

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082225\
 Data File : VX047490.D
 Acq On : 22 Aug 2025 12:34
 Operator : JC/MD
 Sample : Q2903-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB

Quant Time: Aug 25 01:26:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

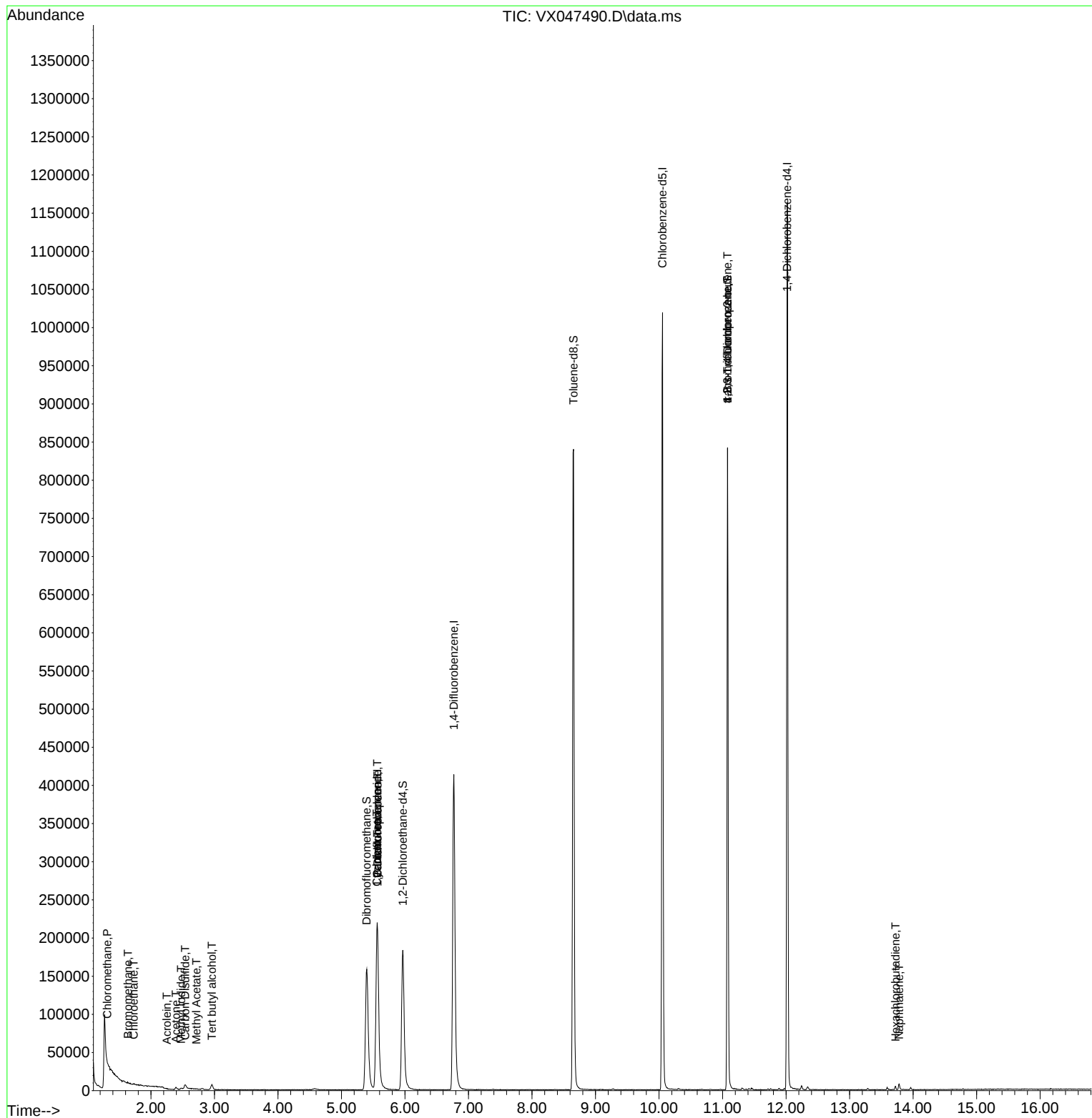
Internal Standards						
1) Pentafluorobenzene	5.562	168	220525	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	455945	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	461037	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	232180	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	193746	62.776	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 125.560%#	
35) Dibromofluoromethane	5.397	113	151940	51.346	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.700%	
50) Toluene-d8	8.653	98	523869	49.530	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 99.060%	
62) 4-Bromofluorobenzene	11.079	95	222667	57.050	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 114.100%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.313	50	1355	0.536	ug/l #	41
5) Bromomethane	1.636	94	526	0.410	ug/l #	3
6) Chloroethane	1.727	64	1570	0.808	ug/l #	49
10) Methyl Iodide	2.477	142	3057	0.655	ug/l #	92
11) Tert butyl alcohol	2.959	59	3381	12.593	ug/l #	78
13) Acrolein	2.252	56	136	0.240	ug/l	92
16) Acetone	2.392	43	3297	2.842	ug/l #	83
17) Carbon Disulfide	2.538	76	8123	0.969	ug/l	95
18) Methyl Acetate	2.715	43	613	0.204	ug/l #	53
31) Cyclohexane	5.556	56	4716	0.949	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	18629	3.988	ug/l #	50
38) Carbon Tetrachloride	5.562	117	22868	4.480	ug/l #	15
76) 1,2,3-Trichloropropane	11.079	75	115533	27.130	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	115533	107.245	ug/l #	7
94) Hexachlorobutadiene	13.725	225	674	0.351	ug/l	89
95) Naphthalene	13.780	128	6005	0.390	ug/l	97

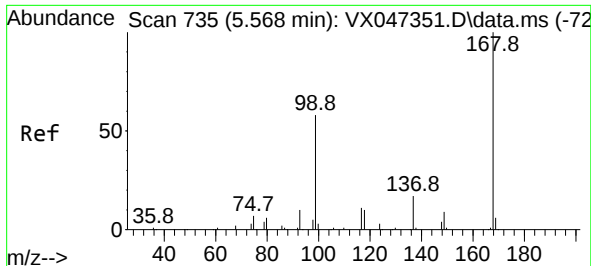
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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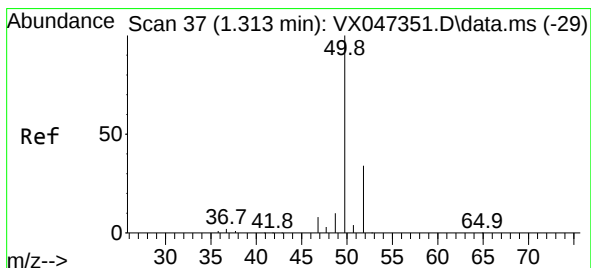
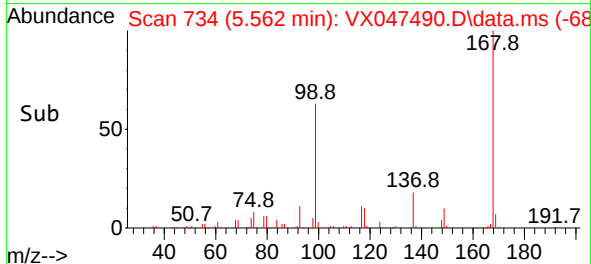
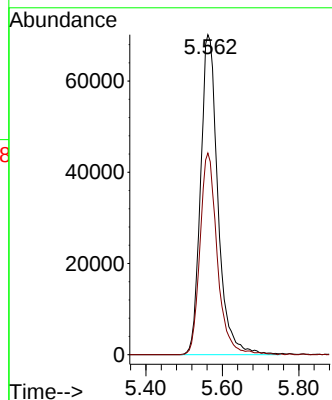
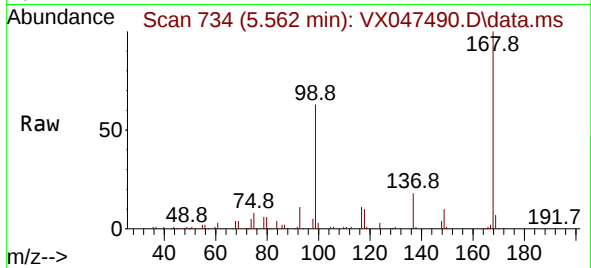




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

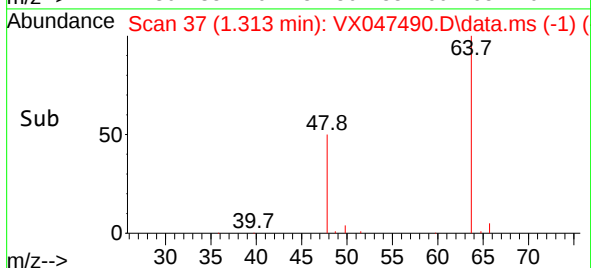
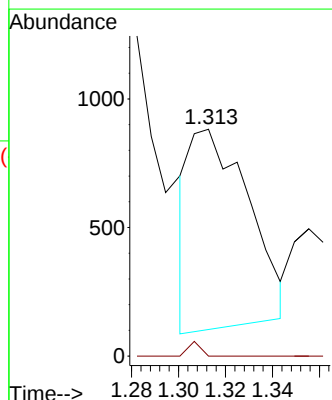
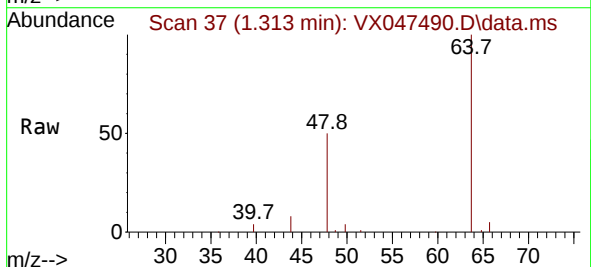
Instrument :
MSVOA_X
ClientSampleId :
TB

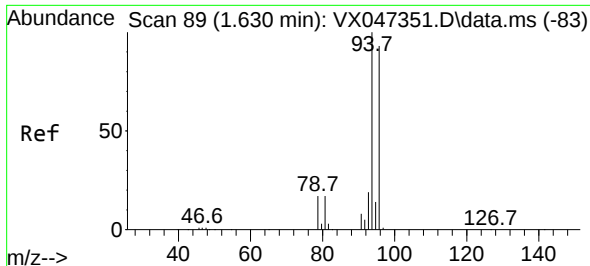
Tgt Ion:168 Resp: 220525
Ion Ratio Lower Upper
168 100
99 63.0 47.9 71.9



#3
Chloromethane
Concen: 0.536 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion: 50 Resp: 1355
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.4#

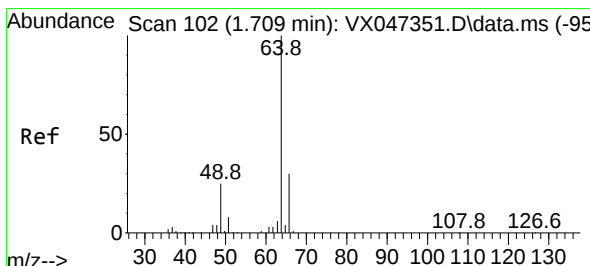
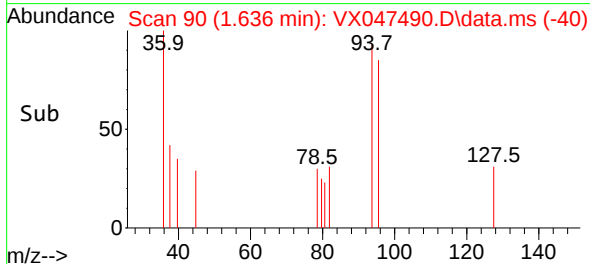
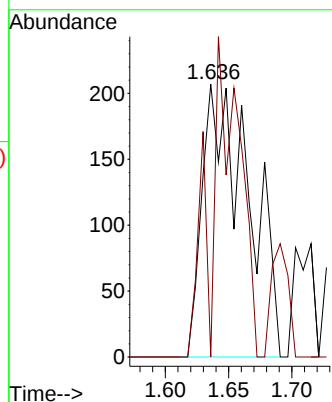
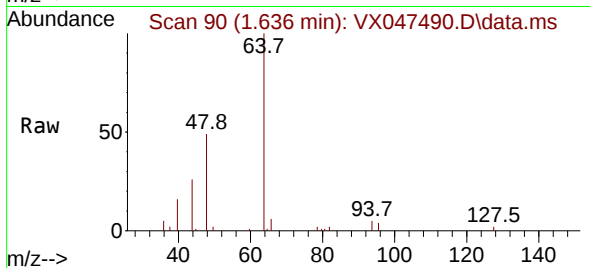




#5
Bromomethane
Concen: 0.410 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.006 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

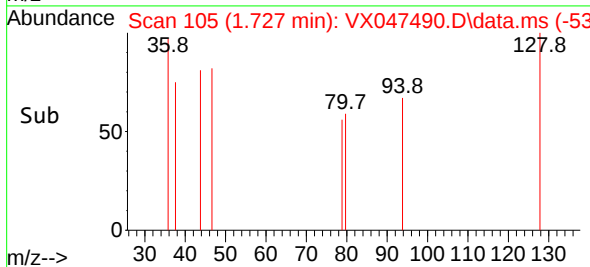
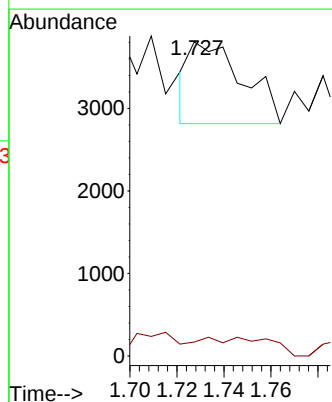
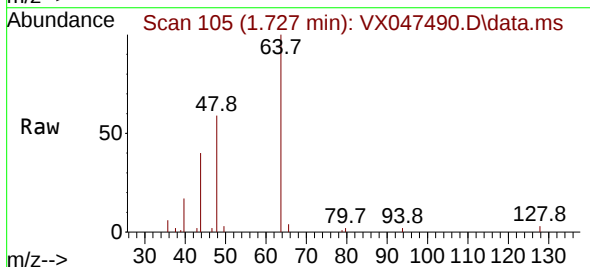
Instrument :
MSVOA_X
ClientSampleId :
TB

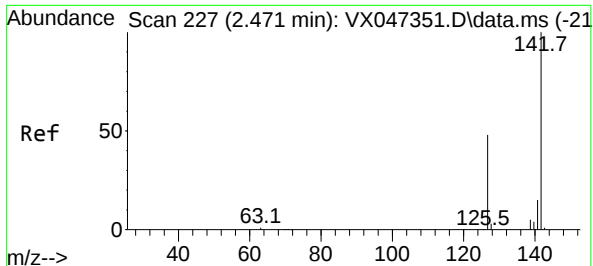
Tgt Ion: 94 Resp: 526
Ion Ratio Lower Upper
94 100
96 0.0 74.7 112.1#



#6
Chloroethane
Concen: 0.808 ug/l
RT: 1.727 min Scan# 105
Delta R.T. 0.018 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion: 64 Resp: 1570
Ion Ratio Lower Upper
64 100
66 2.7 24.4 36.6#

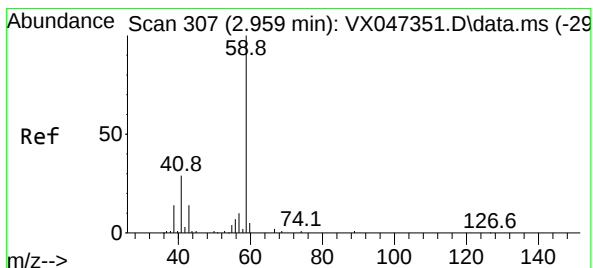
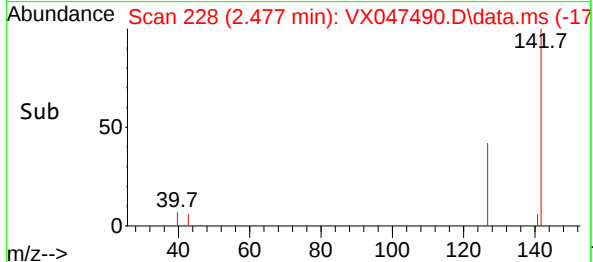
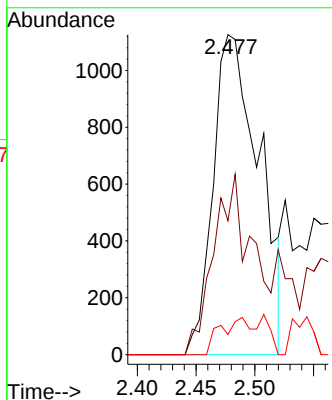
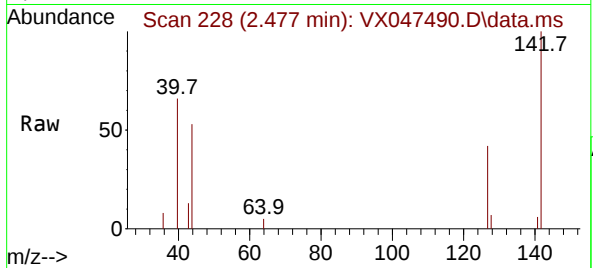




#10
Methyl Iodide
Concen: 0.655 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

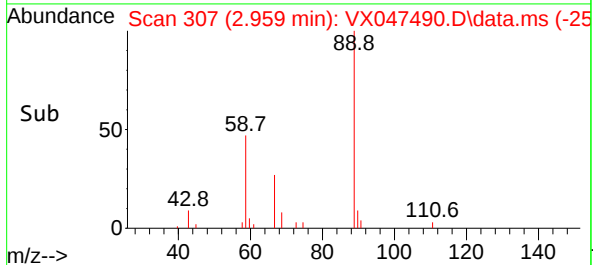
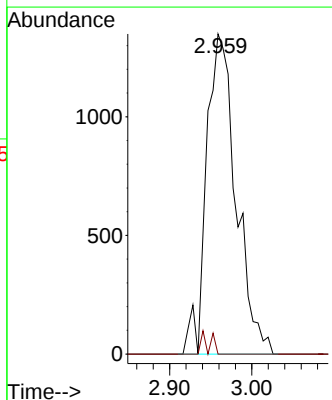
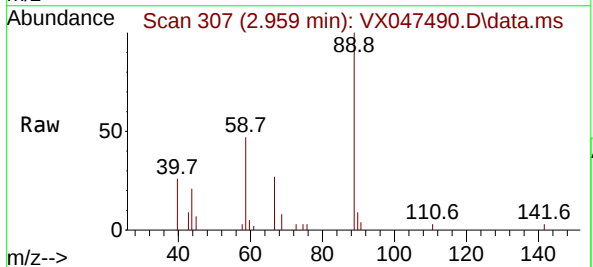
Instrument :
MSVOA_X
ClientSampleId :
TB

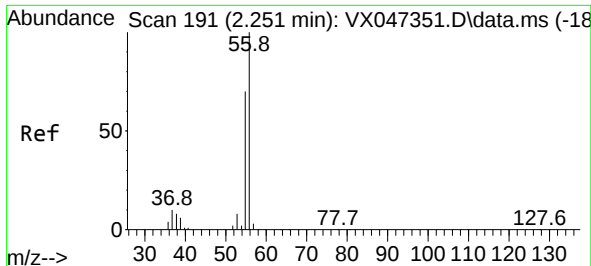
Tgt Ion:142 Resp: 3057
Ion Ratio Lower Upper
142 100
127 48.5 36.1 54.1
141 7.2 11.1 16.7#



#11
Tert butyl alcohol
Concen: 12.593 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion: 59 Resp: 3381
Ion Ratio Lower Upper
59 100
57 2.0 8.3 12.5#

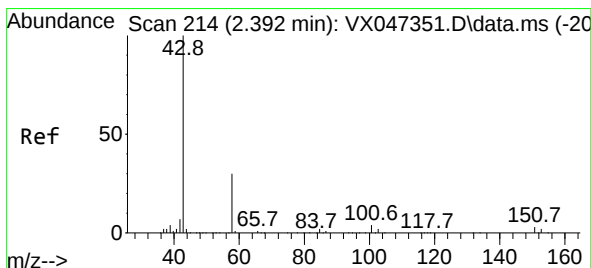
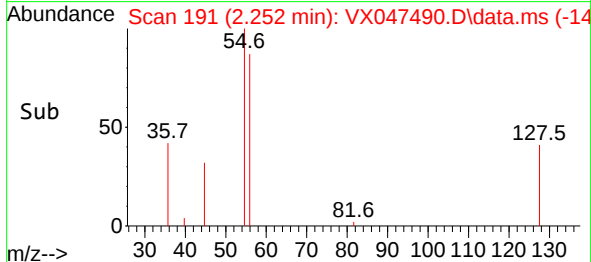
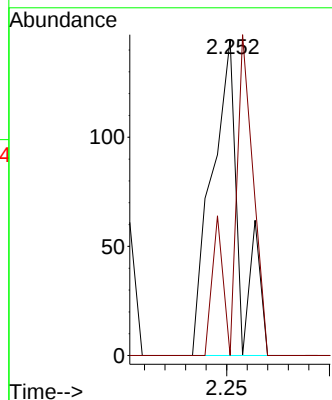
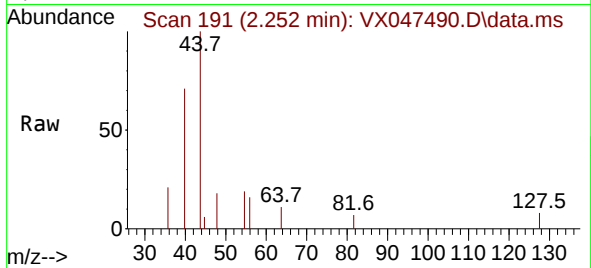




#13
Acrolein
Concen: 0.240 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

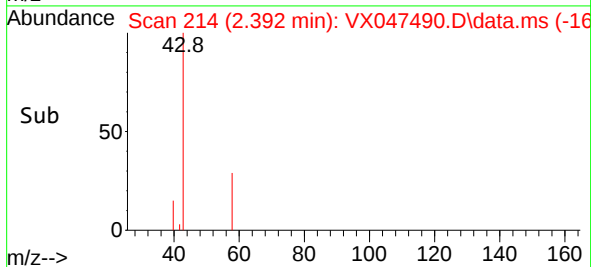
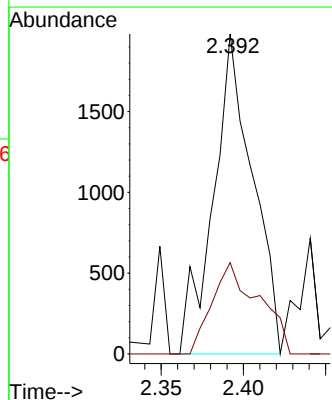
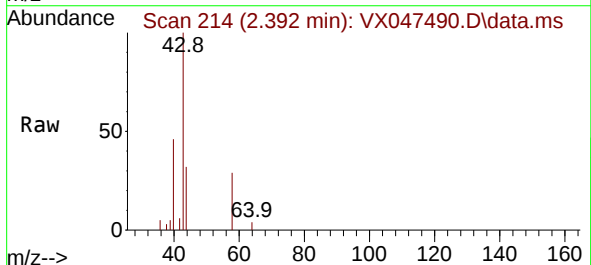
Instrument :
MSVOA_X
ClientSampleId :
TB

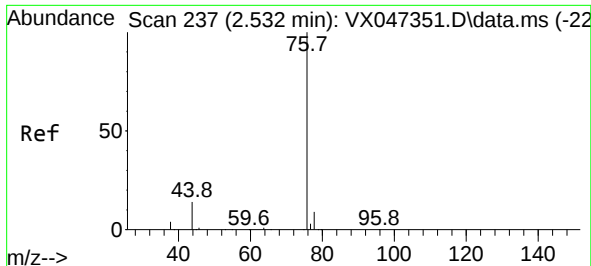
Tgt Ion: 56 Resp: 136
Ion Ratio Lower Upper
56 100
55 75.7 55.5 83.3



#16
Acetone
Concen: 2.842 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion: 43 Resp: 3297
Ion Ratio Lower Upper
43 100
58 21.6 24.8 37.2#





#17

Carbon Disulfide

Concen: 0.969 ug/l

RT: 2.538 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX047490.D

Acq: 22 Aug 2025 12:34

Instrument :

MSVOA_X

ClientSampleId :

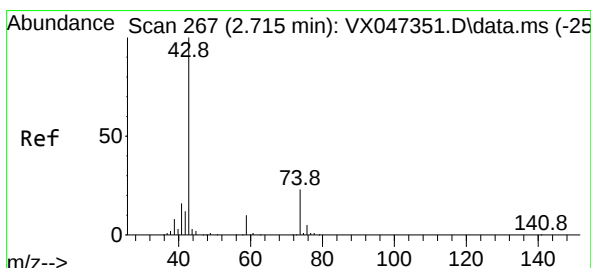
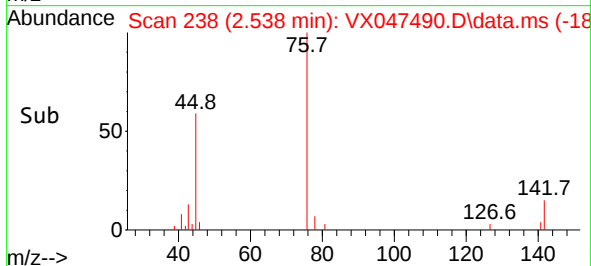
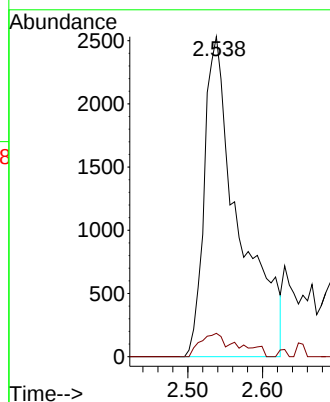
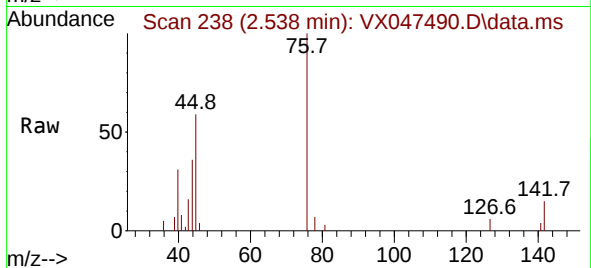
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Tgt Ion: 76 Resp: 8123

Ion Ratio Lower Upper

76 100

78 7.3 7.2 10.8



#18

Methyl Acetate

Concen: 0.204 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX047490.D

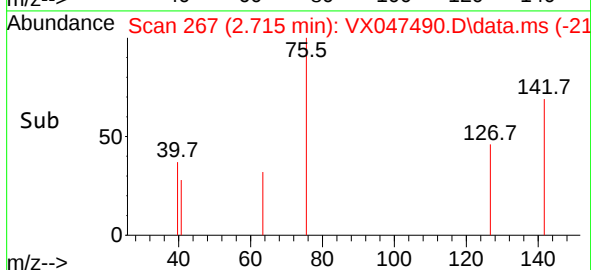
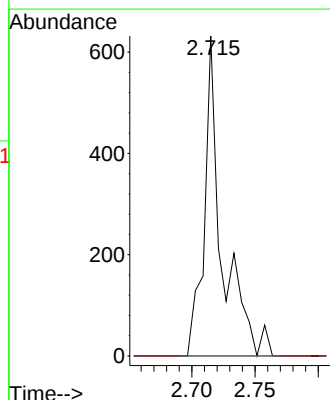
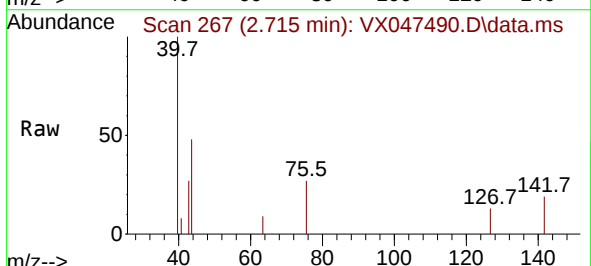
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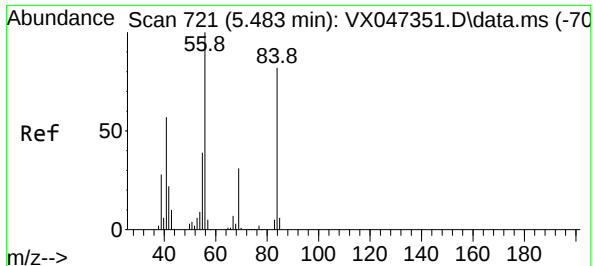
Tgt Ion: 43 Resp: 613

Ion Ratio Lower Upper

43 100

74 0.0 18.4 27.6#

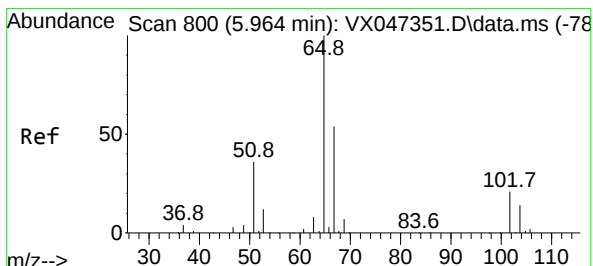
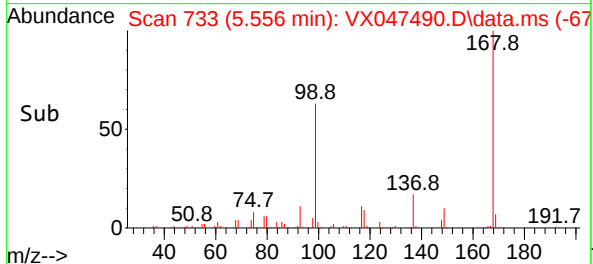
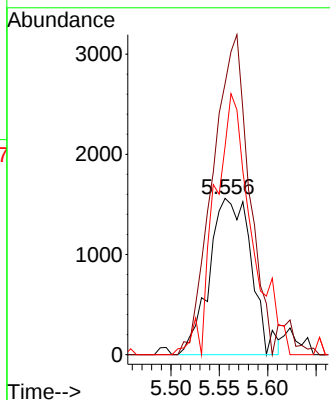
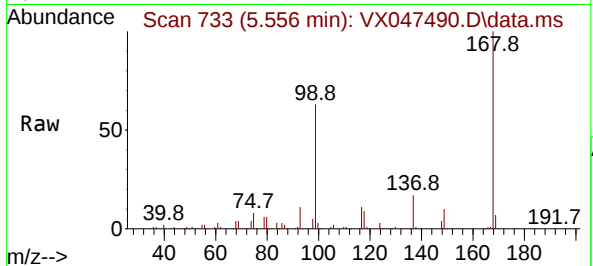




#31
Cyclohexane
Concen: 0.949 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.073 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

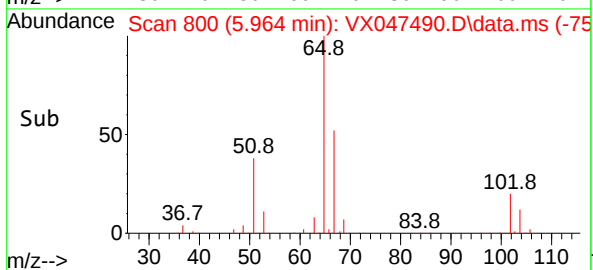
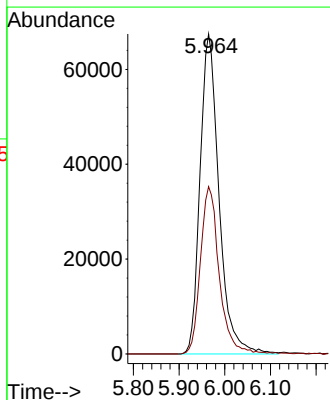
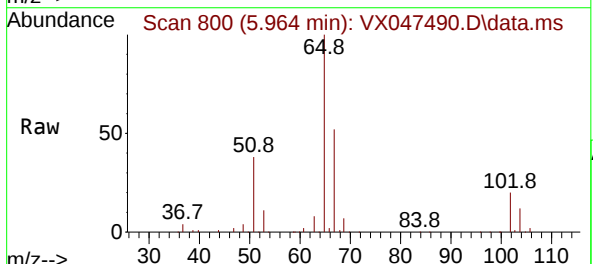
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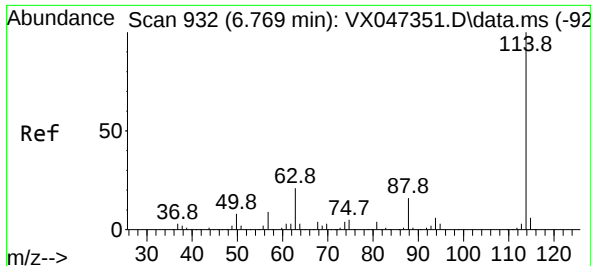
Tgt Ion: 56 Resp: 4716
Ion Ratio Lower Upper
56 100
69 173.5 24.3 36.5#
84 129.6 65.3 97.9#



#33
1,2-Dichloroethane-d4
Concen: 62.776 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion: 65 Resp: 193746
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.0

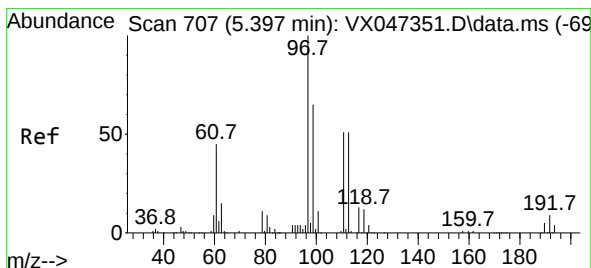
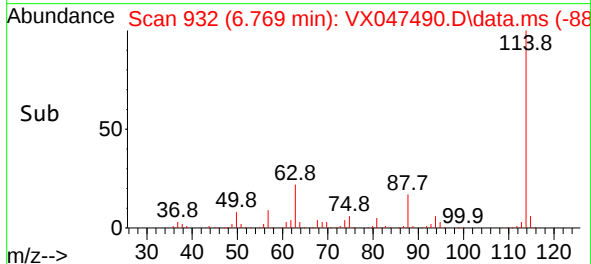
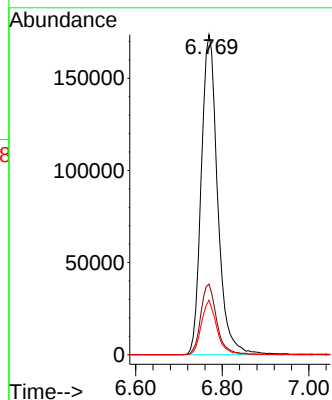
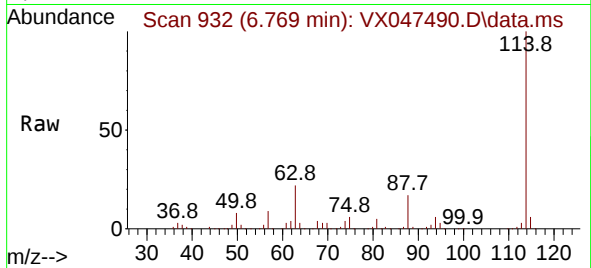




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

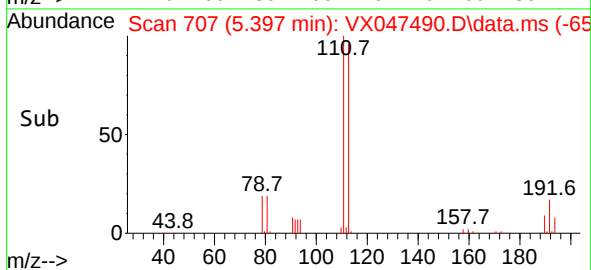
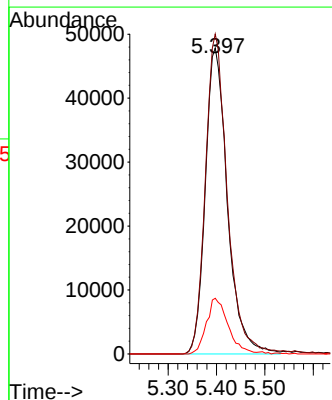
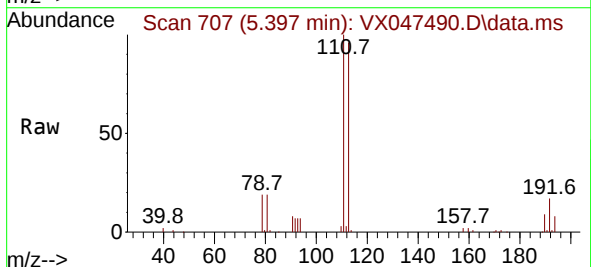
Instrument :
MSVOA_X
ClientSampleId :
TB

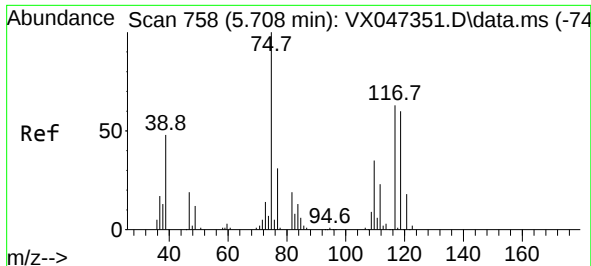
Tgt Ion:114 Resp: 455945
Ion Ratio Lower Upper
114 100
63 22.0 0.0 42.4
88 17.0 0.0 33.0



#35
Dibromofluoromethane
Concen: 51.346 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion:113 Resp: 151940
Ion Ratio Lower Upper
113 100
111 104.0 81.4 122.2
192 17.9 14.1 21.1

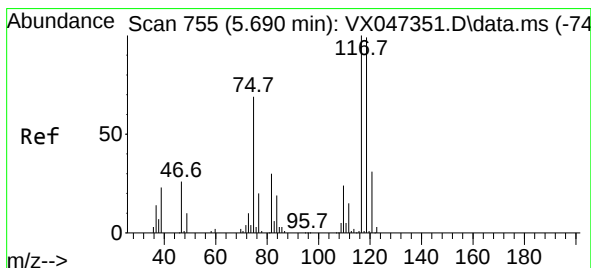
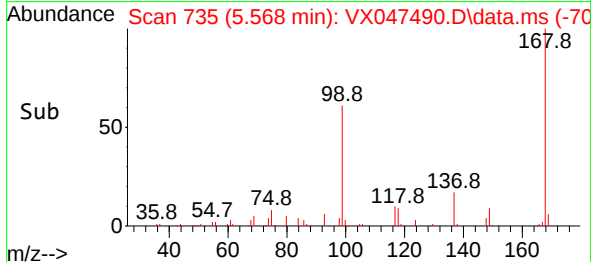
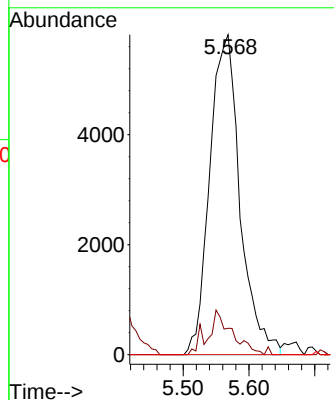
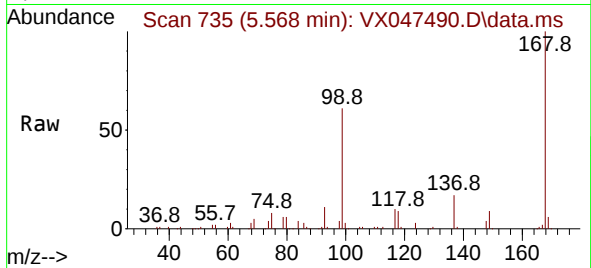




#36
 1,1-Dichloropropene
 Concen: 3.988 ug/l
 RT: 5.568 min Scan# 714
 Delta R.T. -0.140 min
 Lab File: VX047490.D
 Acq: 22 Aug 2025 12:34

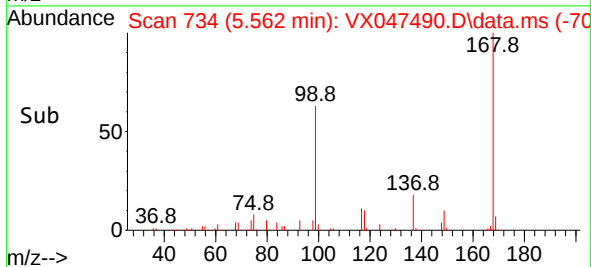
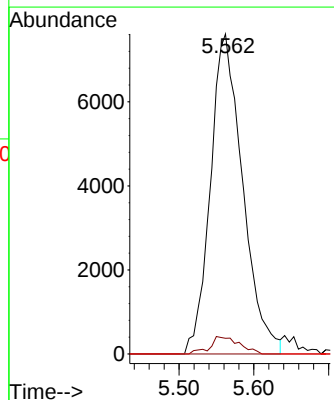
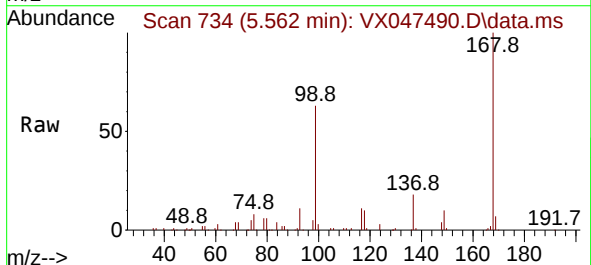
Instrument :
 MSVOA_X
 ClientSampleId :
 TB

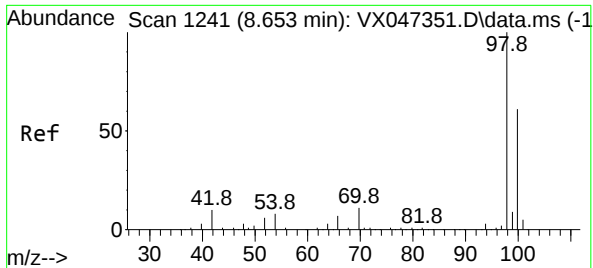
Tgt Ion: 75 Resp: 18629
 Ion Ratio Lower Upper
 75 100
 110 9.3 17.4 52.2#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 4.480 ug/l
 RT: 5.562 min Scan# 734
 Delta R.T. -0.128 min
 Lab File: VX047490.D
 Acq: 22 Aug 2025 12:34

Tgt Ion: 117 Resp: 22868
 Ion Ratio Lower Upper
 117 100
 119 4.9 78.5 117.7#
 121 0.0 24.7 37.1#

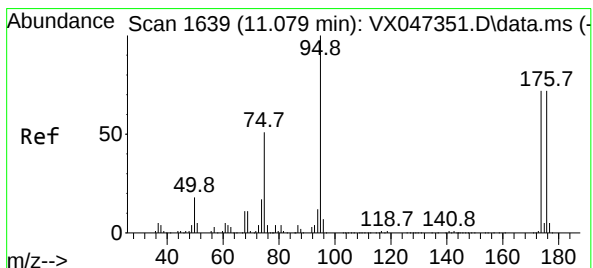
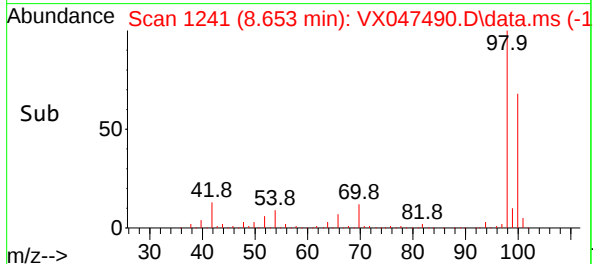
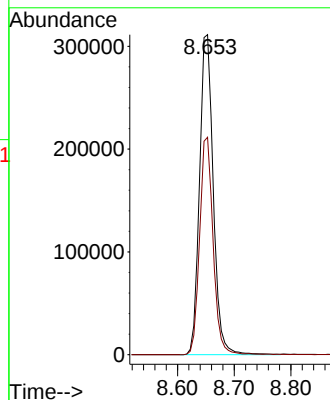
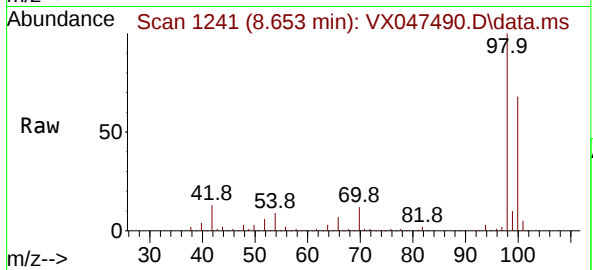




#50
Toluene-d8
Concen: 49.530 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

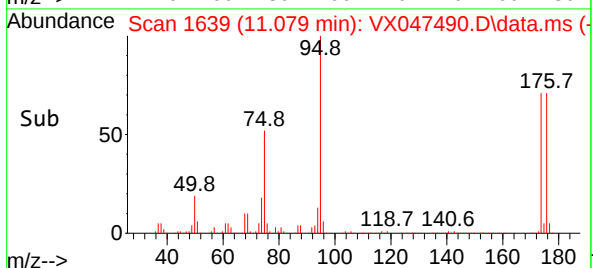
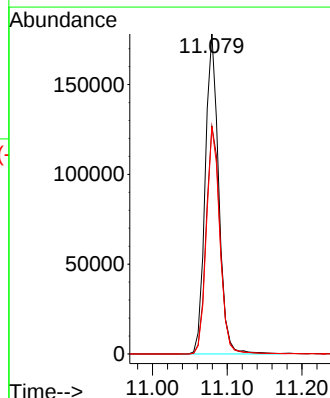
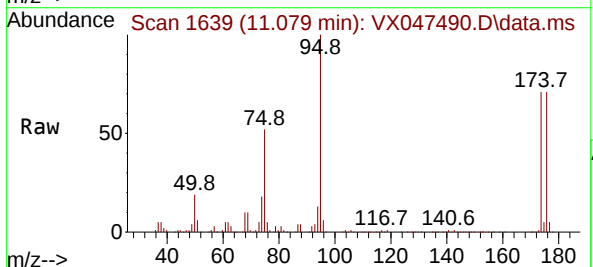
Instrument :
MSVOA_X
ClientSampleId :
TB

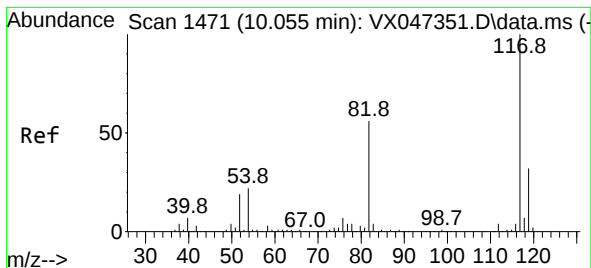
Tgt Ion: 98 Resp: 523869
Ion Ratio Lower Upper
98 100
100 66.7 53.9 80.9



#62
4-Bromofluorobenzene
Concen: 57.050 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion: 95 Resp: 222667
Ion Ratio Lower Upper
95 100
174 73.1 0.0 148.0
176 70.7 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047490.D

Acq: 22 Aug 2025 12:34

Instrument :

MSVOA_X

ClientSampleId :

TB

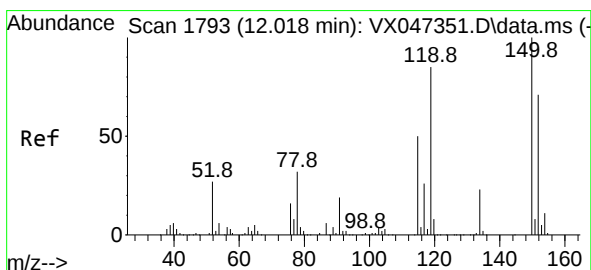
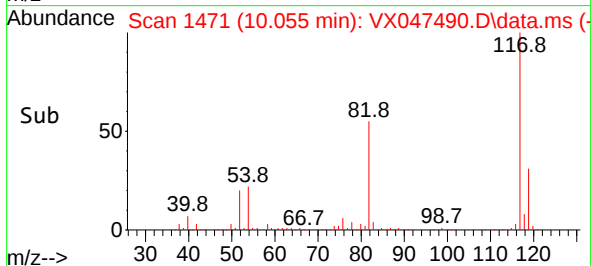
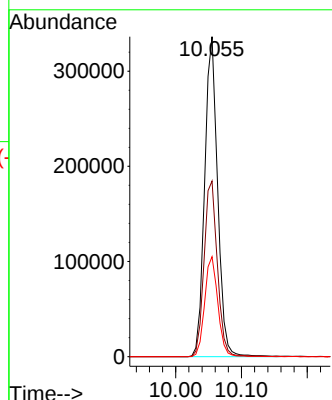
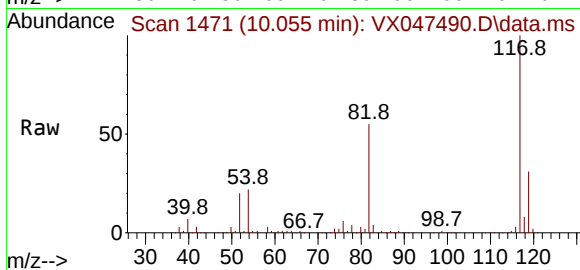
Tgt Ion:117 Resp: 461037

Ion Ratio Lower Upper

117 100

82 54.9 45.0 67.4

119 31.3 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047490.D

Acq: 22 Aug 2025 12:34

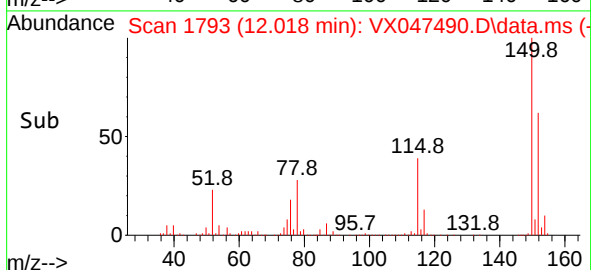
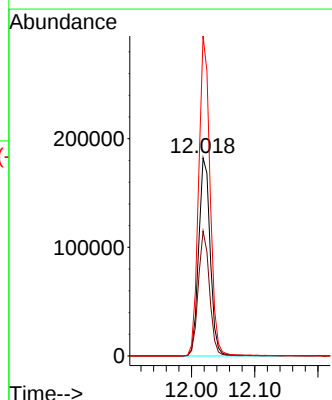
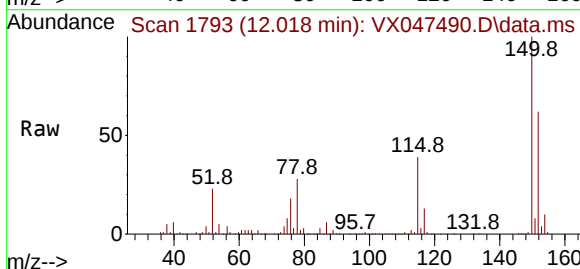
Tgt Ion:152 Resp: 232180

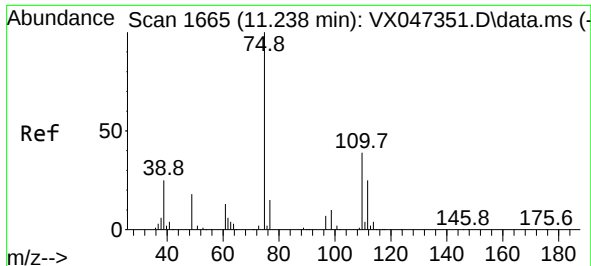
Ion Ratio Lower Upper

152 100

115 61.3 44.6 133.8

150 158.9 0.0 349.8

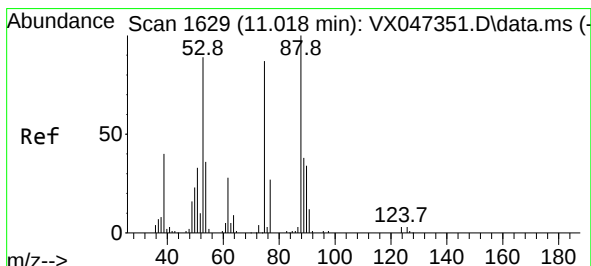
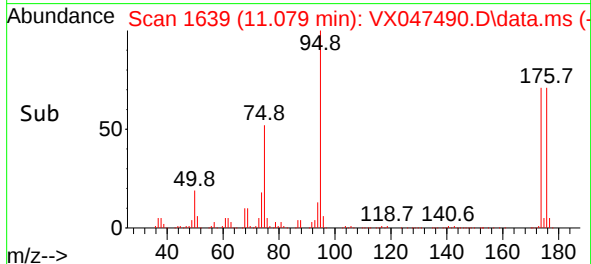
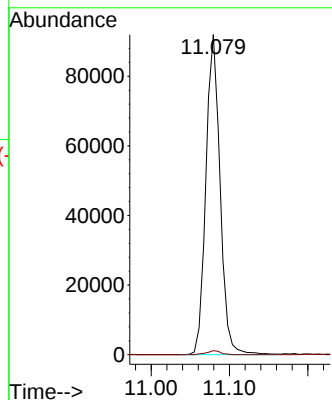
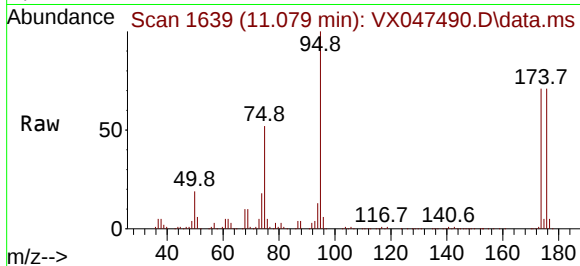




#76
1,2,3-Trichloropropane
Concen: 27.130 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

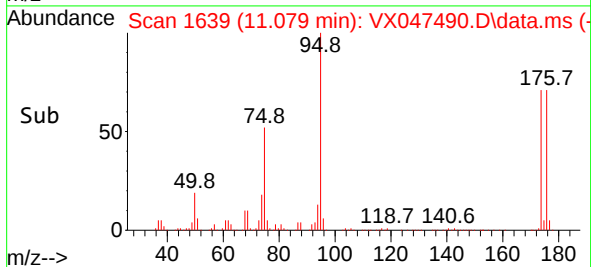
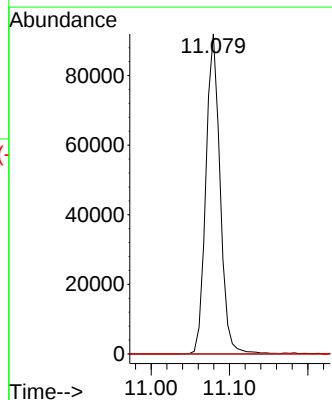
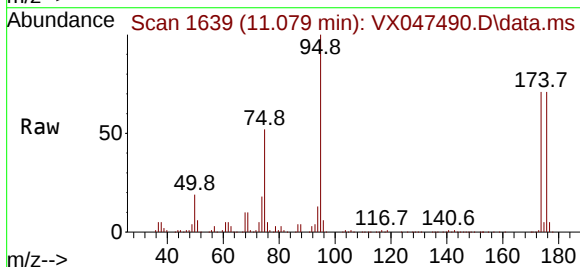
Instrument :
MSVOA_X
ClientSampleId :
TB

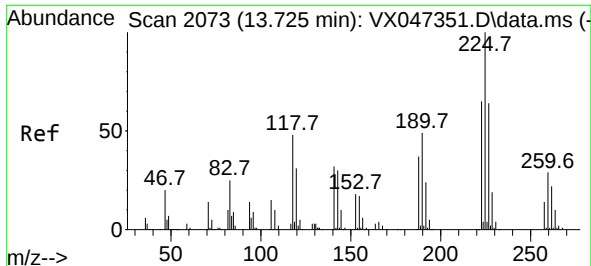
Tgt Ion: 75 Resp: 115533
Ion Ratio Lower Upper
75 100
77 1.2 19.4 58.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 107.245 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion: 75 Resp: 115533
Ion Ratio Lower Upper
75 100
53 0.0 85.2 127.8#
89 0.0 36.7 55.1#

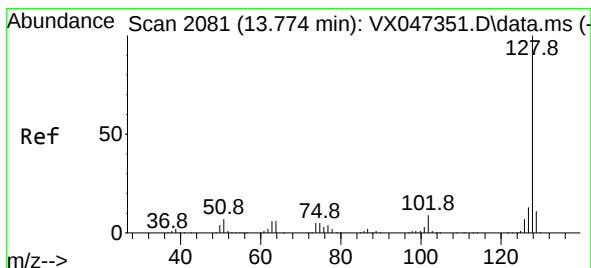
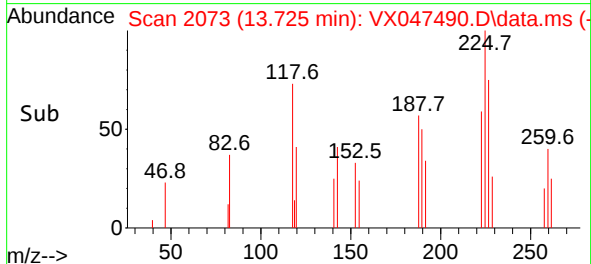
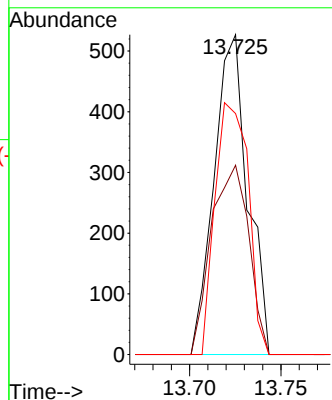
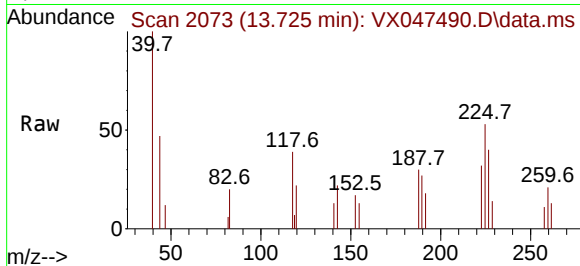




#94
Hexachlorobutadiene
Concen: 0.351 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:	225	Resp:	674
Ion	Ratio	Lower	Upper
225	100		
223	66.2	32.2	96.6
227	78.0	31.6	95.0



#95
Naphthalene
Concen: 0.390 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX047490.D
Acq: 22 Aug 2025 12:34

Tgt Ion:	128	Resp:	6005
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.1	15.1
129	9.4	8.7	13.1

