

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046654.D
 Acq On : 11 Jun 2025 21:32
 Operator : JC/MD
 Sample : PB168370TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB168370TB

Quant Time: Jun 12 02:43:02 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)

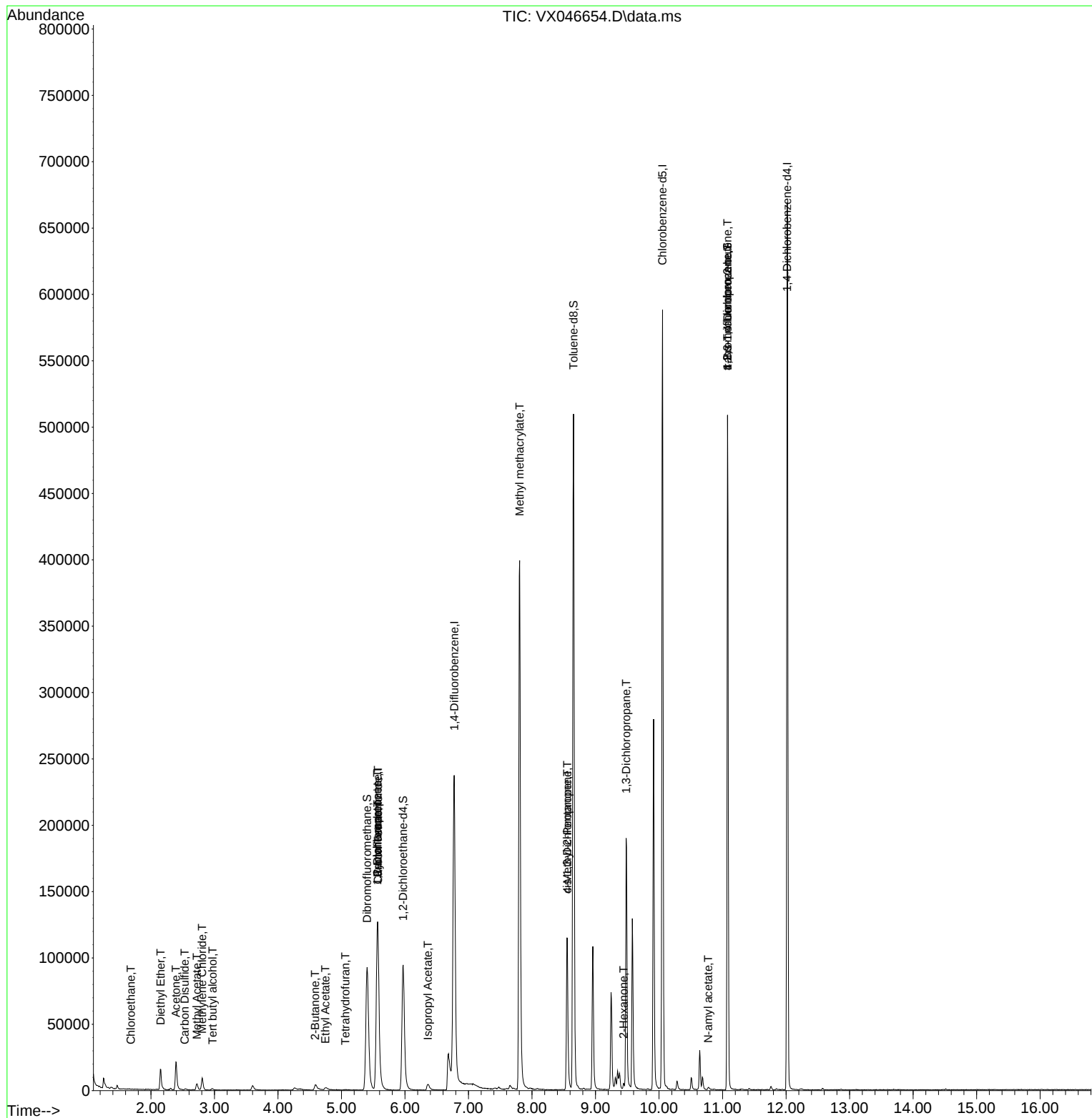
Internal Standards						
1) Pentafluorobenzene	5.568	168	127598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	237472	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	256124	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	133878	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	99221	43.708	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	87.420%
35) Dibromofluoromethane	5.403	113	88226	50.520	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.040%
50) Toluene-d8	8.653	98	307506	53.409	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.820%
62) 4-Bromofluorobenzene	11.079	95	135119	56.721	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	113.440%
Target Compounds						
					Qvalue	
6) Chloroethane	1.685	64	230	0.221	ug/l #	44
8) Diethyl Ether	2.154	74	6586	7.009	ug/l	77
11) Tert butyl alcohol	2.971	59	1016	4.033	ug/l #	77
16) Acetone	2.392	43	26662	33.954	ug/l	94
17) Carbon Disulfide	2.532	76	301	0.296	ug/l #	76
18) Methyl Acetate	2.721	43	7140	2.641	ug/l	99
20) Methylene Chloride	2.806	84	4057	2.228	ug/l #	76
25) 2-Butanone	4.587	43	9340	7.391	ug/l	98
29) Tetrahydrofuran	5.062	42	251	0.315	ug/l #	35
31) Cyclohexane	5.568	56	2921	1.107	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	10531	4.222	ug/l #	50
37) Ethyl Acetate	4.745	43	2953	1.213	ug/l #	89
38) Carbon Tetrachloride	5.574	117	13652	4.886	ug/l #	17
43) Isopropyl Acetate	6.361	43	7401	1.744	ug/l	97
48) Methyl methacrylate	7.805	41	37883	17.347	ug/l #	47
51) 4-Methyl-2-Pentanone	8.555	43	43968	16.301	ug/l #	52
54) cis-1,3-Dichloropropene	8.555	75	20258	7.248	ug/l #	51
57) 1,3-Dichloropropane	9.482	76	1713	0.560	ug/l #	42
59) 2-Hexanone	9.439	43	2570	1.329	ug/l	99
74) N-amyl acetate	10.774	43	1254	0.271	ug/l #	47
76) 1,2,3-Trichloropropane	11.079	75	71100	25.073	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	71100	72.326	ug/l #	1

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

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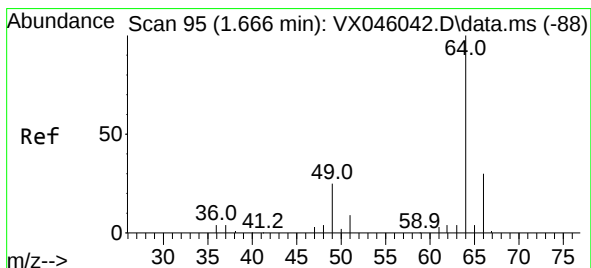
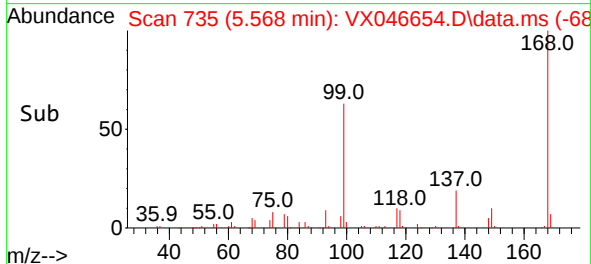
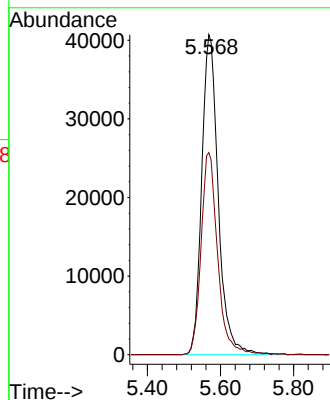
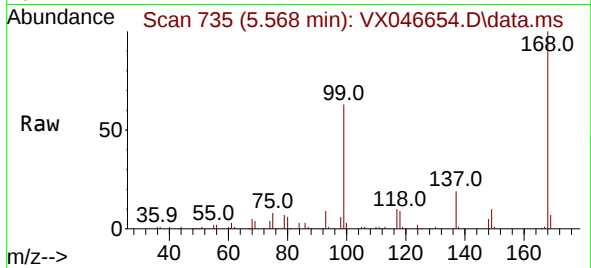




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

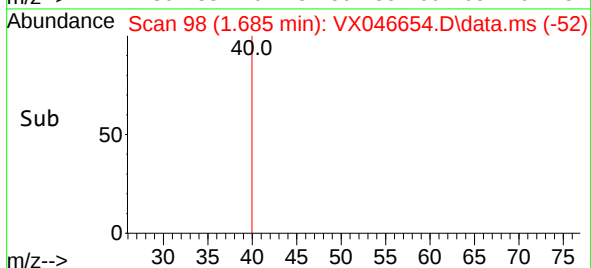
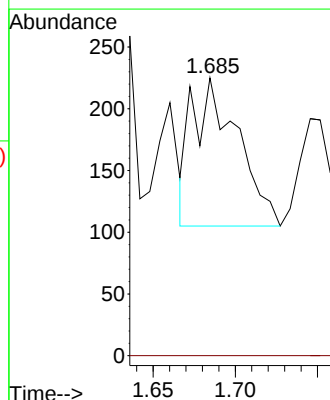
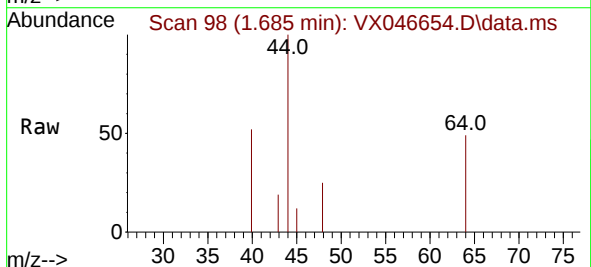
Instrument :
MSVOA_X
ClientSampleId :
PB168370TB

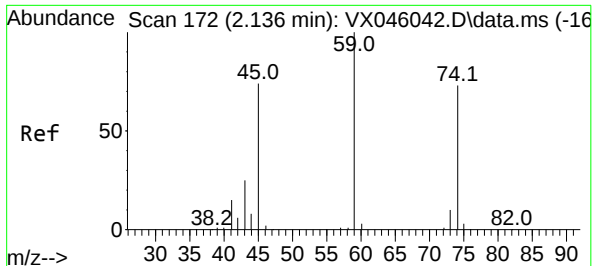
Tgt Ion:168 Resp: 127598
Ion Ratio Lower Upper
168 100
99 63.2 54.9 82.3



#6
Chloroethane
Concen: 0.221 ug/l
RT: 1.685 min Scan# 98
Delta R.T. -0.018 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 64 Resp: 230
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#





#8

Diethyl Ether

Concen: 7.009 ug/l

RT: 2.154 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046654.D

Acq: 11 Jun 2025 21:32

Instrument :

MSVOA_X

ClientSampleId :

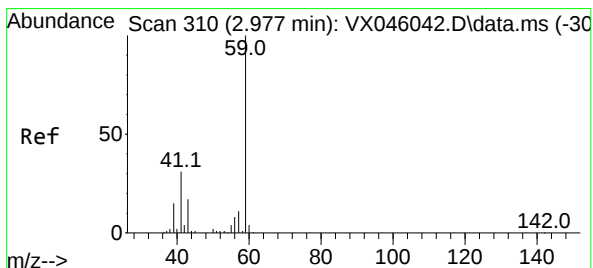
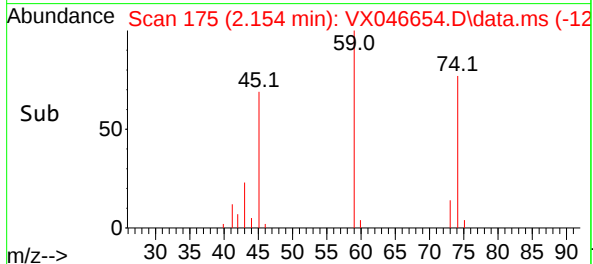
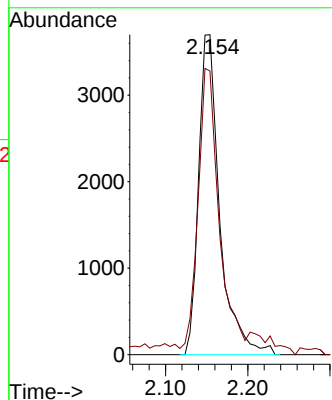
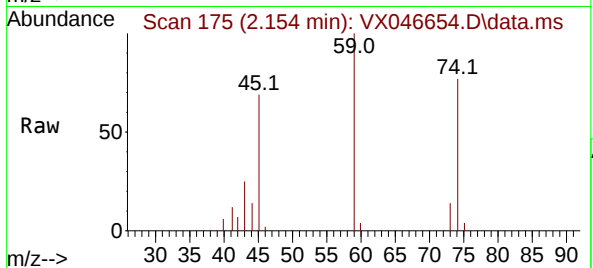
PB168370TB

Tgt Ion: 74 Resp: 6586

Ion Ratio Lower Upper

74 100

45 85.3 54.9 164.8



#11

Tert butyl alcohol

Concen: 4.033 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.000 min

Lab File: VX046654.D

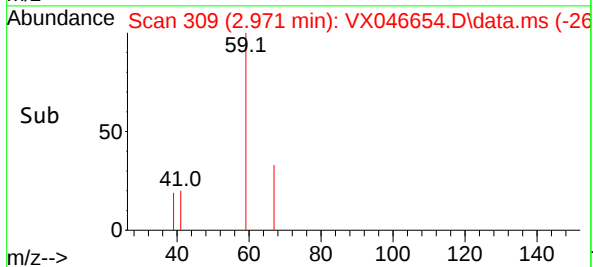
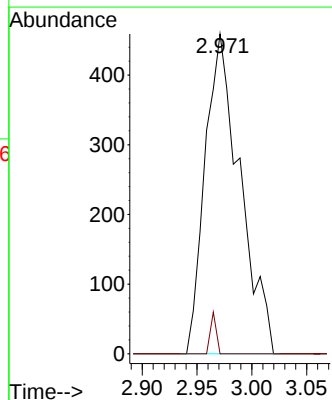
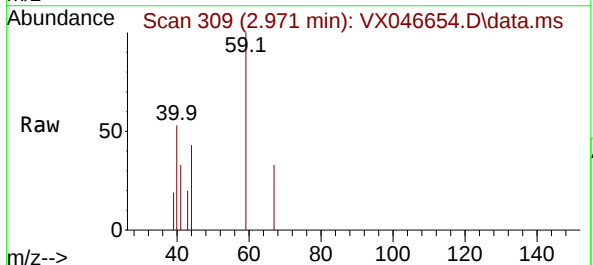
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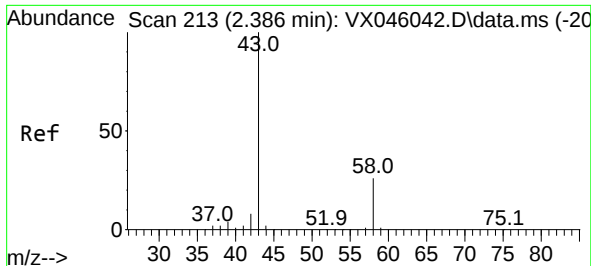
Tgt Ion: 59 Resp: 1016

Ion Ratio Lower Upper

59 100

57 2.2 8.6 12.8#

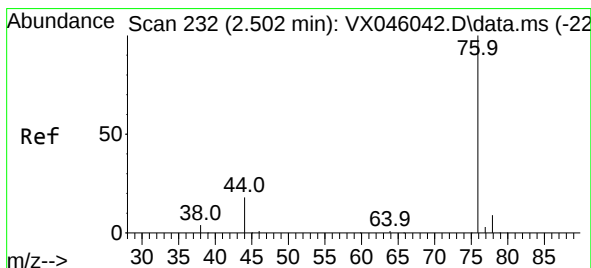
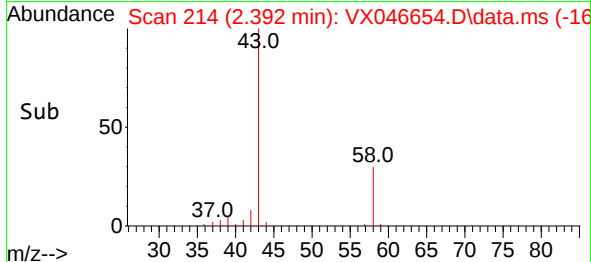
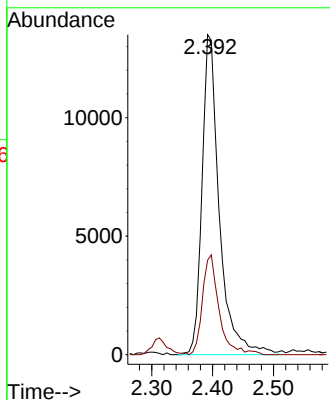
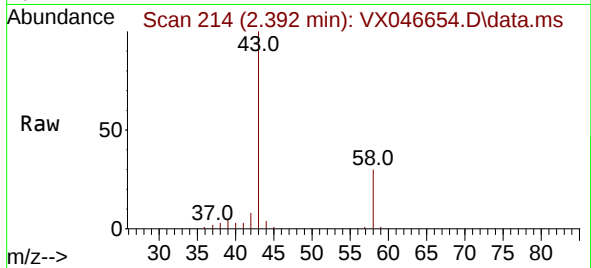




#16
Acetone
Concen: 33.954 ug/l
RT: 2.392 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

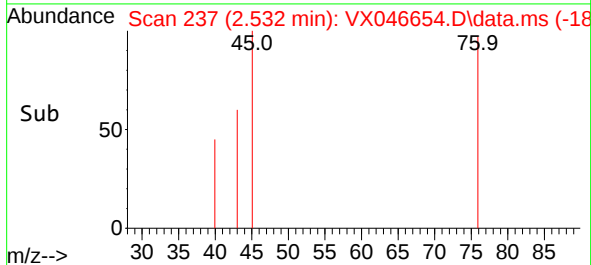
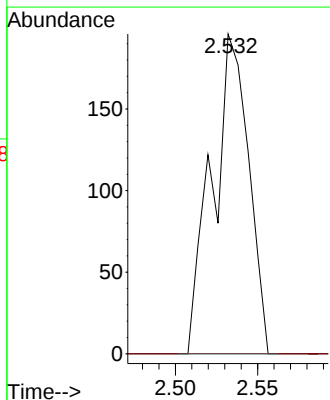
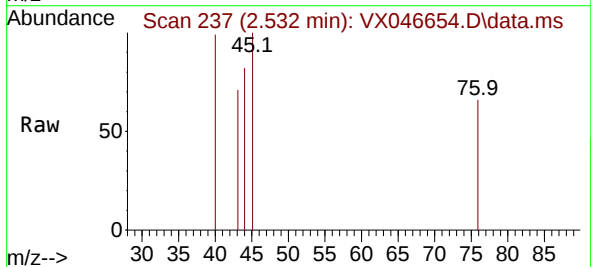
Instrument :
MSVOA_X
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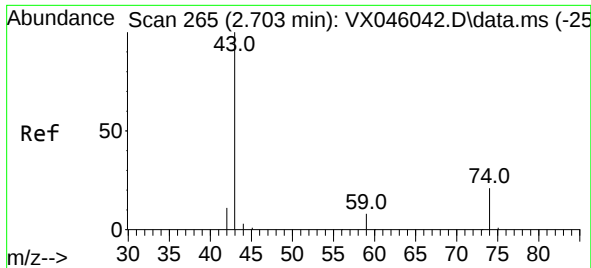
Tgt Ion: 43 Resp: 26662
Ion Ratio Lower Upper
43 100
58 29.6 21.2 31.8



#17
Carbon Disulfide
Concen: 0.296 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 76 Resp: 301
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4

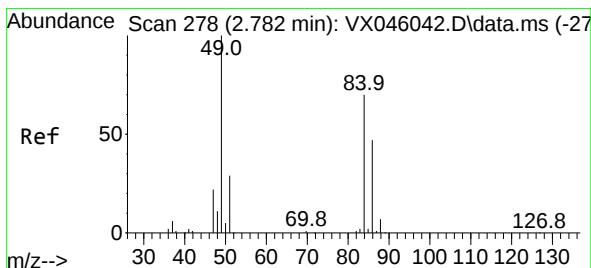
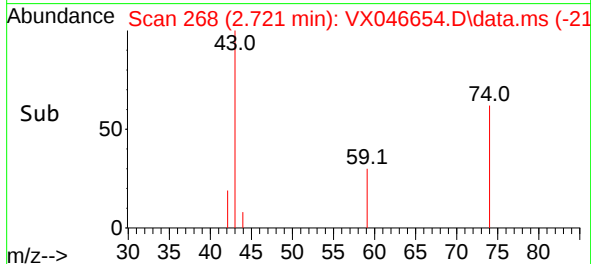
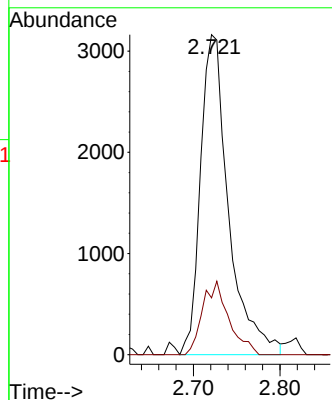
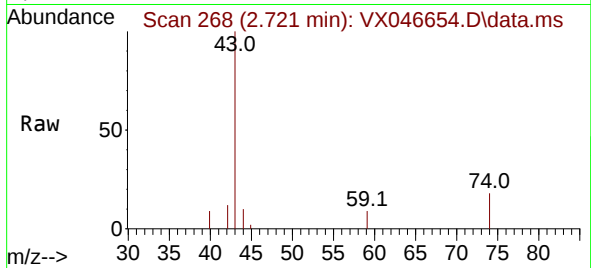




#18
Methyl Acetate
Concen: 2.641 ug/l
RT: 2.721 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

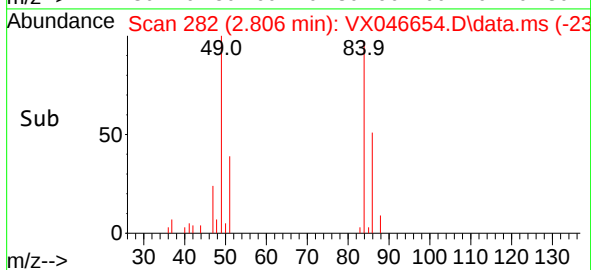
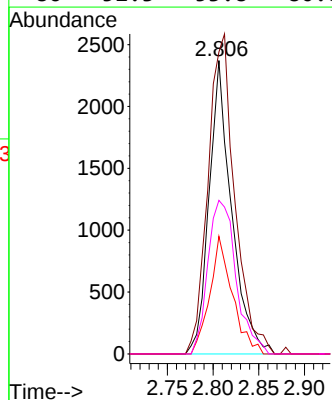
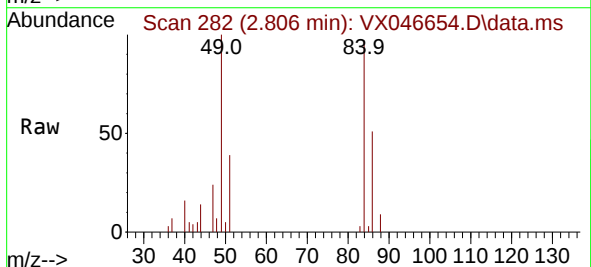
Instrument :
MSVOA_X
ClientSampleId :
PB168370TB

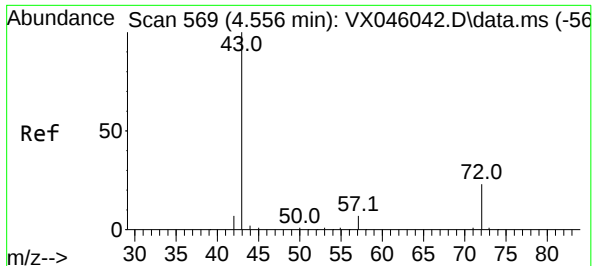
Tgt Ion: 43 Resp: 7140
Ion Ratio Lower Upper
43 100
74 21.5 16.7 25.1



#20
Methylene Chloride
Concen: 2.228 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 84 Resp: 4057
Ion Ratio Lower Upper
84 100
49 102.9 113.9 170.9#
51 40.1 33.5 50.3
86 52.3 53.8 80.8#

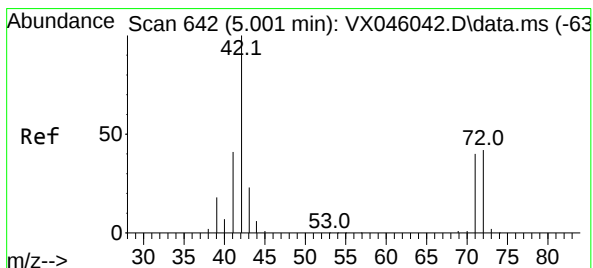
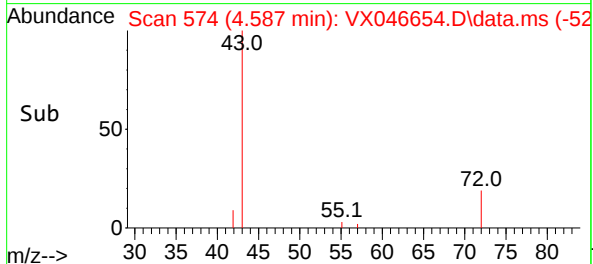
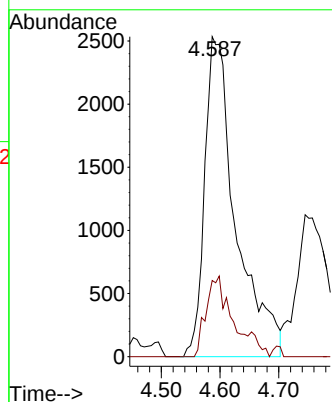
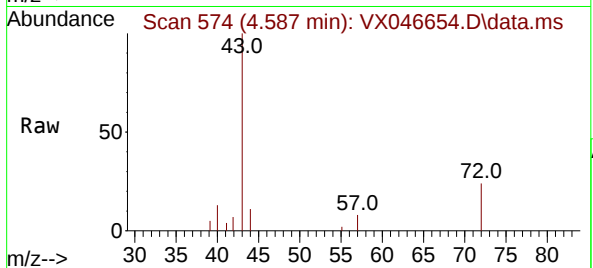




#25
2-Butanone
Concen: 7.391 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.013 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

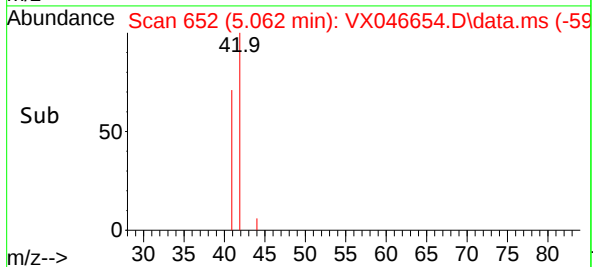
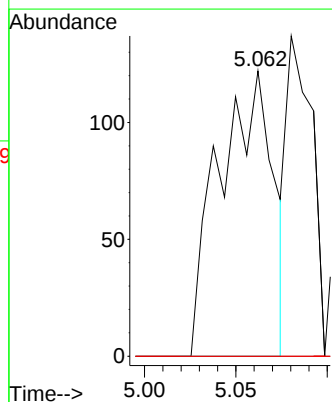
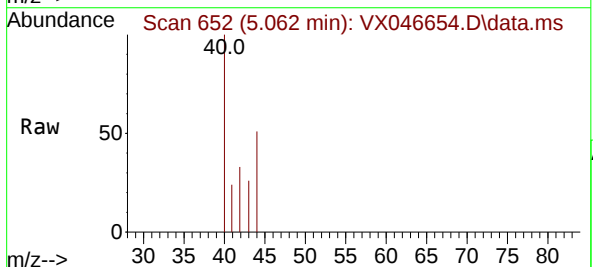
Instrument :
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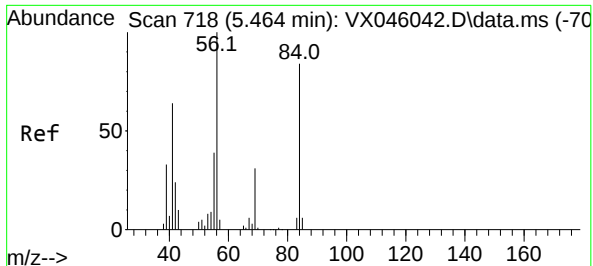
Tgt Ion: 43 Resp: 9340
Ion Ratio Lower Upper
43 100
72 23.8 18.4 27.6



#29
Tetrahydrofuran
Concen: 0.315 ug/l
RT: 5.062 min Scan# 652
Delta R.T. 0.043 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

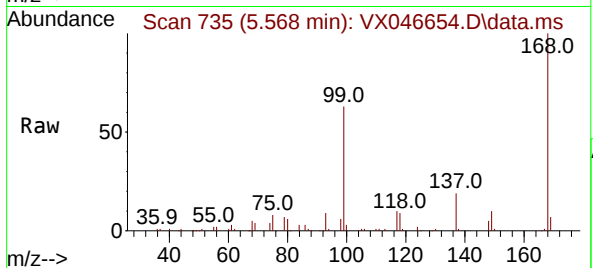
Tgt Ion: 42 Resp: 251
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.4 47.2#



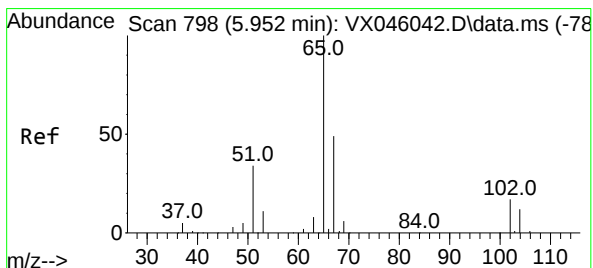
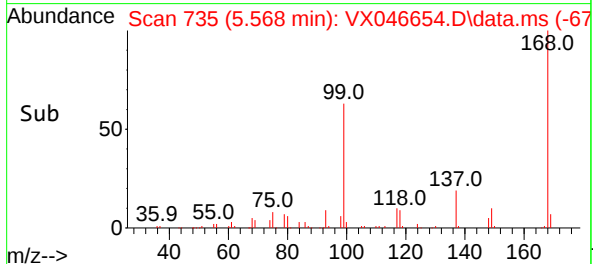
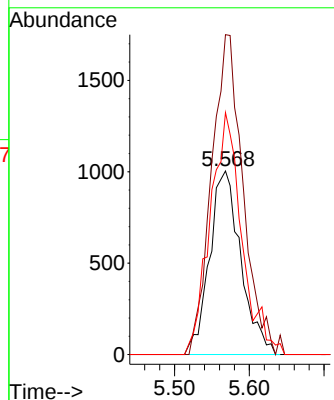


#31
Cyclohexane
Concen: 1.107 ug/l
RT: 5.568 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Instrument :
MSVOA_X
ClientSampleId :
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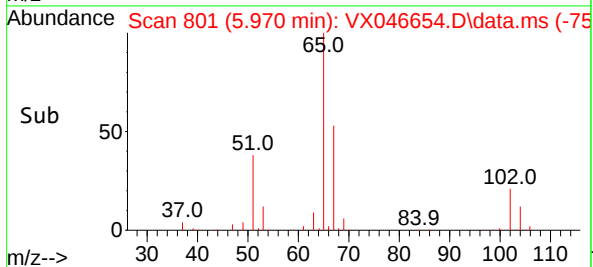
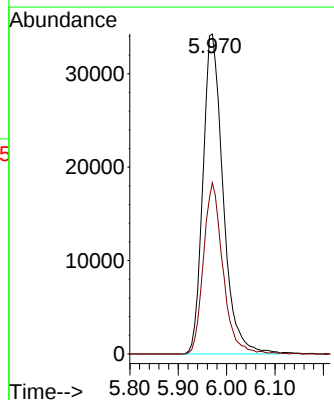
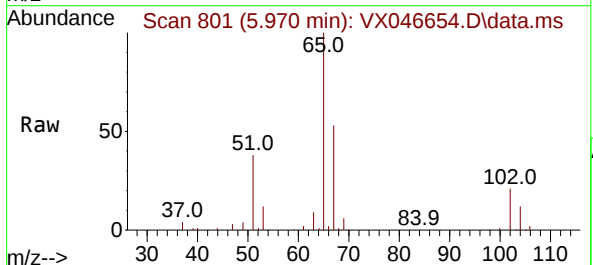


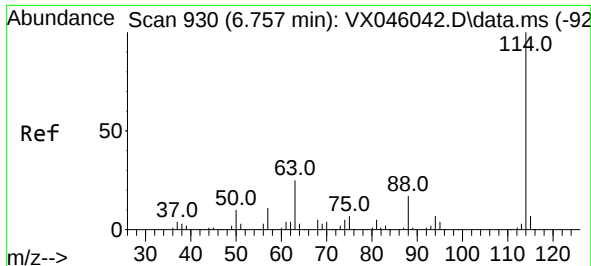
Tgt Ion: 56 Resp: 2921
Ion Ratio Lower Upper
56 100
69 174.3 24.4 36.6#
84 131.9 66.9 100.3#



#33
1,2-Dichloroethane-d4
Concen: 43.708 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 65 Resp: 99221
Ion Ratio Lower Upper
65 100
67 51.6 0.0 99.0

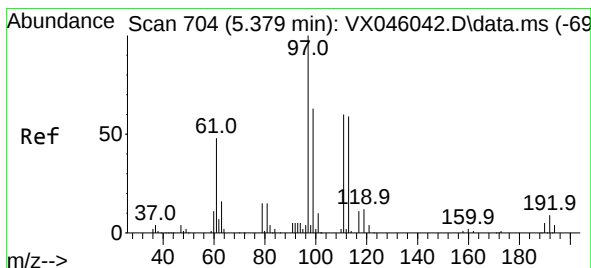
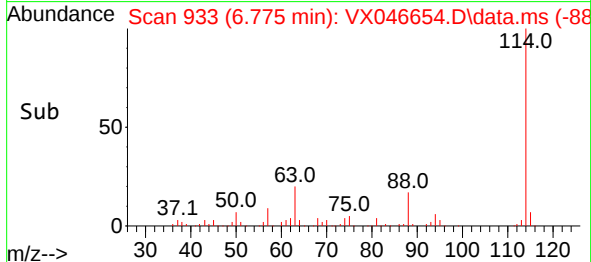
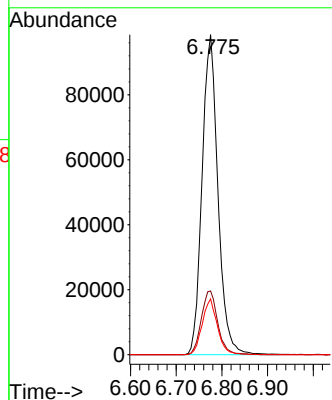
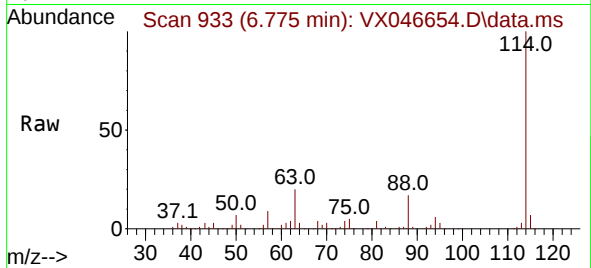




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

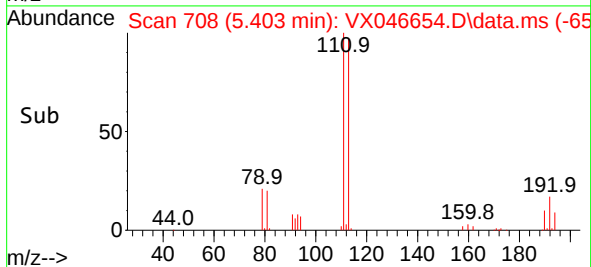
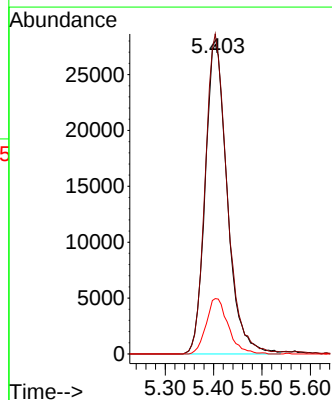
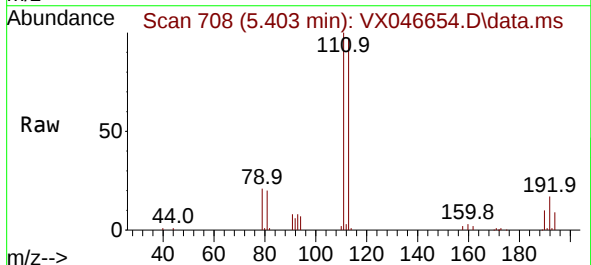
Instrument :
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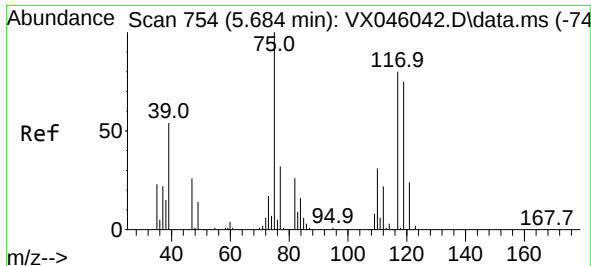
Tgt Ion:114 Resp: 237472
Ion Ratio Lower Upper
114 100
63 19.9 0.0 49.2
88 17.5 0.0 33.6



#35
Dibromofluoromethane
Concen: 50.520 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion:113 Resp: 88226
Ion Ratio Lower Upper
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111 102.0 83.1 124.7
192 17.8 13.3 19.9

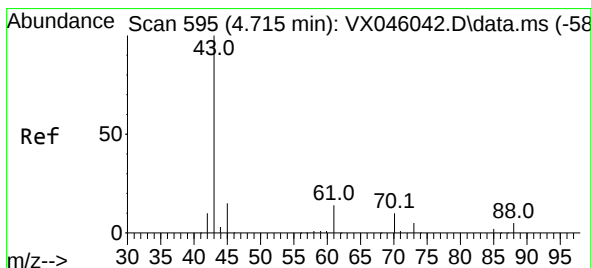
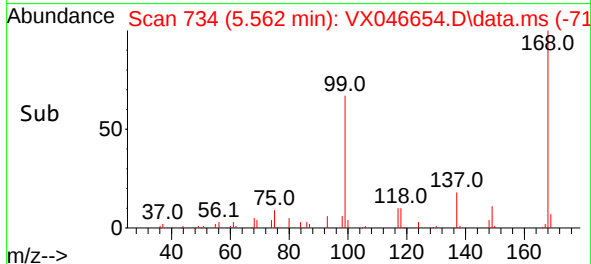
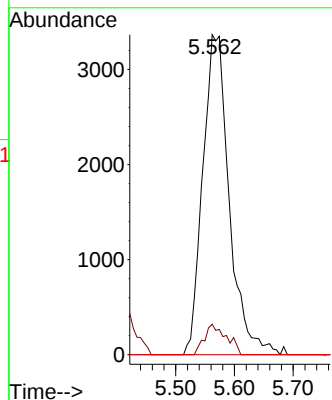
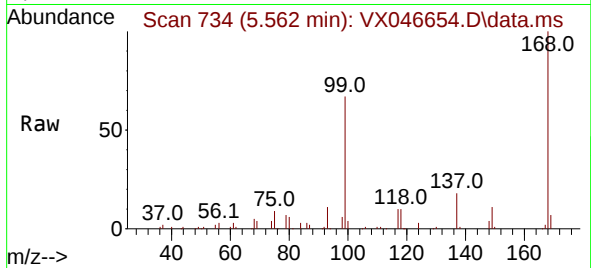




#36
1,1-Dichloropropene
Concen: 4.222 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.152 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

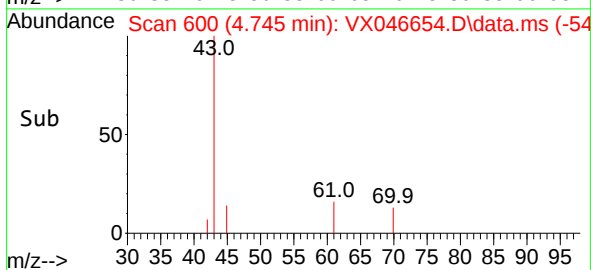
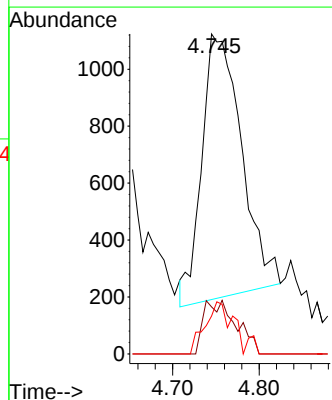
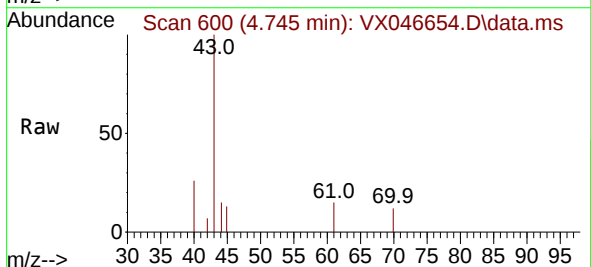
Instrument :
MSVOA_X
ClientSampleId :
PB168370TB

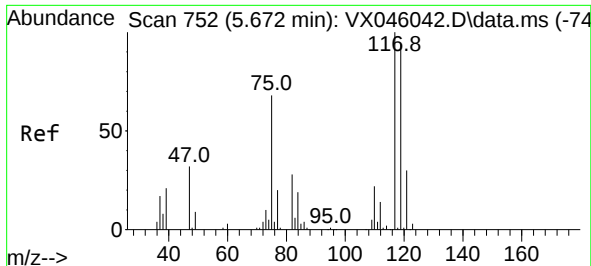
Tgt Ion: 75 Resp: 10531
Ion Ratio Lower Upper
75 100
110 7.9 16.3 48.9#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 1.213 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.012 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

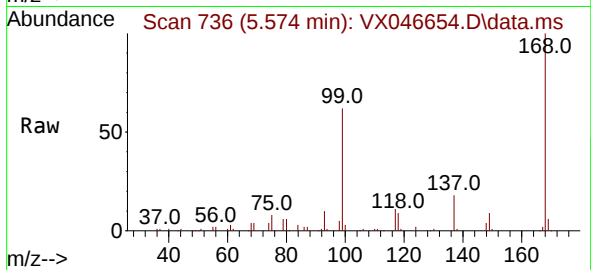
Tgt Ion: 43 Resp: 2953
Ion Ratio Lower Upper
43 100
61 16.6 10.3 15.5#
70 14.9 7.9 11.9#



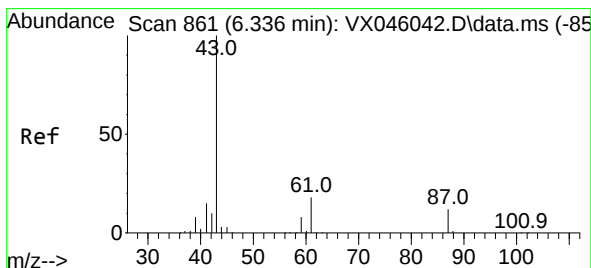
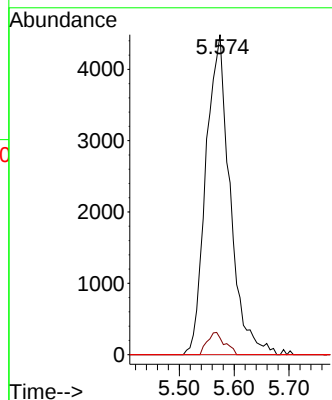
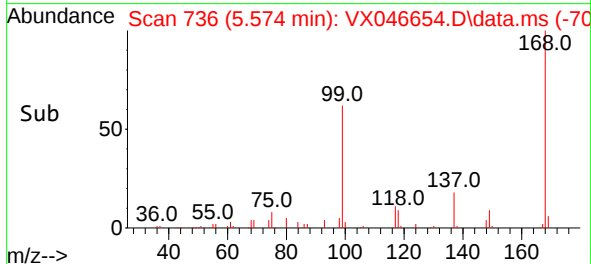


#38
Carbon Tetrachloride
Concen: 4.886 ug/l
RT: 5.574 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Instrument :
MSVOA_X
ClientSampleId :
PB168370TB

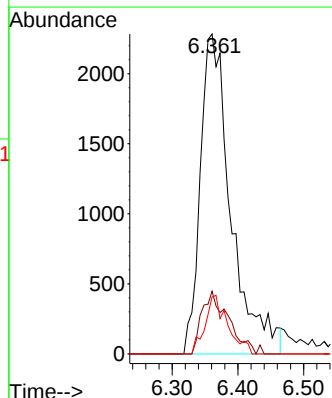
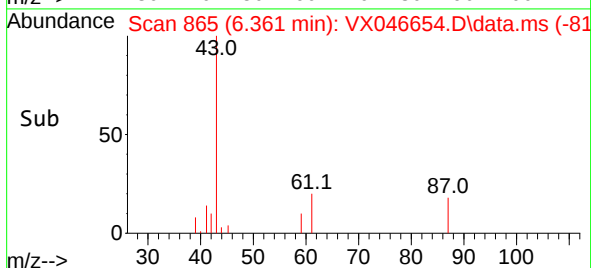
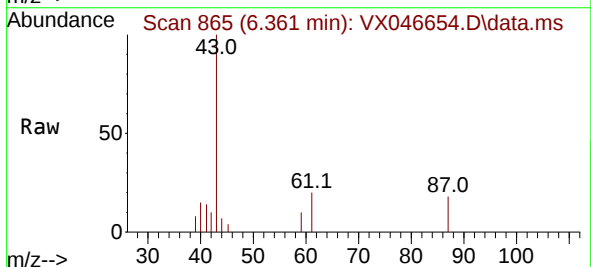


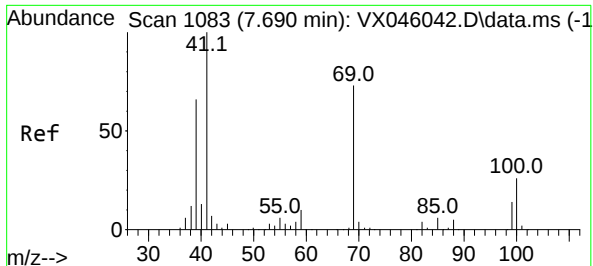
Tgt Ion:117 Resp: 13652
Ion Ratio Lower Upper
117 100
119 5.2 75.2 112.8#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 1.744 ug/l
RT: 6.361 min Scan# 865
Delta R.T. 0.007 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 43 Resp: 7401
Ion Ratio Lower Upper
43 100
61 16.9 14.3 21.5
87 13.5 9.5 14.3





#48

Methyl methacrylate

Concen: 17.347 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. 0.103 min

Lab File: VX046654.D

Acq: 11 Jun 2025 21:32

Instrument :

MSVOA_X

ClientSampleId :

PB168370TB

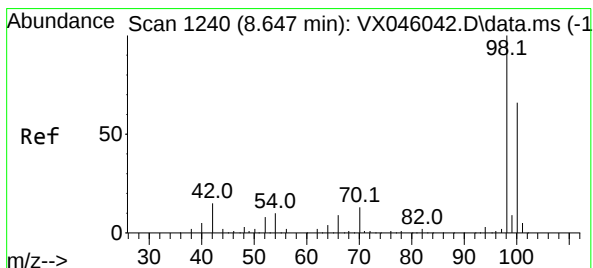
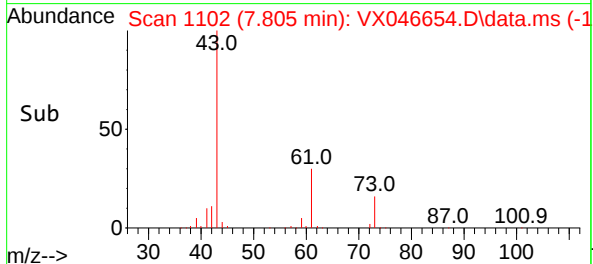
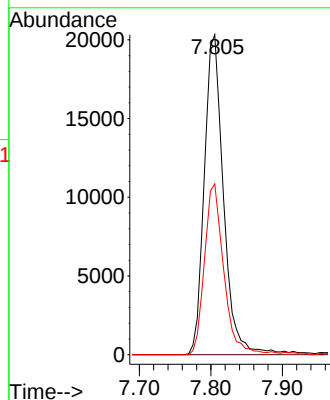
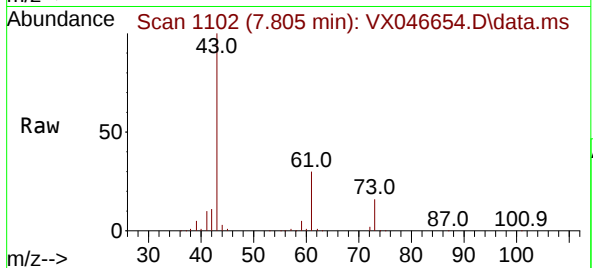
Tgt Ion: 41 Resp: 37883

Ion Ratio Lower Upper

41 100

69 0.0 58.5 87.7#

39 53.5 51.7 77.5



#50

Toluene-d8

Concen: 53.409 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046654.D

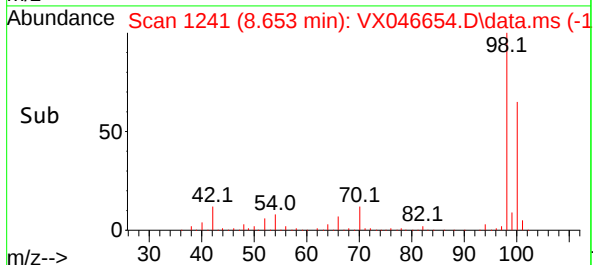
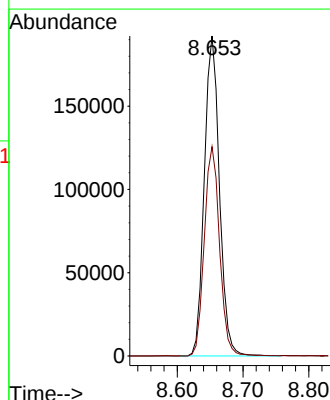
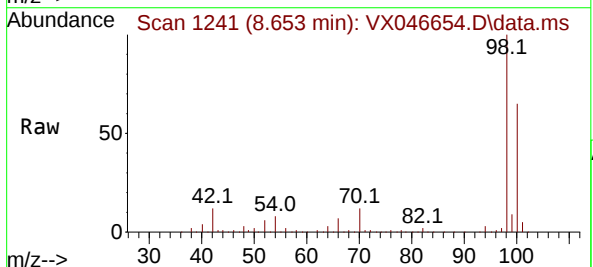
Acq: 11 Jun 2025 21:32

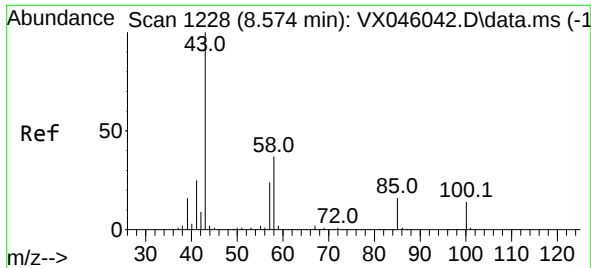
Tgt Ion: 98 Resp: 307506

Ion Ratio Lower Upper

98 100

100 66.2 53.5 80.3

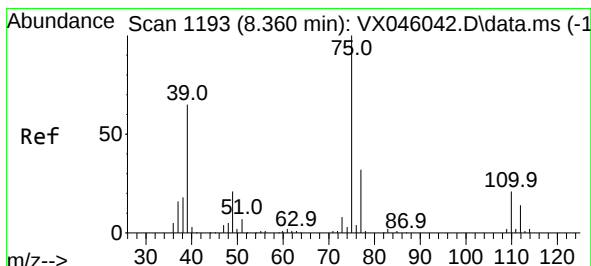
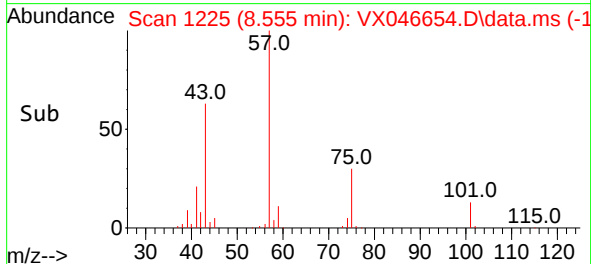
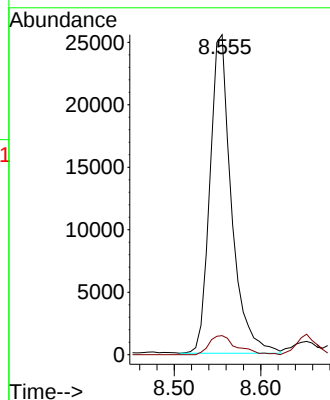
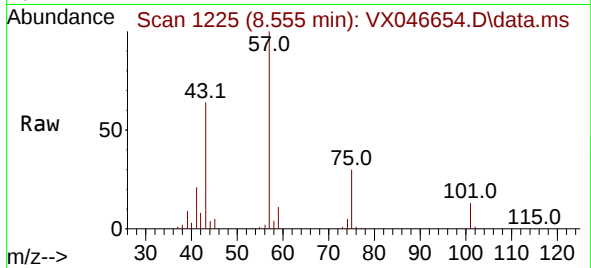




#51
4-Methyl-2-Pentanone
Concen: 16.301 ug/l
RT: 8.555 min Scan# 11
Delta R.T. -0.018 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

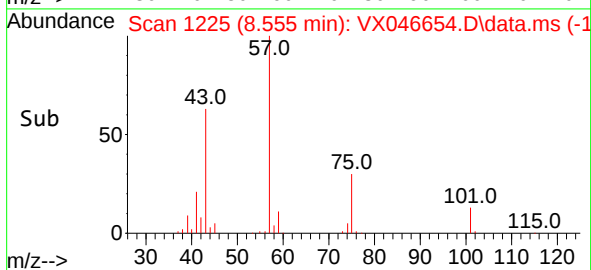
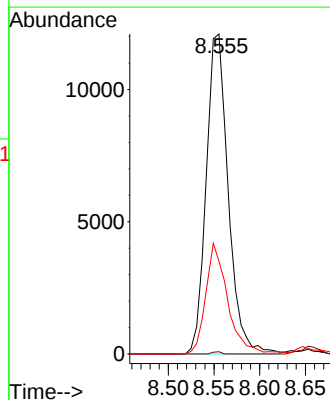
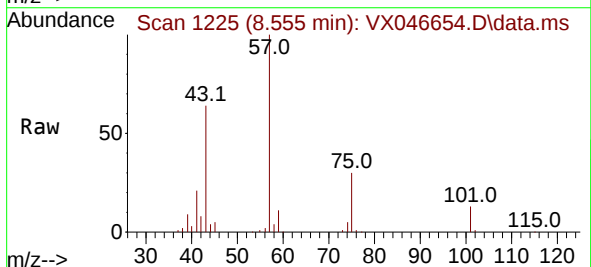
Instrument :
MSVOA_X
ClientSampleId :
PB168370TB

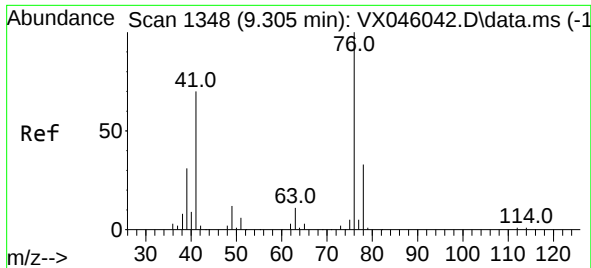
Tgt Ion: 43 Resp: 43968
Ion Ratio Lower Upper
43 100
58 7.6 28.9 43.3#



#54
cis-1,3-Dichloropropene
Concen: 7.248 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. 0.183 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 75 Resp: 20258
Ion Ratio Lower Upper
75 100
77 0.7 25.4 38.0#
39 29.0 52.2 78.4#

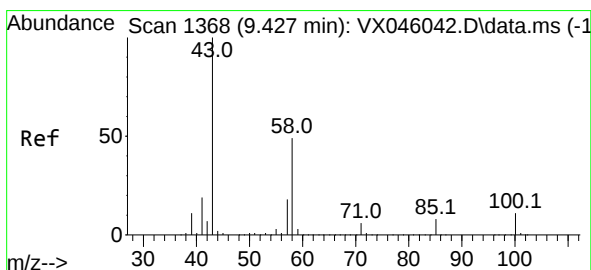
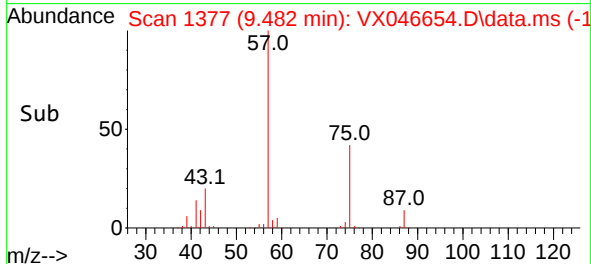
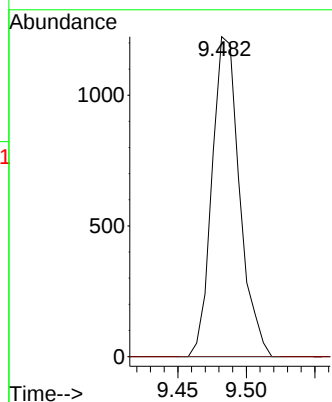
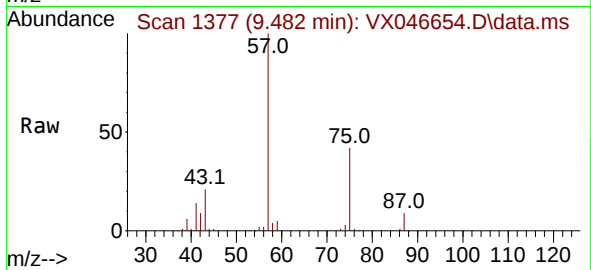




#57
1,3-Dichloropropane
Concen: 0.560 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.171 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

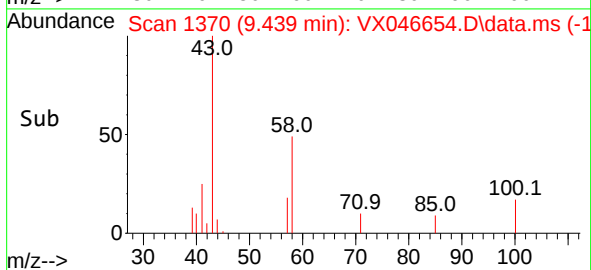
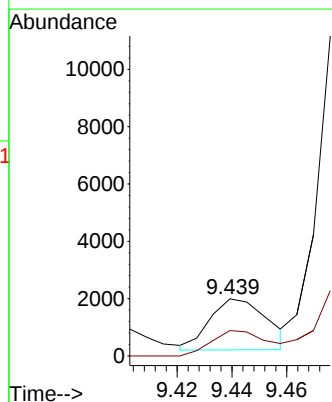
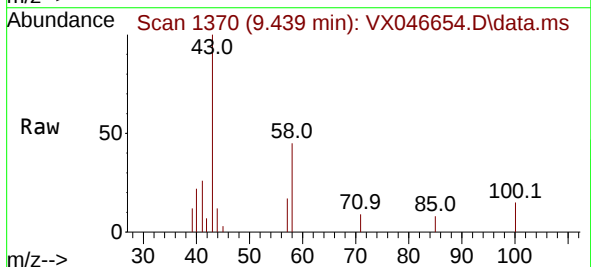
Instrument :
MSVOA_X
ClientSampleId :
PB168370TB

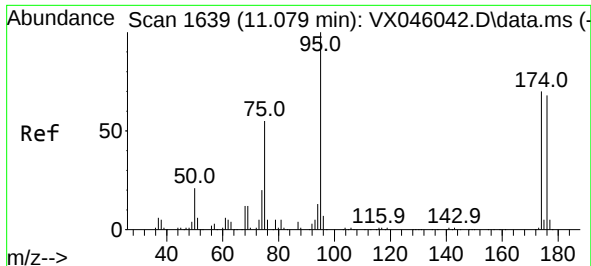
Tgt Ion: 76 Resp: 1713
Ion Ratio Lower Upper
76 100
78 0.0 26.3 39.5#



#59
2-Hexanone
Concen: 1.329 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 43 Resp: 2570
Ion Ratio Lower Upper
43 100
58 49.0 24.9 74.6

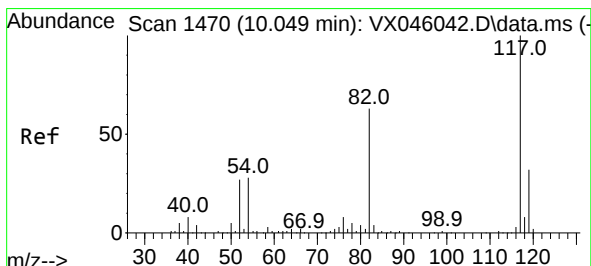
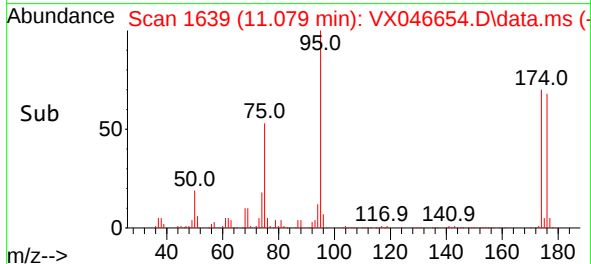
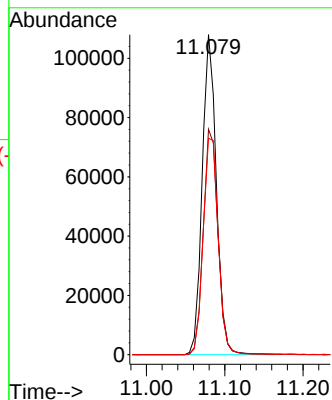
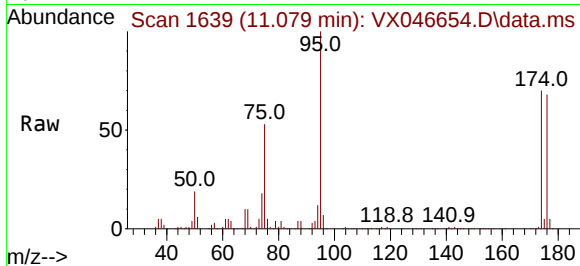




#62
4-Bromofluorobenzene
Concen: 56.721 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

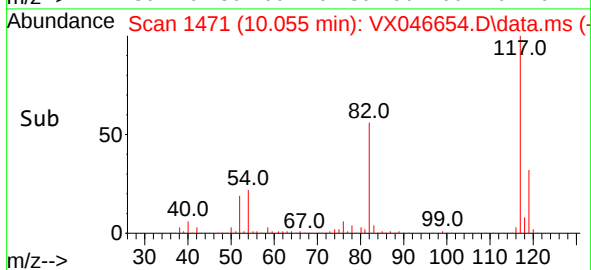
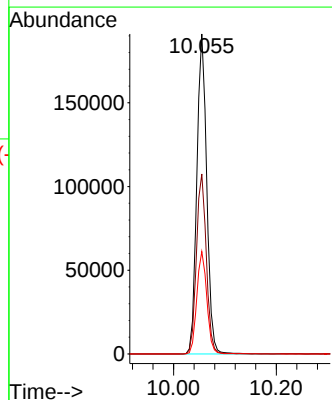
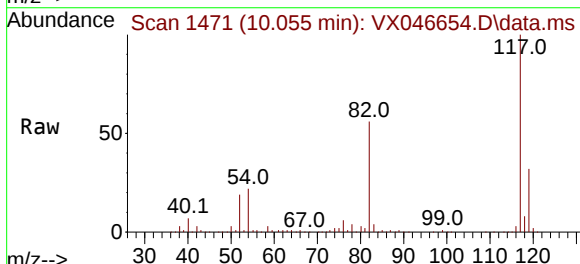
Instrument :
MSVOA_X
ClientSampleId :
PB168370TB

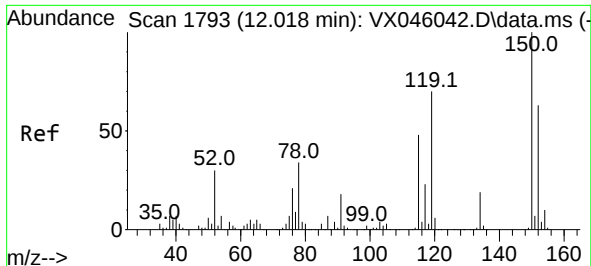
Tgt Ion: 95 Resp: 135119
Ion Ratio Lower Upper
95 100
174 73.6 0.0 135.8
176 72.4 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046654.D
Acq: 11 Jun 2025 21:32

Tgt Ion: 117 Resp: 256124
Ion Ratio Lower Upper
117 100
82 56.2 50.6 76.0
119 32.0 25.8 38.6

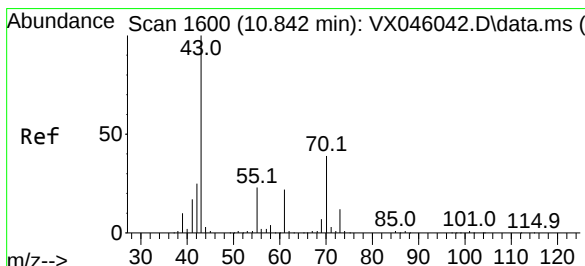
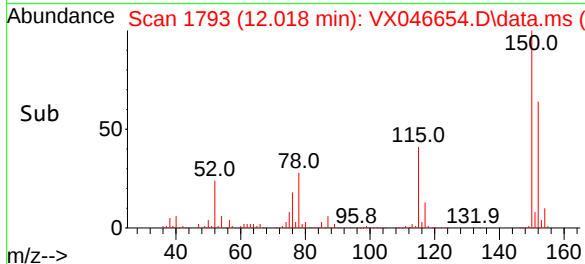
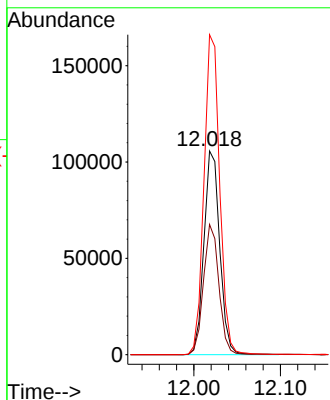
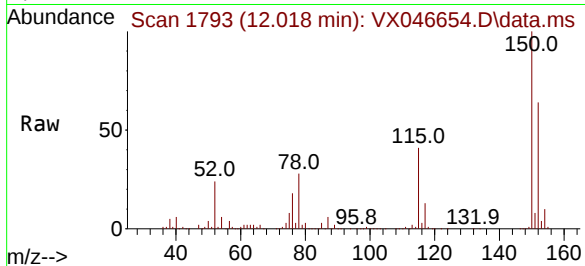




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 1
 Delta R.T. -0.006 min
 Lab File: VX046654.D
 Acq: 11 Jun 2025 21:32

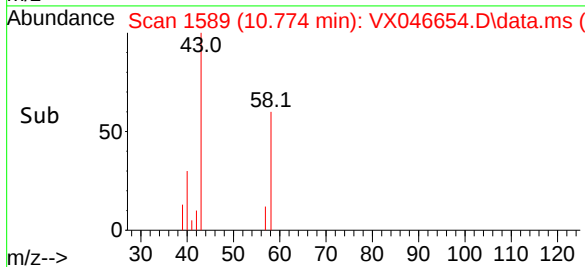
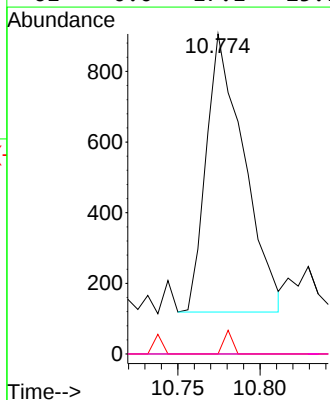
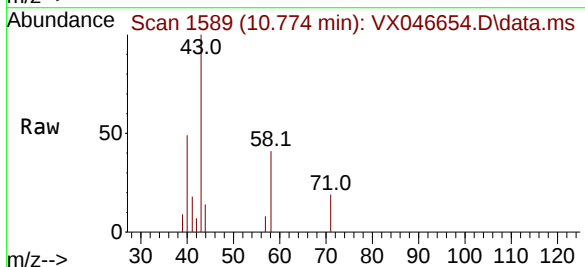
Instrument :
 MSVOA_X
 ClientSampleId :
 PB168370TB

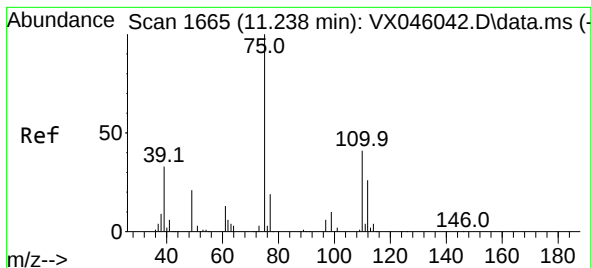
Tgt Ion:152 Resp: 133878
 Ion Ratio Lower Upper
 152 100
 115 62.8 46.9 140.7
 150 156.4 0.0 351.0



#74
 N-ethyl acetate
 Concen: 0.271 ug/l
 RT: 10.774 min Scan# 1589
 Delta R.T. -0.067 min
 Lab File: VX046654.D
 Acq: 11 Jun 2025 21:32

Tgt Ion: 43 Resp: 1254
 Ion Ratio Lower Upper
 43 100
 70 0.0 30.9 46.3#
 55 2.0 18.7 28.1#
 61 0.0 17.1 25.7#





#76

1,2,3-Trichloropropane

Concen: 25.073 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX046654.D

Acq: 11 Jun 2025 21:32

Instrument :

MSVOA_X

ClientSampleId :

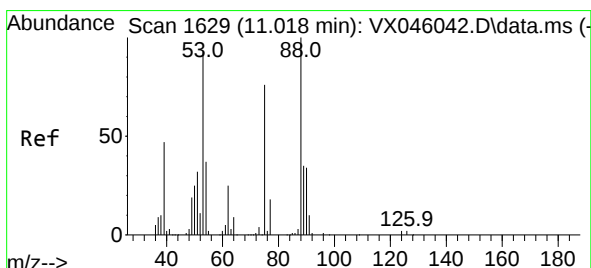
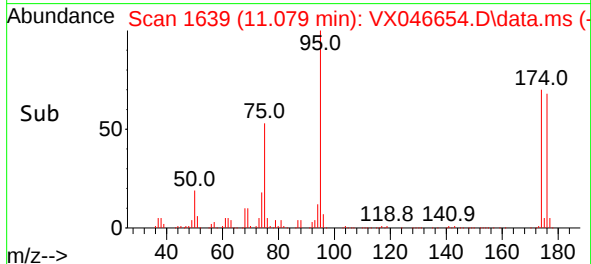
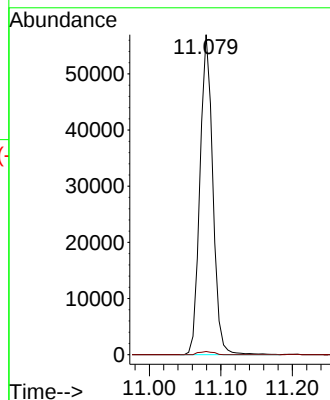
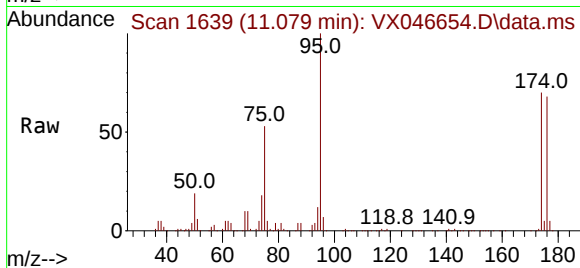
PB168370TB

Tgt Ion: 75 Resp: 71100

Ion Ratio Lower Upper

75 100

77 1.2 20.5 61.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.326 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX046654.D

Acq: 11 Jun 2025 21:32

Tgt Ion: 75 Resp: 71100

Ion Ratio Lower Upper

75 100

53 0.0 100.5 150.7#

89 0.0 37.0 55.6#

