

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111225\
 Data File : VX048568.D
 Acq On : 12 Nov 2025 11:18
 Operator : JC/MD
 Sample : Q3603-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORT-HILLS-DW

Quant Time: Nov 14 00:26:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

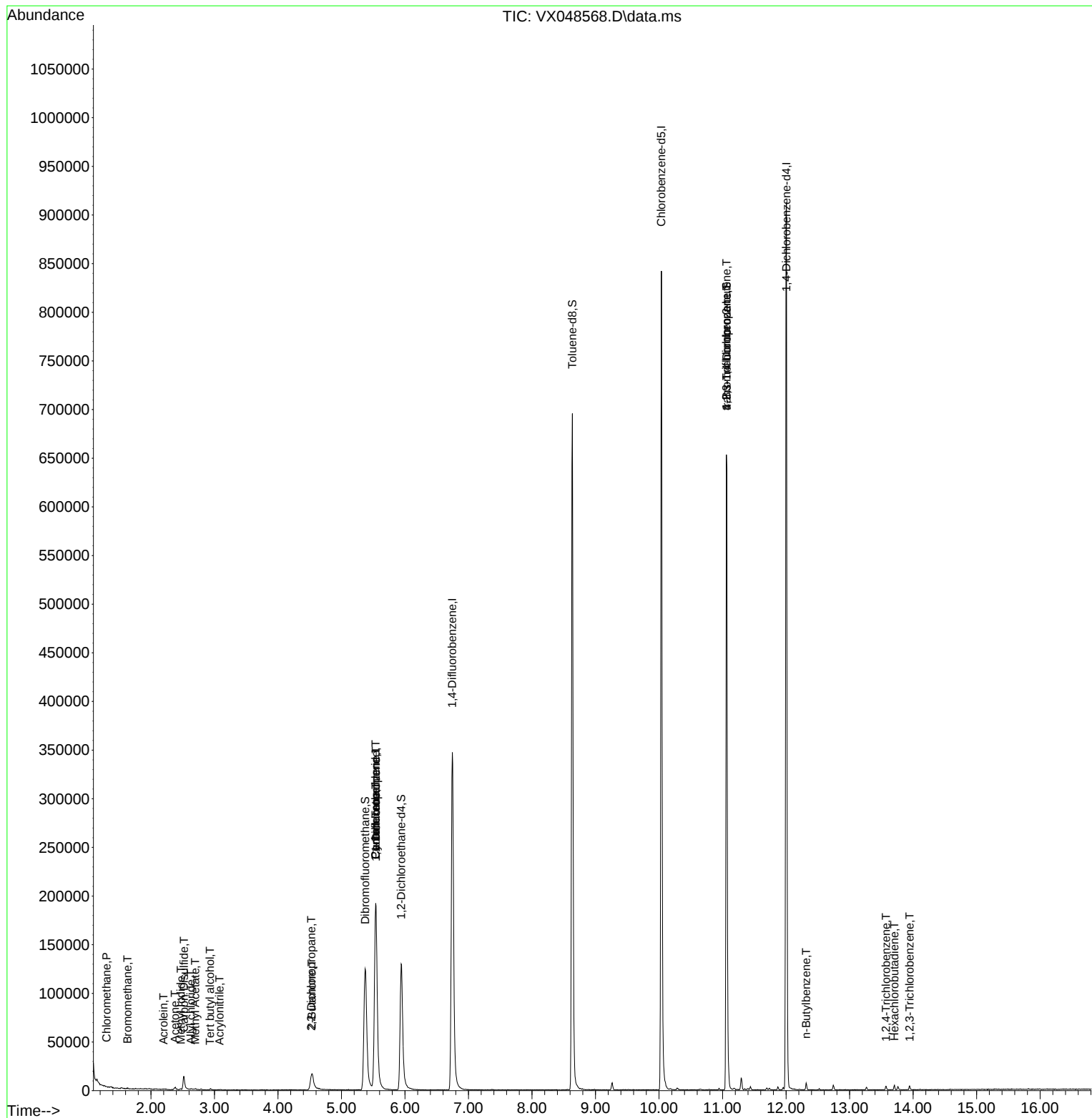
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	205876	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	402551	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	408643	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	211749	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	141933	49.476	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	98.960%
35) Dibromofluoromethane	5.373	113	128790	42.271	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	84.540%
50) Toluene-d8	8.635	98	449688	47.324	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.640%
62) 4-Bromofluorobenzene	11.061	95	192760	54.433	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	108.860%
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	499	0.226	ug/l #	87
5) Bromomethane	1.630	94	435	0.275	ug/l	97
10) Methyl Iodide	2.471	142	1054	0.310	ug/l #	95
11) Tert butyl alcohol	2.928	59	128	0.235	ug/l #	71
13) Acrolein	2.197	56	26	0.331	ug/l #	15
14) Allyl chloride	2.630	41	1298	0.291	ug/l #	40
15) Acrylonitrile	3.081	53	332	0.209	ug/l #	47
16) Acetone	2.380	43	3738	2.753	ug/l	98
17) Carbon Disulfide	2.520	76	1668	0.247	ug/l #	77
18) Methyl Acetate	2.697	43	1118	0.300	ug/l #	78
25) 2-Butanone	4.532	43	1333	0.664	ug/l #	48
26) 2,2-Dichloropropane	4.526	77	1458	0.364	ug/l #	52
31) Cyclohexane	5.538	56	3663	0.951	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	15904	3.898	ug/l #	49
38) Carbon Tetrachloride	5.538	117	20875	4.495	ug/l #	17
76) 1,2,3-Trichloropropane	11.061	75	93350	18.299	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	93350	52.341	ug/l #	12
89) n-Butylbenzene	12.317	91	2583	0.204	ug/l	93
93) 1,2,4-Trichlorobenzene	13.573	180	1465	0.309	ug/l	86
94) Hexachlorobutadiene	13.707	225	765	0.386	ug/l	98
96) 1,2,3-Trichlorobenzene	13.945	180	1172	0.266	ug/l	94

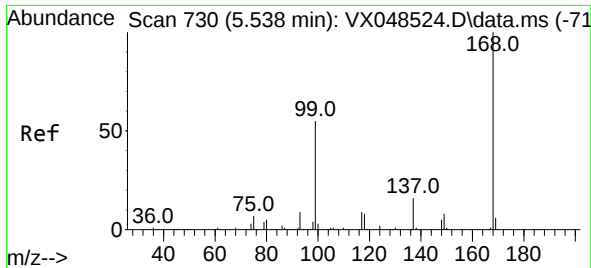
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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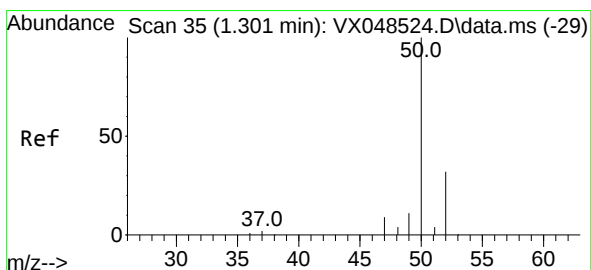
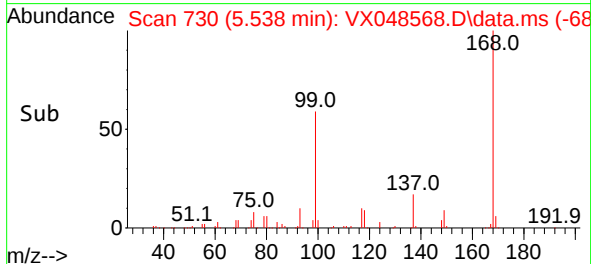
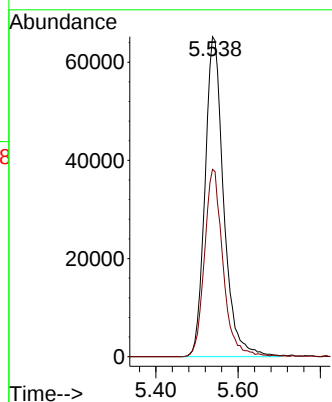
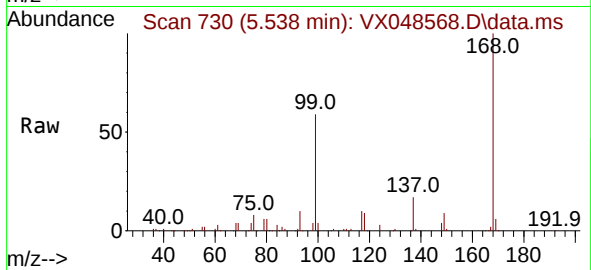




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

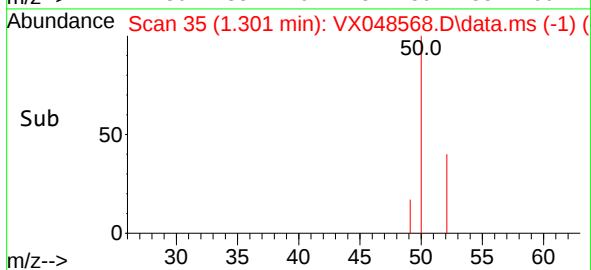
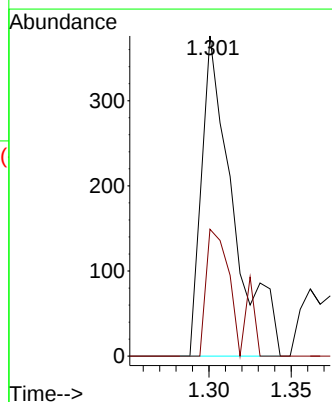
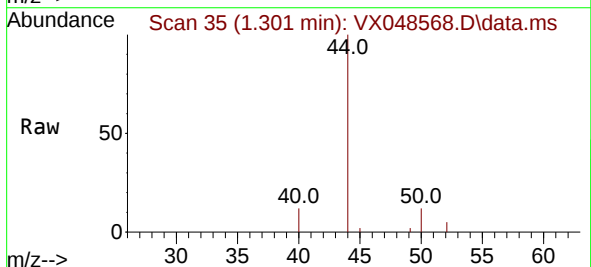
Instrument :
MSVOA_X
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SHORT-HILLS-DW

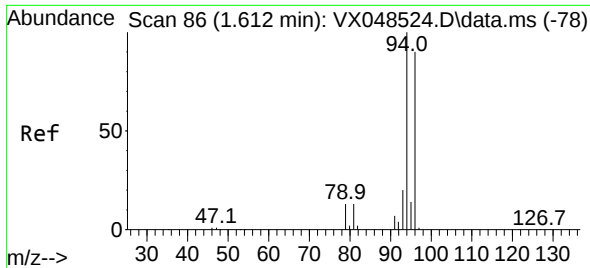
Tgt Ion:168 Resp: 205876
Ion Ratio Lower Upper
168 100
99 58.5 45.2 67.8



#3
Chloromethane
Concen: 0.226 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 50 Resp: 499
Ion Ratio Lower Upper
50 100
52 39.6 26.0 39.0#

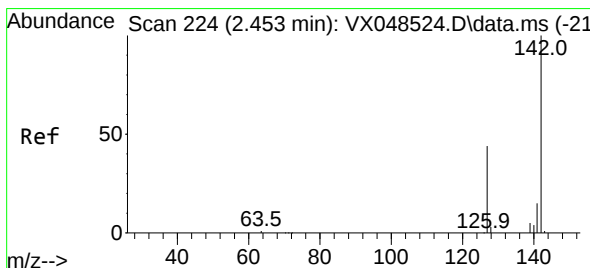
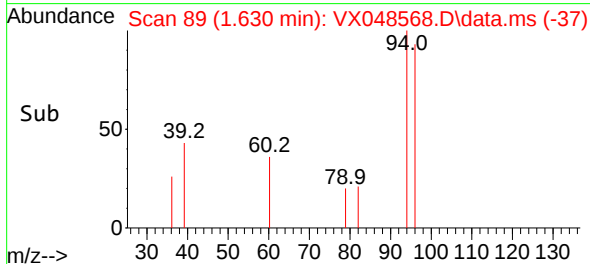
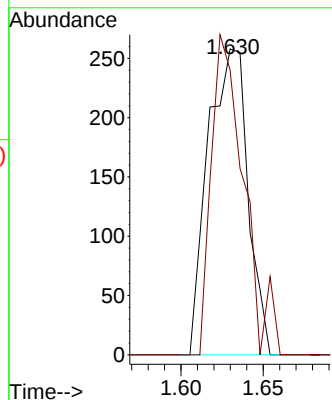
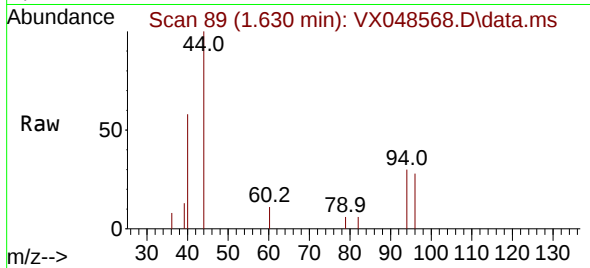




#5
Bromomethane
Concen: 0.275 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.018 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

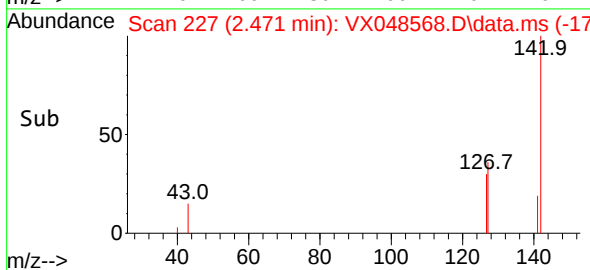
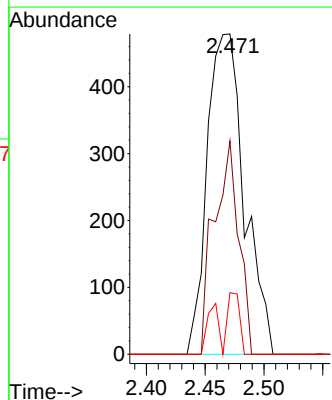
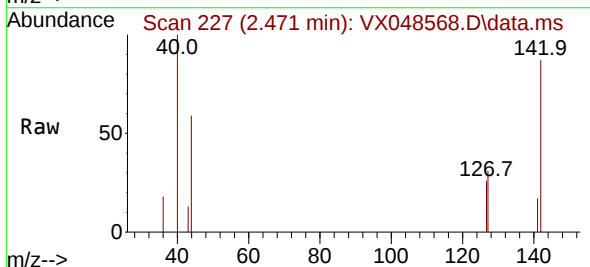
Instrument :
MSVOA_X
ClientSampleId :
SHORT-HILLS-DW

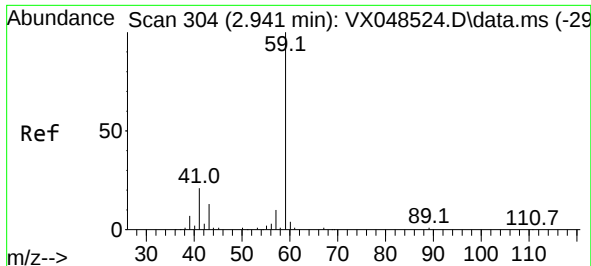
Tgt Ion: 94 Resp: 435
Ion Ratio Lower Upper
94 100
96 93.0 72.3 108.5



#10
Methyl Iodide
Concen: 0.310 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.018 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 142 Resp: 1054
Ion Ratio Lower Upper
142 100
127 44.1 35.8 53.6
141 6.4 11.4 17.0#

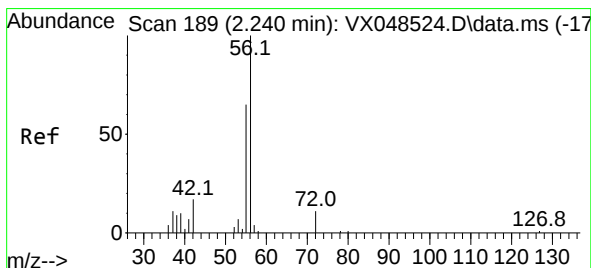
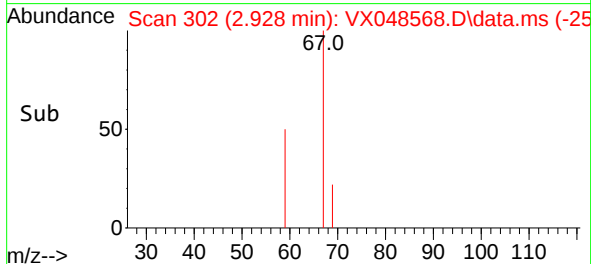
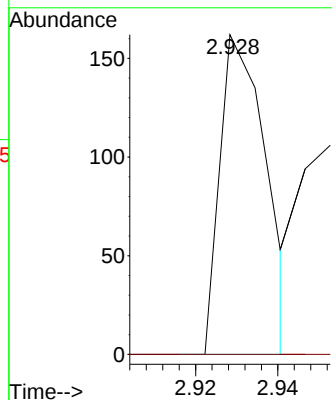
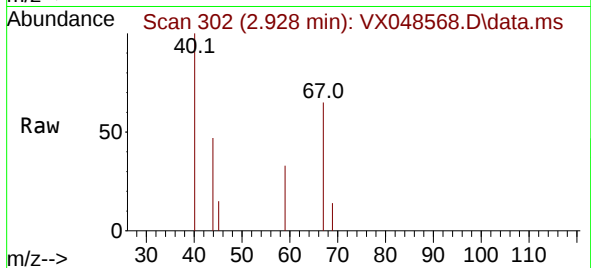




#11
Tert butyl alcohol
Concen: 0.235 ug/l
RT: 2.928 min Scan# 304
Delta R.T. -0.012 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

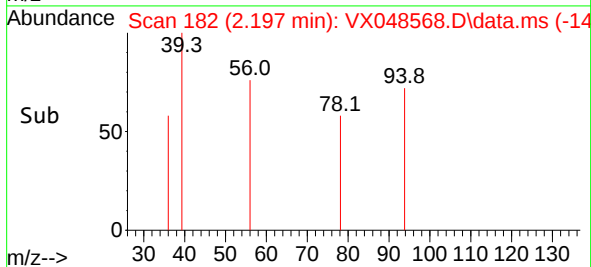
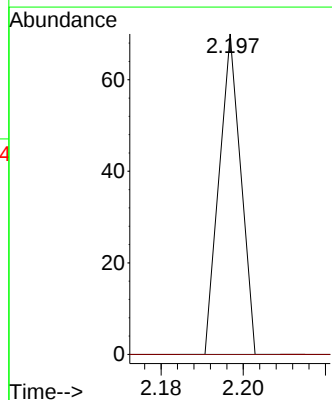
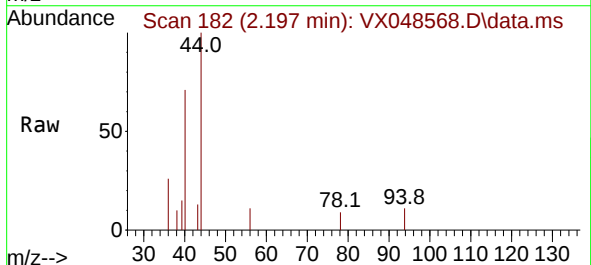
Instrument :
MSVOA_X
ClientSampleId :
SHORT-HILLS-DW

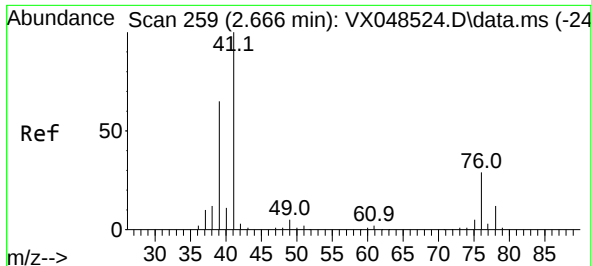
Tgt Ion: 59 Resp: 128
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#13
Acrolein
Concen: 0.331 ug/l
RT: 2.197 min Scan# 182
Delta R.T. -0.043 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 54.9 82.3#

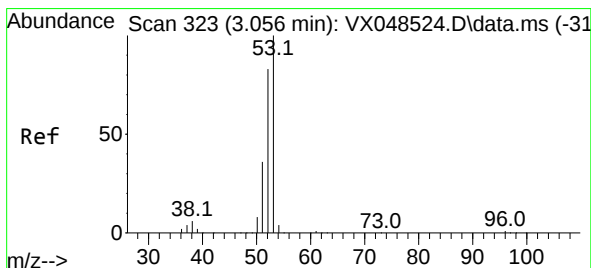
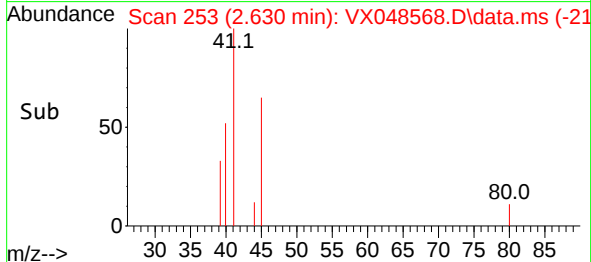
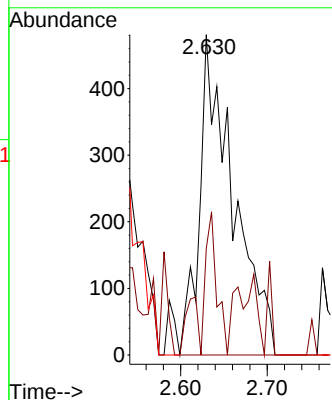
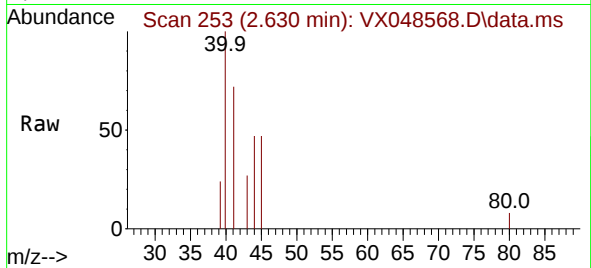




#14
 Allyl chloride
 Concen: 0.291 ug/l
 RT: 2.630 min Scan# 21
 Delta R.T. -0.037 min
 Lab File: VX048568.D
 Acq: 12 Nov 2025 11:18

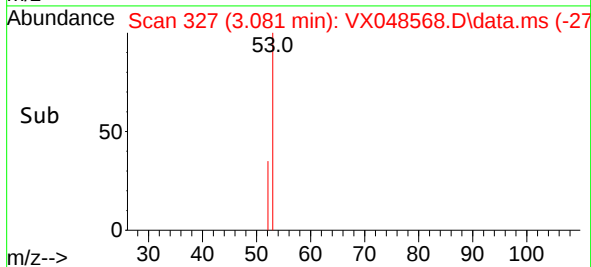
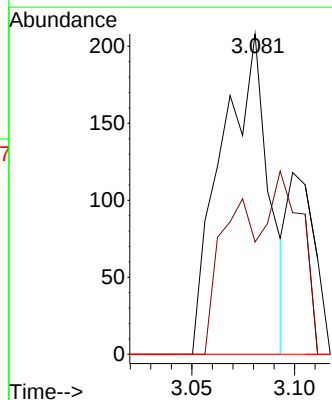
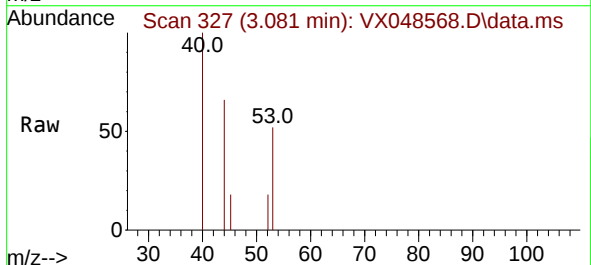
Instrument :
 MSVOA_X
 ClientSampleId :
 SHORT-HILLS-DW

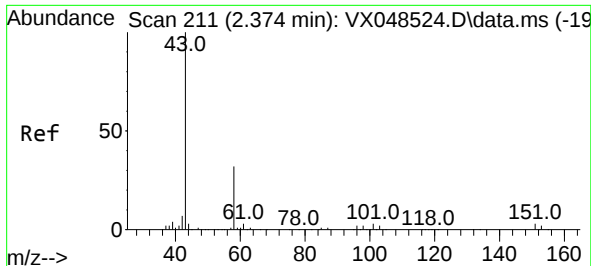
Tgt Ion: 41 Resp: 1298
 Ion Ratio Lower Upper
 41 100
 39 14.9 48.6 73.0#
 76 0.0 27.7 41.5#



#15
 Acrylonitrile
 Concen: 0.209 ug/l
 RT: 3.081 min Scan# 327
 Delta R.T. 0.024 min
 Lab File: VX048568.D
 Acq: 12 Nov 2025 11:18

Tgt Ion: 53 Resp: 332
 Ion Ratio Lower Upper
 53 100
 52 37.0 65.3 97.9#
 51 0.0 27.8 41.6#

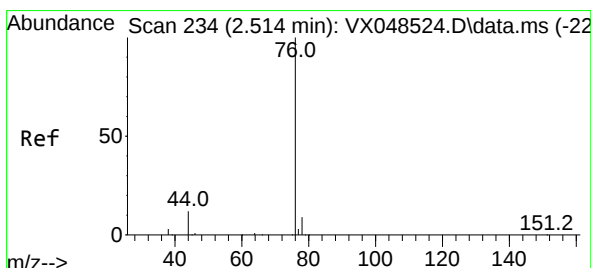
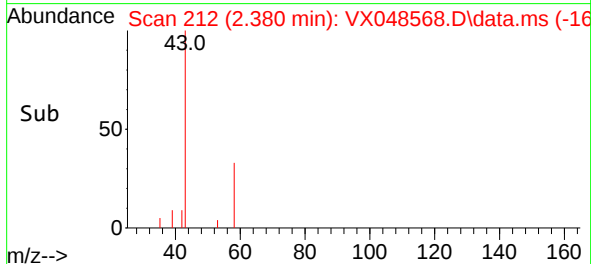
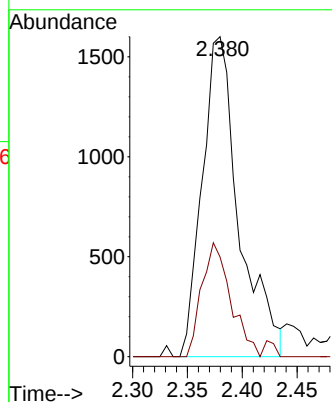
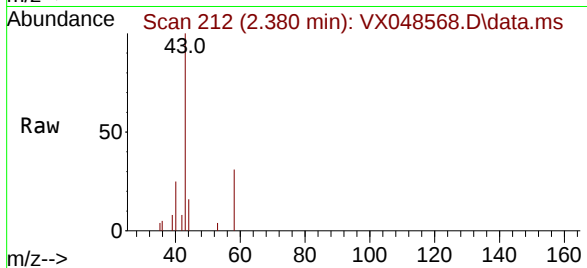




#16
Acetone
Concen: 2.753 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

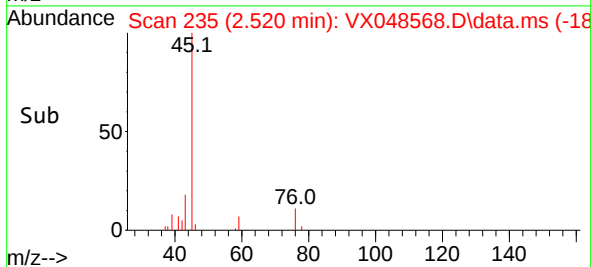
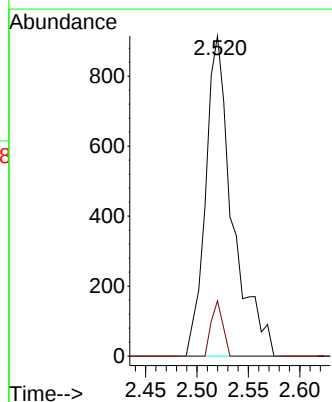
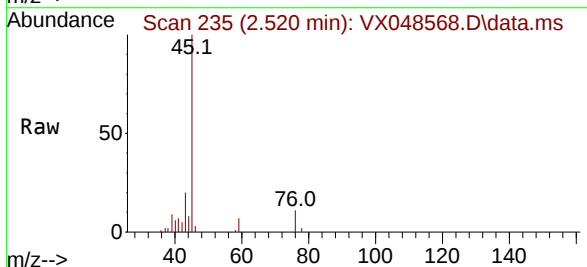
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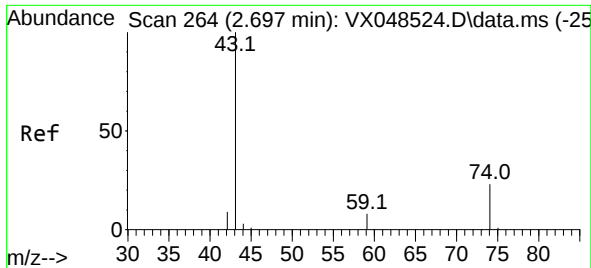
Tgt Ion: 43 Resp: 3738
Ion Ratio Lower Upper
43 100
58 31.2 25.8 38.6



#17
Carbon Disulfide
Concen: 0.247 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.006 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 76 Resp: 1668
Ion Ratio Lower Upper
76 100
78 17.3 7.1 10.7#

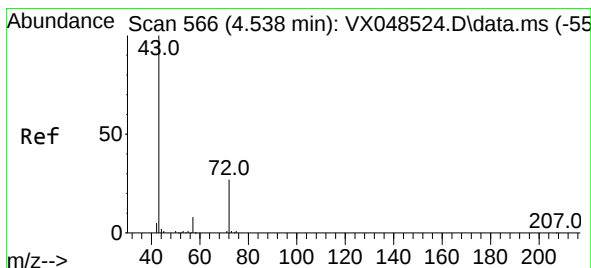
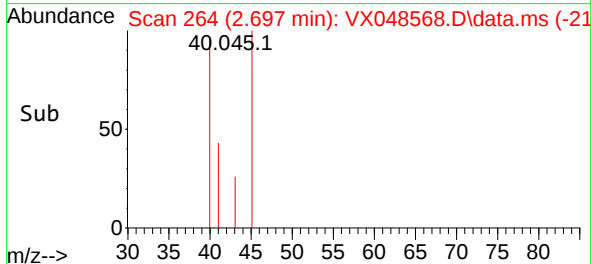
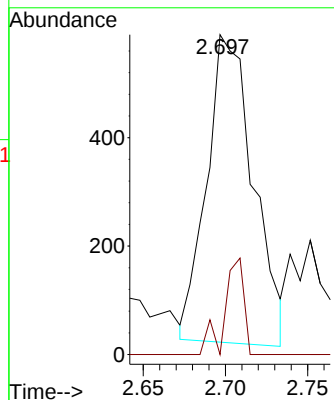
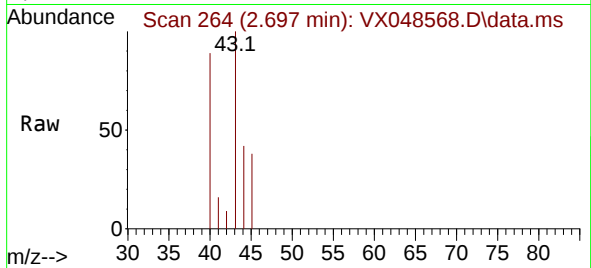




#18
Methyl Acetate
Concen: 0.300 ug/l
RT: 2.697 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

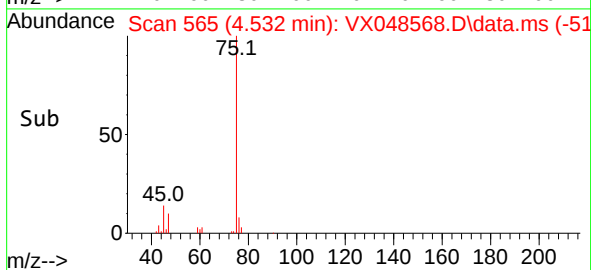
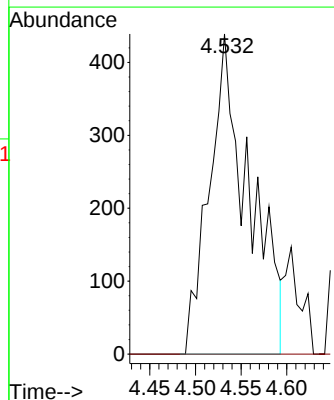
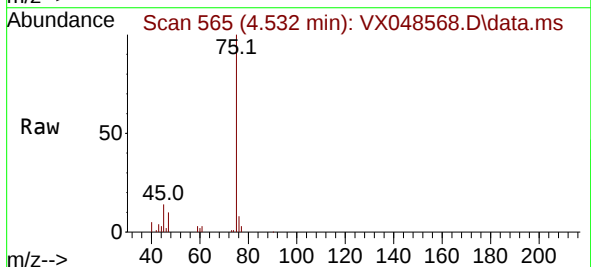
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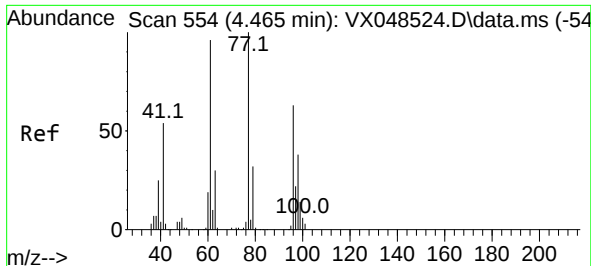
Tgt Ion: 43 Resp: 1118
Ion Ratio Lower Upper
43 100
74 13.0 19.1 28.7#



#25
2-Butanone
Concen: 0.664 ug/l
RT: 4.532 min Scan# 565
Delta R.T. -0.006 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 43 Resp: 1333
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#

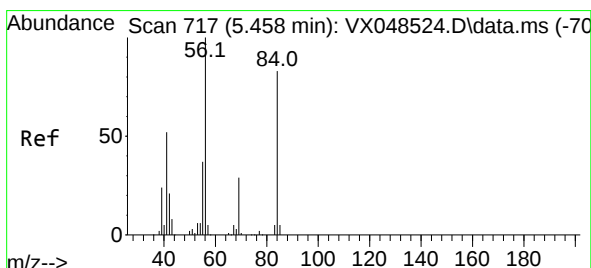
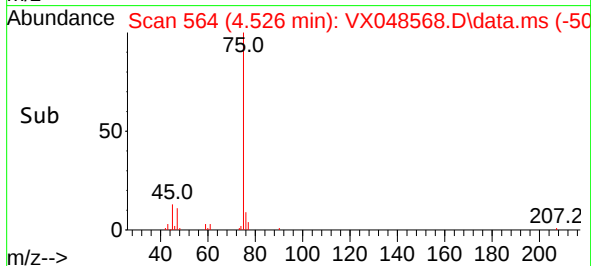
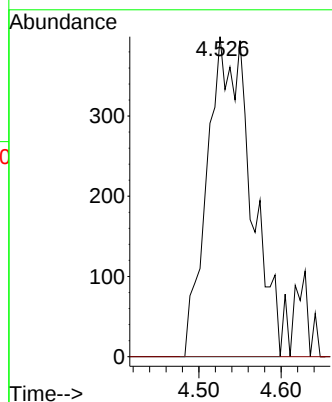
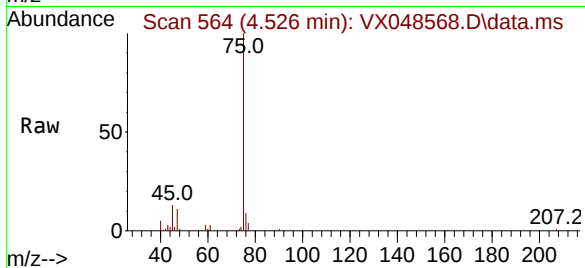




#26
2,2-Dichloropropane
Concen: 0.364 ug/l
RT: 4.526 min Scan# 51
Delta R.T. 0.061 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

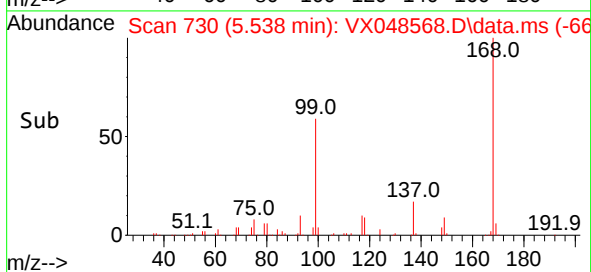
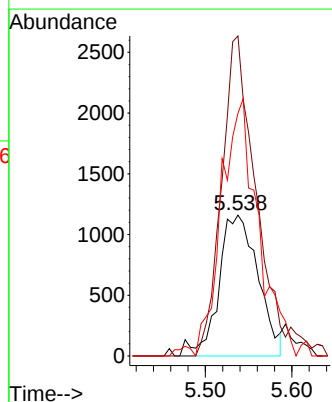
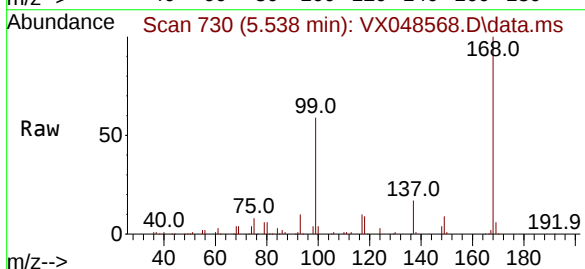
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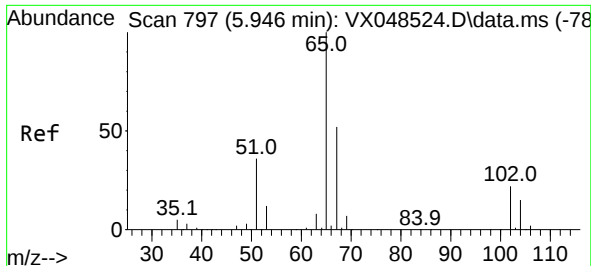
Tgt Ion: 77 Resp: 1458
Ion Ratio Lower Upper
77 100
97 0.0 11.7 35.1#



#31
Cyclohexane
Concen: 0.951 ug/l
RT: 5.538 min Scan# 730
Delta R.T. 0.079 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 56 Resp: 3663
Ion Ratio Lower Upper
56 100
69 227.2 23.4 35.2#
84 167.8 66.3 99.5#





#33

1,2-Dichloroethane-d4

Concen: 49.476 ug/l

RT: 5.940 min Scan# 797

Delta R.T. -0.006 min

Lab File: VX048568.D

Acq: 12 Nov 2025 11:18

Instrument :

MSVOA_X

ClientSampleId :

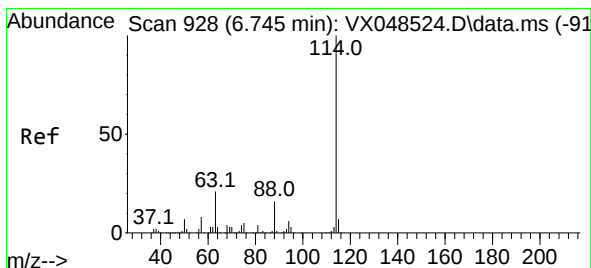
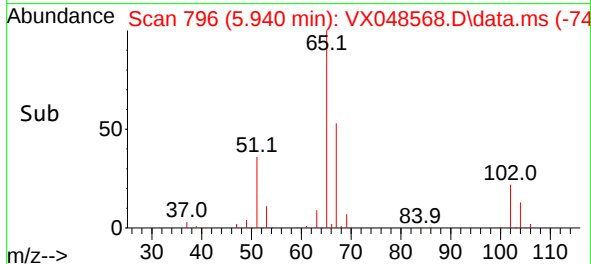
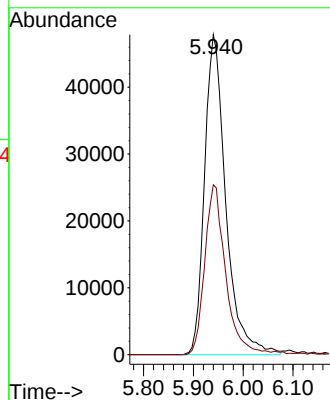
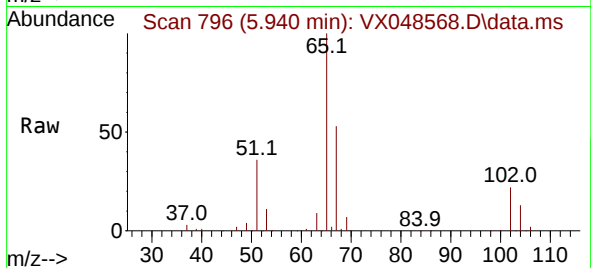
SHORT-HILLS-DW

Tgt Ion: 65 Resp: 141933

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048568.D

Acq: 12 Nov 2025 11:18

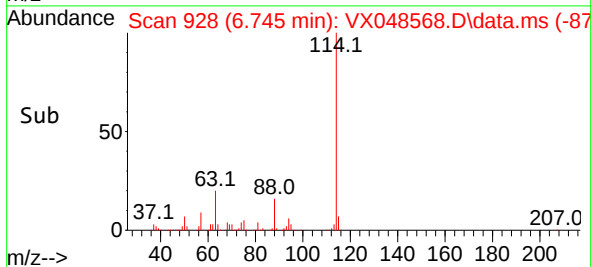
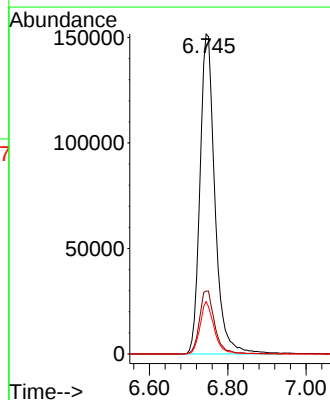
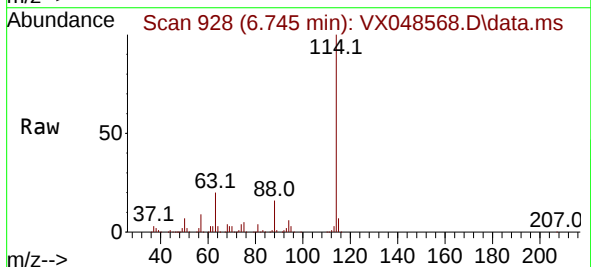
Tgt Ion: 114 Resp: 402551

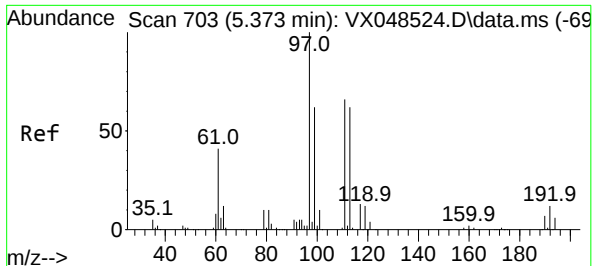
Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.2

88 16.4 0.0 32.2

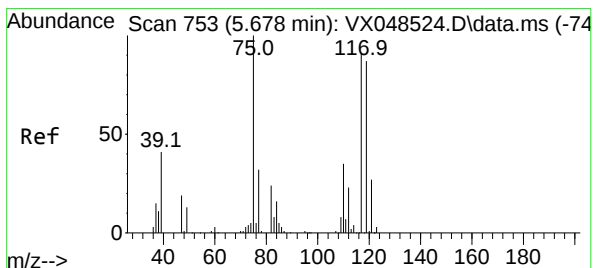
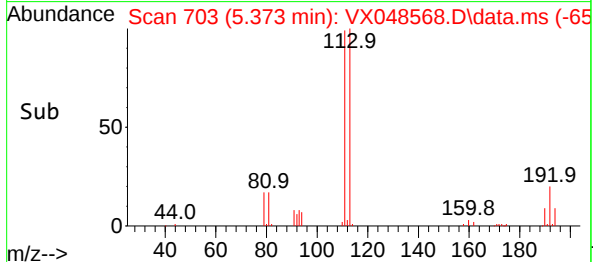
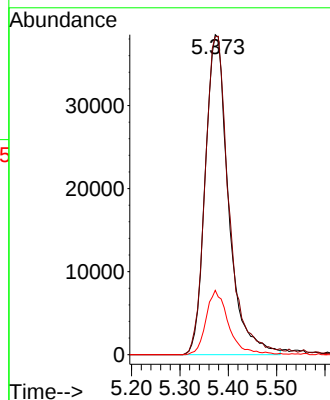
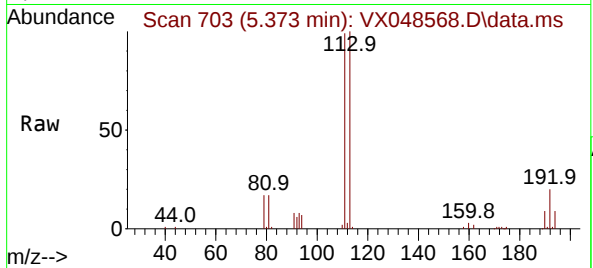




#35
Dibromofluoromethane
Concen: 42.271 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

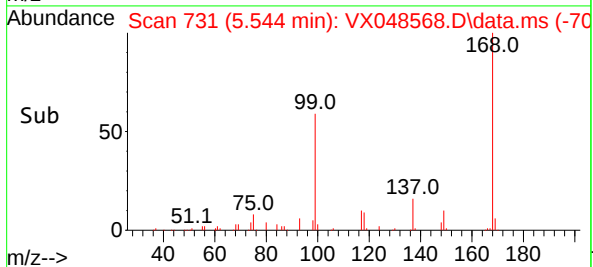
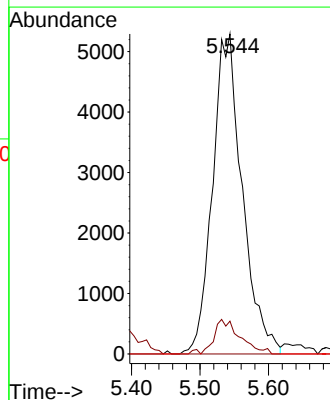
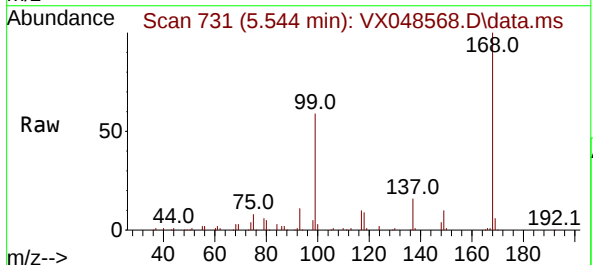
Instrument :
MSVOA_X
ClientSampleId :
SHORT-HILLS-DW

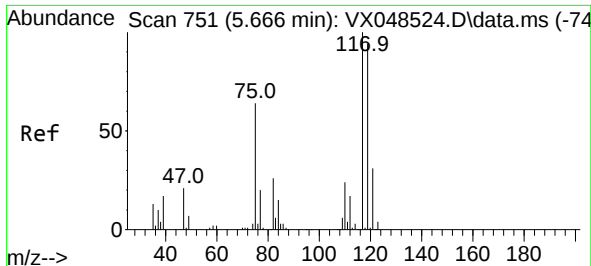
Tgt Ion:113 Resp: 128790
Ion Ratio Lower Upper
113 100
111 101.9 81.9 122.9
192 19.4 15.8 23.6



#36
1,1-Dichloropropene
Concen: 3.898 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.134 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 75 Resp: 15904
Ion Ratio Lower Upper
75 100
110 9.3 18.4 55.4#
77 0.0 24.6 37.0#

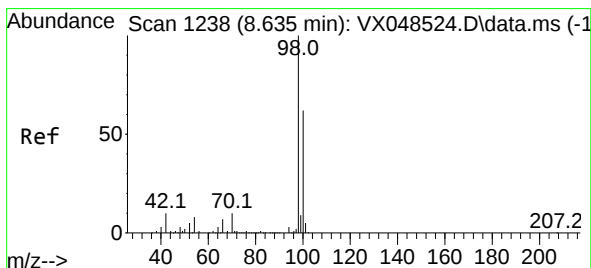
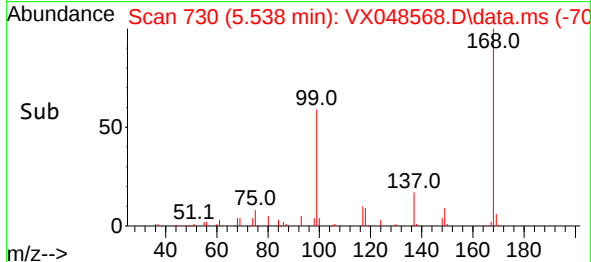
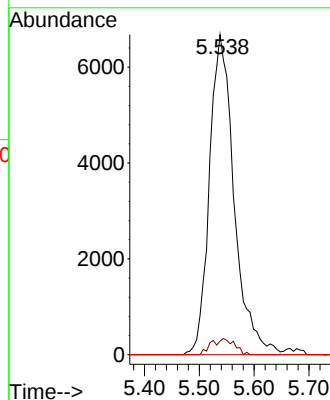
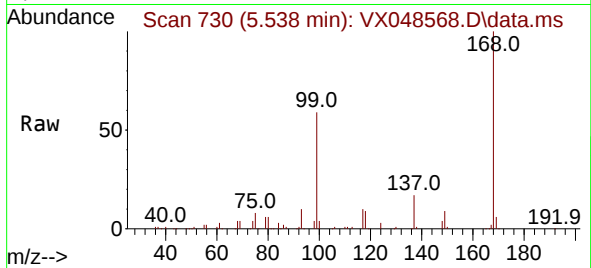




#38
Carbon Tetrachloride
Concen: 4.495 ug/l
RT: 5.538 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

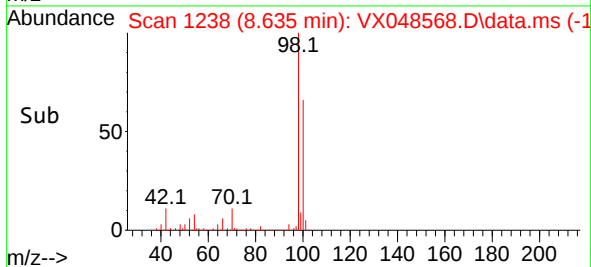
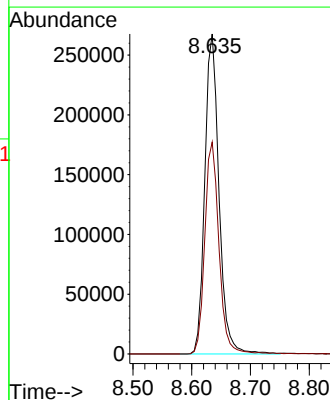
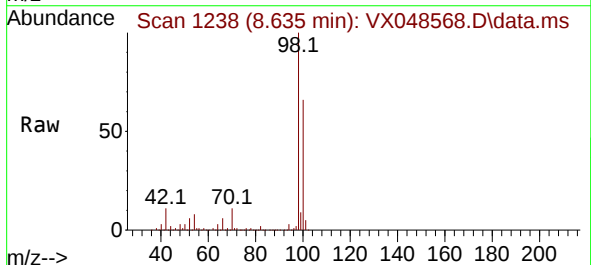
Instrument :
MSVOA_X
ClientSampleId :
SHORT-HILLS-DW

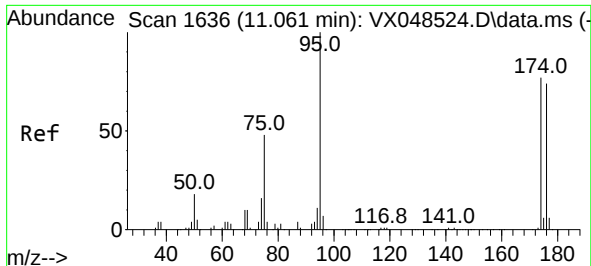
Tgt Ion:117 Resp: 20875
Ion Ratio Lower Upper
117 100
119 4.3 74.5 111.7#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 47.324 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 98 Resp: 449688
Ion Ratio Lower Upper
98 100
100 66.4 53.6 80.4





#62

4-Bromofluorobenzene

Concen: 54.433 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048568.D

Acq: 12 Nov 2025 11:18

Instrument :

MSVOA_X

ClientSampleId :

SHORT-HILLS-DW

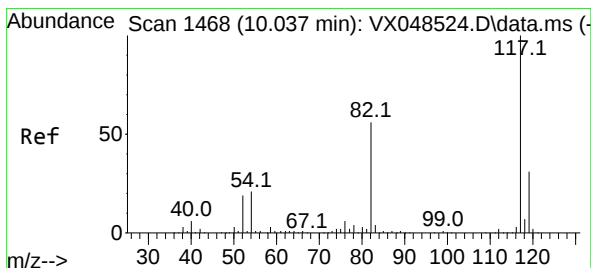
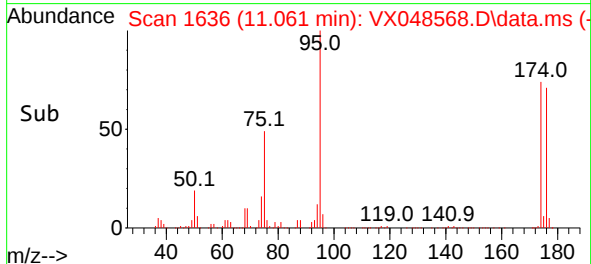
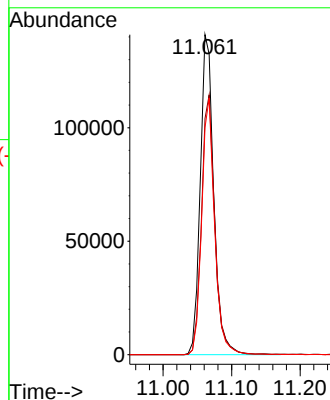
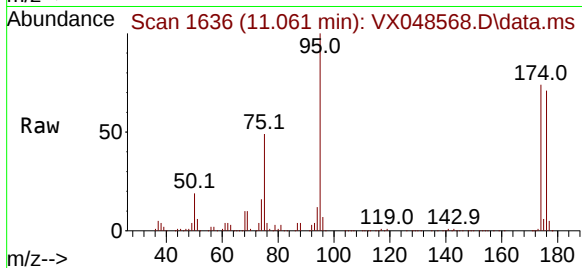
Tgt Ion: 95 Resp: 192760

Ion Ratio Lower Upper

95 100

174 81.0 0.0 161.8

176 77.3 0.0 153.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048568.D

Acq: 12 Nov 2025 11:18

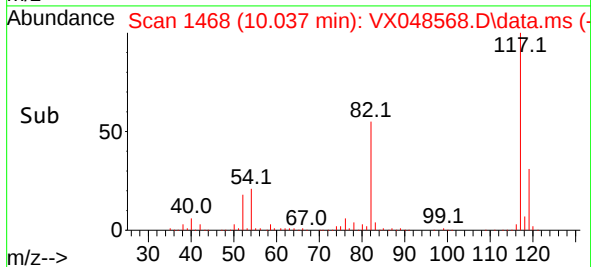
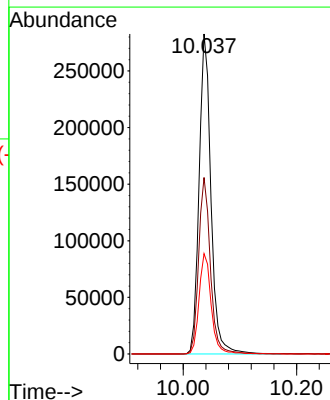
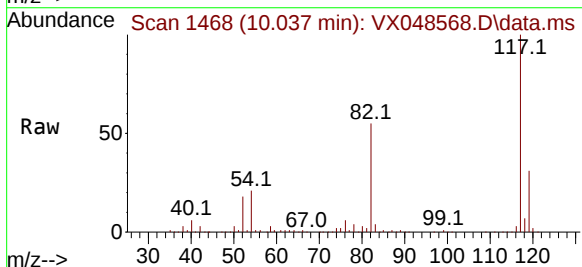
Tgt Ion: 117 Resp: 408643

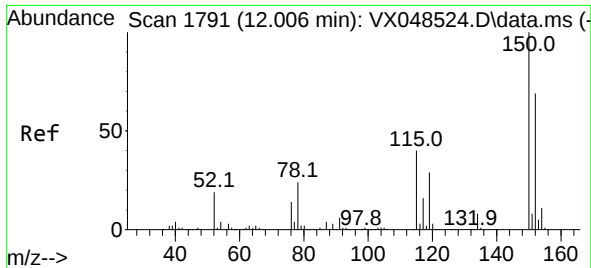
Ion Ratio Lower Upper

117 100

82 55.2 44.4 66.6

119 31.3 25.1 37.7

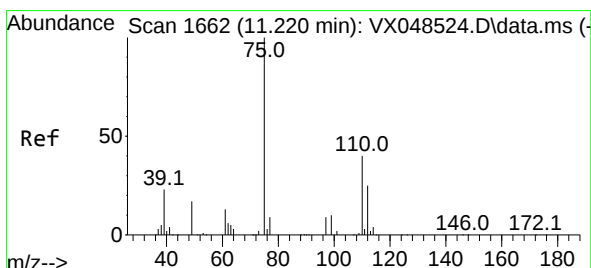
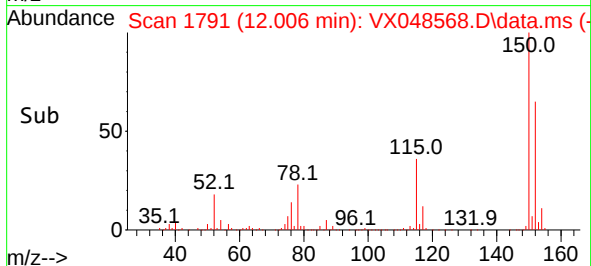
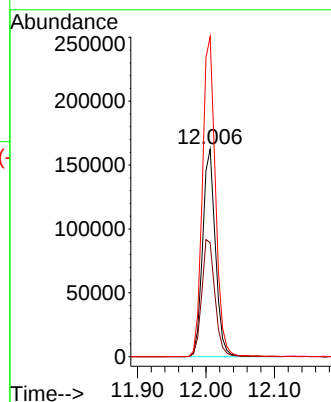
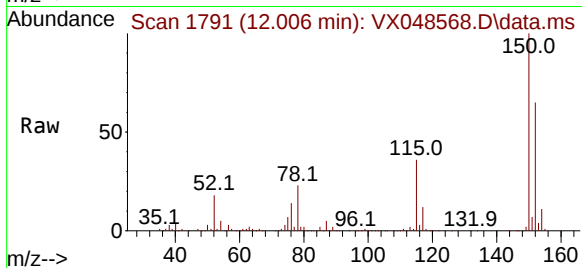




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048568.D
 Acq: 12 Nov 2025 11:18

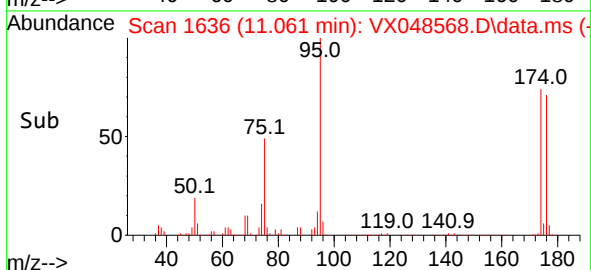
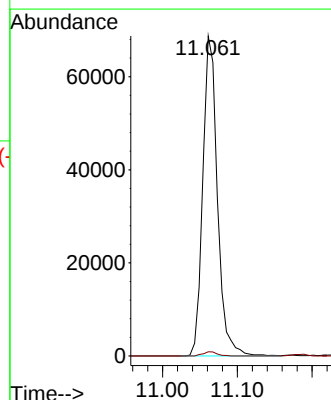
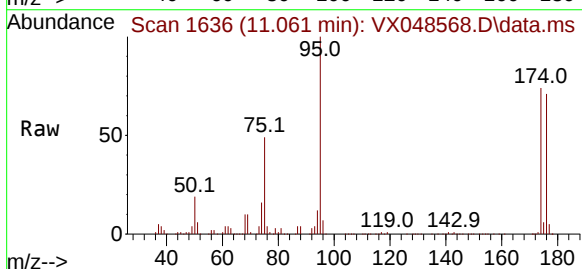
Instrument :
 MSVOA_X
 ClientSampleId :
 SHORT-HILLS-DW

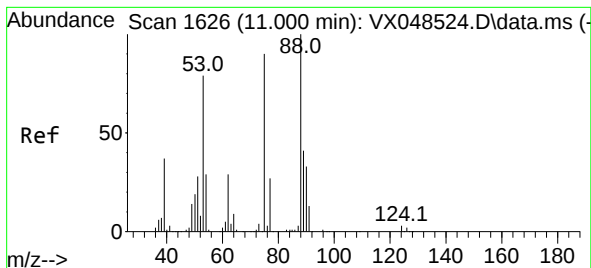
Tgt Ion:152 Resp: 211749
 Ion Ratio Lower Upper
 152 100
 115 58.1 39.2 117.6
 150 156.7 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 18.299 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048568.D
 Acq: 12 Nov 2025 11:18

Tgt Ion: 75 Resp: 93350
 Ion Ratio Lower Upper
 75 100
 77 1.3 24.3 72.8#

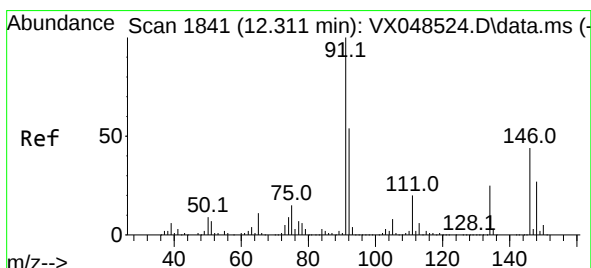
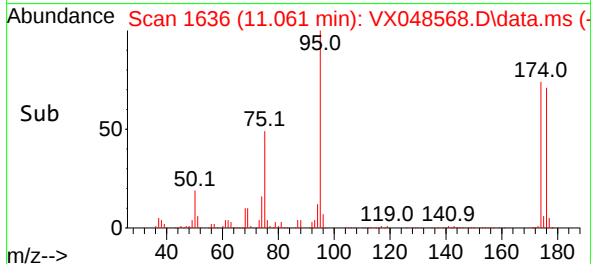
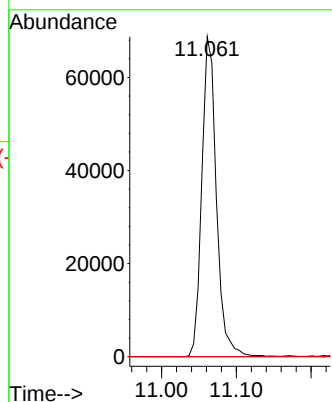
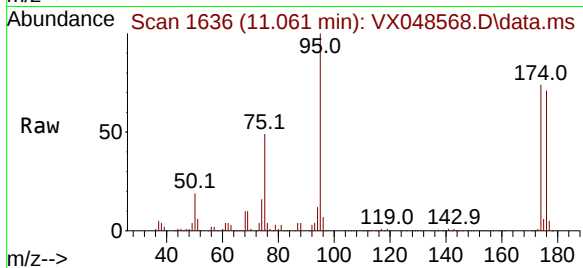




#81
trans-1,4-Dichloro-2-butene
Concen: 52.341 ug/l
RT: 11.061 min Scan# 1106
Delta R.T. 0.061 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

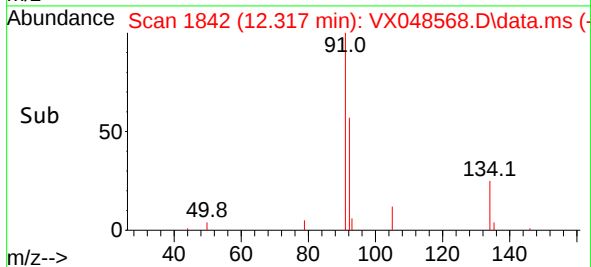
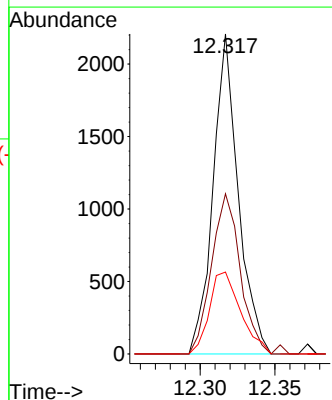
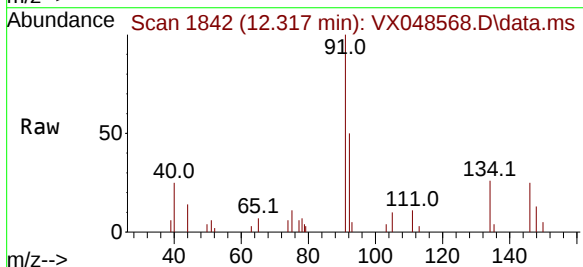
Instrument :
MSVOA_X
ClientSampleId :
SHORT-HILLS-DW

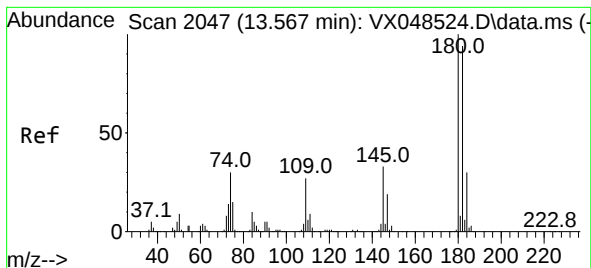
Tgt Ion: 75 Resp: 93350
Ion Ratio Lower Upper
75 100
53 0.0 72.4 108.6#
89 0.0 43.6 65.4#



#89
n-Butylbenzene
Concen: 0.204 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX048568.D
Acq: 12 Nov 2025 11:18

Tgt Ion: 91 Resp: 2583
Ion Ratio Lower Upper
91 100
92 57.9 27.2 81.5
134 31.9 13.0 39.0





#93

1,2,4-Trichlorobenzene

Concen: 0.309 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX048568.D

Acq: 12 Nov 2025 11:18

Instrument :

MSVOA_X

ClientSampleId :

SHORT-HILLS-DW

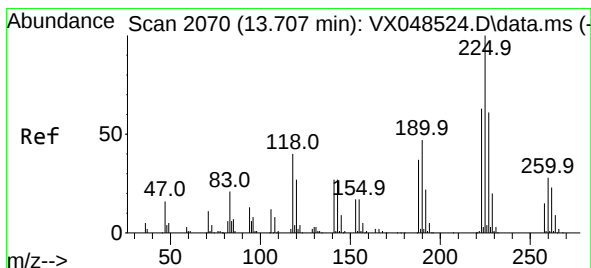
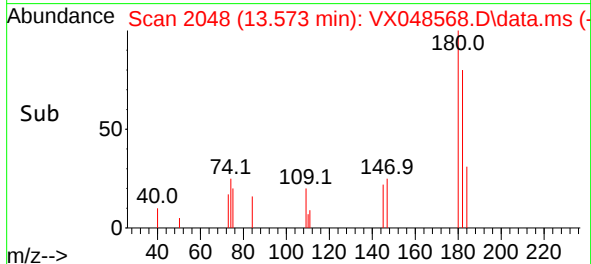
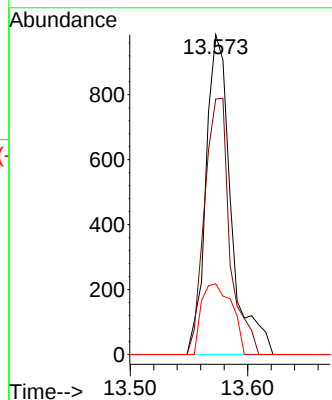
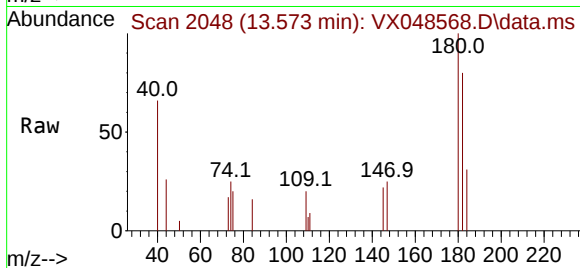
Tgt Ion:180 Resp: 1465

Ion Ratio Lower Upper

180 100

182 80.6 47.5 142.6

145 26.6 15.9 47.7



#94

Hexachlorobutadiene

Concen: 0.386 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX048568.D

Acq: 12 Nov 2025 11:18

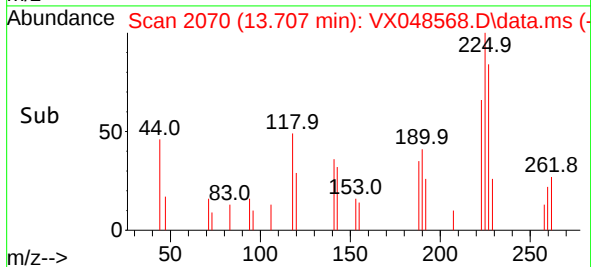
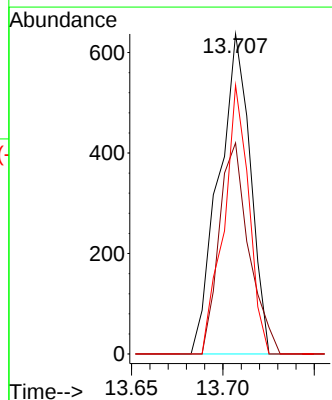
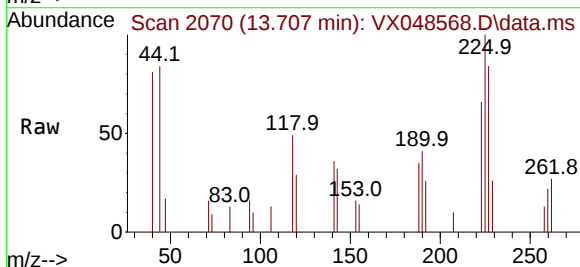
Tgt Ion:225 Resp: 765

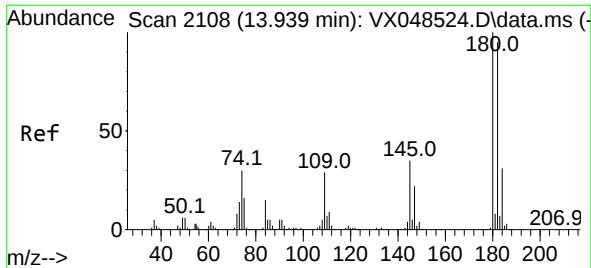
Ion Ratio Lower Upper

225 100

223 62.2 30.6 92.0

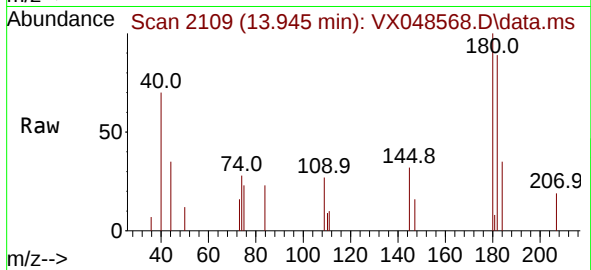
227 66.5 32.5 97.4





#96
 1,2,3-Trichlorobenzene
 Concen: 0.266 ug/l
 RT: 13.945 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX048568.D
 Acq: 12 Nov 2025 11:18

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORT-HILLS-DW



Tgt Ion:	180	Resp:	1172
Ion	Ratio	Lower	Upper
180	100		
182	91.3	47.3	142.0
145	27.0	16.7	50.0

