

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039222.D
 Acq On : 29 Sep 2025 11:38
 Operator : SY/MD
 Sample : VV0929MBL01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 30 01:22:17 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	4.597	168	503598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	855660	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	847306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	430776	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.941	65	373920	51.302	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 102.600%	
35) Dibromofluoromethane	4.500	113	358071	52.054	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 104.100%	
50) Toluene-d8	7.236	98	896223	44.361	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 88.720%#	
62) 4-Bromofluorobenzene	10.001	95	370293	44.522	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 89.040%	

Target Compounds

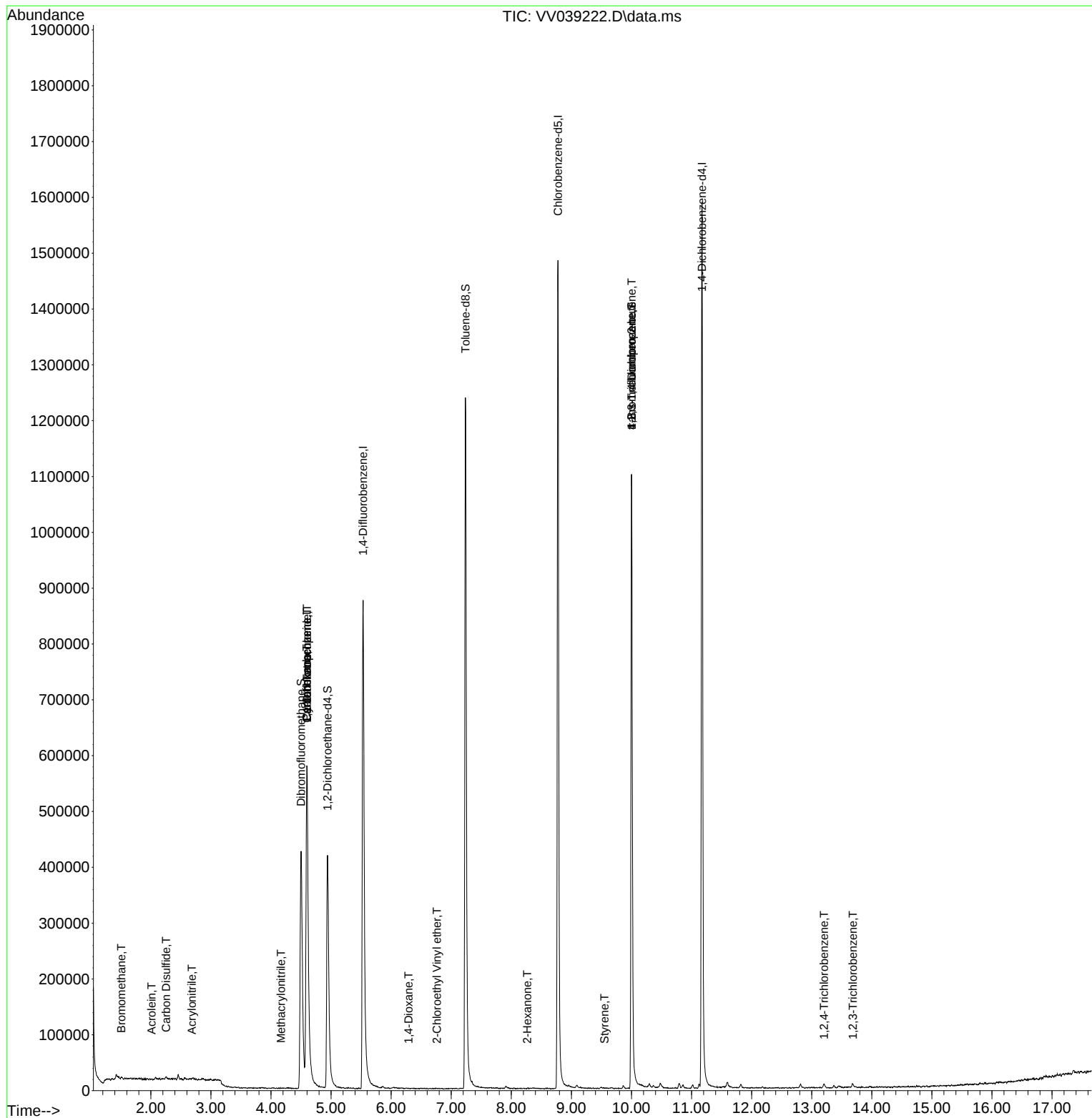
					Qvalue	
5) Bromomethane	1.507	94	1790	0.310	ug/l #	76
6) Chloroethane	1.555	64	286	Below Cal	#	45
13) Acrolein	2.011	56	207	0.774	ug/l #	54
15) Acrylonitrile	2.683	53	1313	0.266	ug/l #	86
16) Acetone	2.137	43	2461	Below Cal	#	85
17) Carbon Disulfide	2.253	76	6080	0.262	ug/l #	92
20) Methylene Chloride	2.455	84	3172	Below Cal	#	81
31) Cyclohexane	4.597	56	10516	0.809	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	40047	3.851	ug/l #	45
38) Carbon Tetrachloride	4.600	117	51795	4.075	ug/l #	17
41) Methacrylonitrile	4.166	41	174	1.940	ug/l #	34
49) 1,4-Dioxane	6.291	88	42	0.334	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.760	63	46	9.630	ug/l #	47
59) 2-Hexanone	8.265	43	222	2.350	ug/l	69
70) Styrene	9.551	104	671	1.586	ug/l #	36
76) 1,2,3-Trichloropropane	10.001	75	180472	18.400	ug/l #	55
81) trans-1,4-Dichloro-2-b...	10.001	75	180472	44.174	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.352	75	42	Below Cal	#	5
93) 1,2,4-Trichlorobenzene	13.204	180	2221	0.253	ug/l	98
96) 1,2,3-Trichlorobenzene	13.683	180	2401	0.267	ug/l	89

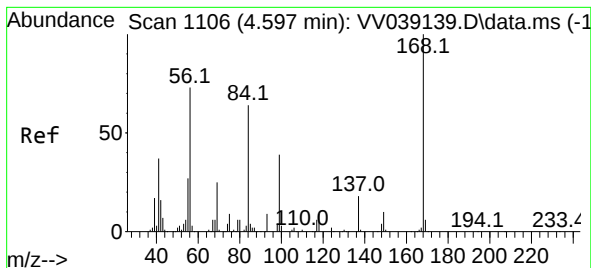
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 30 01:22:17 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

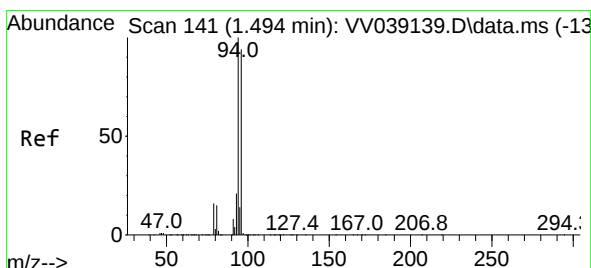
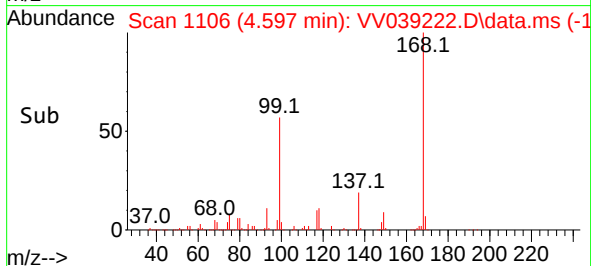
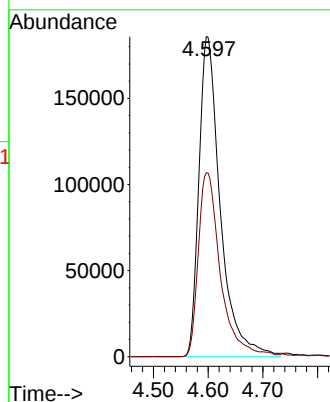
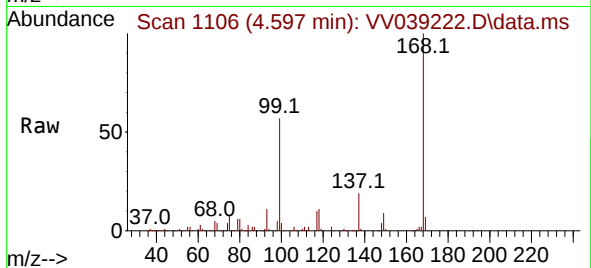




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

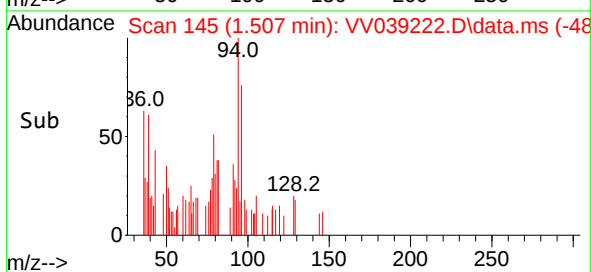
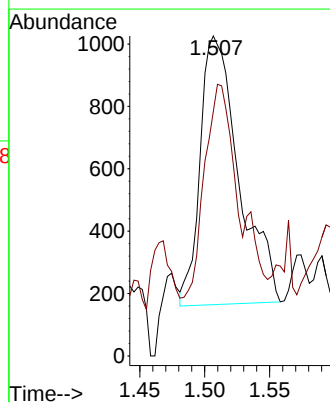
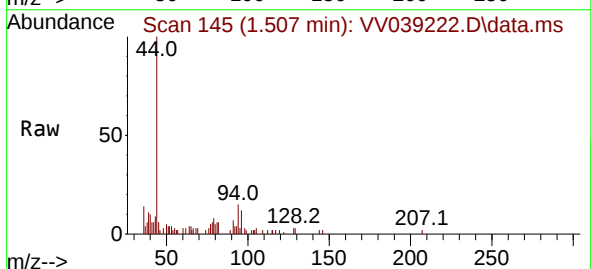
Instrument :
MSVOA_V
ClientSampleId :

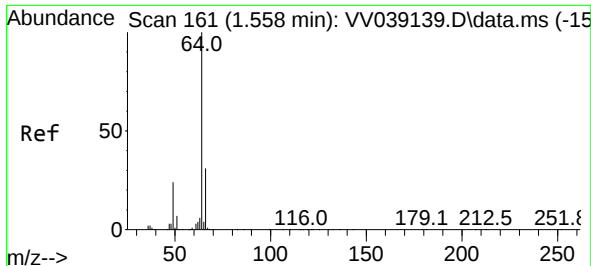
Tgt Ion:168 Resp: 503598
Ion Ratio Lower Upper
168 100
99 57.4 49.6 74.4



#5
Bromomethane
Concen: 0.310 ug/l
RT: 1.507 min Scan# 145
Delta R.T. 0.013 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion: 94 Resp: 1790
Ion Ratio Lower Upper
94 100
96 70.2 74.9 112.3#

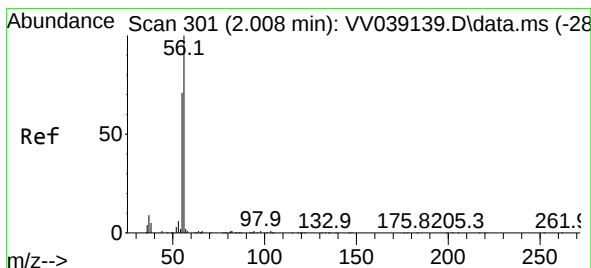
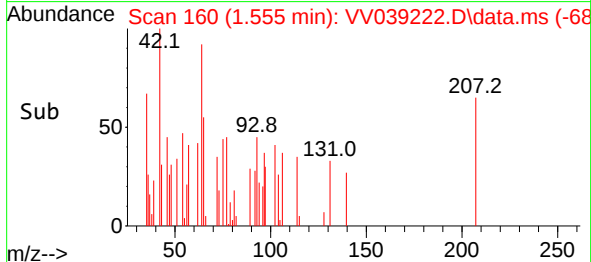
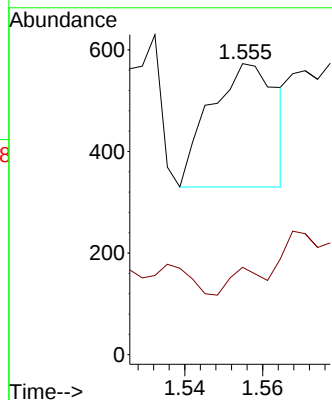
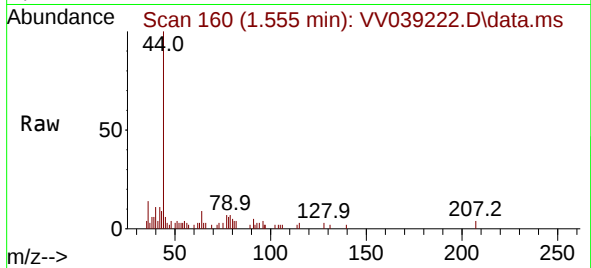




#6
Chloroethane
Concen: Below Cal
RT: 1.555 min Scan# 1
Delta R.T. -0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

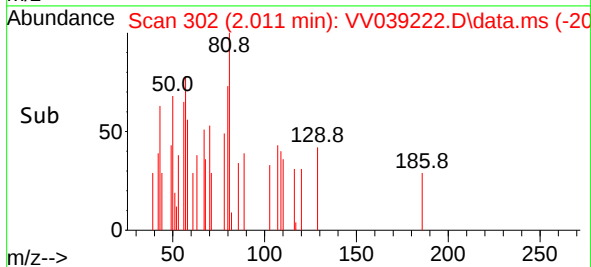
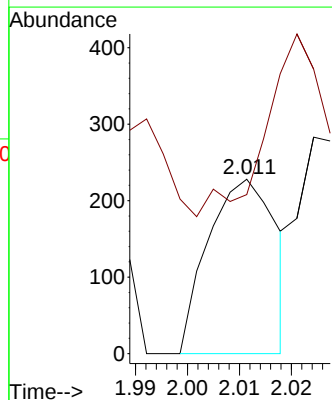
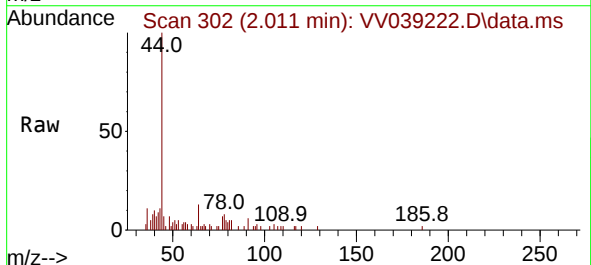
Instrument :
MSVOA_V
ClientSampleId :

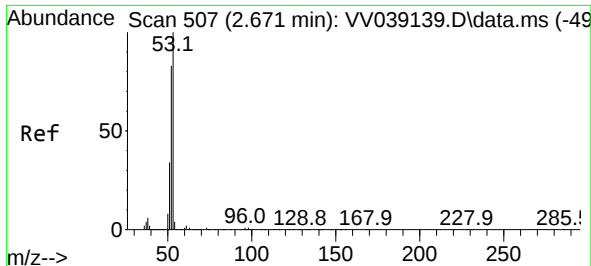
Tgt Ion: 64 Resp: 286
Ion Ratio Lower Upper
64 100
66 0.8 24.6 36.8#



#13
Acrolein
Concen: 0.774 ug/l
RT: 2.011 min Scan# 302
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion: 56 Resp: 207
Ion Ratio Lower Upper
56 100
55 32.4 56.2 84.4#

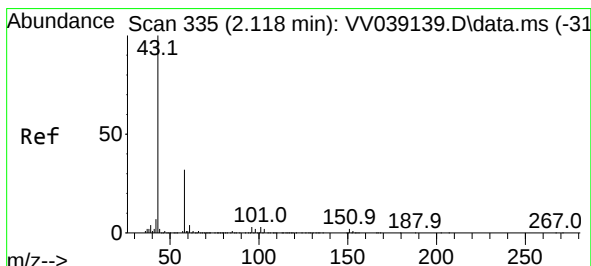
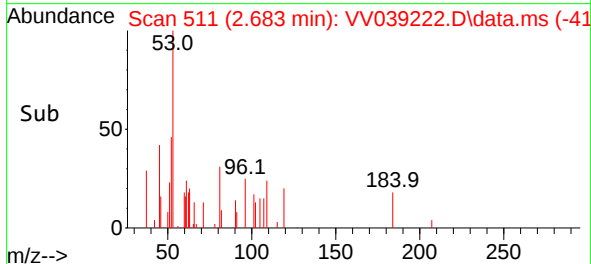
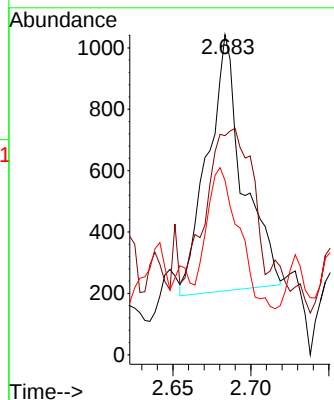
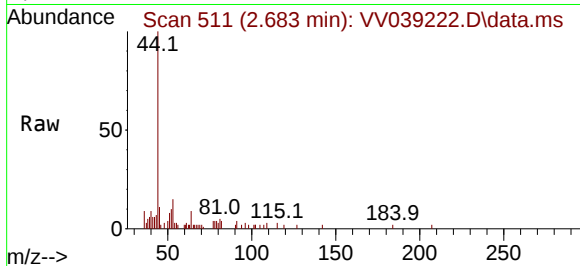




#15
Acrylonitrile
Concen: 0.266 ug/l
RT: 2.683 min Scan# 511
Delta R.T. 0.013 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

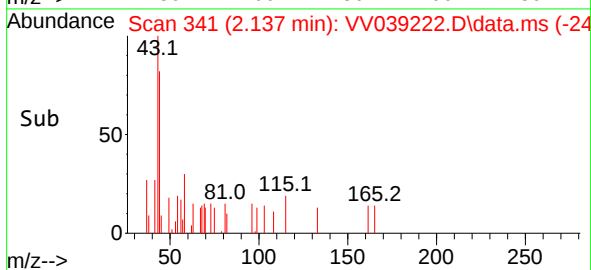
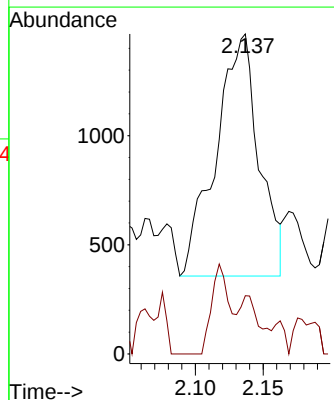
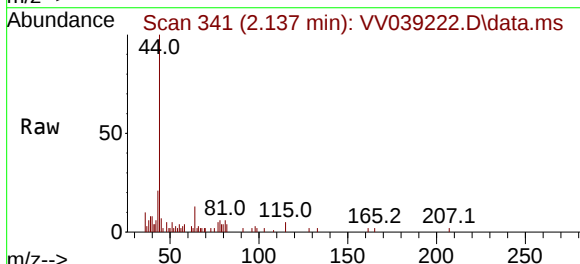
Instrument :
MSVOA_V
ClientSampleId :

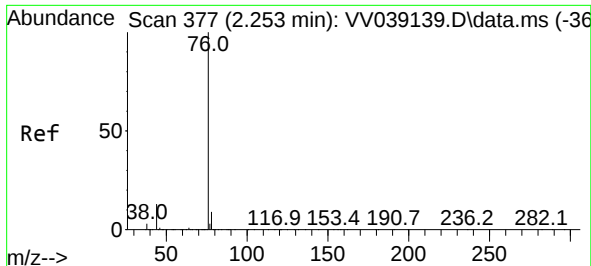
Tgt Ion: 53 Resp: 1313
Ion Ratio Lower Upper
53 100
52 75.0 66.1 99.1
51 50.6 28.5 42.7#



#16
Acetone
Concen: Below Cal
RT: 2.137 min Scan# 341
Delta R.T. 0.019 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion: 43 Resp: 2461
Ion Ratio Lower Upper
43 100
58 24.1 25.8 38.6#

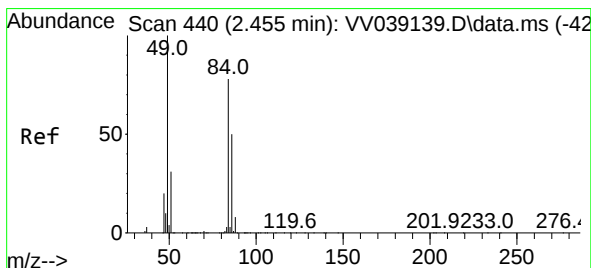
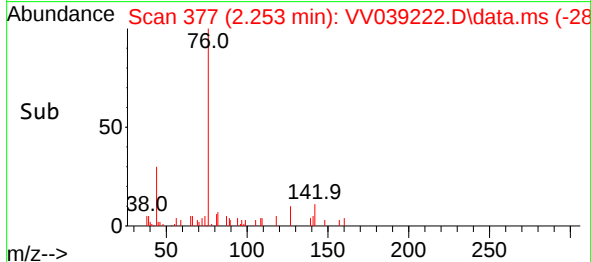
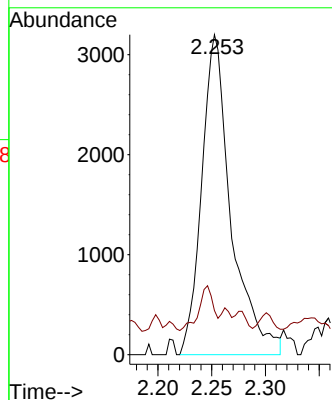
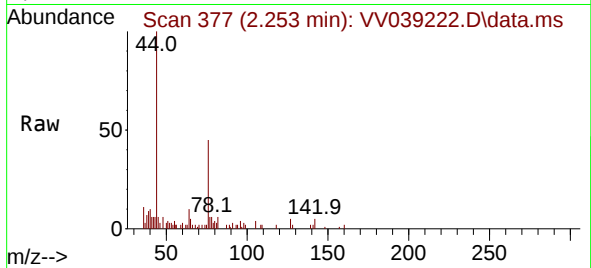




#17
Carbon Disulfide
Concen: 0.262 ug/l
RT: 2.253 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

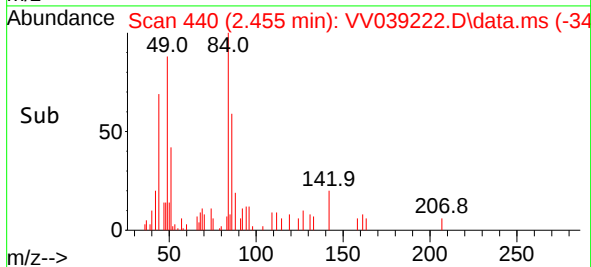
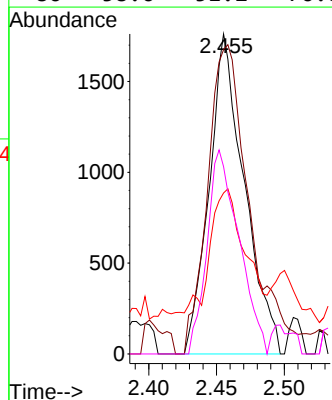
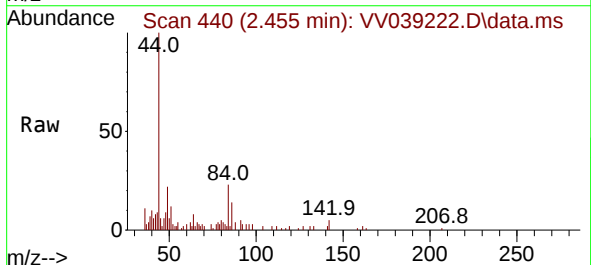
Instrument :
MSVOA_V
ClientSampleId :

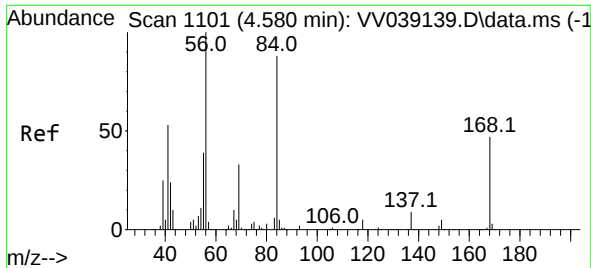
Tgt Ion: 76 Resp: 6080
Ion Ratio Lower Upper
76 100
78 6.2 7.4 11.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

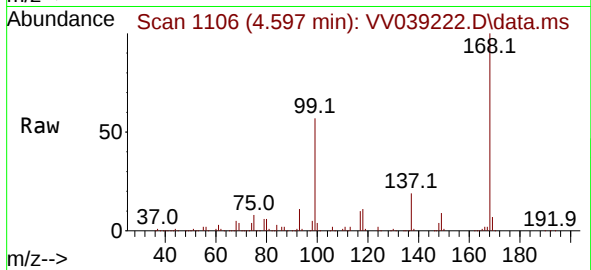
Tgt Ion: 84 Resp: 3172
Ion Ratio Lower Upper
84 100
49 95.1 102.8 154.2#
51 37.3 31.9 47.9
86 58.6 51.2 76.8



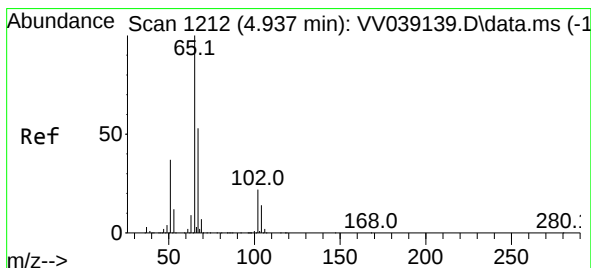
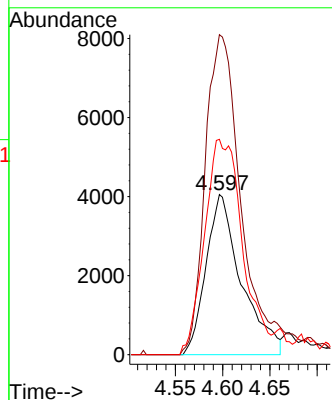
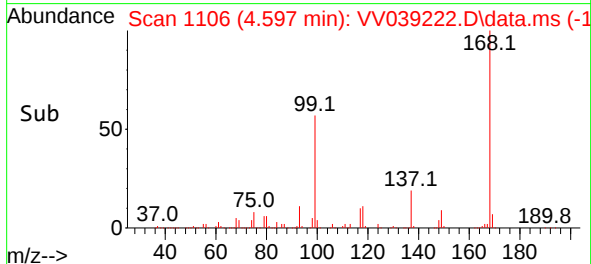


#31
Cyclohexane
Concen: 0.809 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Instrument :
MSVOA_V
ClientSampleId :

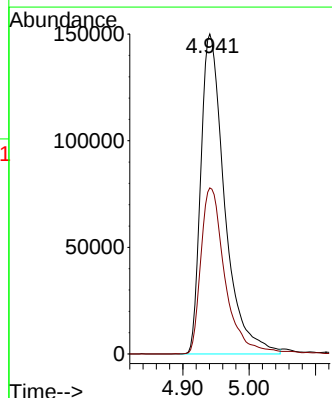
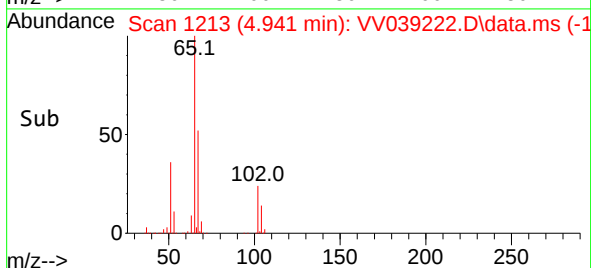
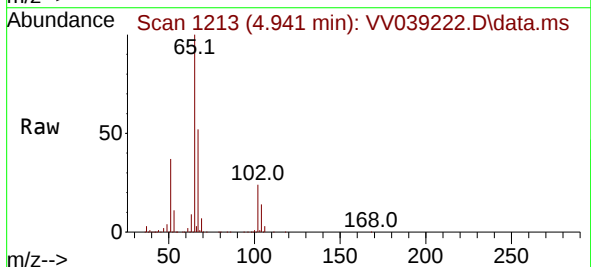


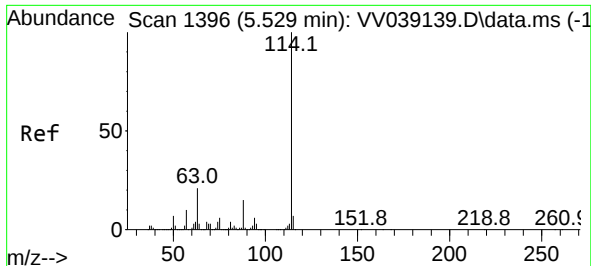
Tgt Ion: 56 Resp: 10516
Ion Ratio Lower Upper
56 100
69 199.8 26.2 39.2#
84 134.5 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 51.302 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

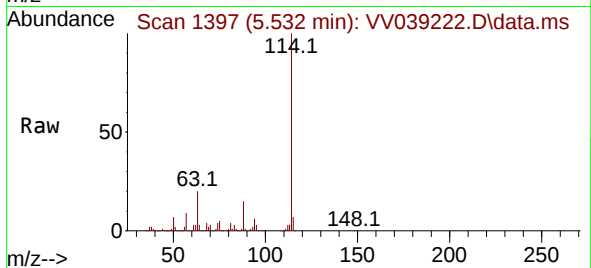
Tgt Ion: 65 Resp: 373920
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.0



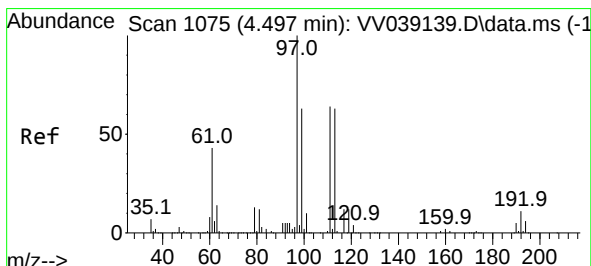
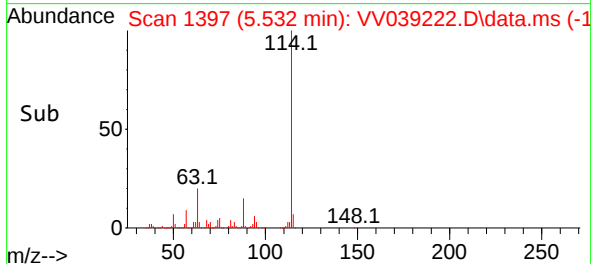
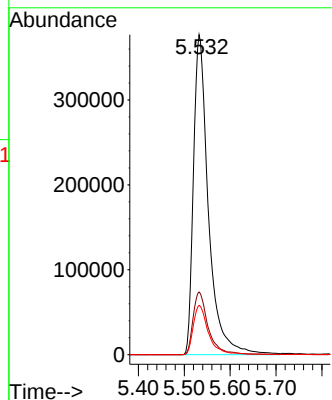


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Instrument :
MSVOA_V
ClientSampleId :

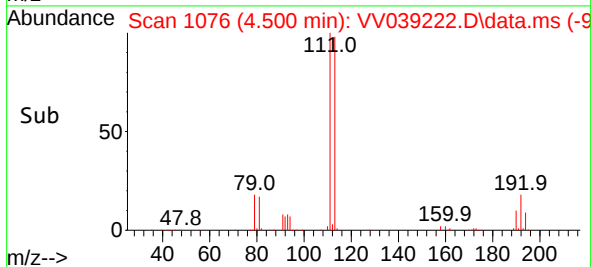
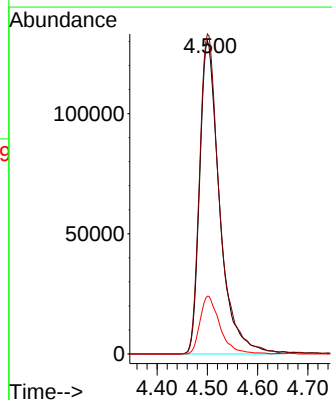
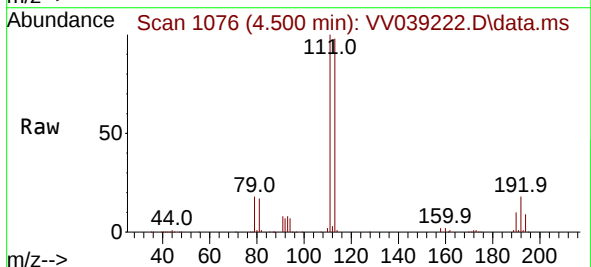


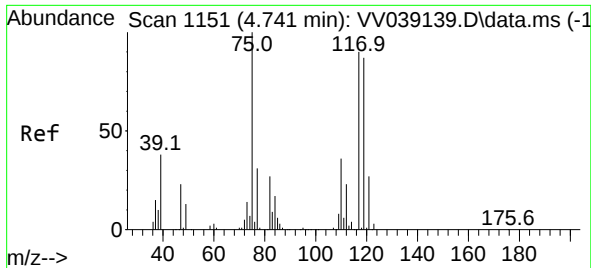
Tgt Ion:114 Resp: 855660
Ion Ratio Lower Upper
114 100
63 19.6 0.0 42.6
88 15.4 0.0 30.8



#35
Dibromofluoromethane
Concen: 52.054 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion:113 Resp: 358071
Ion Ratio Lower Upper
113 100
111 103.2 82.4 123.6
192 18.4 13.8 20.8

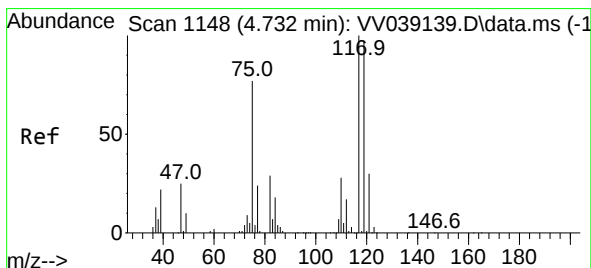
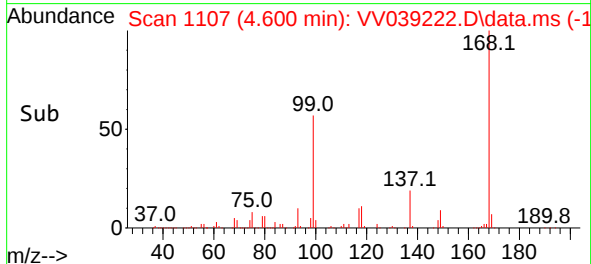
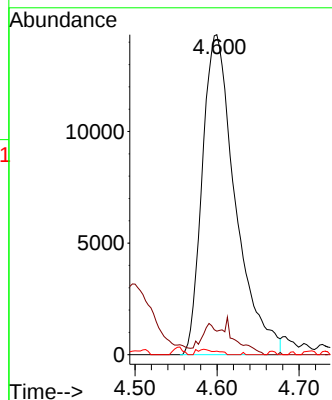
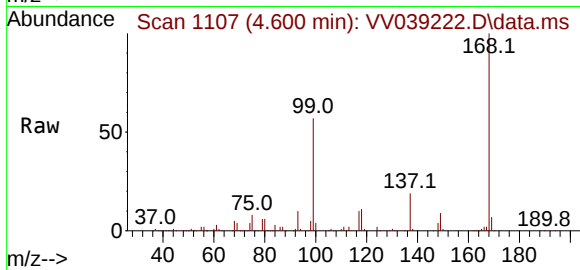




#36
 1,1-Dichloropropene
 Concen: 3.851 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039222.D
 Acq: 29 Sep 2025 11:38

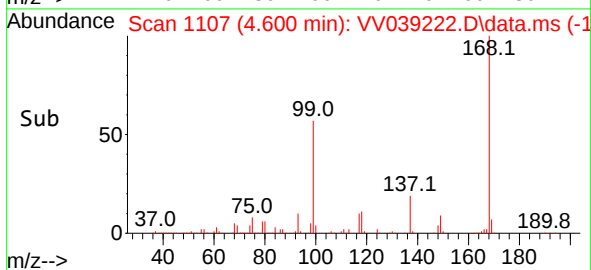
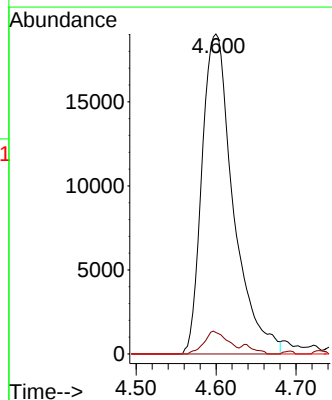
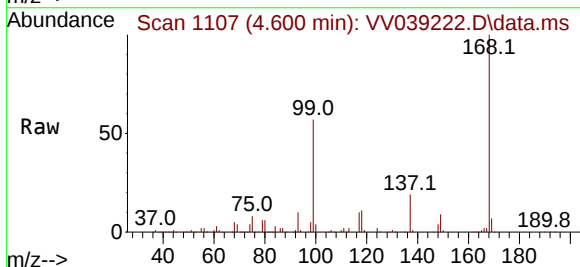
Instrument :
 MSVOA_V
 ClientSampleId :

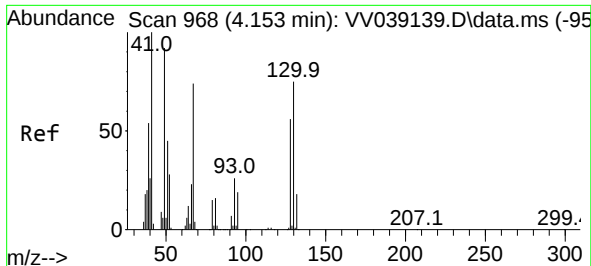
Tgt Ion: 75 Resp: 40047
 Ion Ratio Lower Upper
 75 100
 110 3.0 18.1 54.1#
 77 1.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 4.075 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.132 min
 Lab File: VV039222.D
 Acq: 29 Sep 2025 11:38

Tgt Ion: 117 Resp: 51795
 Ion Ratio Lower Upper
 117 100
 119 6.7 77.2 115.8#
 121 0.0 24.2 36.2#

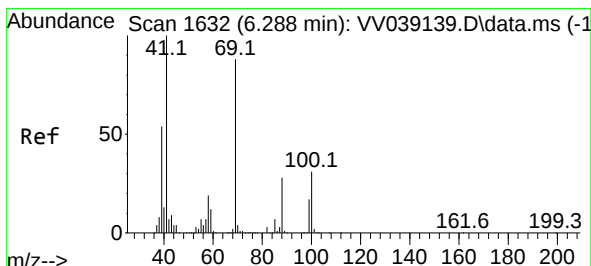
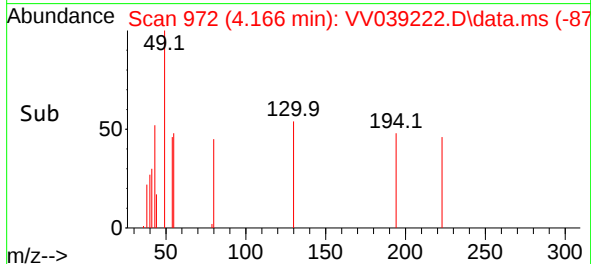
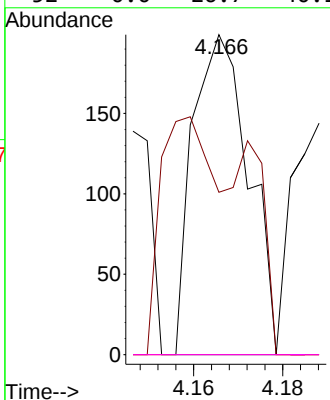
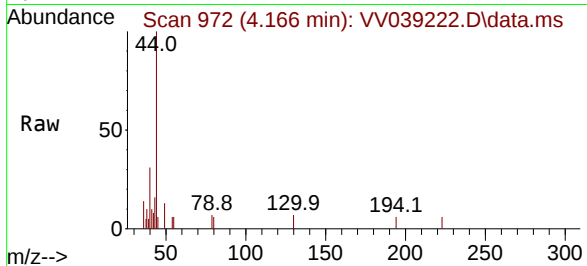




#41
Methacrylonitrile
Concen: 1.940 ug/l
RT: 4.166 min Scan# 91
Delta R.T. 0.013 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

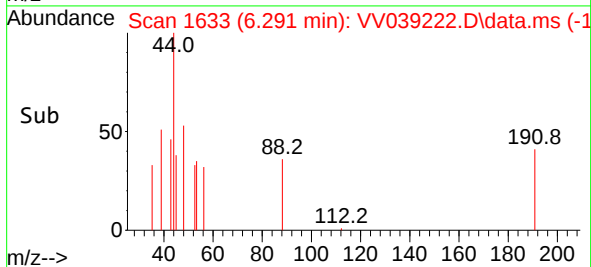
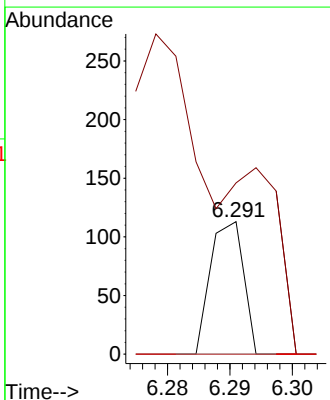
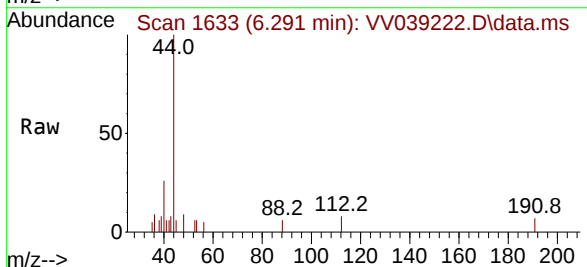
Instrument :
MSVOA_V
ClientSampleId :

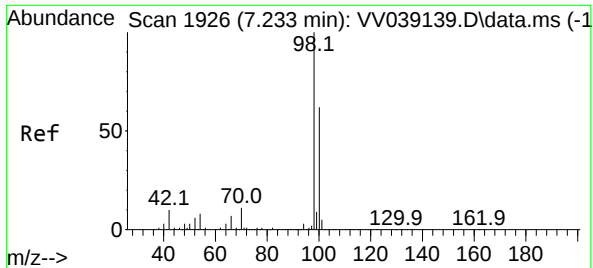
Tgt Ion:	41	Resp:	174
Ion	Ratio	Lower	Upper
41	100		
39	71.3	42.2	63.2#
67	0.0	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.334 ug/l
RT: 6.291 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion:	88	Resp:	42
Ion	Ratio	Lower	Upper
88	100		
43	290.5	25.1	37.7#
58	0.0	53.6	80.4#

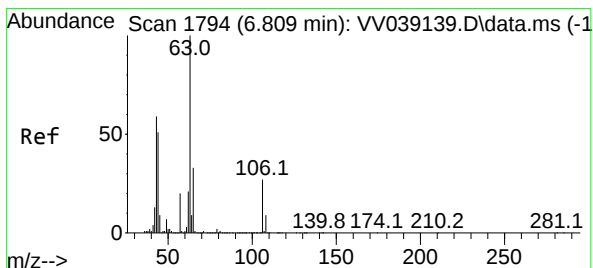
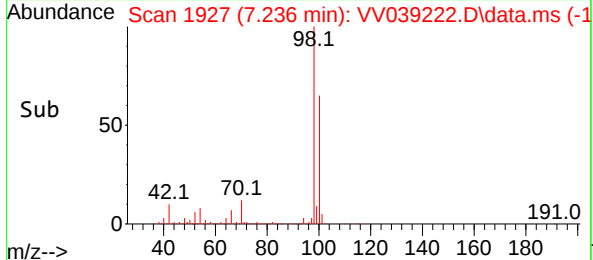
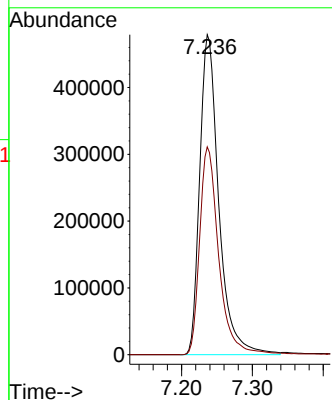
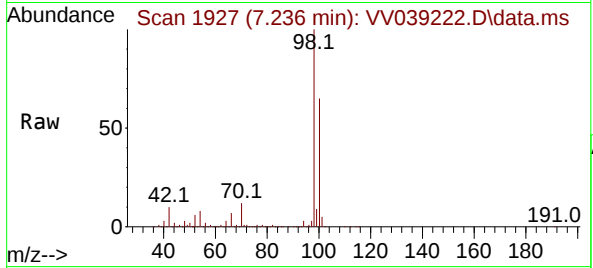




#50
Toluene-d8
Concen: 44.361 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

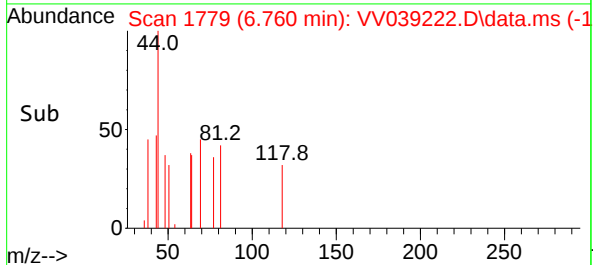
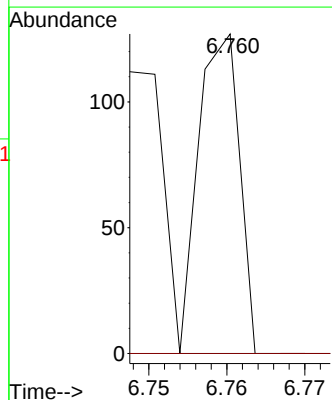
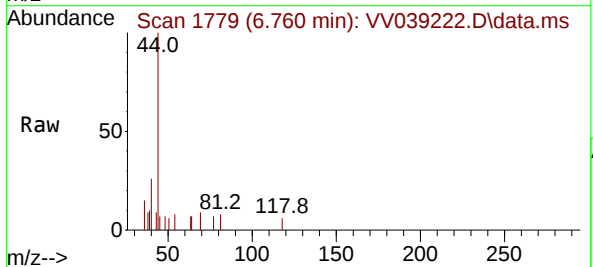
Instrument :
MSVOA_V
ClientSampleId :

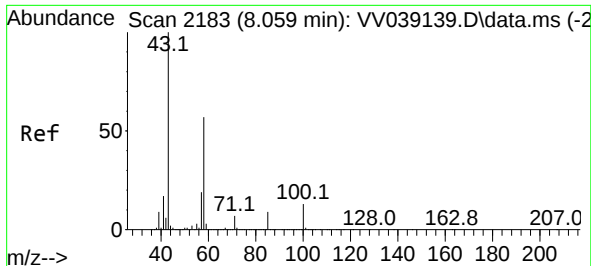
Tgt Ion: 98 Resp: 896223
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.630 ug/l
RT: 6.760 min Scan# 1779
Delta R.T. -0.049 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion: 63 Resp: 46
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#

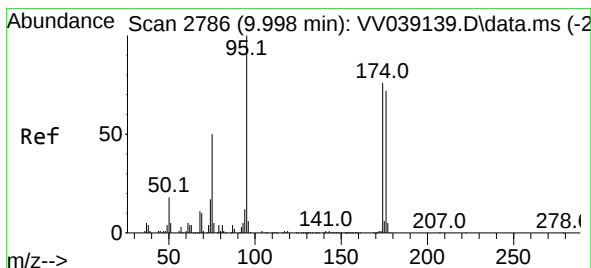
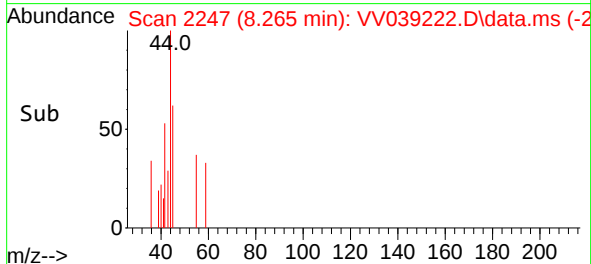
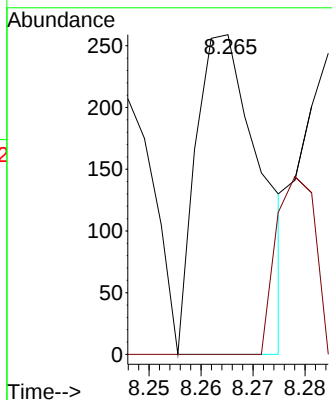
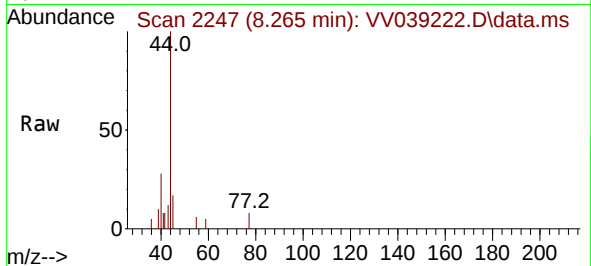




#59
2-Hexanone
Concen: 2.350 ug/l
RT: 8.265 min Scan# 2183
Delta R.T. 0.206 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

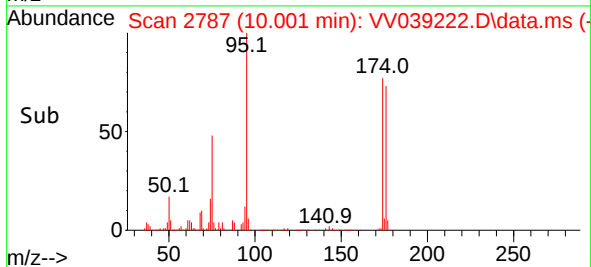
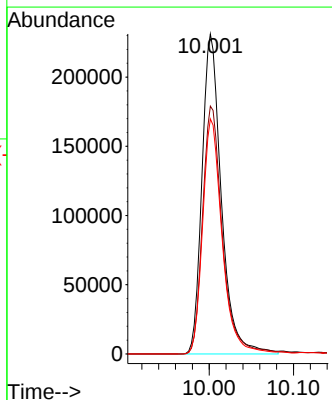
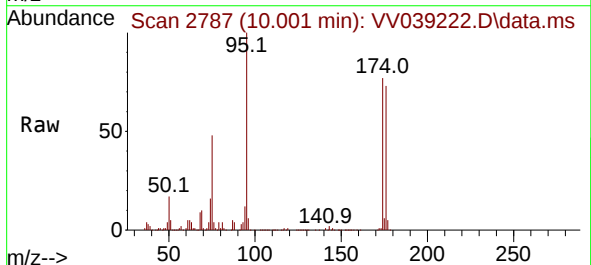
Instrument :
MSVOA_V
ClientSampleId :

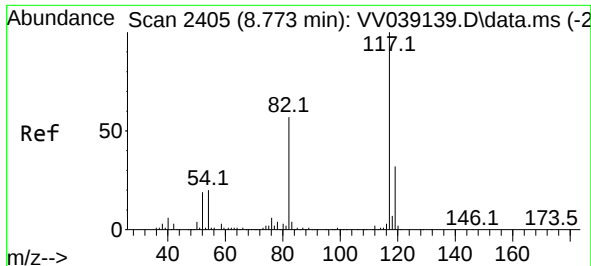
Tgt Ion: 43 Resp: 222
Ion Ratio Lower Upper
43 100
58 33.8 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 44.522 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

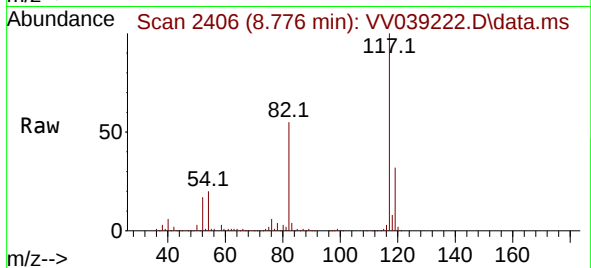
Tgt Ion: 95 Resp: 370293
Ion Ratio Lower Upper
95 100
174 79.7 0.0 150.4
176 74.1 0.0 144.2



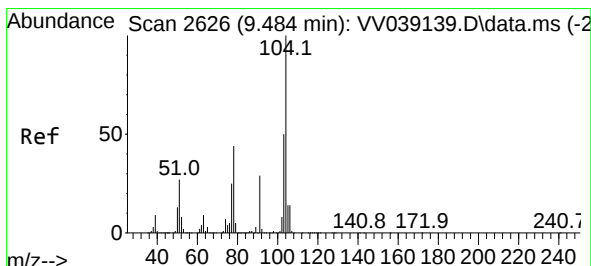
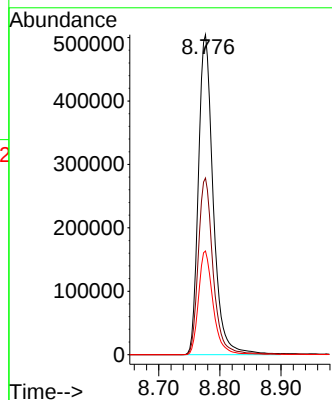
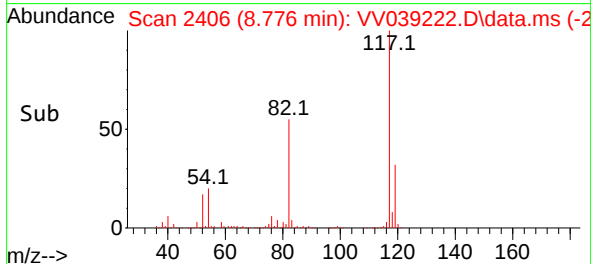


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Instrument :
MSVOA_V
ClientSampleId :

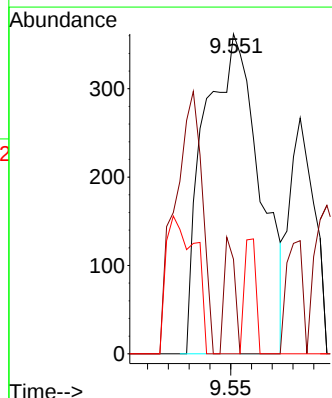
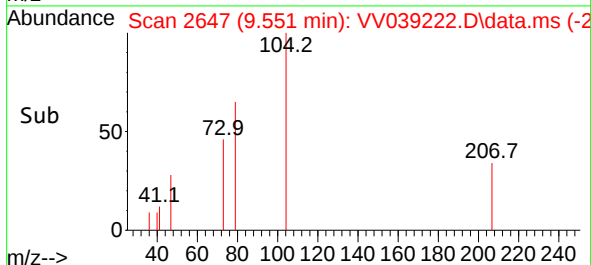
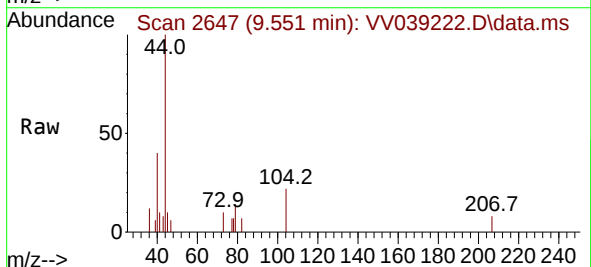


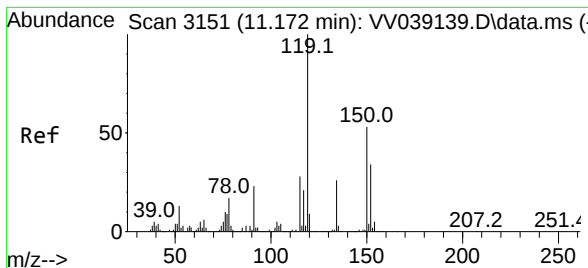
Tgt Ion:117 Resp: 847306
Ion Ratio Lower Upper
117 100
82 55.2 45.4 68.2
119 32.4 25.6 38.4



#70
Styrene
Concen: 1.586 ug/l
RT: 9.551 min Scan# 2647
Delta R.T. 0.067 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion:104 Resp: 671
Ion Ratio Lower Upper
104 100
78 6.9 39.8 59.6#
103 7.5 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: VV039222.D

Acq: 29 Sep 2025 11:38

Instrument :

MSVOA_V

ClientSampleId :

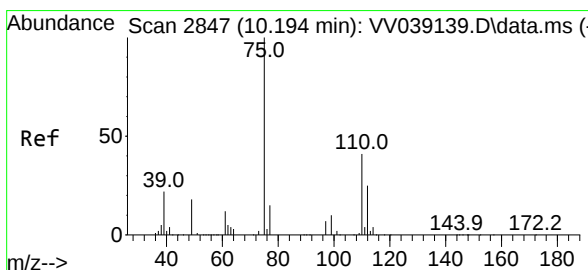
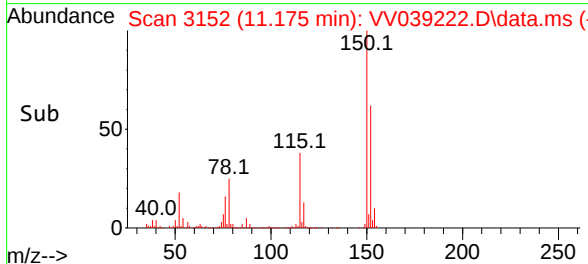
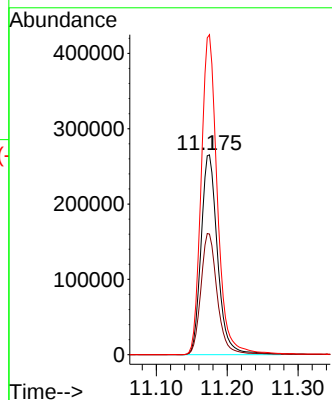
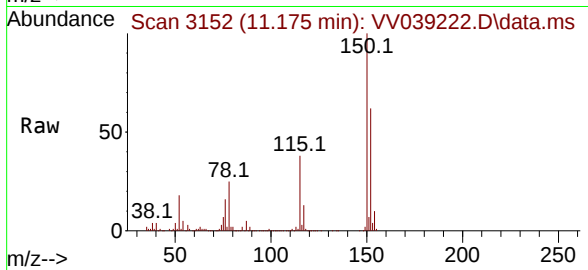
Tgt Ion:152 Resp: 430776

Ion Ratio Lower Upper

152 100

115 60.4 44.8 134.4

150 157.4 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.400 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039222.D

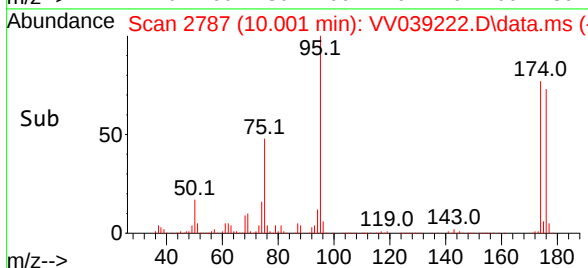
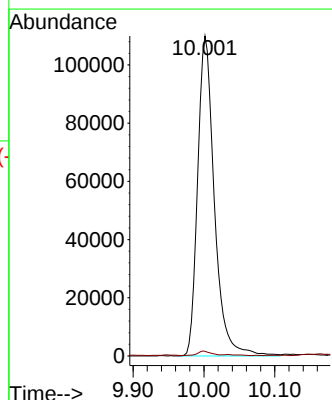
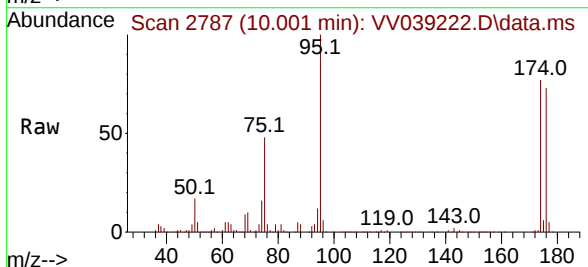
Acq: 29 Sep 2025 11:38

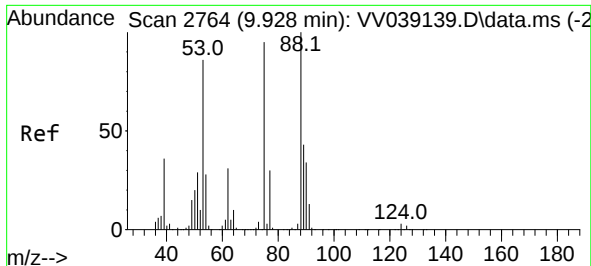
Tgt Ion: 75 Resp: 180472

Ion Ratio Lower Upper

75 100

77 1.1 11.3 33.8#

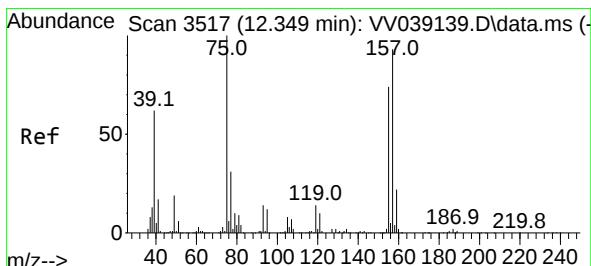
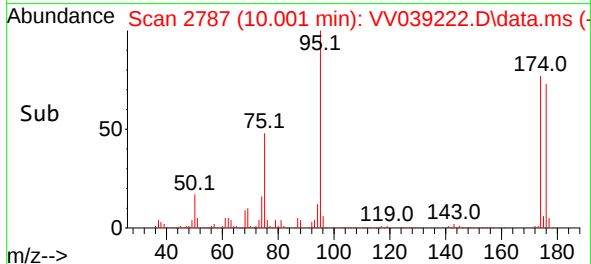
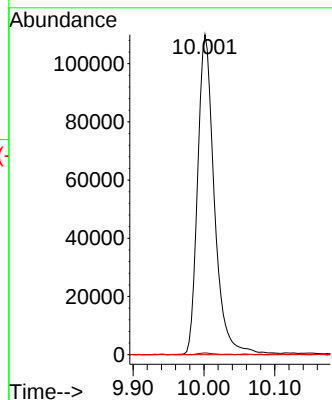
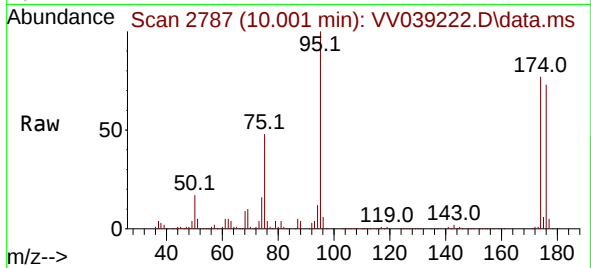




#81
trans-1,4-Dichloro-2-butene
Concen: 44.174 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

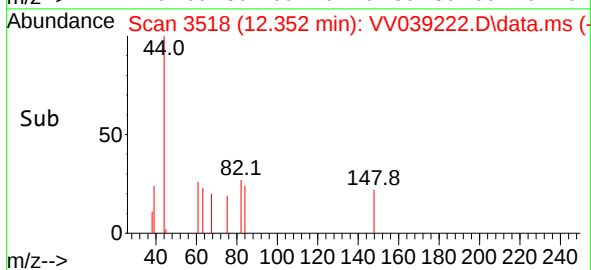
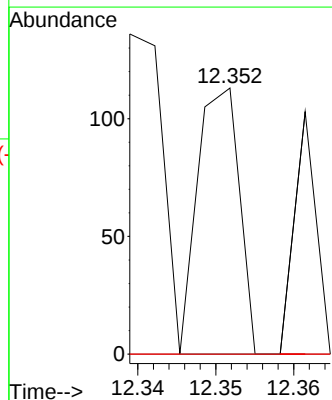
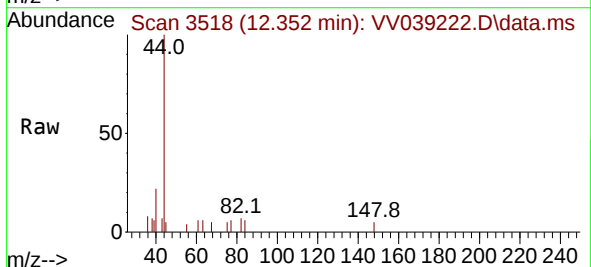
Instrument :
MSVOA_V
ClientSampleId :

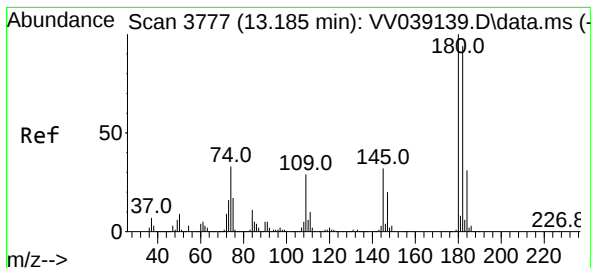
Tgt Ion: 75 Resp: 180472
Ion Ratio Lower Upper
75 100
53 0.5 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039222.D
Acq: 29 Sep 2025 11:38

Tgt Ion: 75 Resp: 42
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#





#93

1,2,4-Trichlorobenzene

Concen: 0.253 ug/l

RT: 13.204 min Scan# 31

Delta R.T. 0.019 min

Lab File: VV039222.D

Acq: 29 Sep 2025 11:38

Instrument :

MSVOA_V

ClientSampleId :

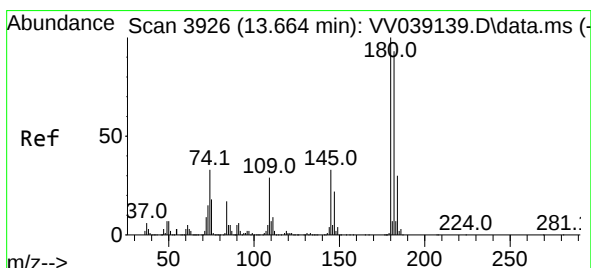
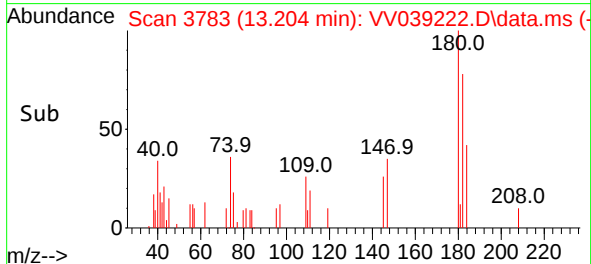
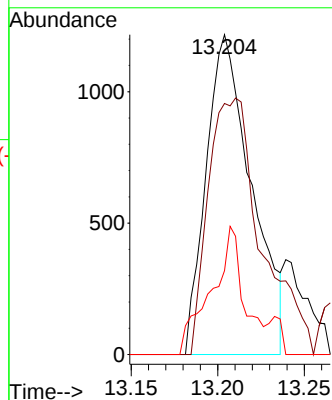
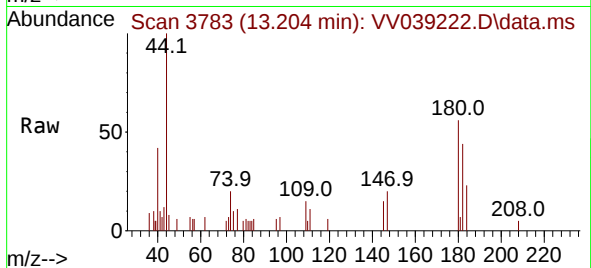
Tgt Ion:180 Resp: 2221

Ion Ratio Lower Upper

180 100

182 93.4 47.1 141.4

145 29.0 16.3 48.8



#96

1,2,3-Trichlorobenzene

Concen: 0.267 ug/l

RT: 13.683 min Scan# 3932

Delta R.T. 0.019 min

Lab File: VV039222.D

Acq: 29 Sep 2025 11:38

Tgt Ion:180 Resp: 2401

Ion Ratio Lower Upper

180 100

182 105.2 46.9 140.8

145 40.3 17.0 51.0

