

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072825\
 Data File : VX047161.D
 Acq On : 28 Jul 2025 13:42
 Operator : JC/MD
 Sample : PB169005TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB169005TB

Quant Time: Jul 29 02:16:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

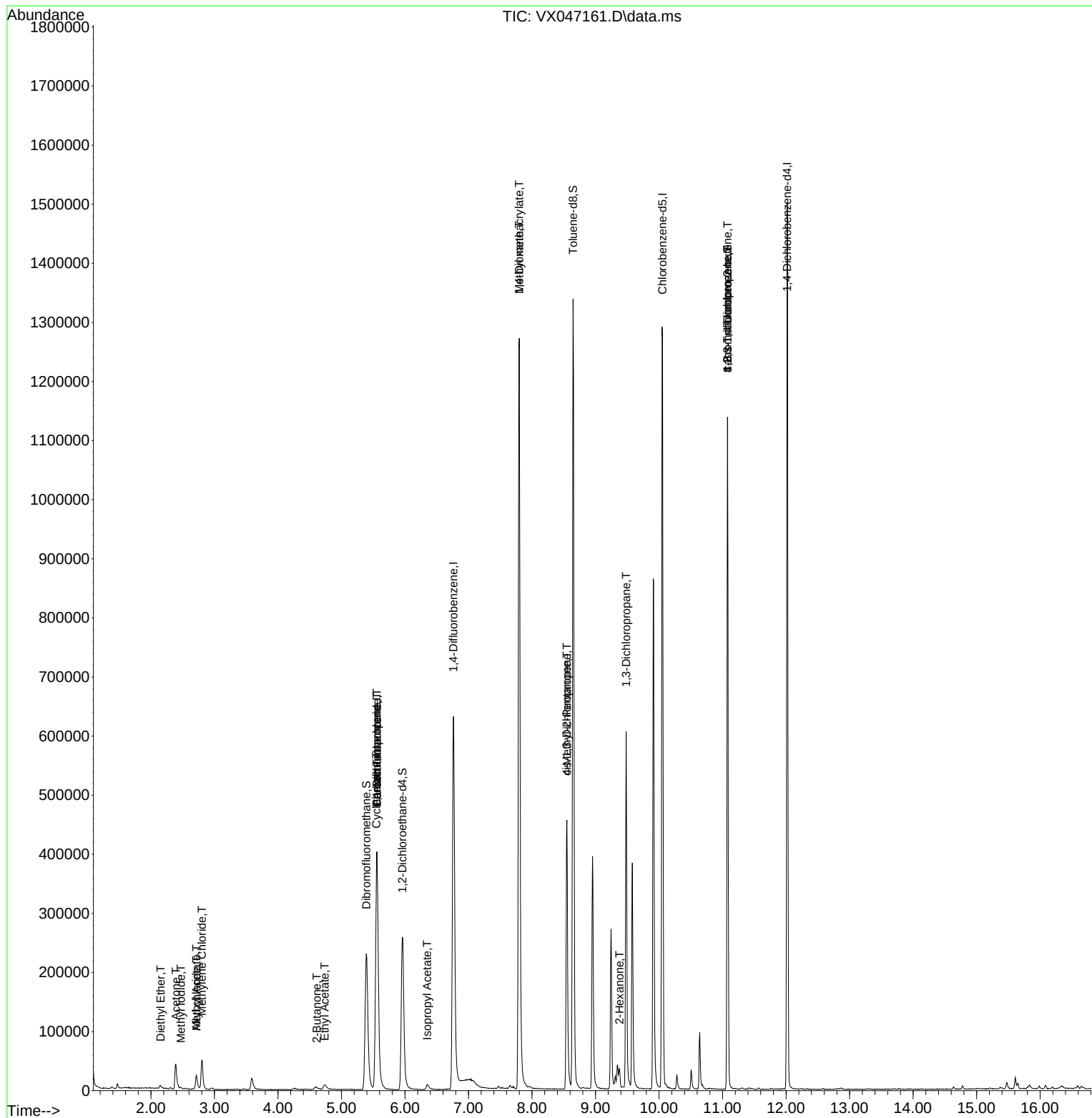
Internal Standards						
1) Pentafluorobenzene	5.556	168	392521	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	672910	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	582759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	296033	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	281846	57.642	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.280%			
35) Dibromofluoromethane	5.391	113	221915	53.412	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.820%			
50) Toluene-d8	8.647	98	795902	59.152	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 118.300%#			
62) 4-Bromofluorobenzene	11.079	95	301421	51.983	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.960%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.154	74	1887	0.647	ug/l	93
10) Methyl Iodide	2.471	142	2714	0.535	ug/l #	74
11) Tert butyl alcohol	2.965	59	870	Below Cal	#	72
14) Allyl chloride	2.715	41	5633	0.632	ug/l #	32
16) Acetone	2.392	43	62955	32.140	ug/l	93
18) Methyl Acetate	2.715	43	30442	5.848	ug/l	99
20) Methylene Chloride	2.800	84	24941	4.628	ug/l	93
25) 2-Butanone	4.611	43	10246	3.592	ug/l	97
31) Cyclohexane	5.550	56	8914	0.975	ug/l #	27
36) 1,1-Dichloropropene	5.556	75	33435	4.721	ug/l #	50
37) Ethyl Acetate	4.733	43	14950	2.291	ug/l #	96
38) Carbon Tetrachloride	5.556	117	41991	5.555	ug/l #	16
43) Isopropyl Acetate	6.348	43	14899	1.464	ug/l	97
48) Methyl methacrylate	7.799	41	124517	22.467	ug/l #	45
49) 1,4-Dioxane	7.799	88	232	3.680	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	170308	28.164	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	78824	9.954	ug/l #	60
57) 1,3-Dichloropropane	9.482	76	5576	0.679	ug/l #	43
59) 2-Hexanone	9.378	43	23866	5.974	ug/l #	25
76) 1,2,3-Trichloropropane	11.079	75	157912	28.819	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	157912	74.249	ug/l #	8

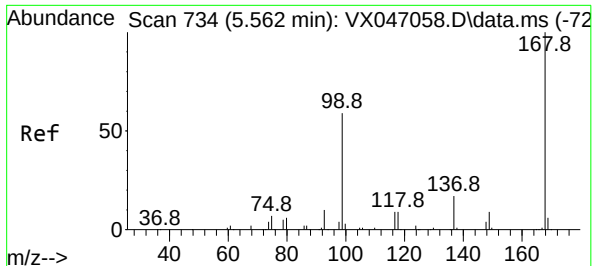
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

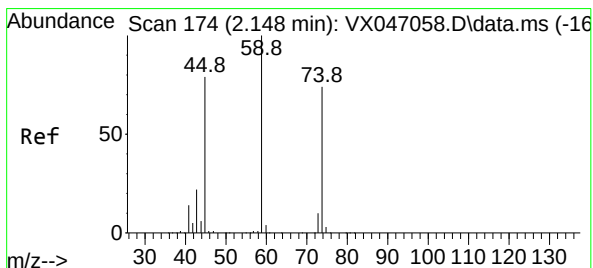
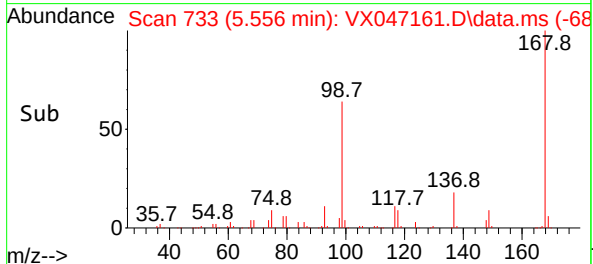
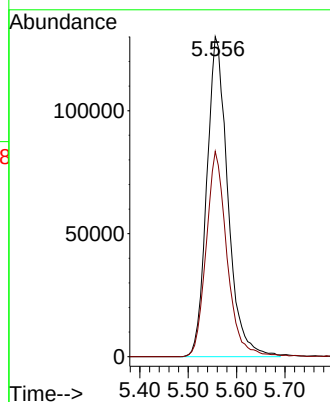
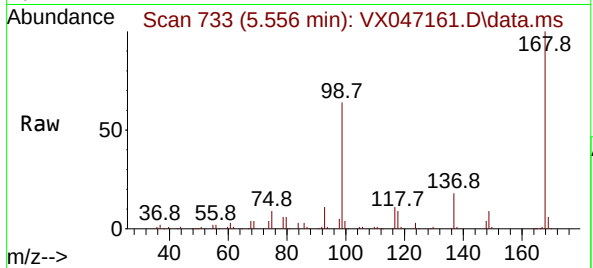




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

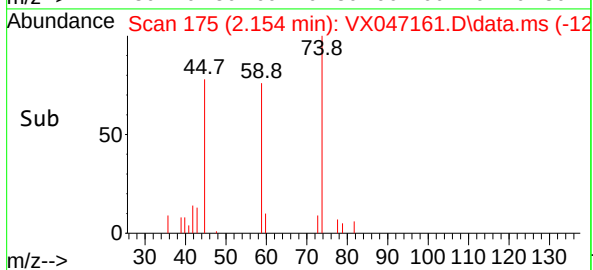
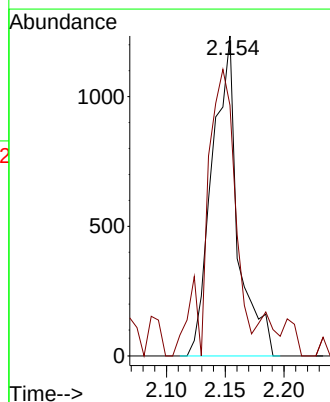
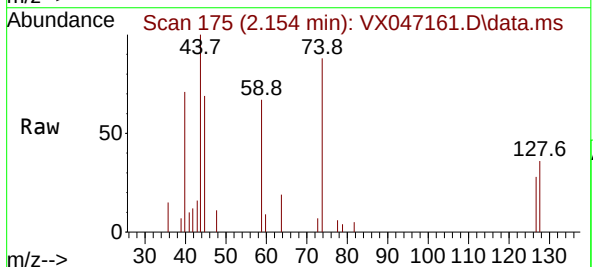
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

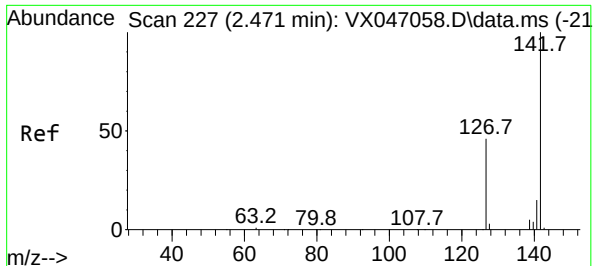
Tgt Ion:168 Resp: 392521
Ion Ratio Lower Upper
168 100
99 64.1 48.0 72.0



#8
Diethyl Ether
Concen: 0.647 ug/l
RT: 2.154 min Scan# 175
Delta R.T. 0.006 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

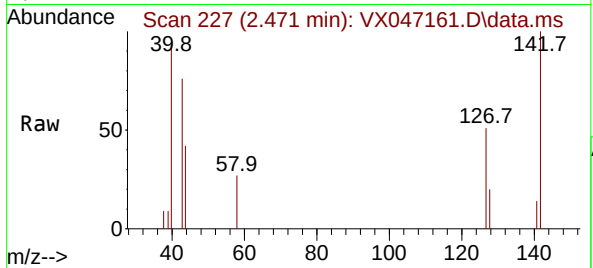
Tgt Ion: 74 Resp: 1887
Ion Ratio Lower Upper
74 100
45 98.7 53.0 159.0



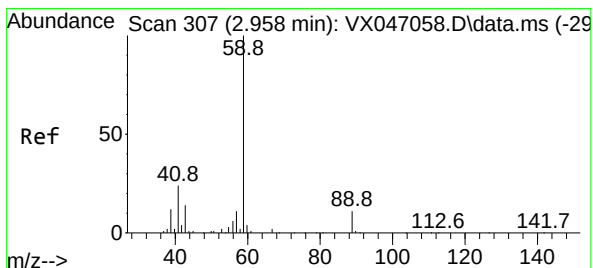
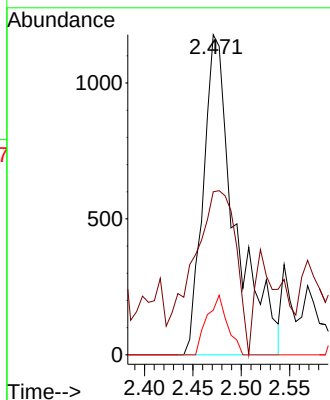


#10
Methyl Iodide
Concen: 0.535 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

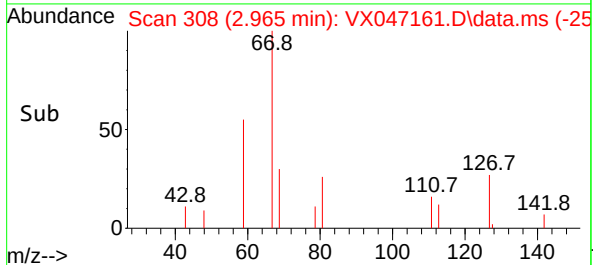
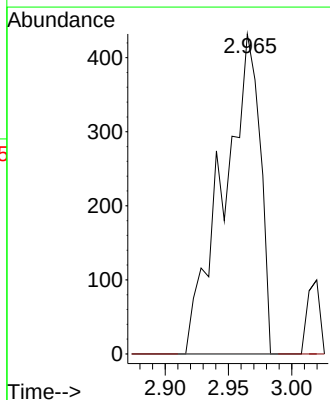
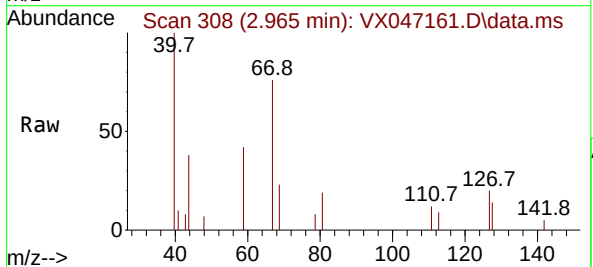


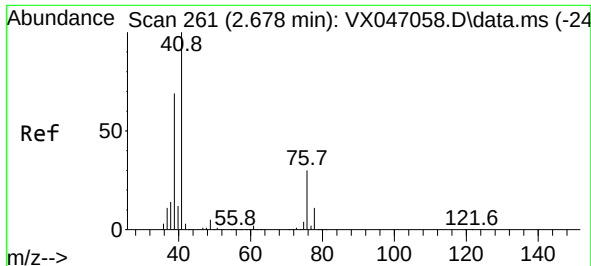
Tgt Ion:142 Resp: 2714
Ion Ratio Lower Upper
142 100
127 66.9 36.6 54.8#
141 11.9 10.9 16.3



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.965 min Scan# 308
Delta R.T. 0.007 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 59 Resp: 870
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

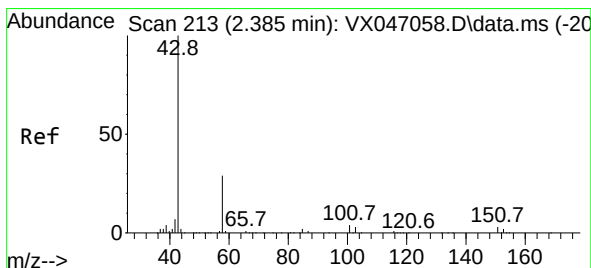
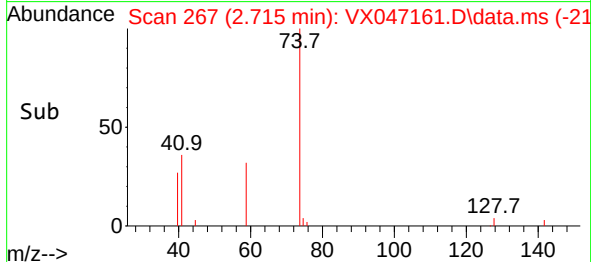
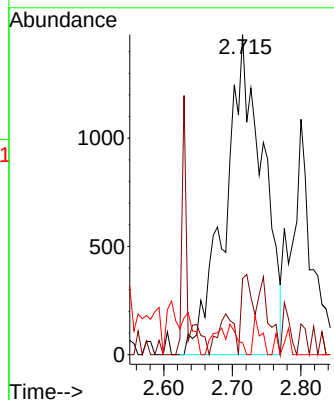
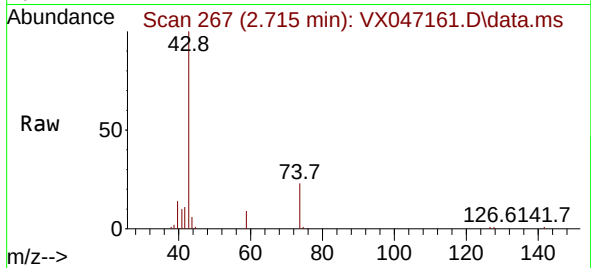




#14
 Allyl chloride
 Concen: 0.632 ug/l
 RT: 2.715 min Scan# 214
 Delta R.T. 0.037 min
 Lab File: VX047161.D
 Acq: 28 Jul 2025 13:42

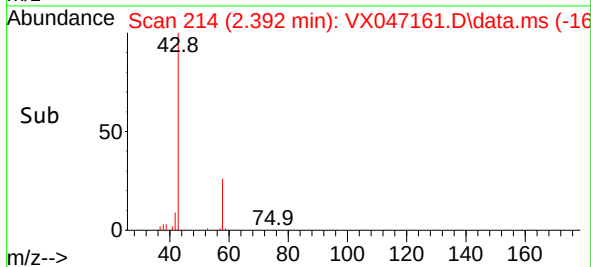
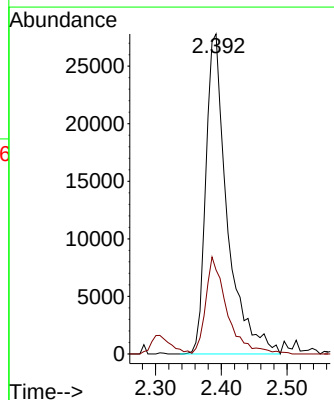
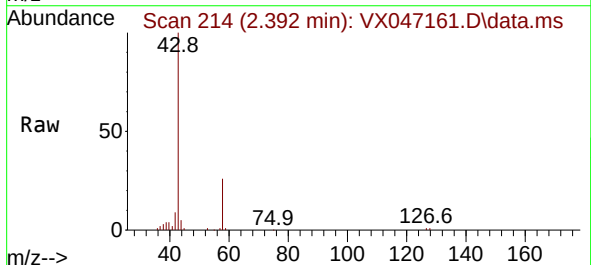
Instrument :
 MSVOA_X
 ClientSampleId :
 PB169005TB

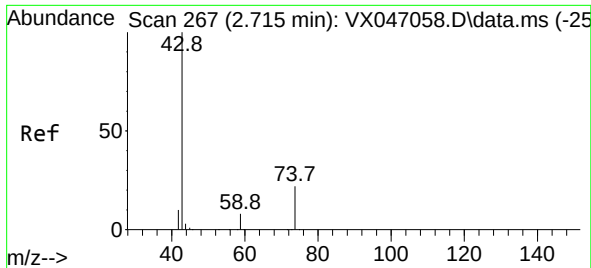
Tgt Ion: 41 Resp: 5633
 Ion Ratio Lower Upper
 41 100
 39 7.6 52.6 78.8#
 76 0.0 25.7 38.5#



#16
 Acetone
 Concen: 32.140 ug/l
 RT: 2.392 min Scan# 214
 Delta R.T. 0.006 min
 Lab File: VX047161.D
 Acq: 28 Jul 2025 13:42

Tgt Ion: 43 Resp: 62955
 Ion Ratio Lower Upper
 43 100
 58 26.2 24.0 36.0

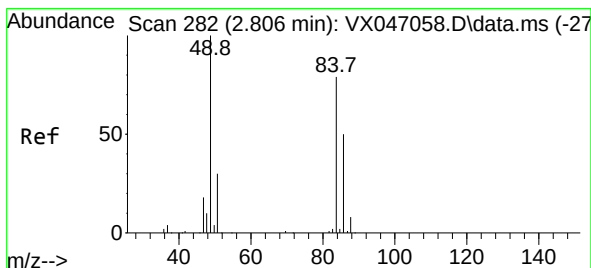
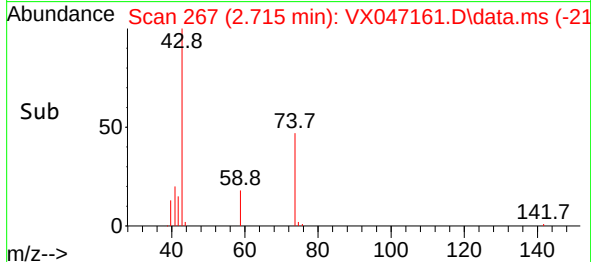
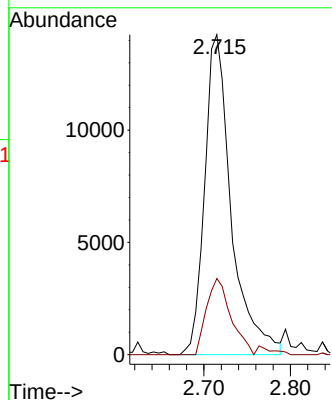
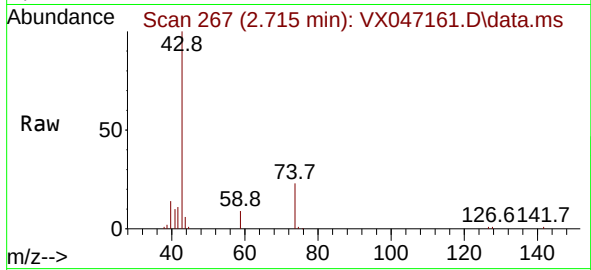




#18
Methyl Acetate
Concen: 5.848 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

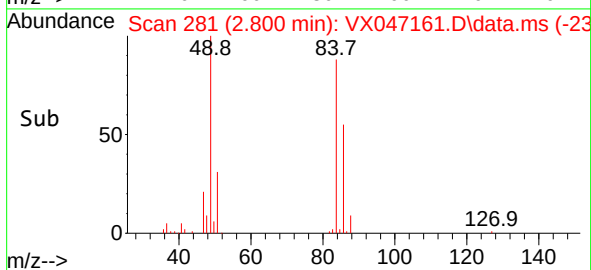
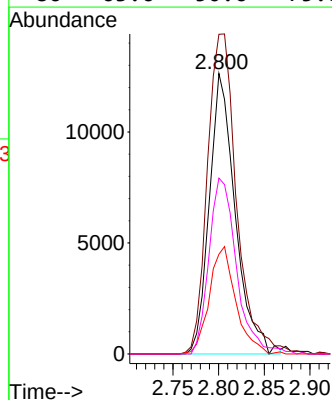
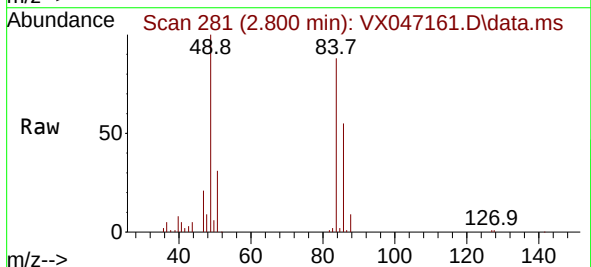
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

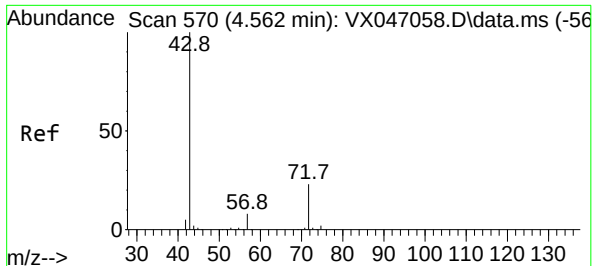
Tgt Ion: 43 Resp: 30442
Ion Ratio Lower Upper
43 100
74 21.8 17.7 26.5



#20
Methylene Chloride
Concen: 4.628 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 84 Resp: 24941
Ion Ratio Lower Upper
84 100
49 114.0 101.6 152.4
51 35.6 30.3 45.5
86 63.6 50.6 75.8





#25

2-Butanone

Concen: 3.592 ug/l

RT: 4.611 min Scan# 51

Delta R.T. 0.049 min

Lab File: VX047161.D

Acq: 28 Jul 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

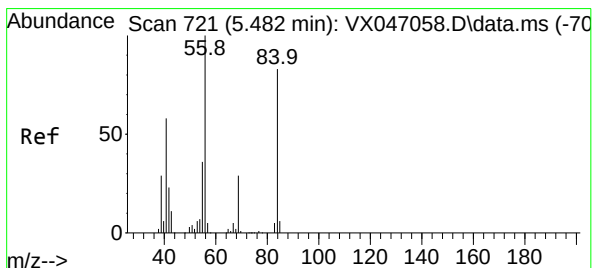
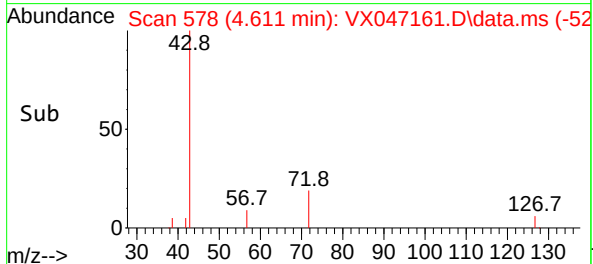
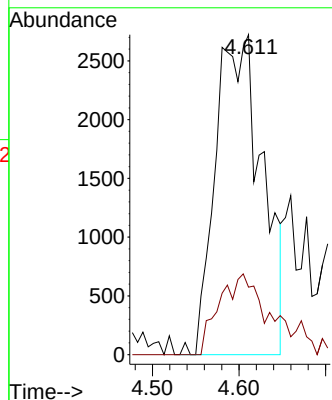
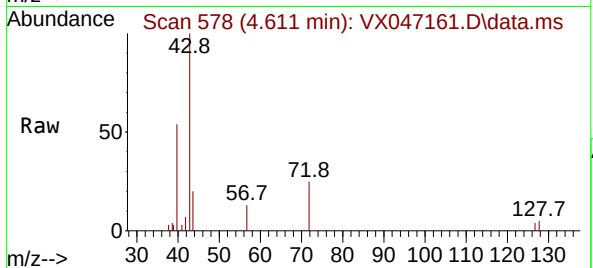
PB169005TB

Tgt Ion: 43 Resp: 10246

Ion Ratio Lower Upper

43 100

72 25.1 18.8 28.2



#31

Cyclohexane

Concen: 0.975 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.067 min

Lab File: VX047161.D

Acq: 28 Jul 2025 13:42

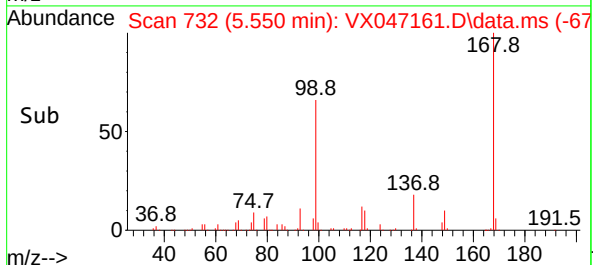
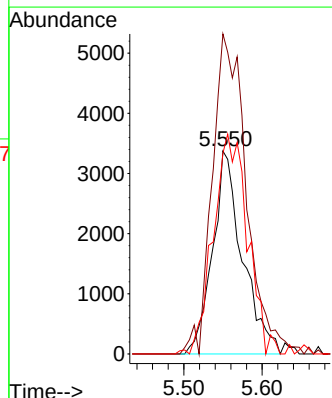
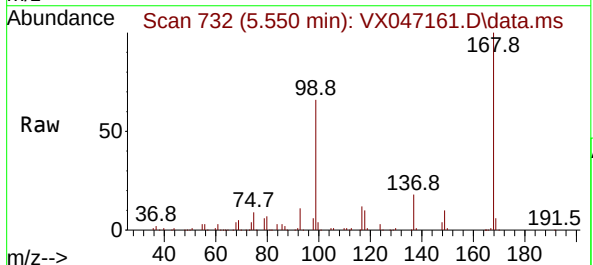
Tgt Ion: 56 Resp: 8914

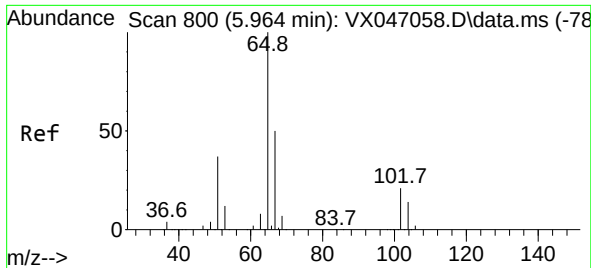
Ion Ratio Lower Upper

56 100

69 156.5 23.3 34.9#

84 96.8 66.5 99.7

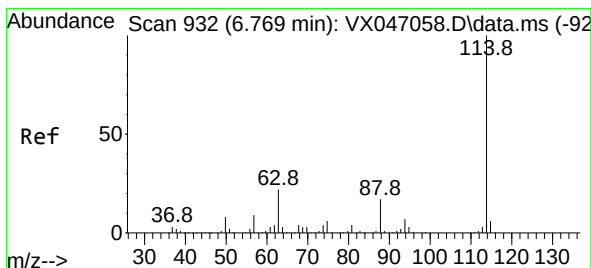
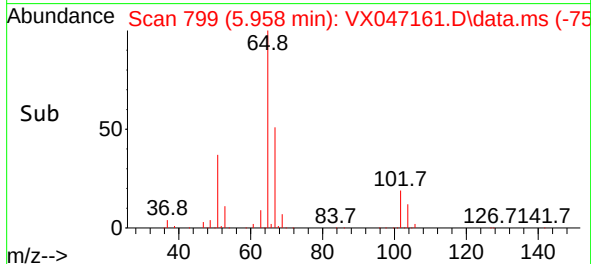
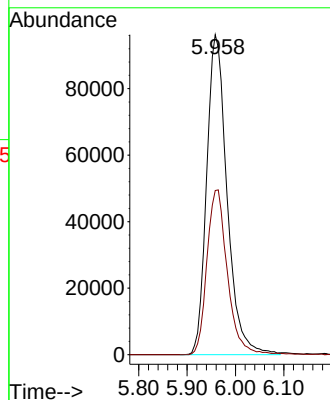
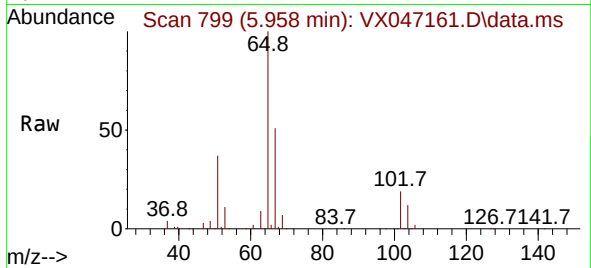




#33
1,2-Dichloroethane-d4
Concen: 57.642 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

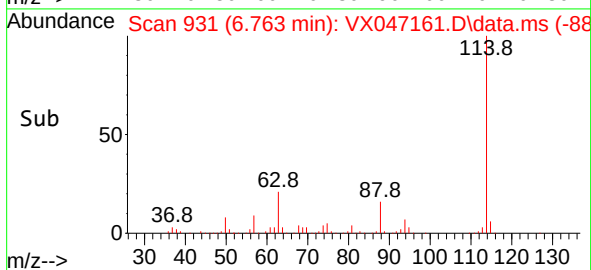
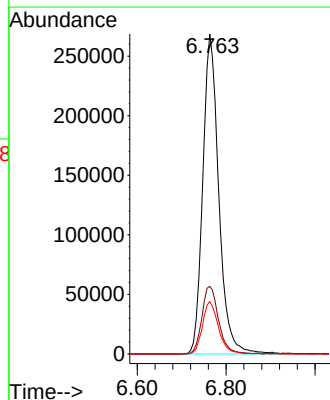
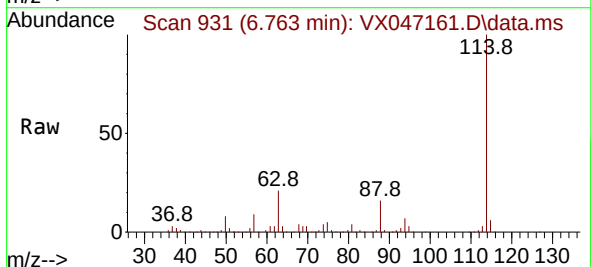
Instrument :
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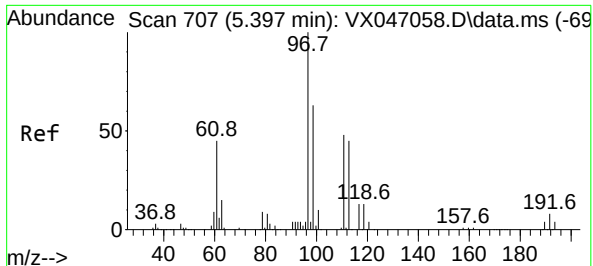
Tgt Ion: 65 Resp: 281846
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.006 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 114 Resp: 672910
Ion Ratio Lower Upper
114 100
63 21.1 0.0 43.2
88 16.3 0.0 33.8





#35

Dibromofluoromethane

Concen: 53.412 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX047161.D

Acq: 28 Jul 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

PB169005TB

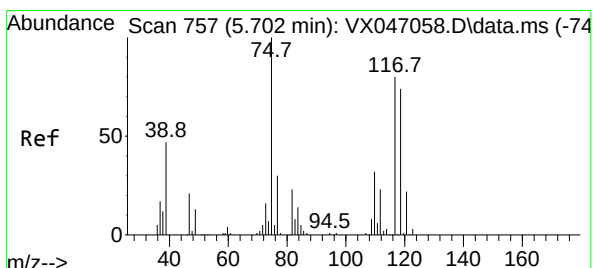
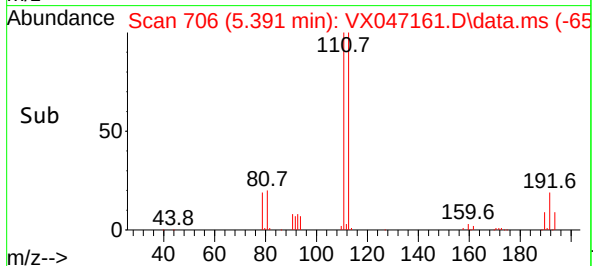
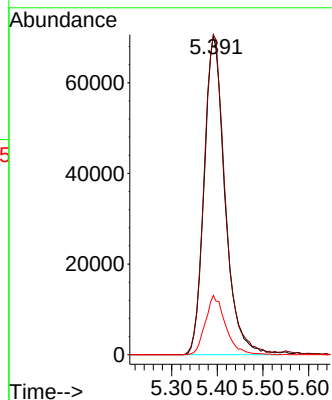
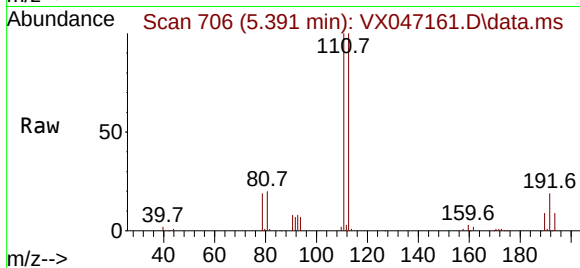
Tgt Ion:113 Resp: 221915

Ion Ratio Lower Upper

113 100

111 102.0 82.6 124.0

192 18.1 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.721 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.146 min

Lab File: VX047161.D

Acq: 28 Jul 2025 13:42

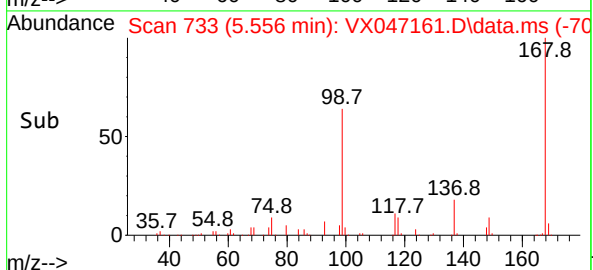
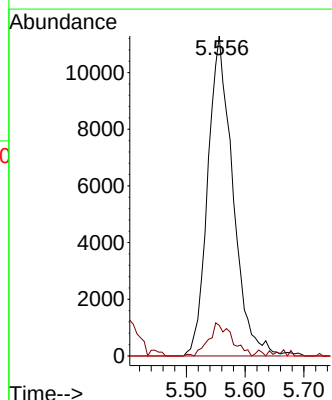
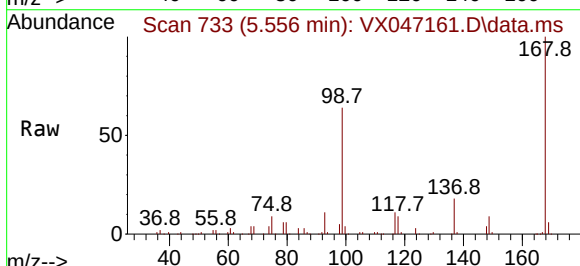
Tgt Ion: 75 Resp: 33435

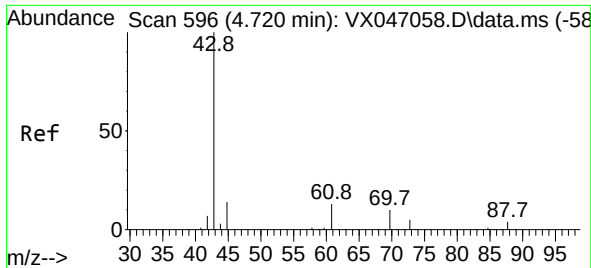
Ion Ratio Lower Upper

75 100

110 9.5 17.2 51.5#

77 0.0 25.1 37.7#

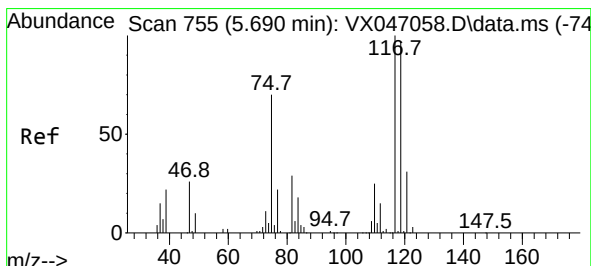
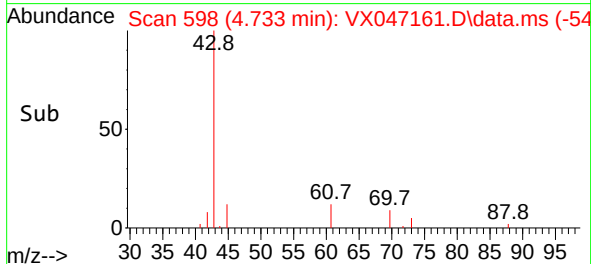
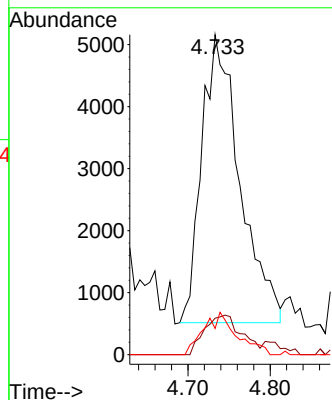
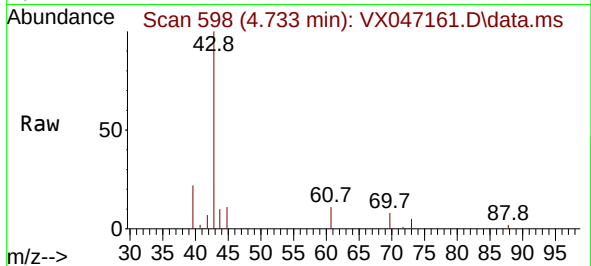




#37
Ethyl Acetate
Concen: 2.291 ug/l
RT: 4.733 min Scan# 596
Delta R.T. 0.013 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

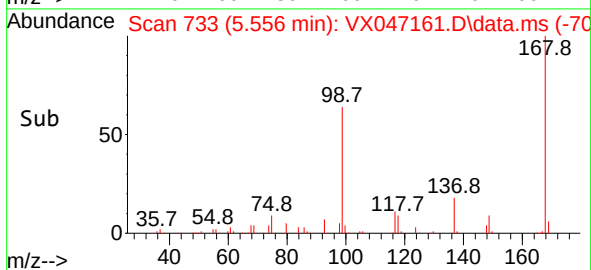
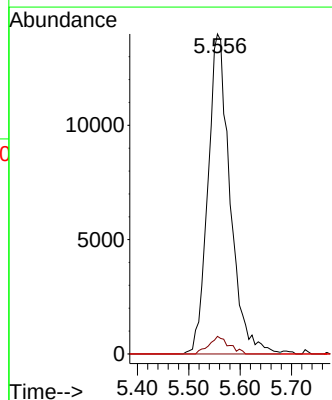
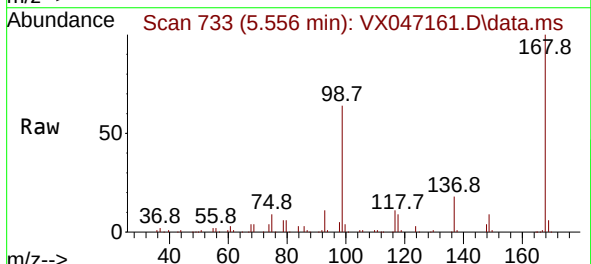
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

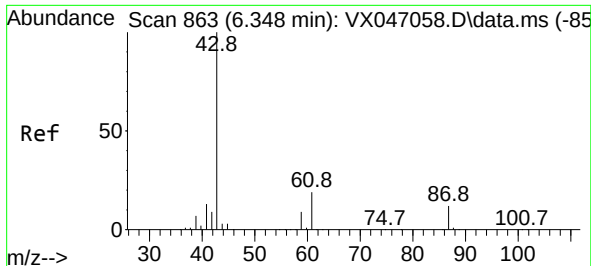
Tgt Ion: 43 Resp: 14950
Ion Ratio Lower Upper
43 100
61 13.3 10.2 15.2
70 12.8 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 5.555 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.134 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 117 Resp: 41991
Ion Ratio Lower Upper
117 100
119 5.5 76.6 115.0#
121 0.0 24.4 36.6#

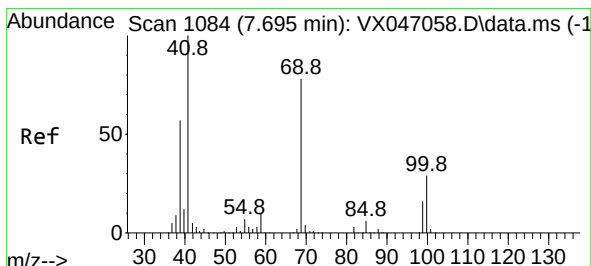
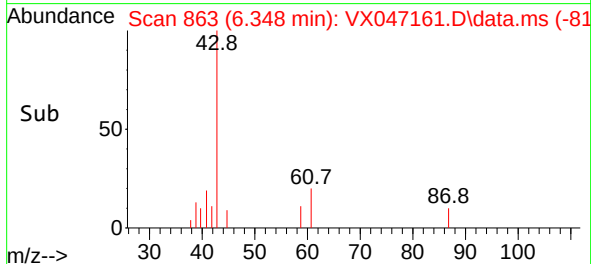
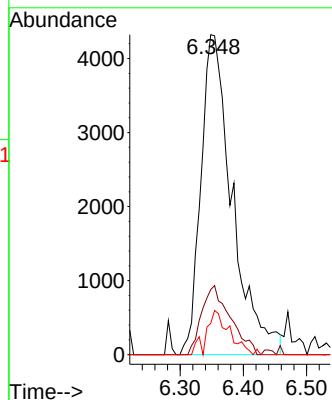
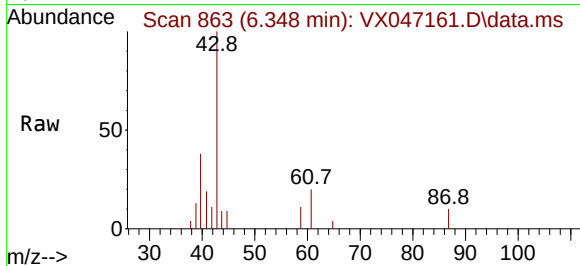




#43
Isopropyl Acetate
Concen: 1.464 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.000 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

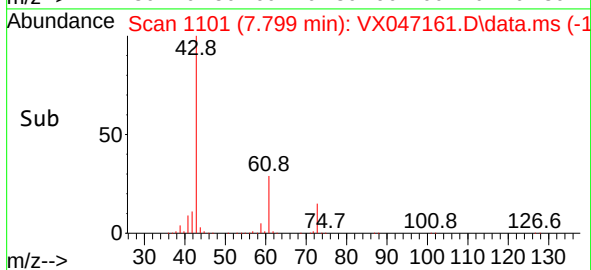
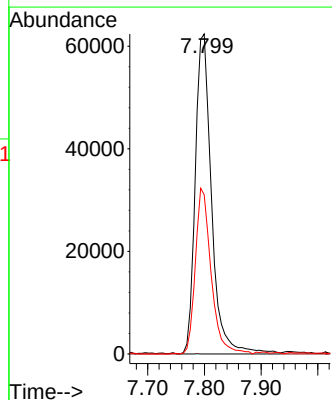
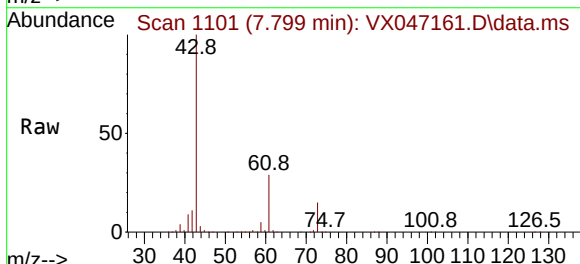
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

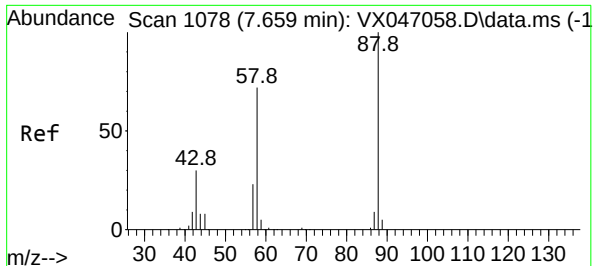
Tgt Ion: 43 Resp: 14899
Ion Ratio Lower Upper
43 100
61 19.7 15.1 22.7
87 10.0 9.7 14.5



#48
Methyl methacrylate
Concen: 22.467 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 41 Resp: 124517
Ion Ratio Lower Upper
41 100
69 0.0 62.3 93.5#
39 50.2 44.8 67.2

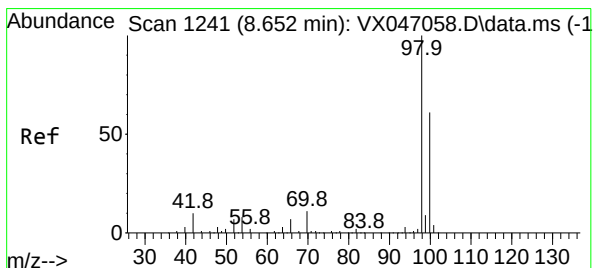
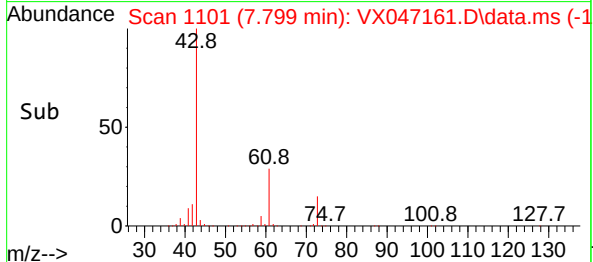
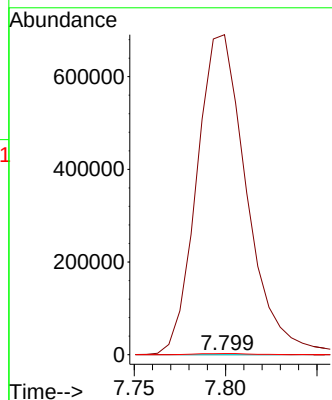
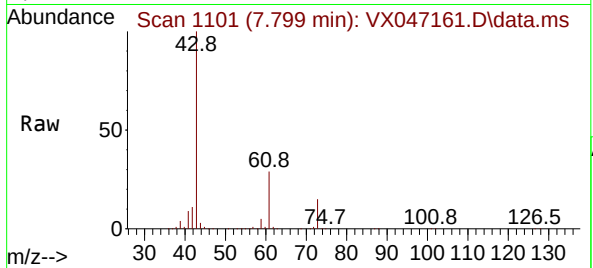




#49
1,4-Dioxane
Concen: 3.680 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.141 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

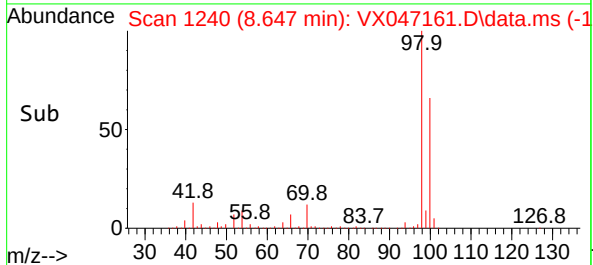
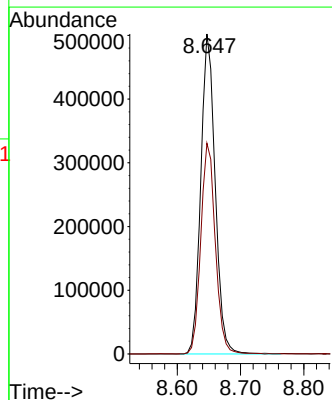
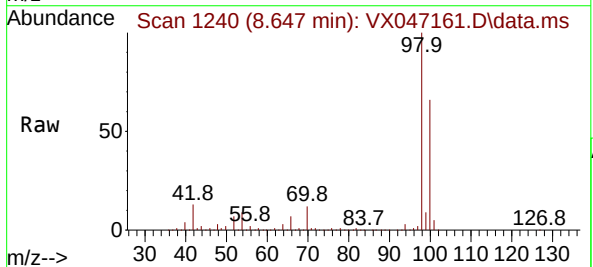
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

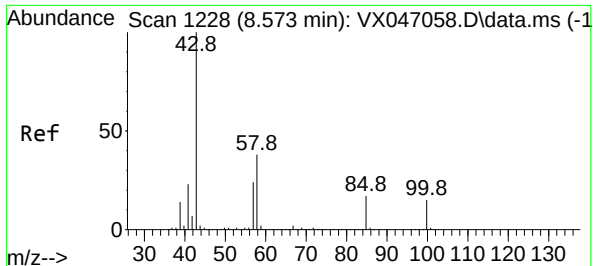
Tgt Ion: 88 Resp: 232
Ion Ratio Lower Upper
88 100
43 576030.2 33.6 50.4#
58 2242.2 58.8 88.2#



#50
Toluene-d8
Concen: 59.152 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 98 Resp: 795902
Ion Ratio Lower Upper
98 100
100 66.5 53.3 79.9

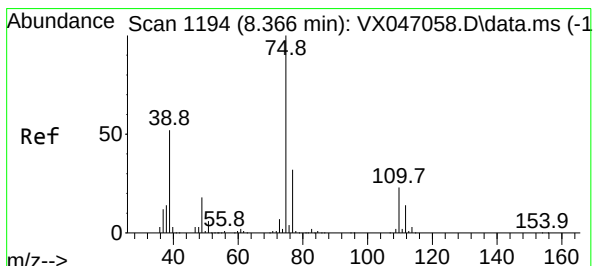
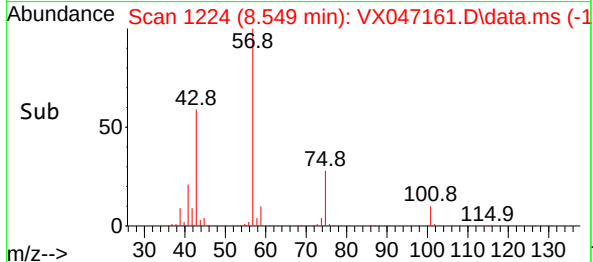
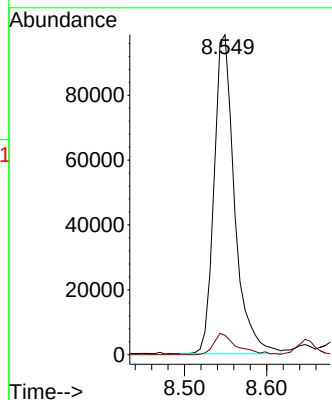
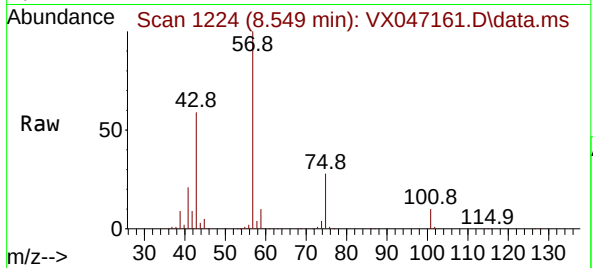




#51
4-Methyl-2-Pentanone
Concen: 28.164 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

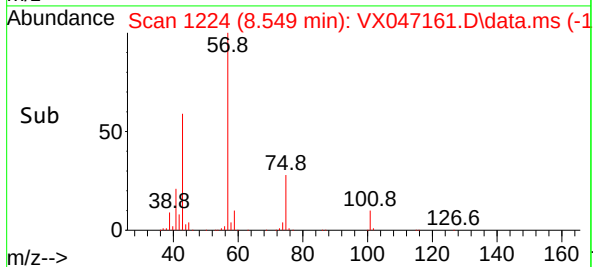
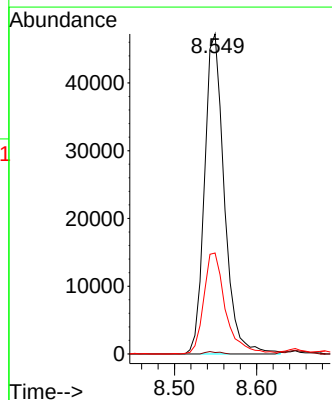
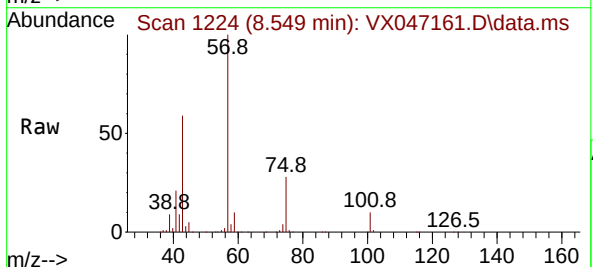
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

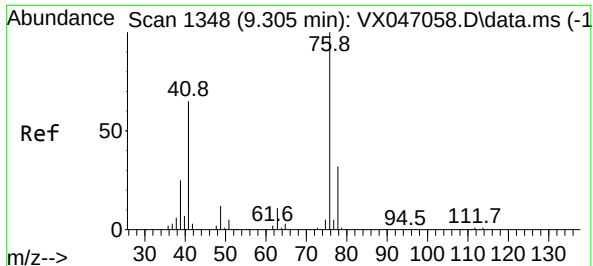
Tgt Ion: 43 Resp: 170308
Ion Ratio Lower Upper
43 100
58 7.4 30.6 45.8#



#54
cis-1,3-Dichloropropene
Concen: 9.954 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 75 Resp: 78824
Ion Ratio Lower Upper
75 100
77 0.5 25.4 38.0#
39 31.5 41.8 62.6#

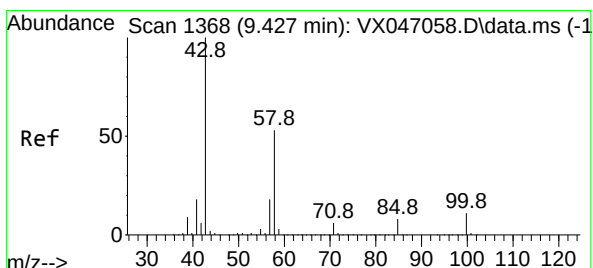
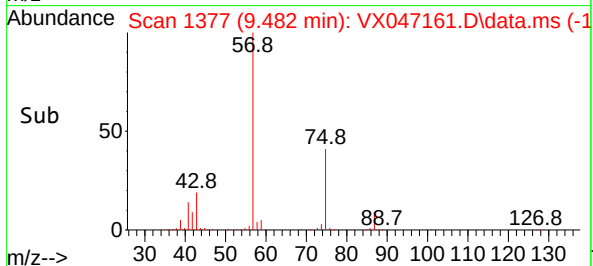
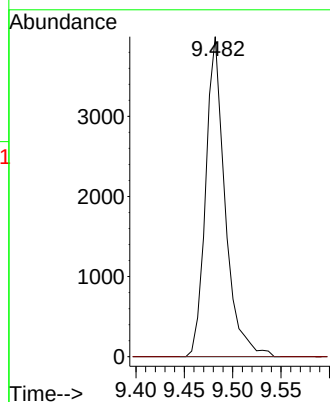
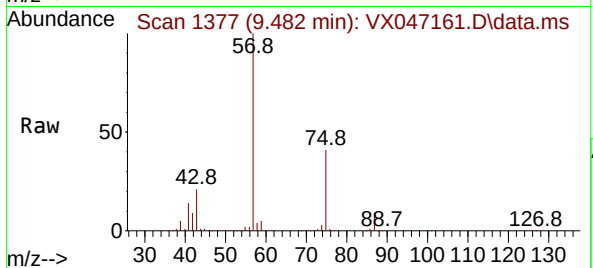




#57
1,3-Dichloropropane
Concen: 0.679 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

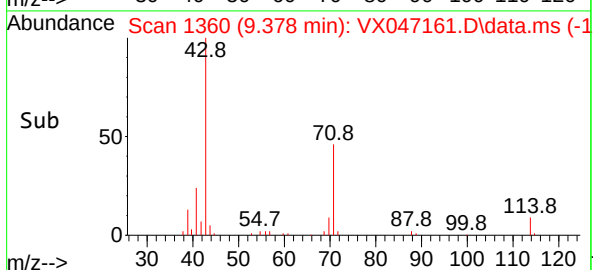
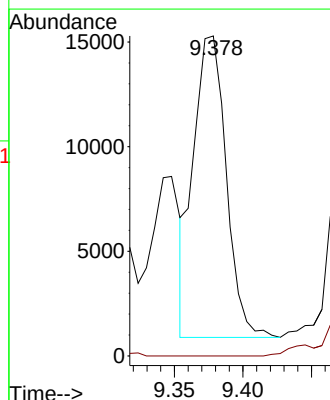
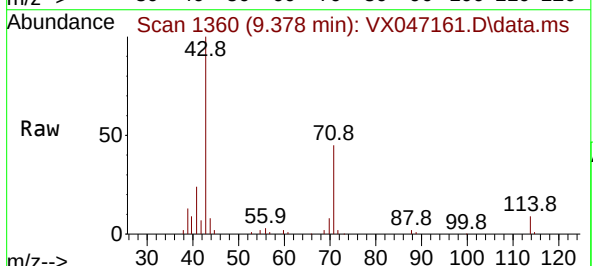
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

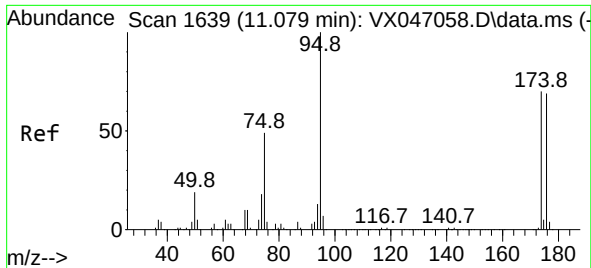
Tgt Ion: 76 Resp: 5576
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#



#59
2-Hexanone
Concen: 5.974 ug/l
RT: 9.378 min Scan# 1360
Delta R.T. -0.048 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 43 Resp: 23866
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#

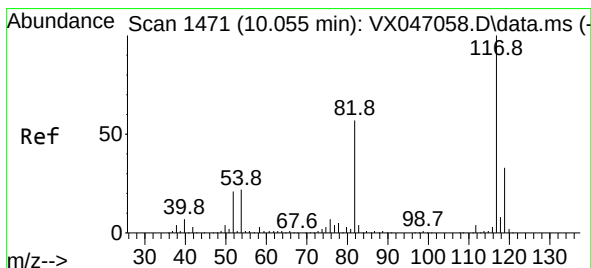
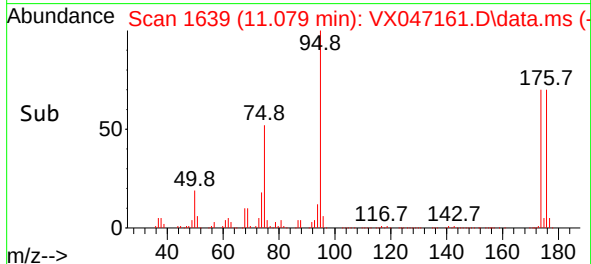
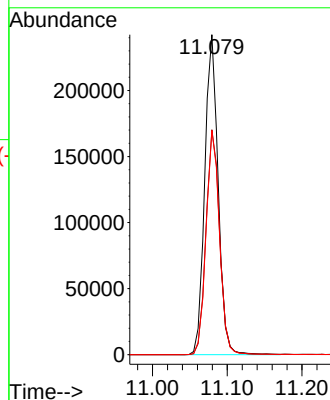
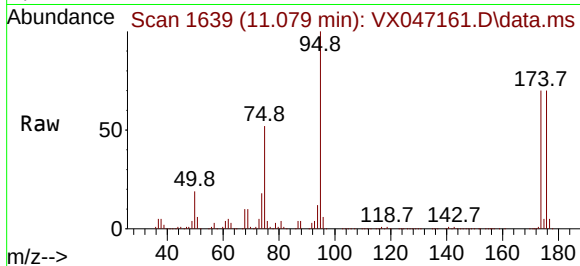




#62
4-Bromofluorobenzene
Concen: 51.983 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

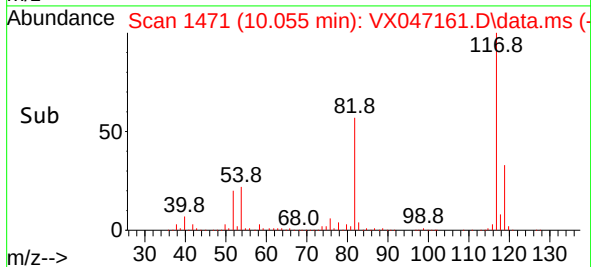
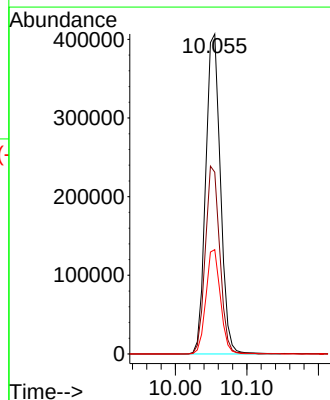
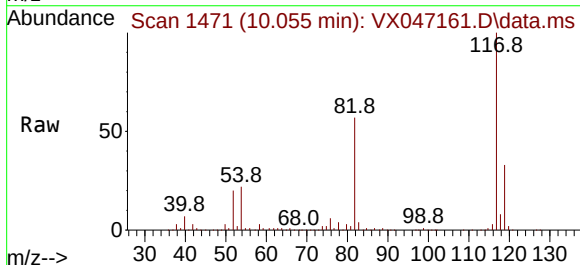
Instrument :
MSVOA_X
ClientSampleId :
PB169005TB

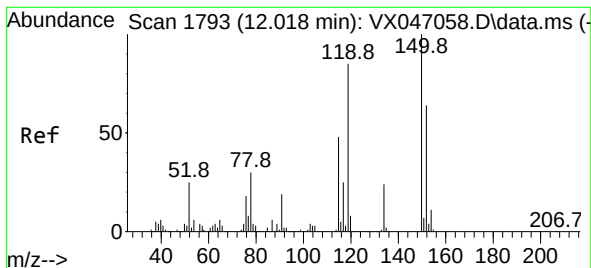
Tgt Ion: 95 Resp: 301421
Ion Ratio Lower Upper
95 100
174 71.3 0.0 144.6
176 70.5 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047161.D
Acq: 28 Jul 2025 13:42

Tgt Ion: 117 Resp: 582759
Ion Ratio Lower Upper
117 100
82 56.8 45.4 68.2
119 32.6 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047161.D

Acq: 28 Jul 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

PB169005TB

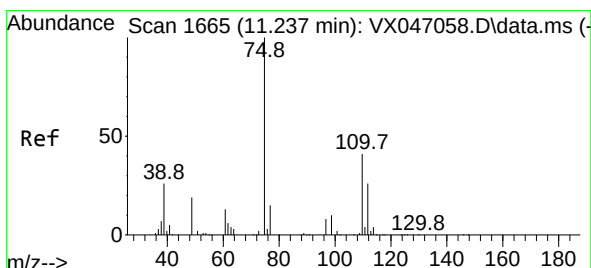
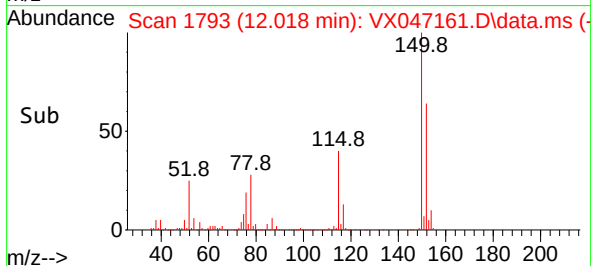
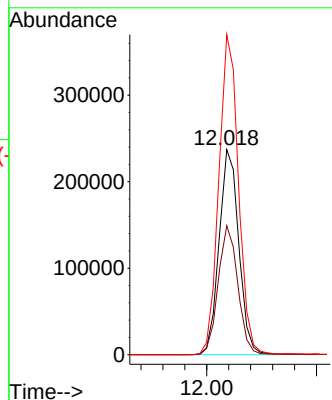
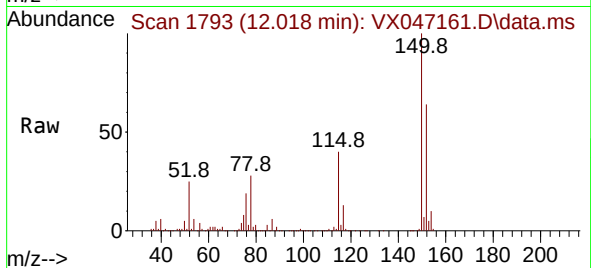
Tgt Ion:152 Resp: 296033

Ion Ratio Lower Upper

152 100

115 62.9 45.6 136.7

150 156.1 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 28.819 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047161.D

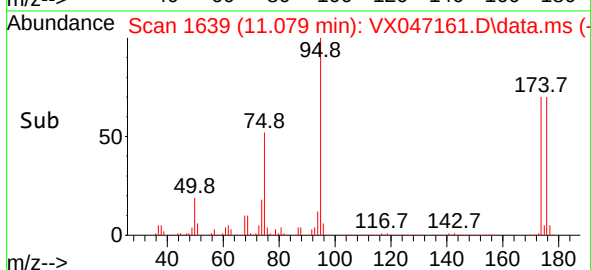
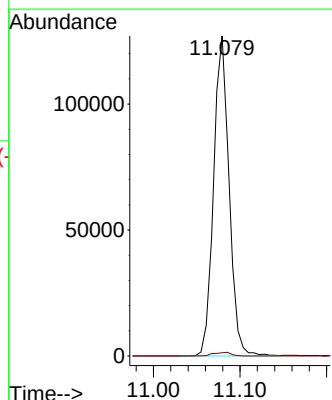
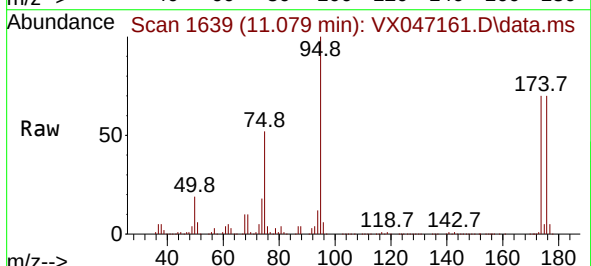
Acq: 28 Jul 2025 13:42

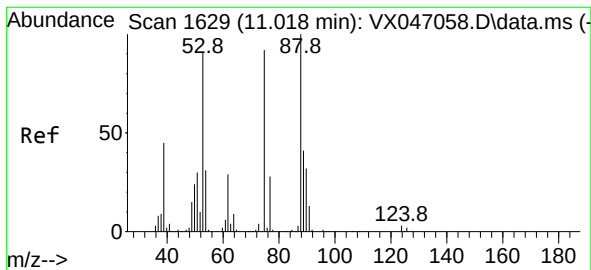
Tgt Ion: 75 Resp: 157912

Ion Ratio Lower Upper

75 100

77 1.3 21.6 65.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.249 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX047161.D
 Acq: 28 Jul 2025 13:42

Instrument :
 MSVOA_X
 ClientSampleId :
 PB169005TB

Tgt Ion: 75 Resp: 157912
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.2 126.4#
 89 0.0 36.0 54.0#

