

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047469.D
 Acq On : 21 Aug 2025 14:49
 Operator : JC/MD
 Sample : Q2900-07RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-11B-081825RE

Quant Time: Aug 22 03:47:41 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)

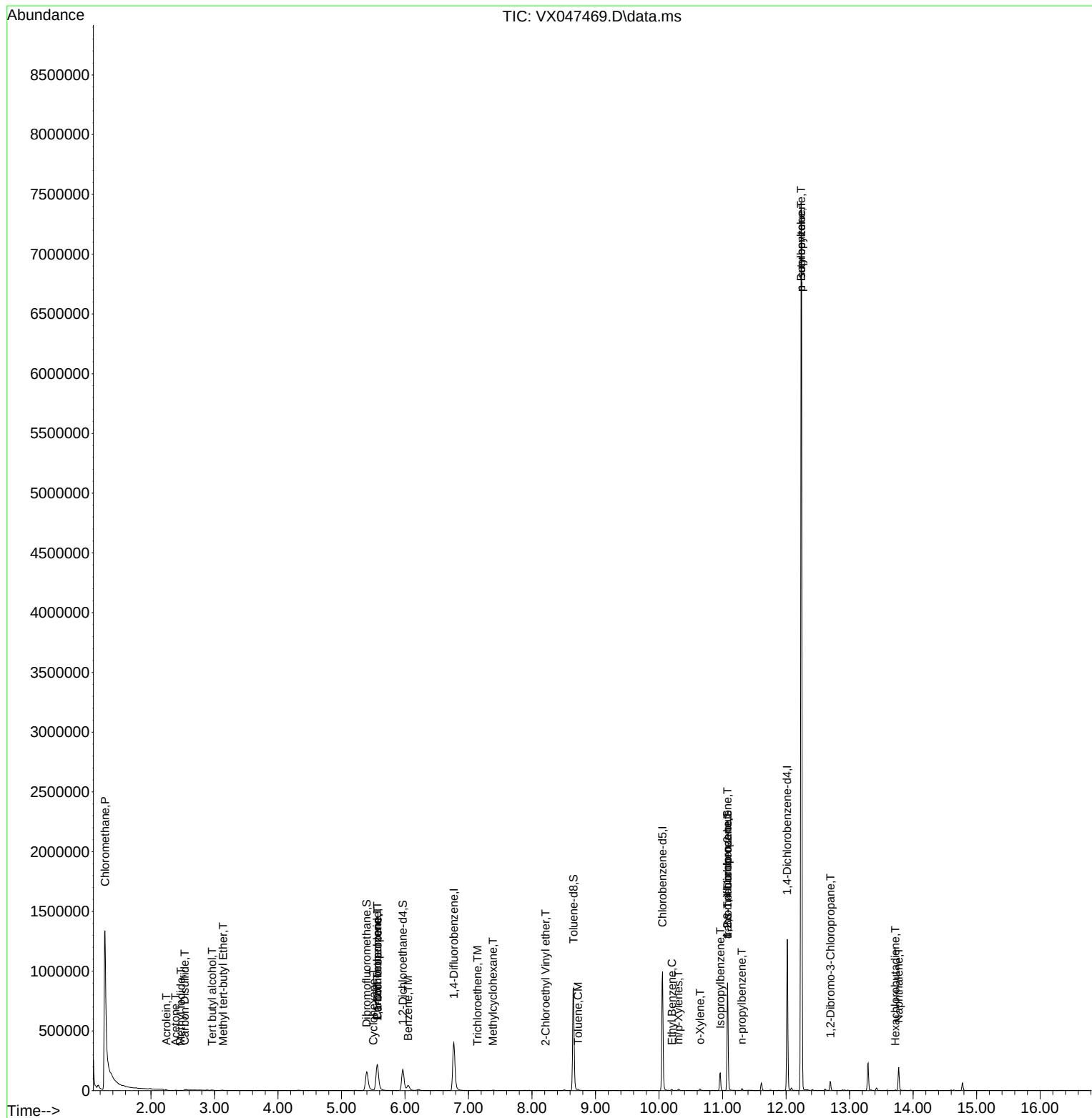
Internal Standards						
1) Pentafluorobenzene	5.562	168	220177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	441647	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	451408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	247196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	187239	60.763	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 121.520%#			
35) Dibromofluoromethane	5.397	113	150434	52.483	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.960%			
50) Toluene-d8	8.653	98	526558	51.396	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.800%			
62) 4-Bromofluorobenzene	11.079	95	235524	62.298	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 124.600%#			
Target Compounds					Qvalue	
3) Chloromethane	1.276	50	55550	22.001	ug/l #	42
10) Methyl Iodide	2.471	142	1171	0.251	ug/l #	93
11) Tert butyl alcohol	2.965	59	1601	5.972	ug/l	98
13) Acrolein	2.239	56	177	0.313	ug/l #	1
16) Acetone	2.386	43	3087	2.665	ug/l	96
17) Carbon Disulfide	2.532	76	16736	2.001	ug/l	96
19) Methyl tert-butyl Ether	3.136	73	2212	0.262	ug/l #	61
31) Cyclohexane	5.501	56	3097	0.625	ug/l #	84
36) 1,1-Dichloropropene	5.568	75	17765	3.926	ug/l #	51
38) Carbon Tetrachloride	5.562	117	22511	4.553	ug/l #	15
39) Methylcyclohexane	7.385	83	1555	0.276	ug/l	92
40) Benzene	6.050	78	52117	3.848	ug/l	99
44) Trichloroethene	7.141	130	909	0.262	ug/l	88
52) Toluene	8.726	92	2750	0.329	ug/l	86
58) 2-Chloroethyl Vinyl ether	8.214	63	23	8.365	ug/l #	46
67) Ethyl Benzene	10.201	91	5239	0.284	ug/l	99
68) m/p-Xylenes	10.305	106	2831	0.411	ug/l	94
69) o-Xylene	10.646	106	3078	0.465	ug/l	97
73) Isopropylbenzene	10.963	105	77364	3.999	ug/l	100
76) 1,2,3-Trichloropropane	11.079	75	123339	27.204	ug/l #	38
78) n-propylbenzene	11.305	91	9616	0.416	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.079	75	123339	107.515	ug/l #	7
86) p-Isopropyltoluene	12.238	119	156470	9.395	ug/l #	1
89) n-Butylbenzene	12.238	91	501897	32.400	ug/l #	42
92) 1,2-Dibromo-3-Chloropr...	12.701	75	537	0.489	ug/l #	3
94) Hexachlorobutadiene	13.719	225	743	0.364	ug/l	93
95) Naphthalene	13.774	128	122181	7.446	ug/l	99

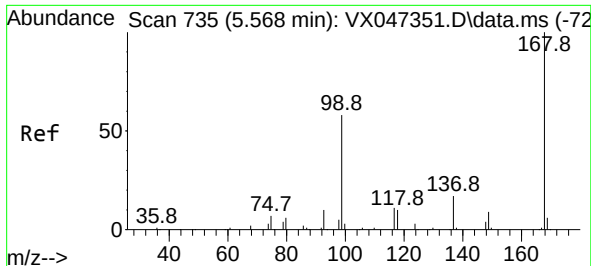
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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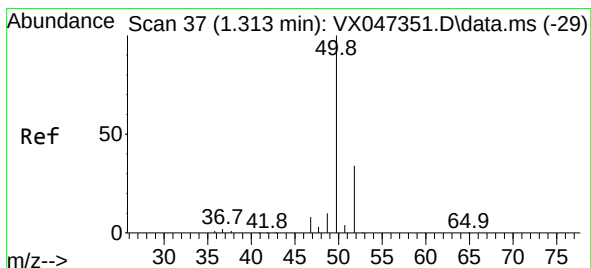
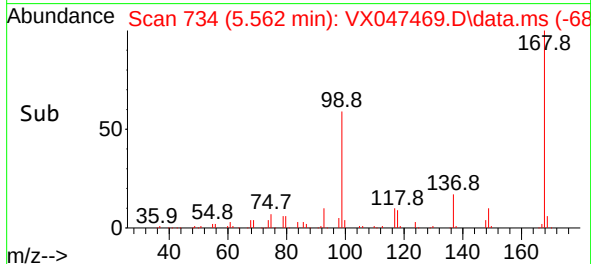
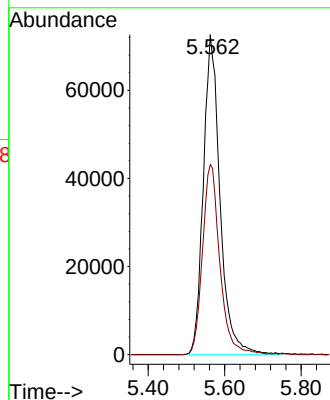
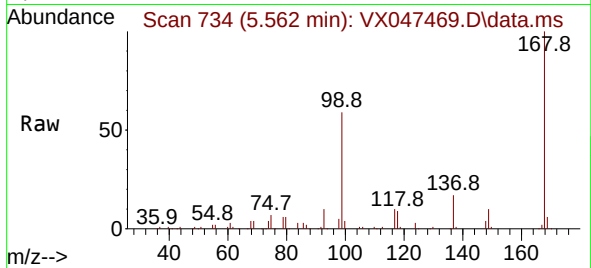




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

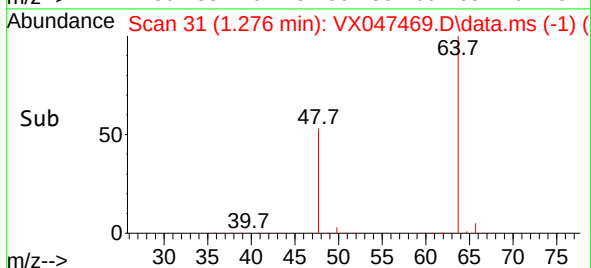
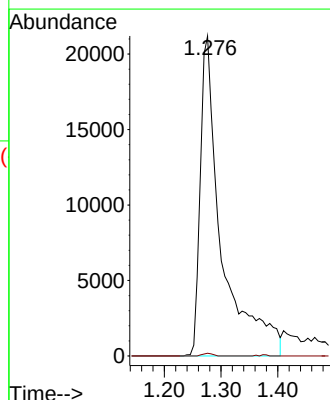
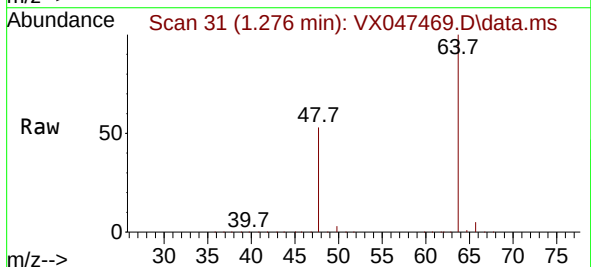
Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

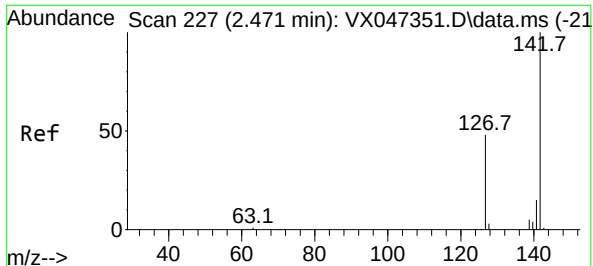
Tgt Ion:168 Resp: 220177
Ion Ratio Lower Upper
168 100
99 59.4 47.9 71.9



#3
Chloromethane
Concen: 22.001 ug/l
RT: 1.276 min Scan# 31
Delta R.T. -0.036 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

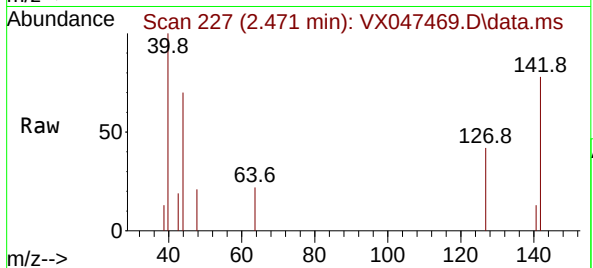
Tgt Ion: 50 Resp: 55550
Ion Ratio Lower Upper
50 100
52 0.8 27.0 40.4#



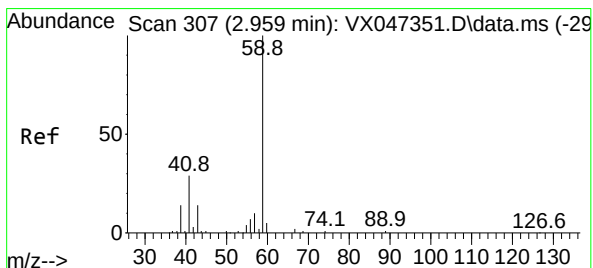
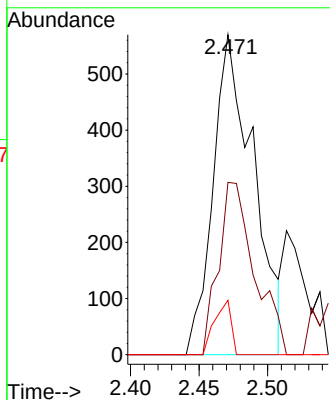
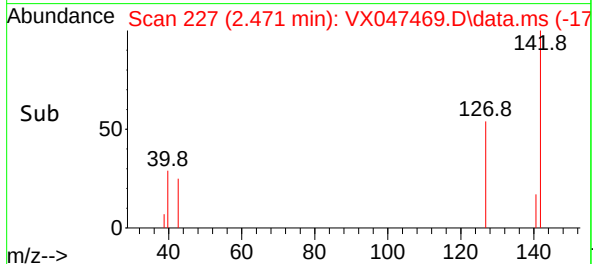


#10
Methyl Iodide
Concen: 0.251 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

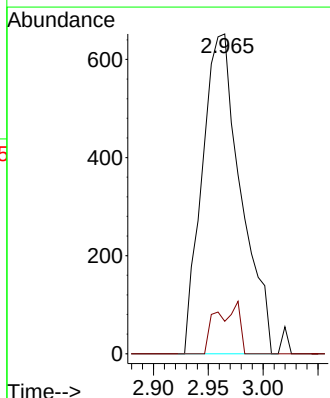
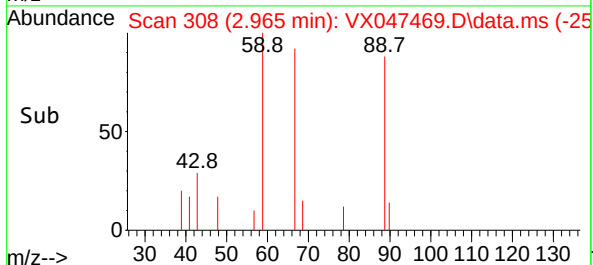
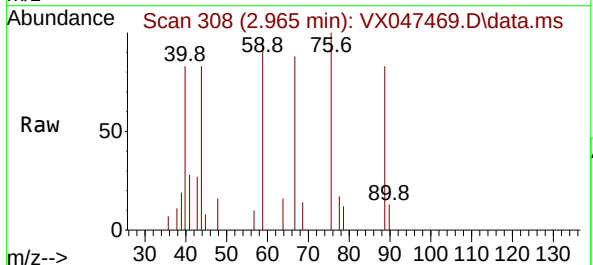


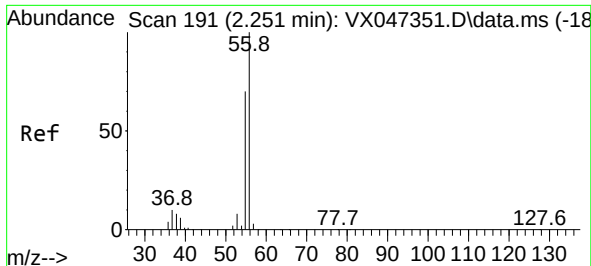
Tgt Ion:142 Resp: 1171
Ion Ratio Lower Upper
142 100
127 48.0 36.1 54.1
141 7.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 5.972 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.006 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion: 59 Resp: 1601
Ion Ratio Lower Upper
59 100
57 9.6 8.3 12.5

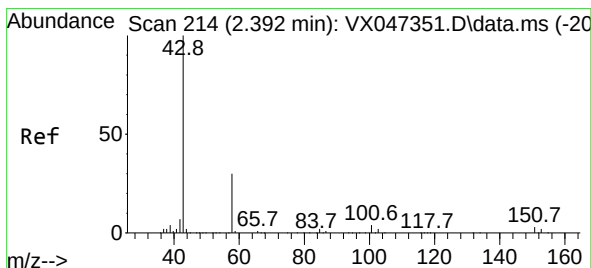
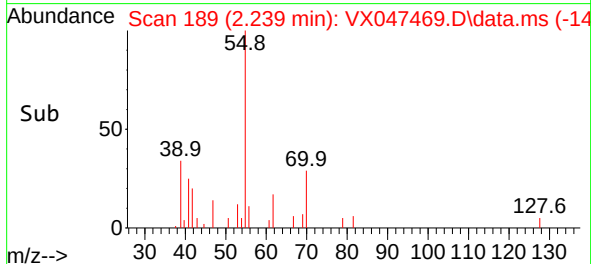
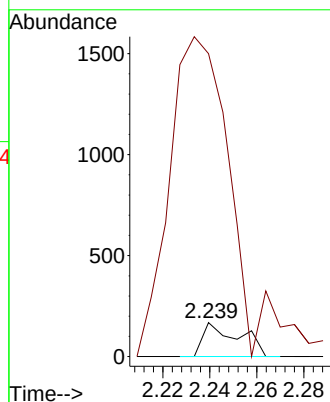
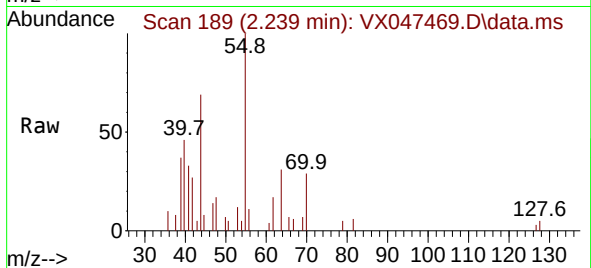




#13
Acrolein
Concen: 0.313 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

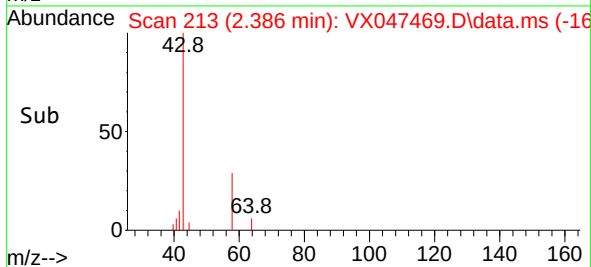
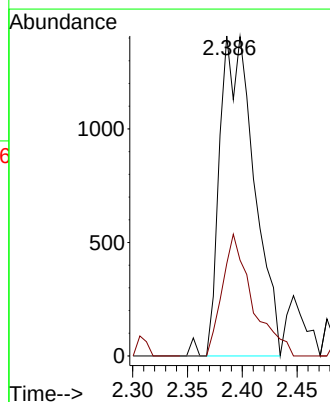
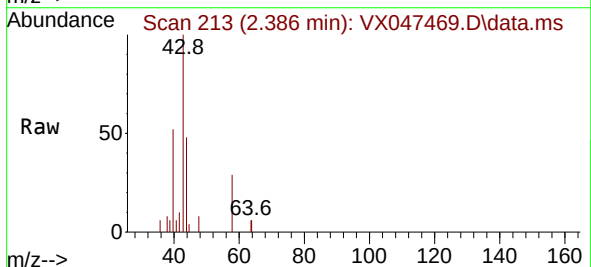
Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

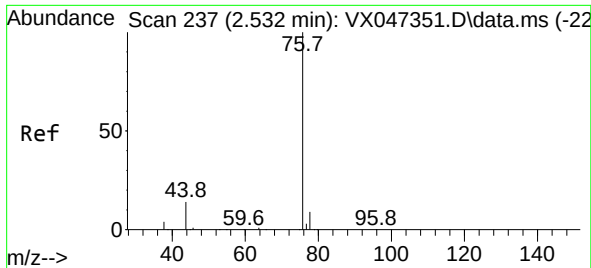
Tgt Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 1697.2 55.5 83.3#



#16
Acetone
Concen: 2.665 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion: 43 Resp: 3087
Ion Ratio Lower Upper
43 100
58 28.9 24.8 37.2





#17

Carbon Disulfide

Concen: 2.001 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047469.D

Acq: 21 Aug 2025 14:49

Instrument :

MSVOA_X

ClientSampleId :

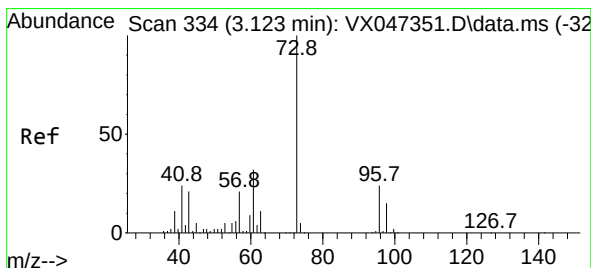
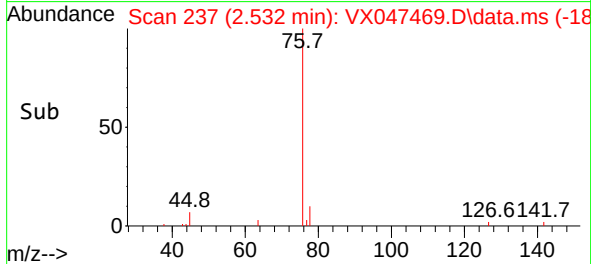
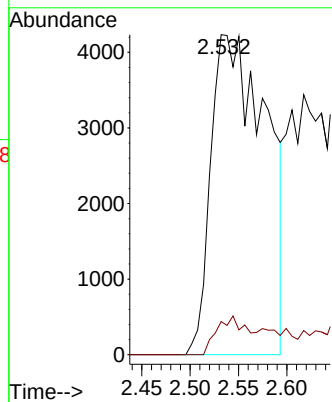
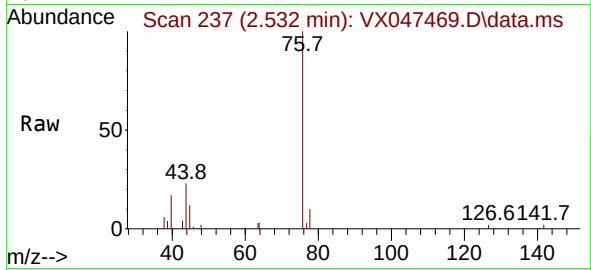
MW-11B-081825RE

Tgt Ion: 76 Resp: 16736

Ion Ratio Lower Upper

76 100

78 10.4 7.2 10.8



#19

Methyl tert-butyl Ether

Concen: 0.262 ug/l

RT: 3.136 min Scan# 336

Delta R.T. 0.012 min

Lab File: VX047469.D

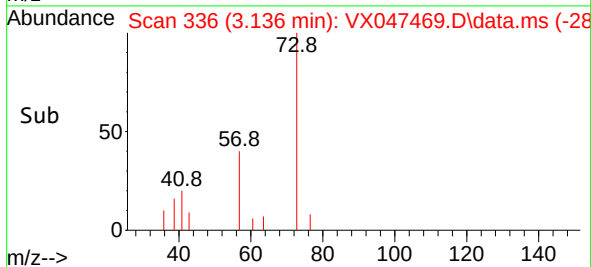
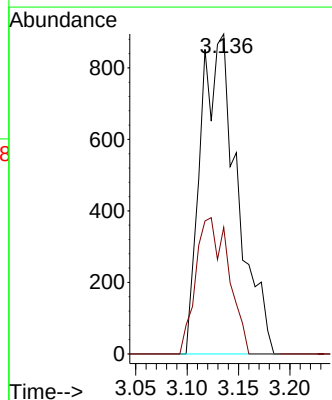
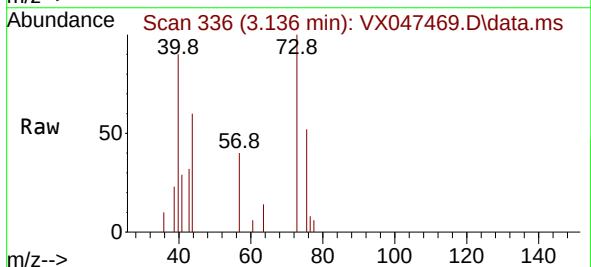
Acq: 21 Aug 2025 14:49

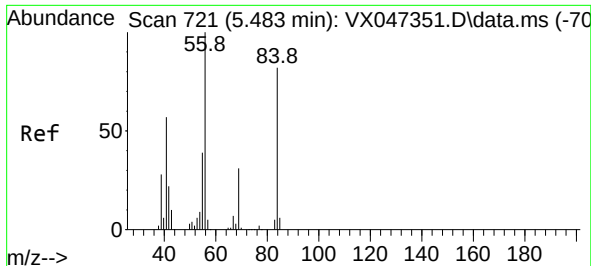
Tgt Ion: 73 Resp: 2212

Ion Ratio Lower Upper

73 100

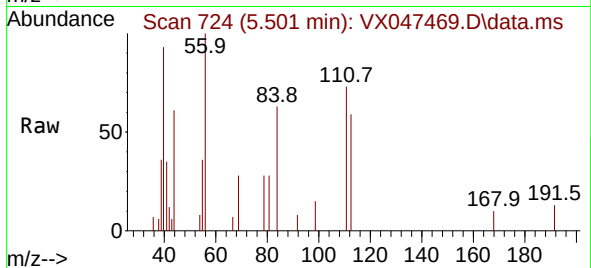
57 39.6 17.0 25.6#



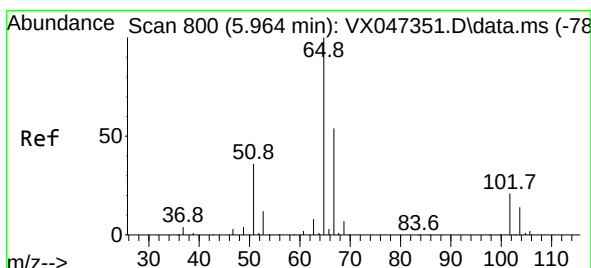
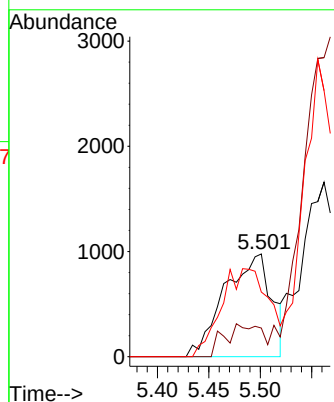
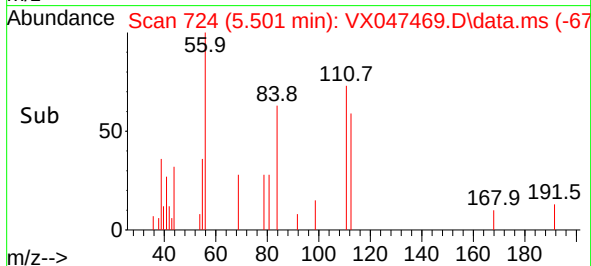


#31
Cyclohexane
Concen: 0.625 ug/l
RT: 5.501 min Scan# 721
Delta R.T. 0.018 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

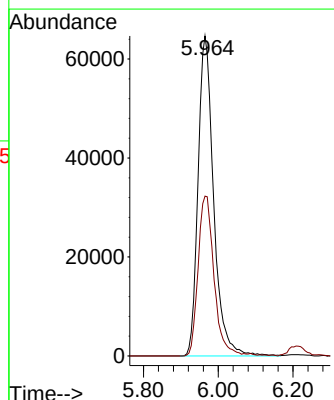
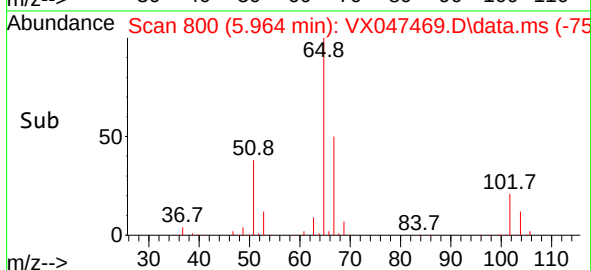
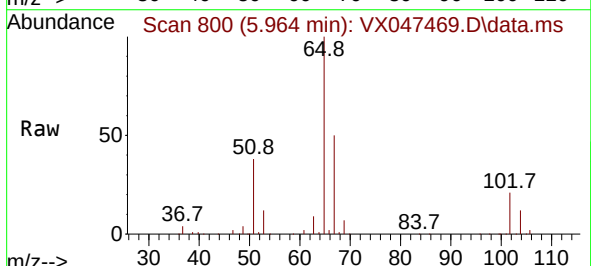


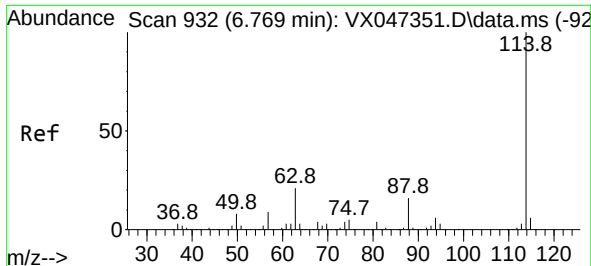
Tgt Ion: 56 Resp: 3097
Ion Ratio Lower Upper
56 100
69 27.9 24.3 36.5
84 62.9 65.3 97.9#



#33
1,2-Dichloroethane-d4
Concen: 60.763 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion: 65 Resp: 187239
Ion Ratio Lower Upper
65 100
67 51.0 0.0 106.0

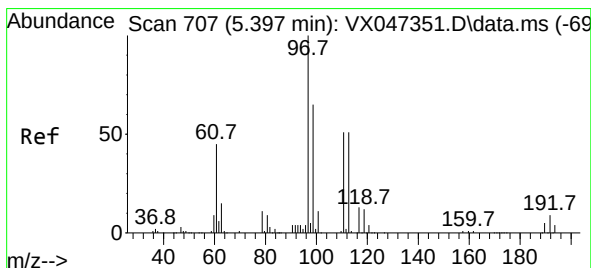
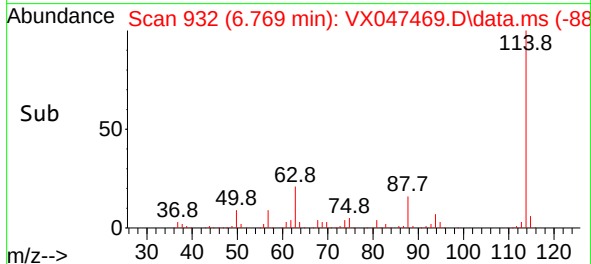
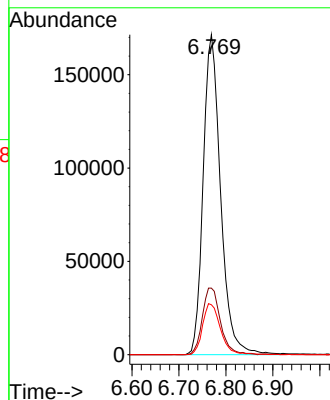
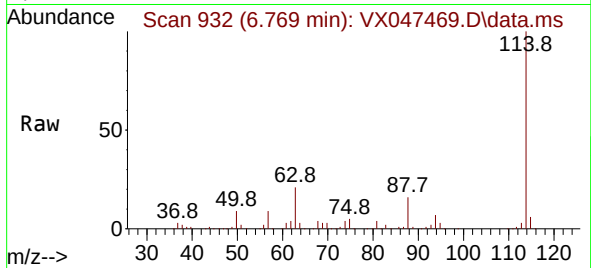




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

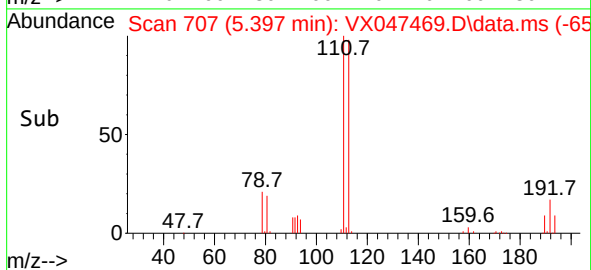
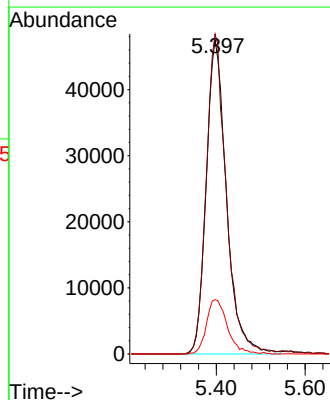
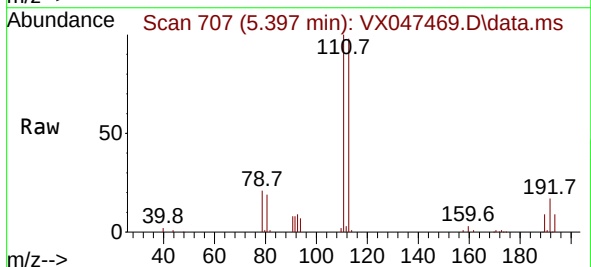
Instrument :
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ClientSampleId :
MW-11B-081825RE

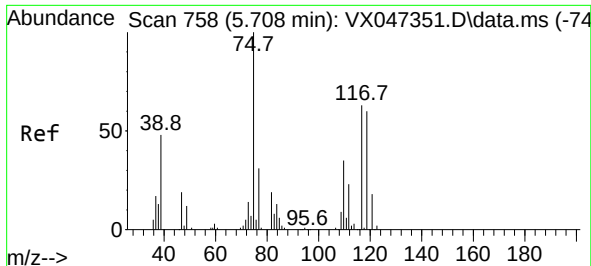
Tgt Ion:114 Resp: 441647
Ion Ratio Lower Upper
114 100
63 20.8 0.0 42.4
88 15.6 0.0 33.0



#35
Dibromofluoromethane
Concen: 52.483 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion:113 Resp: 150434
Ion Ratio Lower Upper
113 100
111 100.9 81.4 122.2
192 17.9 14.1 21.1





#36

1,1-Dichloropropene

Concen: 3.926 ug/l

RT: 5.568 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX047469.D

Acq: 21 Aug 2025 14:49

Instrument :

MSVOA_X

ClientSampleId :

MW-11B-081825RE

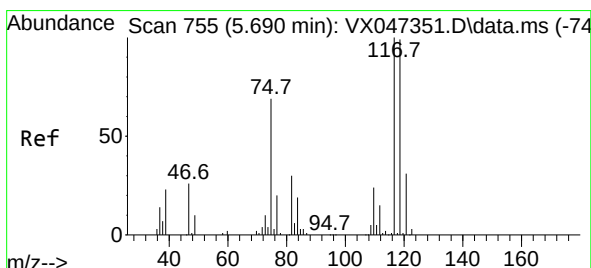
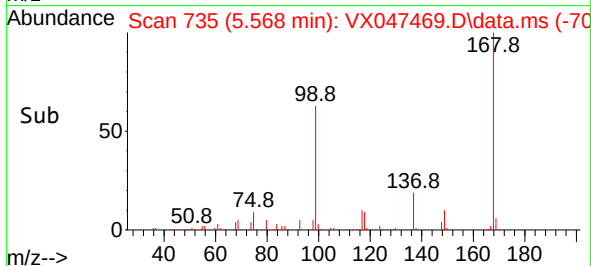
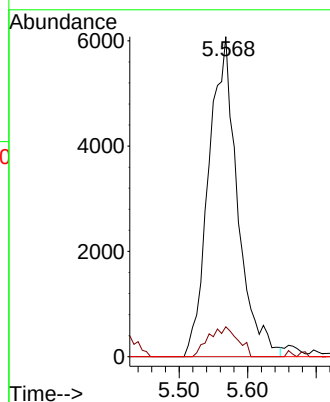
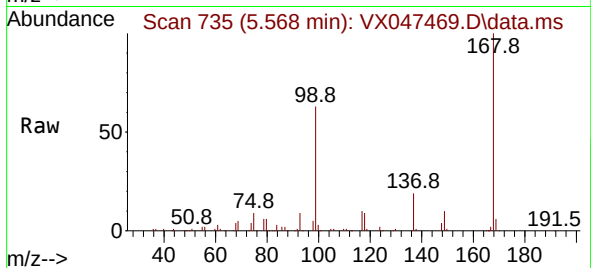
Tgt Ion: 75 Resp: 17765

Ion Ratio Lower Upper

75 100

110 9.4 17.4 52.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.553 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.128 min

Lab File: VX047469.D

Acq: 21 Aug 2025 14:49

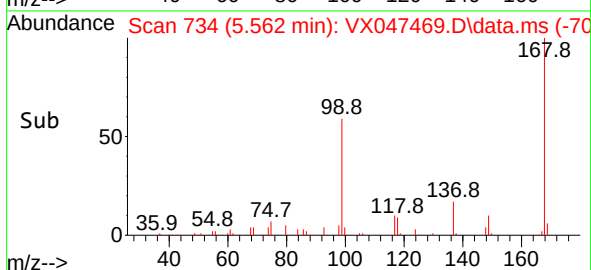
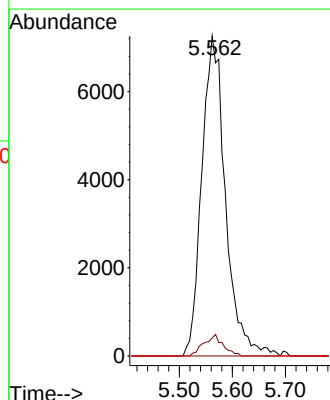
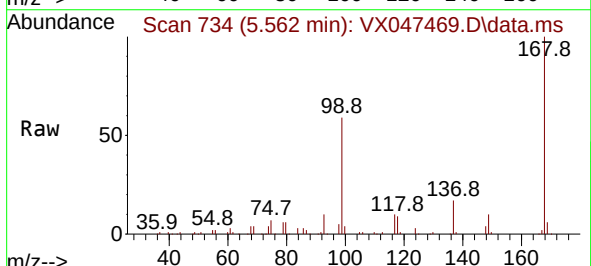
Tgt Ion: 117 Resp: 22511

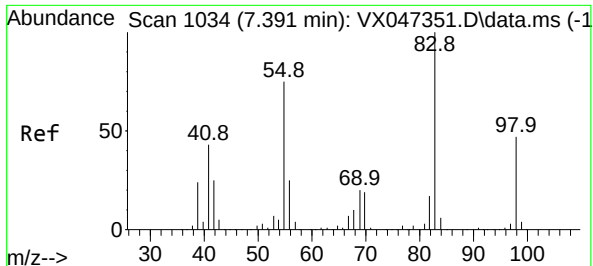
Ion Ratio Lower Upper

117 100

119 5.7 78.5 117.7#

121 0.0 24.7 37.1#





#39

Methylcyclohexane

Concen: 0.276 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047469.D

Acq: 21 Aug 2025 14:49

Instrument :

MSVOA_X

ClientSampleId :

MW-11B-081825RE

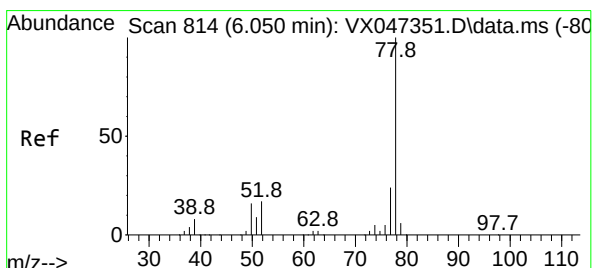
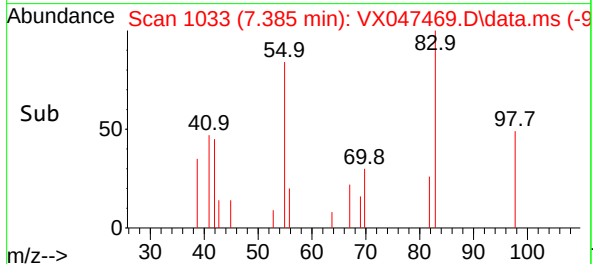
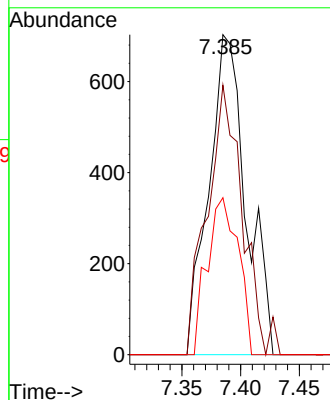
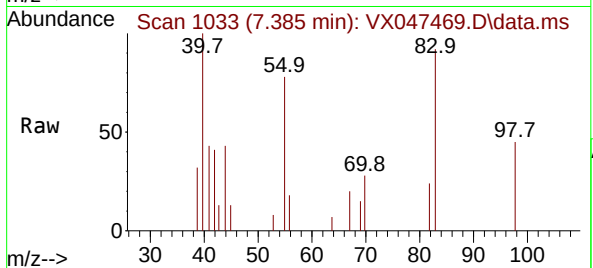
Tgt Ion: 83 Resp: 1555

Ion Ratio Lower Upper

83 100

55 84.2 60.0 90.0

98 49.1 37.2 55.8



#40

Benzene

Concen: 3.848 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX047469.D

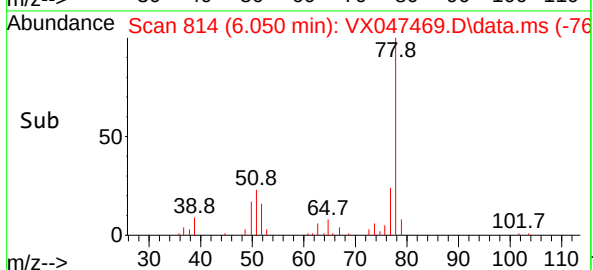
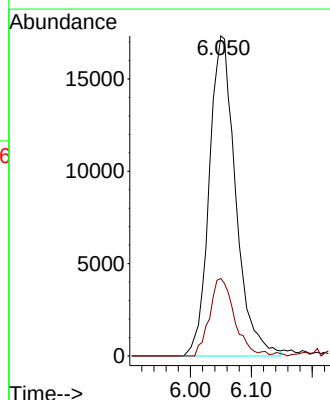
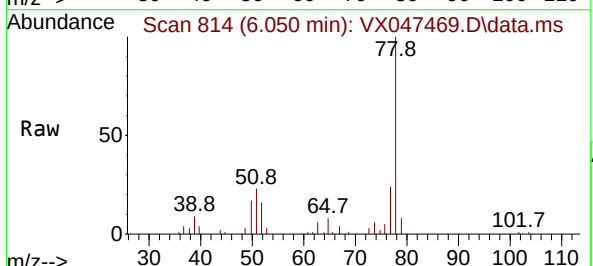
Acq: 21 Aug 2025 14:49

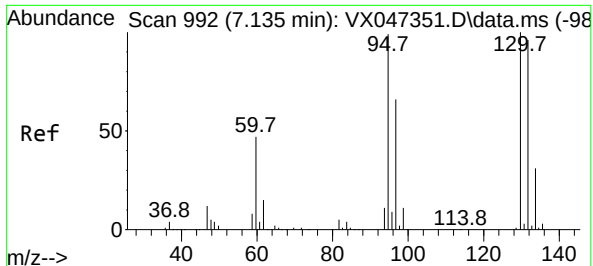
Tgt Ion: 78 Resp: 52117

Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.4

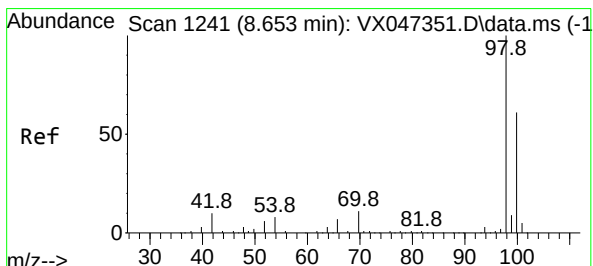
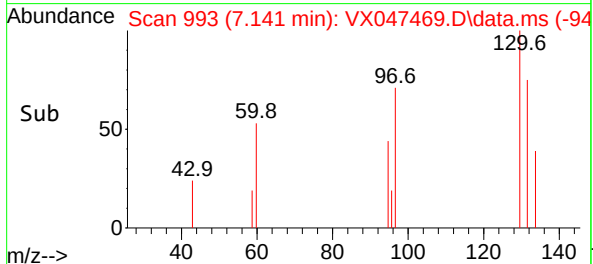
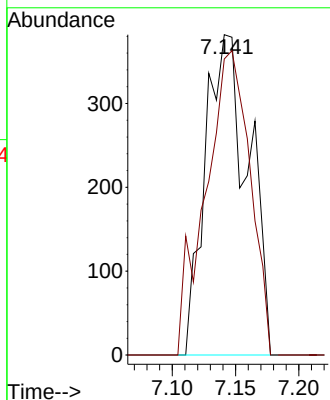
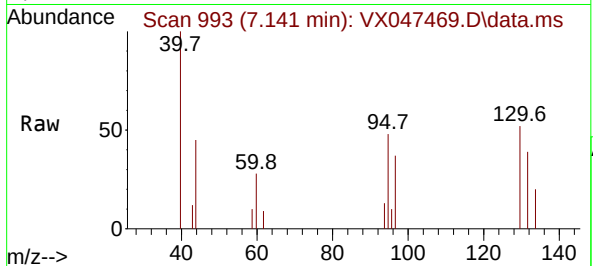




#44
 Trichloroethene
 Concen: 0.262 ug/l
 RT: 7.141 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VX047469.D
 Acq: 21 Aug 2025 14:49

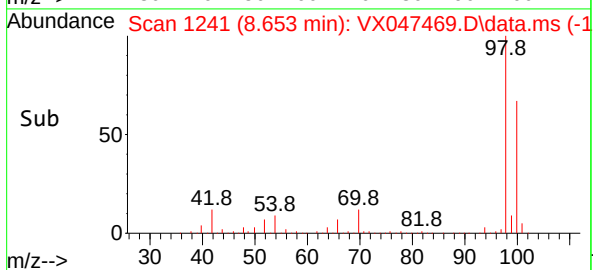
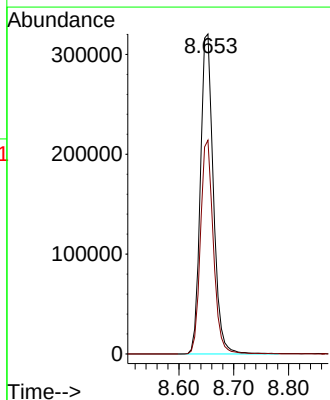
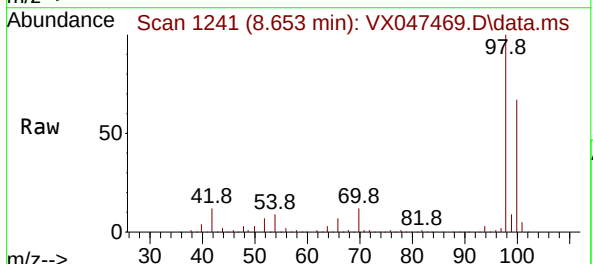
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-11B-081825RE

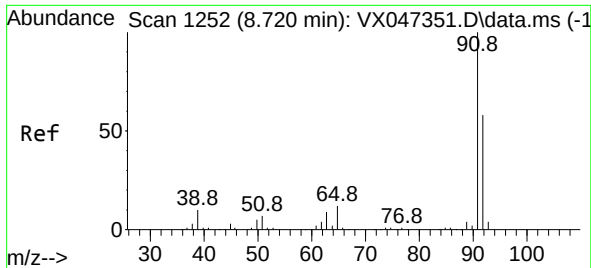
Tgt Ion:130 Resp: 909
 Ion Ratio Lower Upper
 130 100
 95 111.5 0.0 198.6



#50
 Toluene-d8
 Concen: 51.396 ug/l
 RT: 8.653 min Scan# 1241
 Delta R.T. 0.000 min
 Lab File: VX047469.D
 Acq: 21 Aug 2025 14:49

Tgt Ion: 98 Resp: 526558
 Ion Ratio Lower Upper
 98 100
 100 66.3 53.9 80.9

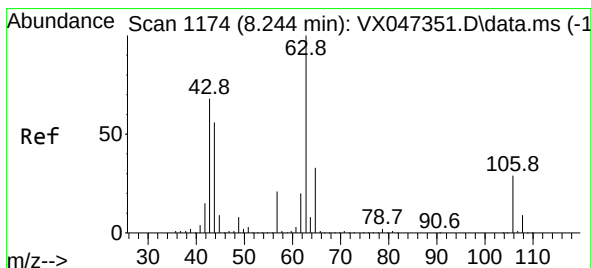
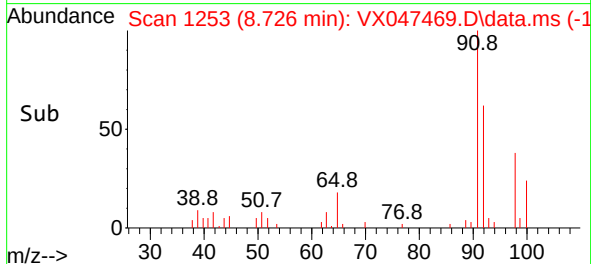
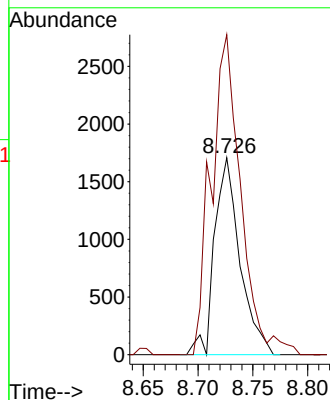
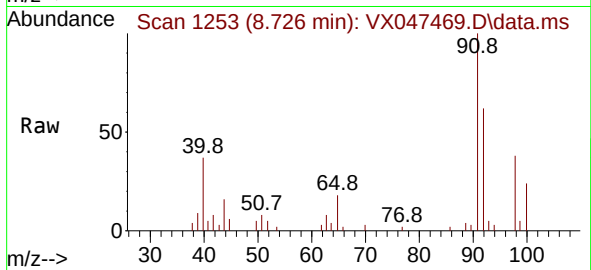




#52
Toluene
Concen: 0.329 ug/l
RT: 8.726 min Scan# 1169
Delta R.T. 0.006 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

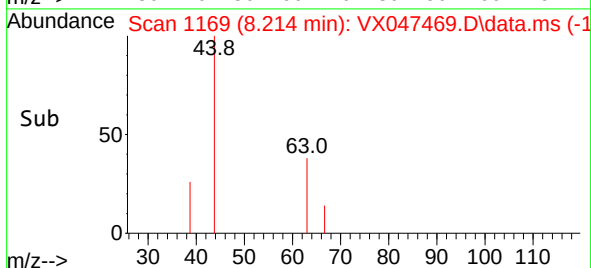
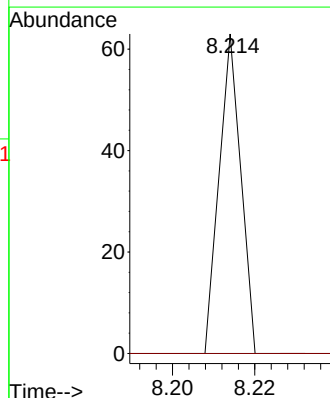
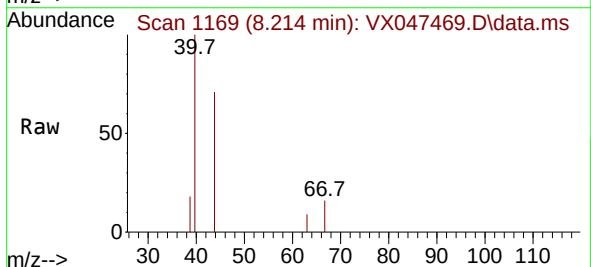
Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

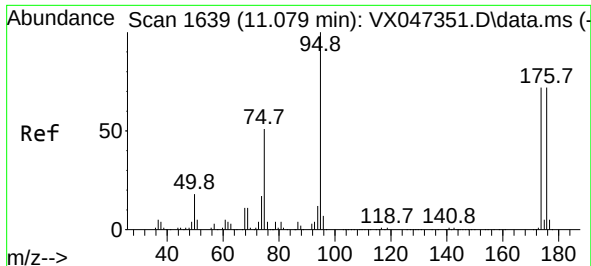
Tgt Ion: 92 Resp: 2750
Ion Ratio Lower Upper
92 100
91 190.0 136.3 204.5



#58
2-Chloroethyl Vinyl ether
Concen: 8.365 ug/l
RT: 8.214 min Scan# 1169
Delta R.T. -0.030 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion: 63 Resp: 23
Ion Ratio Lower Upper
63 100
106 0.0 22.8 34.2#





#62

4-Bromofluorobenzene

Concen: 62.298 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047469.D

Acq: 21 Aug 2025 14:49

Instrument :

MSVOA_X

ClientSampleId :

MW-11B-081825RE

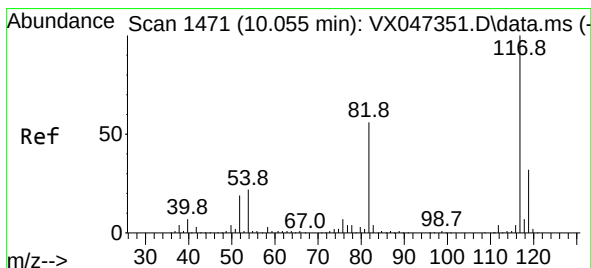
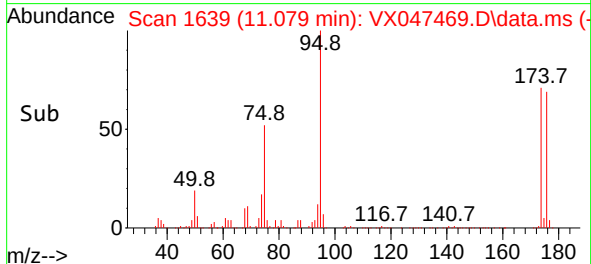
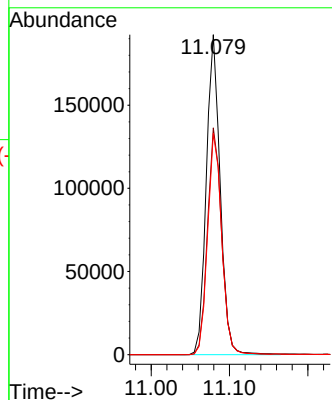
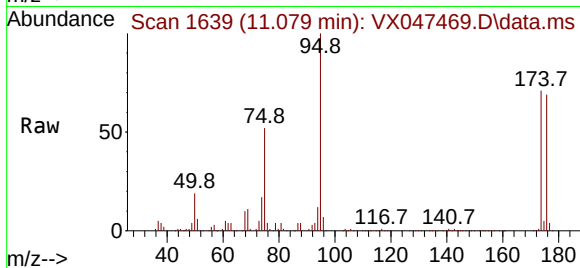
Tgt Ion: 95 Resp: 235524

Ion Ratio Lower Upper

95 100

174 72.6 0.0 148.0

176 70.2 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: VX047469.D

Acq: 21 Aug 2025 14:49

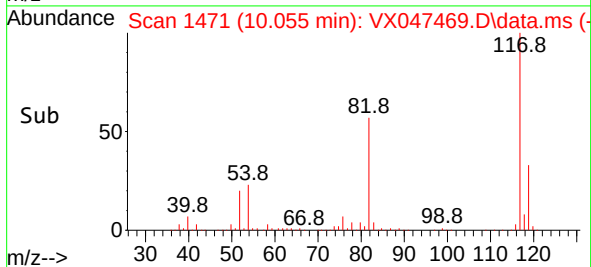
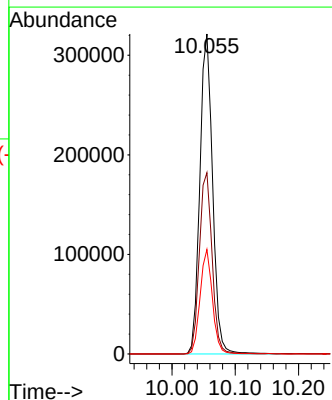
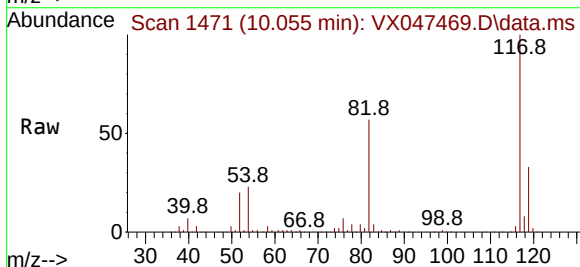
Tgt Ion: 117 Resp: 451408

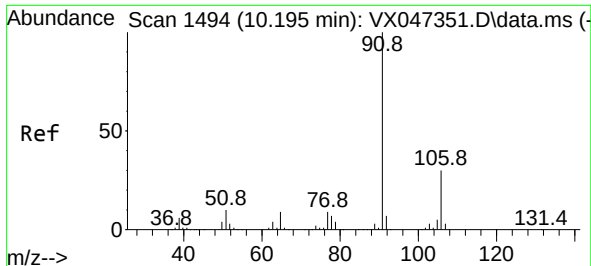
Ion Ratio Lower Upper

117 100

82 56.6 45.0 67.4

119 32.7 25.8 38.8





#67

Ethyl Benzene

Concen: 0.284 ug/l

RT: 10.201 min Scan# 1495

Delta R.T. 0.006 min

Lab File: VX047469.D

Acq: 21 Aug 2025 14:49

Instrument :

MSVOA_X

ClientSampleId :

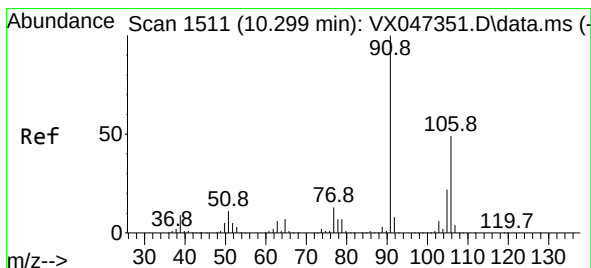
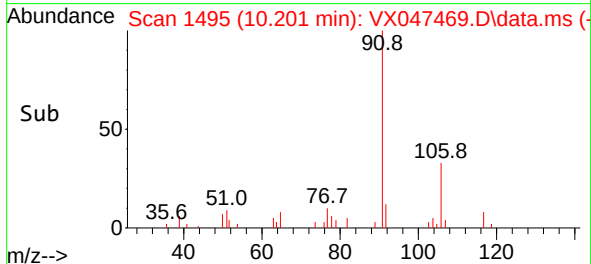
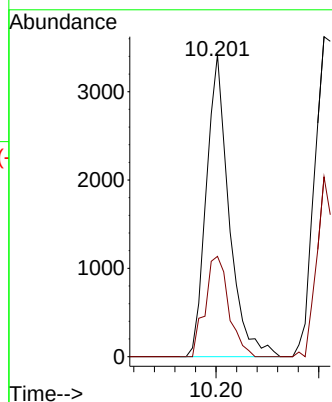
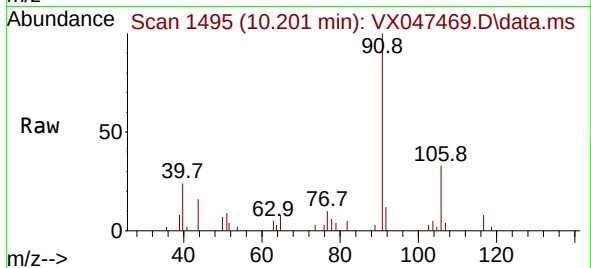
MW-11B-081825RE

Tgt Ion: 91 Resp: 5239

Ion Ratio Lower Upper

91 100

106 29.8 24.4 36.6



#68

m/p-Xylenes

Concen: 0.411 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX047469.D

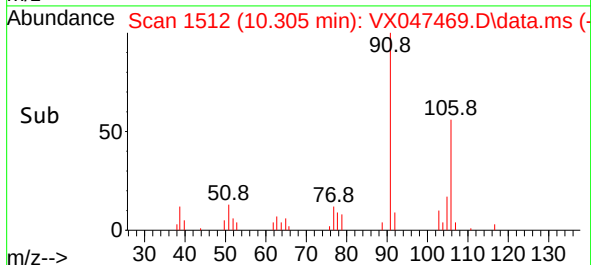
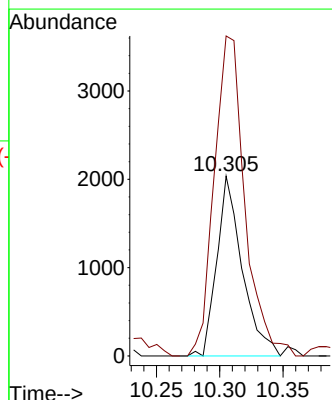
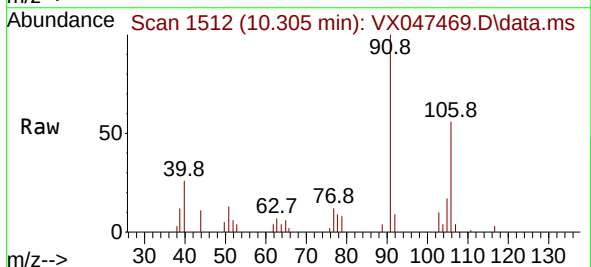
Acq: 21 Aug 2025 14:49

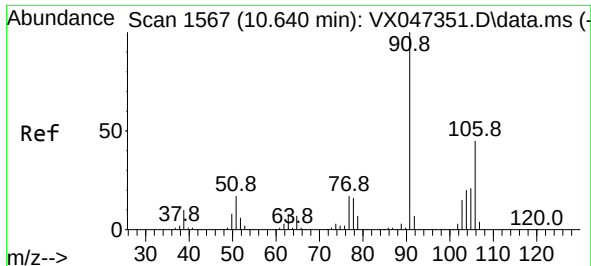
Tgt Ion: 106 Resp: 2831

Ion Ratio Lower Upper

106 100

91 215.1 164.7 247.1

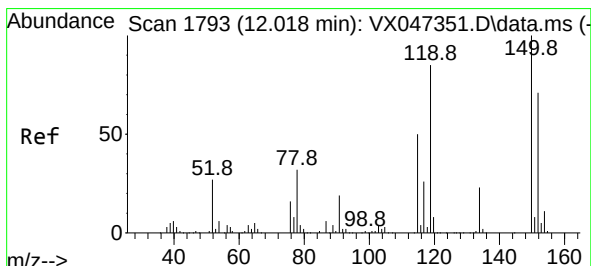
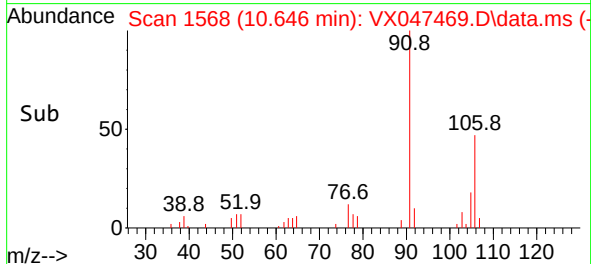
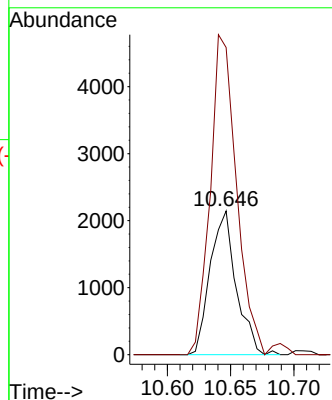
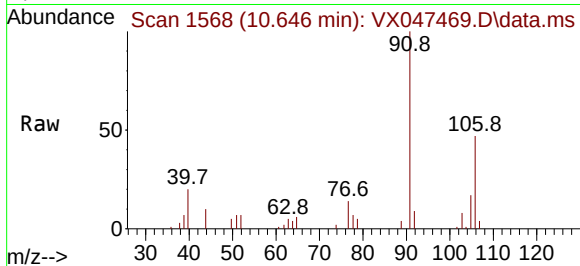




#69
o-Xylene
Concen: 0.465 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

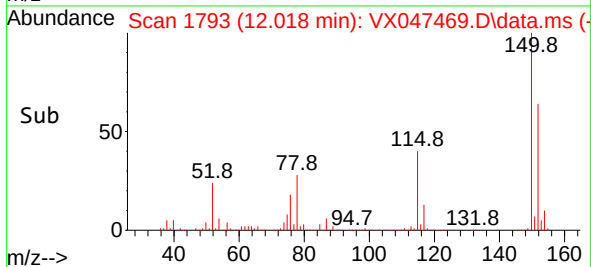
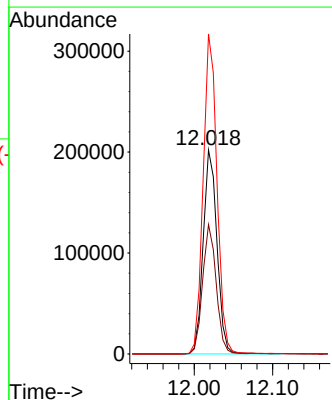
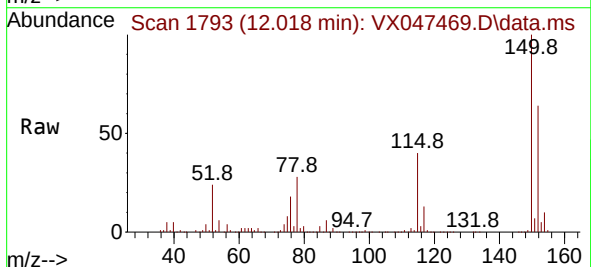
Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

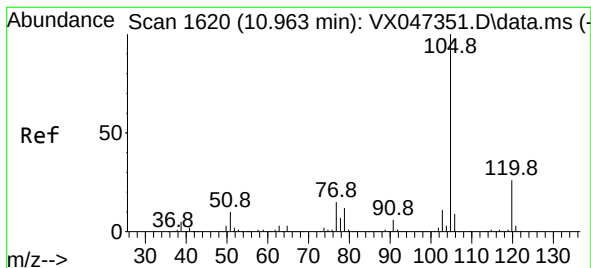
Tgt Ion:106 Resp: 3078
Ion Ratio Lower Upper
106 100
91 225.7 110.6 331.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion:152 Resp: 247196
Ion Ratio Lower Upper
152 100
115 62.6 44.6 133.8
150 157.8 0.0 349.8





#73

Isopropylbenzene

Concen: 3.999 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047469.D

Acq: 21 Aug 2025 14:49

Instrument :

MSVOA_X

ClientSampleId :

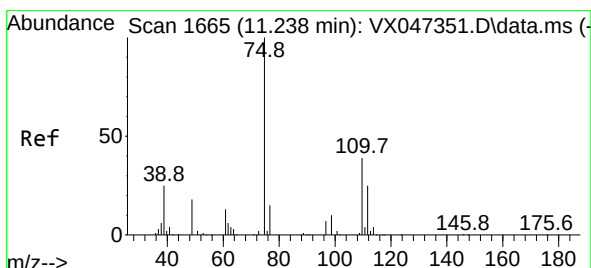
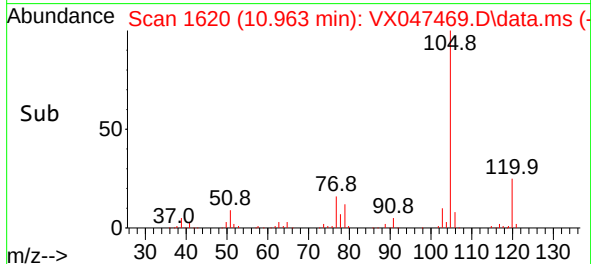
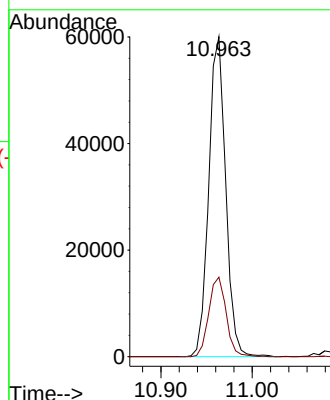
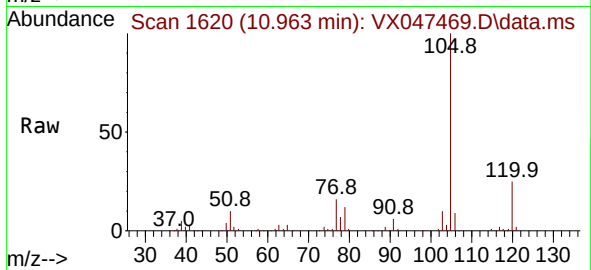
MW-11B-081825RE

Tgt Ion:105 Resp: 77364

Ion Ratio Lower Upper

105 100

120 25.5 12.9 38.6



#76

1,2,3-Trichloropropane

Concen: 27.204 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047469.D

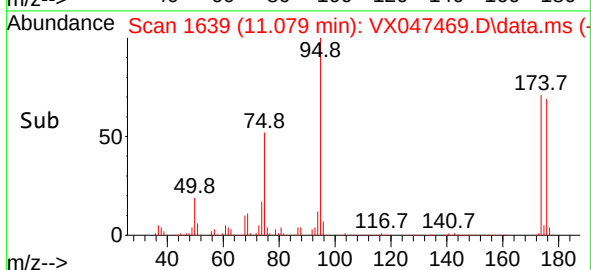
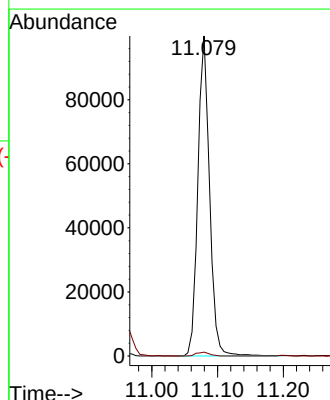
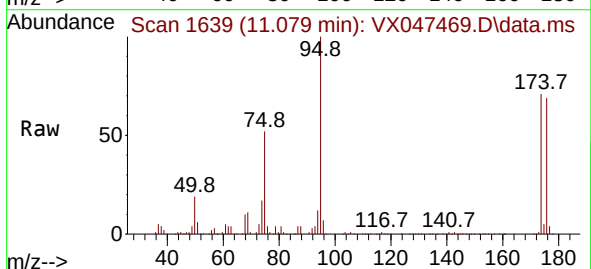
Acq: 21 Aug 2025 14:49

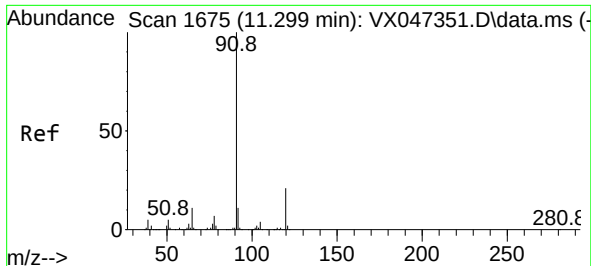
Tgt Ion: 75 Resp: 123339

Ion Ratio Lower Upper

75 100

77 1.3 19.4 58.2#

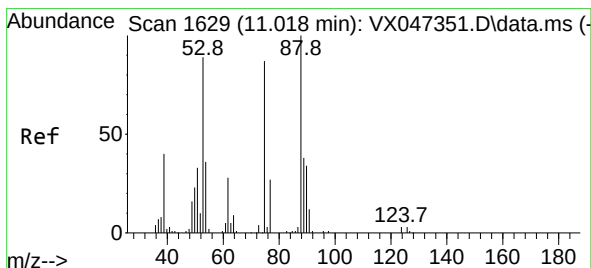
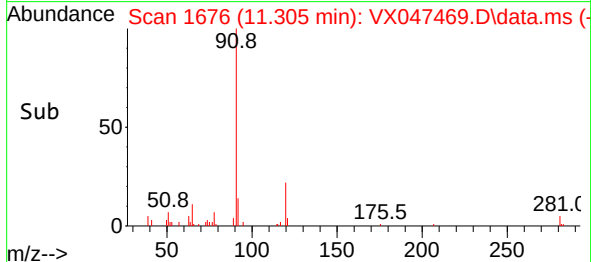
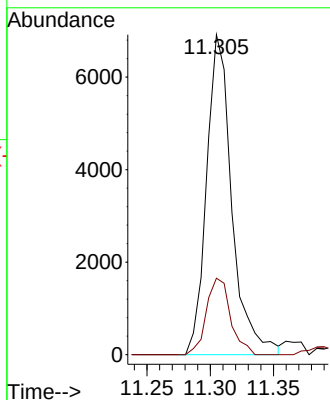
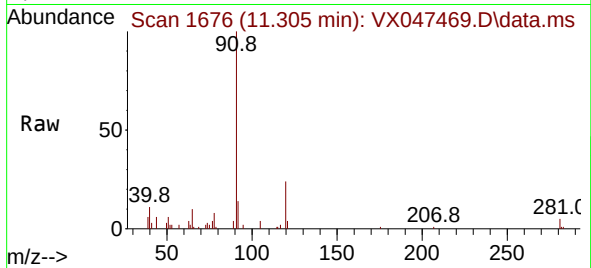




#78
n-propylbenzene
Concen: 0.416 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

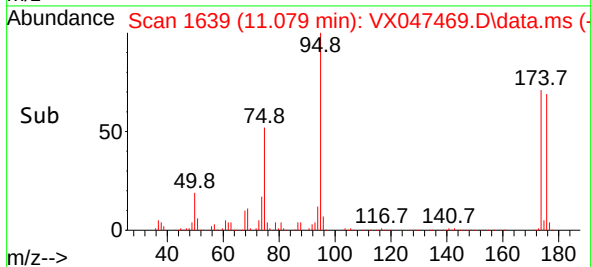
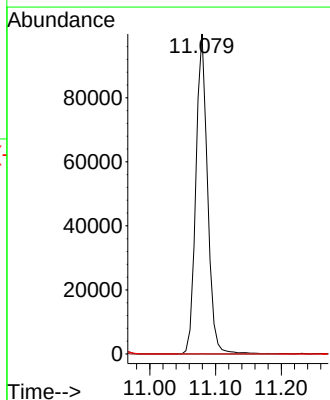
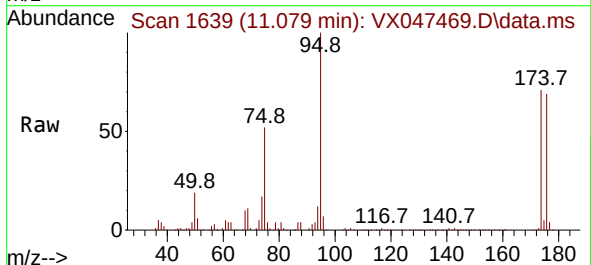
Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

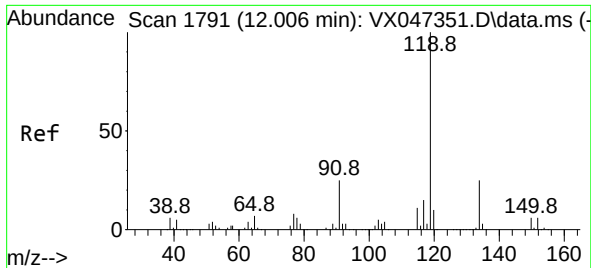
Tgt Ion: 91 Resp: 9616
Ion Ratio Lower Upper
91 100
120 22.8 11.0 33.0



#81
trans-1,4-Dichloro-2-butene
Concen: 107.515 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion: 75 Resp: 123339
Ion Ratio Lower Upper
75 100
53 0.0 85.2 127.8#
89 0.0 36.7 55.1#

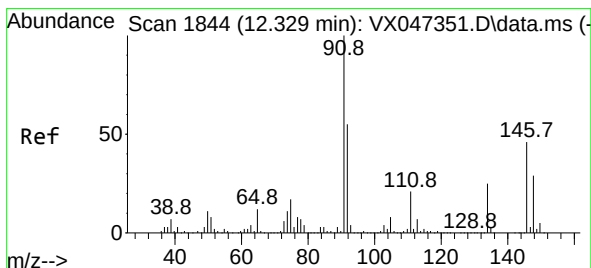
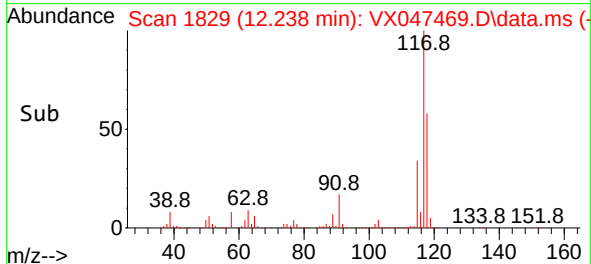
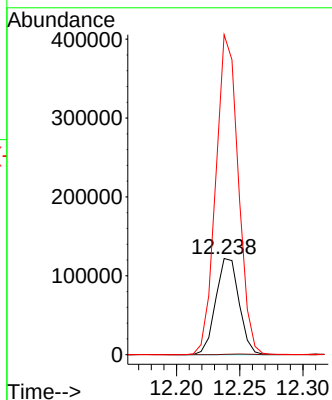
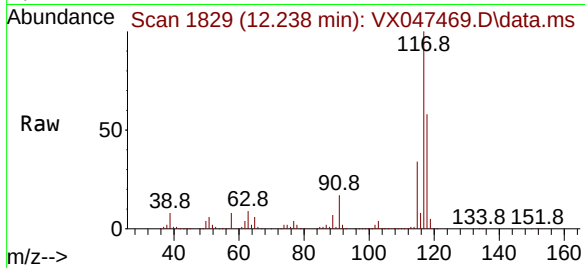




#86
p-Isopropyltoluene
Concen: 9.395 ug/l
RT: 12.238 min Scan# 1829
Delta R.T. 0.232 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

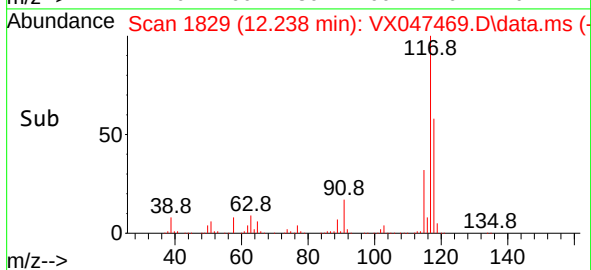
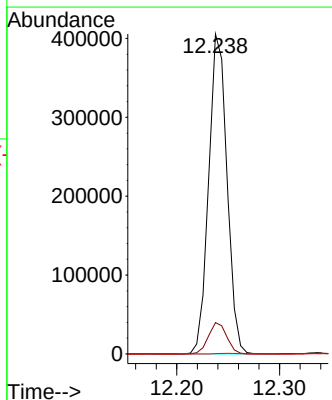
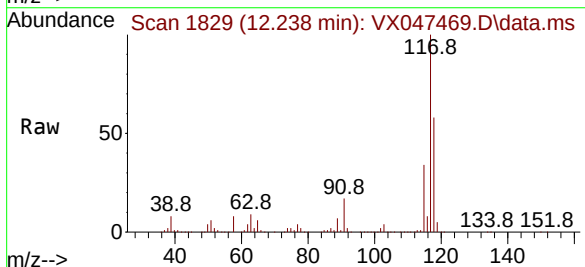
Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

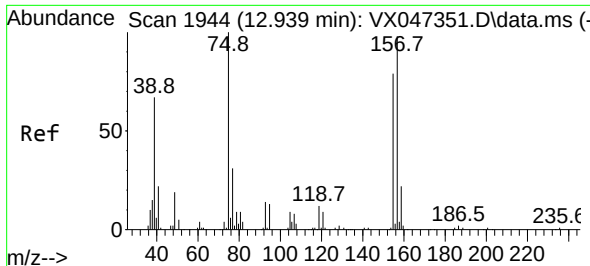
Tgt Ion:119 Resp: 156470
Ion Ratio Lower Upper
119 100
134 0.7 12.8 38.4#
91 320.6 12.4 37.4#



#89
n-Butylbenzene
Concen: 32.400 ug/l
RT: 12.238 min Scan# 1829
Delta R.T. -0.091 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

Tgt Ion: 91 Resp: 501897
Ion Ratio Lower Upper
91 100
92 9.8 27.2 81.5#
134 0.2 12.6 37.8#

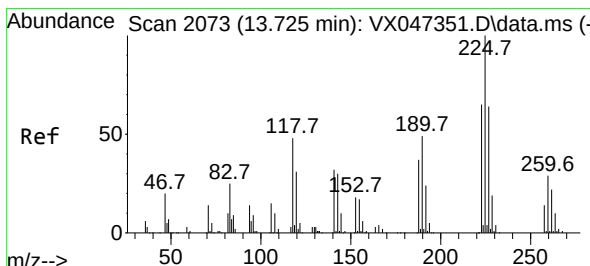
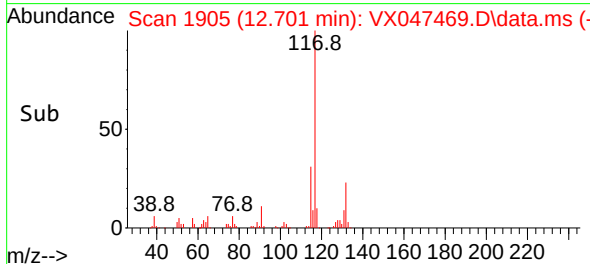
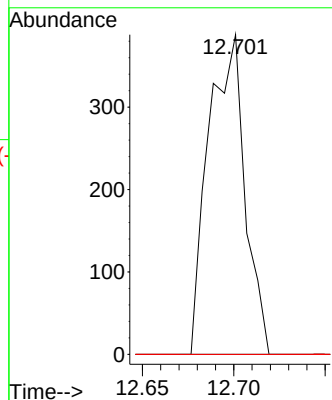
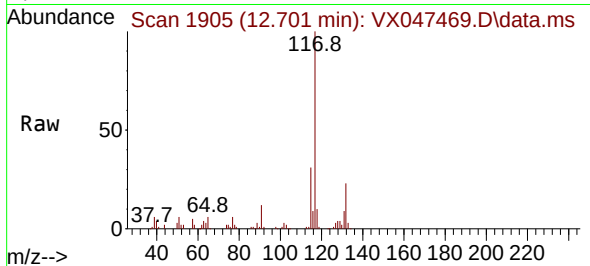




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.489 ug/l
RT: 12.701 min Scan# 1944
Delta R.T. -0.238 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

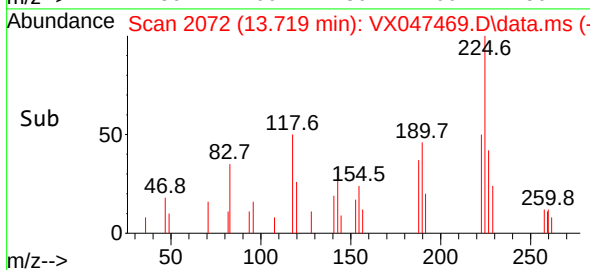
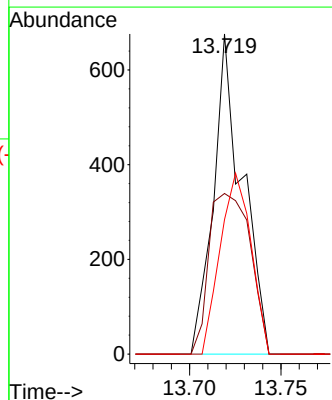
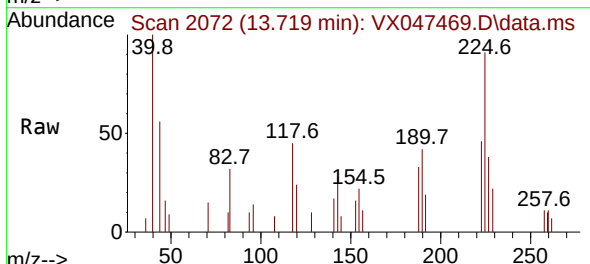
Instrument :
MSVOA_X
ClientSampleId :
MW-11B-081825RE

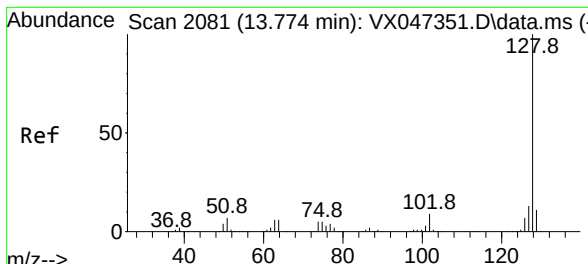
Tgt Ion: 75 Resp: 537
Ion Ratio Lower Upper
75 100
155 0.0 41.3 123.7#
157 0.0 51.5 154.5#



#94
Hexachlorobutadiene
Concen: 0.364 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047469.D
Acq: 21 Aug 2025 14:49

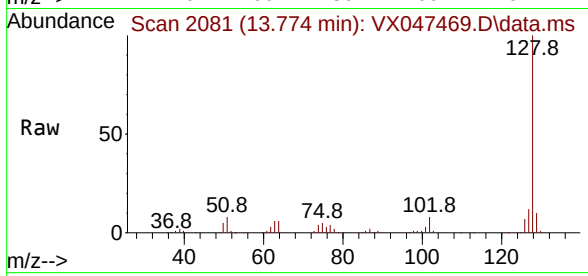
Tgt Ion: 225 Resp: 743
Ion Ratio Lower Upper
225 100
223 71.9 32.2 96.6
227 60.6 31.6 95.0





#95
 Naphthalene
 Concen: 7.446 ug/l
 RT: 13.774 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VX047469.D
 Acq: 21 Aug 2025 14:49

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-11B-081825RE



Tgt Ion:	128	Resp:	122181
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.6	8.7	13.1

