

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082225\
 Data File : VV039018.D
 Acq On : 22 Aug 2025 15:27
 Operator : SY/MD
 Sample : Q2924-02DL2 400X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-201-082025DL2

Quant Time: Aug 25 02:24:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 04:15:04 2025
 Response via : Initial Calibration

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

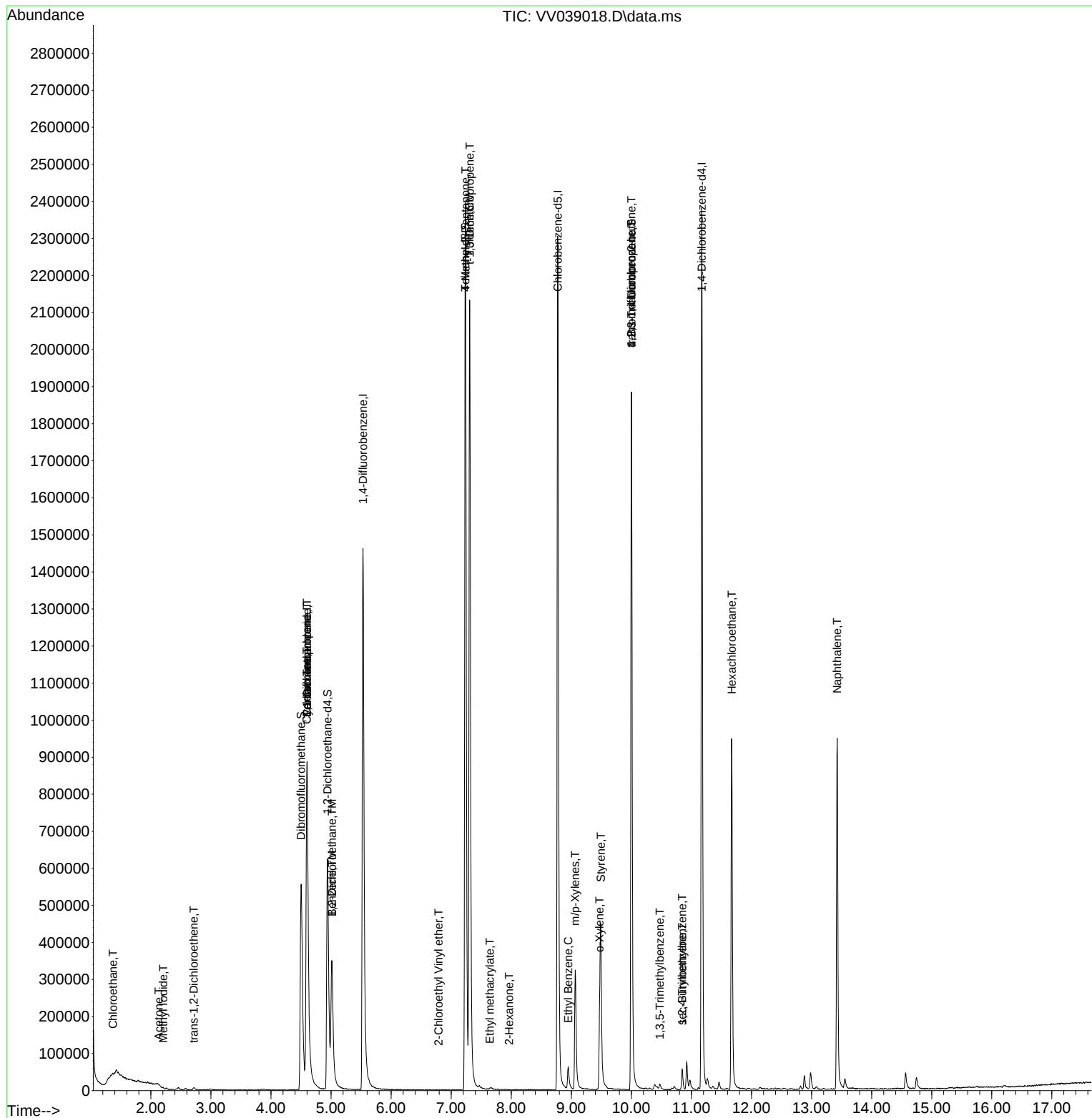
Internal Standards						
1) Pentafluorobenzene	4.600	168	766342	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1437458	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1305700	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	617094	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	550861	51.228	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 102.460%			
35) Dibromofluoromethane	4.503	113	477466	44.291	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 88.580%			
50) Toluene-d8	7.236	98	1663060	44.241	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 88.480%#			
62) 4-Bromofluorobenzene	10.001	95	641035	46.615	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 93.220%			
Target Compounds					Qvalue	
6) Chloroethane	1.372	64	65106	10.233	ug/l #	48
10) Methyl Iodide	2.204	142	2465	0.210	ug/l #	87
13) Acrolein	2.011	56	91	Below Cal	#	13
16) Acetone	2.134	43	2448	0.567	ug/l	92
21) trans-1,2-Dichloroethene	2.716	96	2573	0.284	ug/l #	74
28) Bromochloromethane	4.169	49	20	Below Cal	#	3
31) Cyclohexane	4.597	56	16387	1.087	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	59998	4.286	ug/l #	47
38) Carbon Tetrachloride	4.600	117	81140	4.328	ug/l #	16
40) Benzene	5.015	78	405522	9.248	ug/l	98
42) 1,2-Dichloroethane	5.015	62	3423	0.214	ug/l #	74
51) 4-Methyl-2-Pentanone	7.240	43	6404	0.467	ug/l #	1
52) Toluene	7.307	92	974038	35.075	ug/l	99
53) t-1,3-Dichloropropene	7.310	75	10148	0.604	ug/l #	1
56) Ethyl methacrylate	7.645	69	142	2.322	ug/l #	29
58) 2-Chloroethyl Vinyl ether	6.793	63	79	4.994	ug/l #	43
59) 2-Hexanone	7.963	43	50	10.901	ug/l	77
67) Ethyl Benzene	8.950	91	49464	1.029	ug/l	95
68) m/p-Xylenes	9.066	106	102083	5.469	ug/l	99
69) o-Xylene	9.471	106	54870	3.225	ug/l	94
70) Styrene	9.490	104	230738	7.905	ug/l	93
76) 1,2,3-Trichloropropane	10.001	75	322601	28.184	ug/l #	56
80) 1,3,5-Trimethylbenzene	10.474	105	9222	0.265	ug/l	76
81) trans-1,4-Dichloro-2-b...	10.001	75	322601	64.707	ug/l #	14
84) 1,2,4-Trimethylbenzene	10.847	105	30737	0.922	ug/l	98
85) sec-Butylbenzene	10.847	105	30737	0.683	ug/l #	57
90) Hexachloroethane	11.670	117	45908	5.242	ug/l #	16
95) Naphthalene	13.426	128	758488	20.106	ug/l	100

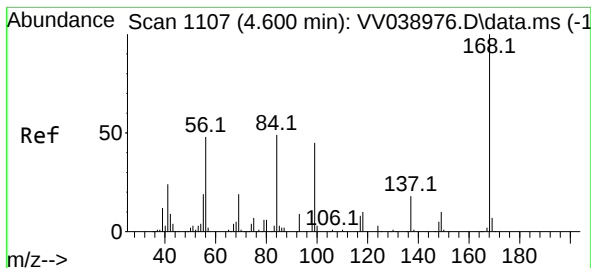
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 22 04:15:04 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.000 min

Lab File: VV039018.D

Acq: 22 Aug 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

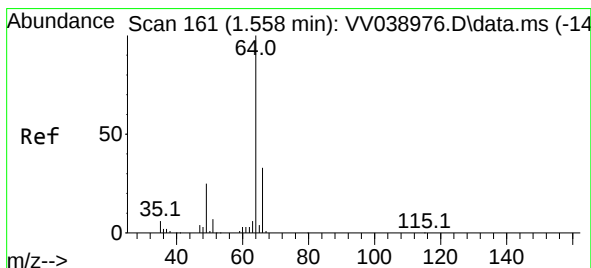
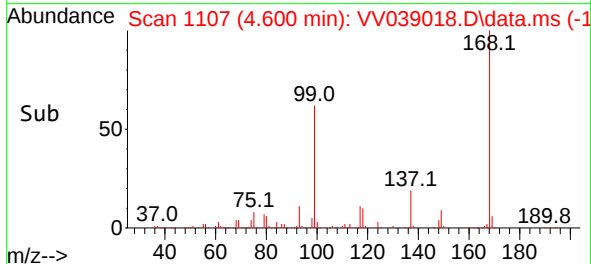
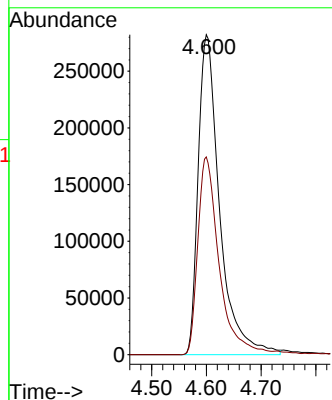
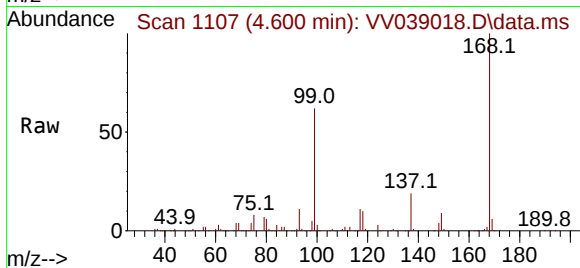
MW-201-082025DL2

Tgt Ion:168 Resp: 766342

Ion Ratio Lower Upper

168 100

99 61.8 47.0 70.6



#6

Chloroethane

Concen: 10.233 ug/l

RT: 1.372 min Scan# 103

Delta R.T. -0.186 min

Lab File: VV039018.D

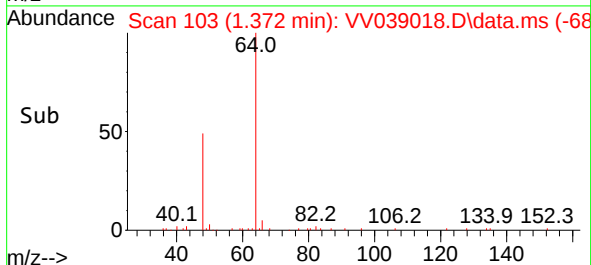
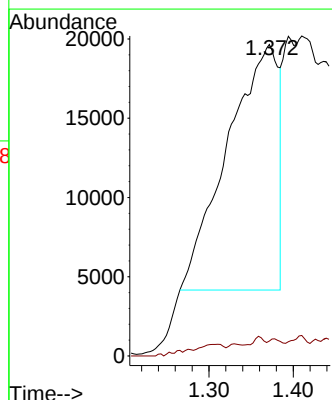
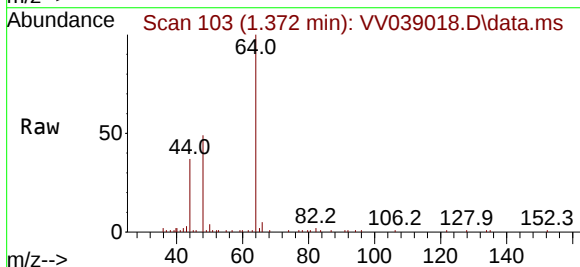
Acq: 22 Aug 2025 15:27

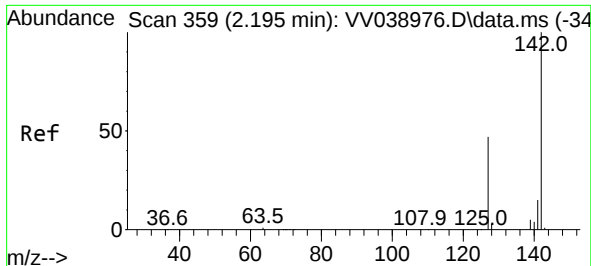
Tgt Ion: 64 Resp: 65106

Ion Ratio Lower Upper

64 100

66 3.8 26.8 40.2#

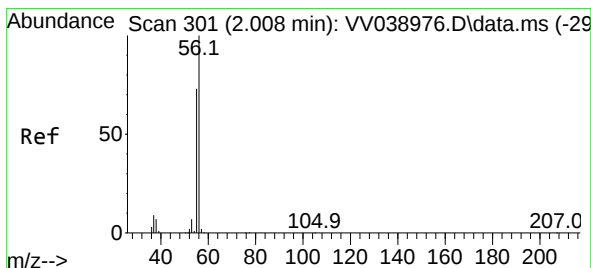
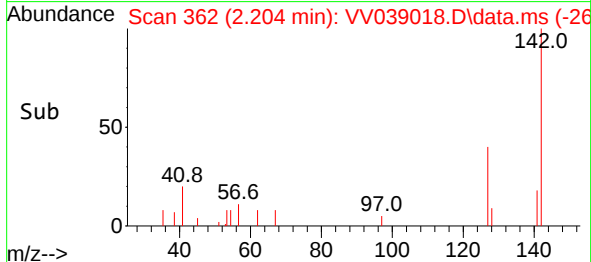
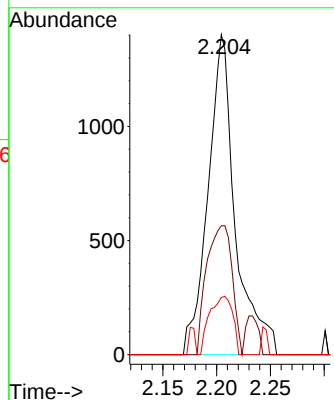
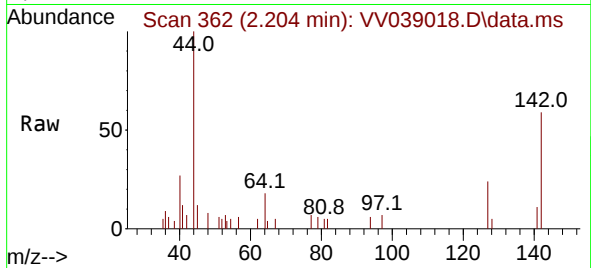




#10
Methyl Iodide
Concen: 0.210 ug/l
RT: 2.204 min Scan# 302
Delta R.T. 0.010 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

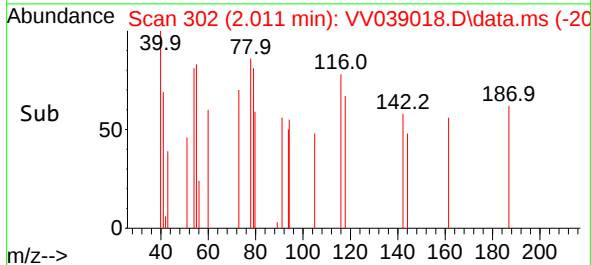
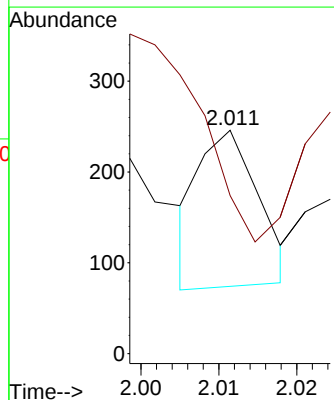
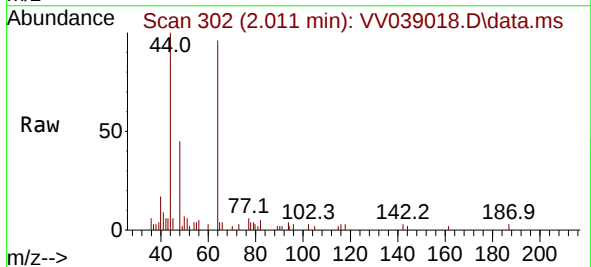
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

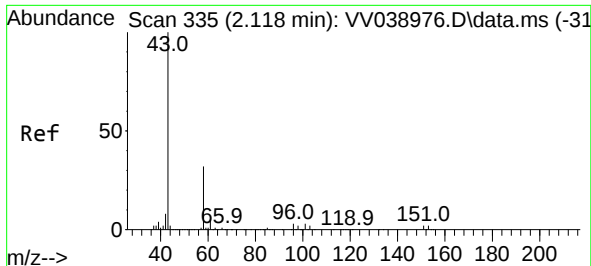
Tgt Ion:142 Resp: 2465
Ion Ratio Lower Upper
142 100
127 37.7 38.6 57.8#
141 15.5 11.4 17.2



#13
Acrolein
Concen: Below Cal
RT: 2.011 min Scan# 302
Delta R.T. 0.003 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 56 Resp: 91
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#

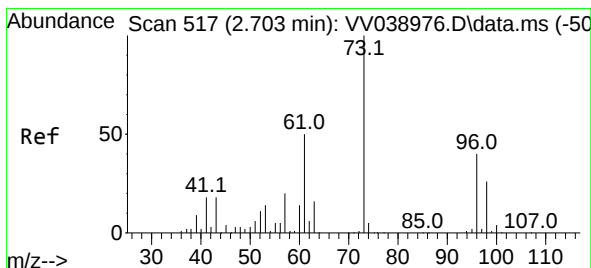
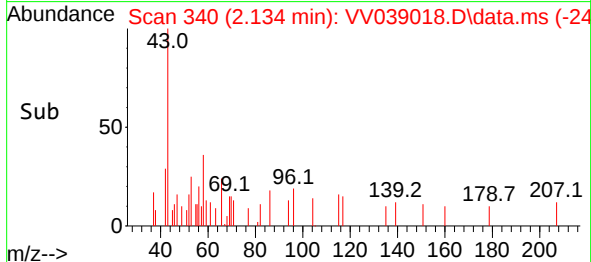
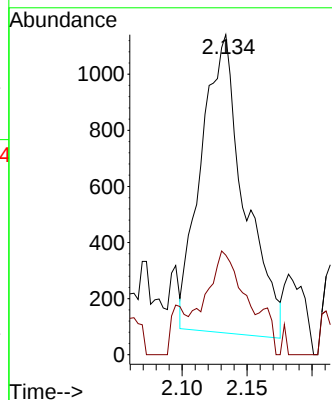
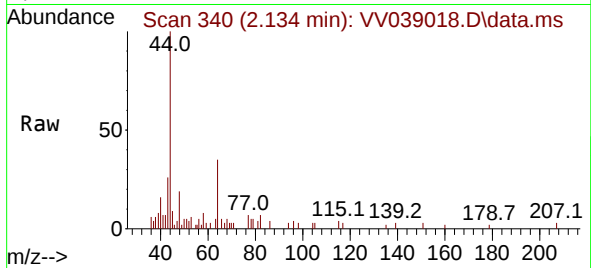




#16
Acetone
Concen: 0.567 ug/l
RT: 2.134 min Scan# 340
Delta R.T. 0.016 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

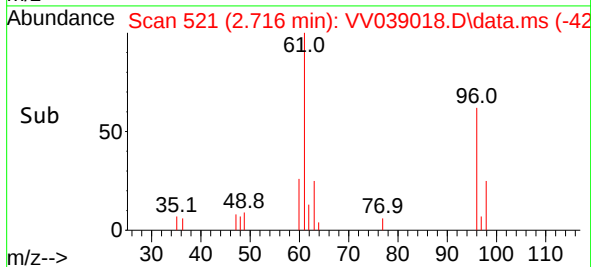
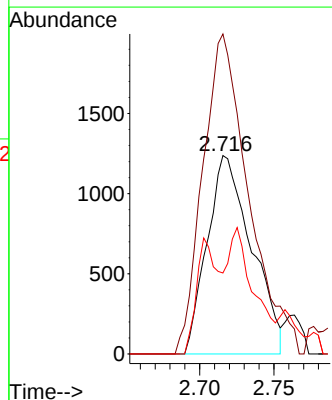
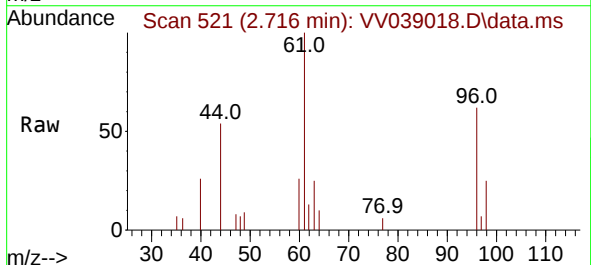
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

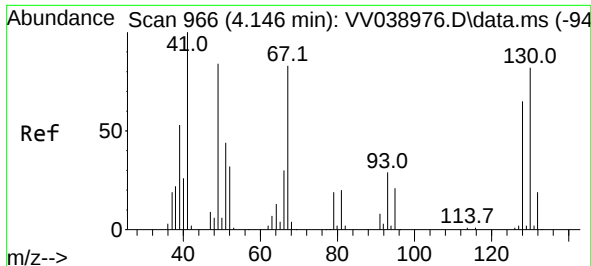
Tgt Ion: 43 Resp: 2448
Ion Ratio Lower Upper
43 100
58 37.2 26.3 39.5



#21
trans-1,2-Dichloroethene
Concen: 0.284 ug/l
RT: 2.716 min Scan# 521
Delta R.T. 0.013 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 96 Resp: 2573
Ion Ratio Lower Upper
96 100
61 152.8 100.6 151.0#
98 40.8 51.5 77.3#

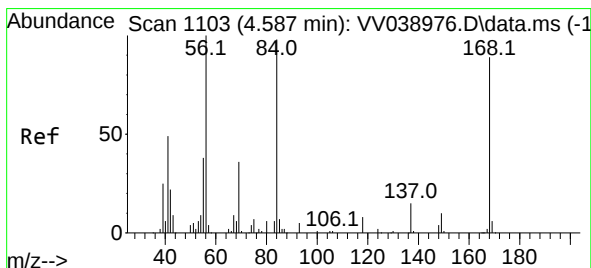
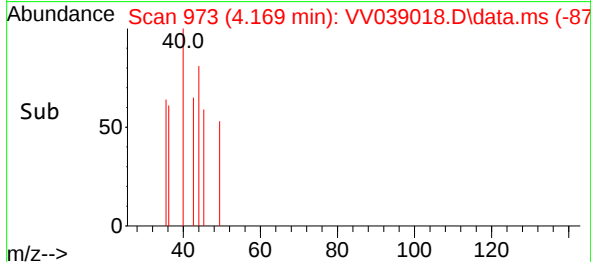
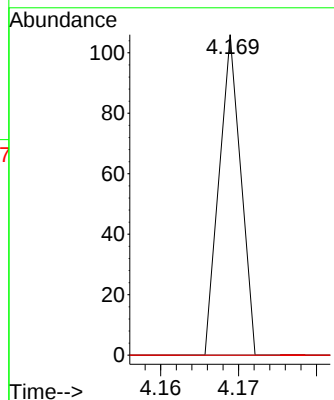
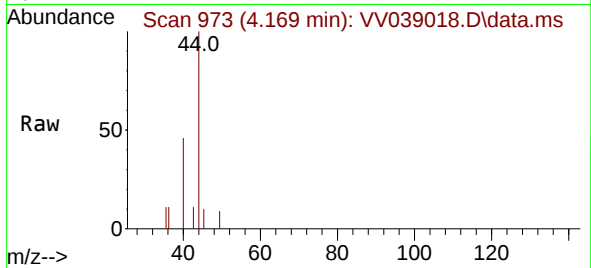




#28
Bromochloromethane
Concen: Below Cal
RT: 4.169 min Scan# 91
Delta R.T. 0.023 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

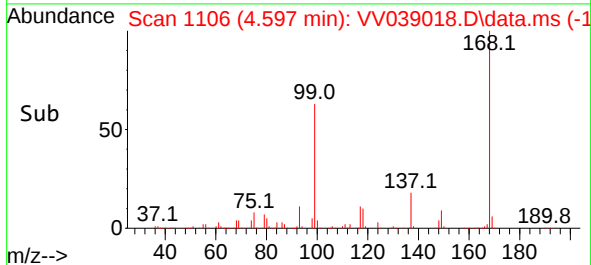
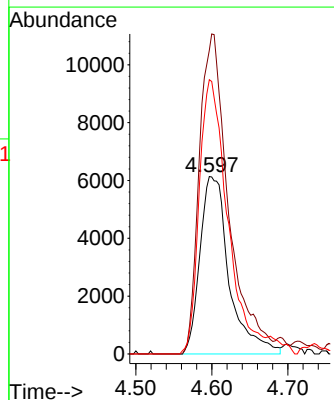
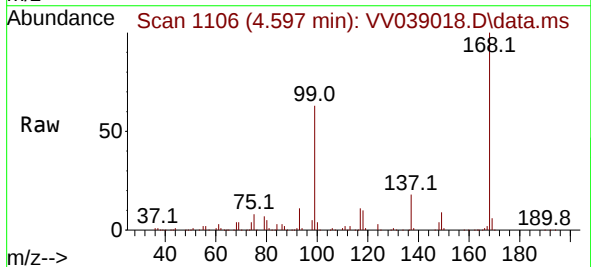
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

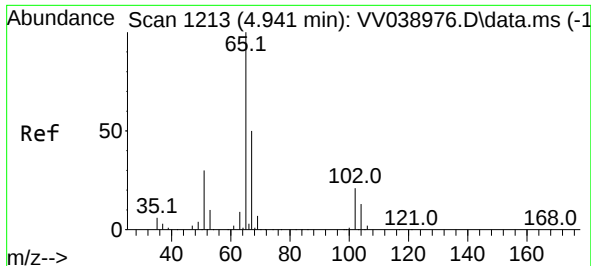
Tgt Ion: 49 Resp: 20
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 78.2 117.2#



#31
Cyclohexane
Concen: 1.087 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. 0.010 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 56 Resp: 16387
Ion Ratio Lower Upper
56 100
69 171.1 28.6 42.8#
84 154.5 78.1 117.1#





#33

1,2-Dichloroethane-d4

Concen: 51.228 ug/l

RT: 4.941 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV039018.D

Acq: 22 Aug 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

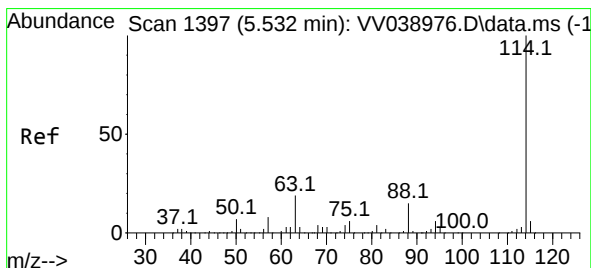
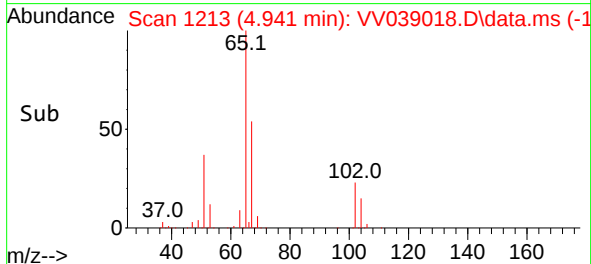
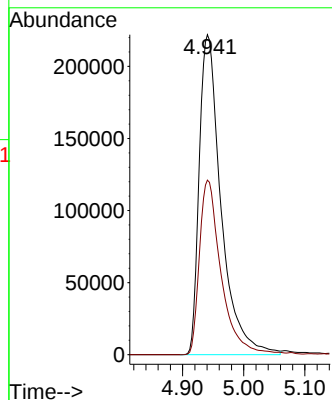
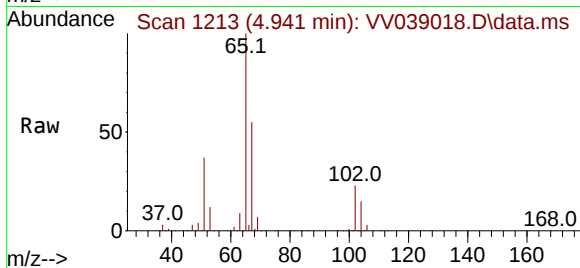
MW-201-082025DL2

Tgt Ion: 65 Resp: 550861

Ion Ratio Lower Upper

65 100

67 54.1 0.0 100.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VV039018.D

Acq: 22 Aug 2025 15:27

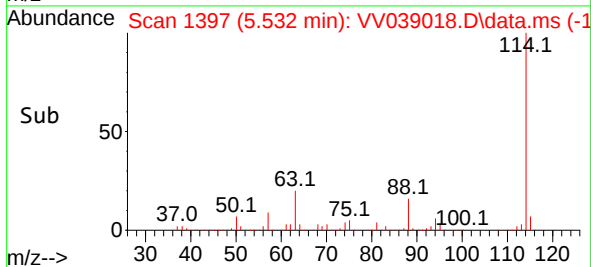
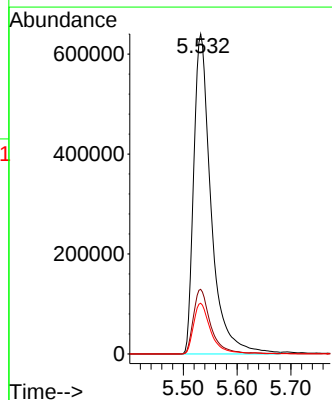
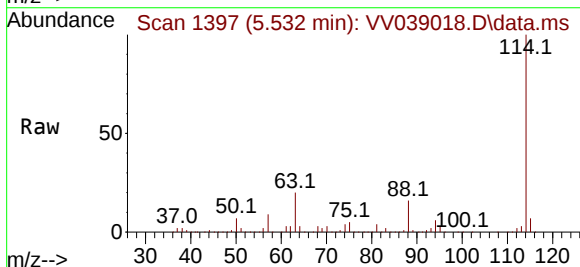
Tgt Ion: 114 Resp: 1437458

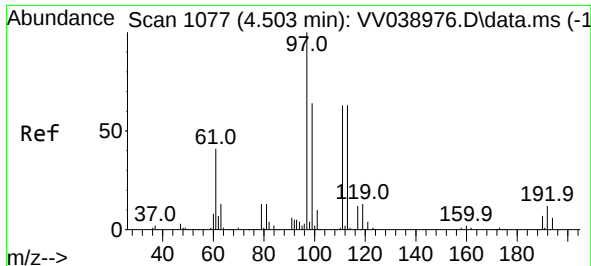
Ion Ratio Lower Upper

114 100

63 20.2 0.0 37.4

88 15.9 0.0 30.4

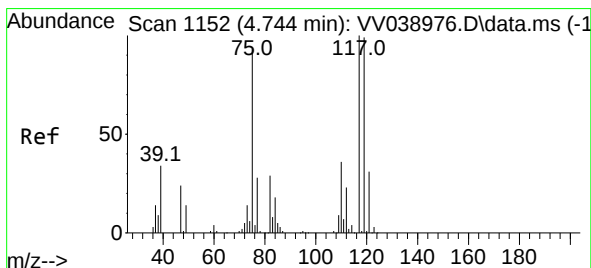
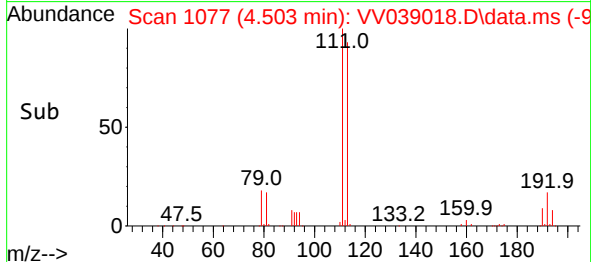
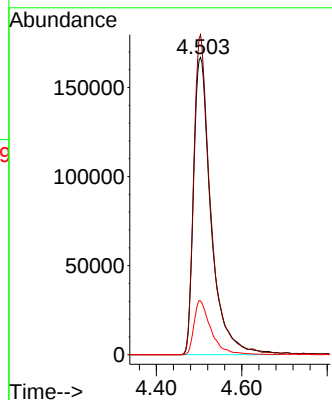
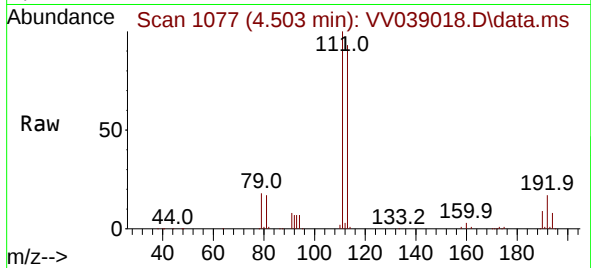




#35
Dibromofluoromethane
Concen: 44.291 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

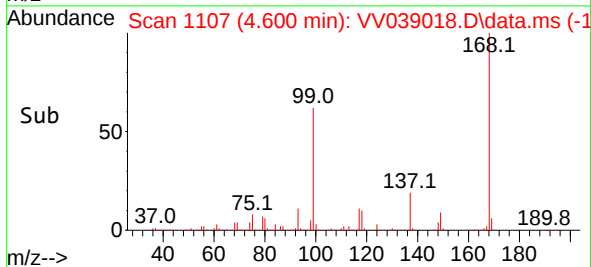
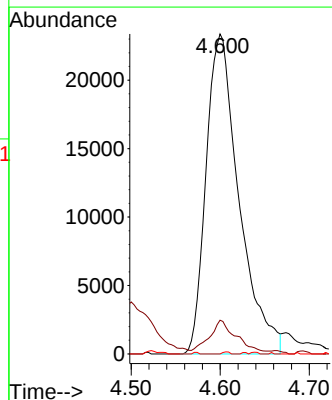
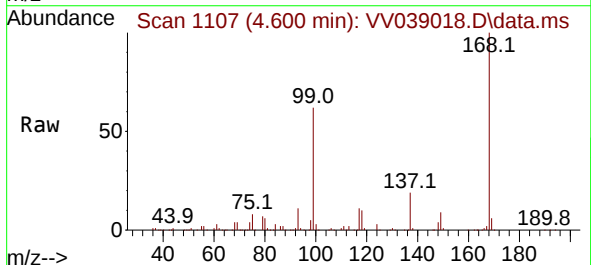
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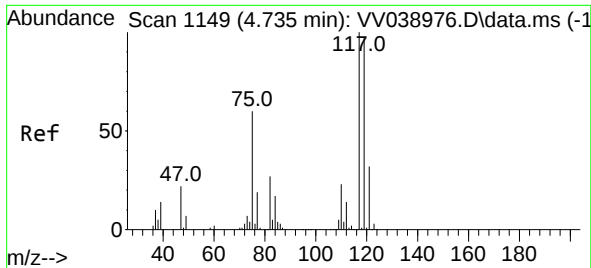
Tgt Ion:113 Resp: 477466
Ion Ratio Lower Upper
113 100
111 102.2 81.3 121.9
192 17.4 15.4 23.0



#36
1,1-Dichloropropene
Concen: 4.286 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 75 Resp: 59998
Ion Ratio Lower Upper
75 100
110 7.6 19.6 58.7#
77 0.0 24.4 36.6#

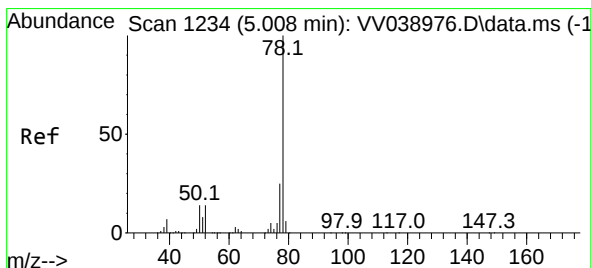
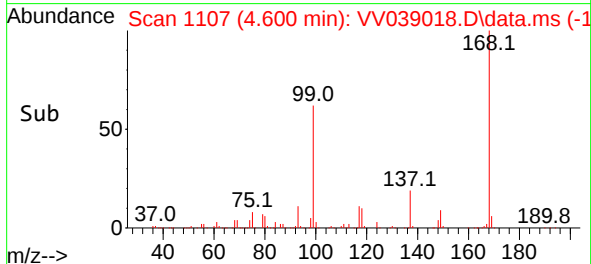
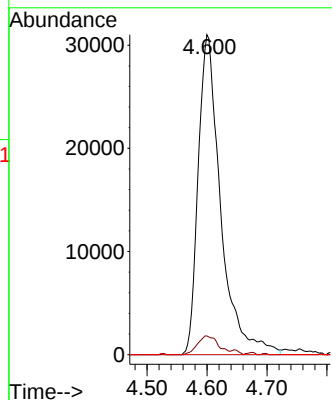
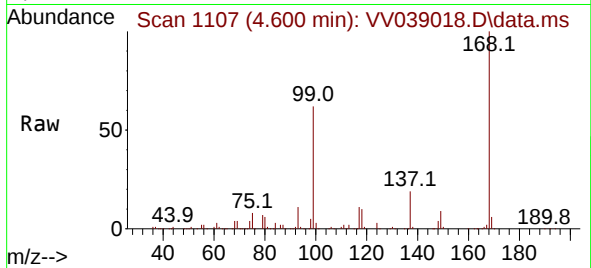




#38
Carbon Tetrachloride
Concen: 4.328 ug/l
RT: 4.600 min Scan# 1149
Delta R.T. -0.135 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

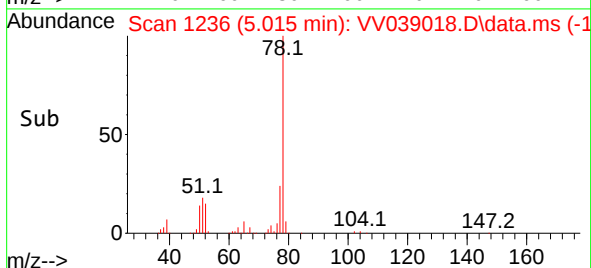
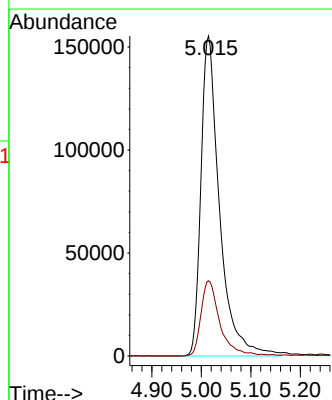
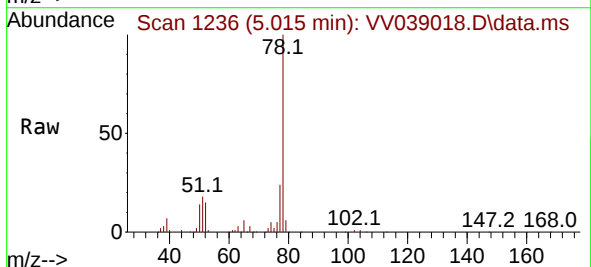
Instrument : MSVOA_V
ClientSampleId : MW-201-082025DL2

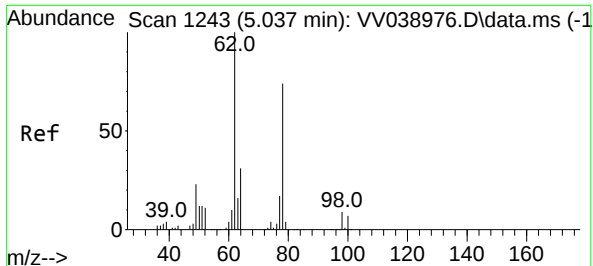
Tgt Ion:117 Resp: 81140
Ion Ratio Lower Upper
117 100
119 5.8 77.1 115.7#
121 0.0 25.4 38.2#



#40
Benzene
Concen: 9.248 ug/l
RT: 5.015 min Scan# 1236
Delta R.T. 0.006 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 78 Resp: 405522
Ion Ratio Lower Upper
78 100
77 23.5 19.6 29.4





#42

1,2-Dichloroethane

Concen: 0.214 ug/l

RT: 5.015 min Scan# 1

Delta R.T. -0.023 min

Lab File: VV039018.D

Acq: 22 Aug 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

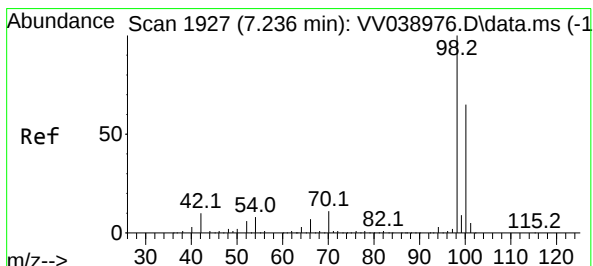
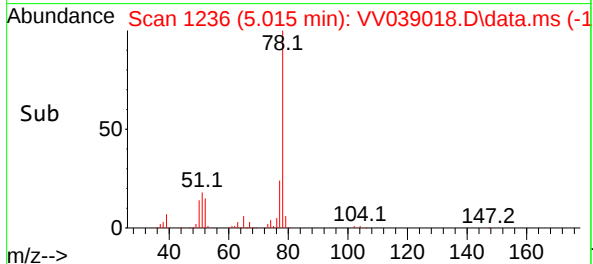
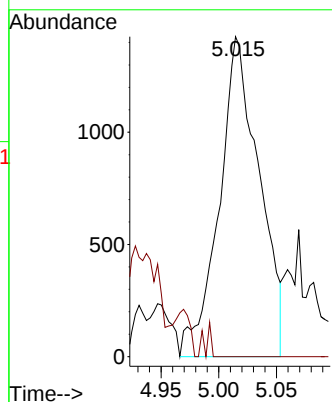
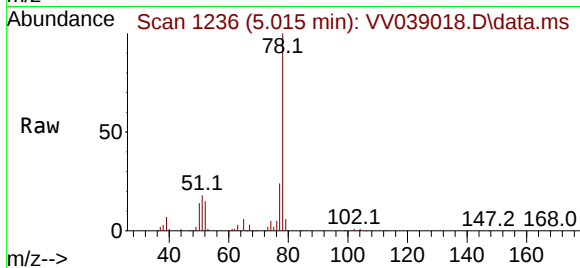
MW-201-082025DL2

Tgt Ion: 62 Resp: 3423

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.2



#50

Toluene-d8

Concen: 44.241 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. -0.000 min

Lab File: VV039018.D

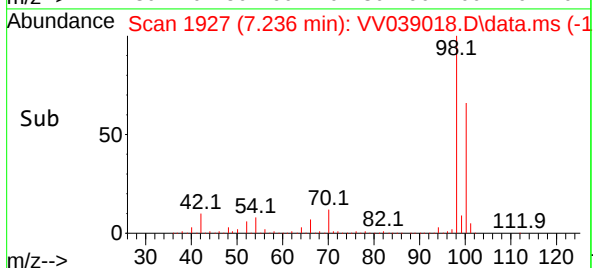
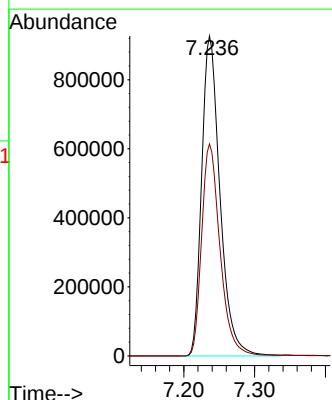
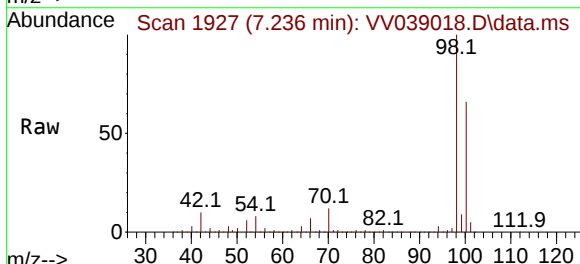
Acq: 22 Aug 2025 15:27

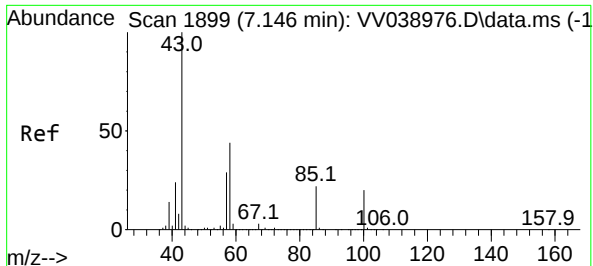
Tgt Ion: 98 Resp: 1663060

Ion Ratio Lower Upper

98 100

100 66.6 52.2 78.2

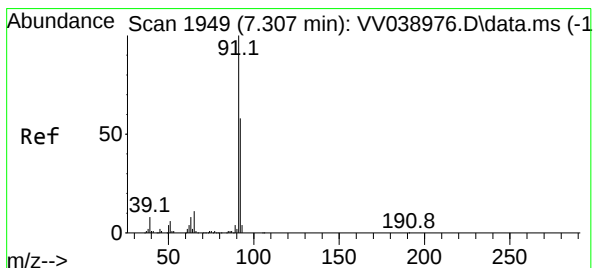
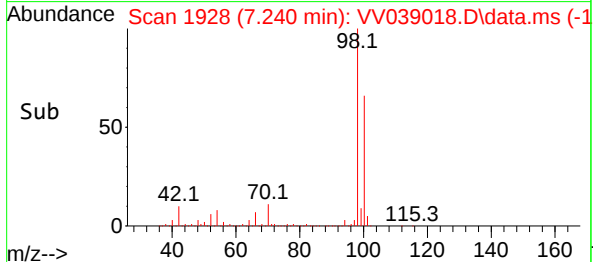
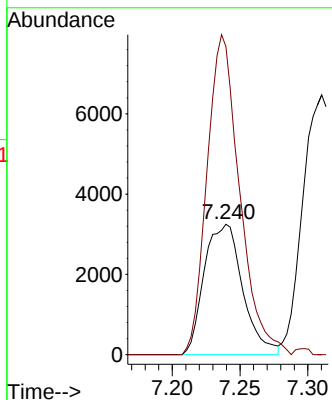
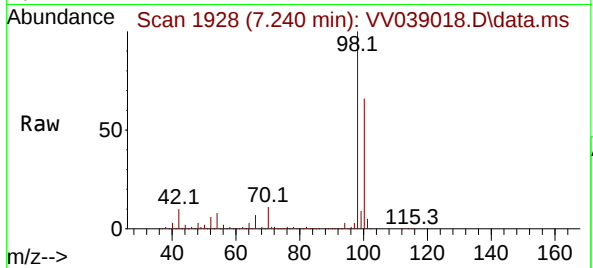




#51
4-Methyl-2-Pentanone
Concen: 0.467 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.093 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

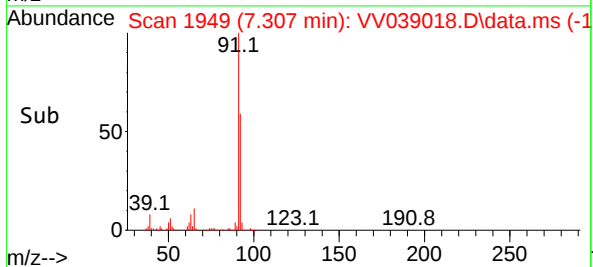
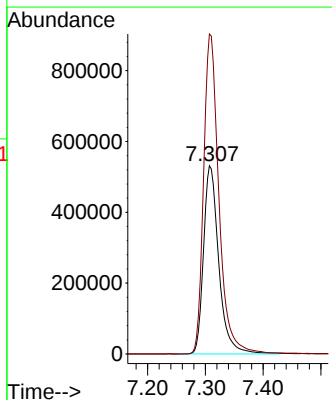
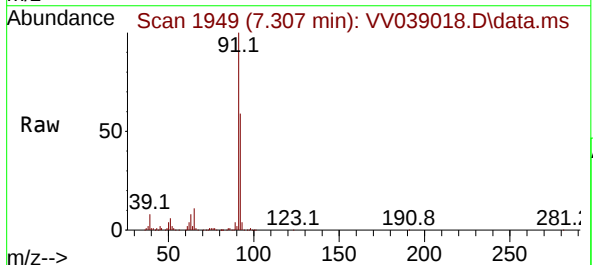
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

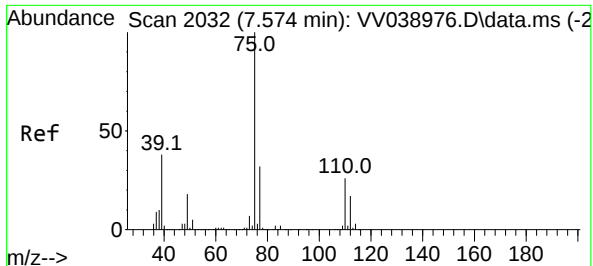
Tgt Ion: 43 Resp: 6404
Ion Ratio Lower Upper
43 100
58 208.9 34.6 51.8#



#52
Toluene
Concen: 35.075 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. -0.000 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 92 Resp: 974038
Ion Ratio Lower Upper
92 100
91 171.3 136.3 204.5

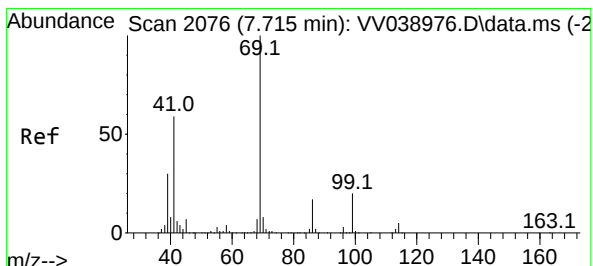
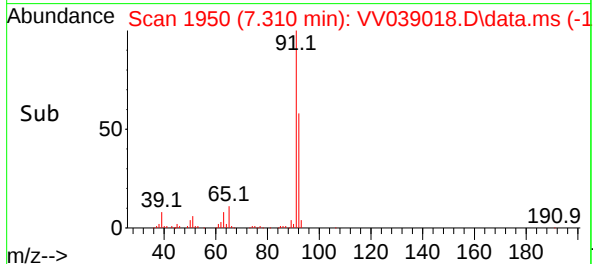
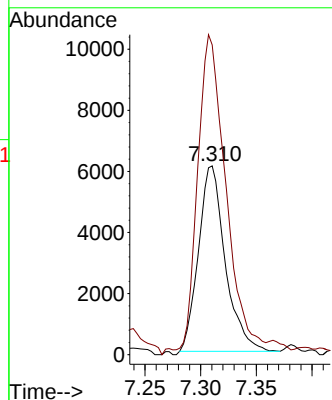
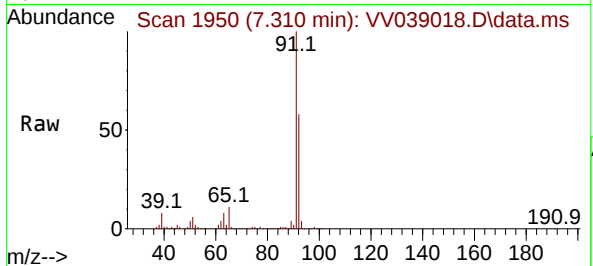




#53
t-1,3-Dichloropropene
Concen: 0.604 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. -0.264 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

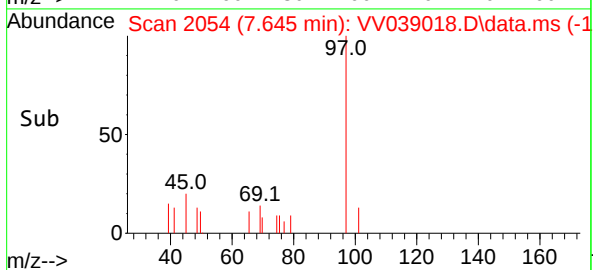
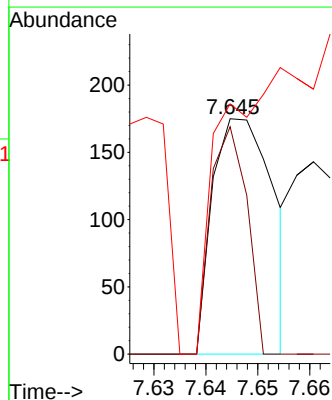
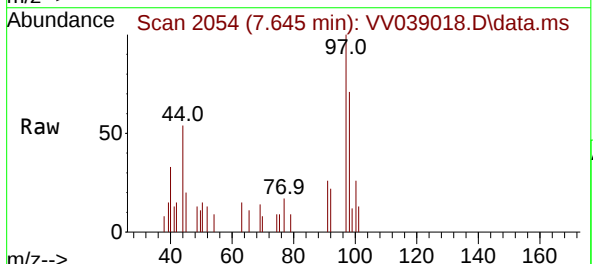
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

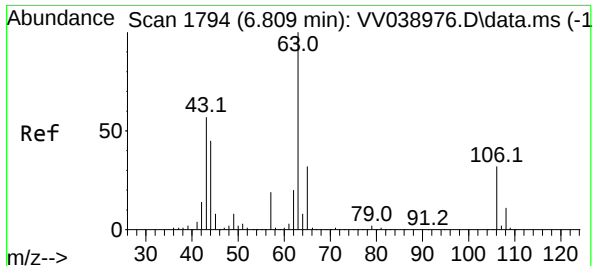
Tgt Ion: 75 Resp: 10148
Ion Ratio Lower Upper
75 100
77 163.5 25.3 37.9#



#56
Ethyl methacrylate
Concen: 2.322 ug/l
RT: 7.645 min Scan# 2054
Delta R.T. -0.070 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 69 Resp: 142
Ion Ratio Lower Upper
69 100
41 57.7 47.5 71.3
39 143.0 24.2 36.2#

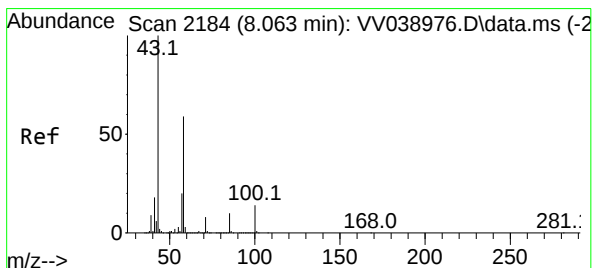
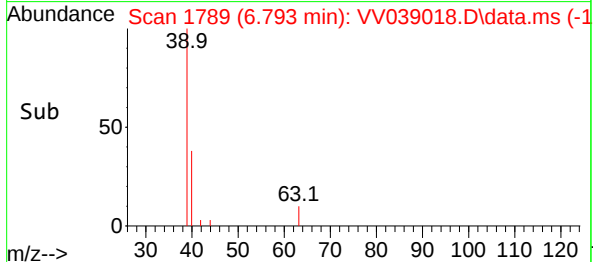
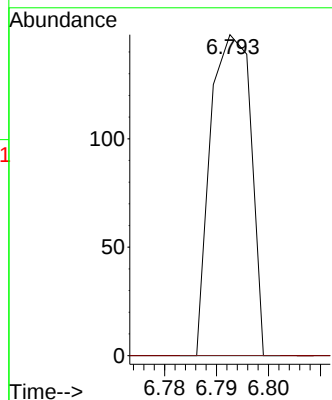
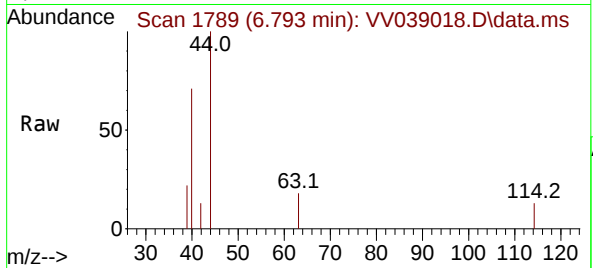




#58
2-Chloroethyl Vinyl ether
Concen: 4.994 ug/l
RT: 6.793 min Scan# 11
Delta R.T. -0.016 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

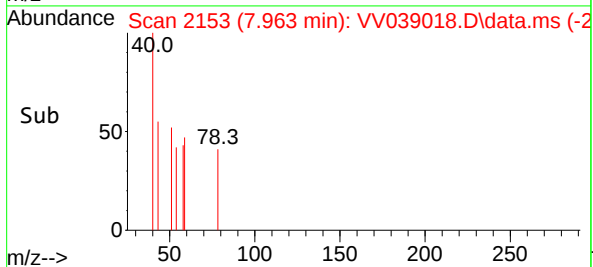
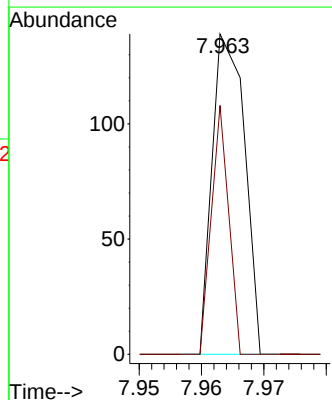
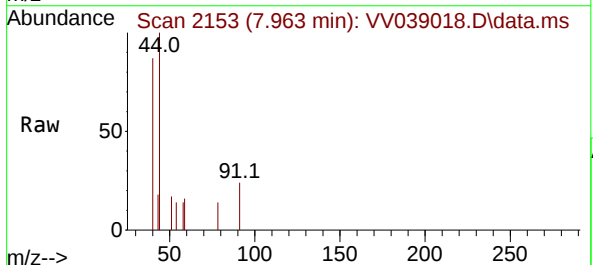
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

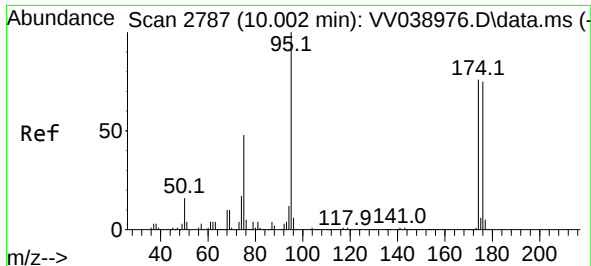
Tgt Ion: 63 Resp: 79
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 10.901 ug/l
RT: 7.963 min Scan# 2153
Delta R.T. -0.100 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 43 Resp: 50
Ion Ratio Lower Upper
43 100
58 42.0 29.8 89.4

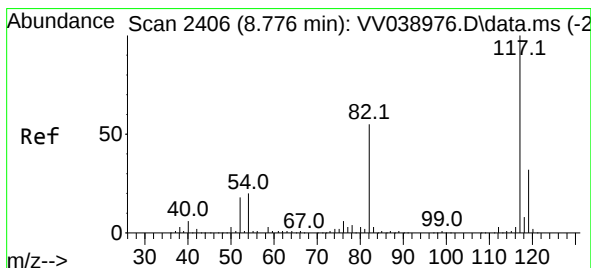
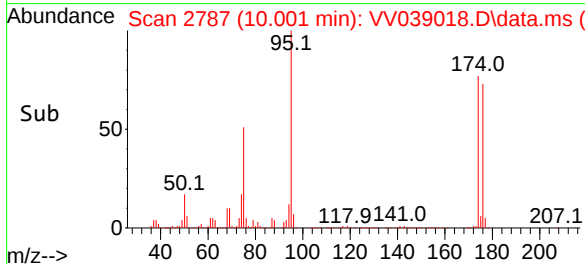
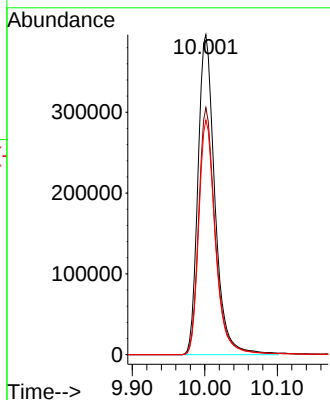
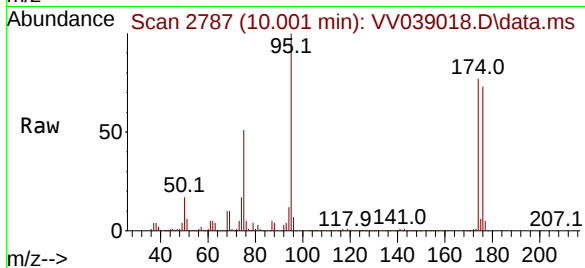




#62
4-Bromofluorobenzene
Concen: 46.615 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

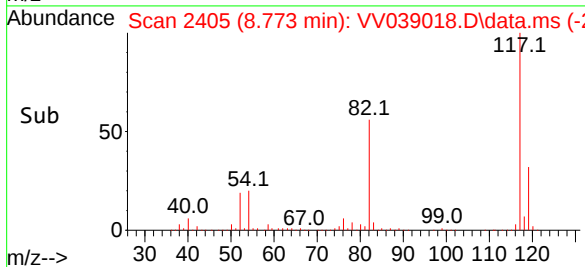
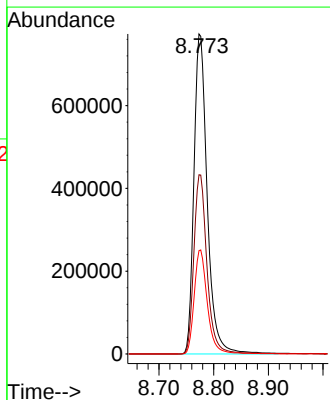
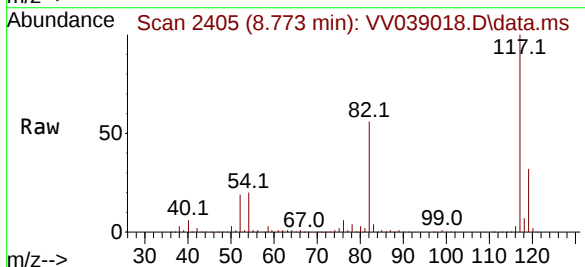
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

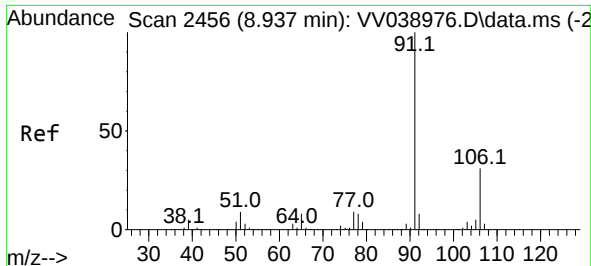
Tgt Ion: 95 Resp: 641035
Ion Ratio Lower Upper
95 100
174 75.9 0.0 154.4
176 72.7 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. -0.003 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 117 Resp: 1305700
Ion Ratio Lower Upper
117 100
82 56.0 44.4 66.6
119 32.3 26.0 39.0

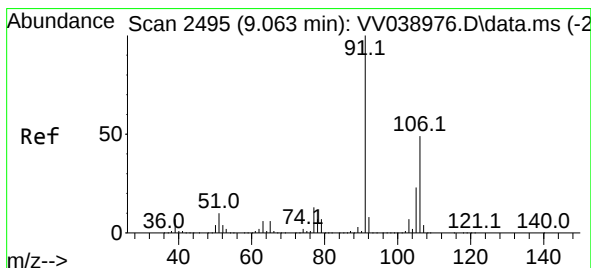
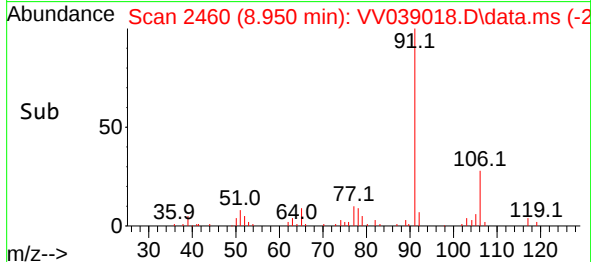
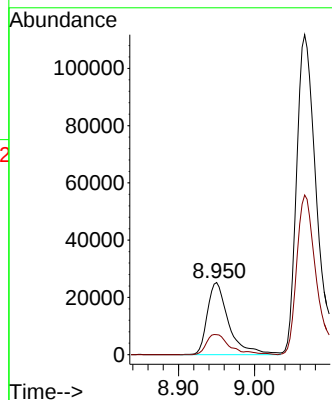
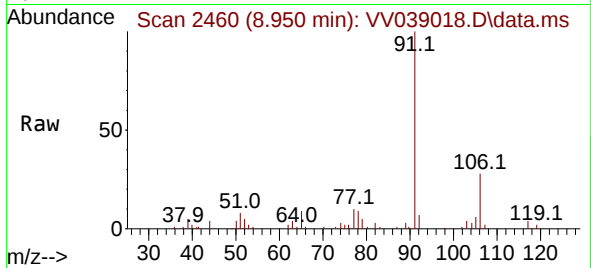




#67
Ethyl Benzene
Concen: 1.029 ug/l
RT: 8.950 min Scan# 2456
Delta R.T. 0.013 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

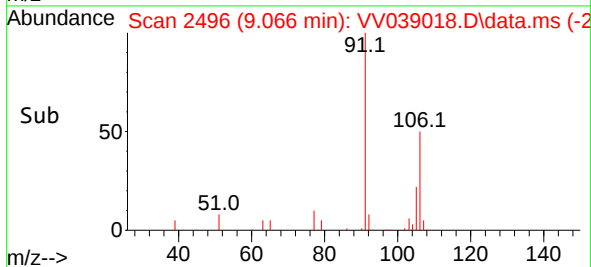
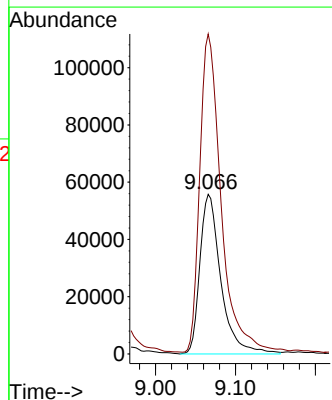
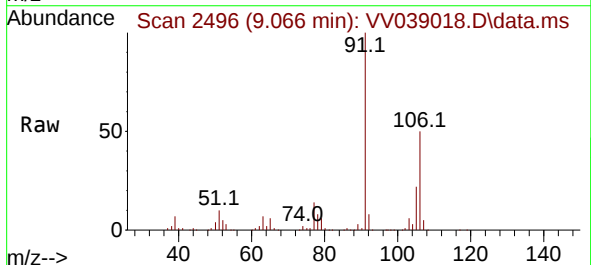
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

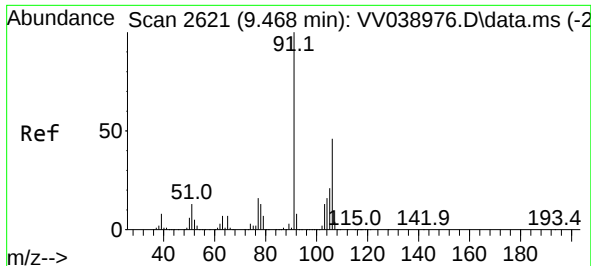
Tgt Ion: 91 Resp: 49464
Ion Ratio Lower Upper
91 100
106 27.7 24.6 36.8



#68
m/p-Xylenes
Concen: 5.469 ug/l
RT: 9.066 min Scan# 2496
Delta R.T. 0.003 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 106 Resp: 102083
Ion Ratio Lower Upper
106 100
91 202.3 163.6 245.4

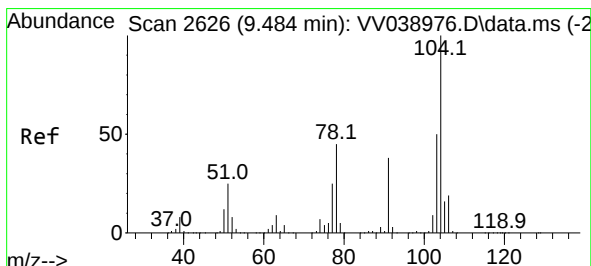
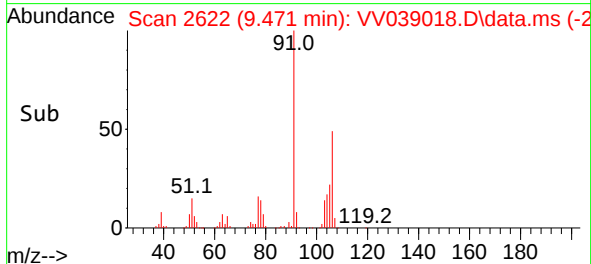
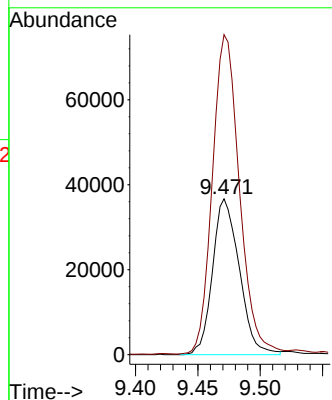
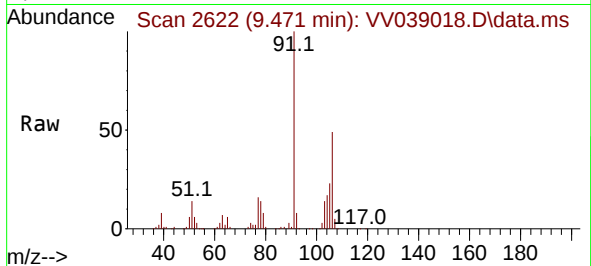




#69
o-Xylene
Concen: 3.225 ug/l
RT: 9.471 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

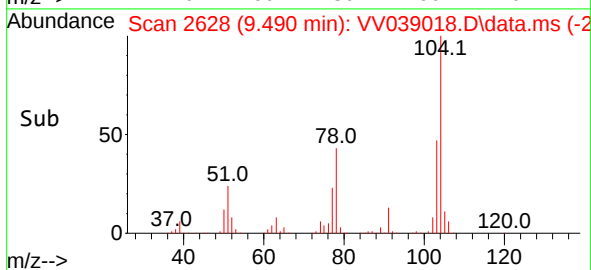
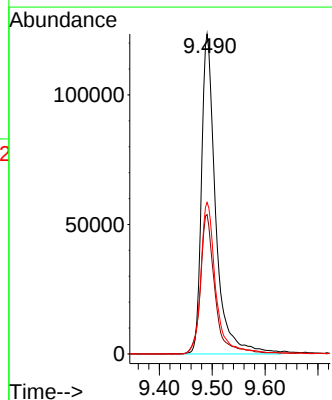
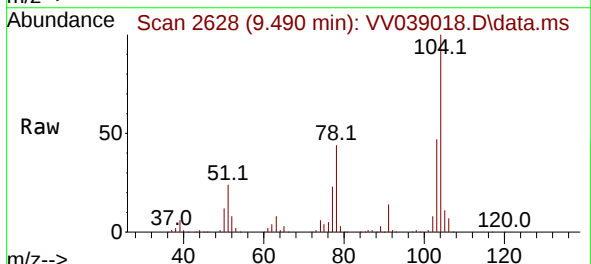
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

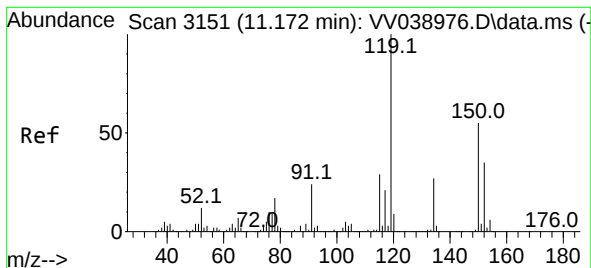
Tgt Ion:106 Resp: 54870
Ion Ratio Lower Upper
106 100
91 207.0 108.0 324.0



#70
Styrene
Concen: 7.905 ug/l
RT: 9.490 min Scan# 2628
Delta R.T. 0.006 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion:104 Resp: 230738
Ion Ratio Lower Upper
104 100
78 44.6 39.8 59.8
103 50.0 43.5 65.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039018.D

Acq: 22 Aug 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

MW-201-082025DL2

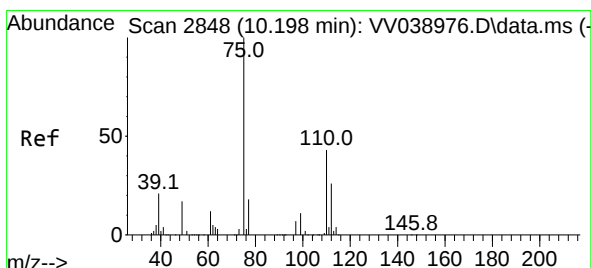
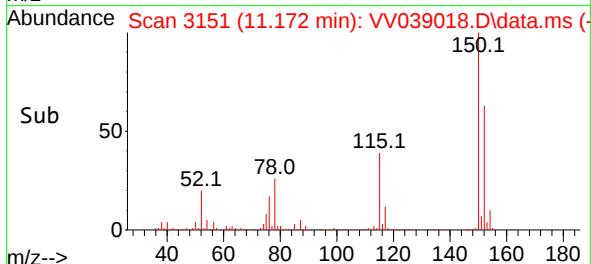
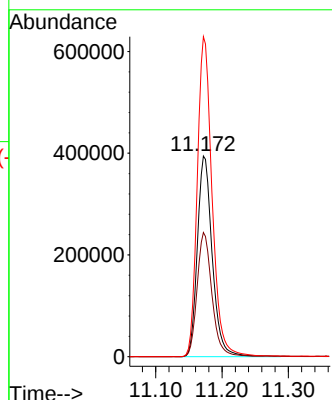
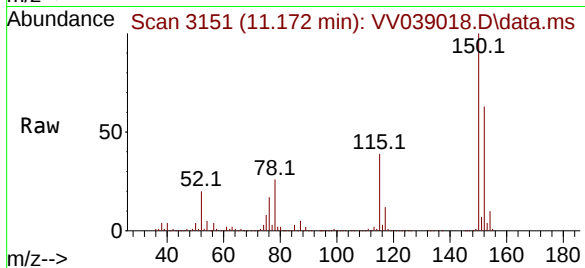
Tgt Ion:152 Resp: 617094

Ion Ratio Lower Upper

152 100

115 61.5 42.5 127.5

150 158.4 0.0 344.8



#76

1,2,3-Trichloropropane

Concen: 28.184 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039018.D

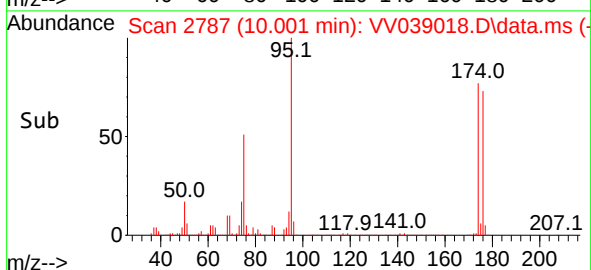
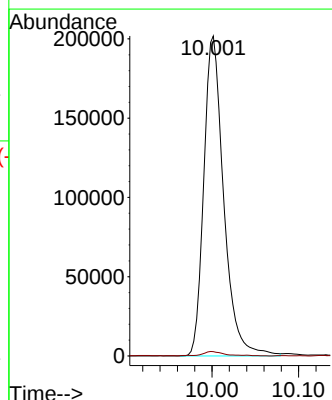
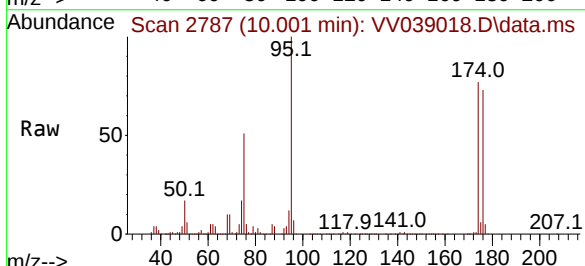
Acq: 22 Aug 2025 15:27

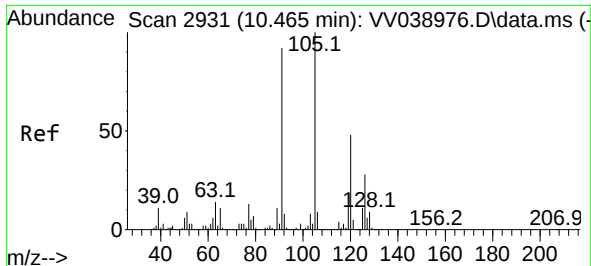
Tgt Ion: 75 Resp: 322601

Ion Ratio Lower Upper

75 100

77 1.5 11.3 33.8#

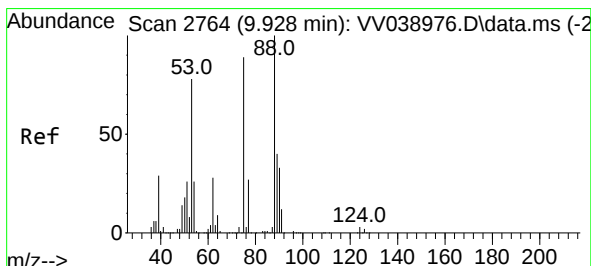
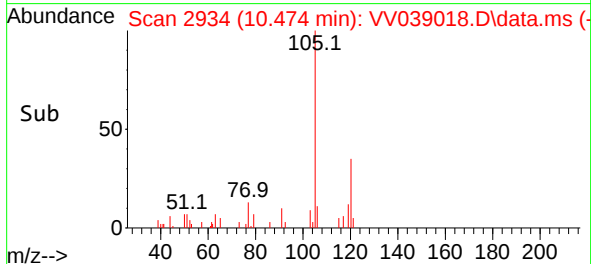
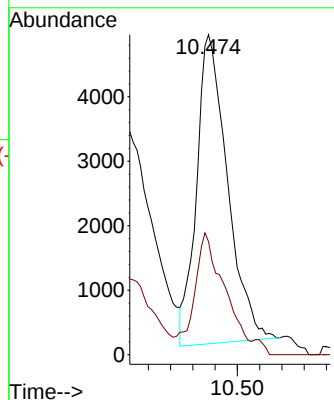
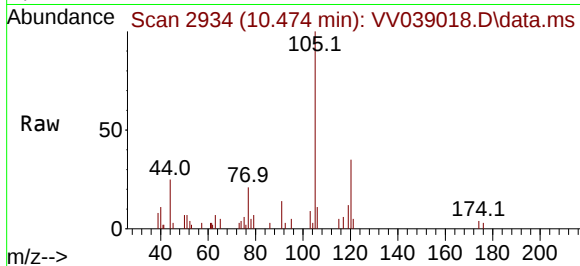




#80
1,3,5-Trimethylbenzene
Concen: 0.265 ug/l
RT: 10.474 min Scan# 2931
Delta R.T. 0.010 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

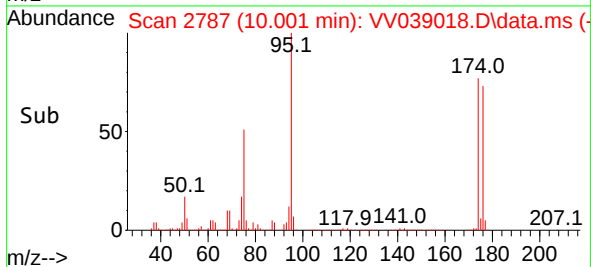
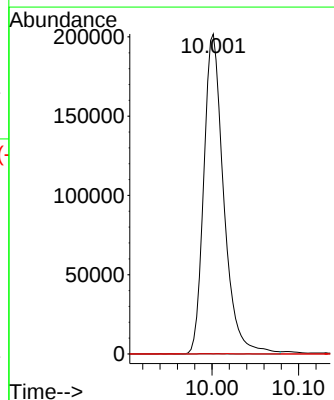
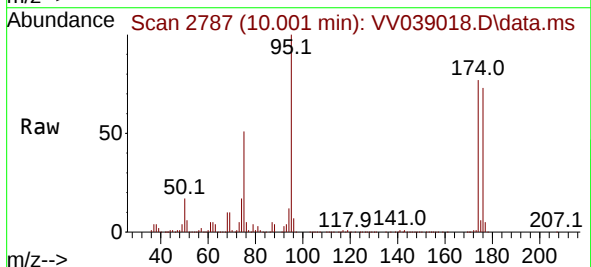
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

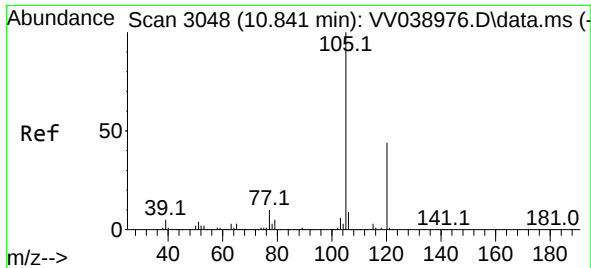
Tgt Ion:105 Resp: 9222
Ion Ratio Lower Upper
105 100
120 31.8 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 64.707 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion: 75 Resp: 322601
Ion Ratio Lower Upper
75 100
53 0.0 70.3 105.5#
89 0.0 37.9 56.9#

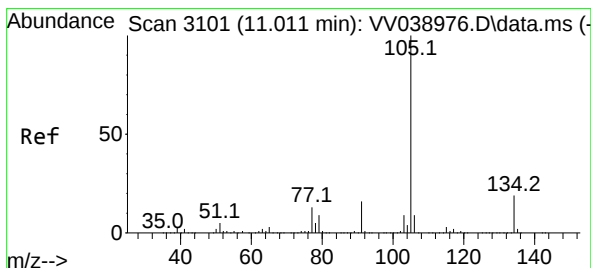
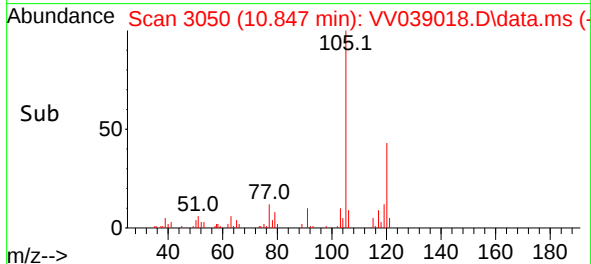
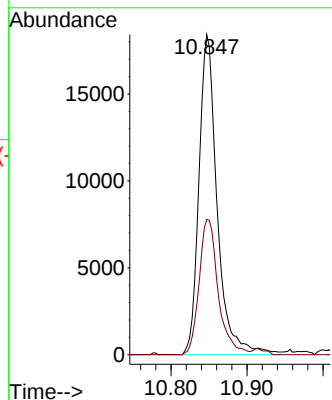
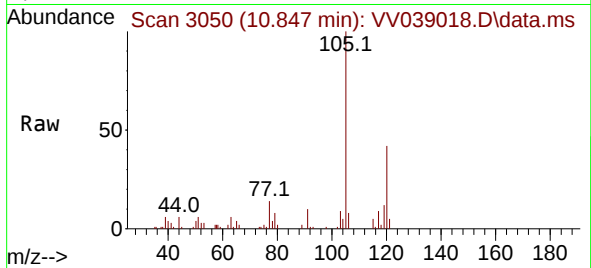




#84
1,2,4-Trimethylbenzene
Concen: 0.922 ug/l
RT: 10.847 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

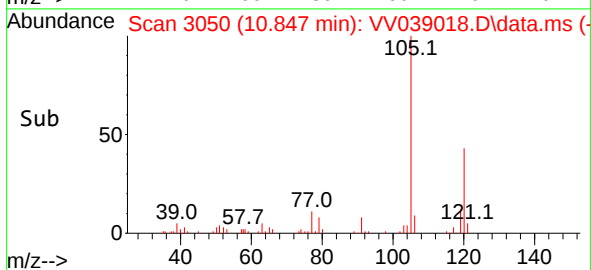
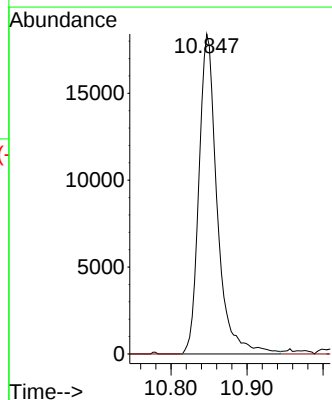
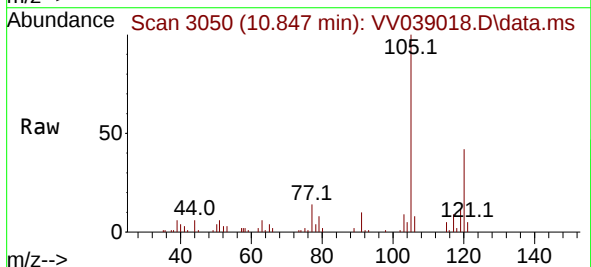
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025DL2

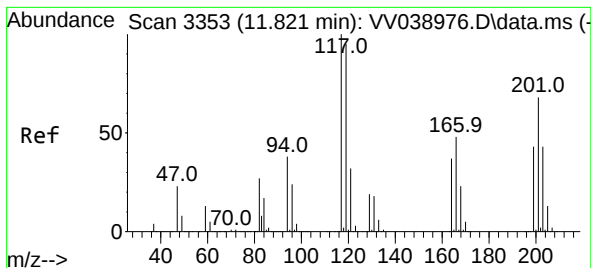
Tgt Ion:105 Resp: 30737
Ion Ratio Lower Upper
105 100
120 44.3 22.8 68.3



#85
sec-Butylbenzene
Concen: 0.683 ug/l
RT: 10.847 min Scan# 3050
Delta R.T. -0.164 min
Lab File: VV039018.D
Acq: 22 Aug 2025 15:27

Tgt Ion:105 Resp: 30737
Ion Ratio Lower Upper
105 100
134 0.0 9.9 29.7#





#90

Hexachloroethane

Concen: 5.242 ug/l

RT: 11.670 min Scan# 31

Delta R.T. -0.151 min

Lab File: VV039018.D

Acq: 22 Aug 2025 15:27

Instrument :

MSVOA_V

ClientSampleId :

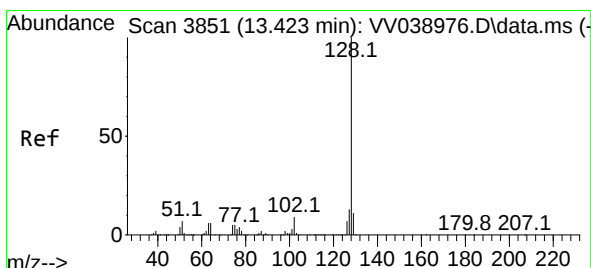
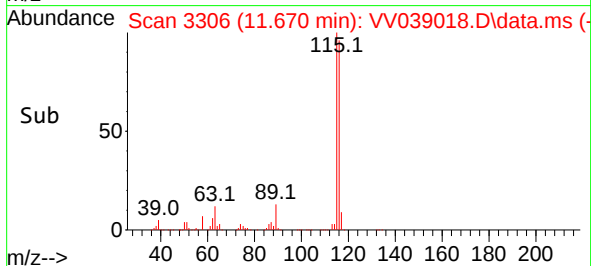
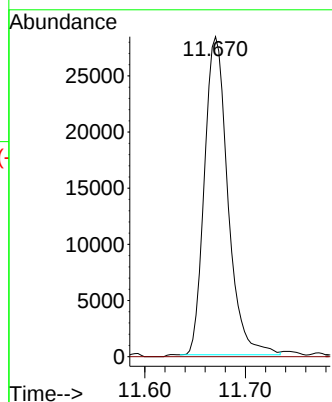
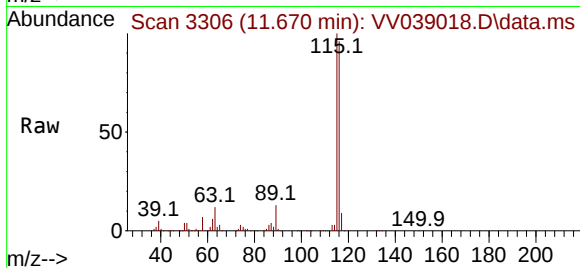
MW-201-082025DL2

Tgt Ion:117 Resp: 45908

Ion Ratio Lower Upper

117 100

201 0.0 33.7 101.0#



#95

Naphthalene

Concen: 20.106 ug/l

RT: 13.426 min Scan# 3852

Delta R.T. 0.003 min

Lab File: VV039018.D

Acq: 22 Aug 2025 15:27

Tgt Ion:128 Resp: 758488

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 10.6 8.5 12.7

