

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082925\
 Data File : VX047563.D
 Acq On : 29 Aug 2025 12:21
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Quant Time: Aug 29 23:53:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X082825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 29 02:31:18 2025
 Response via : Initial Calibration

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

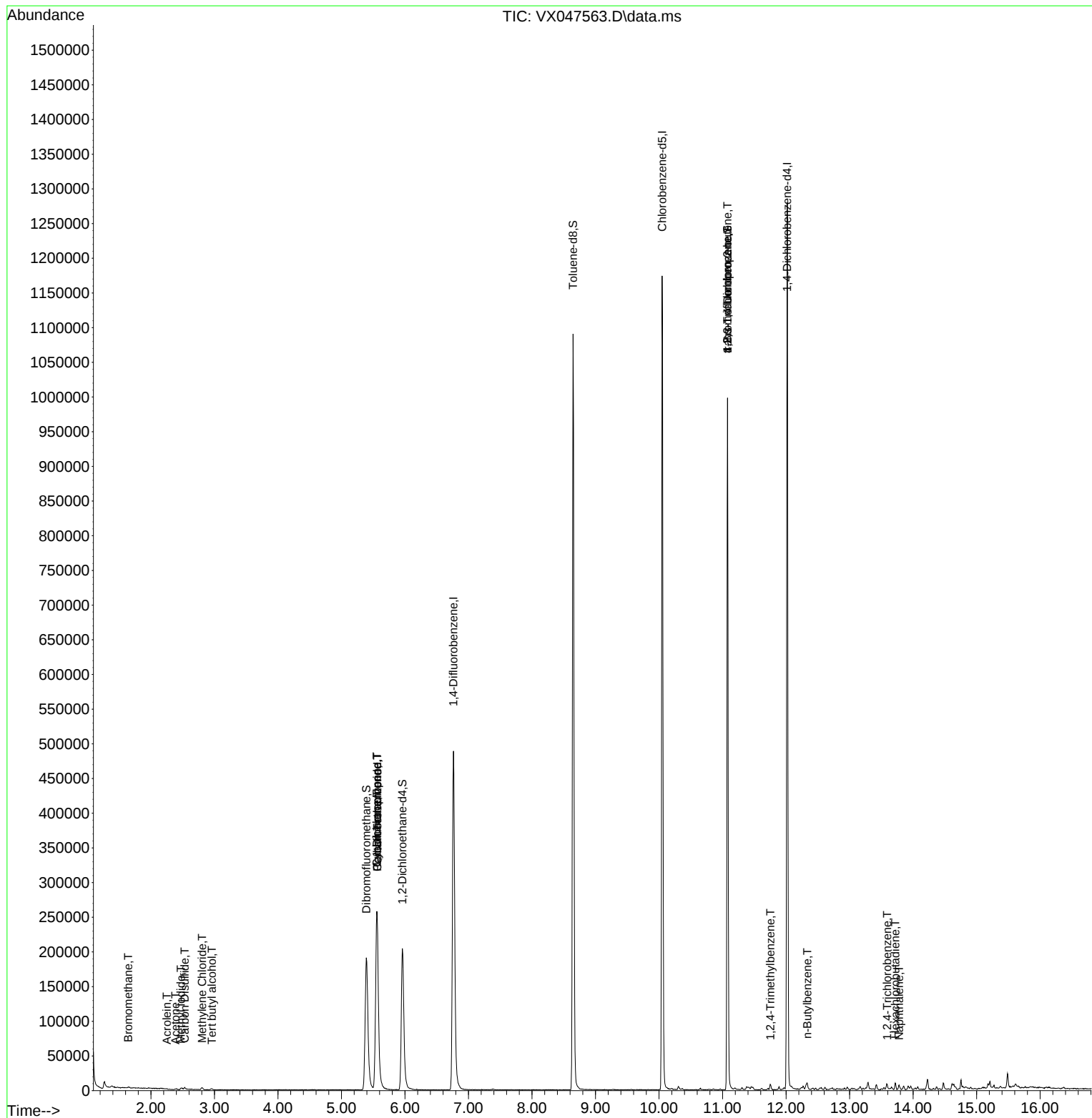
Internal Standards						
1) Pentafluorobenzene	5.562	168	262250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	527871	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	522187	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	253975	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	212146	52.678	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	105.360%
35) Dibromofluoromethane	5.391	113	183485	50.645	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.280%
50) Toluene-d8	8.647	98	646419	50.903	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	101.800%
62) 4-Bromofluorobenzene	11.079	95	265971	55.750	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	111.500%
Target Compounds						
						Qvalue
5) Bromomethane	1.642	94	1069	0.670	ug/l #	65
10) Methyl Iodide	2.471	142	3658	0.708	ug/l #	72
11) Tert butyl alcohol	2.959	59	159	0.430	ug/l #	73
13) Acrolein	2.252	56	186	0.251	ug/l #	78
16) Acetone	2.386	43	1859	1.166	ug/l #	87
17) Carbon Disulfide	2.532	76	2926	0.297	ug/l #	82
20) Methylene Chloride	2.806	84	1535	0.378	ug/l #	85
31) Cyclohexane	5.556	56	5672	1.002	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	21728	4.214	ug/l #	50
38) Carbon Tetrachloride	5.562	117	28246	4.937	ug/l #	18
76) 1,2,3-Trichloropropane	11.079	75	137081	30.242	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	137081	106.648	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.756	105	4083	0.262	ug/l	94
89) n-Butylbenzene	12.335	91	4227	0.295	ug/l	84
93) 1,2,4-Trichlorobenzene	13.591	180	1145	0.215	ug/l #	87
94) Hexachlorobutadiene	13.719	225	1311	0.708	ug/l	97
95) Naphthalene	13.780	128	5479	0.352	ug/l	97

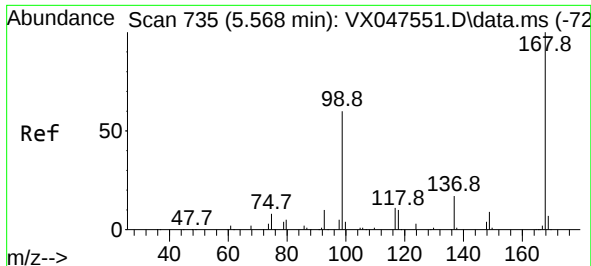
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

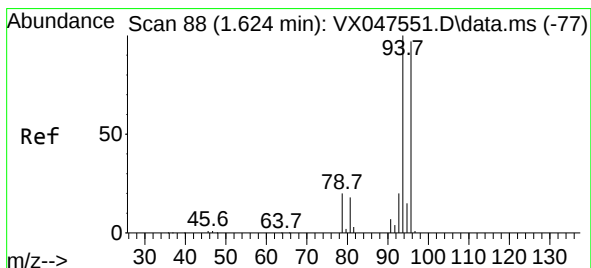
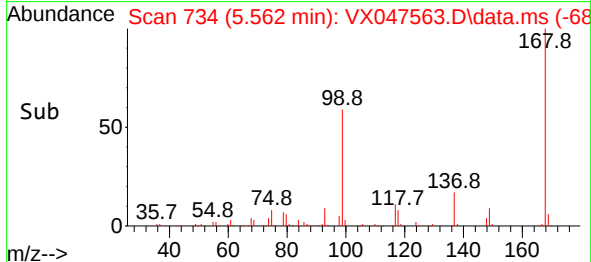
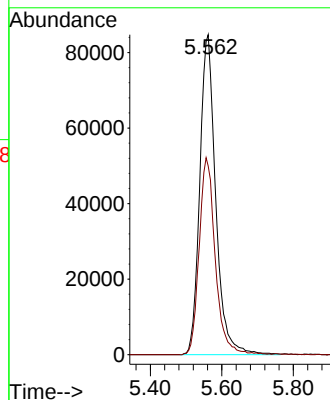
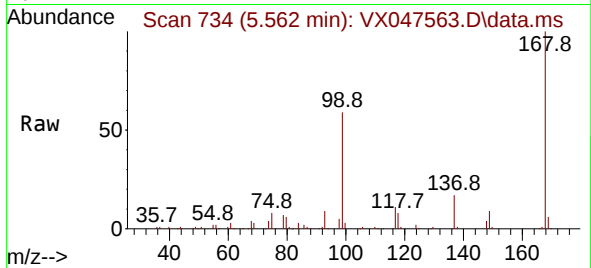




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

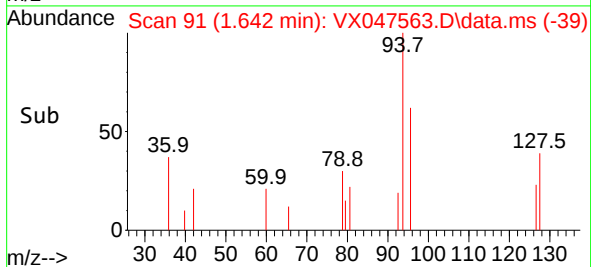
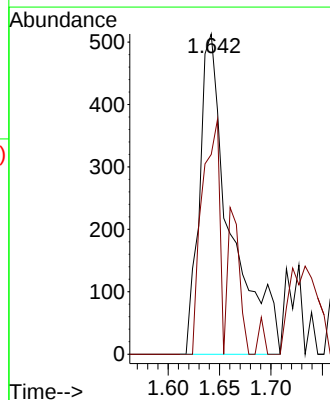
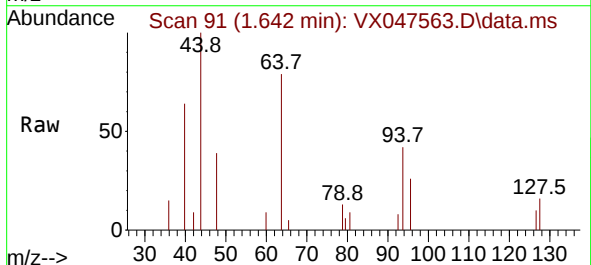
Instrument : MSVOA_X
ClientSampleId : IBLK

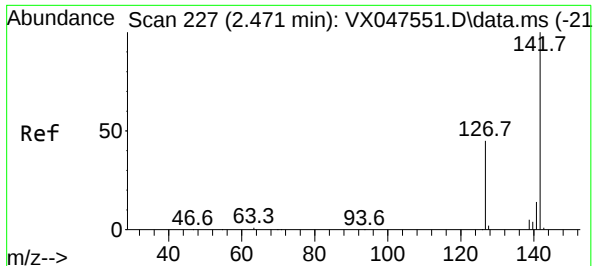
Tgt Ion:168 Resp: 262250
Ion Ratio Lower Upper
168 100
99 59.0 48.9 73.3



#5
Bromomethane
Concen: 0.670 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.018 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion: 94 Resp: 1069
Ion Ratio Lower Upper
94 100
96 62.4 77.7 116.5#

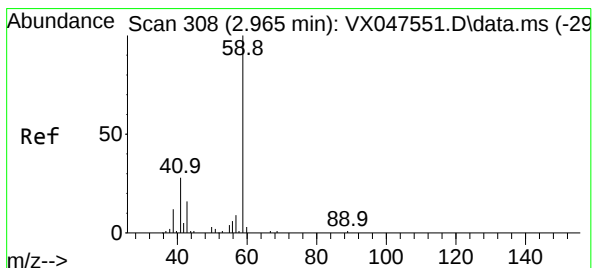
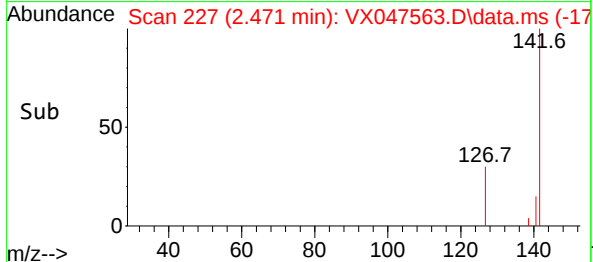
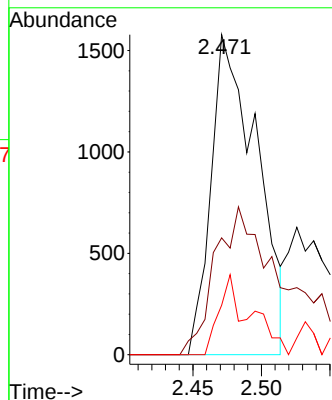
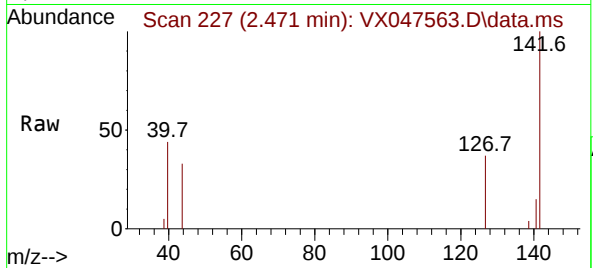




#10
Methyl Iodide
Concen: 0.708 ug/l
RT: 2.471 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

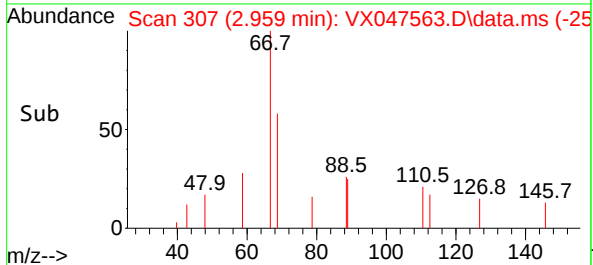
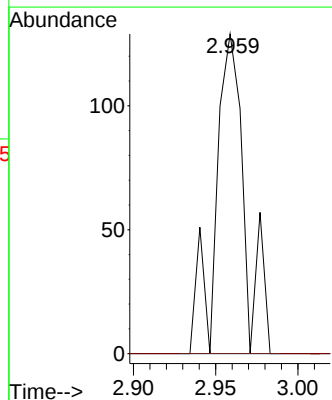
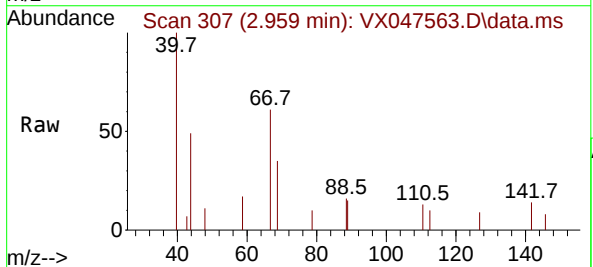
Instrument :
MSVOA_X
ClientSampleId :
IBLK

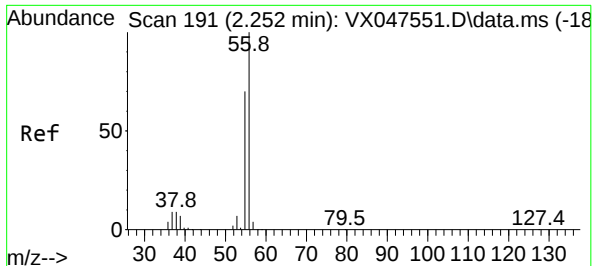
Tgt Ion:142 Resp: 3658
Ion Ratio Lower Upper
142 100
127 69.8 37.6 56.4#
141 11.2 10.6 16.0



#11
Tert butyl alcohol
Concen: 0.430 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion: 59 Resp: 159
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

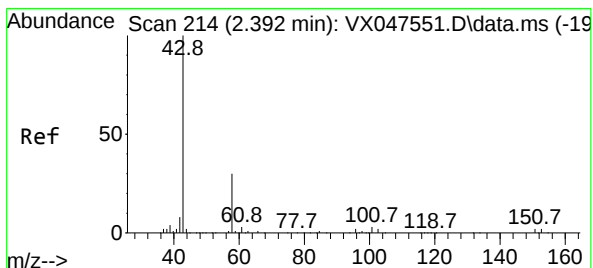
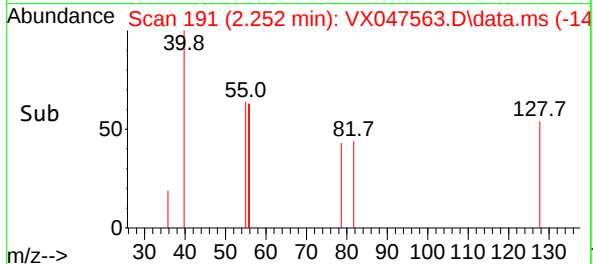
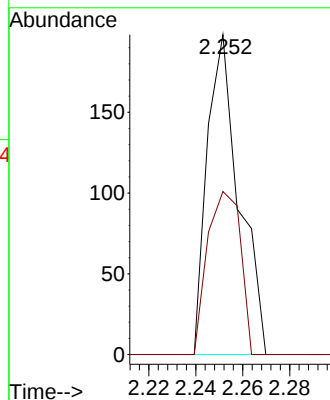
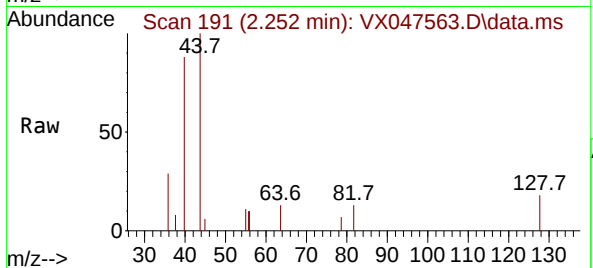




#13
Acrolein
Concen: 0.251 ug/l
RT: 2.252 min Scan# 191
Delta R.T. -0.000 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

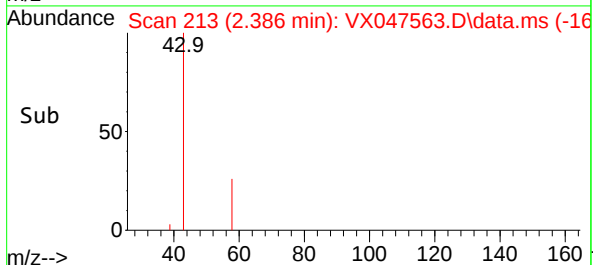
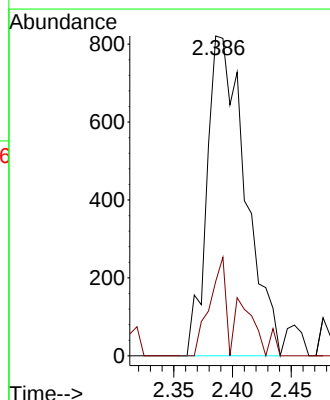
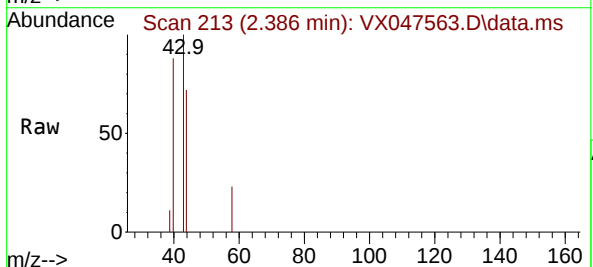
Instrument : MSVOA_X
ClientSampleId : IBLK

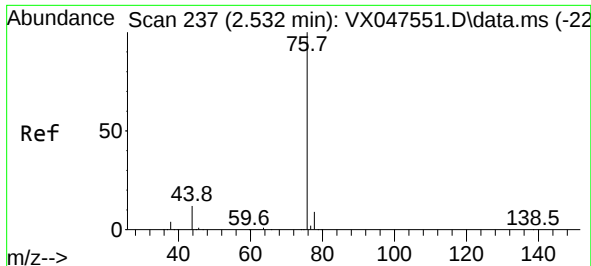
Tgt Ion: 56 Resp: 186
Ion Ratio Lower Upper
56 100
55 52.7 57.0 85.6#



#16
Acetone
Concen: 1.166 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion: 43 Resp: 1859
Ion Ratio Lower Upper
43 100
58 23.3 24.2 36.2#

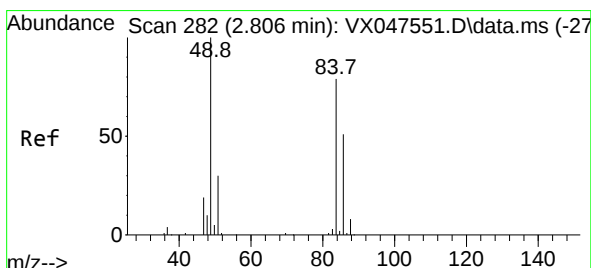
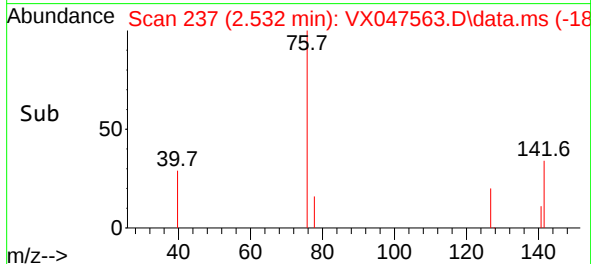
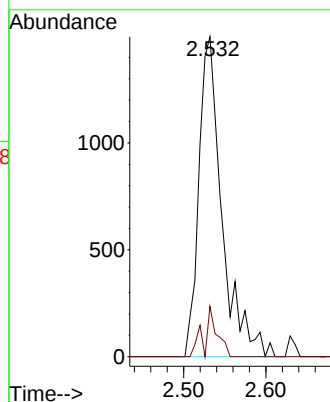
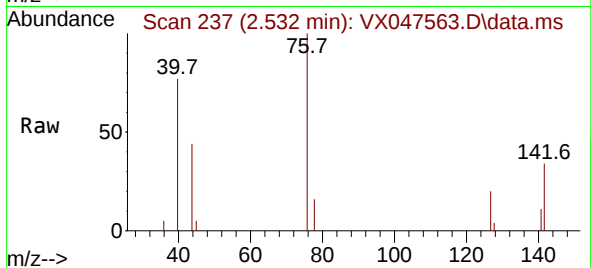




#17
Carbon Disulfide
Concen: 0.297 ug/l
RT: 2.532 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

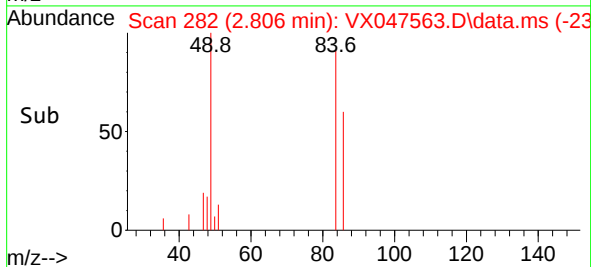
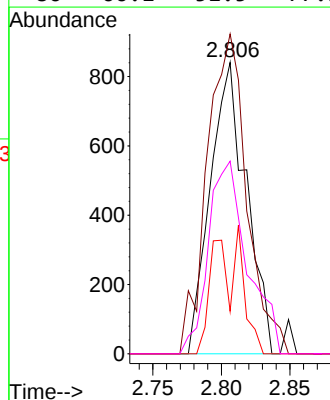
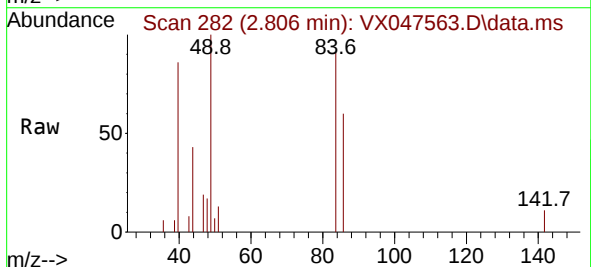
Instrument :
MSVOA_X
ClientSampleId :
IBLK

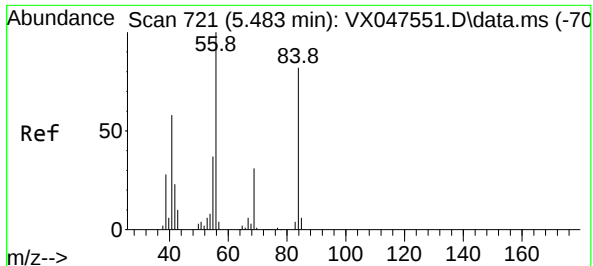
Tgt Ion: 76 Resp: 2926
Ion Ratio Lower Upper
76 100
78 15.7 7.4 11.0#



#20
Methylene Chloride
Concen: 0.378 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion: 84 Resp: 1535
Ion Ratio Lower Upper
84 100
49 109.8 101.4 152.2
51 14.6 30.6 46.0#
86 66.1 51.5 77.3

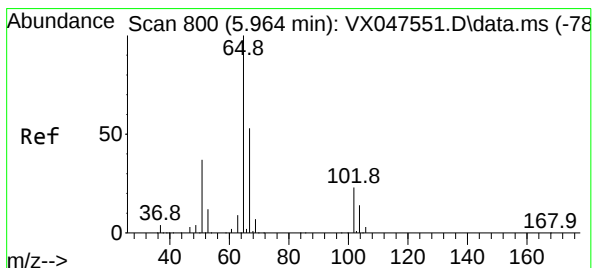
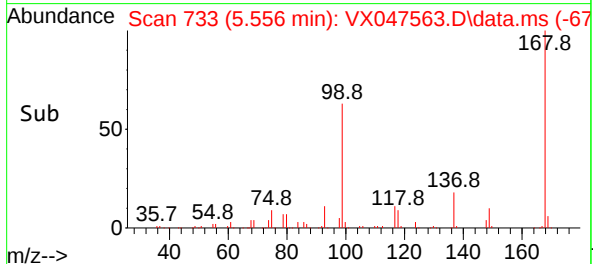
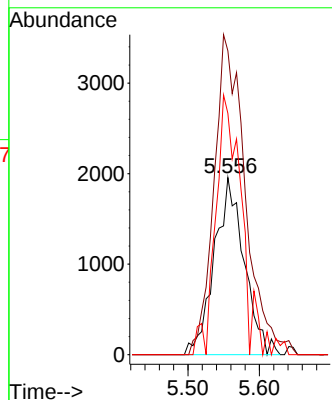
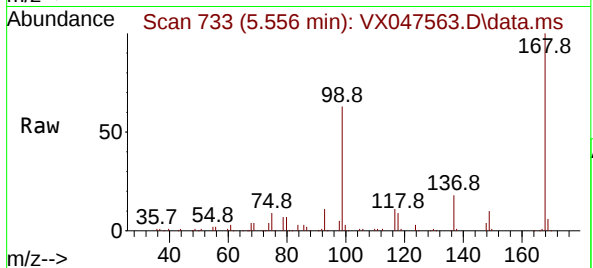




#31
Cyclohexane
Concen: 1.002 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.073 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

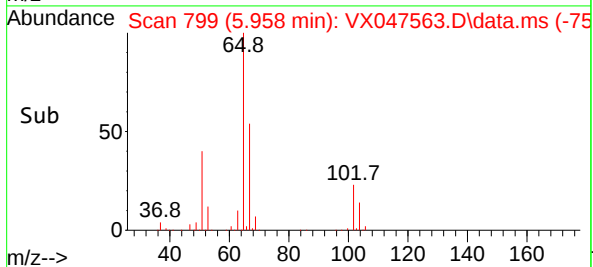
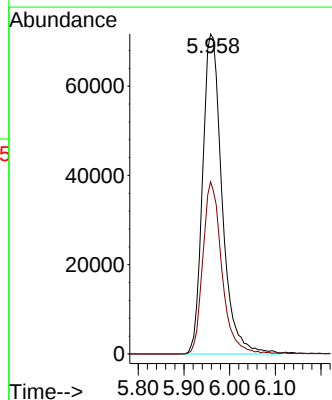
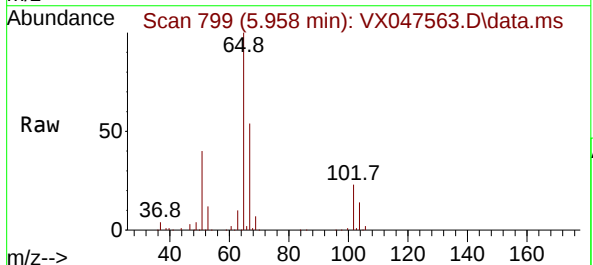
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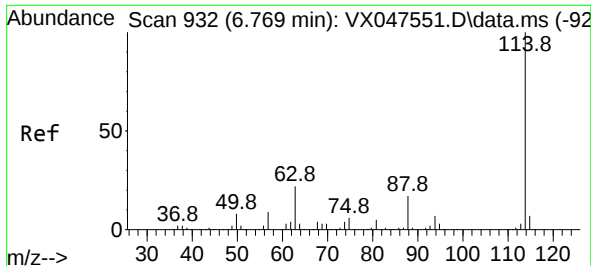
Tgt Ion: 56 Resp: 5672
Ion Ratio Lower Upper
56 100
69 171.6 24.2 36.2#
84 136.3 65.5 98.3#



#33
1,2-Dichloroethane-d4
Concen: 52.678 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion: 65 Resp: 212146
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.8

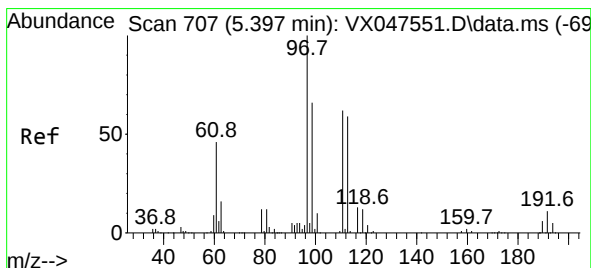
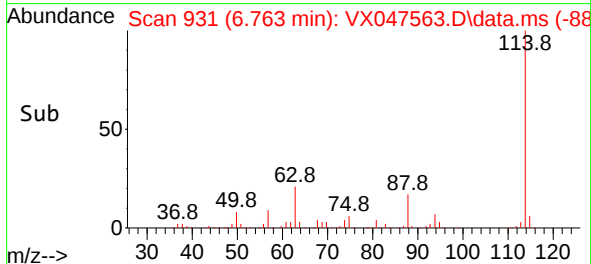
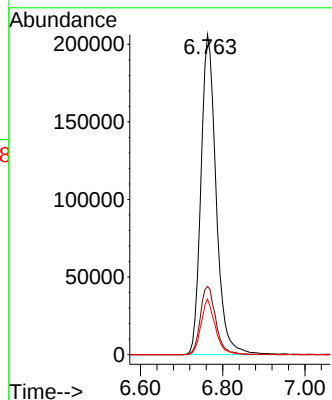
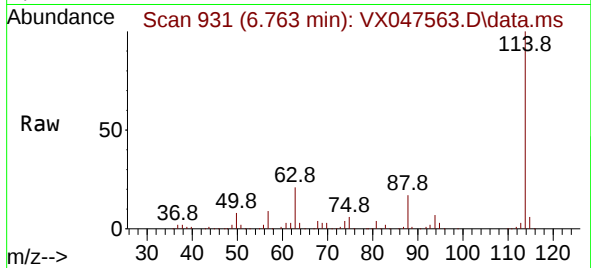




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

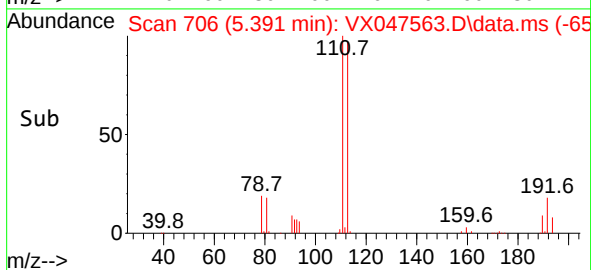
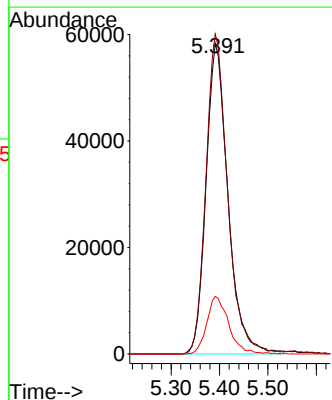
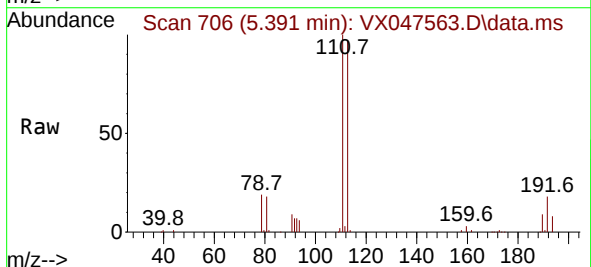
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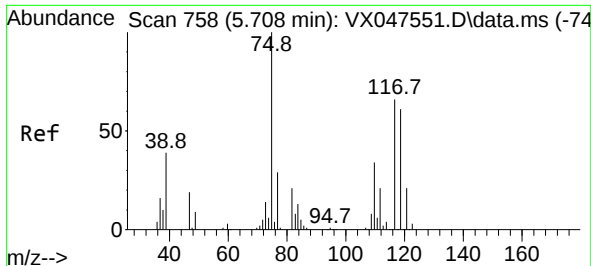
Tgt Ion:114 Resp: 527871
Ion Ratio Lower Upper
114 100
63 21.3 0.0 43.6
88 17.4 0.0 33.2



#35
Dibromofluoromethane
Concen: 50.645 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion:113 Resp: 183485
Ion Ratio Lower Upper
113 100
111 102.5 81.2 121.8
192 18.6 14.2 21.4

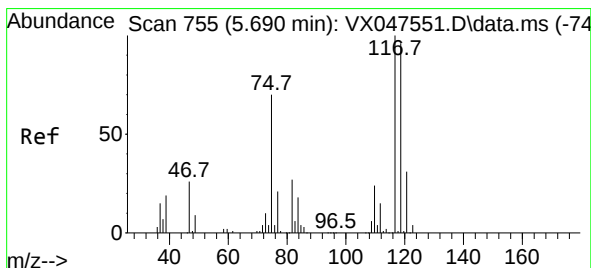
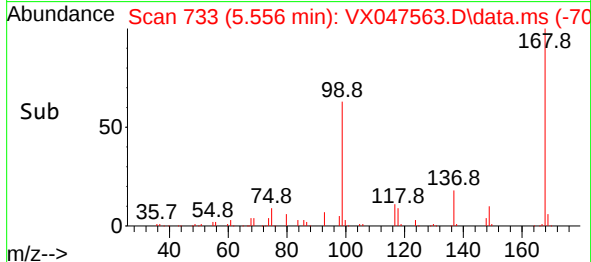
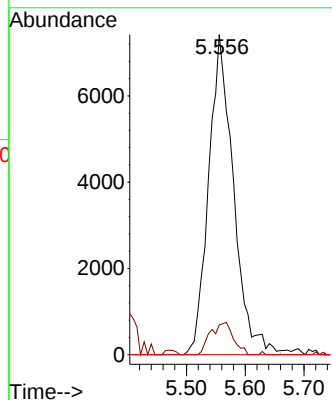
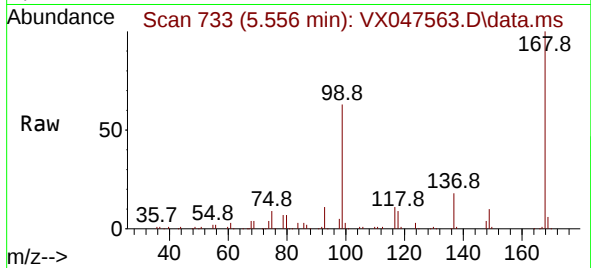




#36
1,1-Dichloropropene
Concen: 4.214 ug/l
RT: 5.556 min Scan# 713
Delta R.T. -0.153 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

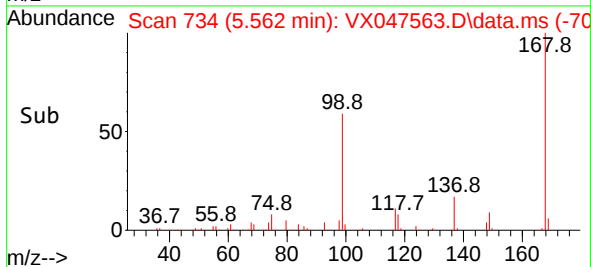
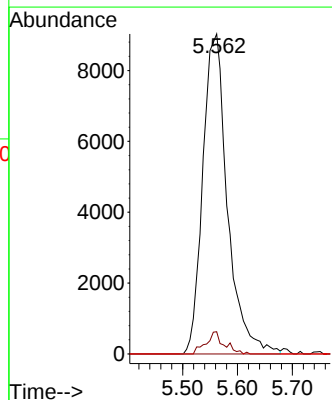
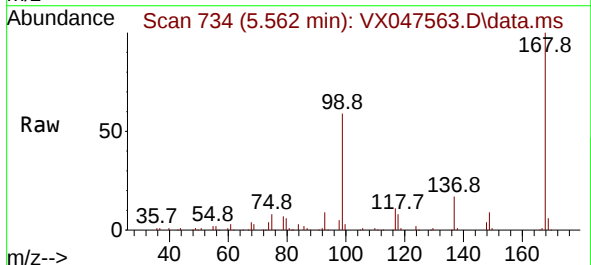
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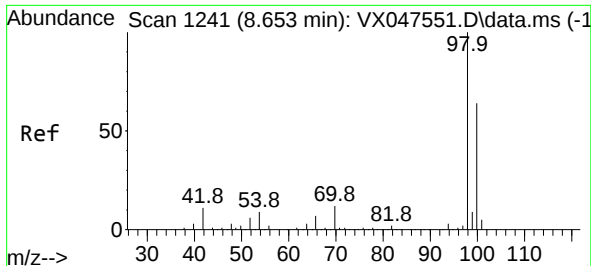
Tgt Ion: 75 Resp: 21728
Ion Ratio Lower Upper
75 100
110 9.3 17.1 51.3#
77 0.0 25.0 37.6#



#38
Carbon Tetrachloride
Concen: 4.937 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.128 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion: 117 Resp: 28246
Ion Ratio Lower Upper
117 100
119 7.0 76.4 114.6#
121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 50.903 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

Instrument :

MSVOA_X

ClientSampleId :

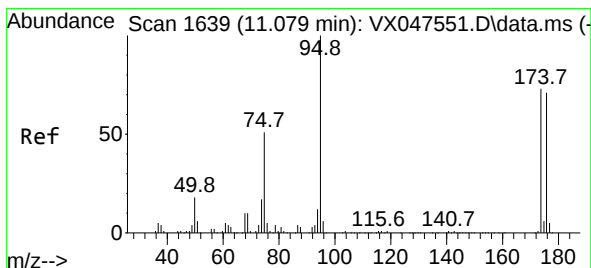
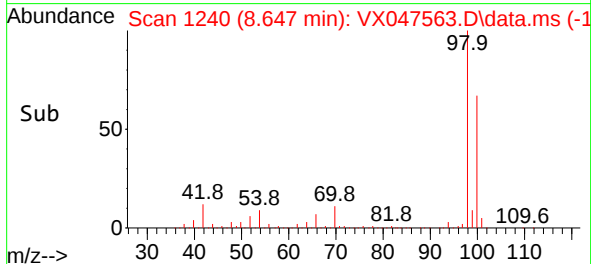
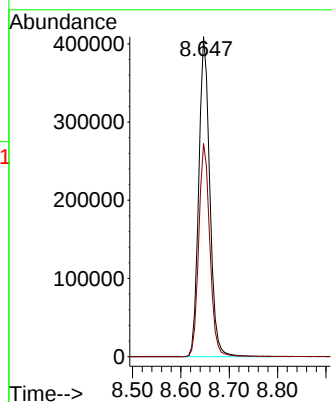
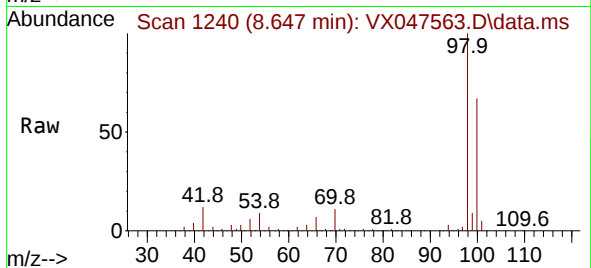
IBLK

Tgt Ion: 98 Resp: 646419

Ion Ratio Lower Upper

98 100

100 67.0 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 55.750 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

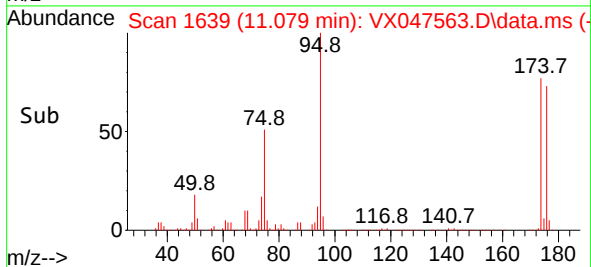
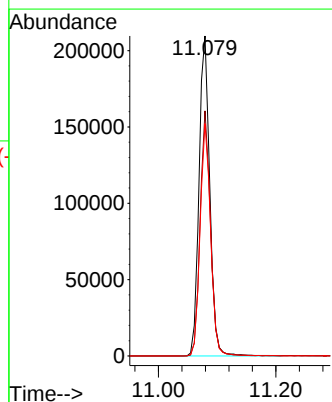
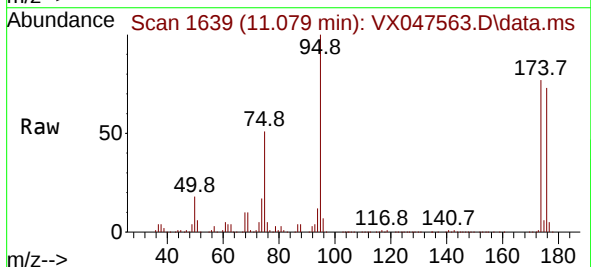
Tgt Ion: 95 Resp: 265971

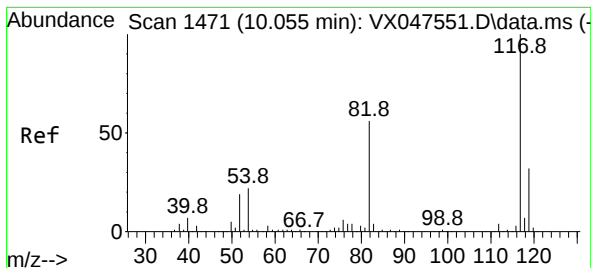
Ion Ratio Lower Upper

95 100

174 74.2 0.0 145.2

176 71.2 0.0 140.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1471

Delta R.T. -0.006 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

Instrument :

MSVOA_X

ClientSampleId :

IBLK

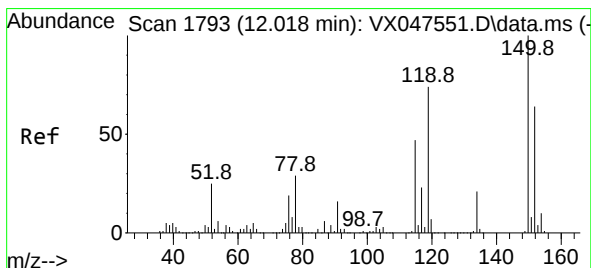
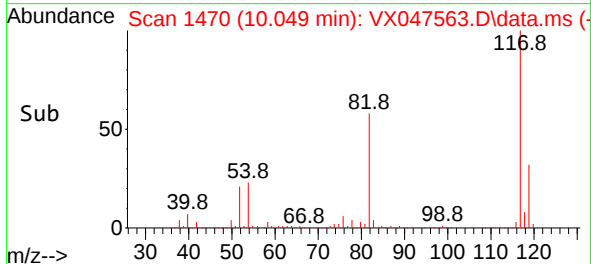
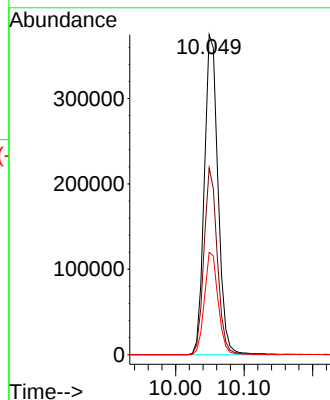
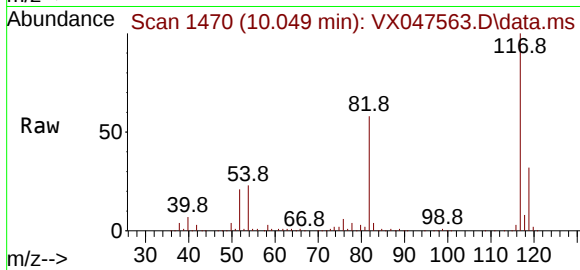
Tgt Ion:117 Resp: 522187

Ion Ratio Lower Upper

117 100

82 58.4 44.6 66.8

119 32.0 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

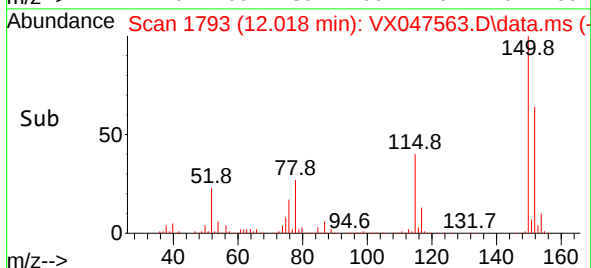
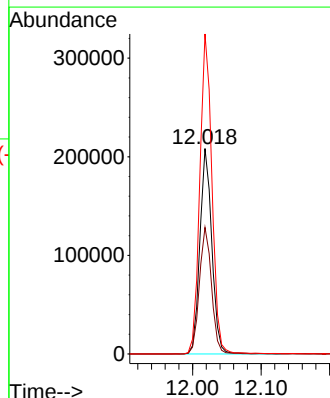
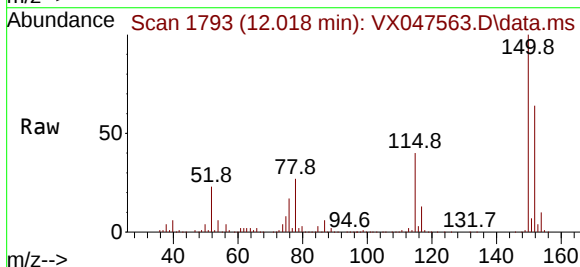
Tgt Ion:152 Resp: 253975

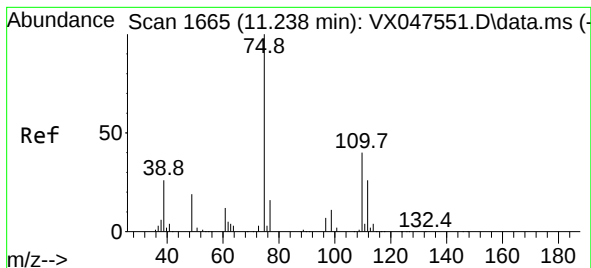
Ion Ratio Lower Upper

152 100

115 62.4 42.9 128.5

150 157.3 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 30.242 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

Instrument :

MSVOA_X

ClientSampleId :

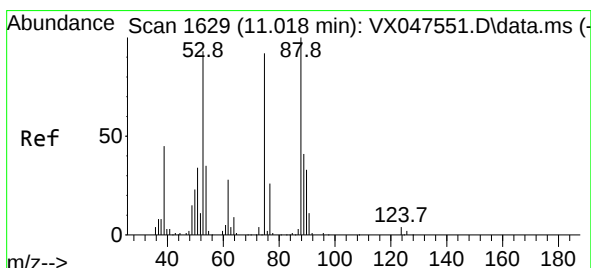
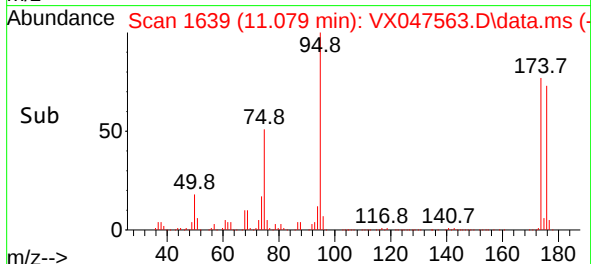
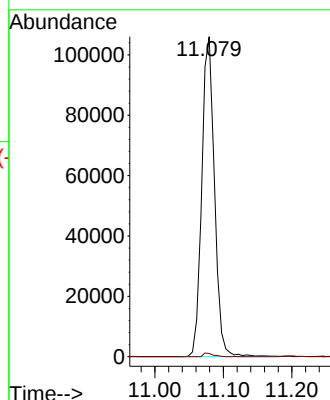
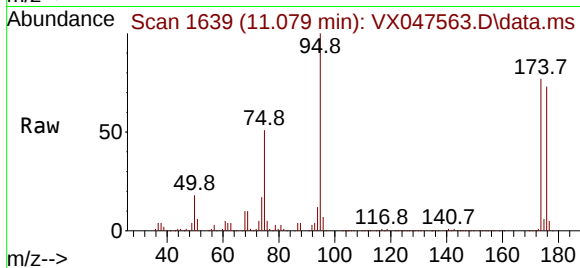
IBLK

Tgt Ion: 75 Resp: 137081

Ion Ratio Lower Upper

75 100

77 0.9 19.7 59.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 106.648 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

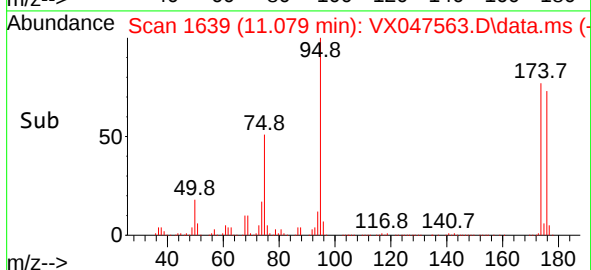
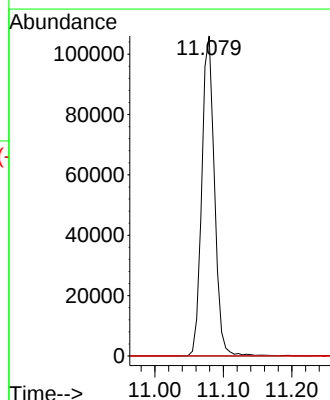
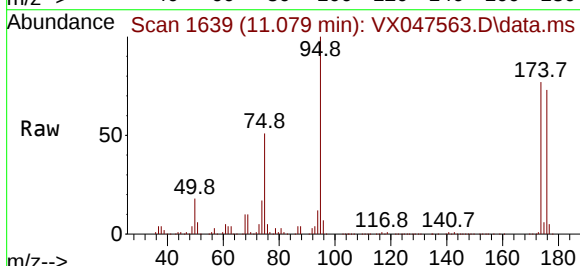
Tgt Ion: 75 Resp: 137081

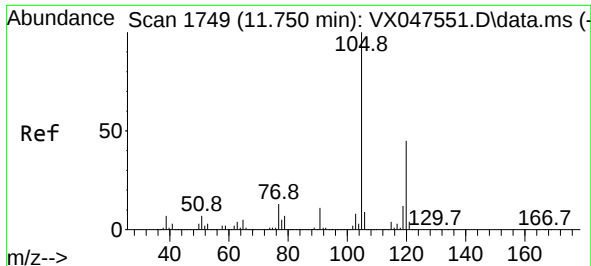
Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 36.4 54.6#

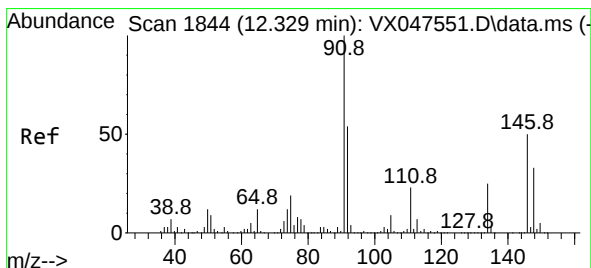
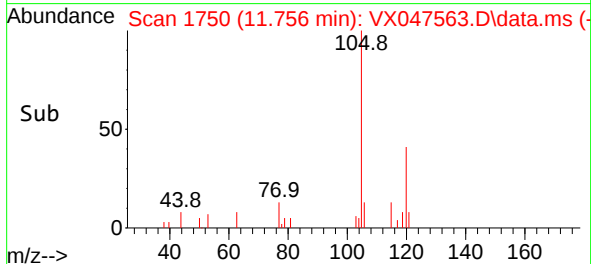
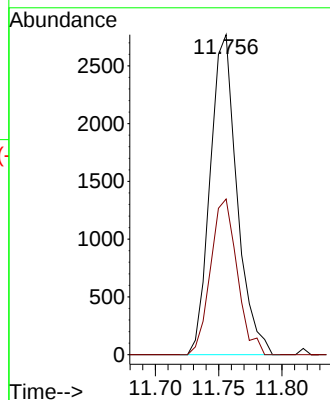
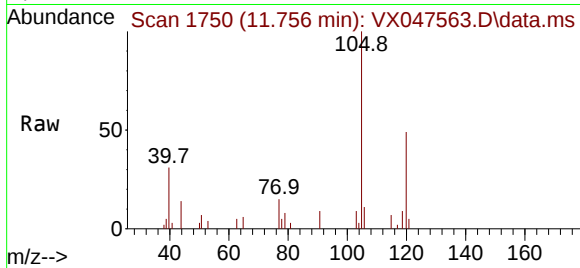




#84
1,2,4-Trimethylbenzene
Concen: 0.262 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

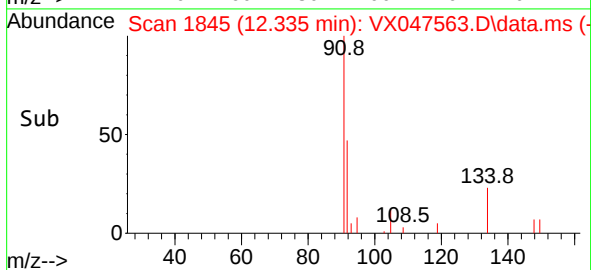
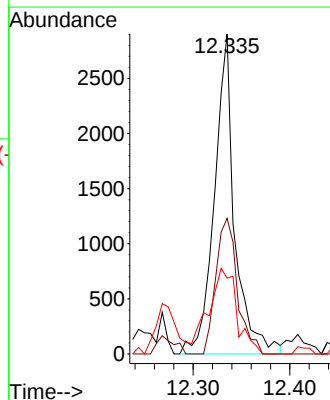
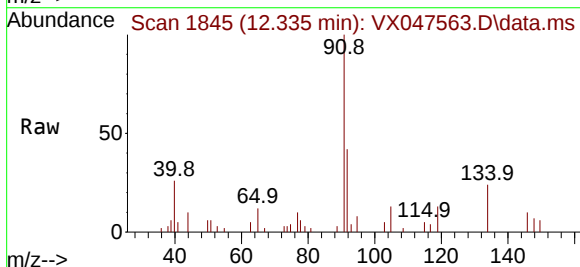
Instrument :
MSVOA_X
ClientSampleId :
IBLK

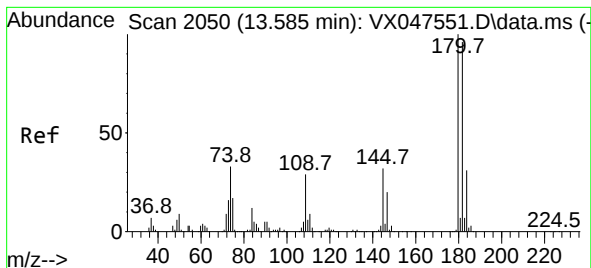
Tgt Ion:105 Resp: 4083
Ion Ratio Lower Upper
105 100
120 48.3 22.3 66.8



#89
n-Butylbenzene
Concen: 0.295 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX047563.D
Acq: 29 Aug 2025 12:21

Tgt Ion: 91 Resp: 4227
Ion Ratio Lower Upper
91 100
92 45.0 27.0 81.0
134 37.1 12.6 37.6





#93

1,2,4-Trichlorobenzene

Concen: 0.215 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

Instrument :

MSVOA_X

ClientSampleId :

IBLK

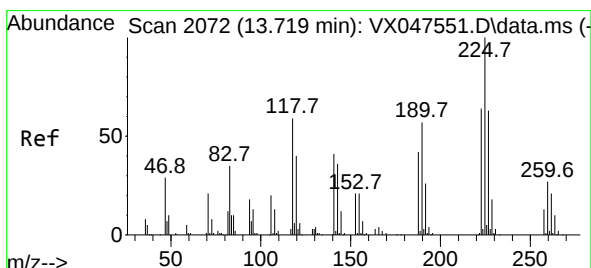
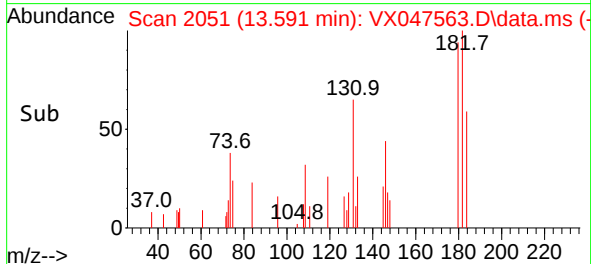
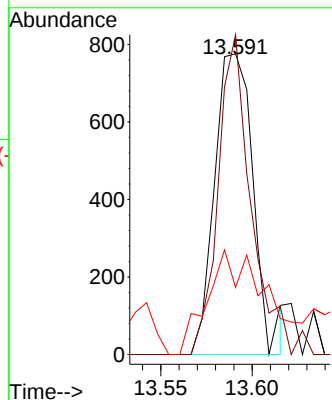
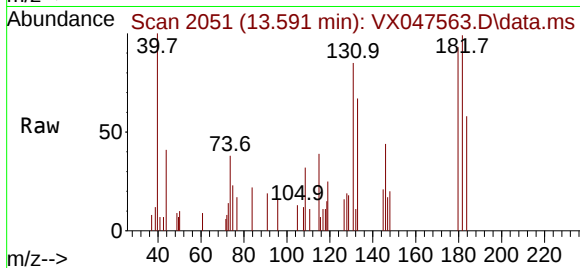
Tgt Ion:180 Resp: 1145

Ion Ratio Lower Upper

180 100

182 91.4 47.7 143.1

145 53.4 16.3 48.8#



#94

Hexachlorobutadiene

Concen: 0.708 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.000 min

Lab File: VX047563.D

Acq: 29 Aug 2025 12:21

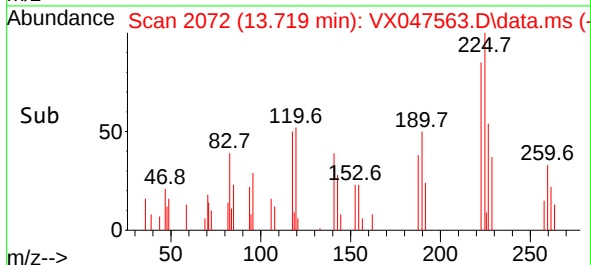
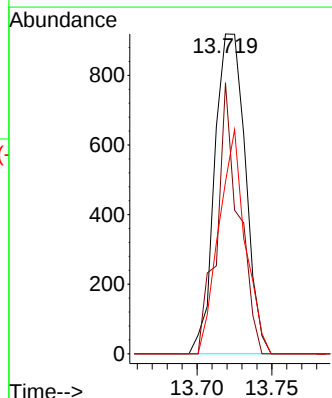
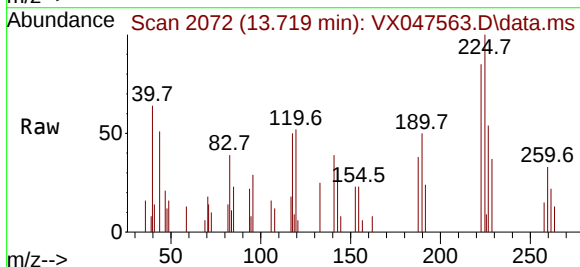
Tgt Ion:225 Resp: 1311

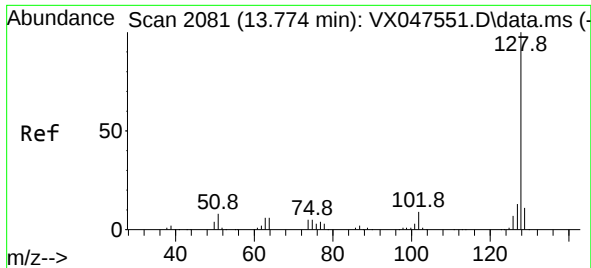
Ion Ratio Lower Upper

225 100

223 60.4 31.1 93.5

227 60.5 31.8 95.3





#95

Naphthalene

Concen: 0.352 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX047563.D

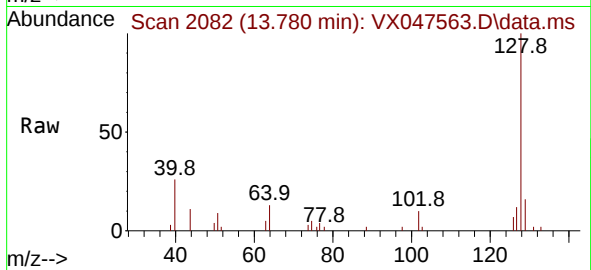
Acq: 29 Aug 2025 12:21

Instrument :

MSVOA_X

ClientSampleId :

IBLK



Tgt Ion:128 Resp: 5479

Ion Ratio Lower Upper

128 100

127 11.5 10.0 15.0

129 12.2 8.7 13.1

