

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX073125\
 Data File : VX047199.D
 Acq On : 31 Jul 2025 13:52
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

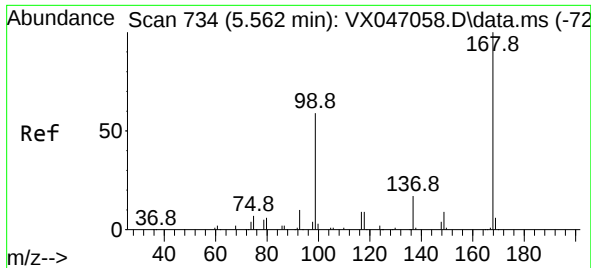
Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Quant Time: Aug 01 01:51:25 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	294125	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	546235	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	507758	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	252752	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	204911	55.928	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	111.860%
35) Dibromofluoromethane	5.391	113	171530	50.859	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.720%
50) Toluene-d8	8.646	98	590951	54.105	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	108.220%
62) 4-Bromofluorobenzene	11.079	95	243437	51.720	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.440%
Target Compounds						
						Qvalue
5) Bromomethane	1.636	94	713	0.316	ug/l	100
10) Methyl Iodide	2.471	142	3784	0.995	ug/l #	72
11) Tert butyl alcohol	2.952	59	116	Below Cal	#	72
13) Acrolein	2.245	56	404	0.512	ug/l	96
14) Allyl chloride	2.666	41	1672	0.250	ug/l #	71
16) Acetone	2.391	43	1361	0.927	ug/l	90
17) Carbon Disulfide	2.532	76	5248	0.491	ug/l	96
18) Methyl Acetate	2.715	43	843	0.216	ug/l #	69
20) Methylene Chloride	2.800	84	888	0.220	ug/l #	82
31) Cyclohexane	5.556	56	6767	0.988	ug/l #	2
36) 1,1-Dichloropropene	5.549	75	24244	4.217	ug/l #	50
38) Carbon Tetrachloride	5.556	117	31402	5.118	ug/l #	16
49) 1,4-Dioxane	7.708	88	29	0.567	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	126616	27.064	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	126616	69.729	ug/l #	8
94) Hexachlorobutadiene	13.719	225	1448	0.742	ug/l	92

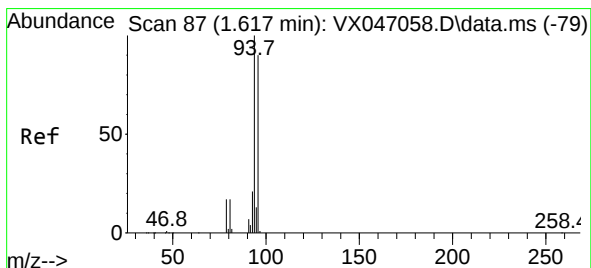
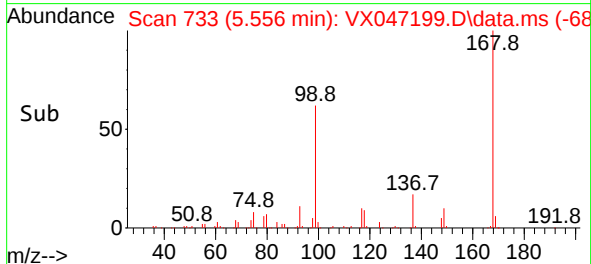
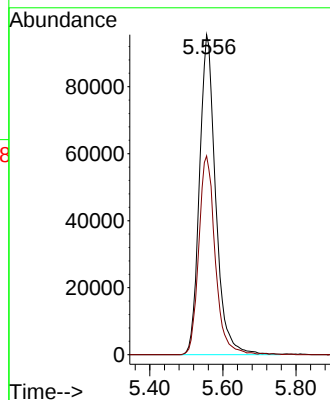
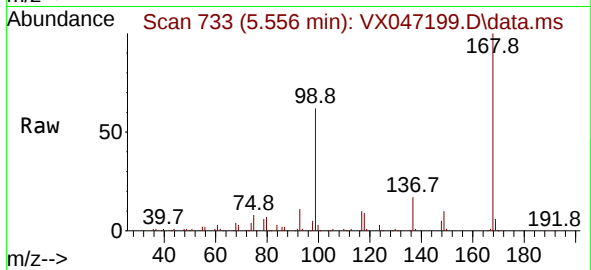
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

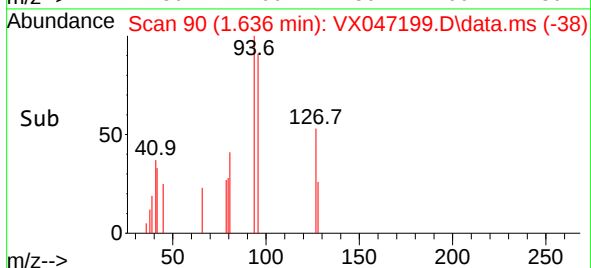
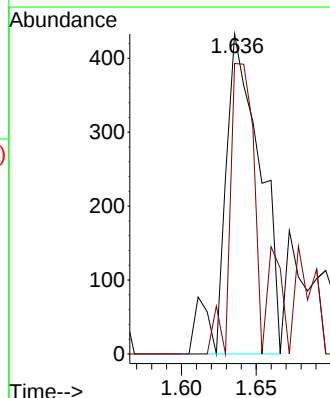
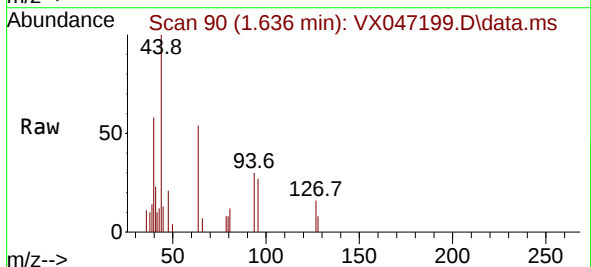
Instrument :
MSVOA_X
ClientSampleId :
IBLK

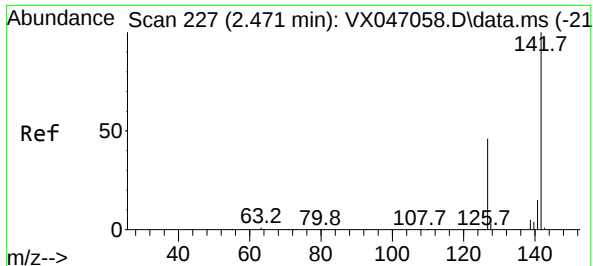
Tgt Ion:168 Resp: 294125
Ion Ratio Lower Upper
168 100
99 62.1 48.0 72.0



#5
Bromomethane
Concen: 0.316 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.018 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 94 Resp: 713
Ion Ratio Lower Upper
94 100
96 90.8 72.3 108.5

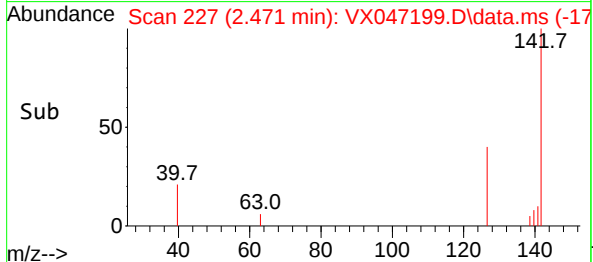
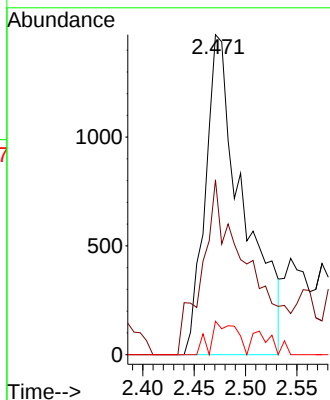
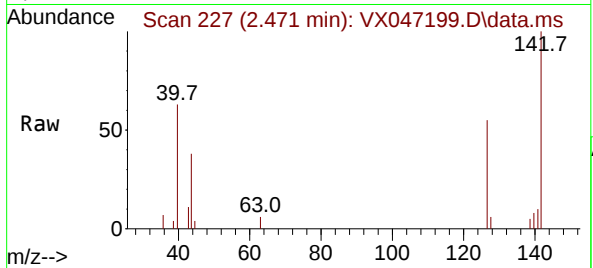




#10
Methyl Iodide
Concen: 0.995 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

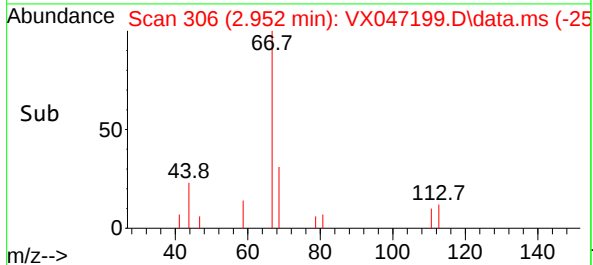
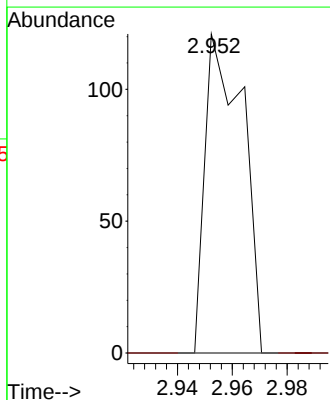
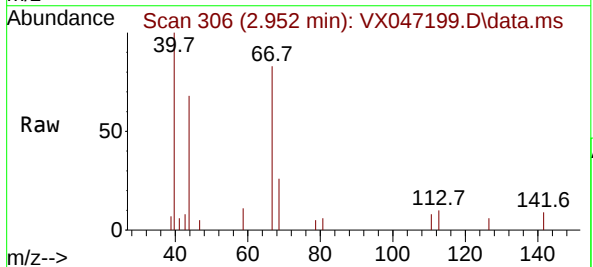
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ClientSampleId :
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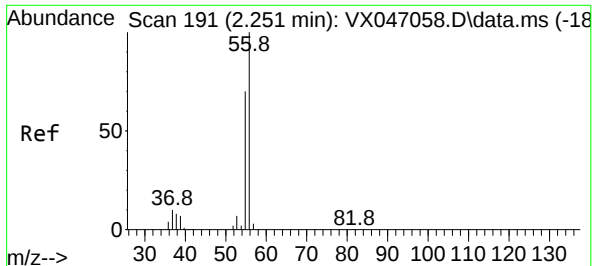
Tgt Ion:142 Resp: 3784
Ion Ratio Lower Upper
142 100
127 66.2 36.6 54.8#
141 7.0 10.9 16.3#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.952 min Scan# 306
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 59 Resp: 116
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

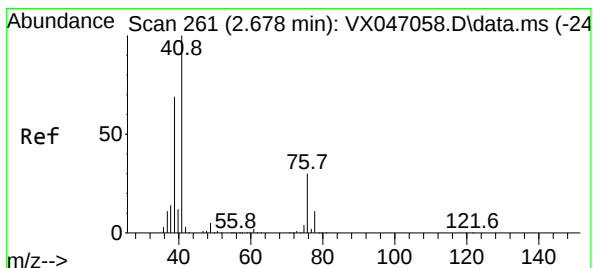
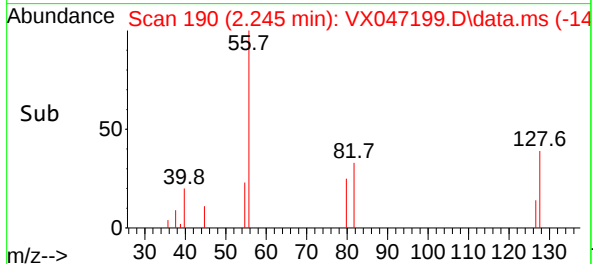
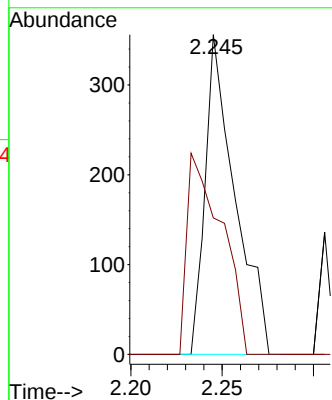
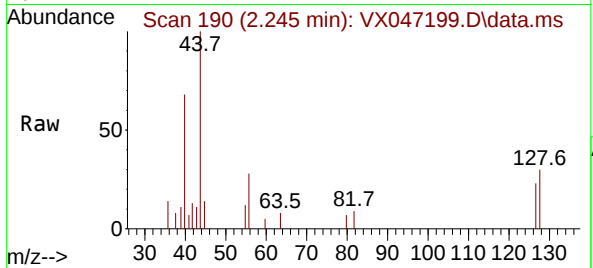




#13
Acrolein
Concen: 0.512 ug/l
RT: 2.245 min Scan# 191
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

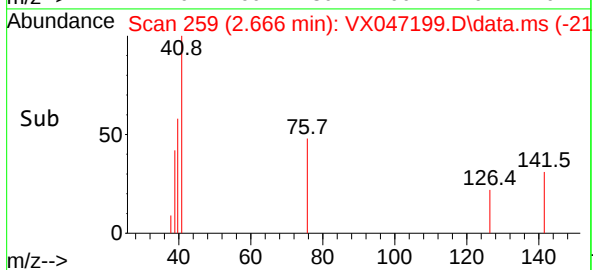
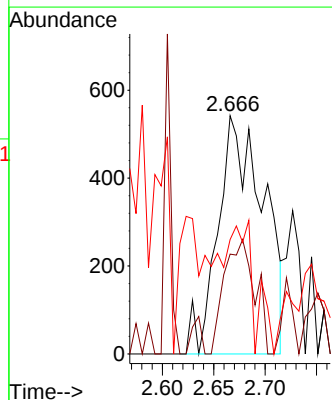
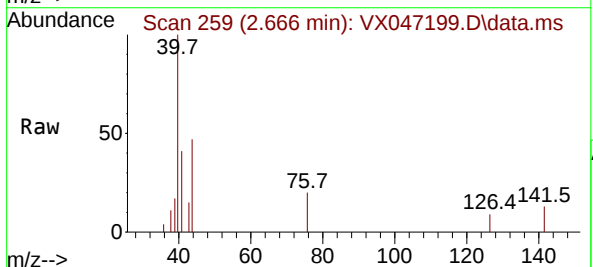
Instrument :
MSVOA_X
ClientSampleId :
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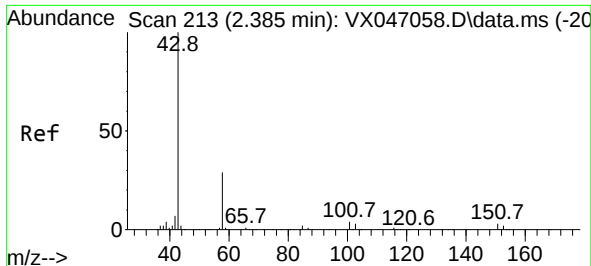
Tgt Ion: 56 Resp: 404
Ion Ratio Lower Upper
56 100
55 73.3 55.7 83.5



#14
Allyl chloride
Concen: 0.250 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.012 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 41 Resp: 1672
Ion Ratio Lower Upper
41 100
39 32.2 52.6 78.8#
76 30.2 25.7 38.5

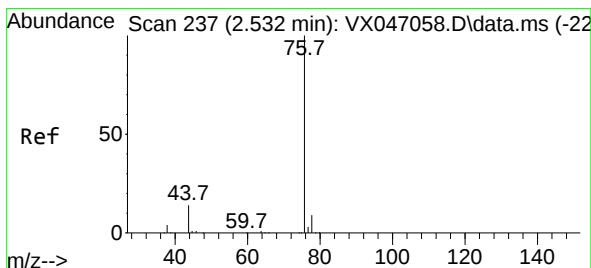
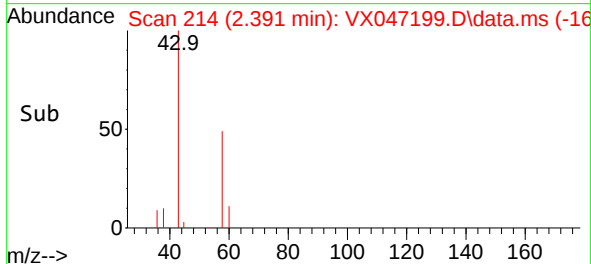
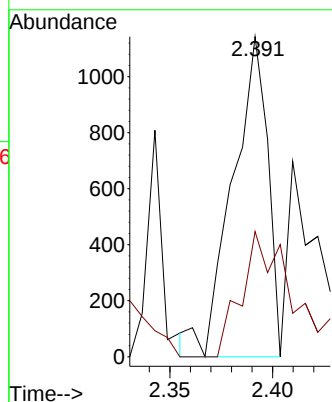
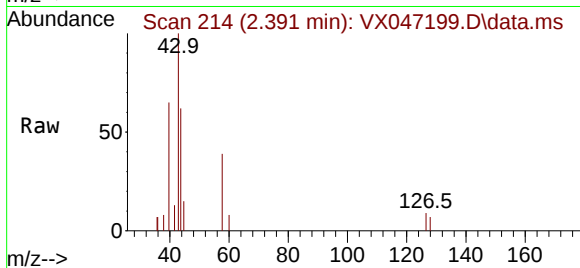




#16
Acetone
Concen: 0.927 ug/l
RT: 2.391 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

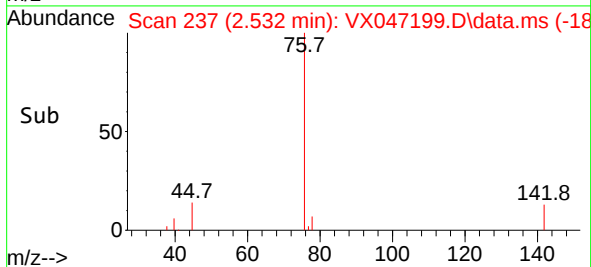
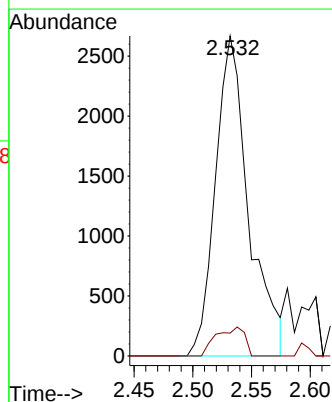
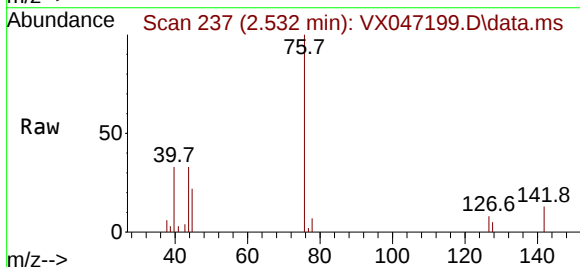
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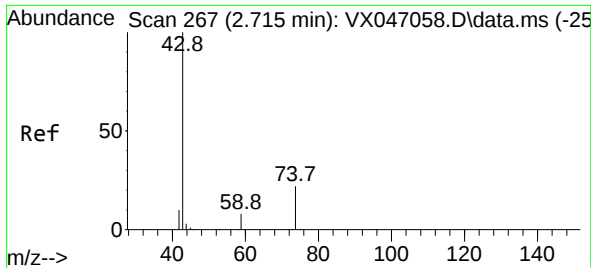
Tgt Ion: 43 Resp: 1361
Ion Ratio Lower Upper
43 100
58 35.4 24.0 36.0



#17
Carbon Disulfide
Concen: 0.491 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 76 Resp: 5248
Ion Ratio Lower Upper
76 100
78 7.2 7.0 10.4

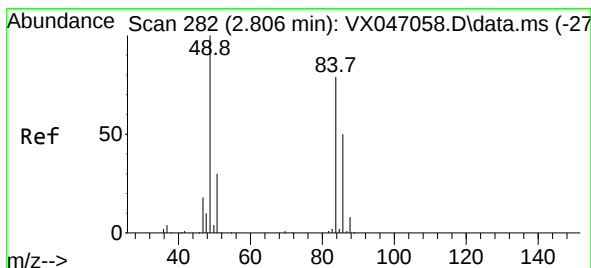
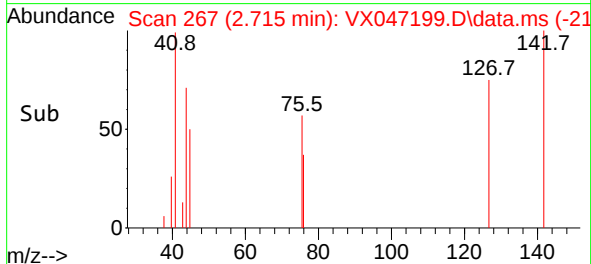
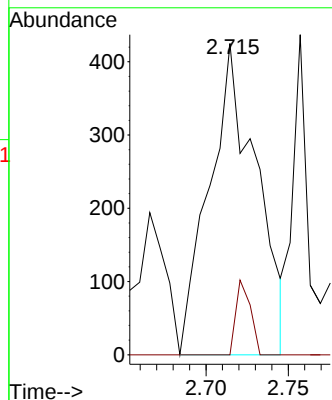
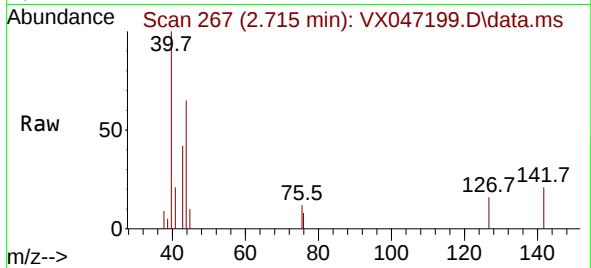




#18
Methyl Acetate
Concen: 0.216 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

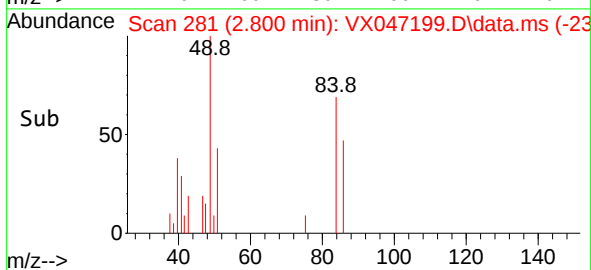
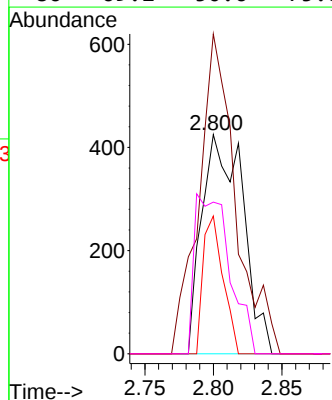
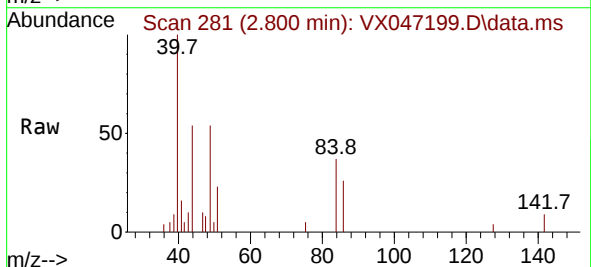
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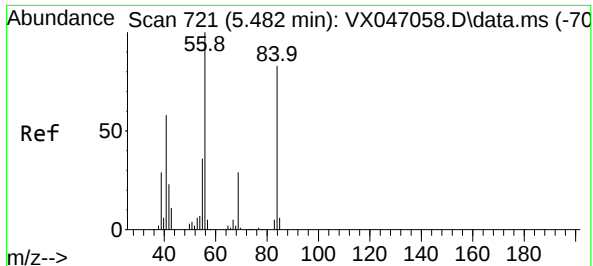
Tgt Ion: 43 Resp: 843
Ion Ratio Lower Upper
43 100
74 7.4 17.7 26.5#



#20
Methylene Chloride
Concen: 0.220 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 84 Resp: 888
Ion Ratio Lower Upper
84 100
49 145.9 101.6 152.4
51 62.8 30.3 45.5#
86 69.2 50.6 75.8

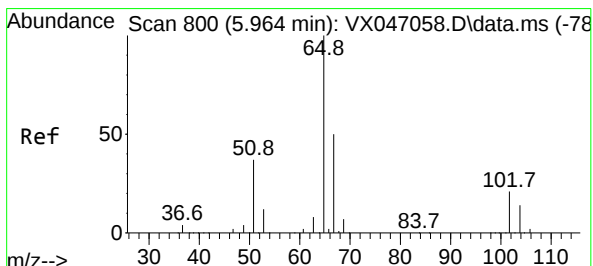
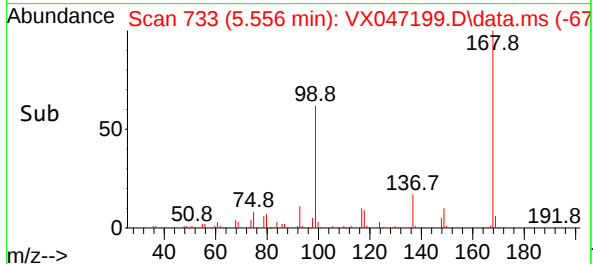
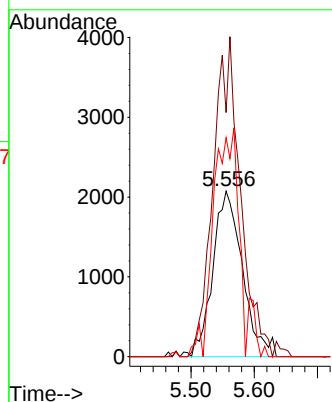
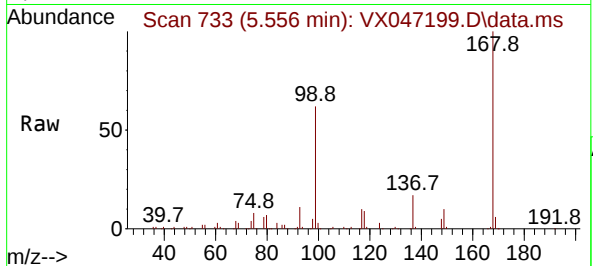




#31
Cyclohexane
Concen: 0.988 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.073 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

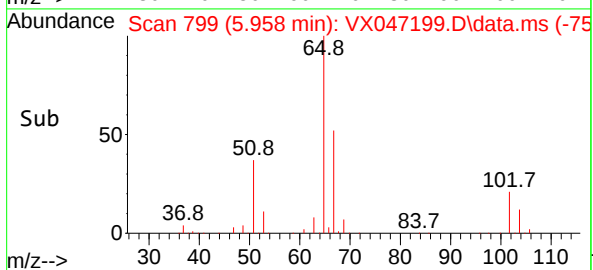
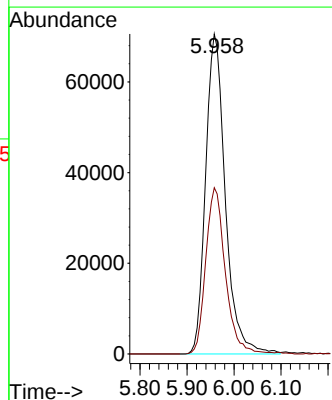
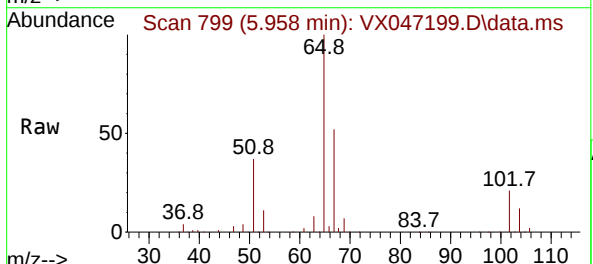
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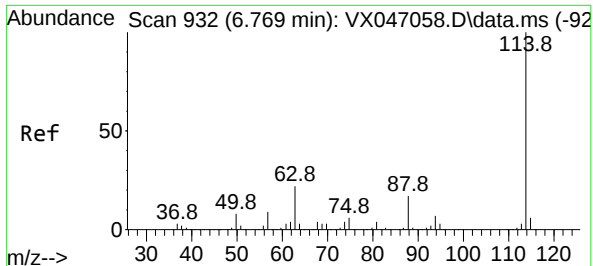
Tgt Ion: 56 Resp: 6767
Ion Ratio Lower Upper
56 100
69 147.5 23.3 34.9#
84 132.4 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 55.928 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 65 Resp: 204911
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.8

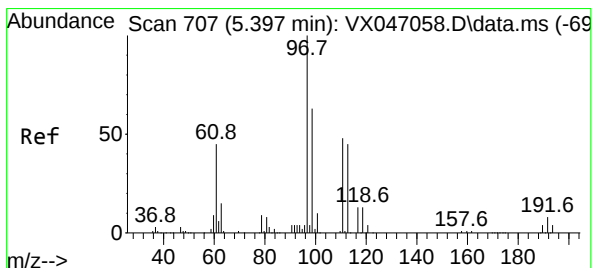
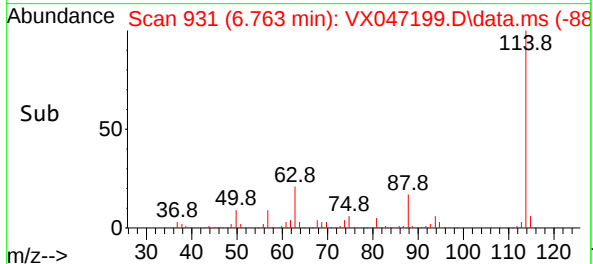
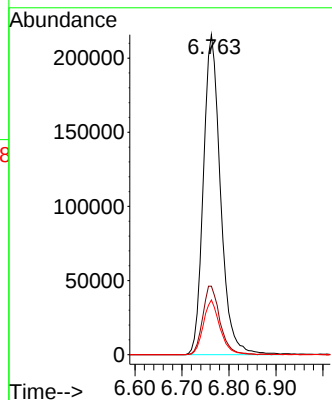
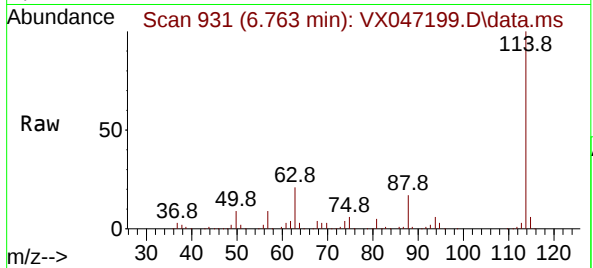




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

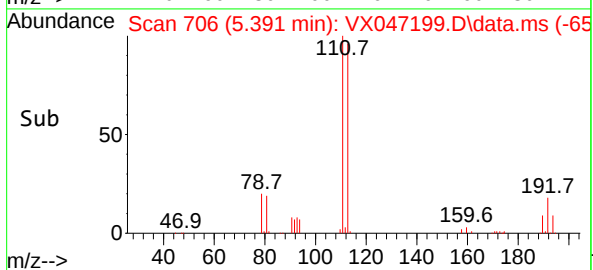
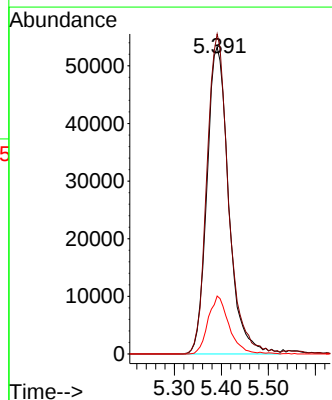
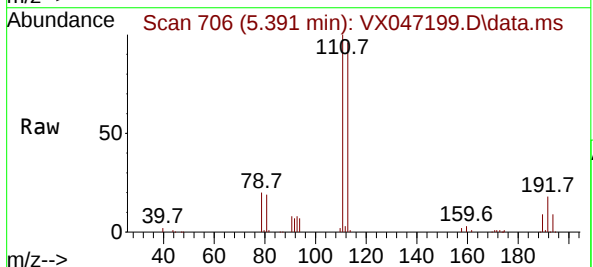
Instrument :
MSVOA_X
ClientSampleId :
IBLK

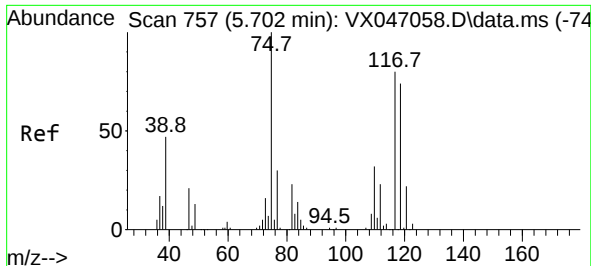
Tgt Ion:114 Resp: 546235
Ion Ratio Lower Upper
114 100
63 21.4 0.0 43.2
88 17.1 0.0 33.8



#35
Dibromofluoromethane
Concen: 50.859 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion:113 Resp: 171530
Ion Ratio Lower Upper
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111 103.3 82.6 124.0
192 18.0 14.9 22.3

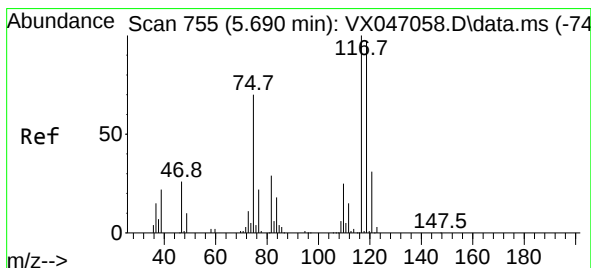
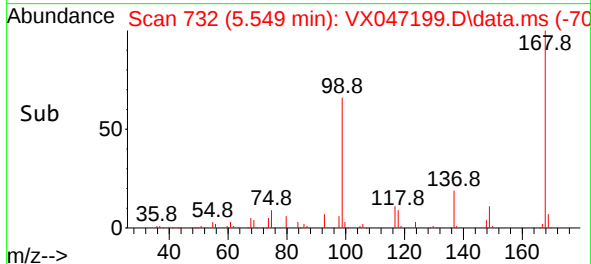
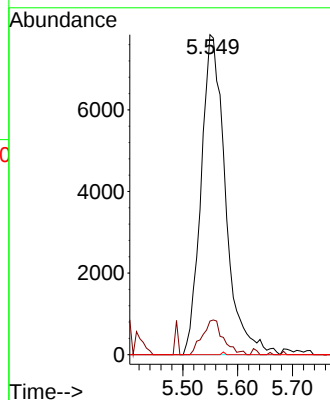
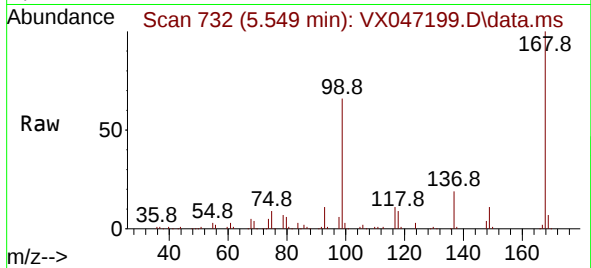




#36
 1,1-Dichloropropene
 Concen: 4.217 ug/l
 RT: 5.549 min Scan# 711
 Delta R.T. -0.152 min
 Lab File: VX047199.D
 Acq: 31 Jul 2025 13:52

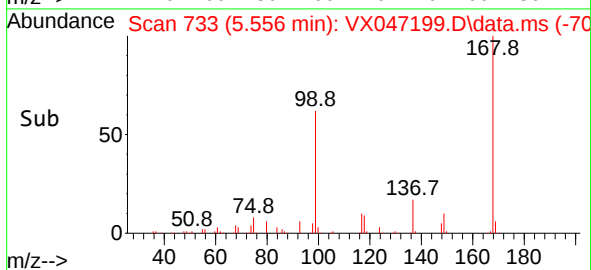
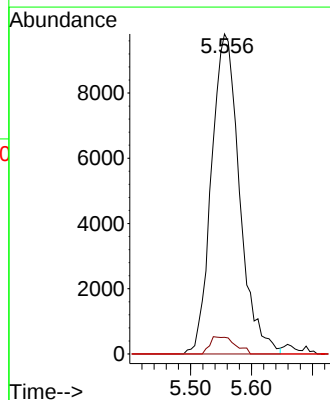
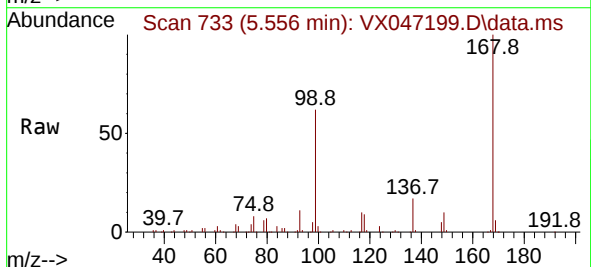
Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

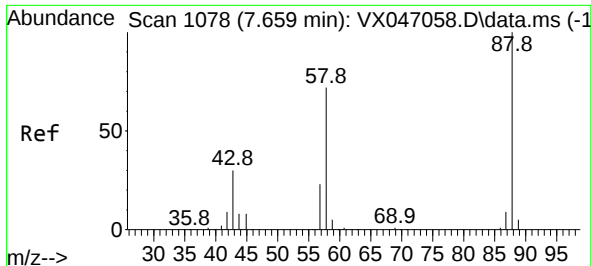
Tgt Ion: 75 Resp: 24244
 Ion Ratio Lower Upper
 75 100
 110 9.3 17.2 51.5#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.118 ug/l
 RT: 5.556 min Scan# 733
 Delta R.T. -0.134 min
 Lab File: VX047199.D
 Acq: 31 Jul 2025 13:52

Tgt Ion: 117 Resp: 31402
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.6 115.0#
 121 0.0 24.4 36.6#





#49

1,4-Dioxane

Concen: 0.567 ug/l

RT: 7.708 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX047199.D

Acq: 31 Jul 2025 13:52

Instrument :

MSVOA_X

ClientSampleId :

IBLK

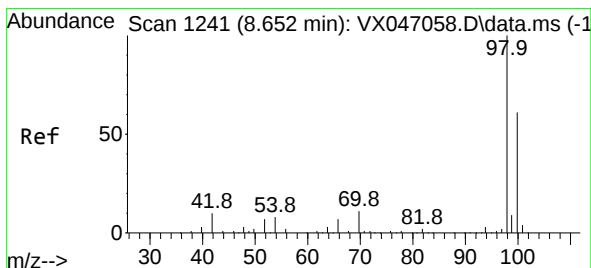
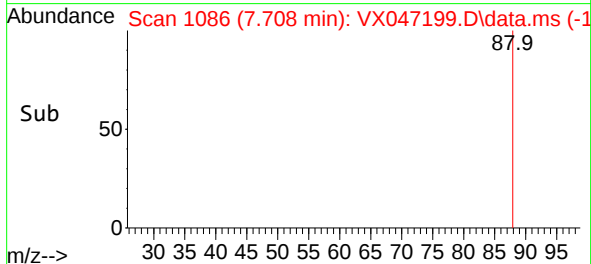
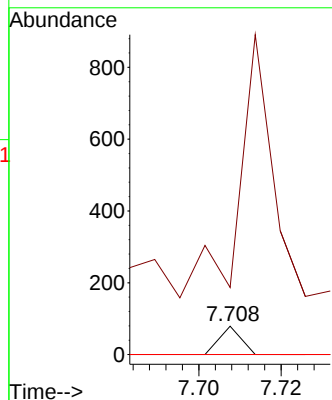
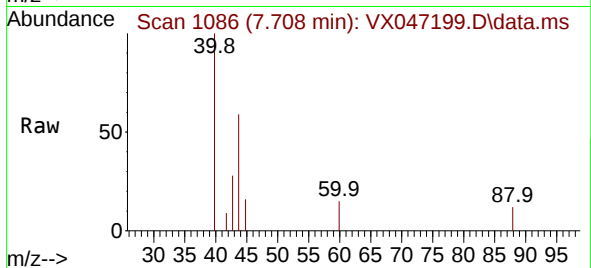
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 1734.5 33.6 50.4#

58 0.0 58.8 88.2#



#50

Toluene-d8

Concen: 54.105 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047199.D

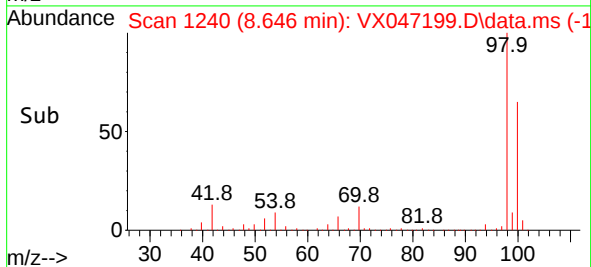
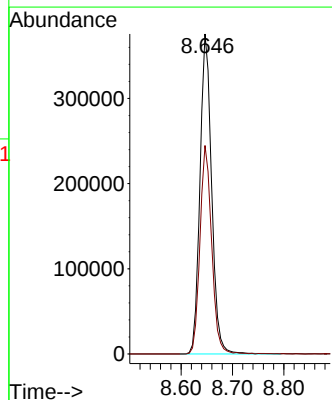
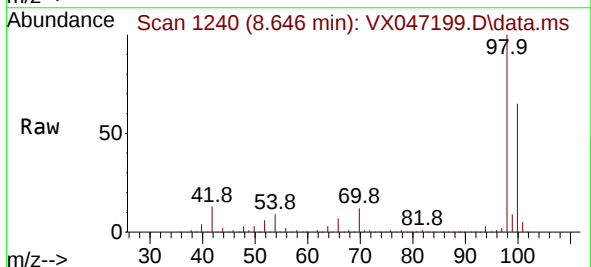
Acq: 31 Jul 2025 13:52

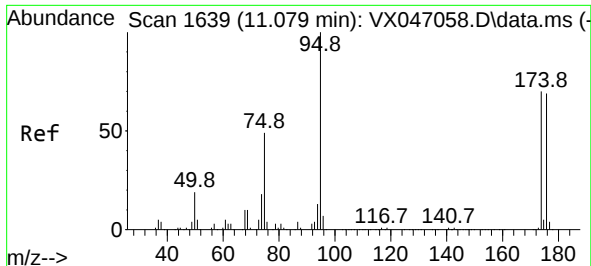
Tgt Ion: 98 Resp: 590951

Ion Ratio Lower Upper

98 100

100 65.4 53.3 79.9

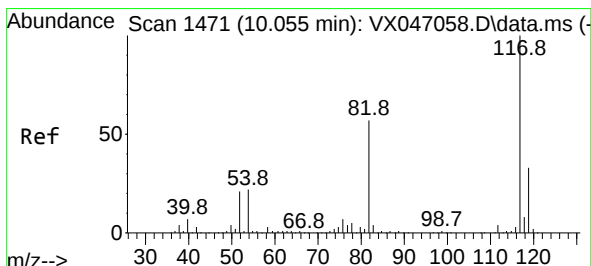
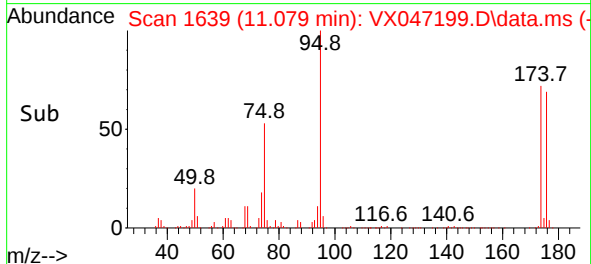
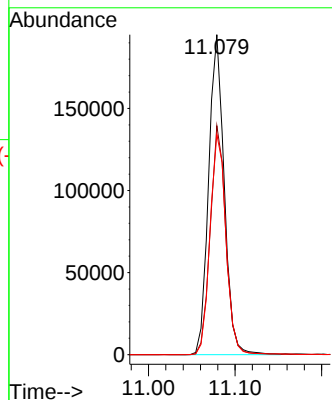
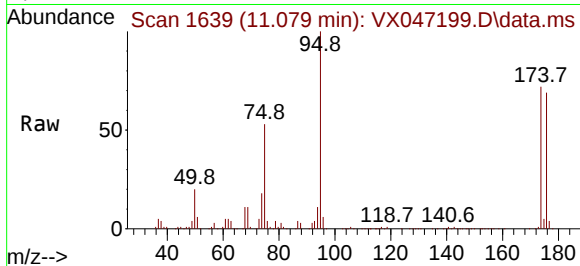




#62
4-Bromofluorobenzene
Concen: 51.720 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

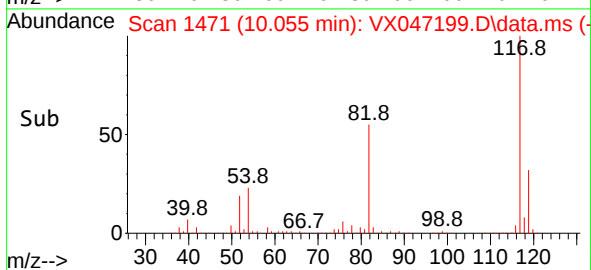
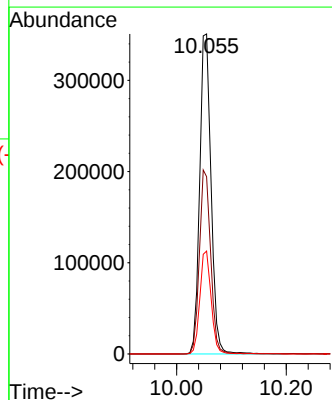
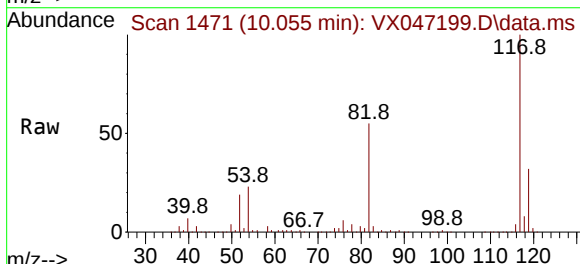
Instrument :
MSVOA_X
ClientSampleId :
IBLK

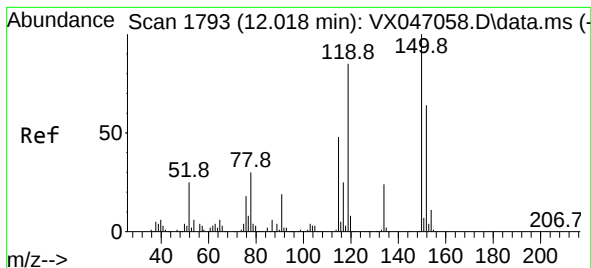
Tgt Ion: 95 Resp: 243437
Ion Ratio Lower Upper
95 100
174 71.8 0.0 144.6
176 70.8 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 117 Resp: 507758
Ion Ratio Lower Upper
117 100
82 55.4 45.4 68.2
119 32.2 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: VX047199.D

Acq: 31 Jul 2025 13:52

Instrument :

MSVOA_X

ClientSampleId :

IBLK

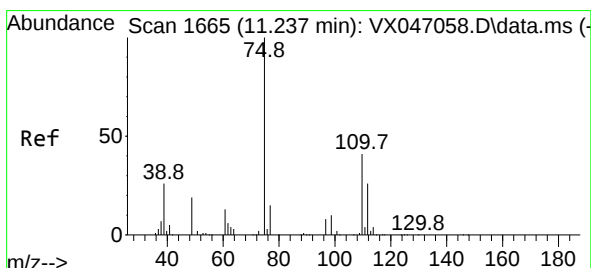
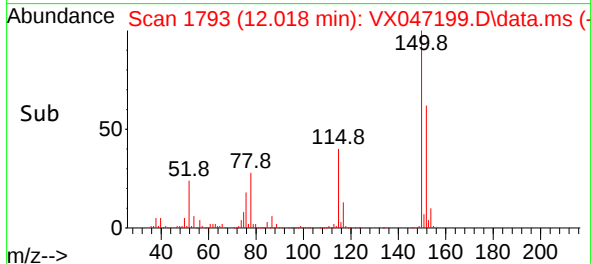
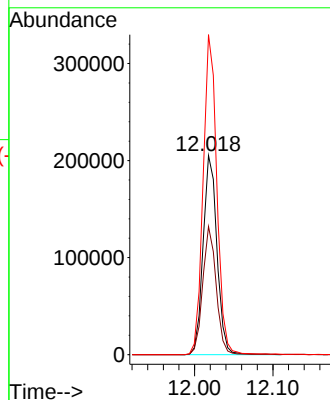
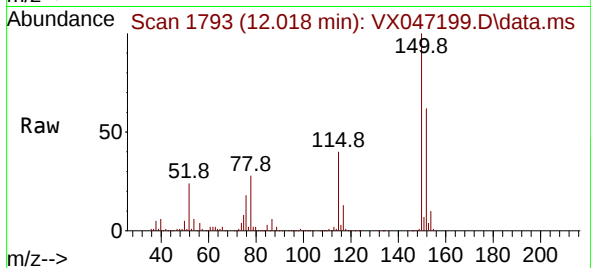
Tgt Ion:152 Resp: 252752

Ion Ratio Lower Upper

152 100

115 62.7 45.6 136.7

150 159.0 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 27.064 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047199.D

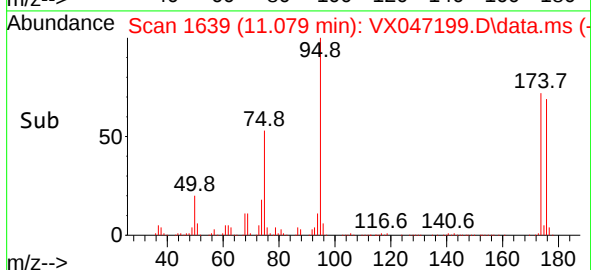
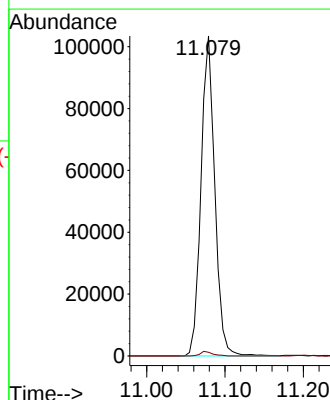
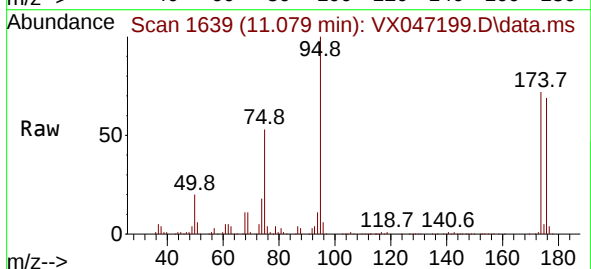
Acq: 31 Jul 2025 13:52

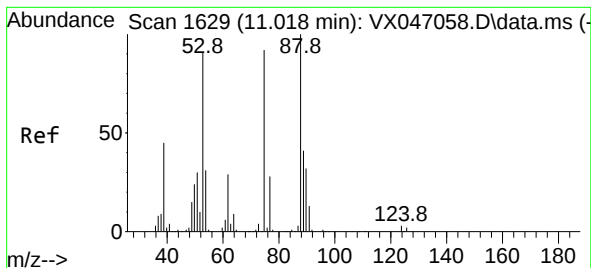
Tgt Ion: 75 Resp: 126616

Ion Ratio Lower Upper

75 100

77 1.3 21.6 65.0#

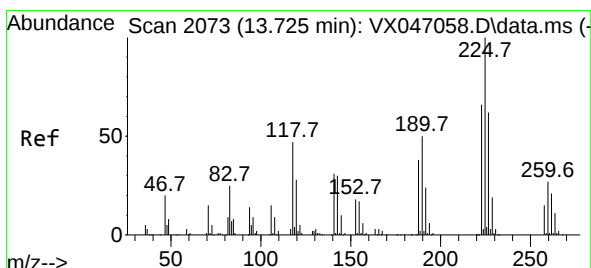
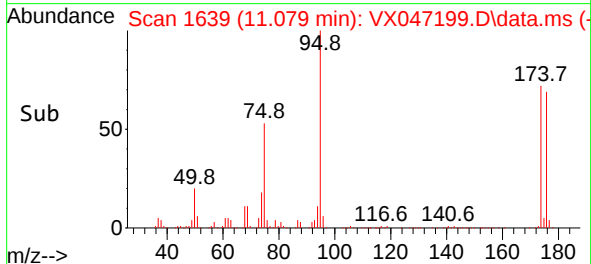
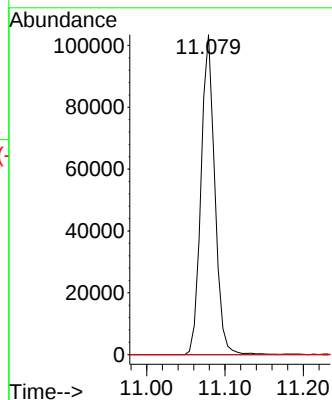
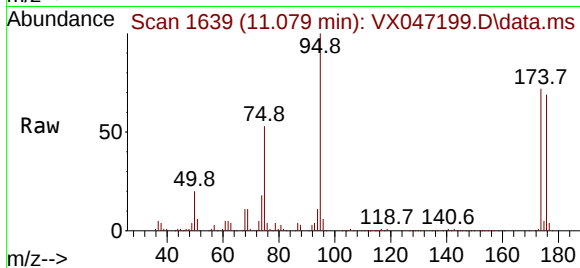




#81
trans-1,4-Dichloro-2-butene
Concen: 69.729 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Instrument :
MSVOA_X
ClientSampleId :
IBLK

Tgt Ion: 75 Resp: 126616
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#



#94
Hexachlorobutadiene
Concen: 0.742 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047199.D
Acq: 31 Jul 2025 13:52

Tgt Ion: 225 Resp: 1448
Ion Ratio Lower Upper
225 100
223 66.9 31.6 95.0
227 74.0 32.9 98.6

