

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039258.D
 Acq On : 03 Oct 2025 18:26
 Operator : SY/MD
 Sample : Q3201-03
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW15

Quant Time: Oct 04 01:15:41 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)

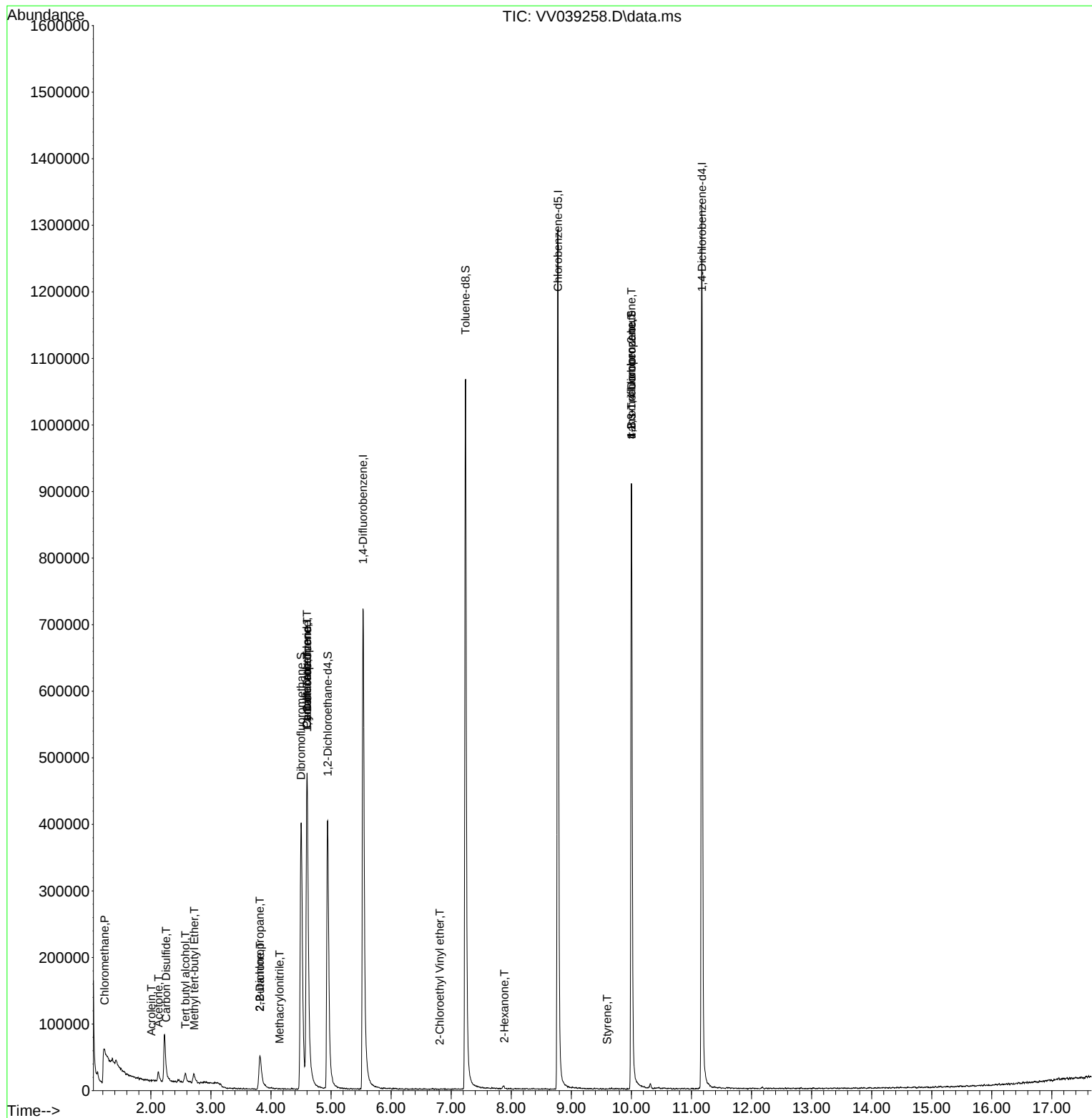
Internal Standards						
1) Pentafluorobenzene	4.600	168	410821	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	719975	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	749276	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	364005	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	352717	59.322	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 118.640%#	
35) Dibromofluoromethane	4.500	113	343112	59.280	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 118.560%	
50) Toluene-d8	7.239	98	780643	45.922	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 91.840%	
62) 4-Bromofluorobenzene	10.001	95	320017	45.728	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 91.460%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.230	50	2345	0.336	ug/l #	69
6) Chloroethane	1.651	64	2250	Below Cal	#	44
11) Tert butyl alcohol	2.577	59	11991	9.542	ug/l #	91
13) Acrolein	2.008	56	366	1.678	ug/l	93
16) Acetone	2.127	43	18201	0.349	ug/l	94
17) Carbon Disulfide	2.256	76	5502	0.290	ug/l	98
19) Methyl tert-butyl Ether	2.722	73	13805	0.699	ug/l	93
20) Methylene Chloride	2.465	84	1525	Below Cal	#	68
25) 2-Butanone	3.818	43	2245	0.472	ug/l #	85
26) 2,2-Dichloropropane	3.815	77	3657	0.319	ug/l #	52
31) Cyclohexane	4.600	56	8340	0.786	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	35509	4.058	ug/l #	45
38) Carbon Tetrachloride	4.600	117	42812	4.003	ug/l #	18
41) Methacrylonitrile	4.143	41	175	1.946	ug/l #	52
58) 2-Chloroethyl Vinyl ether	6.812	63	109	9.644	ug/l #	47
59) 2-Hexanone	7.886	43	192	2.350	ug/l	86
70) Styrene	9.596	104	20	1.562	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	154864	18.686	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	154864	44.859	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.188	75	115	Below Cal	#	5

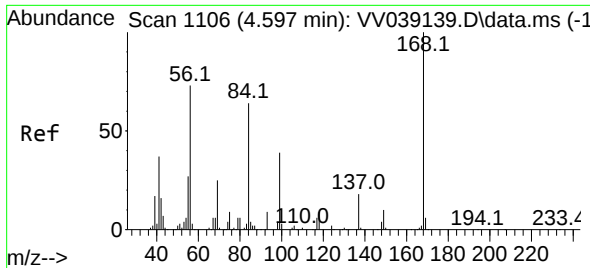
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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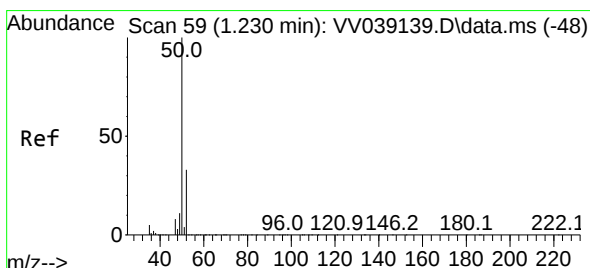
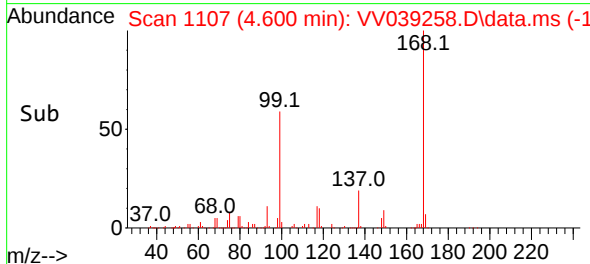
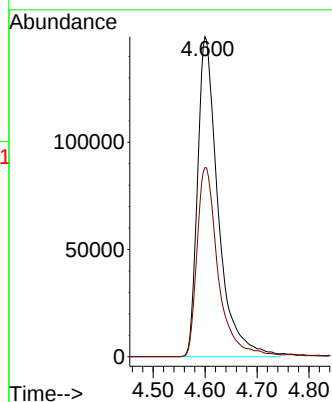
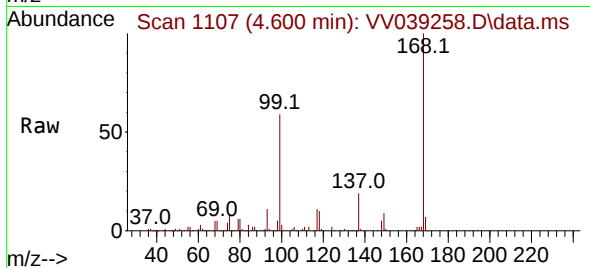




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

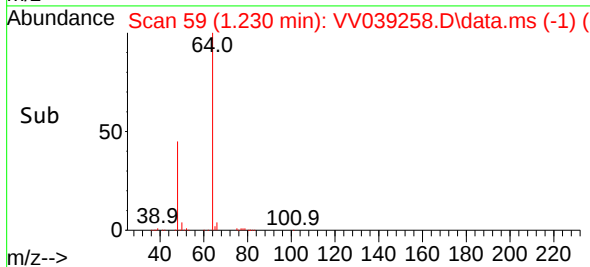
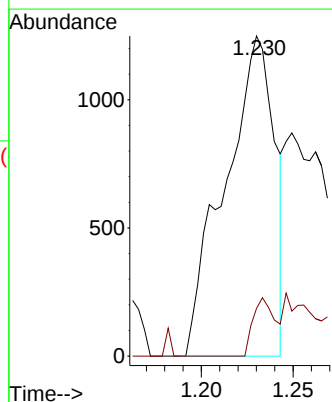
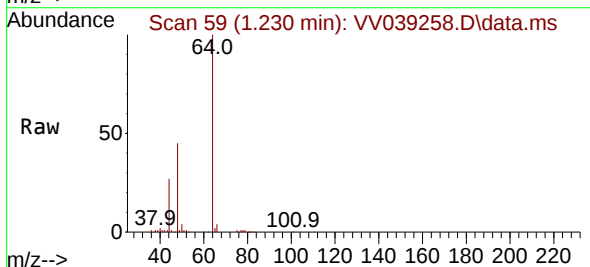
Instrument :
MSVOA_V
ClientSampleId :
MW15

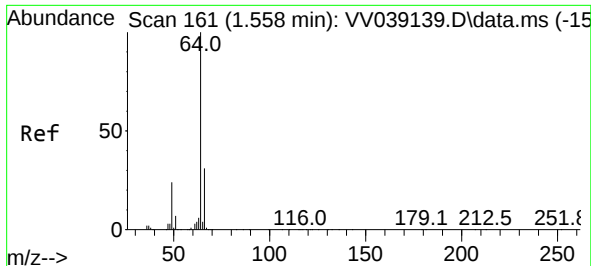
Tgt Ion:168 Resp: 410821
Ion Ratio Lower Upper
168 100
99 59.1 49.6 74.4



#3
Chloromethane
Concen: 0.336 ug/l
RT: 1.230 min Scan# 59
Delta R.T. 0.000 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion: 50 Resp: 2345
Ion Ratio Lower Upper
50 100
52 14.9 26.0 39.0#

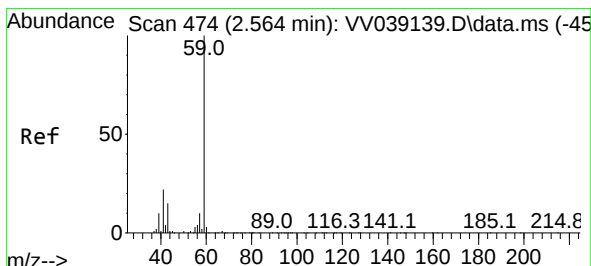
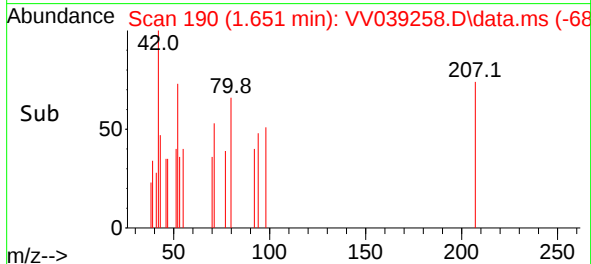
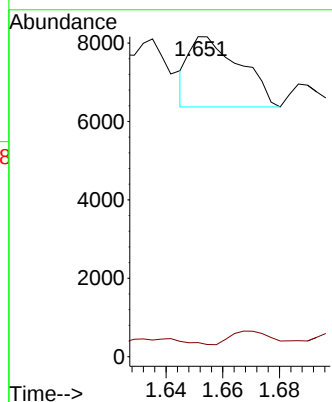
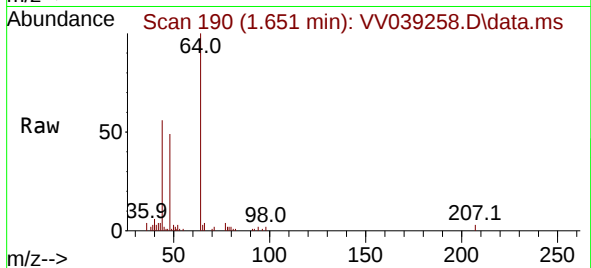




#6
Chloroethane
Concen: Below Cal
RT: 1.651 min Scan# 190
Delta R.T. 0.093 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

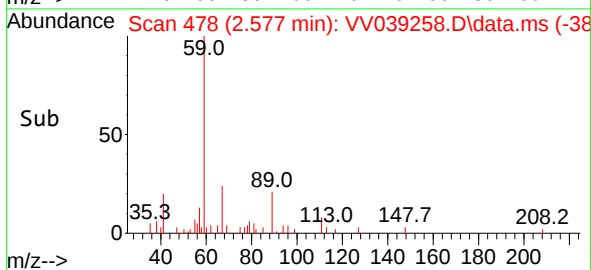
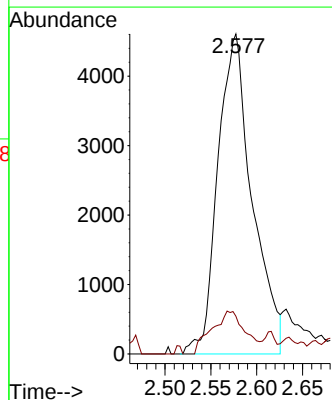
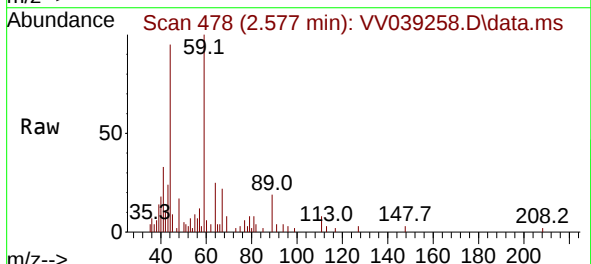
Instrument :
MSVOA_V
ClientSampleId :
MW15

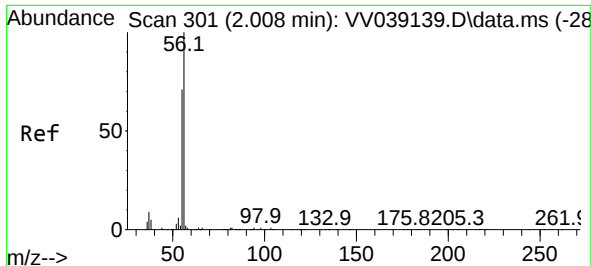
Tgt Ion: 64 Resp: 2250
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#11
Tert butyl alcohol
Concen: 9.542 ug/l
RT: 2.577 min Scan# 478
Delta R.T. 0.013 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion: 59 Resp: 11991
Ion Ratio Lower Upper
59 100
57 13.0 7.8 11.8#





#13

Acrolein

Concen: 1.678 ug/l

RT: 2.008 min Scan# 301

Delta R.T. 0.000 min

Lab File: VV039258.D

Acq: 03 Oct 2025 18:26

Instrument :

MSVOA_V

ClientSampleId :

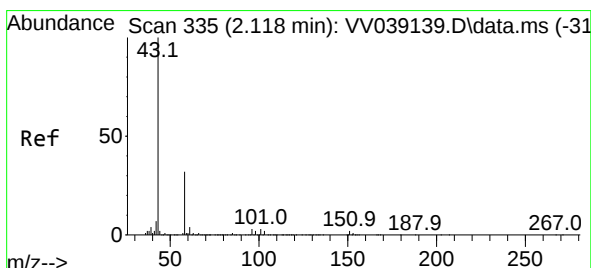
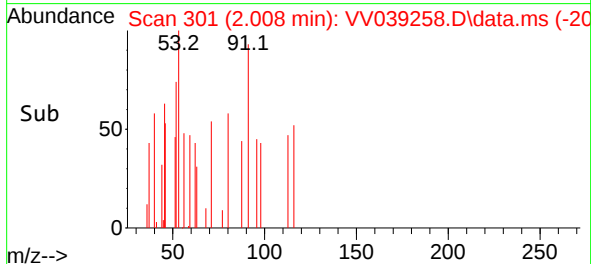
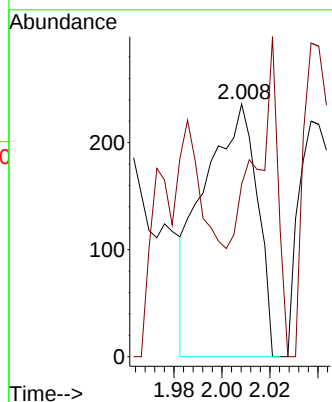
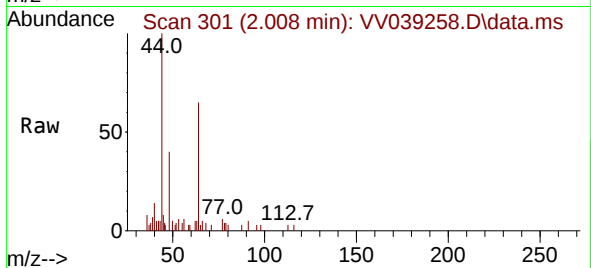
MW15

Tgt Ion: 56 Resp: 366

Ion Ratio Lower Upper

56 100

55 64.5 56.2 84.4



#16

Acetone

Concen: 0.349 ug/l

RT: 2.127 min Scan# 338

Delta R.T. 0.009 min

Lab File: VV039258.D

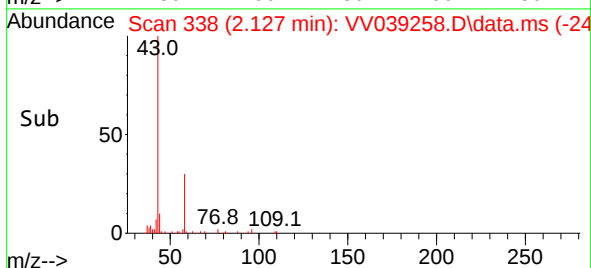
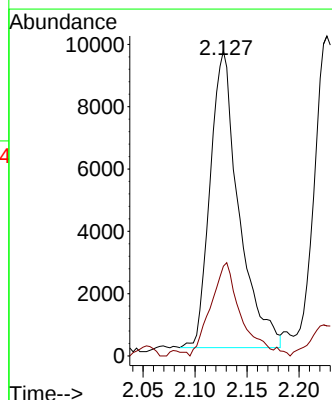
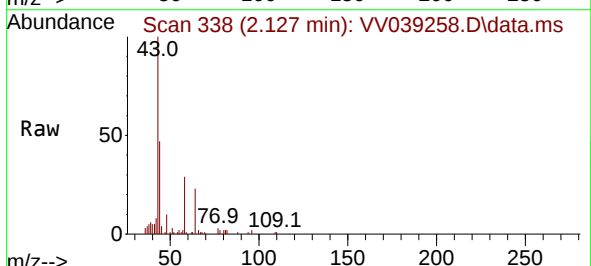
Acq: 03 Oct 2025 18:26

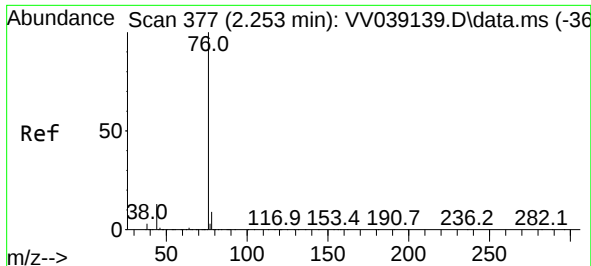
Tgt Ion: 43 Resp: 18201

Ion Ratio Lower Upper

43 100

58 29.0 25.8 38.6

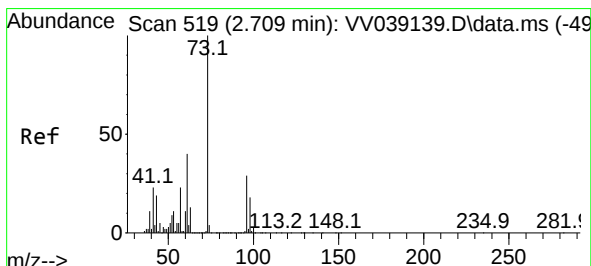
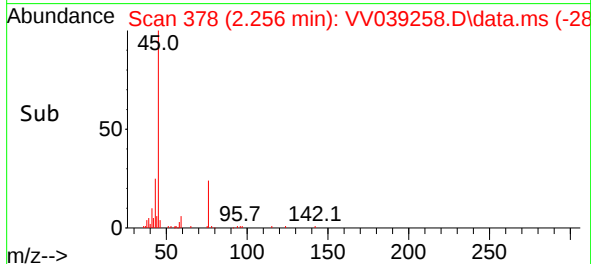
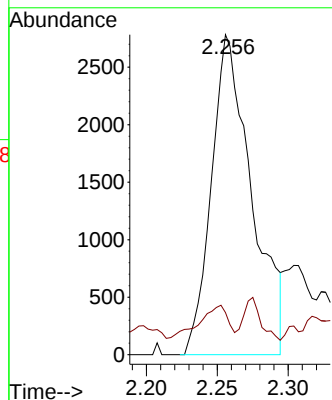
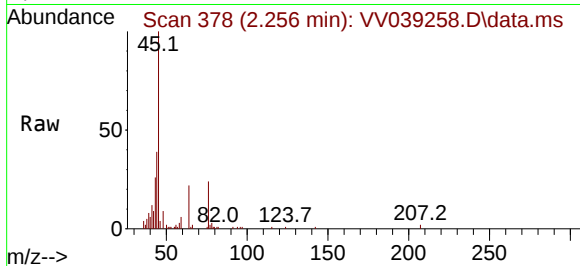




#17
Carbon Disulfide
Concen: 0.290 ug/l
RT: 2.256 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

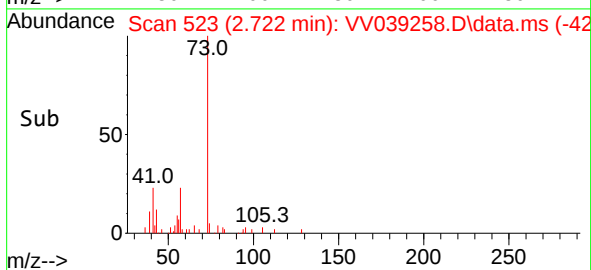
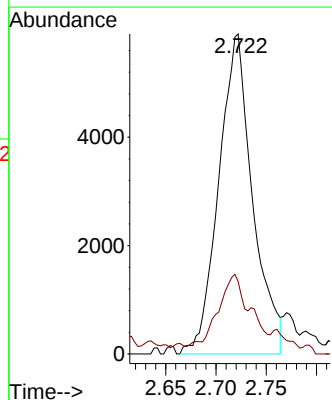
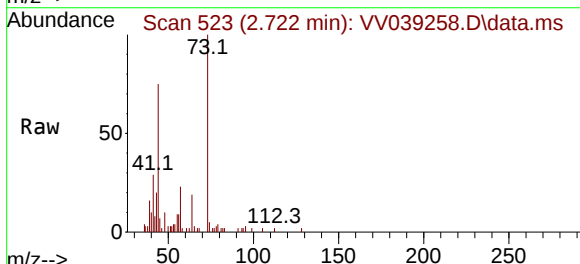
Instrument :
MSVOA_V
ClientSampleId :
MW15

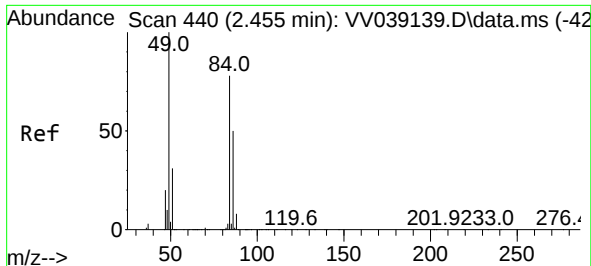
Tgt Ion: 76 Resp: 5502
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.0



#19
Methyl tert-butyl Ether
Concen: 0.699 ug/l
RT: 2.722 min Scan# 523
Delta R.T. 0.013 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion: 73 Resp: 13805
Ion Ratio Lower Upper
73 100
57 19.4 18.2 27.4

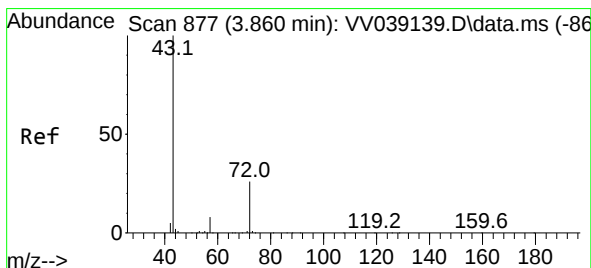
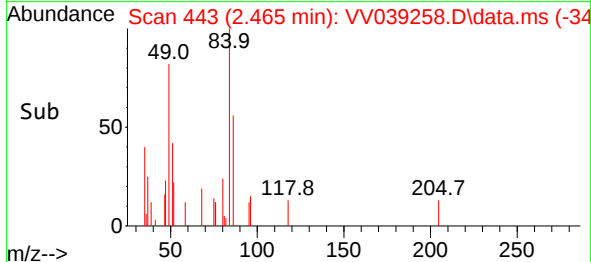
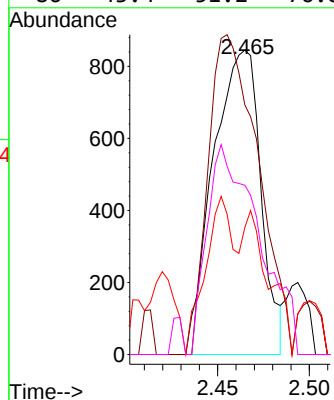
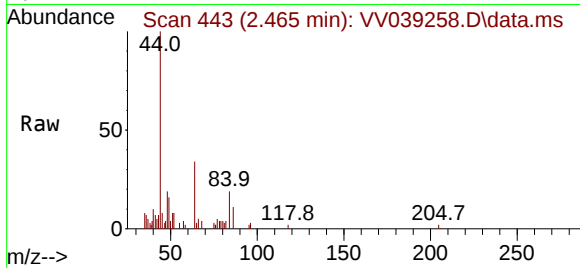




#20
Methylene Chloride
Concen: Below Cal
RT: 2.465 min Scan# 440
Delta R.T. 0.010 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

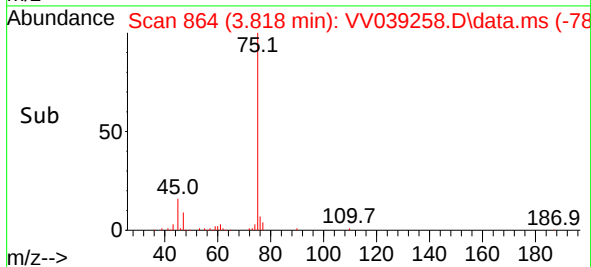
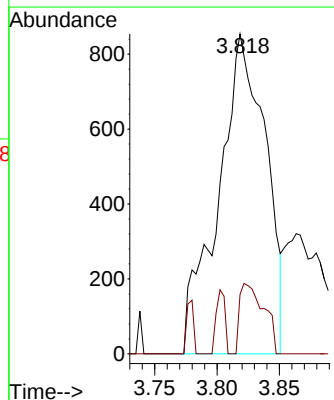
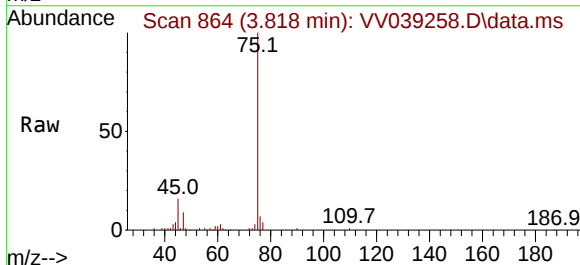
Instrument :
MSVOA_V
ClientSampleId :
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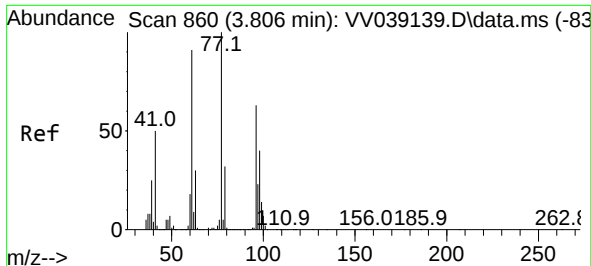
Tgt Ion:	84	Resp:	1525
Ion	Ratio	Lower	Upper
84	100		
49	82.0	102.8	154.2#
51	29.5	31.9	47.9#
86	43.4	51.2	76.8#



#25
2-Butanone
Concen: 0.472 ug/l
RT: 3.818 min Scan# 864
Delta R.T. -0.042 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion:	43	Resp:	2245
Ion	Ratio	Lower	Upper
43	100		
72	18.6	21.0	31.6#





#26

2,2-Dichloropropane

Concen: 0.319 ug/l

RT: 3.815 min Scan# 8

Delta R.T. 0.010 min

Lab File: VV039258.D

Acq: 03 Oct 2025 18:26

Instrument :

MSVOA_V

ClientSampleId :

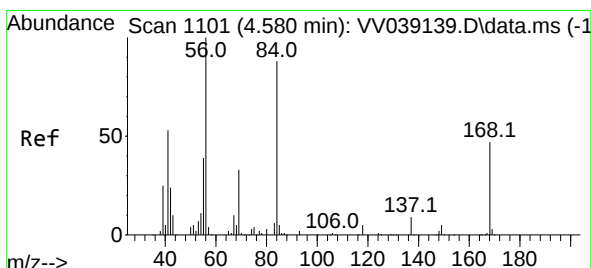
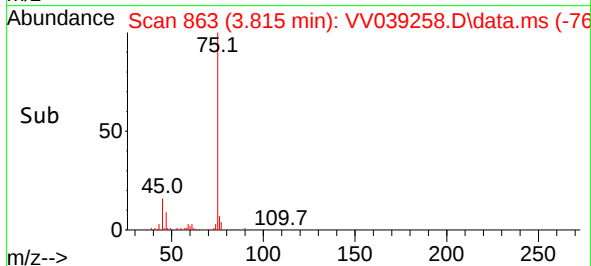
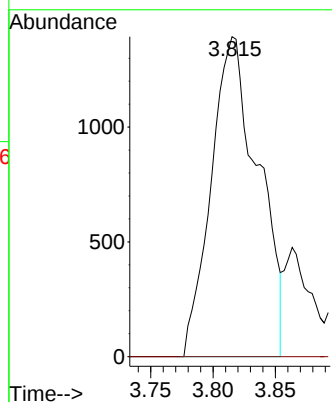
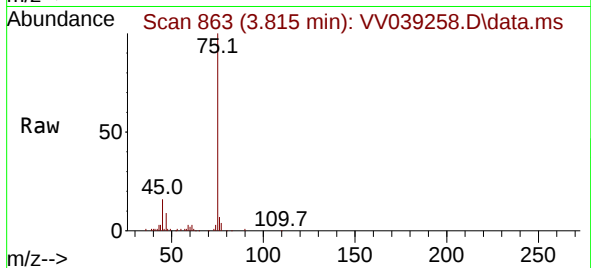
MW15

Tgt Ion: 77 Resp: 3657

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.7#



#31

Cyclohexane

Concen: 0.786 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. 0.019 min

Lab File: VV039258.D

Acq: 03 Oct 2025 18:26

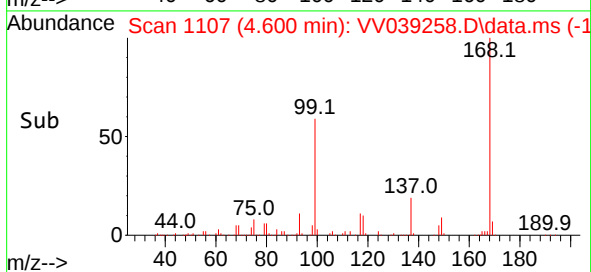
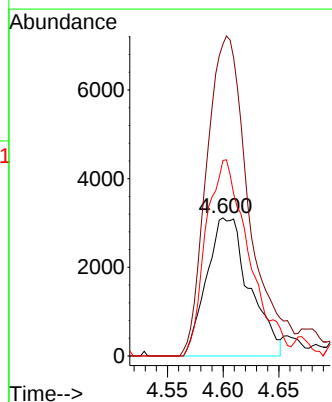
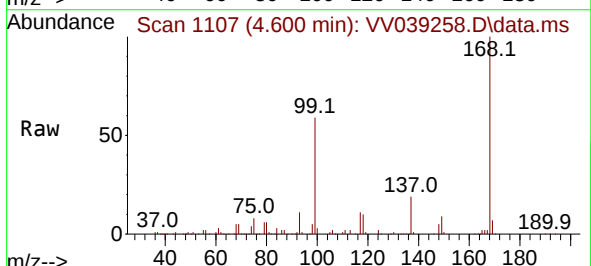
Tgt Ion: 56 Resp: 8340

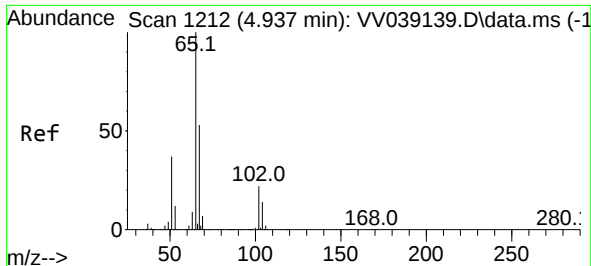
Ion Ratio Lower Upper

56 100

69 225.7 26.2 39.2#

84 141.5 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 59.322 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039258.D

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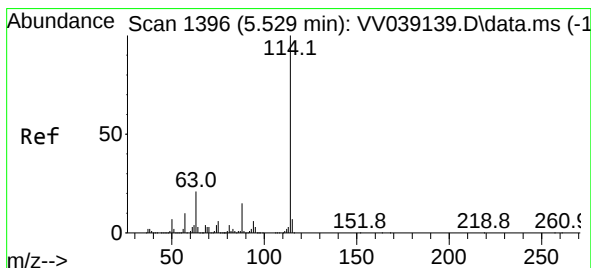
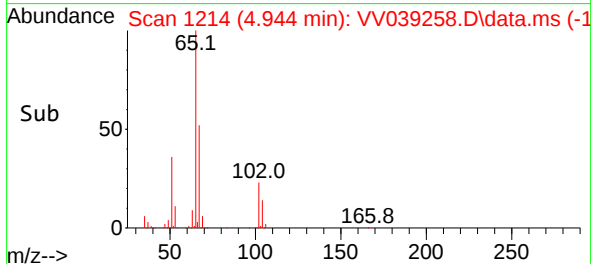
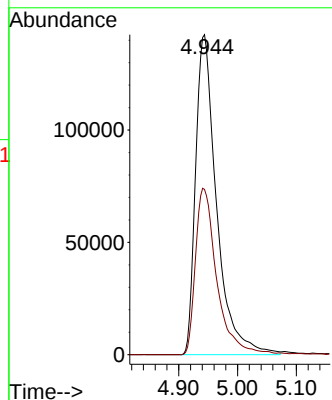
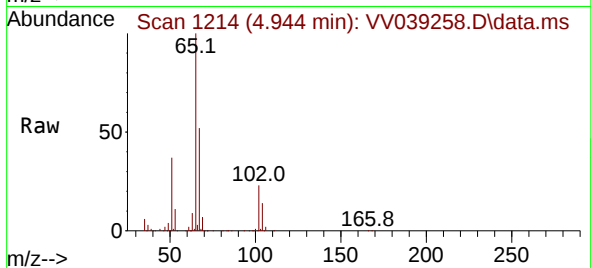
MW15

Tgt Ion: 65 Resp: 352717

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039258.D

Acq: 03 Oct 2025 18:26

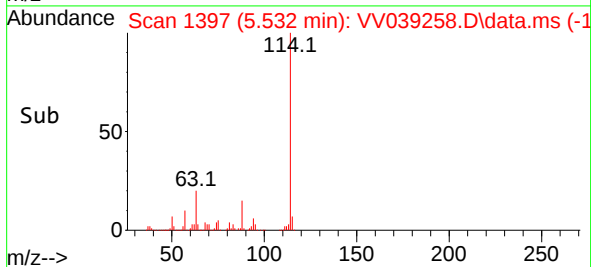
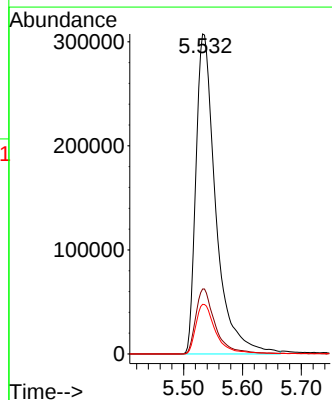
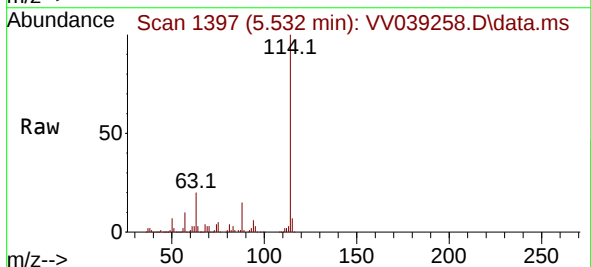
Tgt Ion: 114 Resp: 719975

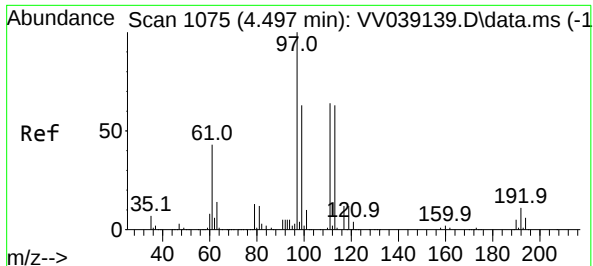
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 15.5 0.0 30.8

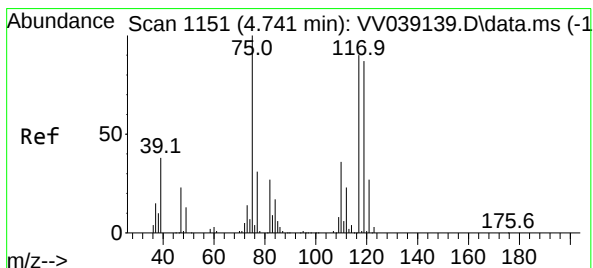
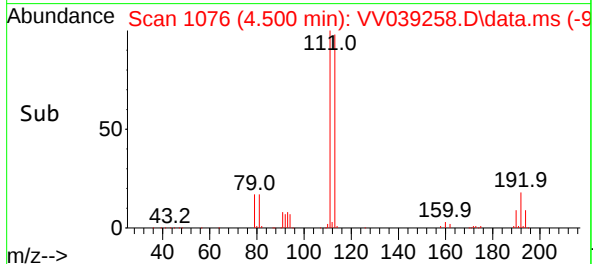
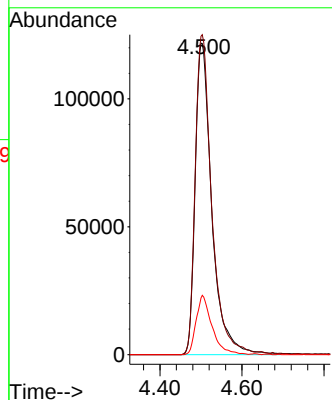
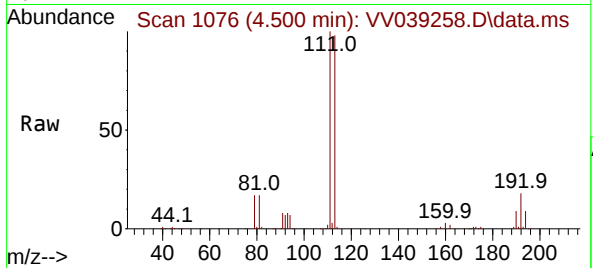




#35
Dibromofluoromethane
Concen: 59.280 ug/l
RT: 4.500 min Scan# 1108
Delta R.T. 0.003 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

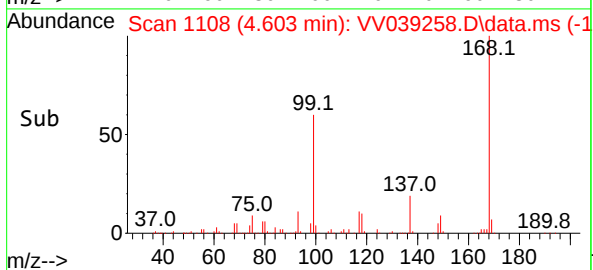
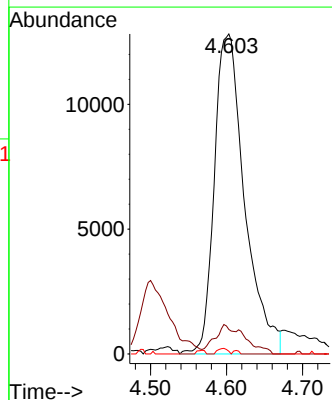
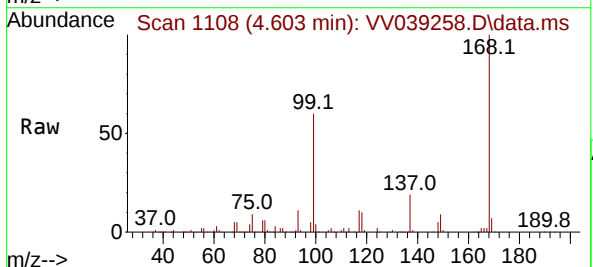
Instrument :
MSVOA_V
ClientSampleId :
MW15

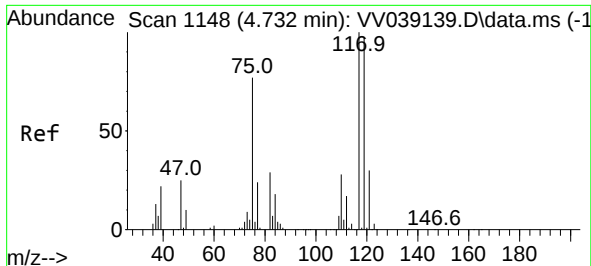
Tgt Ion:113 Resp: 343112
Ion Ratio Lower Upper
113 100
111 101.5 82.4 123.6
192 18.2 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.058 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.138 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion: 75 Resp: 35509
Ion Ratio Lower Upper
75 100
110 4.4 18.1 54.1#
77 0.6 24.8 37.2#

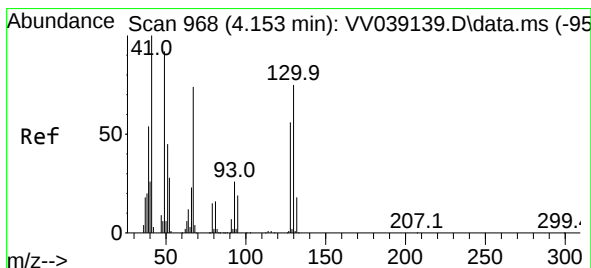
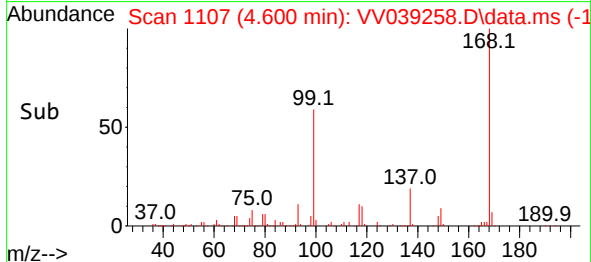
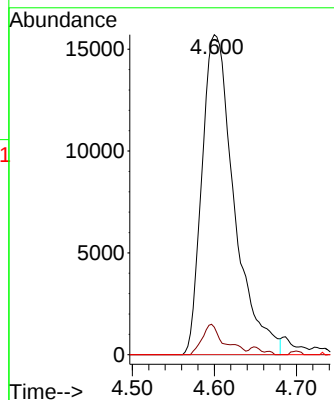
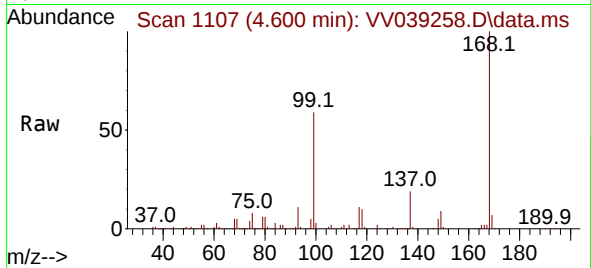




#38
Carbon Tetrachloride
Concen: 4.003 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

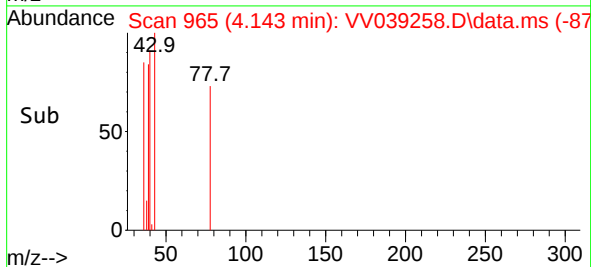
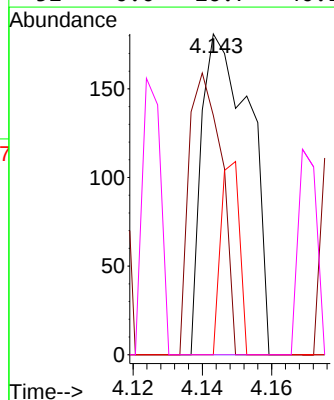
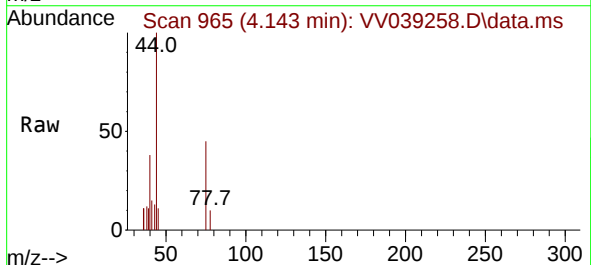
Instrument :
MSVOA_V
ClientSampleId :
MW15

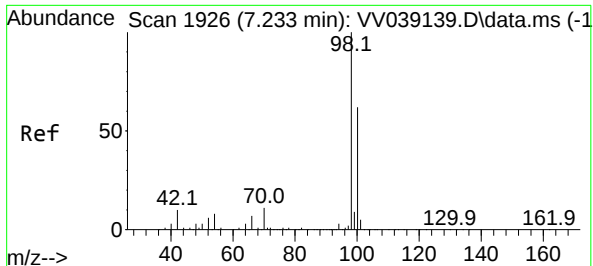
Tgt Ion:117 Resp: 42812
Ion Ratio Lower Upper
117 100
119 8.6 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.946 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.010 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion: 41 Resp: 175
Ion Ratio Lower Upper
41 100
39 58.9 42.2 63.2
67 23.4 67.9 101.9#
52 0.0 26.7 40.1#





#50

Toluene-d8

Concen: 45.922 ug/l

RT: 7.239 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV039258.D

Acq: 03 Oct 2025 18:26

Instrument :

MSVOA_V

ClientSampleId :

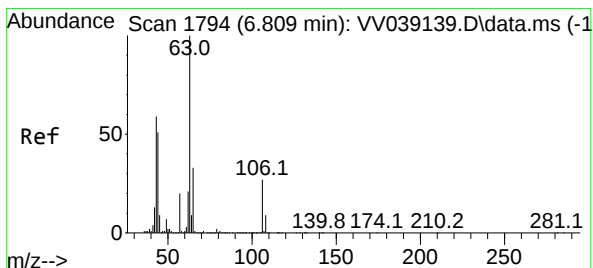
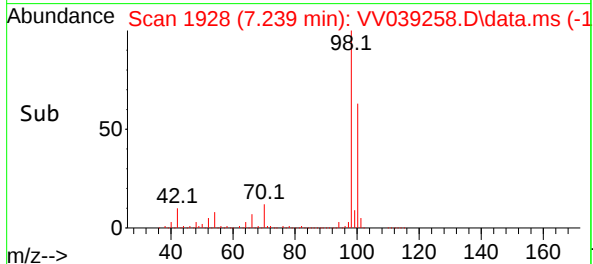
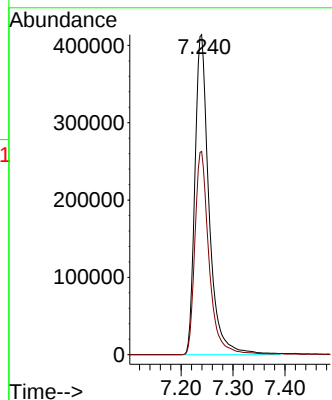
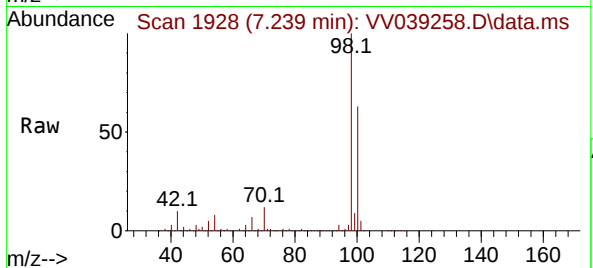
MW15

Tgt Ion: 98 Resp: 780643

Ion Ratio Lower Upper

98 100

100 63.6 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.644 ug/l

RT: 6.812 min Scan# 1795

Delta R.T. 0.003 min

Lab File: VV039258.D

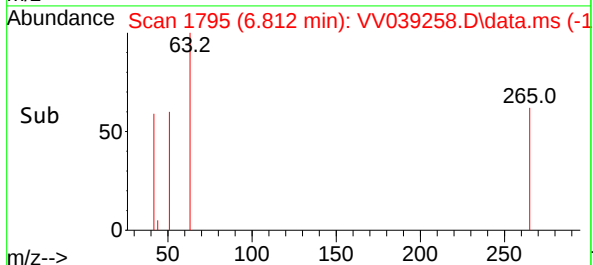
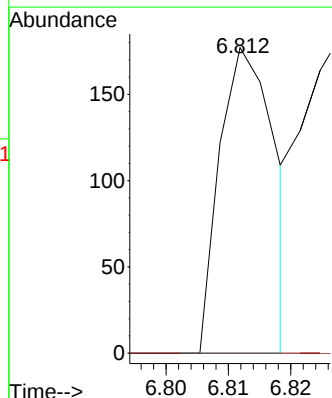
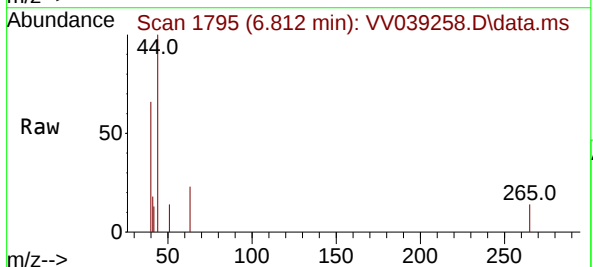
Acq: 03 Oct 2025 18:26

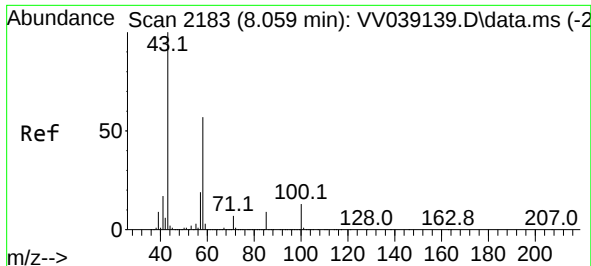
Tgt Ion: 63 Resp: 109

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.350 ug/l

RT: 7.886 min Scan# 2183

Delta R.T. -0.173 min

Lab File: VV039258.D

Acq: 03 Oct 2025 18:26

Instrument :

MSVOA_V

ClientSampleId :

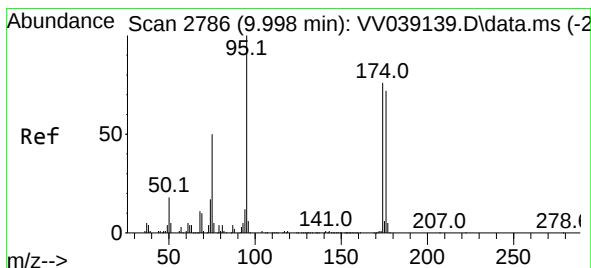
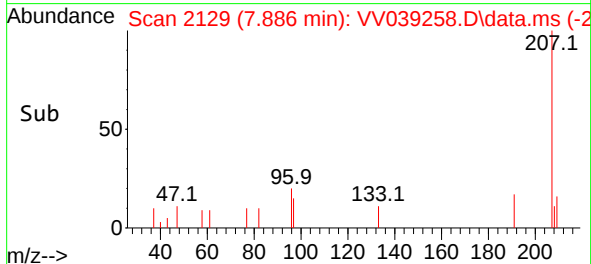
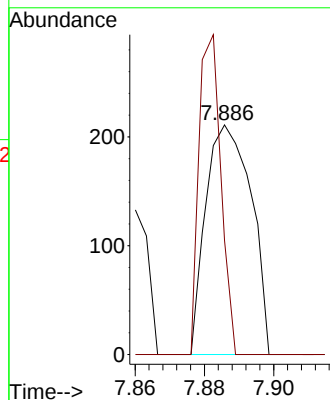
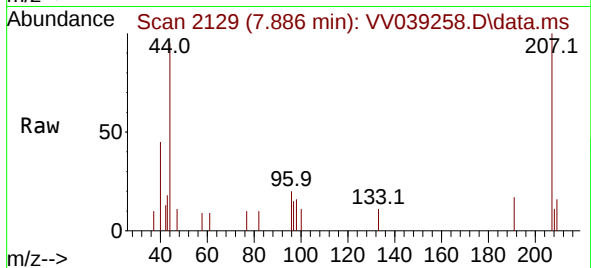
MW15

Tgt Ion: 43 Resp: 192

Ion Ratio Lower Upper

43 100

58 67.2 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 45.728 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039258.D

Acq: 03 Oct 2025 18:26

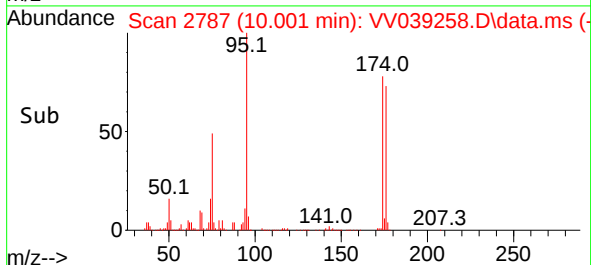
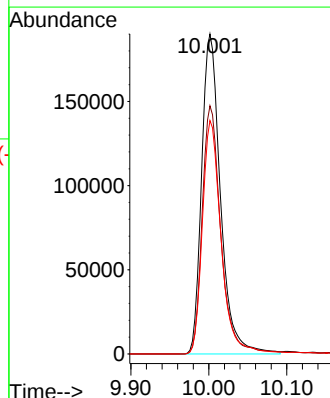
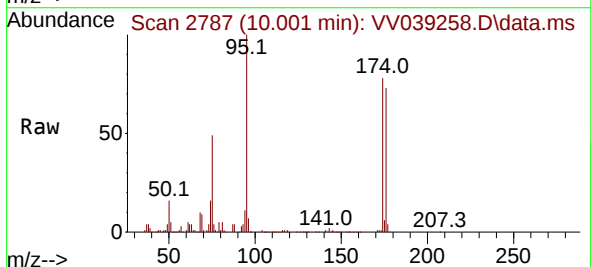
Tgt Ion: 95 Resp: 320017

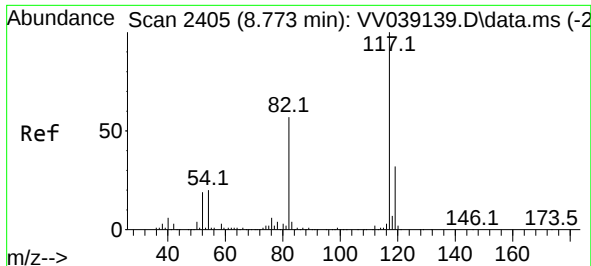
Ion Ratio Lower Upper

95 100

174 77.3 0.0 150.4

176 72.7 0.0 144.2

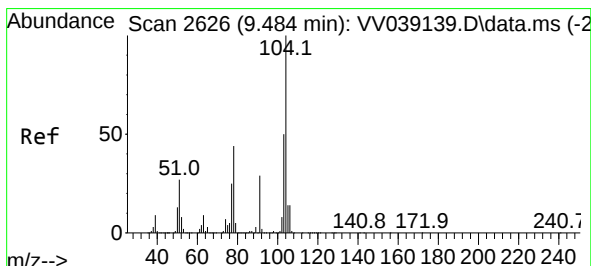
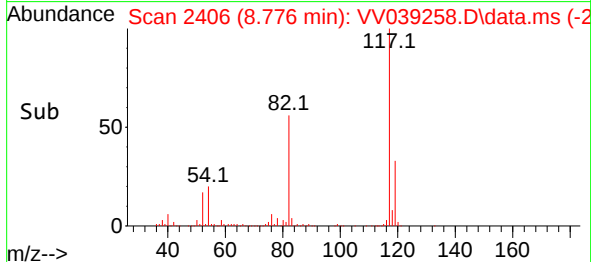
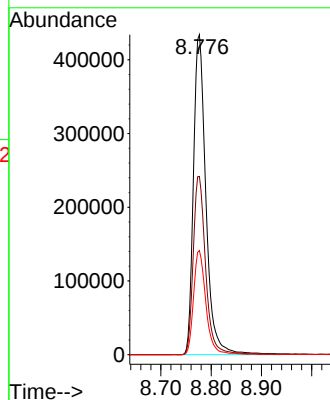
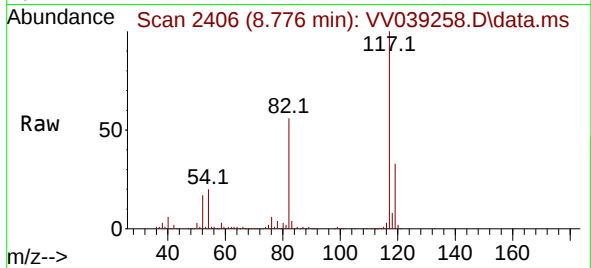




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

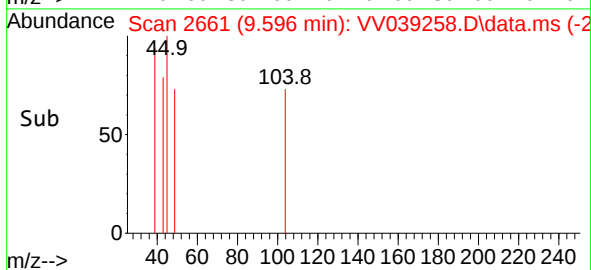
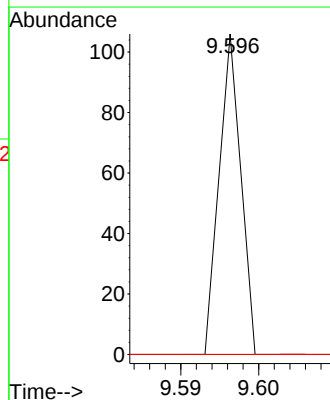
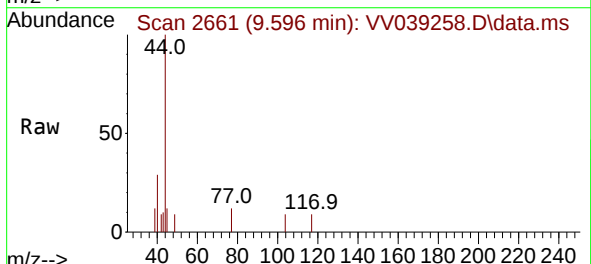
Instrument :
MSVOA_V
ClientSampleId :
MW15

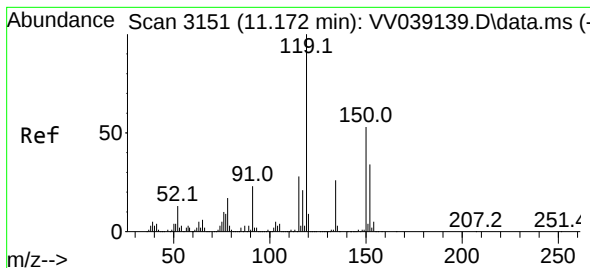
Tgt Ion:117 Resp: 749276
Ion Ratio Lower Upper
117 100
82 55.7 45.4 68.2
119 32.5 25.6 38.4



#70
Styrene
Concen: 1.562 ug/l
RT: 9.596 min Scan# 2661
Delta R.T. 0.112 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion:104 Resp: 20
Ion Ratio Lower Upper
104 100
78 490.0 39.8 59.6#
103 0.0 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: VV039258.D

Acq: 03 Oct 2025 18:26

Instrument :

MSVOA_V

ClientSampleId :

MW15

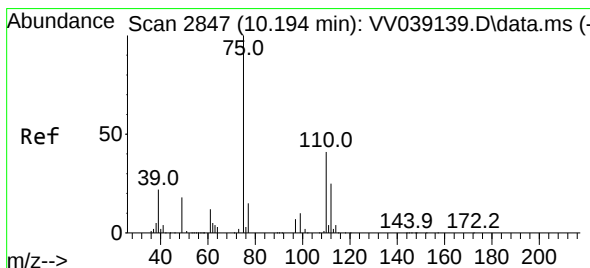
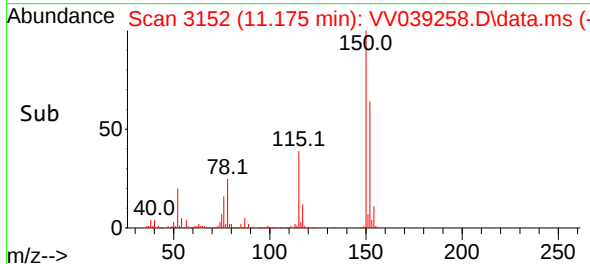
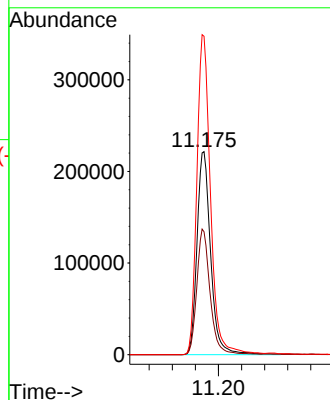
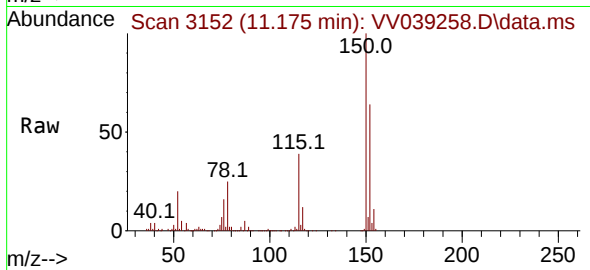
Tgt Ion:152 Resp: 364005

Ion Ratio Lower Upper

152 100

115 60.2 44.8 134.4

150 156.6 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.686 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039258.D

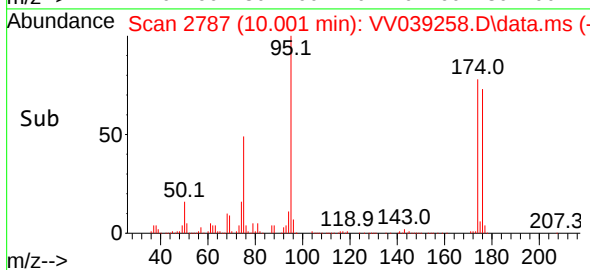
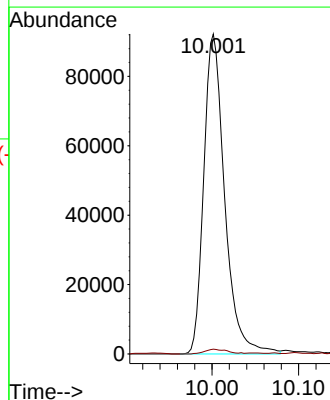
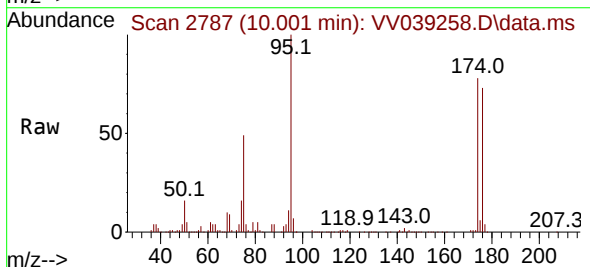
Acq: 03 Oct 2025 18:26

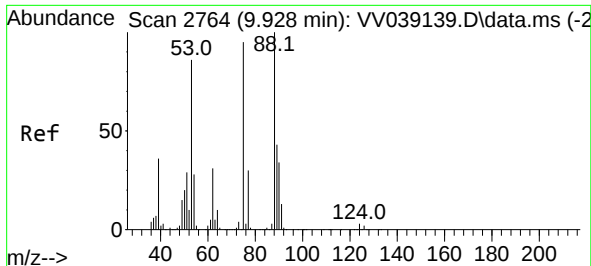
Tgt Ion: 75 Resp: 154864

Ion Ratio Lower Upper

75 100

77 1.6 11.3 33.8#

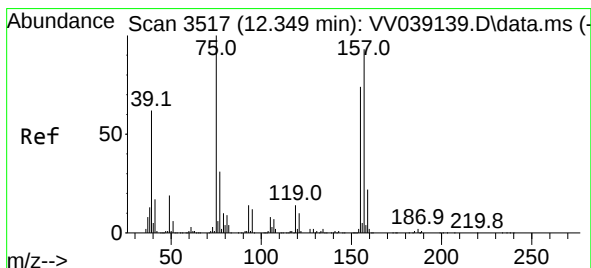
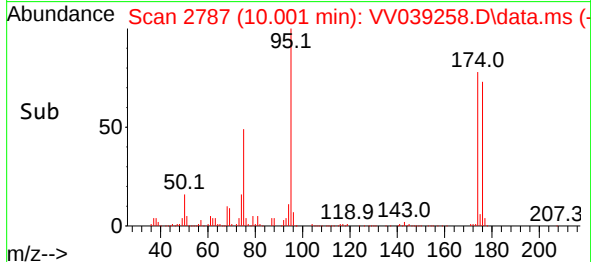
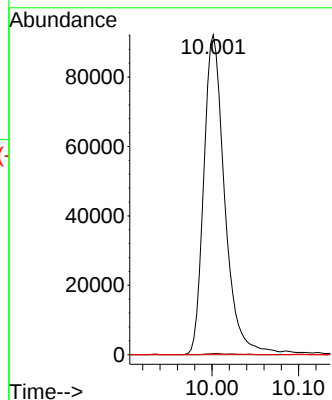
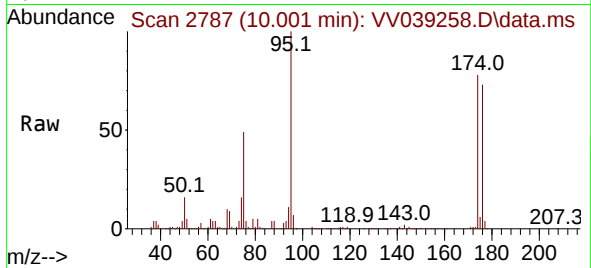




#81
trans-1,4-Dichloro-2-butene
Concen: 44.859 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Instrument :
MSVOA_V
ClientSampleId :
MW15

Tgt Ion: 75 Resp: 154864
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.188 min Scan# 3467
Delta R.T. -0.161 min
Lab File: VV039258.D
Acq: 03 Oct 2025 18:26

Tgt Ion: 75 Resp: 115
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

