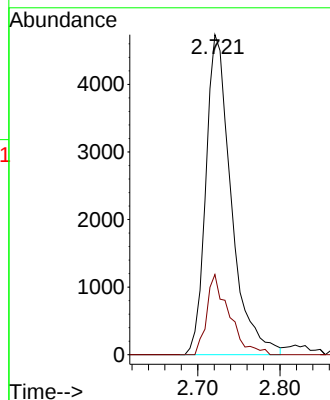
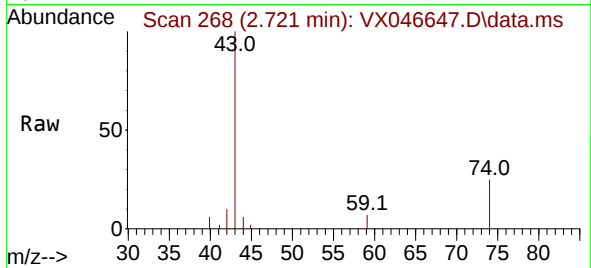




#18
Methyl Acetate
Concen: 3.926 ug/l
RT: 2.721 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

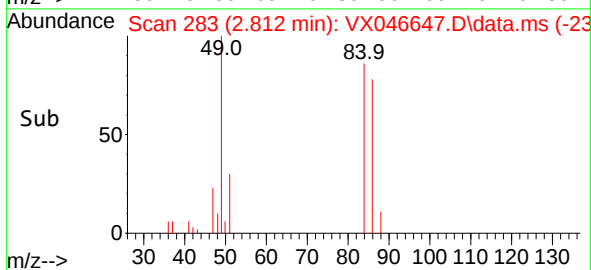
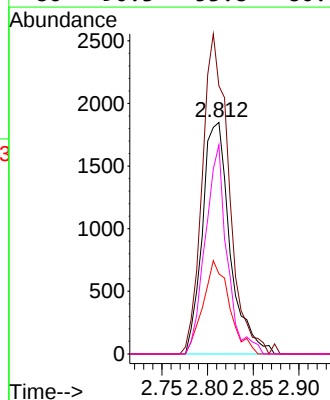
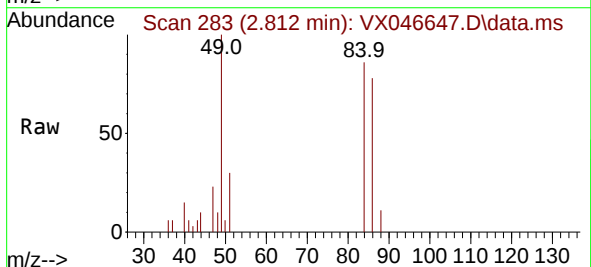
Instrument :
MSVOA_X
ClientSampleId :
WC-4

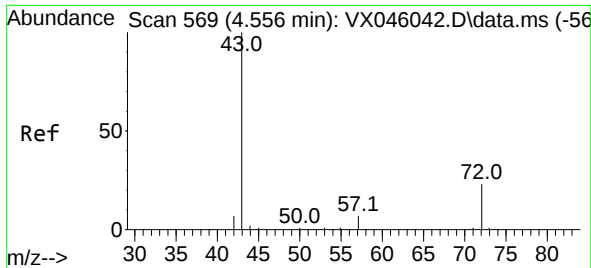
Tgt Ion: 43 Resp: 10156
Ion Ratio Lower Upper
43 100
74 22.2 16.7 25.1



#20
Methylene Chloride
Concen: 2.232 ug/l
RT: 2.812 min Scan# 283
Delta R.T. 0.006 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion: 84 Resp: 3889
Ion Ratio Lower Upper
84 100
49 115.7 113.9 170.9
51 34.6 33.5 50.3
86 90.3 53.8 80.8#

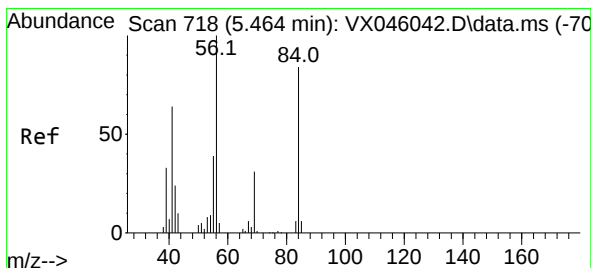
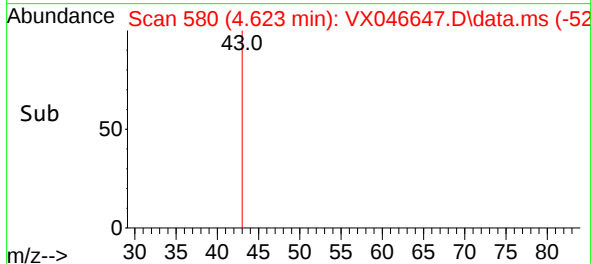
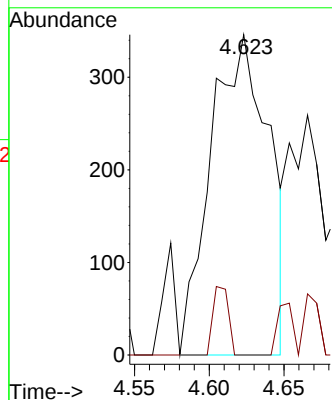
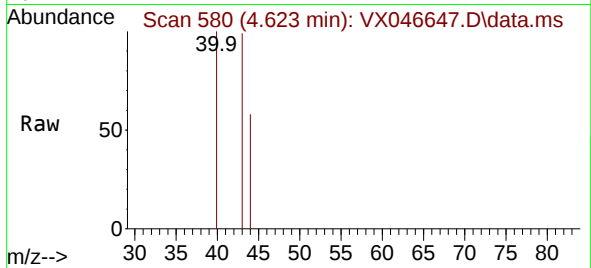




#25
2-Butanone
Concen: 0.770 ug/l
RT: 4.623 min Scan# 51
Delta R.T. 0.049 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

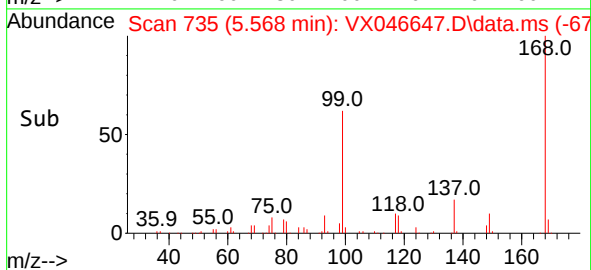
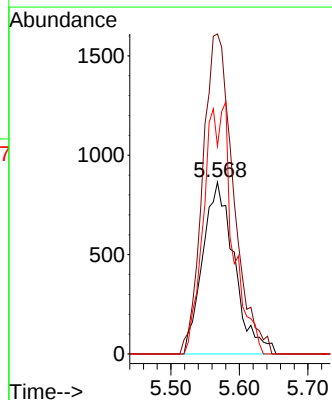
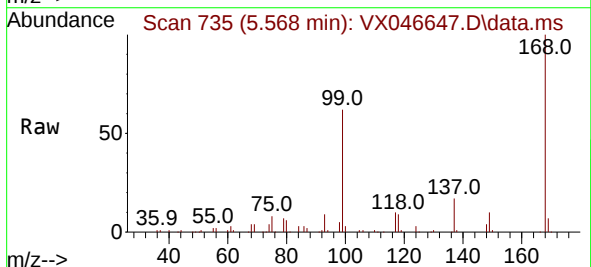
Instrument :
MSVOA_X
ClientSampleId :
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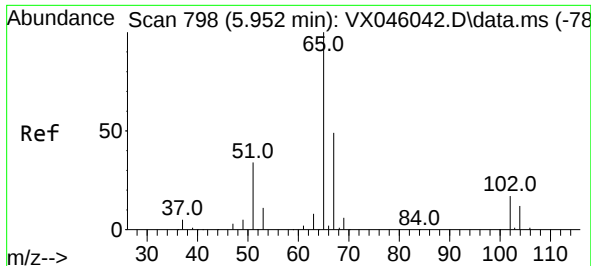
Tgt Ion: 43 Resp: 931
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#



#31
Cyclohexane
Concen: 1.101 ug/l
RT: 5.568 min Scan# 735
Delta R.T. 0.079 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion: 56 Resp: 2780
Ion Ratio Lower Upper
56 100
69 186.1 24.4 36.6#
84 120.9 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 41.499 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046647.D

Acq: 11 Jun 2025 18:59

Instrument :

MSVOA_X

ClientSampleId :

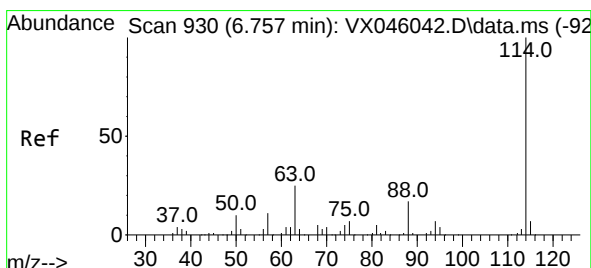
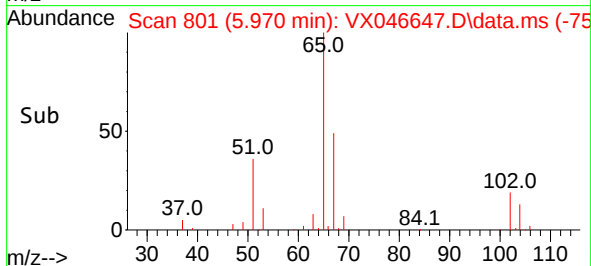
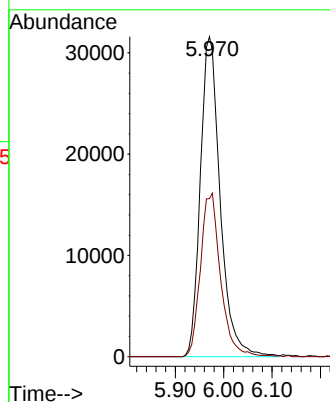
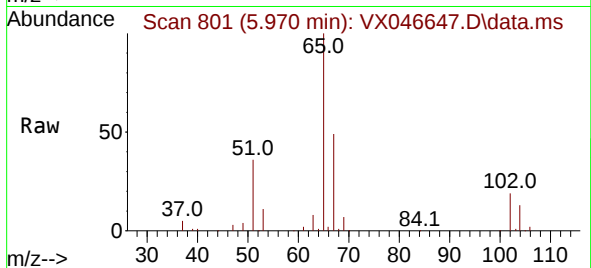
WC-4

Tgt Ion: 65 Resp: 90118

Ion Ratio Lower Upper

65 100

67 51.8 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046647.D

Acq: 11 Jun 2025 18:59

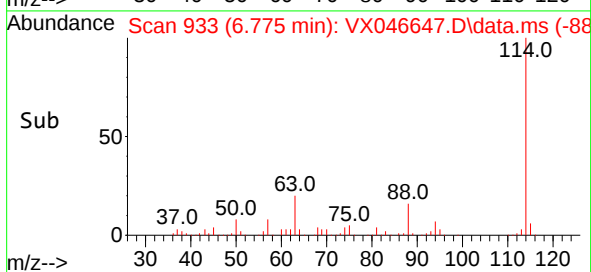
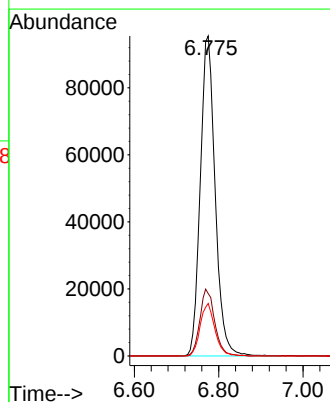
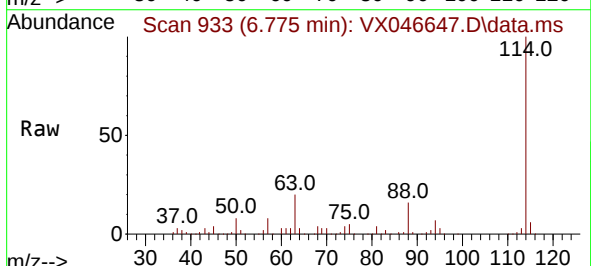
Tgt Ion:114 Resp: 234404

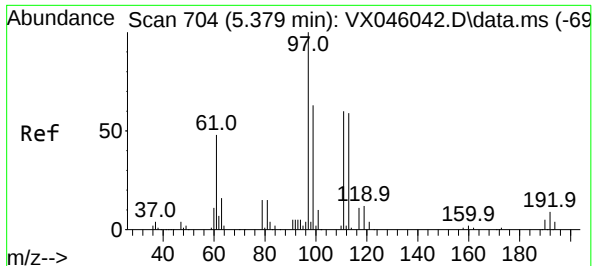
Ion Ratio Lower Upper

114 100

63 19.5 0.0 49.2

88 16.4 0.0 33.6

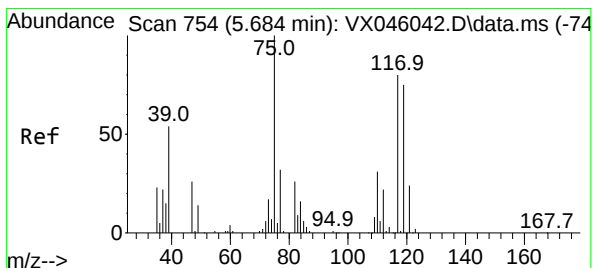
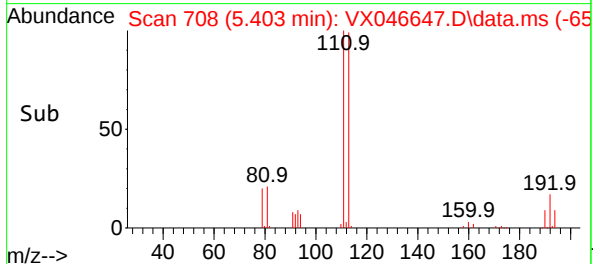
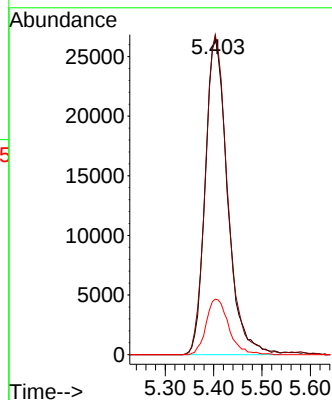
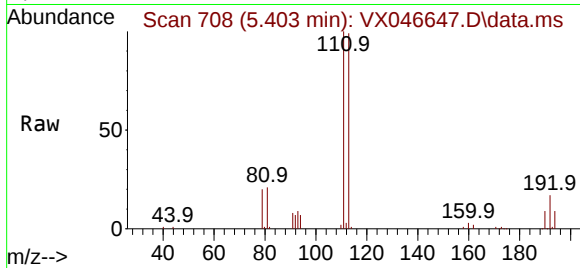




#35
 Dibromofluoromethane
 Concen: 49.400 ug/l
 RT: 5.403 min Scan# 704
 Delta R.T. 0.000 min
 Lab File: VX046647.D
 Acq: 11 Jun 2025 18:59

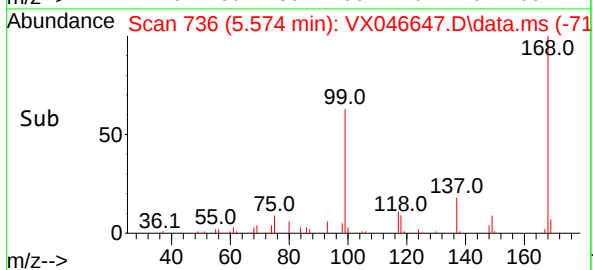
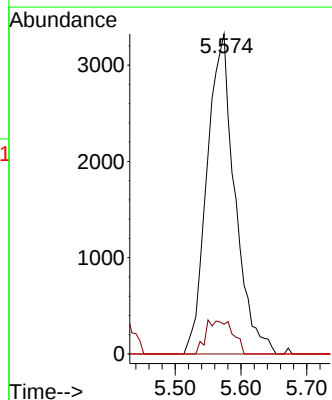
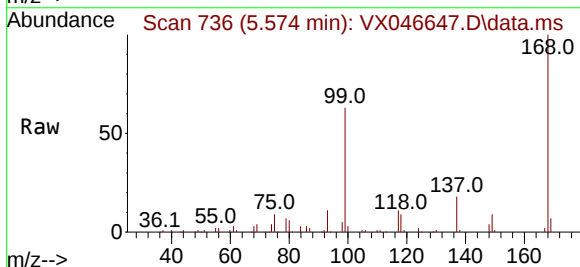
Instrument :
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 ClientSampleId :
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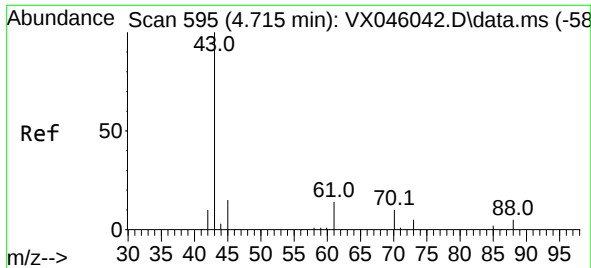
Tgt Ion:113 Resp: 85156
 Ion Ratio Lower Upper
 113 100
 111 101.1 83.1 124.7
 192 17.8 13.3 19.9



#36
 1,1-Dichloropropene
 Concen: 3.973 ug/l
 RT: 5.574 min Scan# 736
 Delta R.T. -0.140 min
 Lab File: VX046647.D
 Acq: 11 Jun 2025 18:59

Tgt Ion: 75 Resp: 9784
 Ion Ratio Lower Upper
 75 100
 110 0.0 16.3 48.9#
 77 0.0 24.3 36.5#

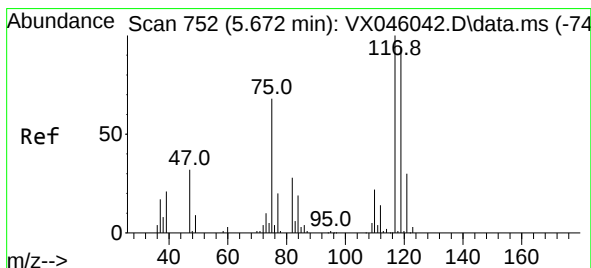
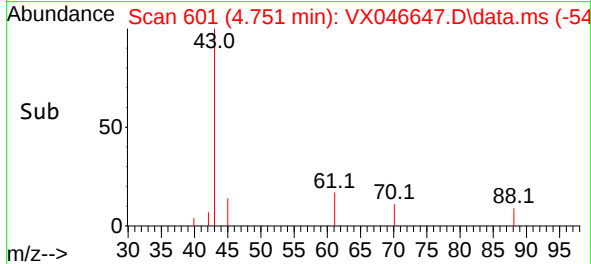
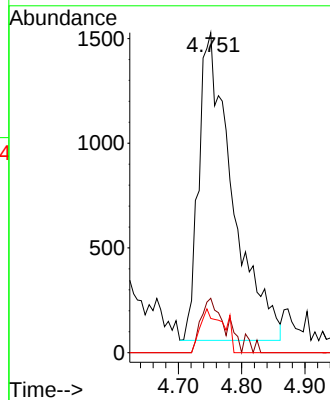
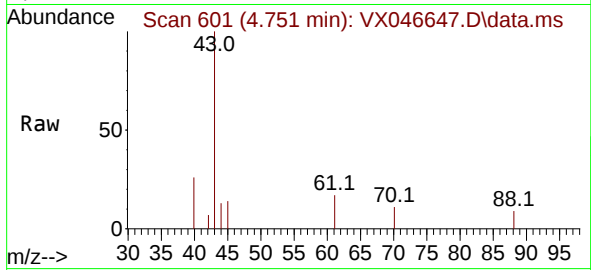




#37
Ethyl Acetate
Concen: 2.263 ug/l
RT: 4.751 min Scan# 601
Delta R.T. 0.018 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

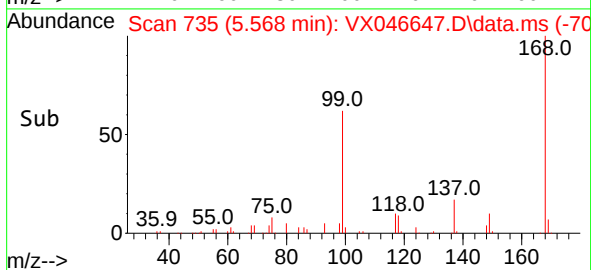
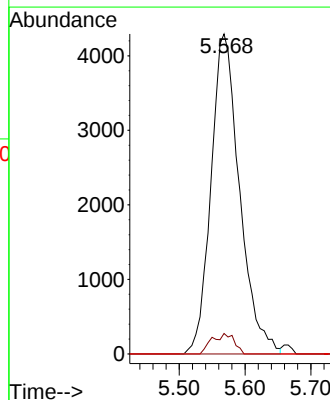
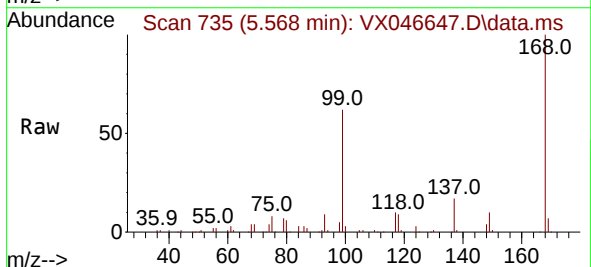
Instrument :
MSVOA_X
ClientSampleId :
WC-4

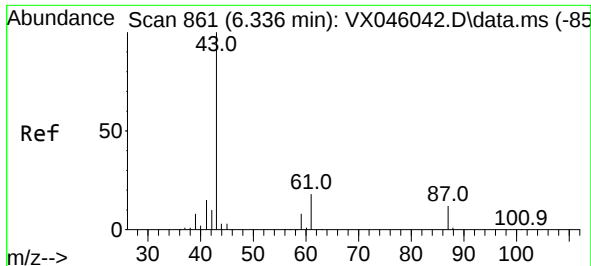
Tgt Ion: 43 Resp: 5438
Ion Ratio Lower Upper
43 100
61 10.2 10.3 15.5#
70 9.7 7.9 11.9



#38
Carbon Tetrachloride
Concen: 4.710 ug/l
RT: 5.568 min Scan# 735
Delta R.T. -0.128 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion: 117 Resp: 12990
Ion Ratio Lower Upper
117 100
119 6.4 75.2 112.8#
121 0.0 24.2 36.4#

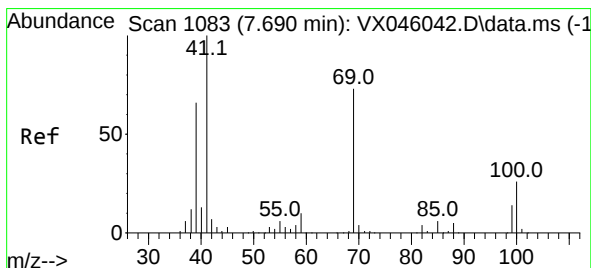
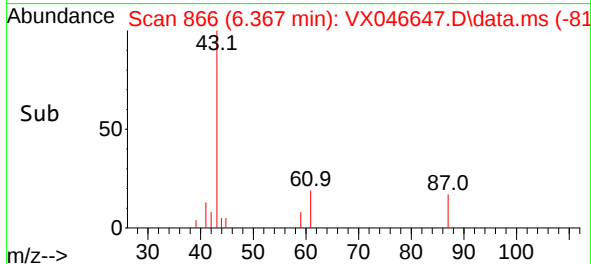
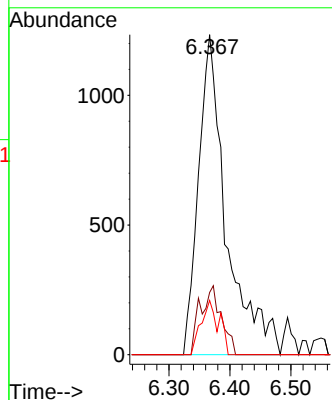
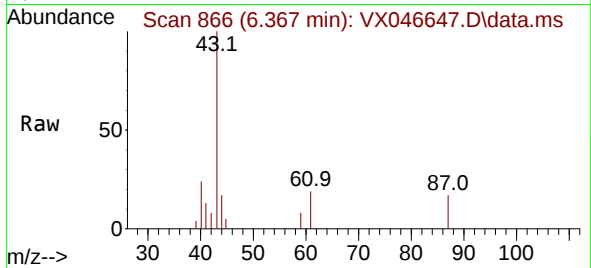




#43
Isopropyl Acetate
Concen: 0.935 ug/l
RT: 6.367 min Scan# 866
Delta R.T. 0.013 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

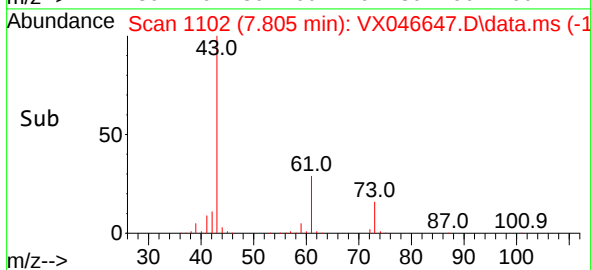
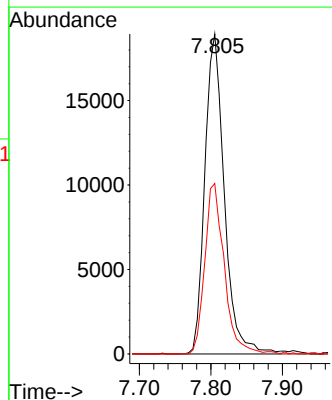
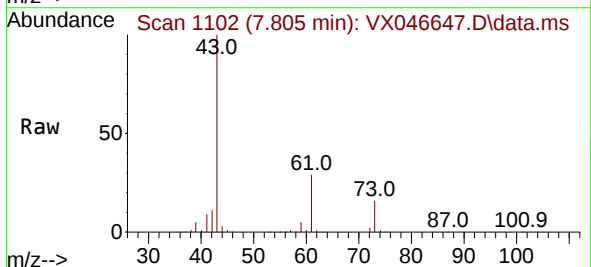
Instrument :
MSVOA_X
ClientSampleId :
WC-4

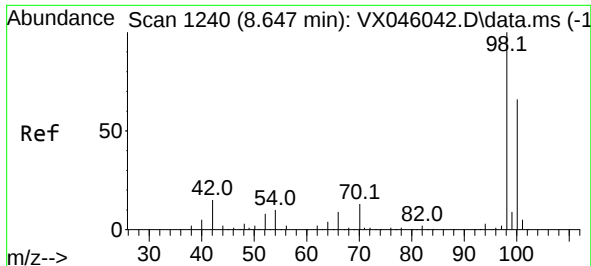
Tgt Ion: 43 Resp: 3919
Ion Ratio Lower Upper
43 100
61 16.4 14.3 21.5
87 10.9 9.5 14.3



#48
Methyl methacrylate
Concen: 16.601 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. 0.103 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion: 41 Resp: 35786
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 53.5 51.7 77.5

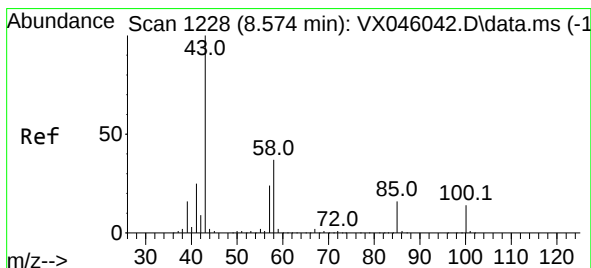
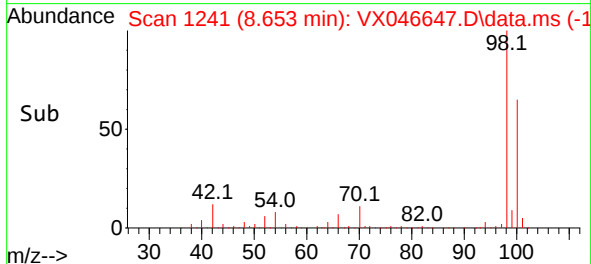
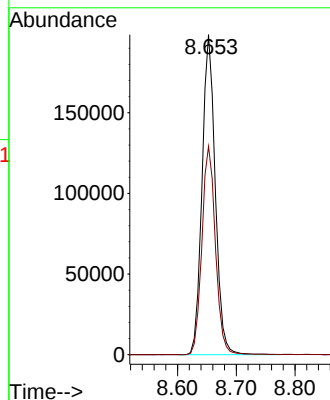
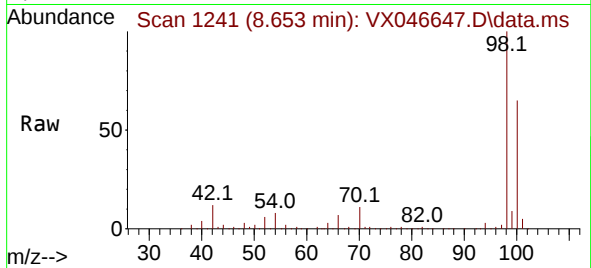




#50
Toluene-d8
Concen: 54.515 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

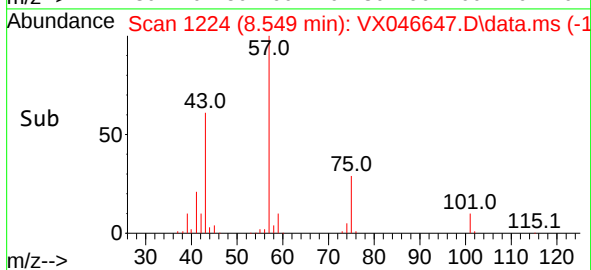
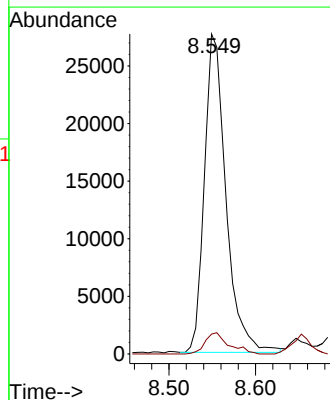
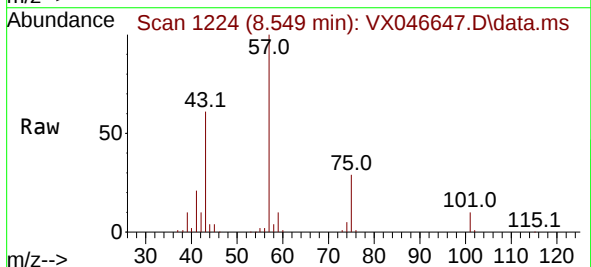
Instrument :
MSVOA_X
ClientSampleId :
WC-4

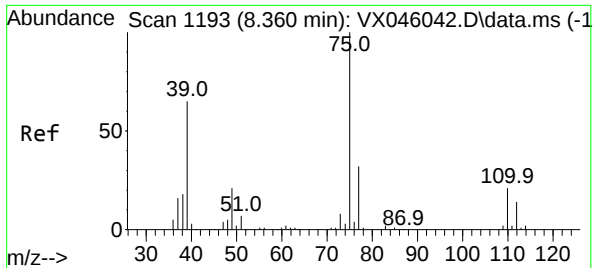
Tgt Ion: 98 Resp: 309815
Ion Ratio Lower Upper
98 100
100 66.7 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 17.975 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion: 43 Resp: 47855
Ion Ratio Lower Upper
43 100
58 7.3 28.9 43.3#

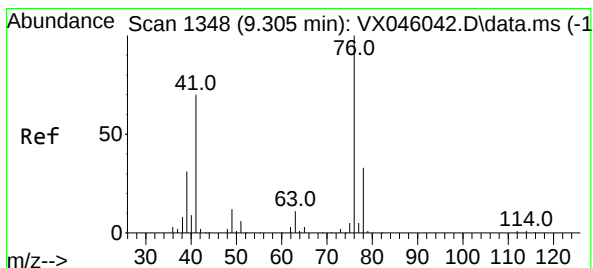
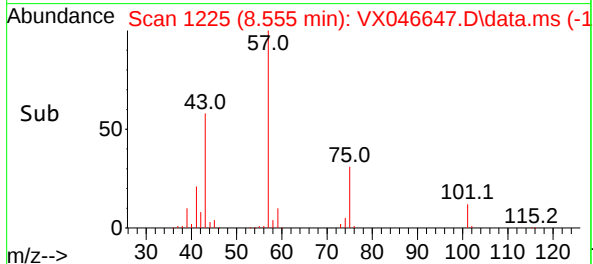
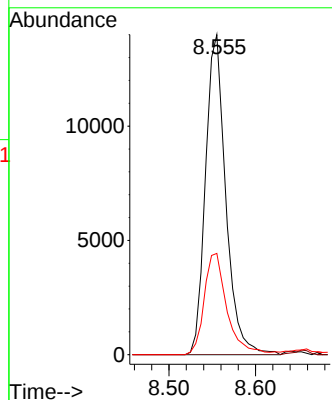
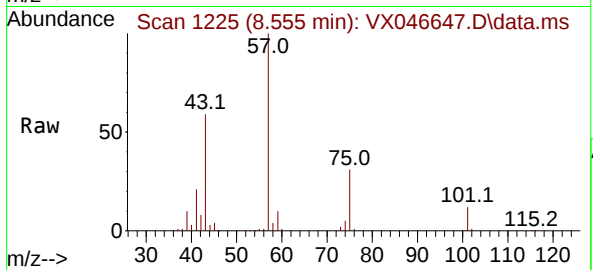




#54
 cis-1,3-Dichloropropene
 Concen: 8.254 ug/l
 RT: 8.555 min Scan# 1193
 Delta R.T. 0.183 min
 Lab File: VX046647.D
 Acq: 11 Jun 2025 18:59

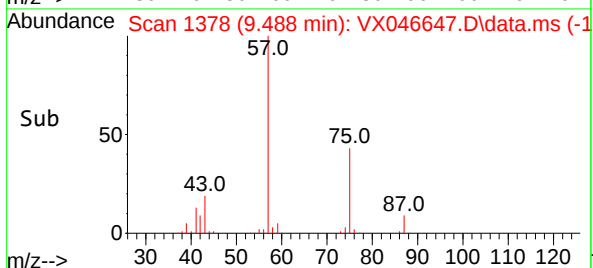
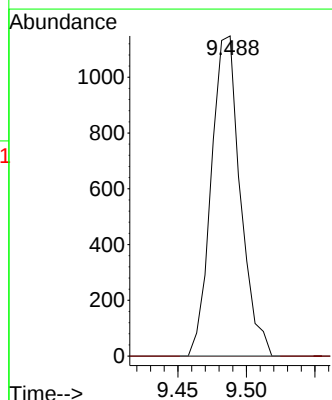
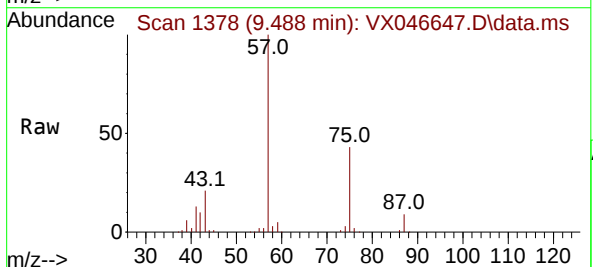
Instrument :
 MSVOA_X
 ClientSampleId :
 WC-4

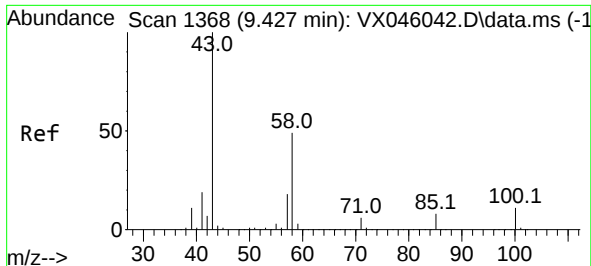
Tgt Ion: 75 Resp: 22772
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.6 52.2 78.4#



#57
 1,3-Dichloropropane
 Concen: 0.560 ug/l
 RT: 9.488 min Scan# 1378
 Delta R.T. 0.177 min
 Lab File: VX046647.D
 Acq: 11 Jun 2025 18:59

Tgt Ion: 76 Resp: 1691
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#





#59

2-Hexanone

Concen: 11.597 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX046647.D

Acq: 11 Jun 2025 18:59

Instrument :

MSVOA_X

ClientSampleId :

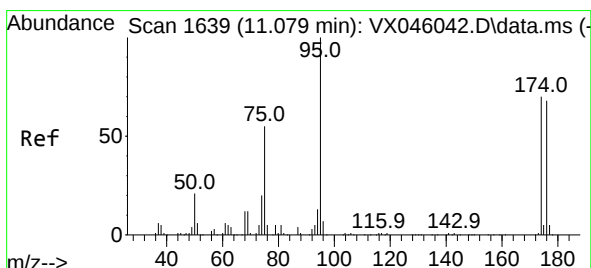
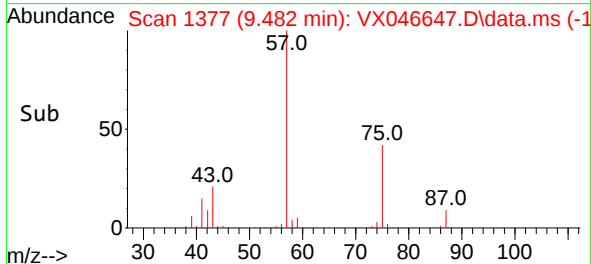
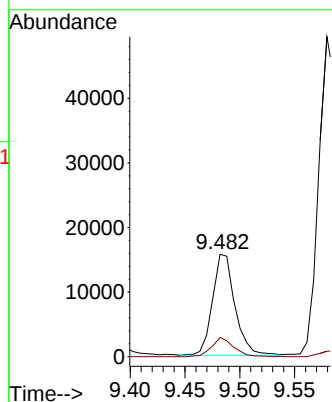
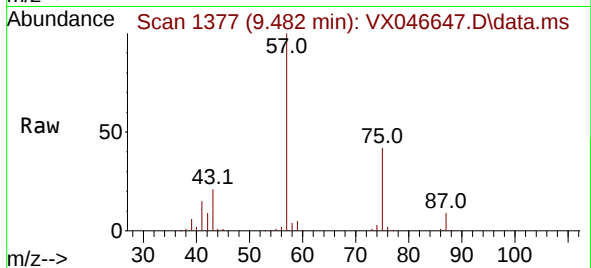
WC-4

Tgt Ion: 43 Resp: 22143

Ion Ratio Lower Upper

43 100

58 18.8 24.9 74.6#



#62

4-Bromofluorobenzene

Concen: 54.980 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046647.D

Acq: 11 Jun 2025 18:59

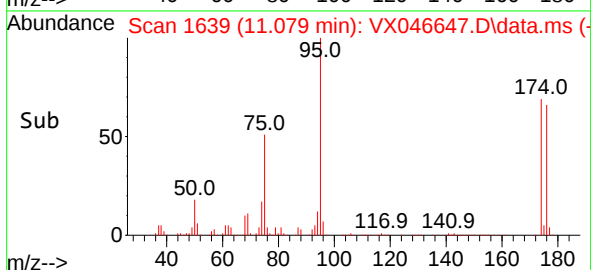
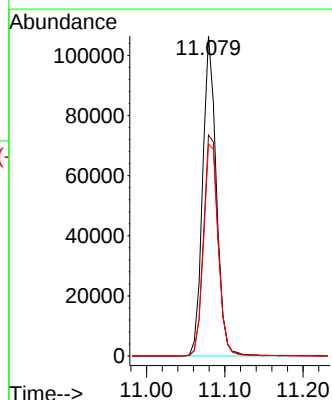
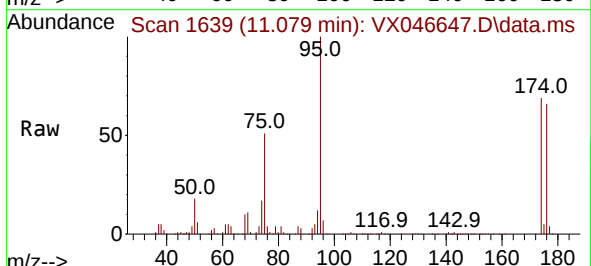
Tgt Ion: 95 Resp: 129279

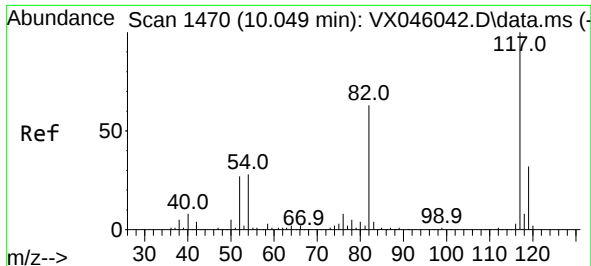
Ion Ratio Lower Upper

95 100

174 73.6 0.0 135.8

176 71.2 0.0 131.4

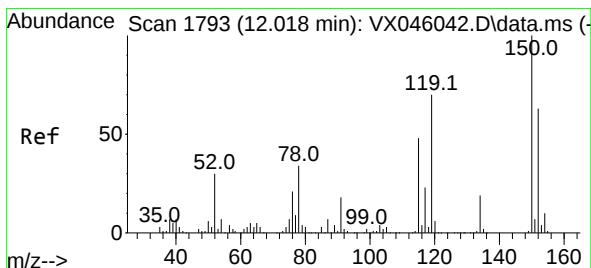
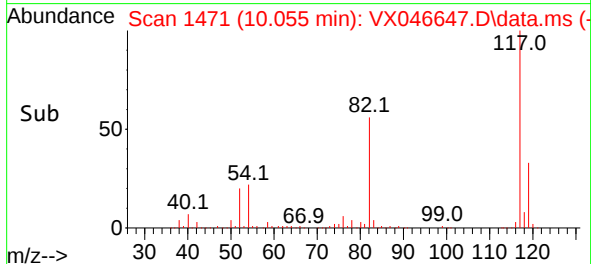
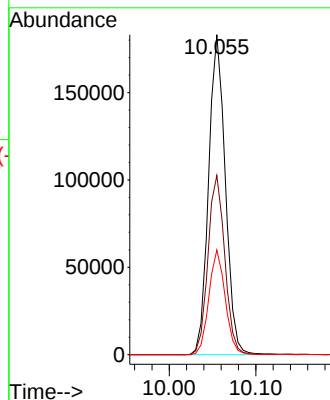
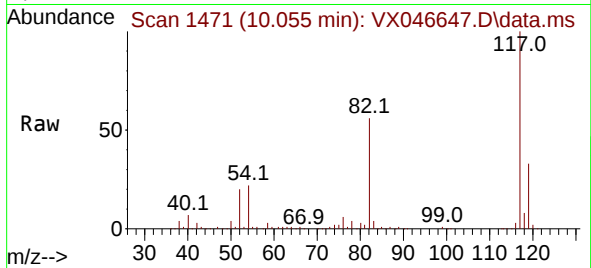




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

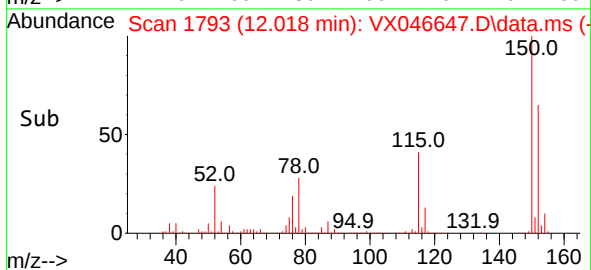
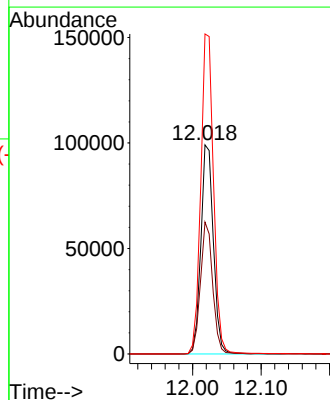
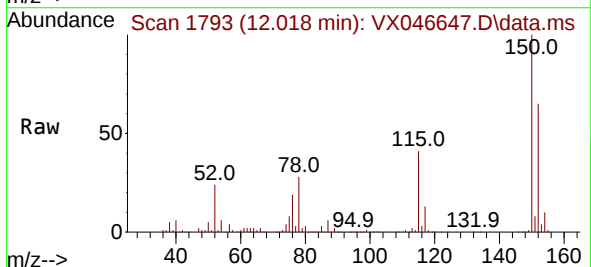
Instrument :
MSVOA_X
ClientSampleId :
WC-4

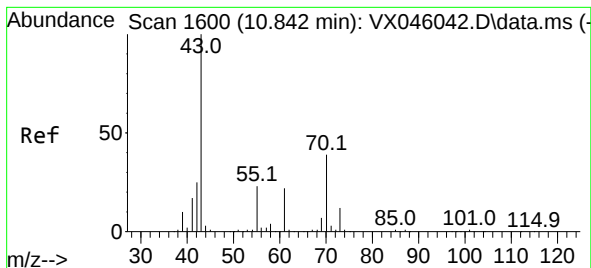
Tgt Ion:117 Resp: 245538
Ion Ratio Lower Upper
117 100
82 56.0 50.6 76.0
119 32.8 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046647.D
Acq: 11 Jun 2025 18:59

Tgt Ion:152 Resp: 126422
Ion Ratio Lower Upper
152 100
115 61.6 46.9 140.7
150 155.8 0.0 351.0





#74

N-amy1 acetate

Concen: 1.681 ug/l

RT: 10.640 min Scan# 1639

Delta R.T. -0.201 min

Lab File: VX046647.D

Acq: 11 Jun 2025 18:59

Instrument :

MSVOA_X

ClientSampleId :

WC-4

Tgt Ion: 43 Resp: 7355

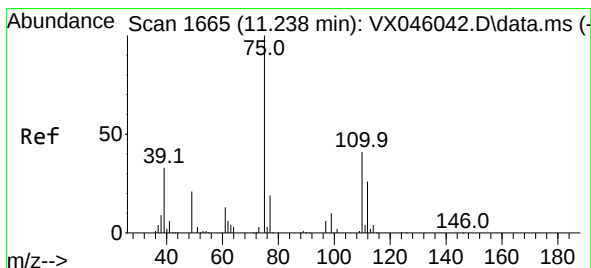
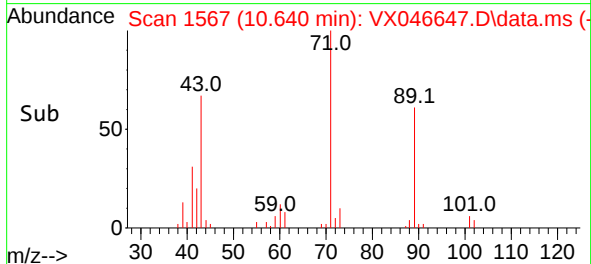
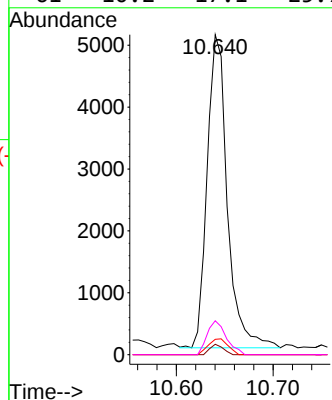
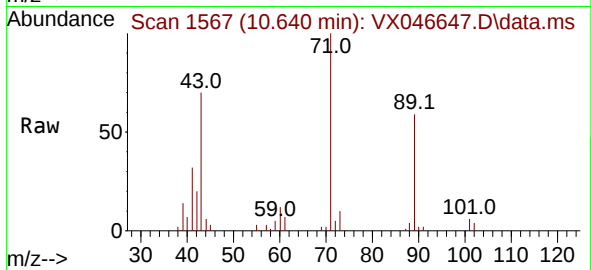
Ion Ratio Lower Upper

43 100

70 2.2 30.9 46.3#

55 4.9 18.7 28.1#

61 10.2 17.1 25.7#



#76

1,2,3-Trichloropropane

Concen: 24.821 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX046647.D

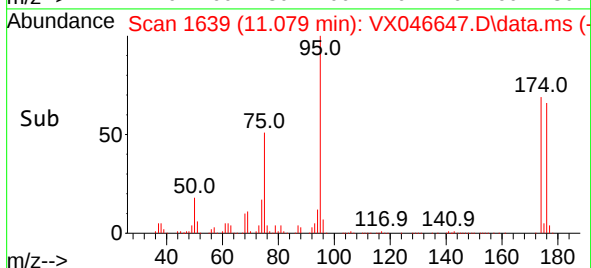
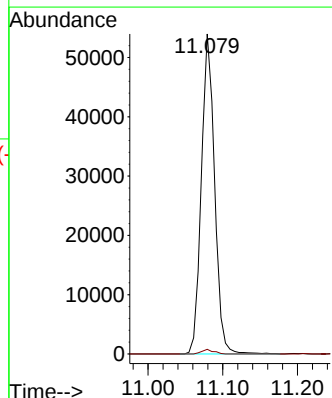
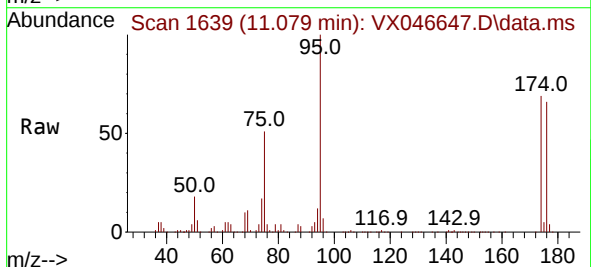
Acq: 11 Jun 2025 18:59

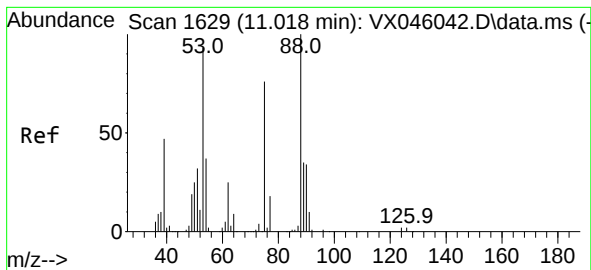
Tgt Ion: 75 Resp: 66466

Ion Ratio Lower Upper

75 100

77 1.3 20.5 61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.600 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046647.D
 Acq: 11 Jun 2025 18:59

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-4

Tgt Ion: 75 Resp: 66466
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.0 37.0 55.6#

