

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039177.D
 Acq On : 25 Sep 2025 13:40
 Operator : SY/MD
 Sample : Q3168-05
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

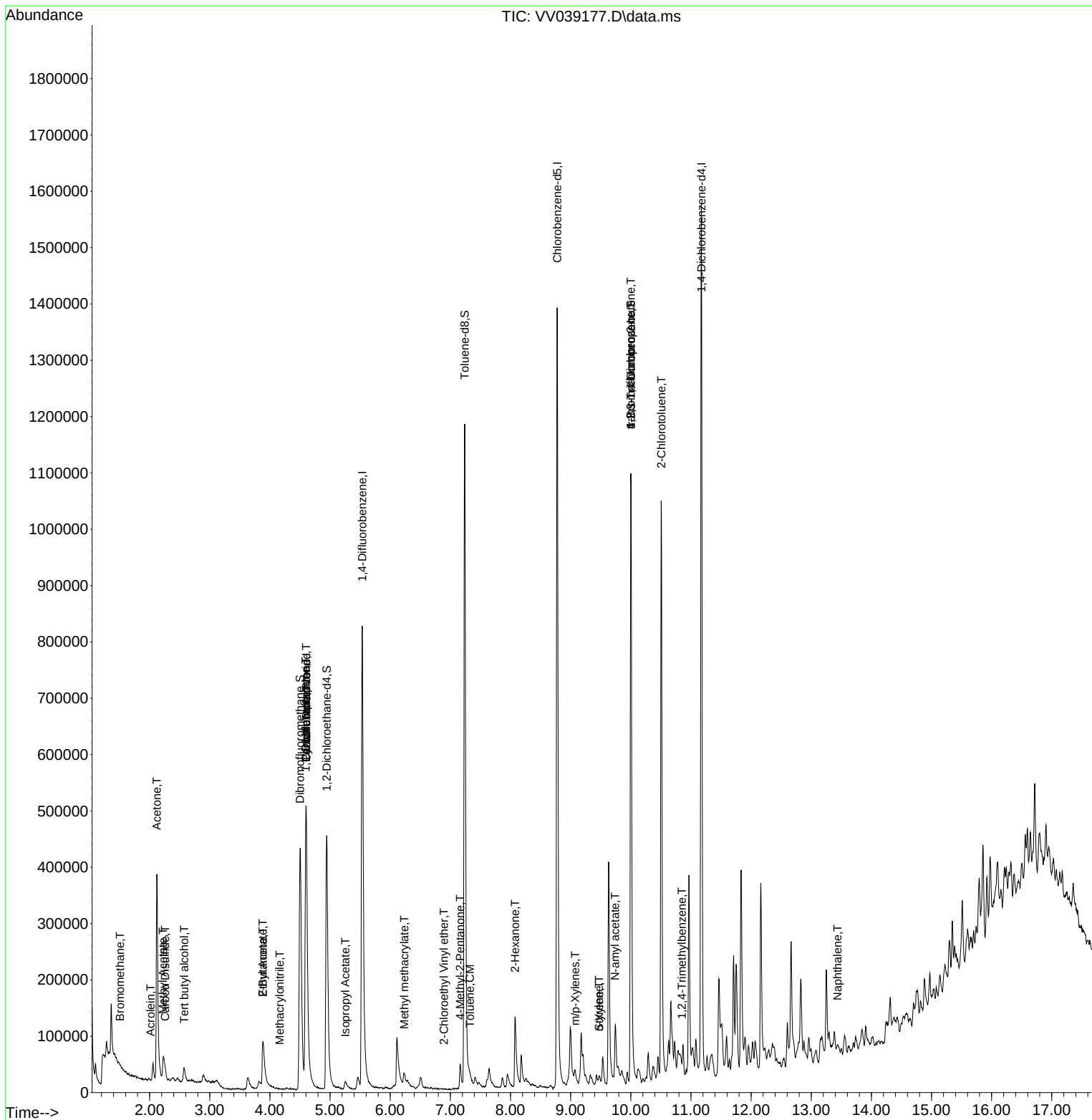
Quant Time: Sep 26 01:27:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

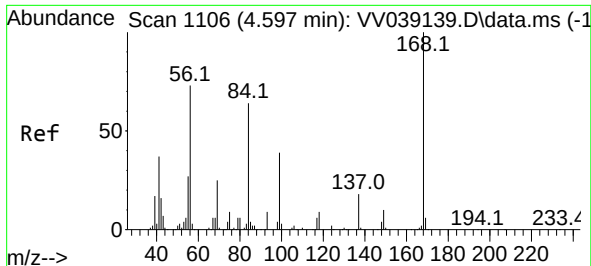
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.603	168	424278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	802353	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	790092	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	406442	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	405843	66.092	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 132.180%#	
35) Dibromofluoromethane	4.503	113	363530	56.359	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 112.720%	
50) Toluene-d8	7.239	98	866364	45.732	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 91.460%	
62) 4-Bromofluorobenzene	10.001	95	374455	48.014	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 96.020%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.506	94	1102	0.226	ug/l #	39
6) Chloroethane	1.770	64	1168	Below Cal	#	51
11) Tert butyl alcohol	2.574	59	28626	22.057	ug/l #	88
13) Acrolein	2.018	56	443	1.967	ug/l	84
16) Acetone	2.121	43	439192	109.225	ug/l	99
17) Carbon Disulfide	2.256	76	21890	1.119	ug/l	99
18) Methyl Acetate	2.223	43	15861	1.743	ug/l #	54
20) Methylene Chloride	2.461	84	2205	Below Cal	#	85
25) 2-Butanone	3.883	43	165528	33.663	ug/l	100
31) Cyclohexane	4.603	56	10203	0.932	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	38578	3.956	ug/l #	45
37) Ethyl Acetate	3.883	43	165528	13.988	ug/l #	71
38) Carbon Tetrachloride	4.603	117	46366	3.890	ug/l #	16
41) Methacrylonitrile	4.162	41	64	1.922	ug/l #	45
43) Isopropyl Acetate	5.252	43	5898	0.366	ug/l #	71
48) Methyl methacrylate	6.236	41	7438	1.017	ug/l #	32
51) 4-Methyl-2-Pentanone	7.165	43	28490	2.684	ug/l	92
52) Toluene	7.326	92	5165	0.281	ug/l	90
58) 2-Chloroethyl Vinyl ether	6.892	63	74	9.636	ug/l	96
59) 2-Hexanone	8.079	43	97296	13.576	ug/l	95
68) m/p-Xylenes	9.075	106	7809	0.607	ug/l	83
69) o-Xylene	9.474	106	3531	0.310	ug/l	92
70) Styrene	9.474	104	271	1.572	ug/l #	1
74) N-amyl acetate	9.741	43	16714	1.421	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	184894	19.980	ug/l #	56
79) 2-Chlorotoluene	10.509	91	6520	0.304	ug/l	82
81) trans-1,4-Dichloro-2-b...	10.001	75	184894	47.965	ug/l #	13
84) 1,2,4-Trimethylbenzene	10.850	105	8250	0.347	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.358	75	233	Below Cal	#	15
95) Naphthalene	13.435	128	15931	0.595	ug/l #	91

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

Quant Time: Sep 26 01:27:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

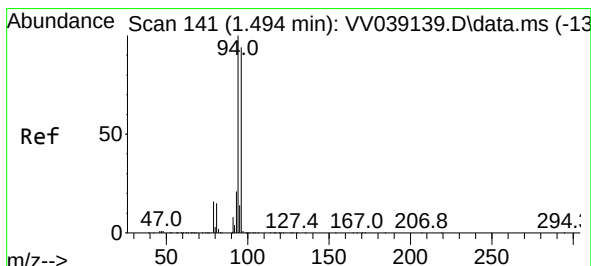
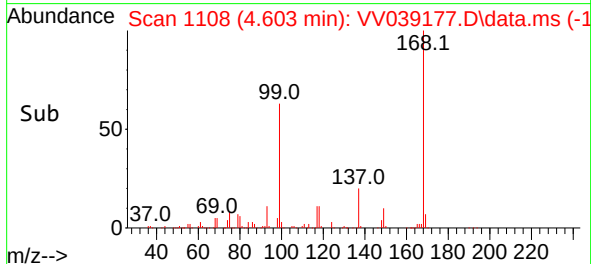
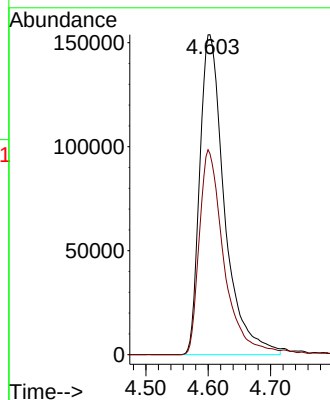
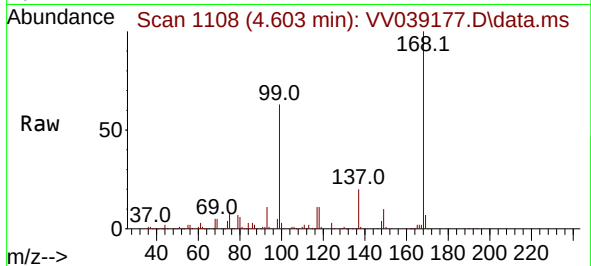




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

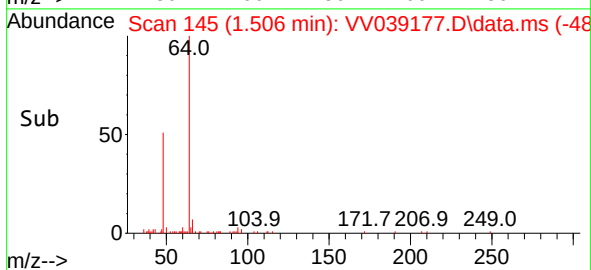
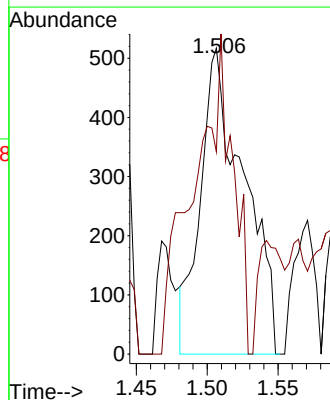
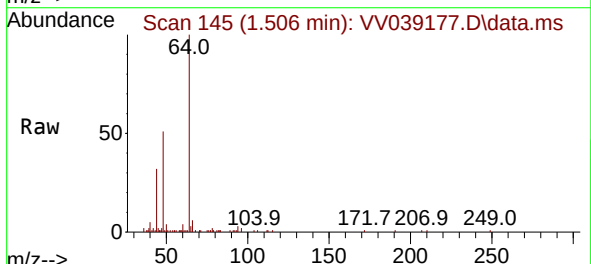
Instrument :
MSVOA_V
ClientSampleId :

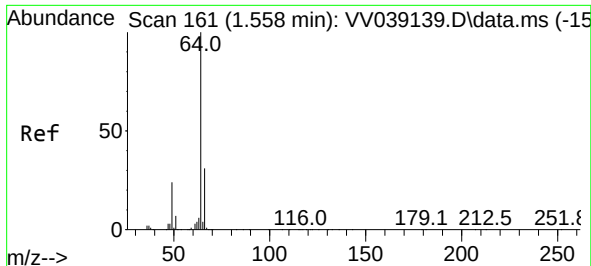
Tgt Ion:168 Resp: 424278
Ion Ratio Lower Upper
168 100
99 62.8 49.6 74.4



#5
Bromomethane
Concen: 0.226 ug/l
RT: 1.506 min Scan# 145
Delta R.T. 0.012 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 94 Resp: 1102
Ion Ratio Lower Upper
94 100
96 35.0 74.9 112.3#

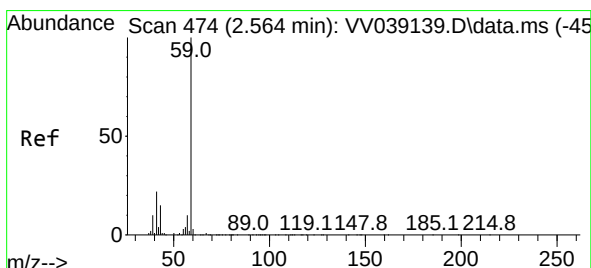
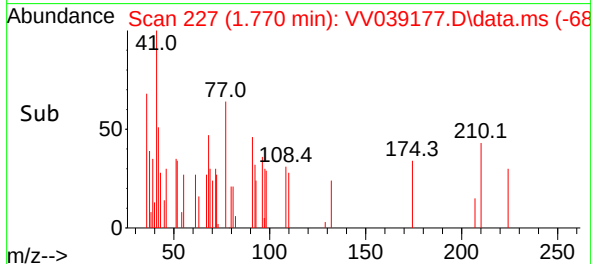
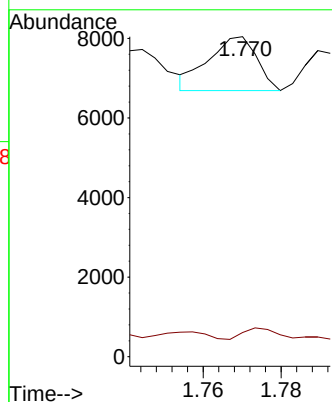
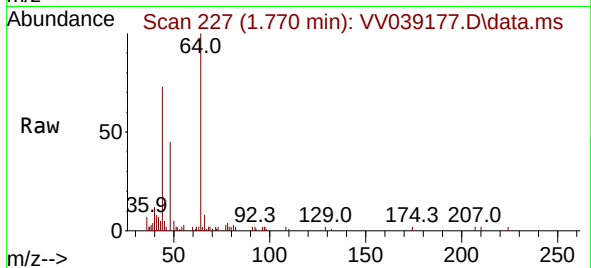




#6
Chloroethane
Concen: Below Cal
RT: 1.770 min Scan# 21
Delta R.T. 0.212 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

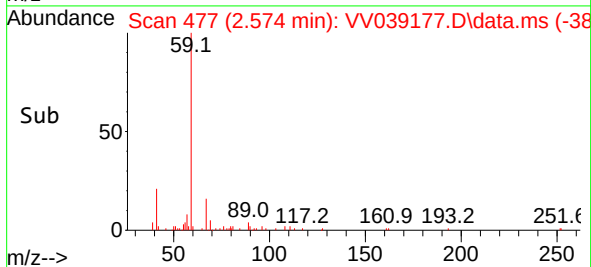
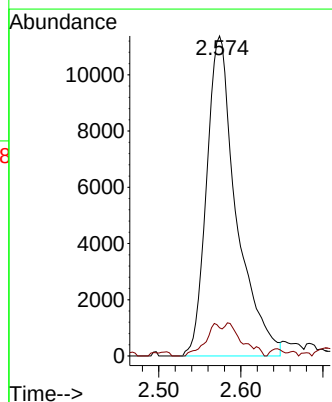
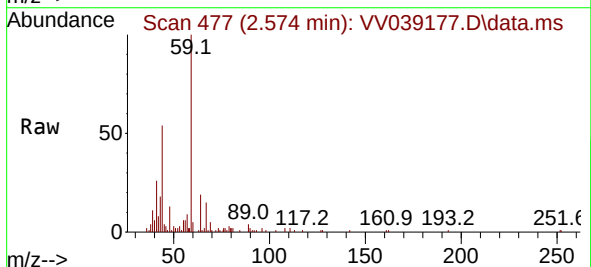
Instrument :
MSVOA_V
ClientSampleId :

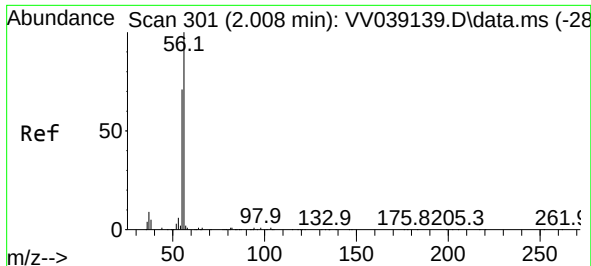
Tgt Ion: 64 Resp: 1168
Ion Ratio Lower Upper
64 100
66 4.0 24.6 36.8#



#11
Tert butyl alcohol
Concen: 22.057 ug/l
RT: 2.574 min Scan# 477
Delta R.T. 0.009 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 59 Resp: 28626
Ion Ratio Lower Upper
59 100
57 5.5 7.8 11.8#

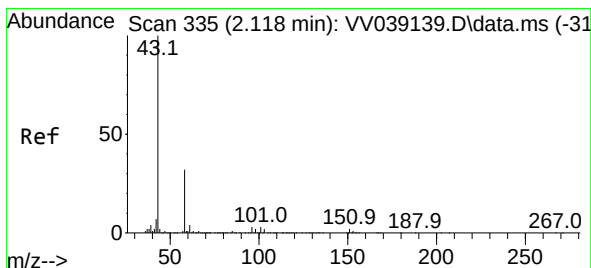
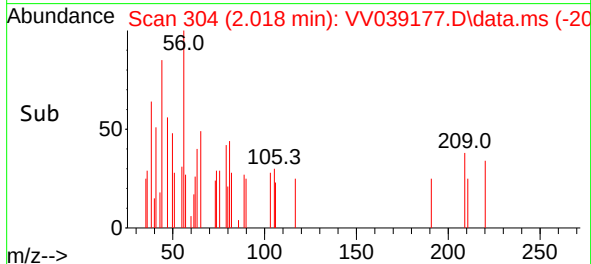
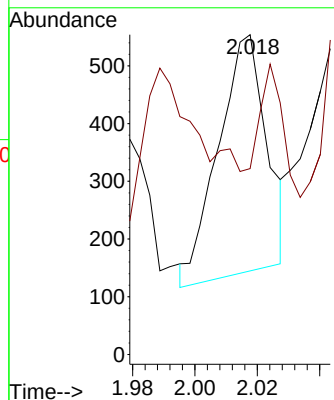
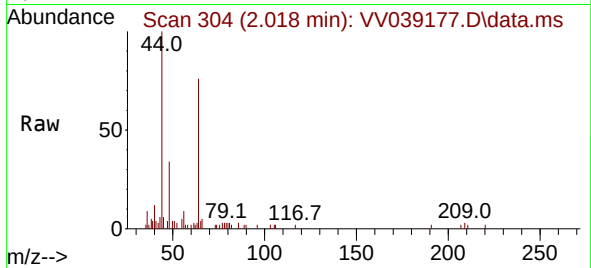




#13
Acrolein
Concen: 1.967 ug/l
RT: 2.018 min Scan# 301
Delta R.T. 0.009 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

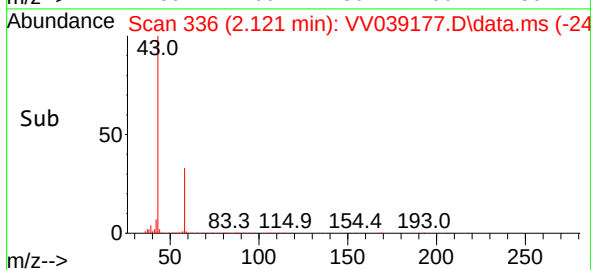
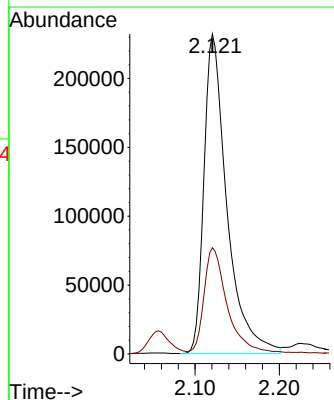
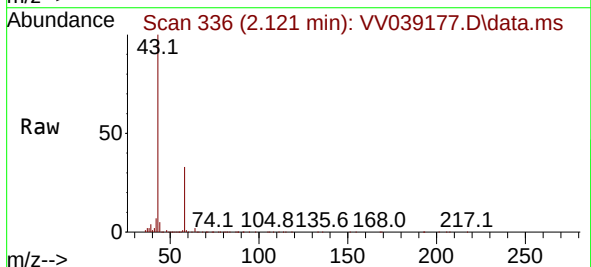
Instrument :
MSVOA_V
ClientSampleId :

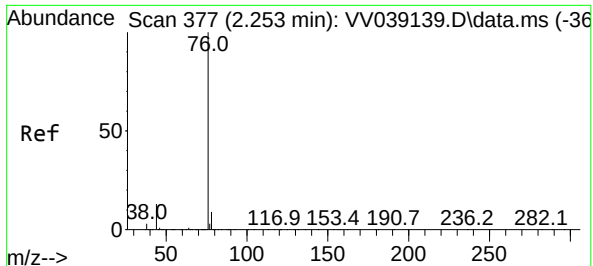
Tgt Ion: 56 Resp: 443
Ion Ratio Lower Upper
56 100
55 56.9 56.2 84.4



#16
Acetone
Concen: 109.225 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 43 Resp: 439192
Ion Ratio Lower Upper
43 100
58 32.5 25.8 38.6

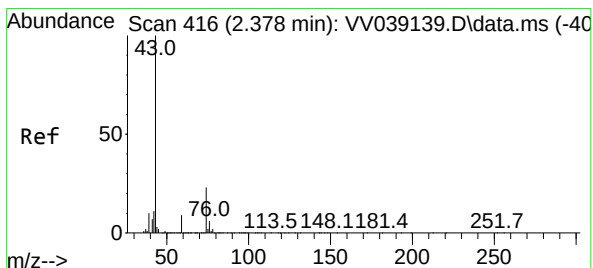
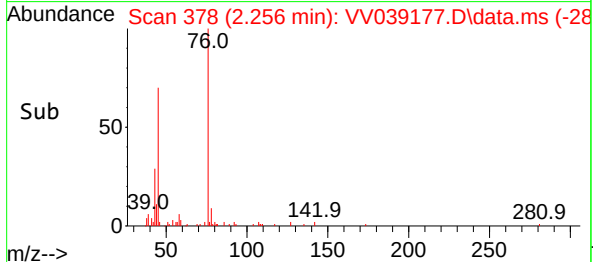
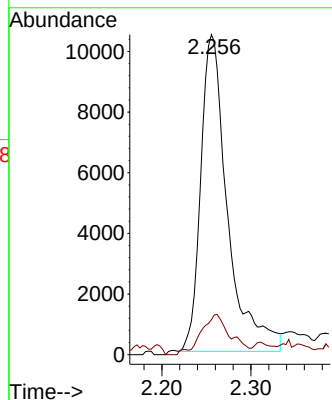
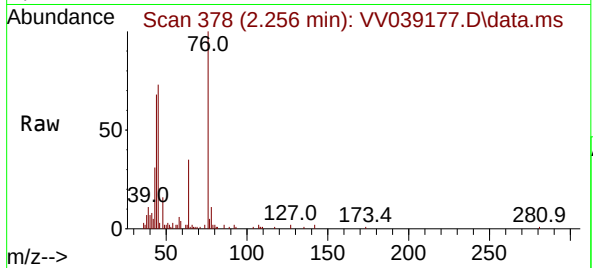




#17
Carbon Disulfide
Concen: 1.119 ug/l
RT: 2.256 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

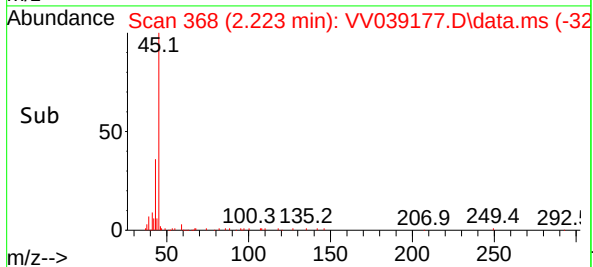
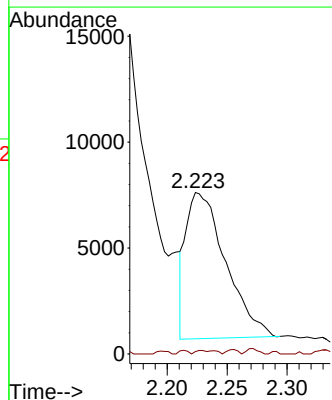
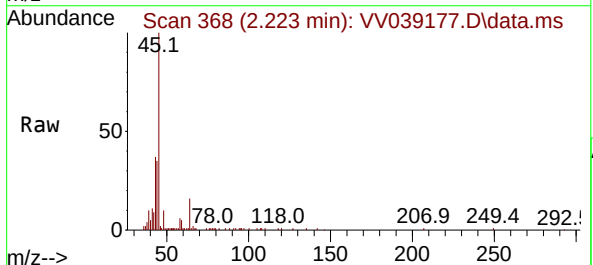
Instrument :
MSVOA_V
ClientSampleId :

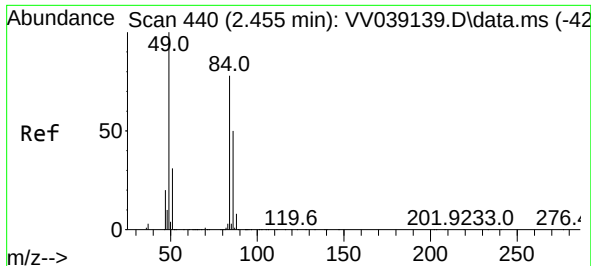
Tgt Ion: 76 Resp: 21890
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0



#18
Methyl Acetate
Concen: 1.743 ug/l
RT: 2.223 min Scan# 368
Delta R.T. -0.155 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

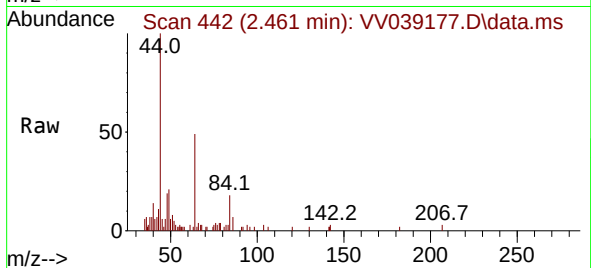
Tgt Ion: 43 Resp: 15861
Ion Ratio Lower Upper
43 100
74 0.7 18.6 27.8#



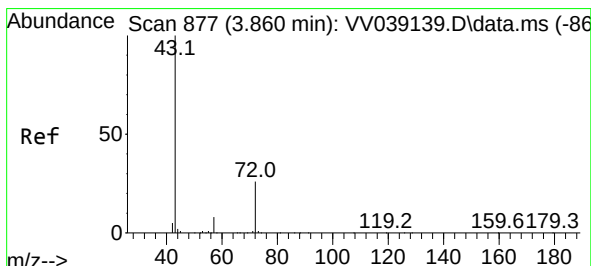
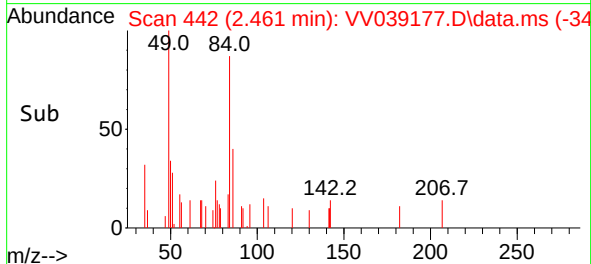
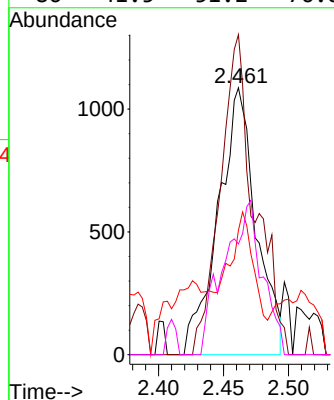


#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Instrument :
MSVOA_V
ClientSampleId :

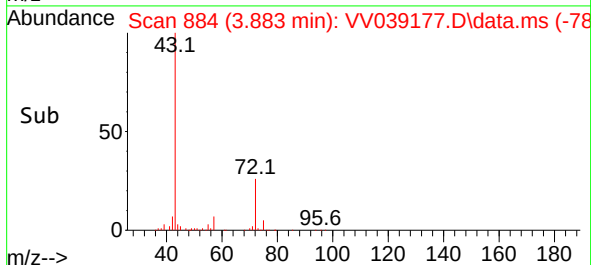
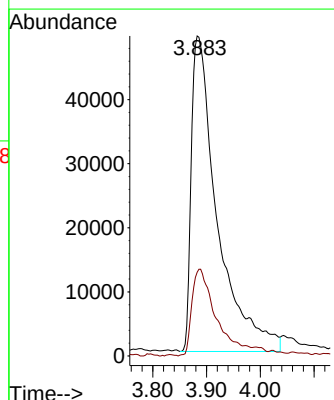
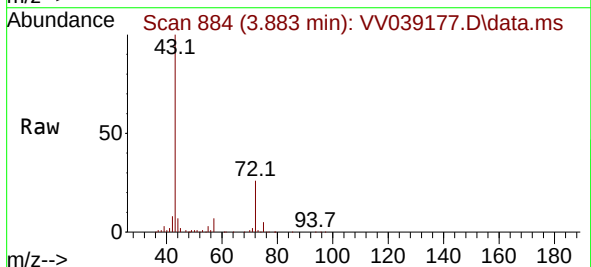


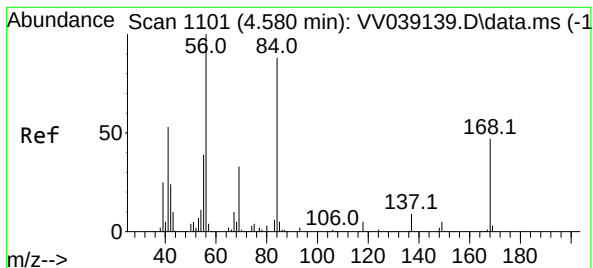
Tgt Ion: 84 Resp: 2205
Ion Ratio Lower Upper
84 100
49 119.9 102.8 154.2
51 27.5 31.9 47.9#
86 41.5 51.2 76.8#



#25
2-Butanone
Concen: 33.663 ug/l
RT: 3.883 min Scan# 884
Delta R.T. 0.022 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 43 Resp: 165528
Ion Ratio Lower Upper
43 100
72 26.3 21.0 31.6





#31

Cyclohexane

Concen: 0.932 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.022 min

Lab File: VV039177.D

Acq: 25 Sep 2025 13:40

Instrument :

MSVOA_V

ClientSampleId :

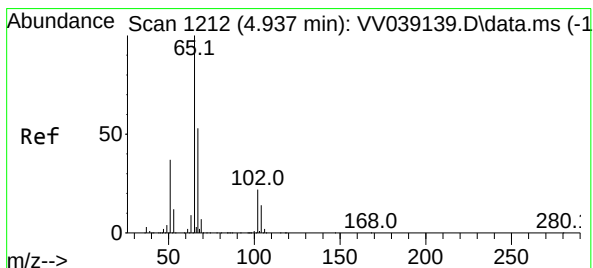
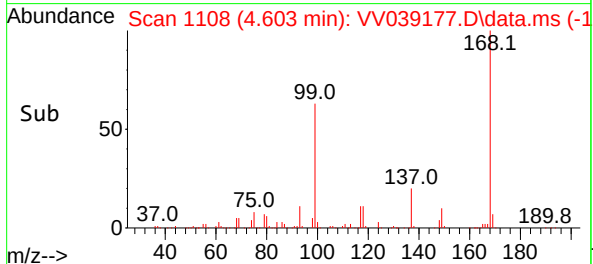
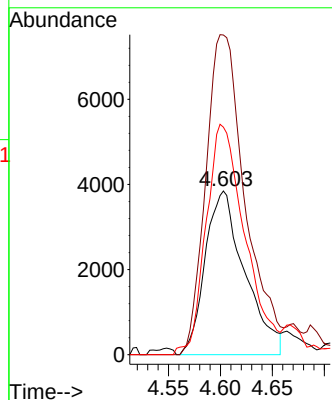
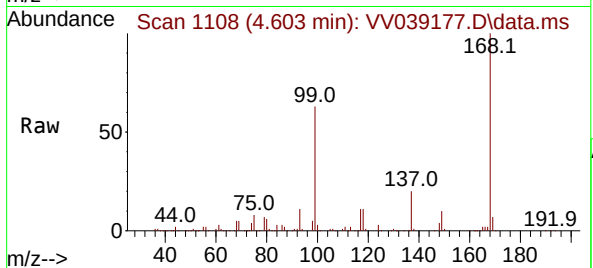
Tgt Ion: 56 Resp: 10203

Ion Ratio Lower Upper

56 100

69 195.3 26.2 39.2#

84 134.5 70.3 105.5#



#33

1,2-Dichloroethane-d4

Concen: 66.092 ug/l

RT: 4.944 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VV039177.D

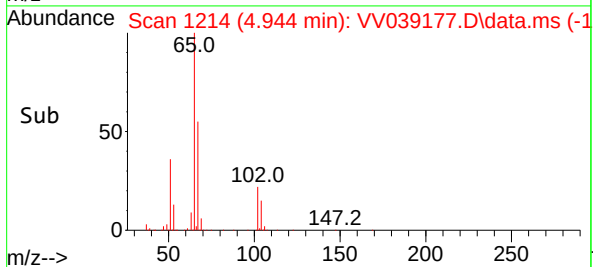
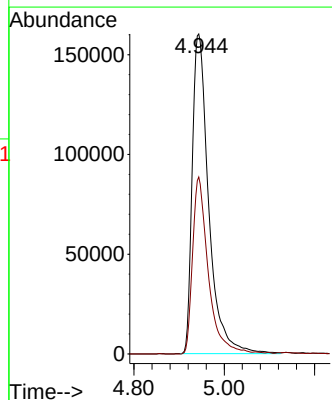
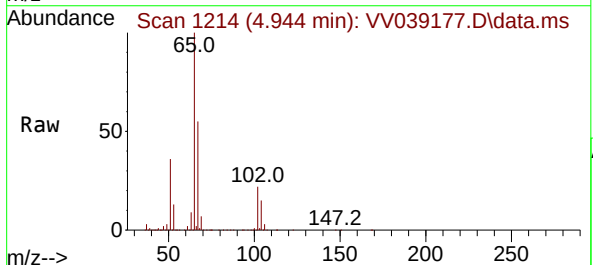
Acq: 25 Sep 2025 13:40

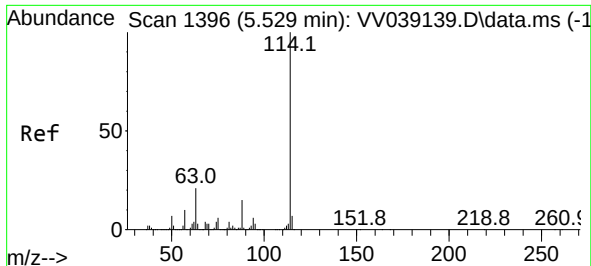
Tgt Ion: 65 Resp: 405843

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039177.D

Acq: 25 Sep 2025 13:40

Instrument :

MSVOA_V

ClientSampleId :

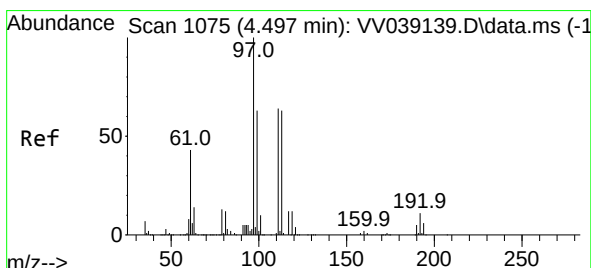
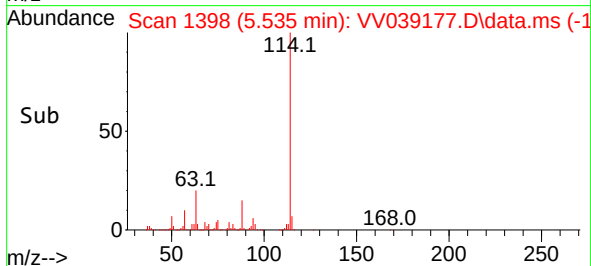
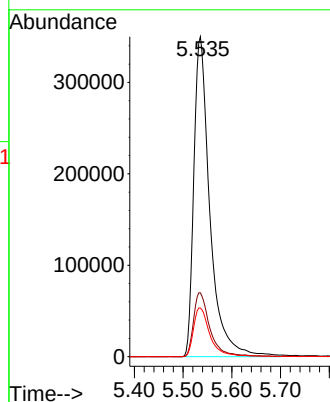
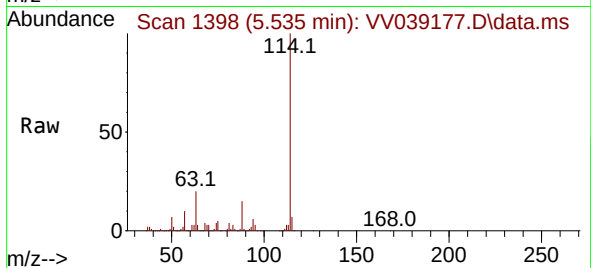
Tgt Ion:114 Resp: 802353

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

88 15.2 0.0 30.8



#35

Dibromofluoromethane

Concen: 56.359 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039177.D

Acq: 25 Sep 2025 13:40

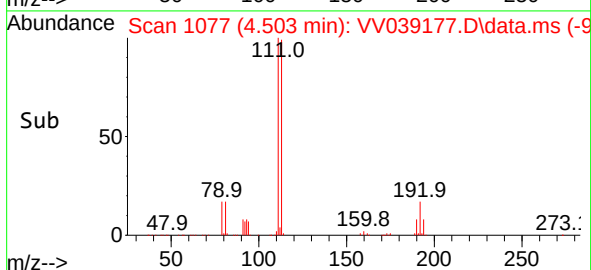
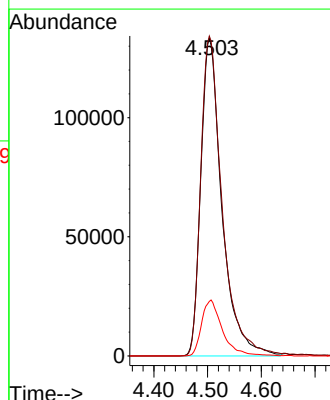
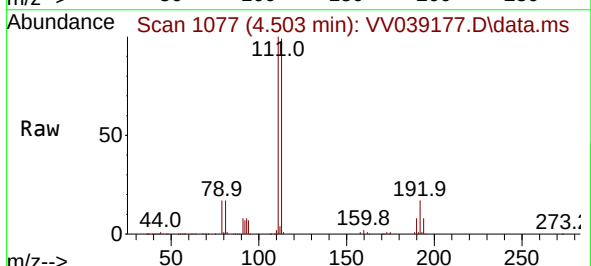
Tgt Ion:113 Resp: 363530

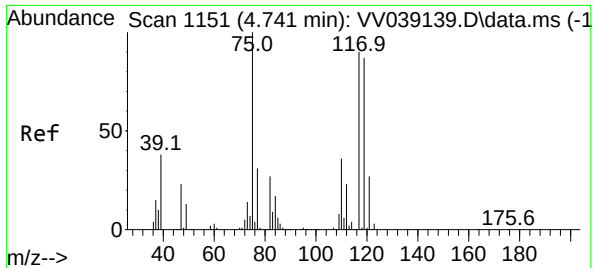
Ion Ratio Lower Upper

113 100

111 102.1 82.4 123.6

192 17.4 13.8 20.8

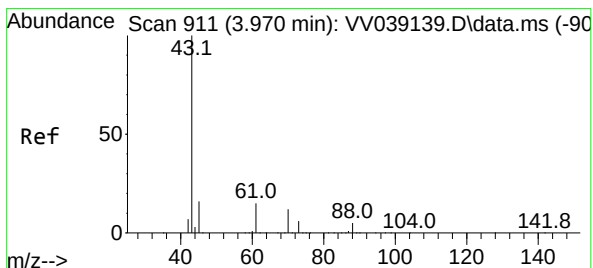
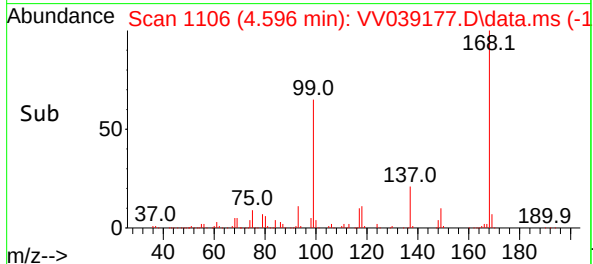
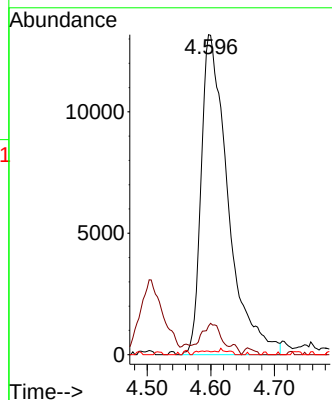
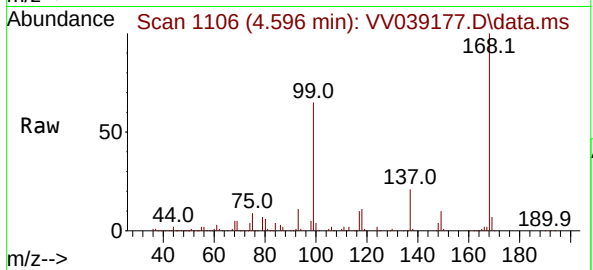




#36
1,1-Dichloropropene
Concen: 3.956 ug/l
RT: 4.596 min Scan# 1151
Delta R.T. -0.145 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

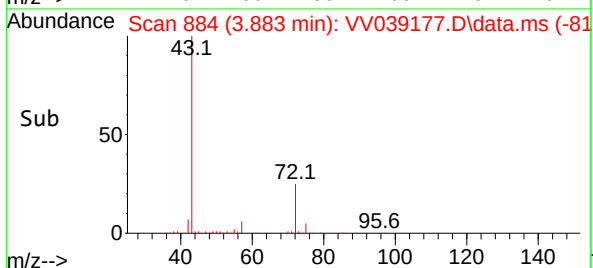
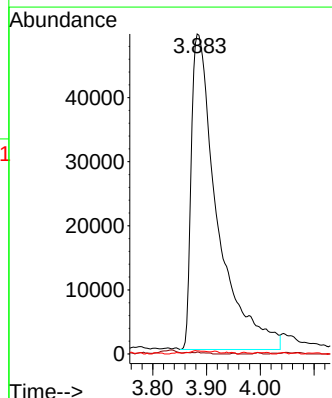
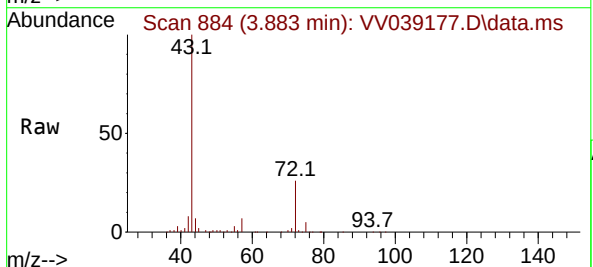
Instrument :
MSVOA_V
ClientSampleId :

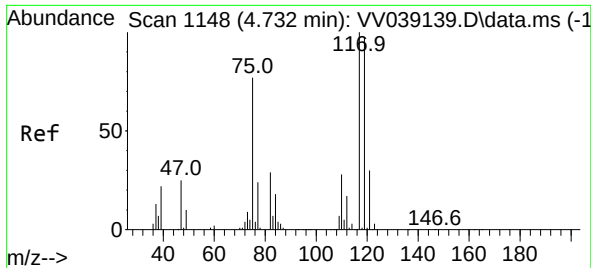
Tgt Ion: 75 Resp: 38578
Ion Ratio Lower Upper
75 100
110 4.2 18.1 54.1#
77 0.6 24.8 37.2#



#37
Ethyl Acetate
Concen: 13.988 ug/l
RT: 3.883 min Scan# 884
Delta R.T. -0.087 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

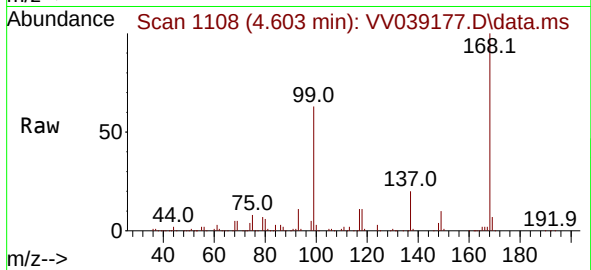
Tgt Ion: 43 Resp: 165528
Ion Ratio Lower Upper
43 100
61 0.2 10.3 15.5#
70 0.5 8.0 12.0#



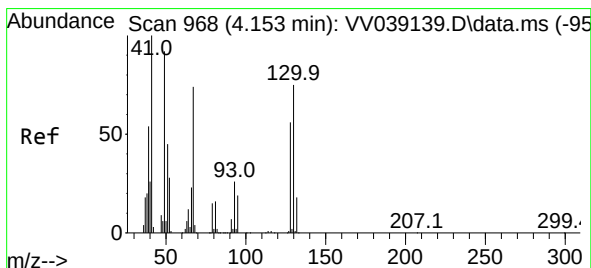
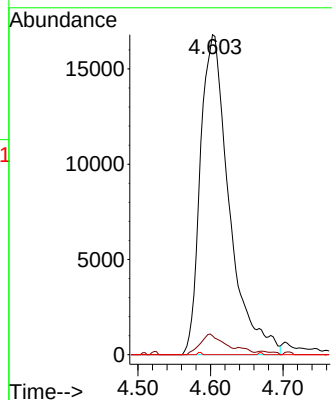
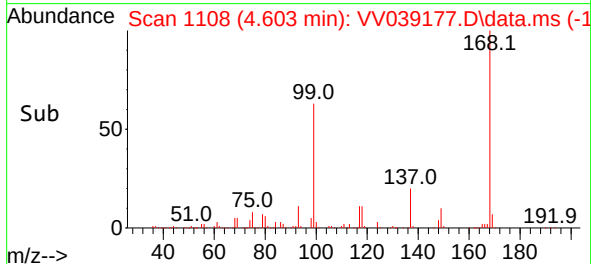


#38
Carbon Tetrachloride
Concen: 3.890 ug/l
RT: 4.603 min Scan# 1148
Delta R.T. -0.129 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Instrument :
MSVOA_V
ClientSampleId :

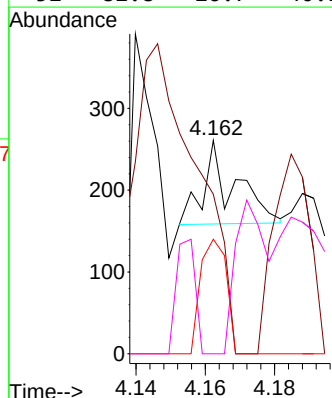
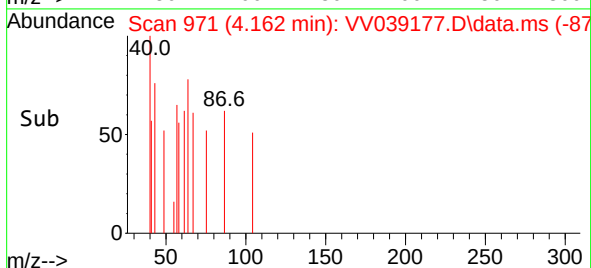
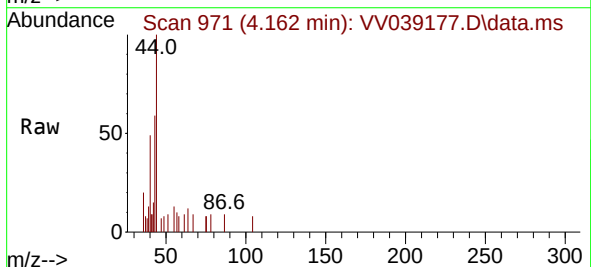


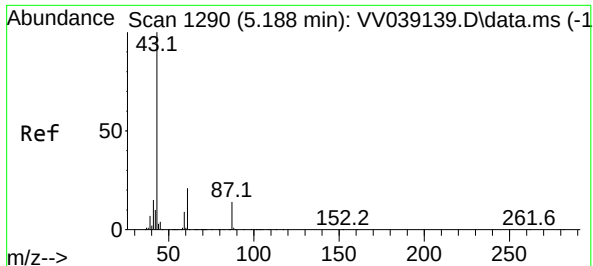
Tgt Ion:117 Resp: 46366
Ion Ratio Lower Upper
117 100
119 5.9 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.922 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.009 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 41 Resp: 64
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 112.5 67.9 101.9#
52 82.8 26.7 40.1#





#43

Isopropyl Acetate

Concen: 0.366 ug/l

RT: 5.252 min Scan# 11

Delta R.T. 0.064 min

Lab File: VV039177.D

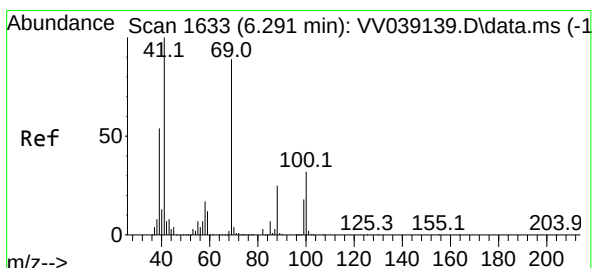
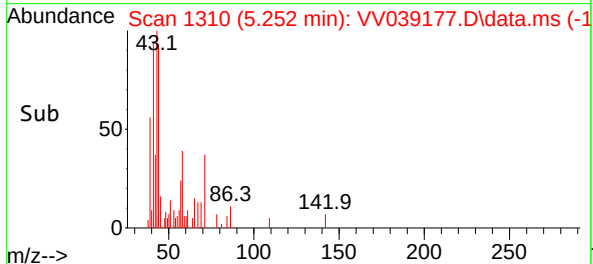
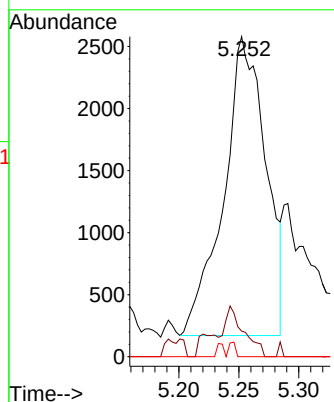
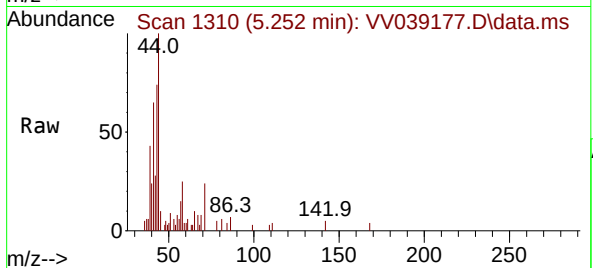
Acq: 25 Sep 2025 13:40

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43	Resp: 5898
Ion Ratio	Lower Upper
43	100
61	7.7 15.9 23.9#
87	0.7 11.0 16.6#



#48

Methyl methacrylate

Concen: 1.017 ug/l

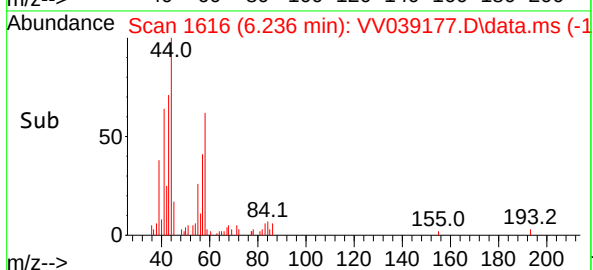
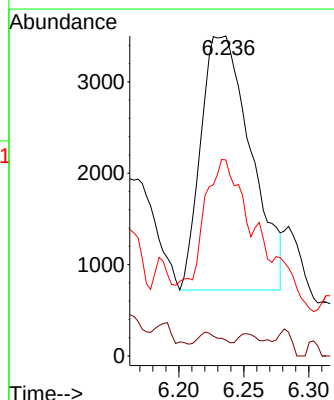
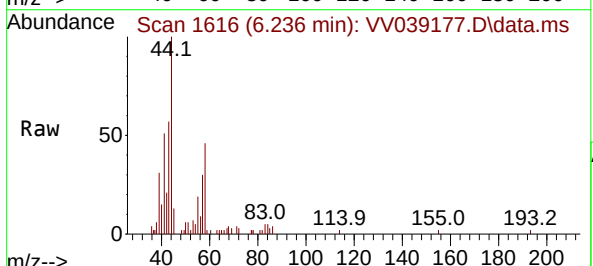
RT: 6.236 min Scan# 1616

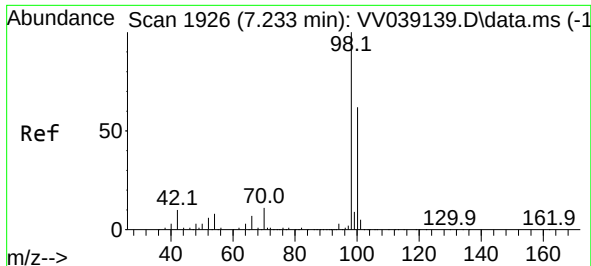
Delta R.T. -0.055 min

Lab File: VV039177.D

Acq: 25 Sep 2025 13:40

Tgt Ion: 41	Resp: 7438
Ion Ratio	Lower Upper
41	100
69	4.2 72.4 108.6#
39	33.0 42.5 63.7#

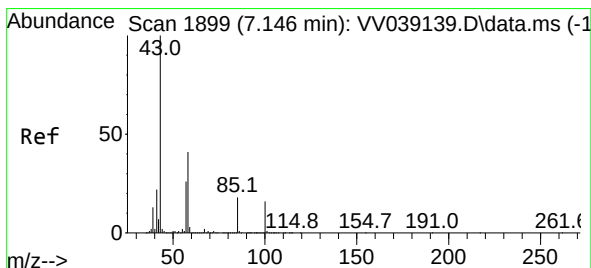
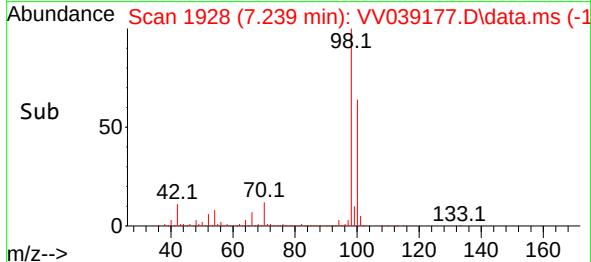
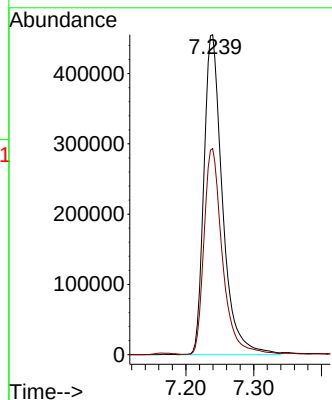
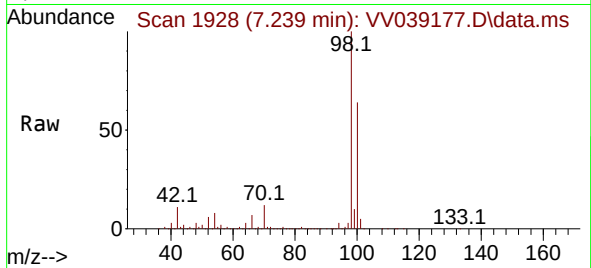




#50
Toluene-d8
Concen: 45.732 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

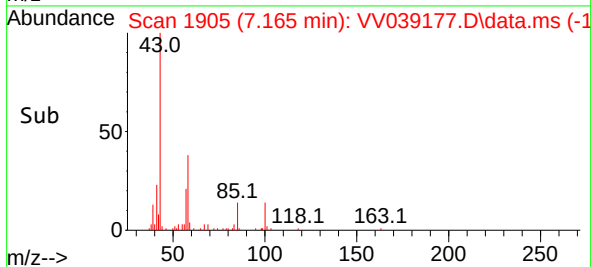
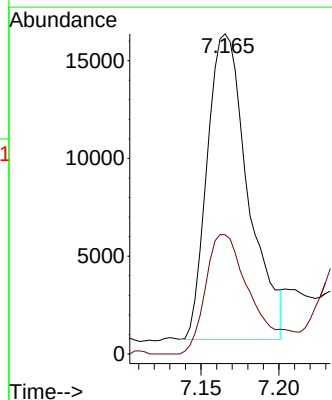
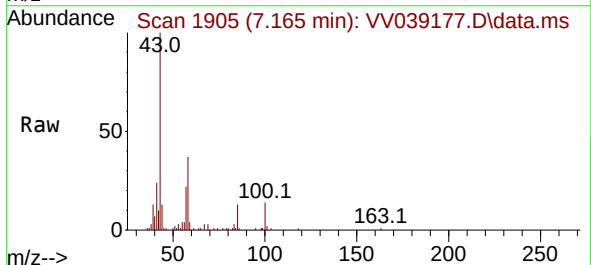
Instrument :
MSVOA_V
ClientSampleId :

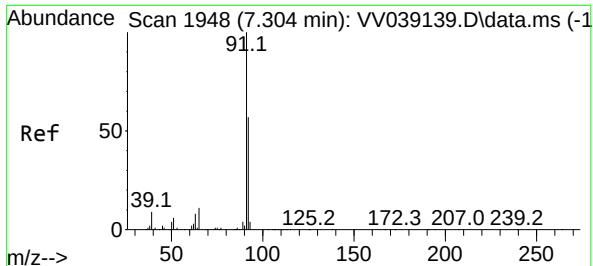
Tgt Ion: 98 Resp: 866364
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 2.684 ug/l
RT: 7.165 min Scan# 1905
Delta R.T. 0.019 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 43 Resp: 28490
Ion Ratio Lower Upper
43 100
58 45.2 32.3 48.5

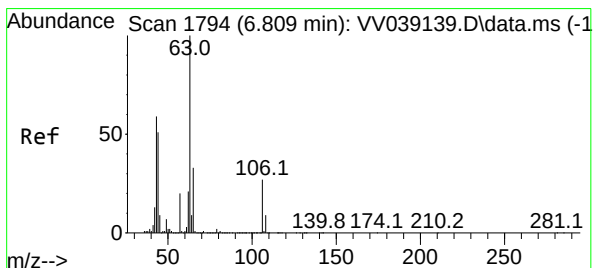
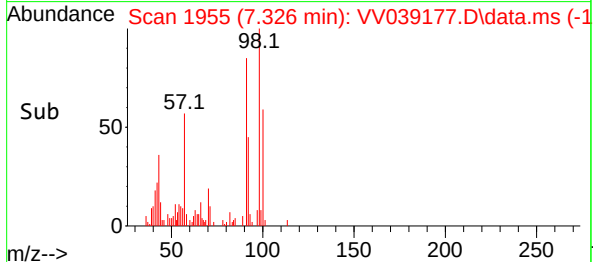
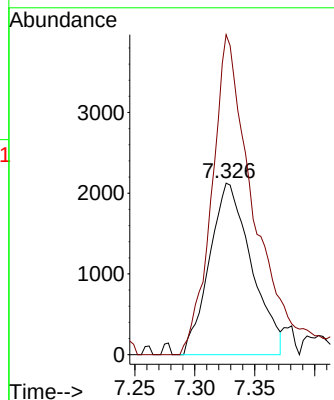
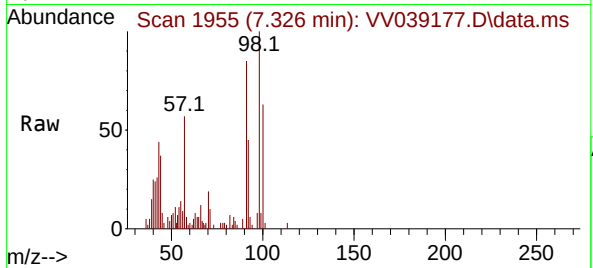




#52
Toluene
Concen: 0.281 ug/l
RT: 7.326 min Scan# 1948
Delta R.T. 0.022 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

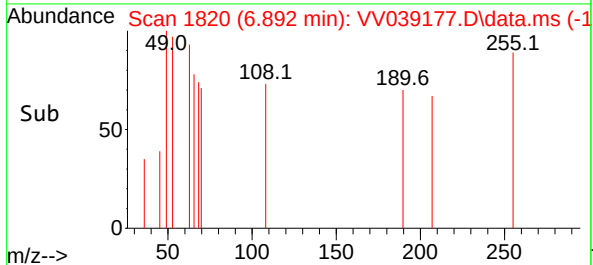
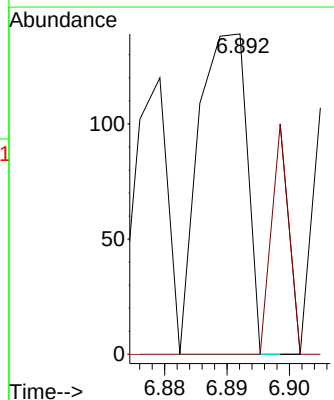
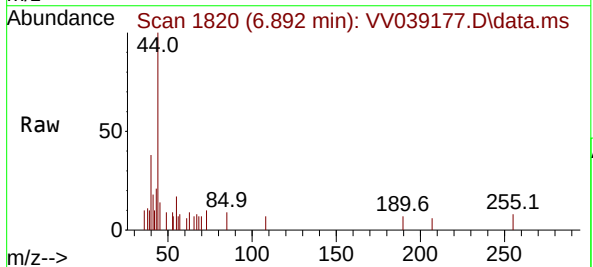
Instrument :
MSVOA_V
ClientSampleId :

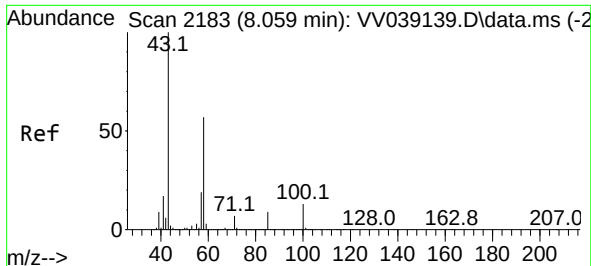
Tgt Ion: 92 Resp: 5165
Ion Ratio Lower Upper
92 100
91 187.5 139.2 208.8



#58
2-Chloroethyl Vinyl ether
Concen: 9.636 ug/l
RT: 6.892 min Scan# 1820
Delta R.T. 0.083 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 63 Resp: 74
Ion Ratio Lower Upper
63 100
106 25.7 22.1 33.1

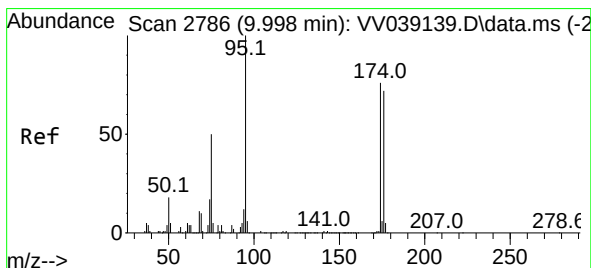
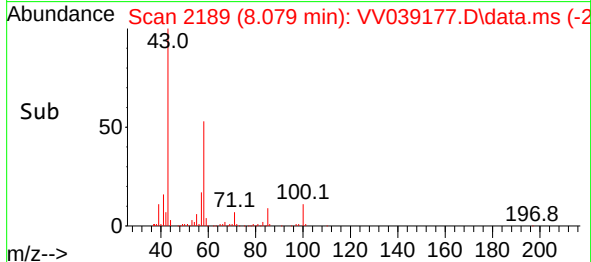
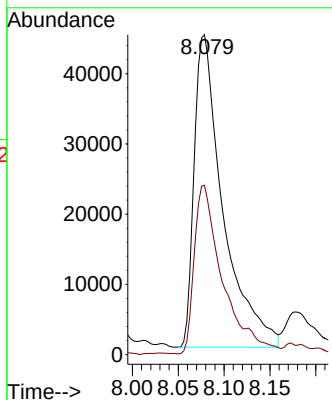
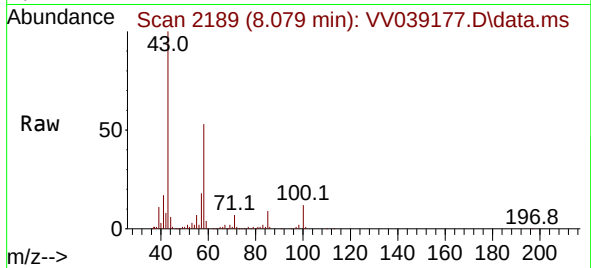




#59
2-Hexanone
Concen: 13.576 ug/l
RT: 8.079 min Scan# 2183
Delta R.T. 0.020 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

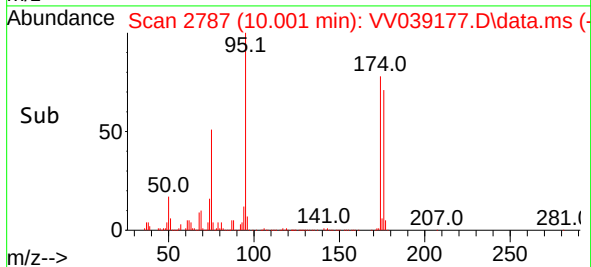
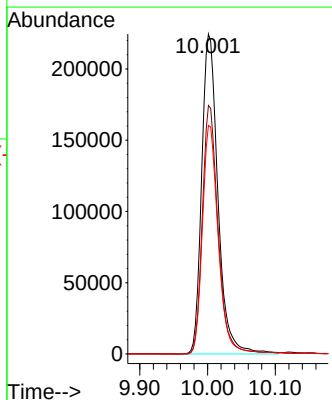
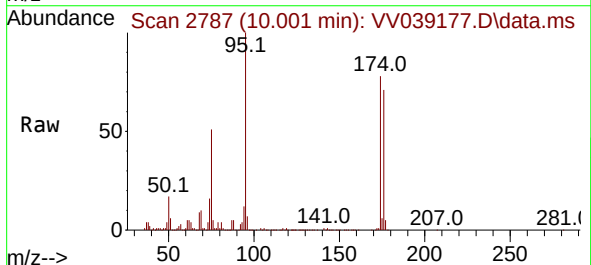
Instrument :
MSVOA_V
ClientSampleId :

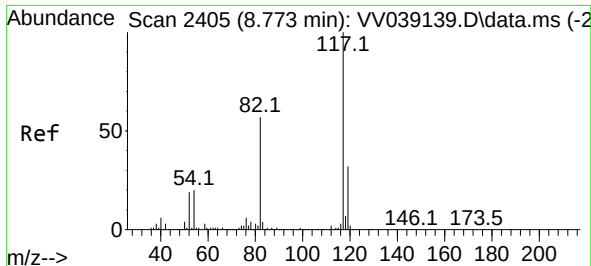
Tgt Ion: 43 Resp: 97296
Ion Ratio Lower Upper
43 100
58 53.2 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 48.014 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 95 Resp: 374455
Ion Ratio Lower Upper
95 100
174 75.1 0.0 150.4
176 69.8 0.0 144.2

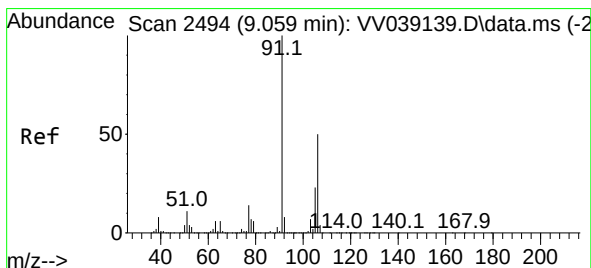
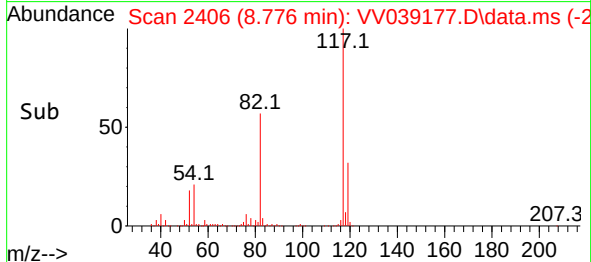
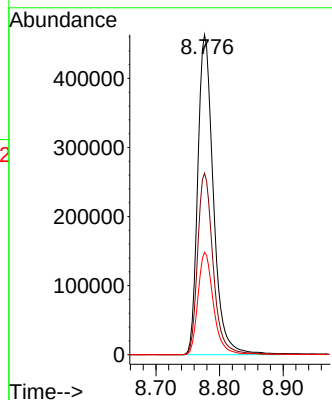
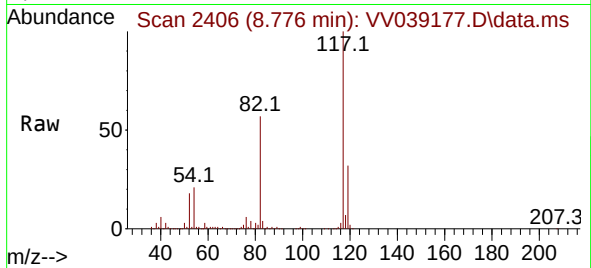




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

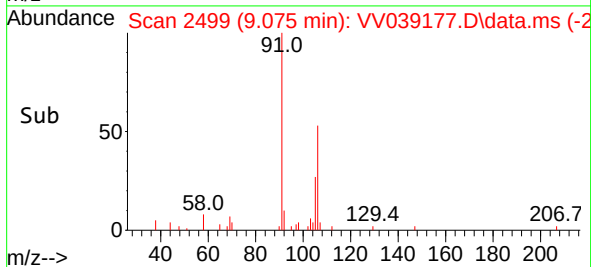
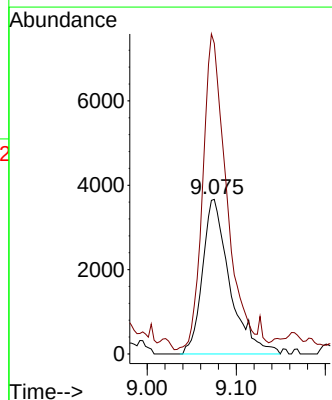
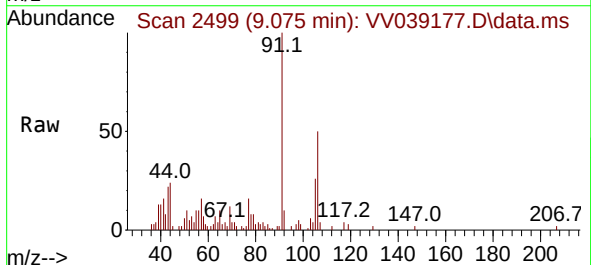
Instrument :
MSVOA_V
ClientSampleId :

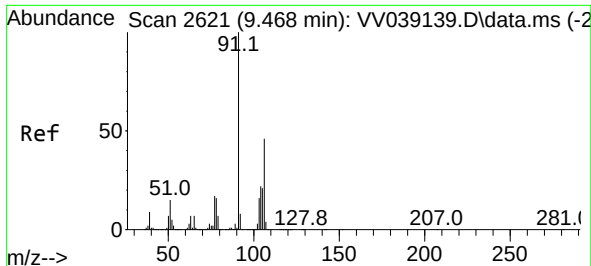
Tgt Ion:117 Resp: 790092
Ion Ratio Lower Upper
117 100
82 56.7 45.4 68.2
119 32.0 25.6 38.4



#68
m/p-Xylenes
Concen: 0.607 ug/l
RT: 9.075 min Scan# 2499
Delta R.T. 0.016 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion:106 Resp: 7809
Ion Ratio Lower Upper
106 100
91 176.9 162.5 243.7

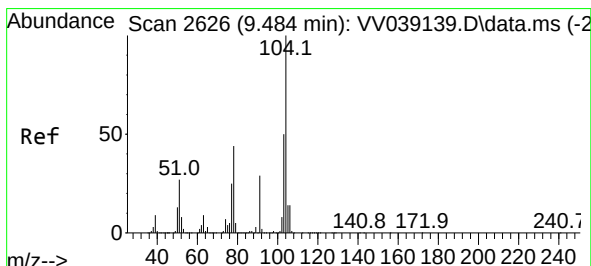
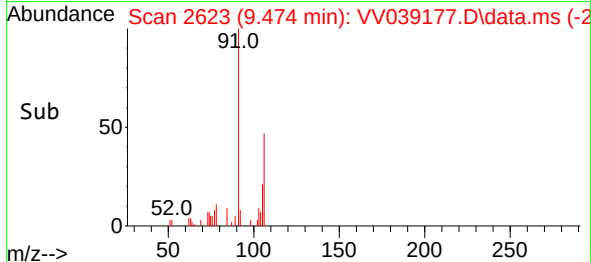
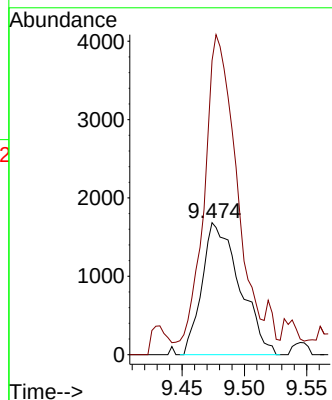
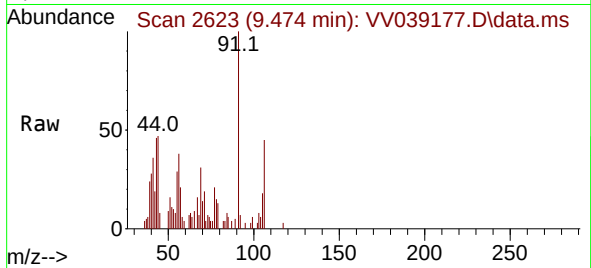




#69
o-Xylene
Concen: 0.310 ug/l
RT: 9.474 min Scan# 2623
Delta R.T. 0.006 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

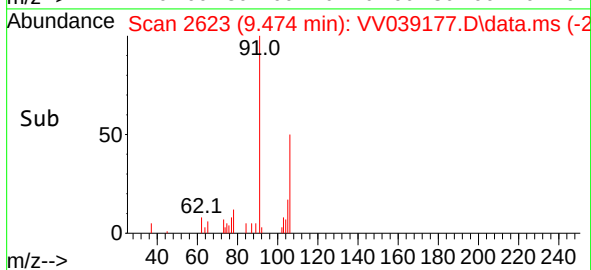
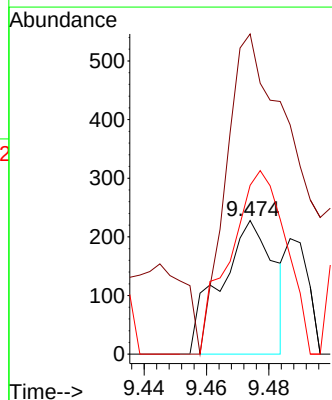
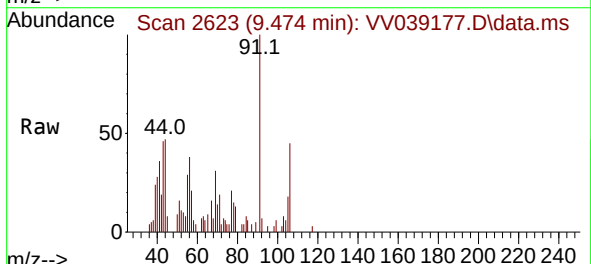
Instrument :
MSVOA_V
ClientSampleId :

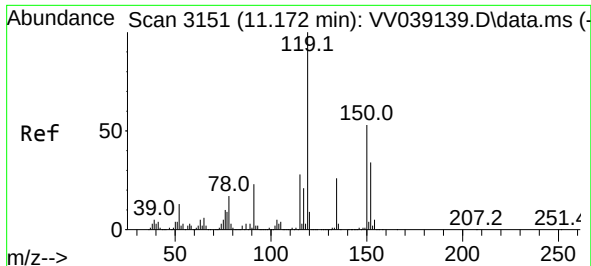
Tgt Ion:106 Resp: 3531
Ion Ratio Lower Upper
106 100
91 205.9 109.1 327.3



#70
Styrene
Concen: 1.572 ug/l
RT: 9.474 min Scan# 2623
Delta R.T. -0.010 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

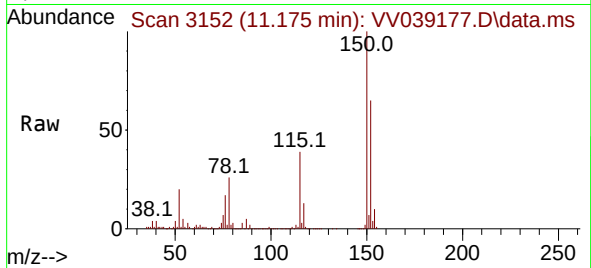
Tgt Ion:104 Resp: 271
Ion Ratio Lower Upper
104 100
78 306.6 39.8 59.6#
103 143.9 43.4 65.2#



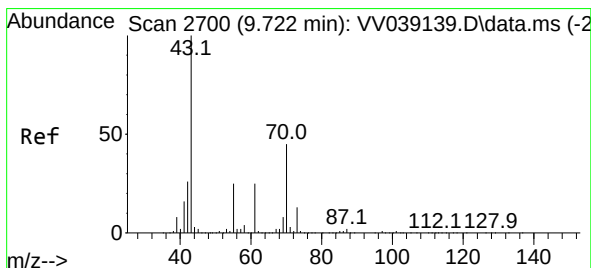
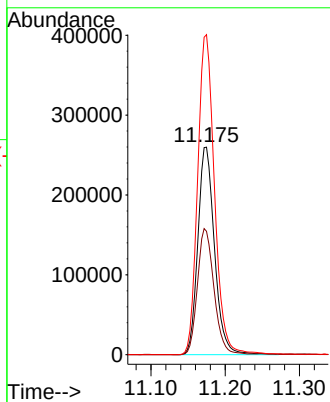
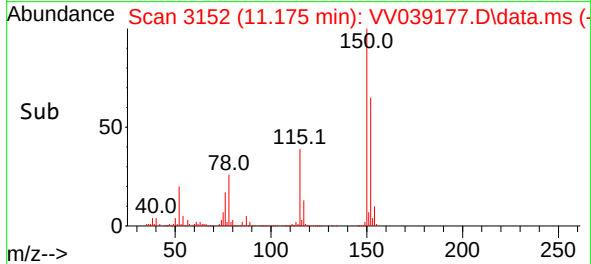


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039177.D
 Acq: 25 Sep 2025 13:40

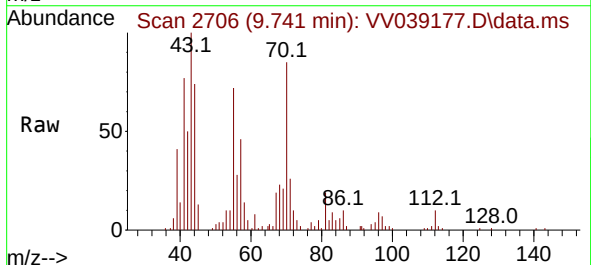
Instrument :
 MSVOA_V
 ClientSampleId :



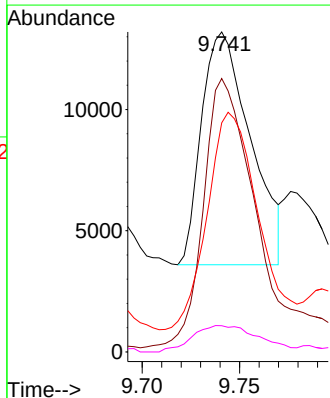
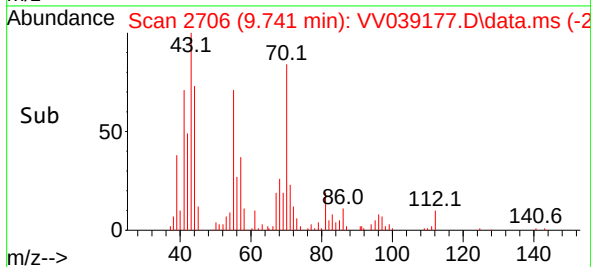
Tgt Ion:152 Resp: 406442
 Ion Ratio Lower Upper
 152 100
 115 60.4 44.8 134.4
 150 156.5 0.0 353.8

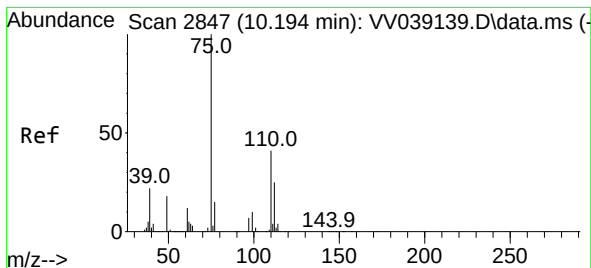


#74
 N-ethyl acetate
 Concen: 1.421 ug/l
 RT: 9.741 min Scan# 2706
 Delta R.T. 0.019 min
 Lab File: VV039177.D
 Acq: 25 Sep 2025 13:40



Tgt Ion: 43 Resp: 16714
 Ion Ratio Lower Upper
 43 100
 70 133.1 35.4 53.0#
 55 97.1 20.6 30.8#
 61 15.5 19.5 29.3#

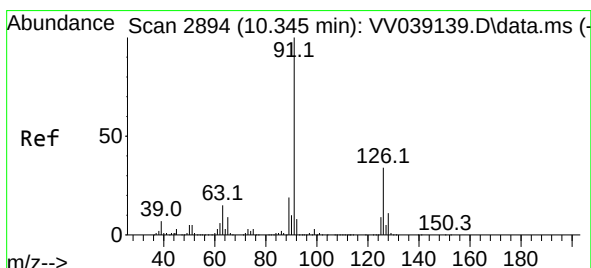
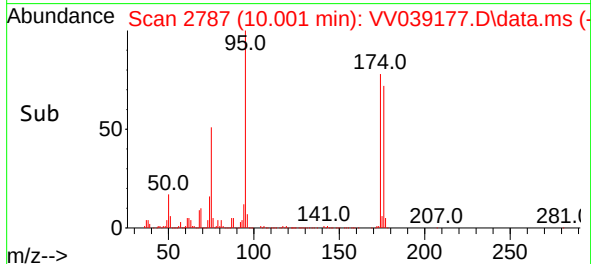
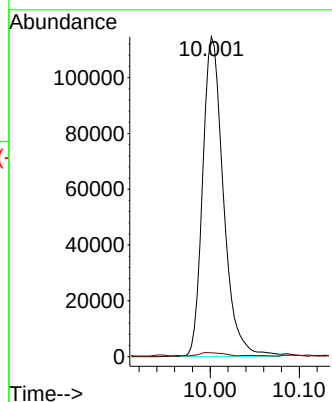
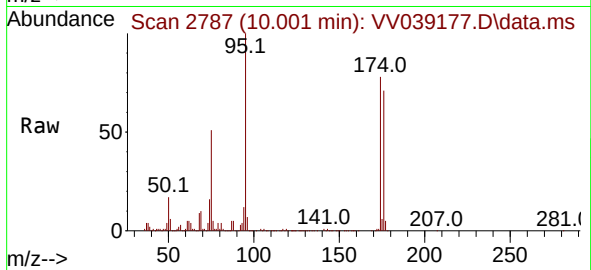




#76
1,2,3-Trichloropropane
Concen: 19.980 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.193 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

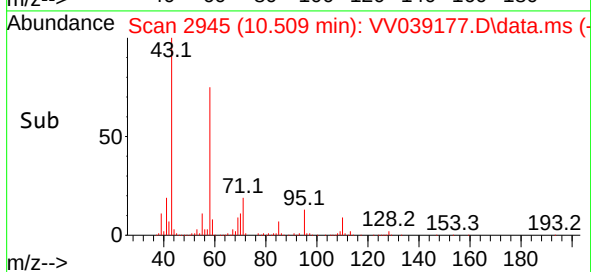
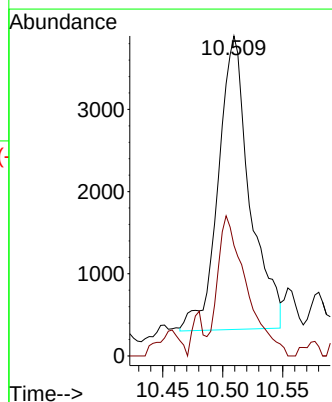
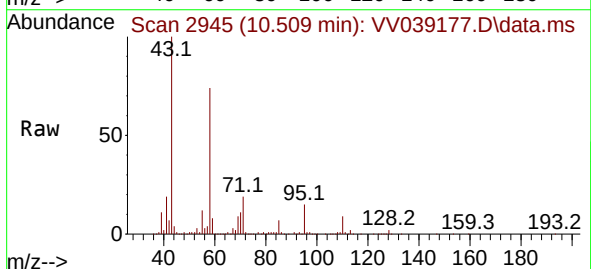
Instrument :
MSVOA_V
ClientSampleId :

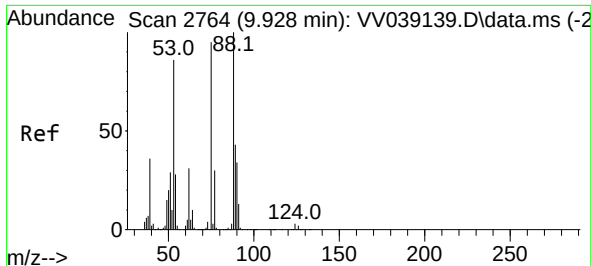
Tgt Ion: 75 Resp: 184894
Ion Ratio Lower Upper
75 100
77 1.2 11.3 33.8#



#79
2-Chlorotoluene
Concen: 0.304 ug/l
RT: 10.509 min Scan# 2945
Delta R.T. 0.164 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 91 Resp: 6520
Ion Ratio Lower Upper
91 100
126 43.7 16.7 50.0

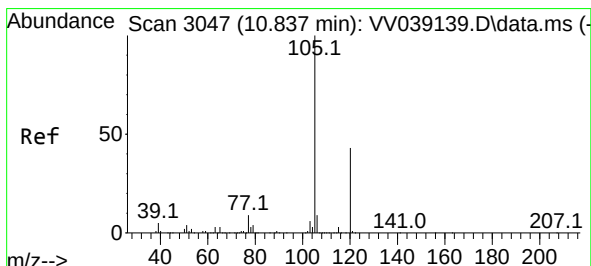
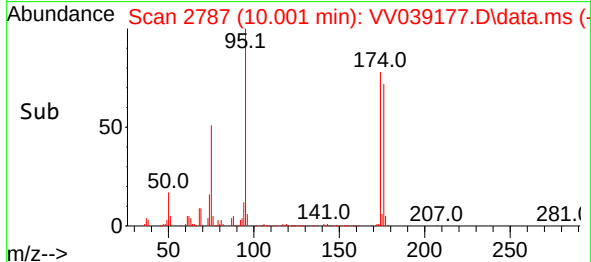
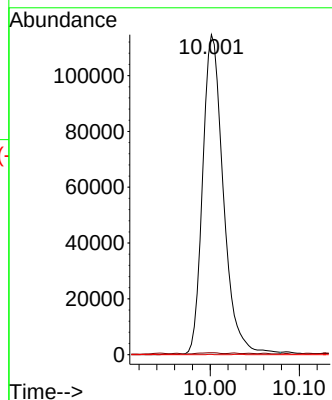
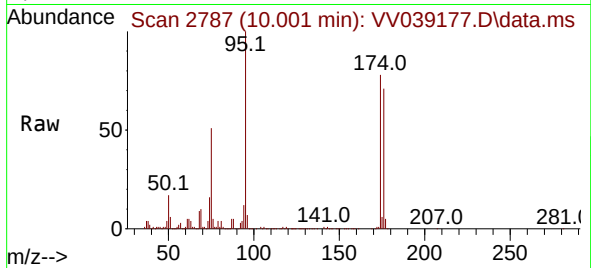




#81
trans-1,4-Dichloro-2-butene
Concen: 47.965 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

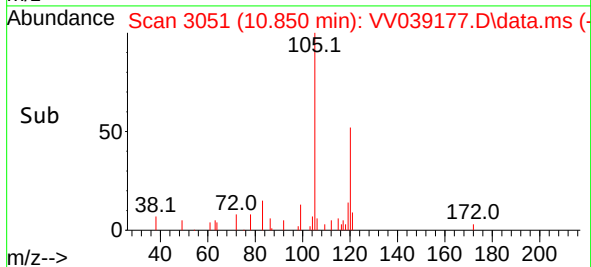
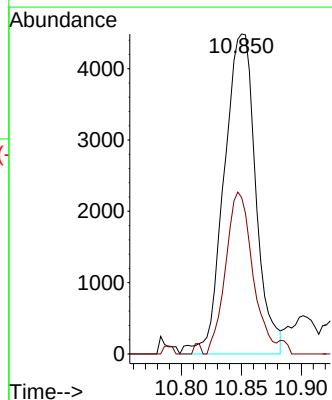
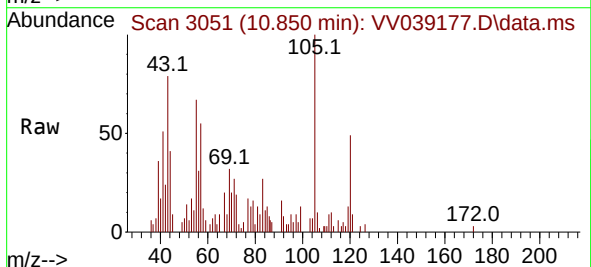
Instrument :
MSVOA_V
ClientSampleId :

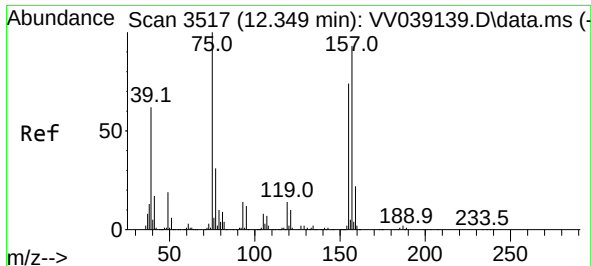
Tgt Ion: 75 Resp: 184894
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.347 ug/l
RT: 10.850 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 105 Resp: 8250
Ion Ratio Lower Upper
105 100
120 43.2 22.4 67.2

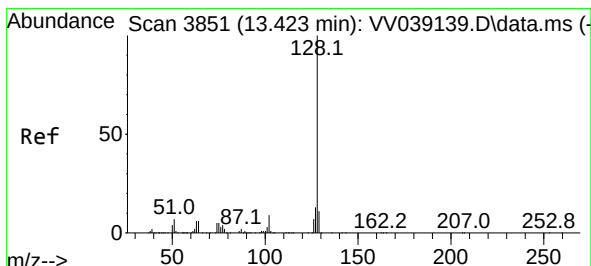
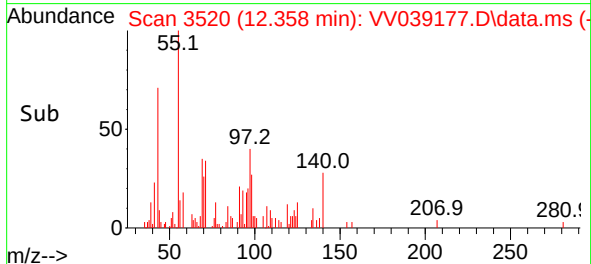
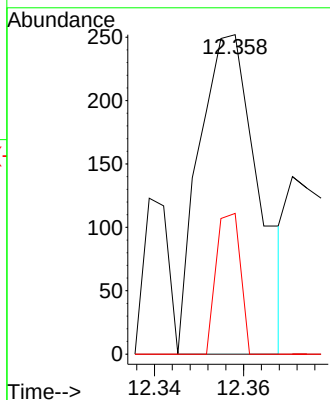
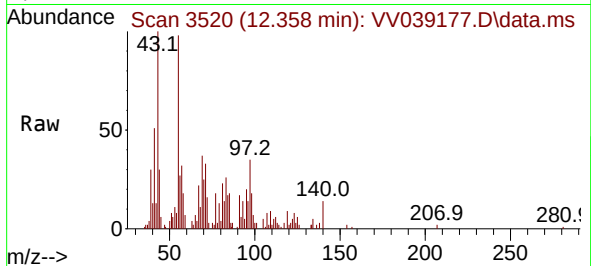




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.358 min Scan# 3520
Delta R.T. 0.009 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 233
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 18.0 49.5 148.3#



#95
Naphthalene
Concen: 0.595 ug/l
RT: 13.435 min Scan# 3855
Delta R.T. 0.012 min
Lab File: VV039177.D
Acq: 25 Sep 2025 13:40

Tgt Ion: 128 Resp: 15931
Ion Ratio Lower Upper
128 100
127 16.0 10.3 15.5#
129 14.9 8.6 13.0#

