

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039180.D
 Acq On : 25 Sep 2025 14:48
 Operator : SY/MD
 Sample : Q3172-02DL 4X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:29:27 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)

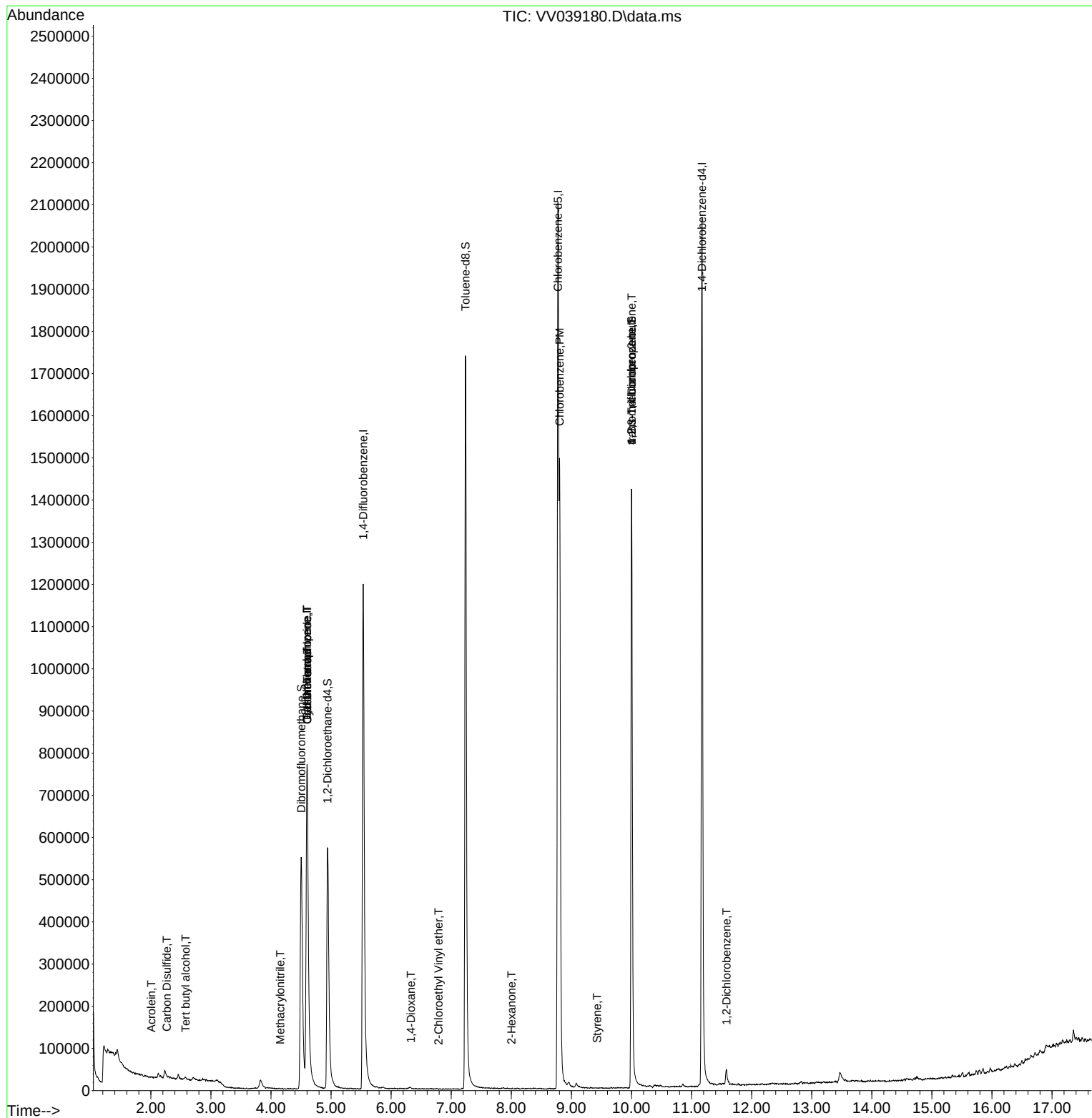
Internal Standards						
1) Pentafluorobenzene	4.600	168	642311	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	1161576	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1114736	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	523929	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	525802	56.561	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	113.120%
35) Dibromofluoromethane	4.503	113	458522	49.102	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	98.200%
50) Toluene-d8	7.236	98	1241276	45.259	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	90.520%
62) 4-Bromofluorobenzene	10.001	95	505982	44.814	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	89.620%
Target Compounds						
					Qvalue	
6) Chloroethane	1.783	64	2288	Below Cal	#	58
11) Tert butyl alcohol	2.577	59	2570	1.308	ug/l	95
13) Acrolein	2.008	56	215	0.631	ug/l #	25
16) Acetone	2.124	43	14208	Below Cal		97
17) Carbon Disulfide	2.269	76	7507	0.253	ug/l #	87
20) Methylene Chloride	2.458	84	4099	Below Cal		90
31) Cyclohexane	4.603	56	14098	0.850	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	55669	3.943	ug/l #	49
38) Carbon Tetrachloride	4.603	117	71700	4.155	ug/l #	16
41) Methacrylonitrile	4.156	41	330	1.951	ug/l #	48
49) 1,4-Dioxane	6.330	88	39	0.228	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.789	63	21	9.625	ug/l #	1
59) 2-Hexanone	8.005	43	82	2.332	ug/l	68
65) Chlorobenzene	8.805	112	791007	25.475	ug/l	98
70) Styrene	9.429	104	19	1.562	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	249597	20.923	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	249597	50.231	ug/l #	13
91) 1,2-Dichlorobenzene	11.580	146	15912	0.854	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	12.349	75	298	Below Cal	#	9

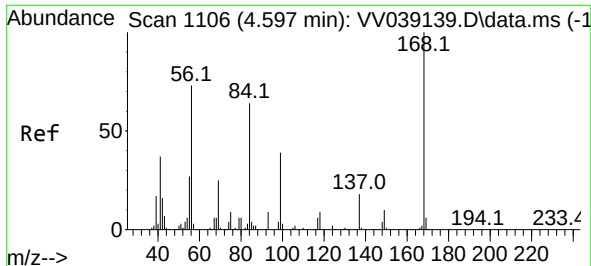
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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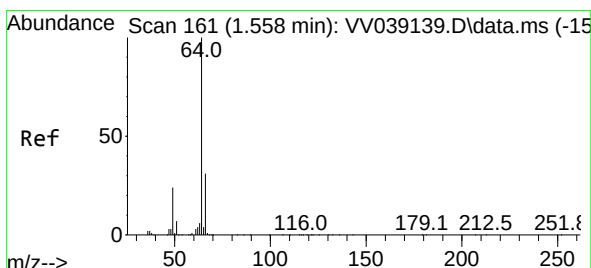
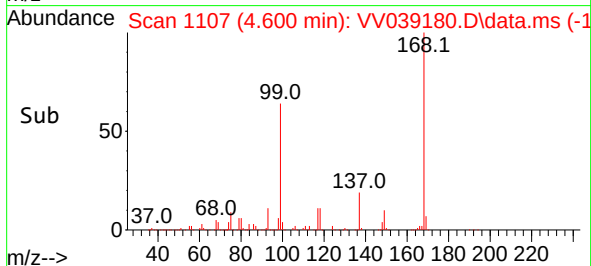
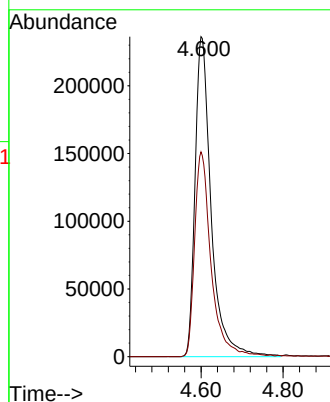
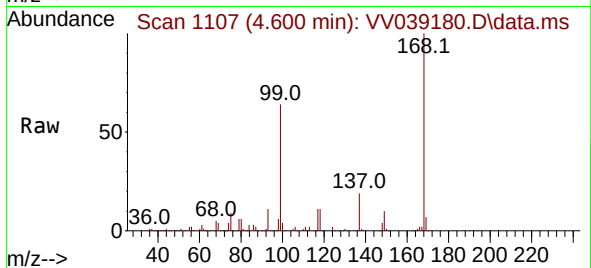




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

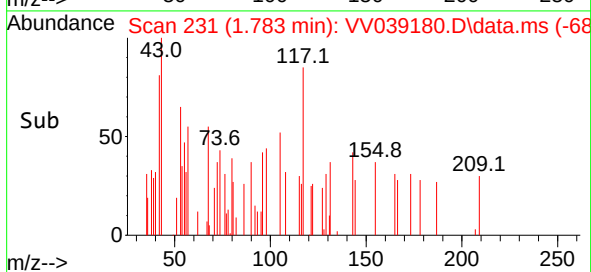
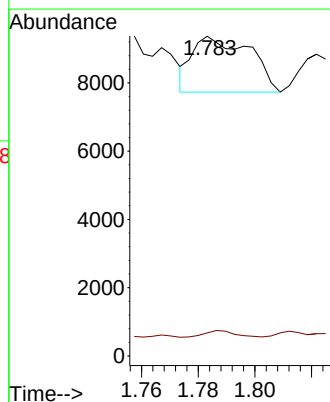
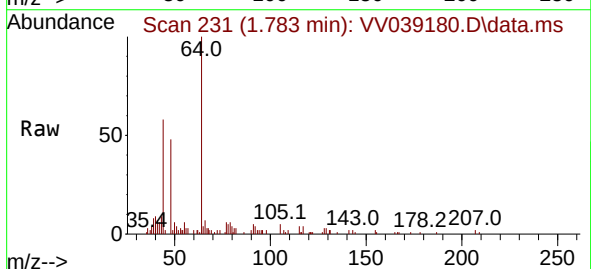
Instrument :
MSVOA_V
ClientSampleId :

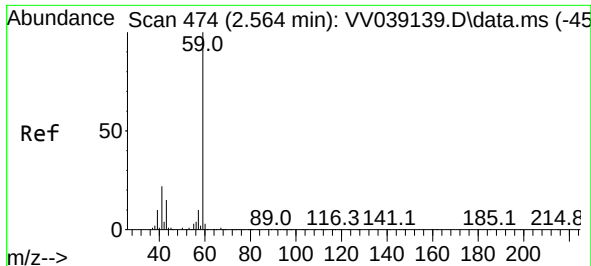
Tgt Ion:168 Resp: 642311
Ion Ratio Lower Upper
168 100
99 64.0 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.783 min Scan# 231
Delta R.T. 0.225 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion: 64 Resp: 2288
Ion Ratio Lower Upper
64 100
66 7.8 24.6 36.8#

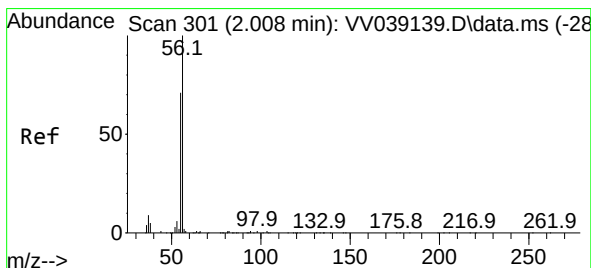
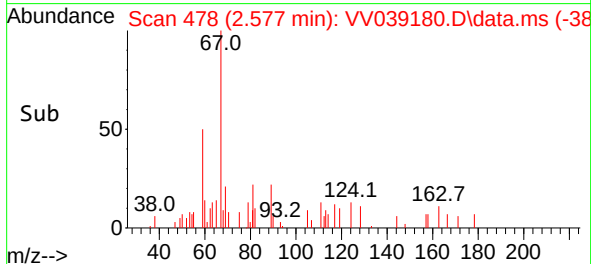
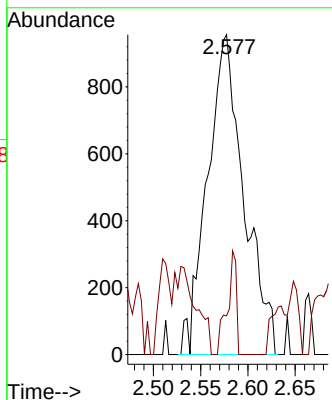
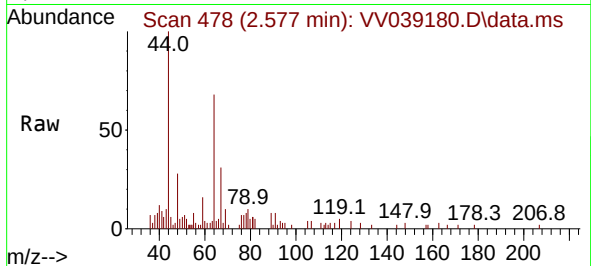




#11
Tert butyl alcohol
Concen: 1.308 ug/l
RT: 2.577 min Scan# 41
Delta R.T. 0.013 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

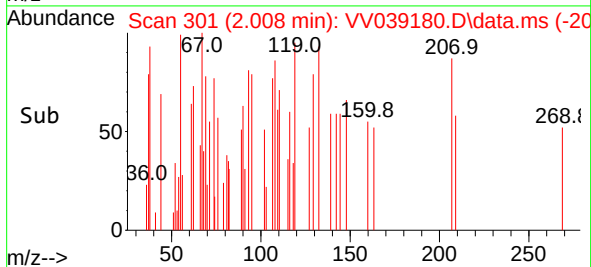
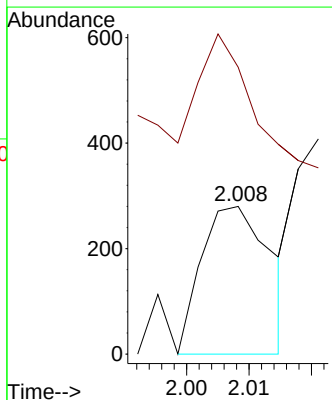
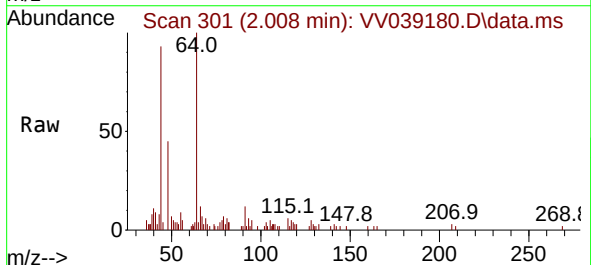
Instrument :
MSVOA_V
ClientSampleId :

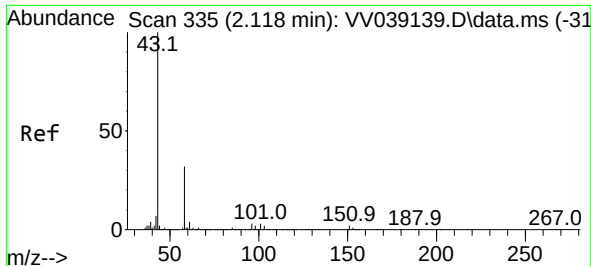
Tgt Ion: 59 Resp: 2570
Ion Ratio Lower Upper
59 100
57 8.0 7.8 11.8



#13
Acrolein
Concen: 0.631 ug/l
RT: 2.008 min Scan# 301
Delta R.T. 0.000 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion: 56 Resp: 215
Ion Ratio Lower Upper
56 100
55 131.6 56.2 84.4#

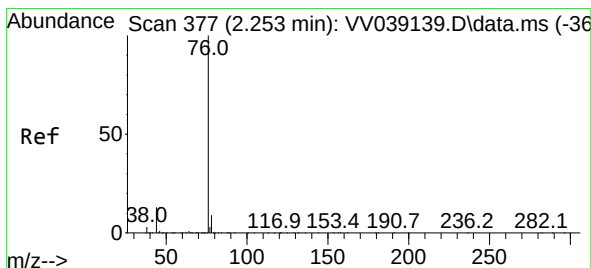
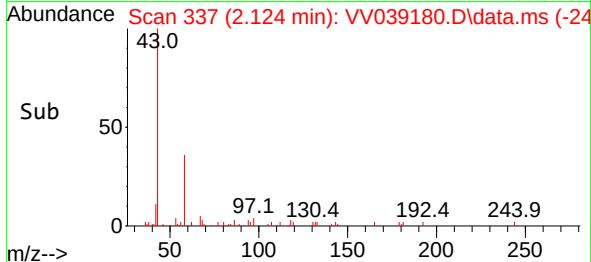
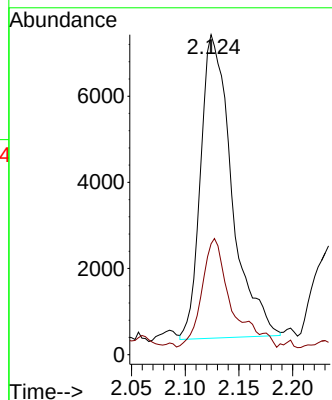
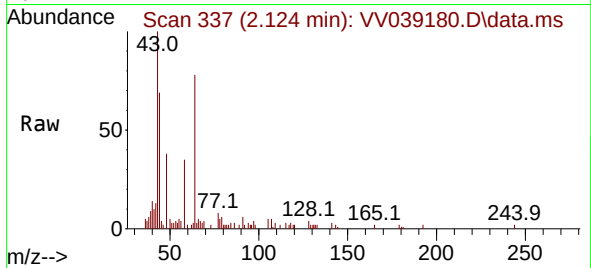




#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

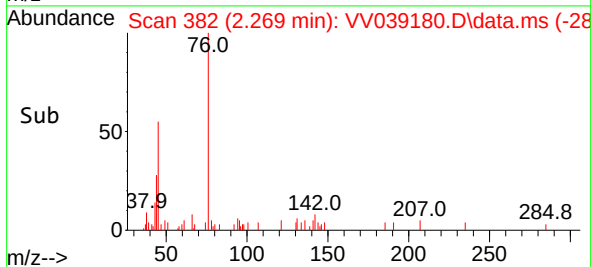
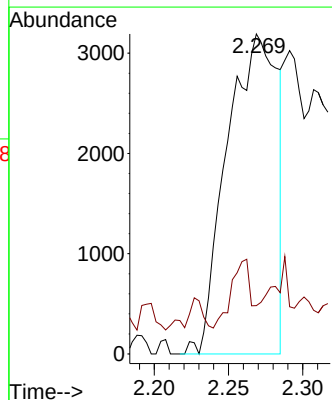
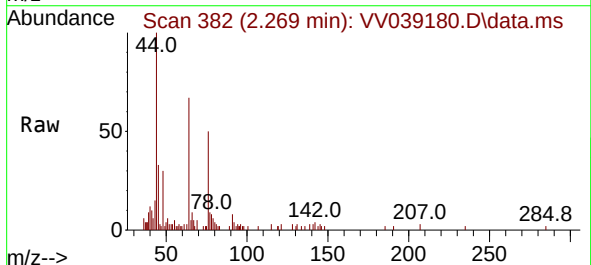
Instrument :
MSVOA_V
ClientSampleId :

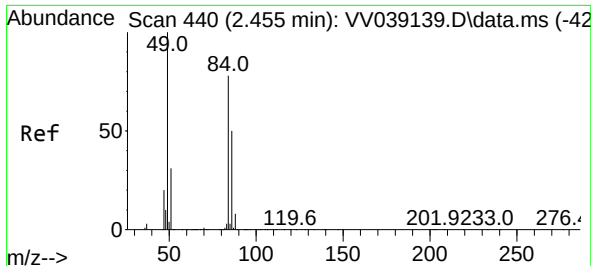
Tgt Ion: 43 Resp: 14208
Ion Ratio Lower Upper
43 100
58 33.9 25.8 38.6



#17
Carbon Disulfide
Concen: 0.253 ug/l
RT: 2.269 min Scan# 382
Delta R.T. 0.016 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion: 76 Resp: 7507
Ion Ratio Lower Upper
76 100
78 4.6 7.4 11.0#



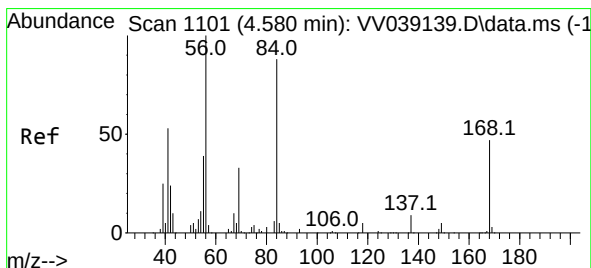
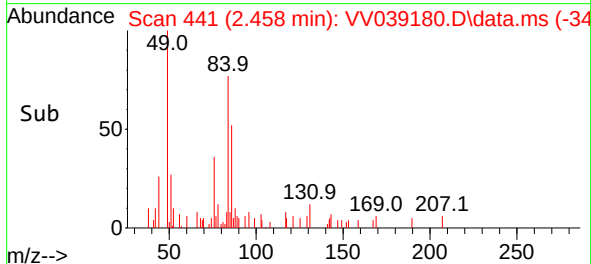
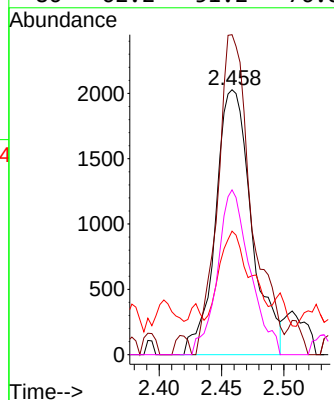
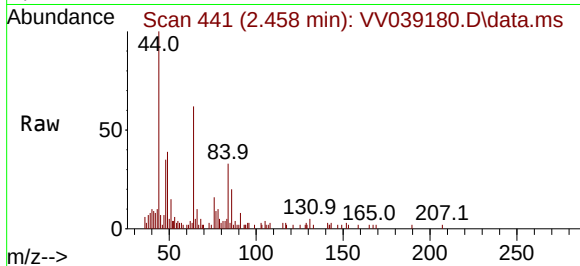


#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 84 Resp: 4099

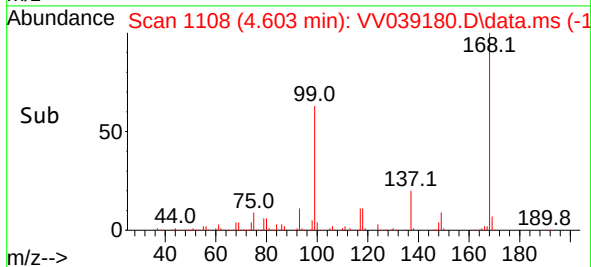
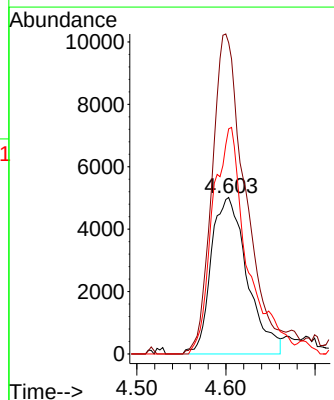
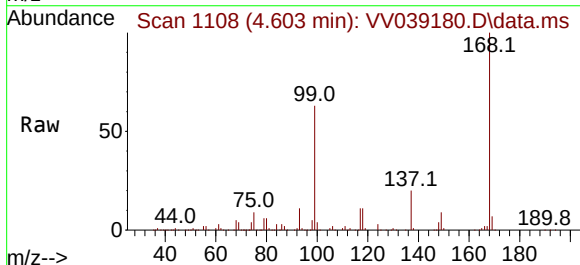
Ion	Ratio	Lower	Upper
84	100		
49	113.6	102.8	154.2
51	32.7	31.9	47.9
86	62.2	51.2	76.8

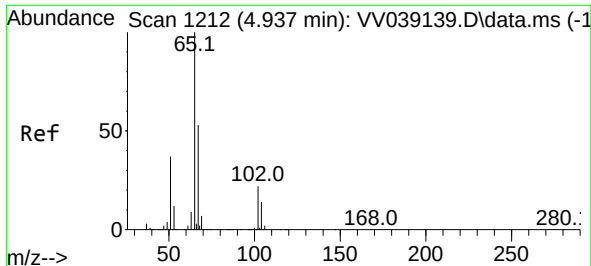


#31
Cyclohexane
Concen: 0.850 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion: 56 Resp: 14098

Ion	Ratio	Lower	Upper
56	100		
69	198.8	26.2	39.2#
84	143.9	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 56.561 ug/l

RT: 4.941 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039180.D

Acq: 25 Sep 2025 14:48

Instrument :

MSVOA_V

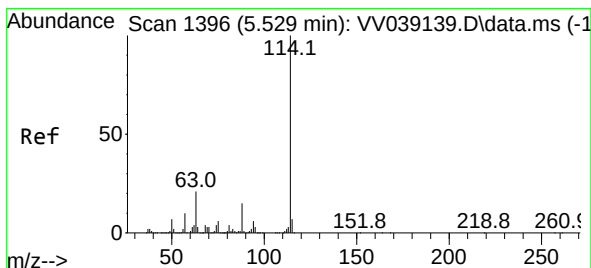
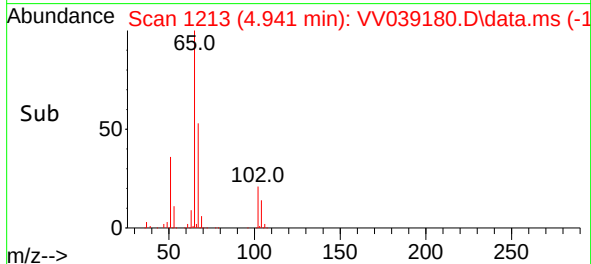
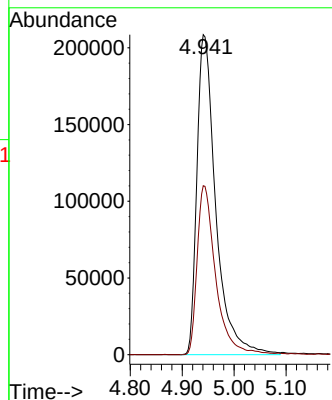
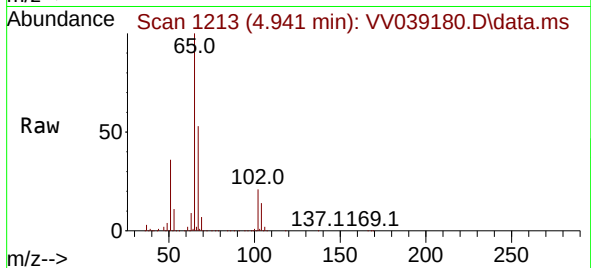
ClientSampleId :

Tgt Ion: 65 Resp: 525802

Ion Ratio Lower Upper

65 100

67 51.9 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039180.D

Acq: 25 Sep 2025 14:48

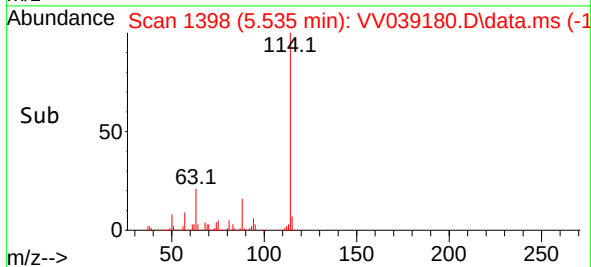
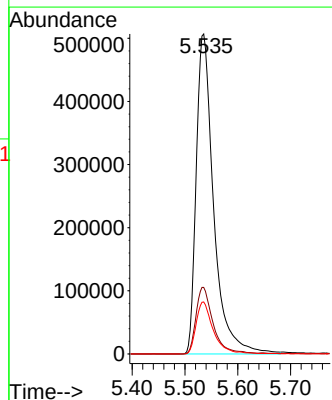
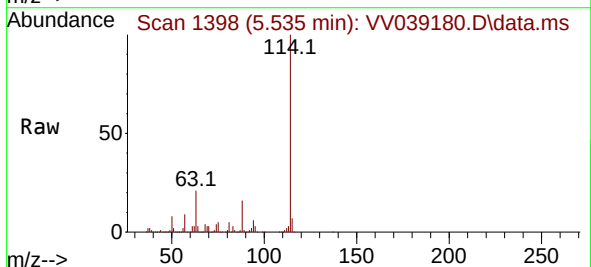
Tgt Ion: 114 Resp: 1161576

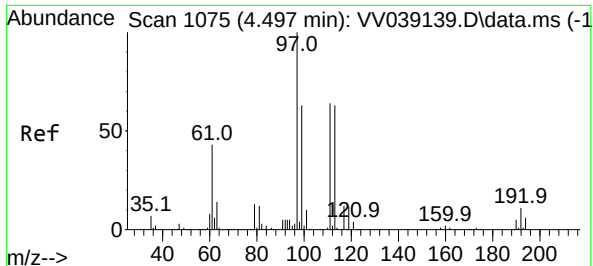
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

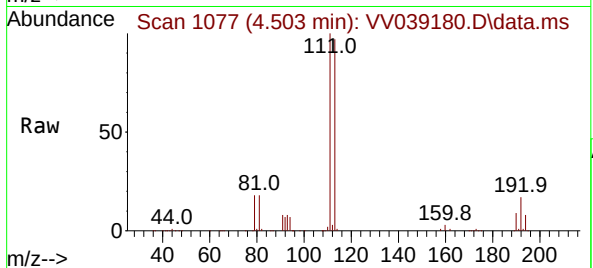
88 16.3 0.0 30.8



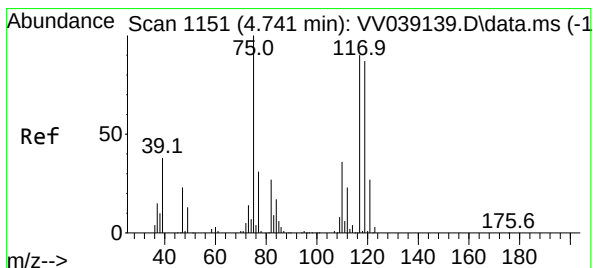
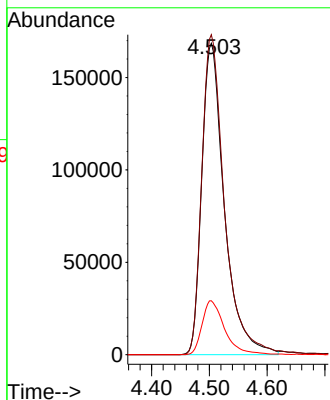
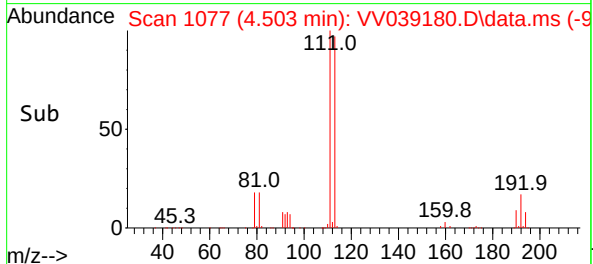


#35
Dibromofluoromethane
Concen: 49.102 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

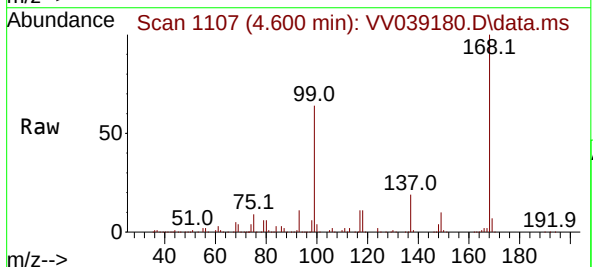
Instrument :
MSVOA_V
ClientSampleId :



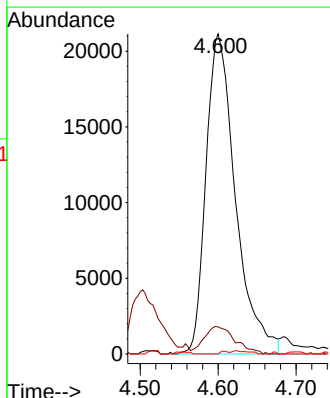
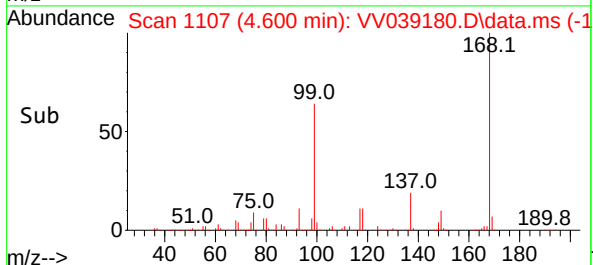
Tgt Ion:113 Resp: 458522
Ion Ratio Lower Upper
113 100
111 102.9 82.4 123.6
192 17.3 13.8 20.8

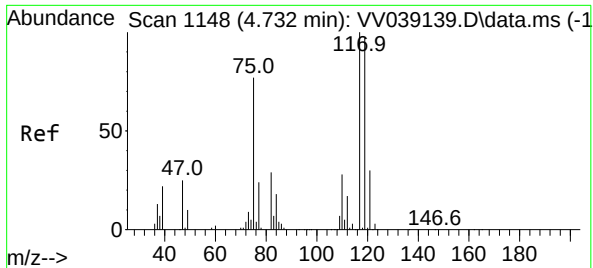


#36
1,1-Dichloropropene
Concen: 3.943 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48



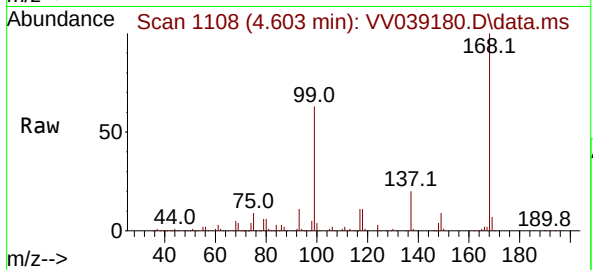
Tgt Ion: 75 Resp: 55669
Ion Ratio Lower Upper
75 100
110 9.1 18.1 54.1#
77 0.2 24.8 37.2#



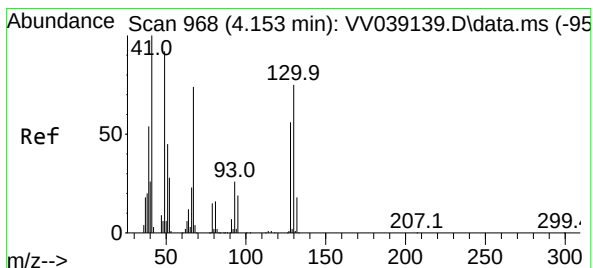
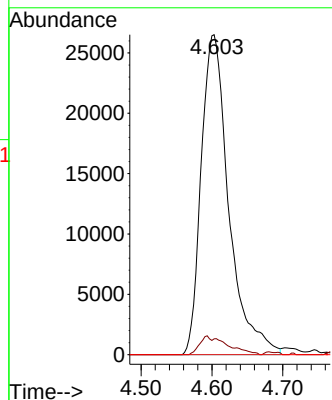
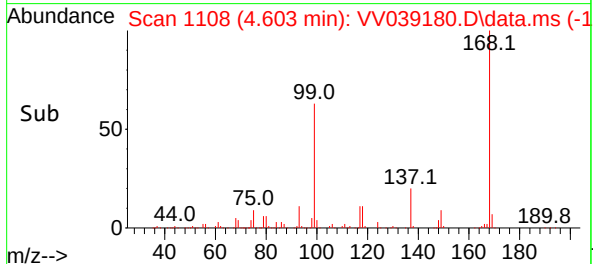


#38
Carbon Tetrachloride
Concen: 4.155 ug/l
RT: 4.603 min Scan# 1148
Delta R.T. -0.129 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Instrument :
MSVOA_V
ClientSampleId :

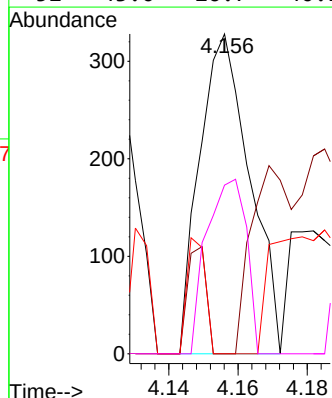
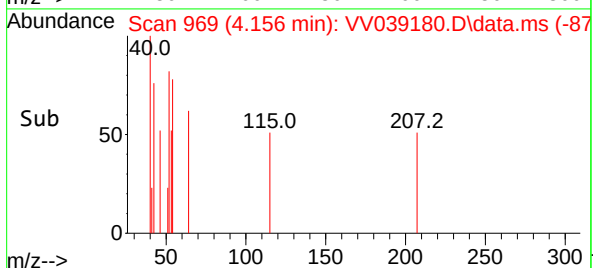
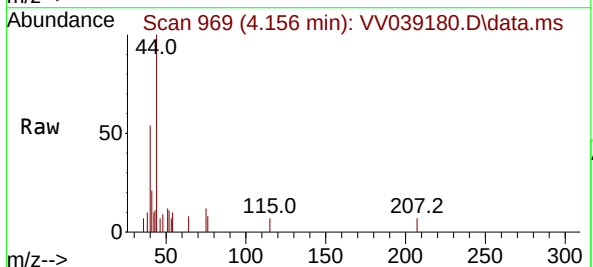


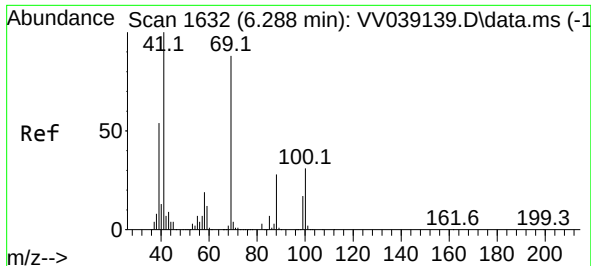
Tgt Ion:117 Resp: 71700
Ion Ratio Lower Upper
117 100
119 4.9 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.951 ug/l
RT: 4.156 min Scan# 969
Delta R.T. 0.003 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion: 41 Resp: 330
Ion Ratio Lower Upper
41 100
39 46.1 42.2 63.2
67 0.0 67.9 101.9#
52 43.0 26.7 40.1#





#49

1,4-Dioxane

Concen: 0.228 ug/l

RT: 6.330 min Scan# 1

Delta R.T. 0.042 min

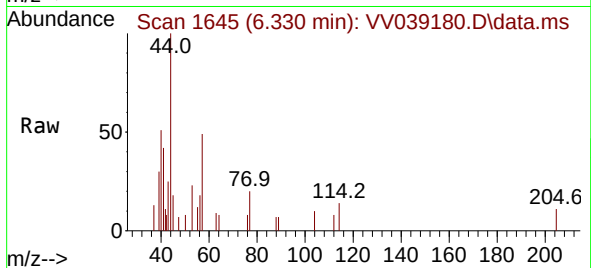
Lab File: VV039180.D

Acq: 25 Sep 2025 14:48

Instrument :

MSVOA_V

ClientSampleId :



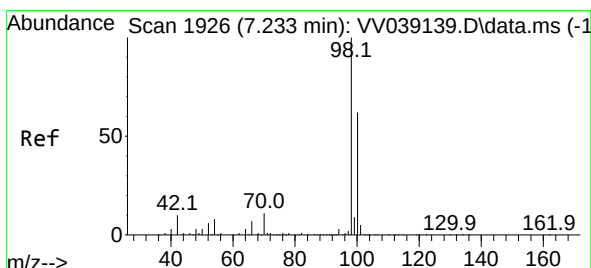
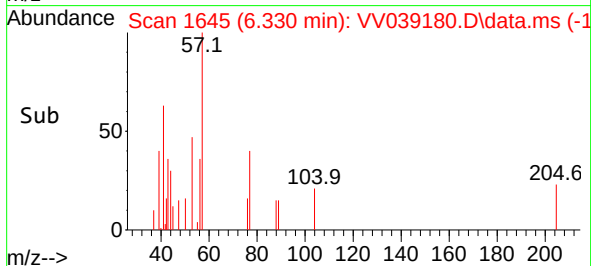
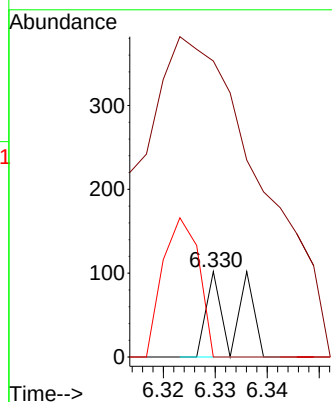
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 1815.4 25.1 37.7#

58 205.1 53.6 80.4#



#50

Toluene-d8

Concen: 45.259 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039180.D

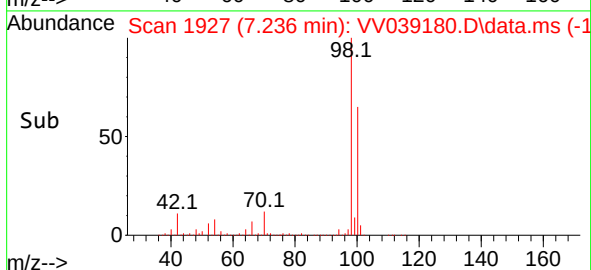
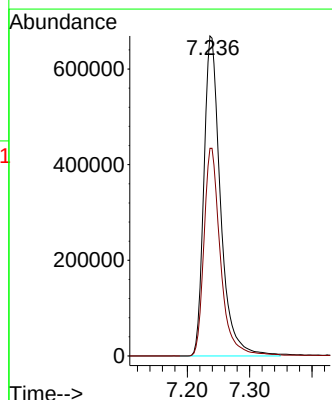
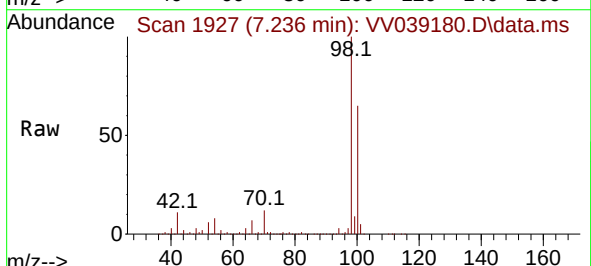
Acq: 25 Sep 2025 14:48

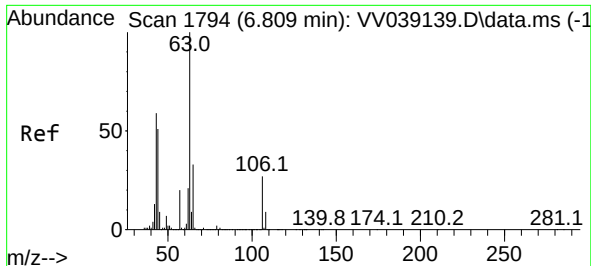
Tgt Ion: 98 Resp: 1241276

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2

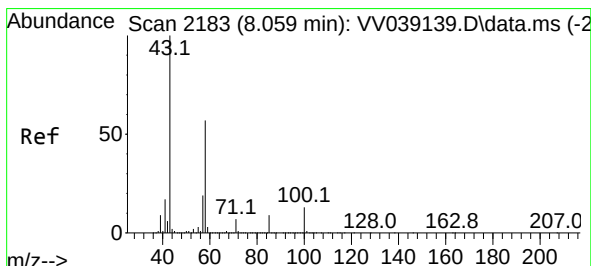
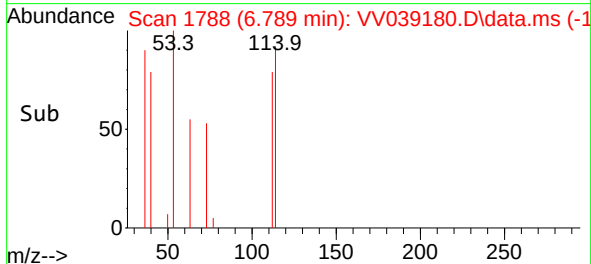
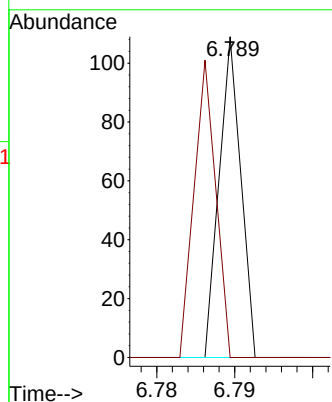
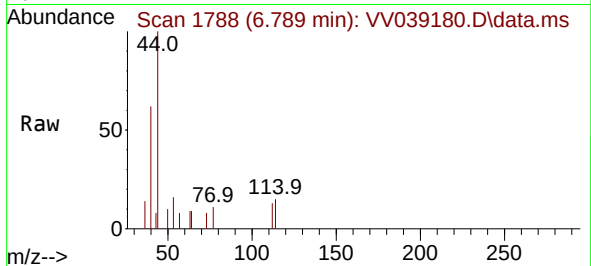




#58
2-Chloroethyl Vinyl ether
Concen: 9.625 ug/l
RT: 6.789 min Scan# 11
Delta R.T. -0.020 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

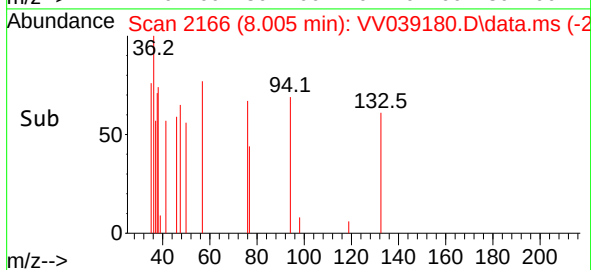
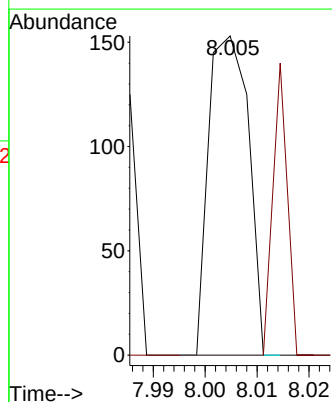
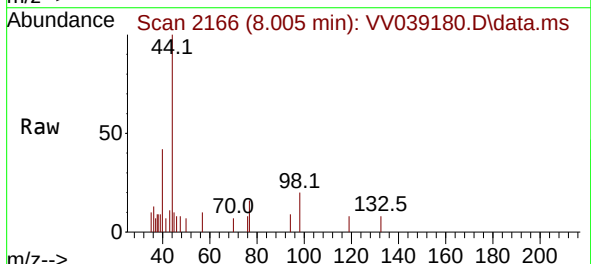
Instrument :
MSVOA_V
ClientSampleId :

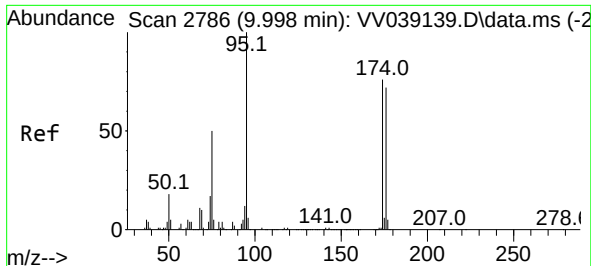
Tgt Ion: 63 Resp: 21
Ion Ratio Lower Upper
63 100
106 90.5 22.1 33.1#



#59
2-Hexanone
Concen: 2.332 ug/l
RT: 8.005 min Scan# 2166
Delta R.T. -0.054 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

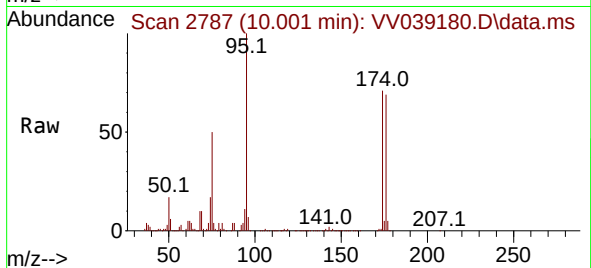
Tgt Ion: 43 Resp: 82
Ion Ratio Lower Upper
43 100
58 32.9 28.3 85.0



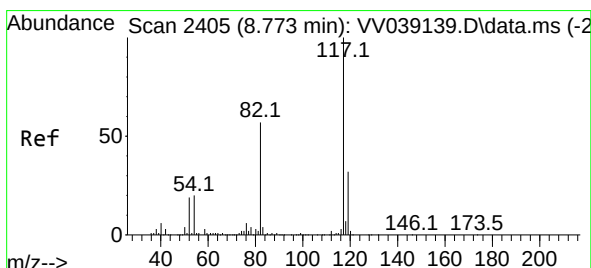
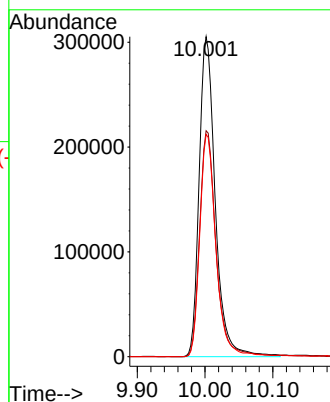
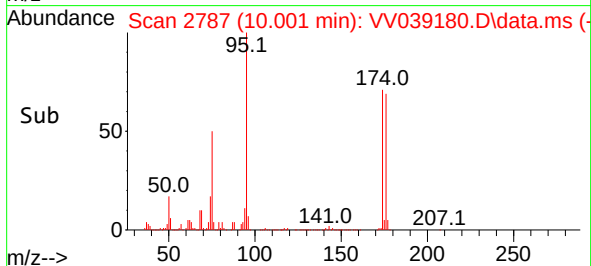


#62
4-Bromofluorobenzene
Concen: 44.814 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Instrument :
MSVOA_V
ClientSampleId :

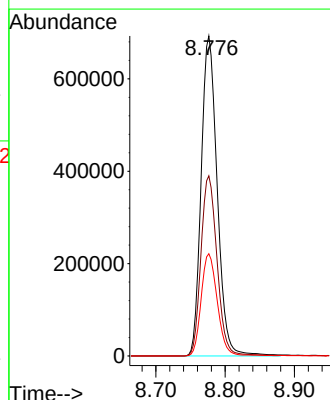
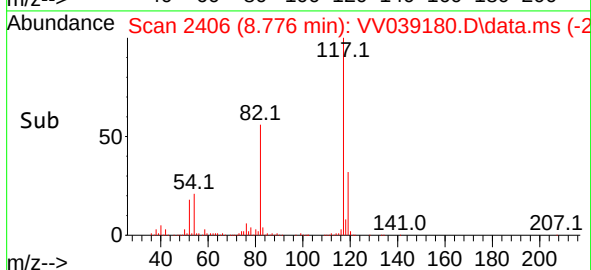
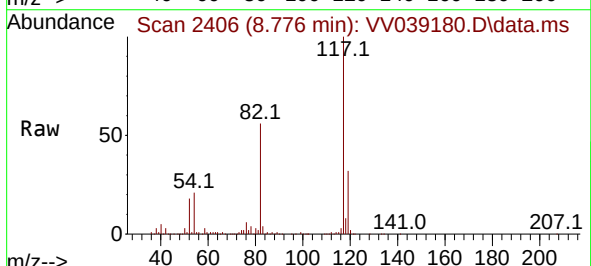


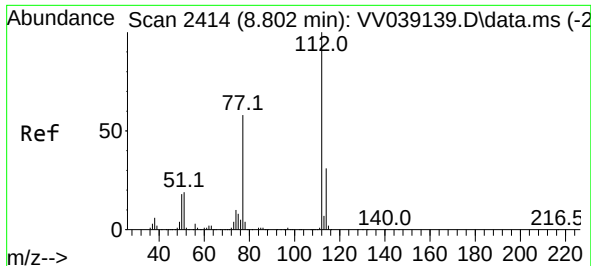
Tgt Ion: 95 Resp: 505982
Ion Ratio Lower Upper
95 100
174 72.4 0.0 150.4
176 69.7 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion: 117 Resp: 1114736
Ion Ratio Lower Upper
117 100
82 56.3 45.4 68.2
119 32.0 25.6 38.4

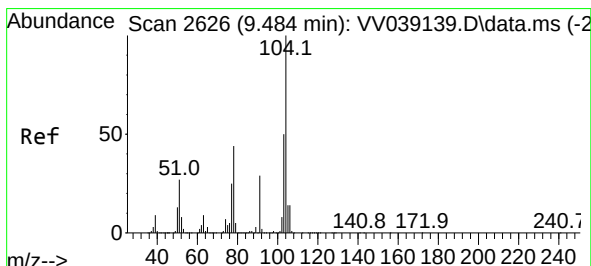
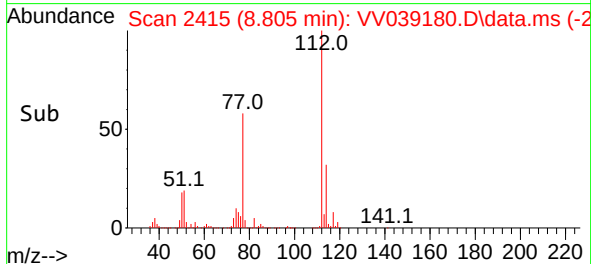
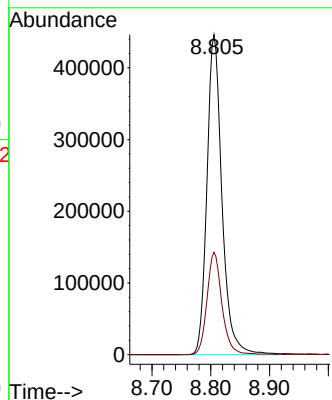
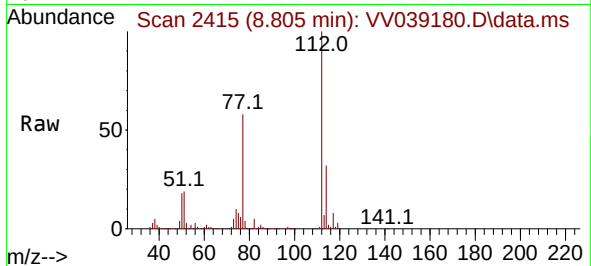




#65
Chlorobenzene
Concen: 25.475 ug/l
RT: 8.805 min Scan# 2414
Delta R.T. 0.003 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

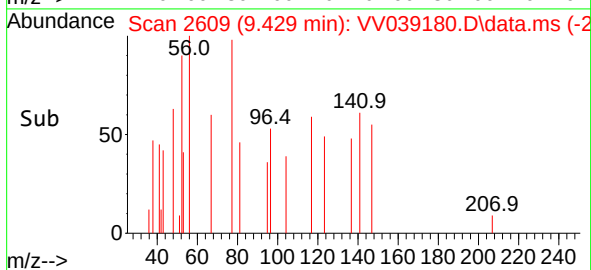
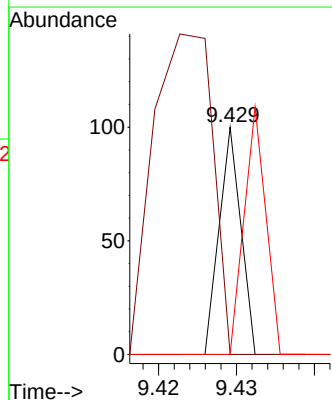
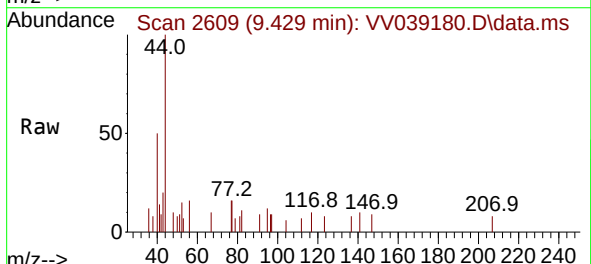
Instrument :
MSVOA_V
ClientSampleId :

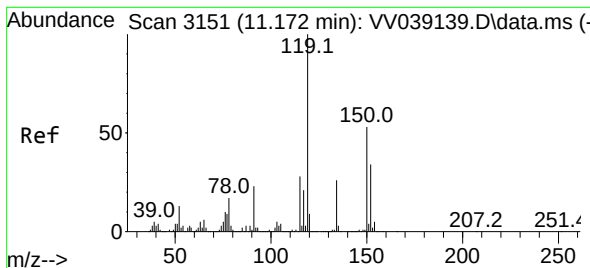
Tgt Ion:112 Resp: 791007
Ion Ratio Lower Upper
112 100
114 32.0 24.6 37.0



#70
Styrene
Concen: 1.562 ug/l
RT: 9.429 min Scan# 2609
Delta R.T. -0.055 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion:104 Resp: 19
Ion Ratio Lower Upper
104 100
78 394.7 39.8 59.6#
103 110.5 43.4 65.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 31

Delta R.T. 0.003 min

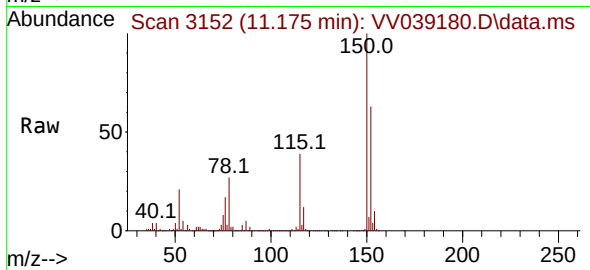
Lab File: VV039180.D

Acq: 25 Sep 2025 14:48

Instrument :

MSVOA_V

ClientSampleId :



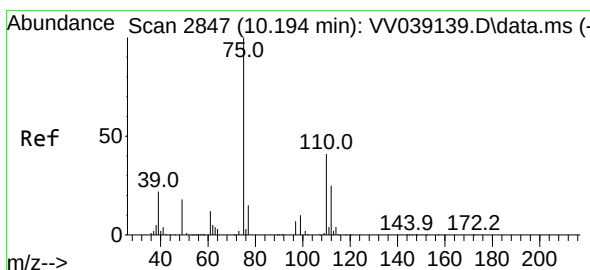
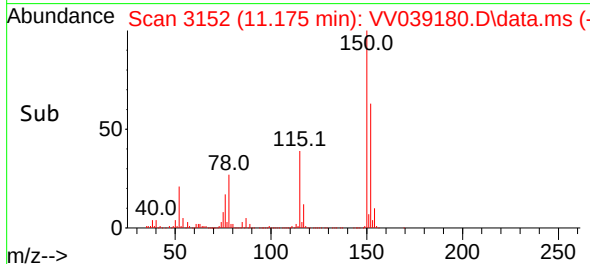
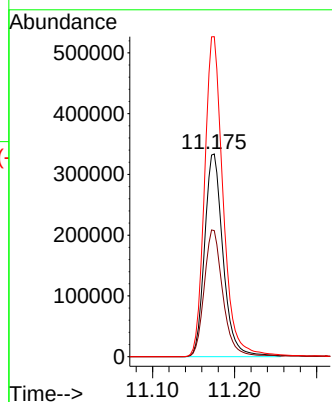
Tgt Ion:152 Resp: 523929

Ion Ratio Lower Upper

152 100

115 63.0 44.8 134.4

150 159.4 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 20.923 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039180.D

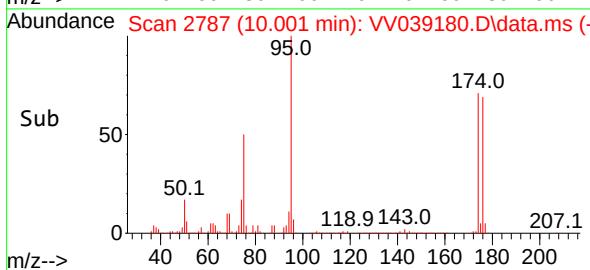
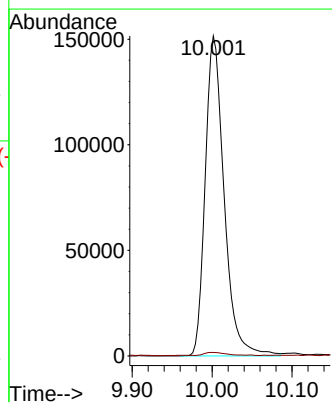
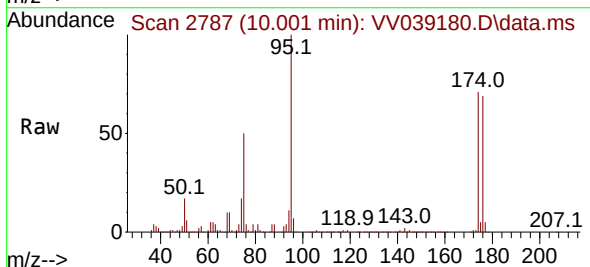
Acq: 25 Sep 2025 14:48

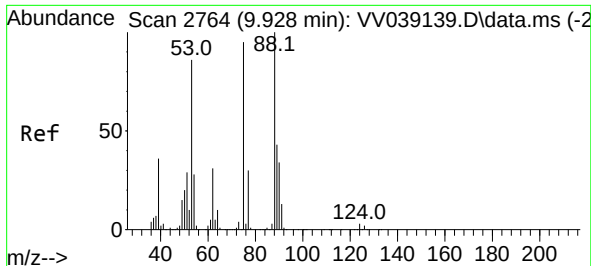
Tgt Ion: 75 Resp: 249597

Ion Ratio Lower Upper

75 100

77 1.2 11.3 33.8#

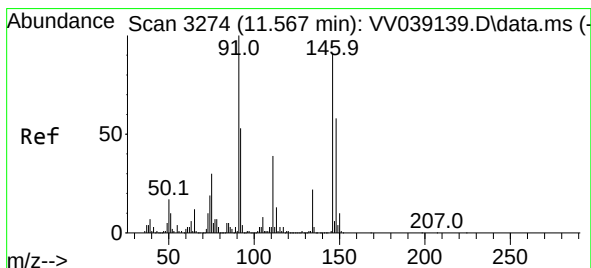
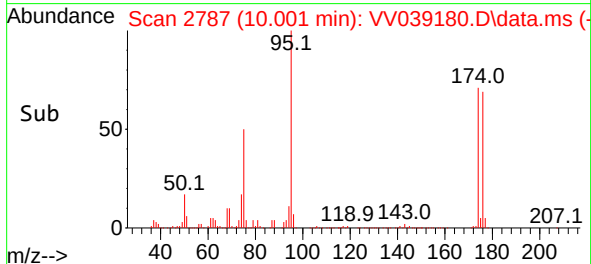
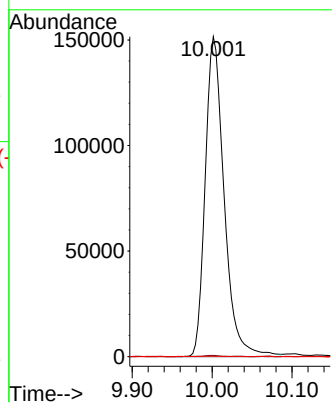
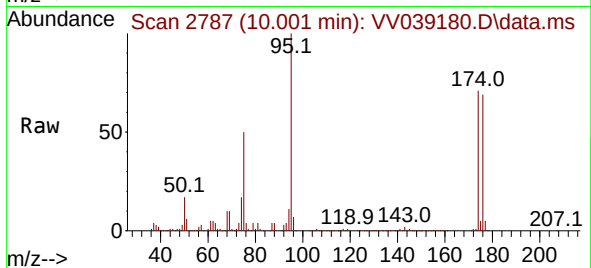




#81
trans-1,4-Dichloro-2-butene
Concen: 50.231 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

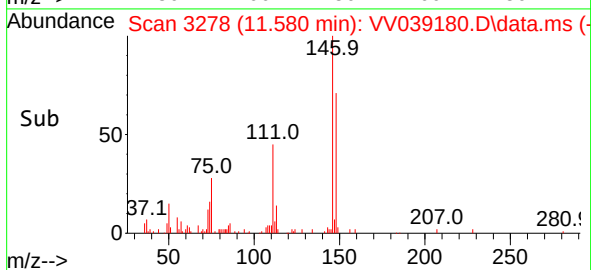
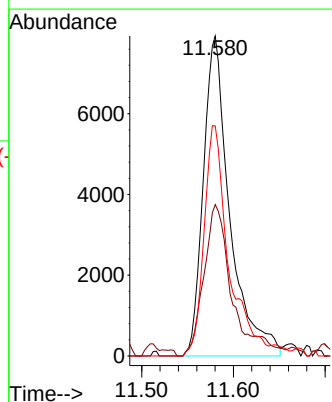
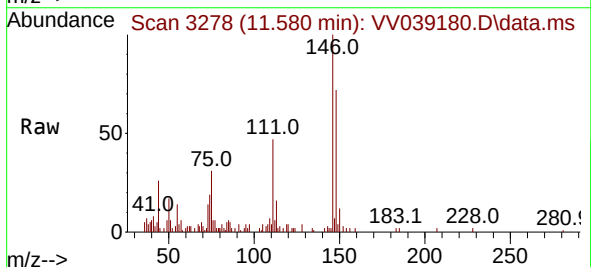
Instrument :
MSVOA_V
ClientSampleId :

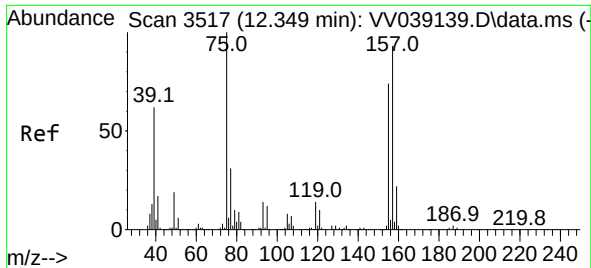
Tgt Ion: 75 Resp: 249597
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#



#91
1,2-Dichlorobenzene
Concen: 0.854 ug/l
RT: 11.580 min Scan# 3278
Delta R.T. 0.013 min
Lab File: VV039180.D
Acq: 25 Sep 2025 14:48

Tgt Ion: 146 Resp: 15912
Ion Ratio Lower Upper
146 100
111 50.2 21.5 64.5
148 66.7 31.9 95.7





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.349 min Scan# 3

Delta R.T. -0.000 min

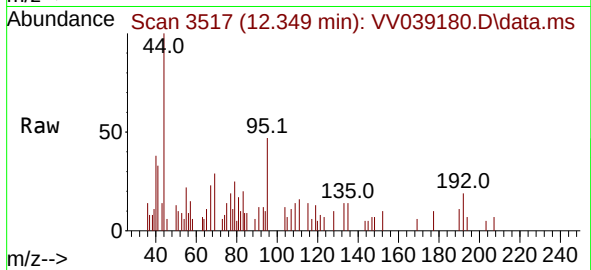
Lab File: VV039180.D

Acq: 25 Sep 2025 14:48

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 75 Resp: 298

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 7.0 49.5 148.3#

