

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039236.D
 Acq On : 29 Sep 2025 16:53
 Operator : SY/MD
 Sample : Q3231-16
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 30 01:28:50 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)

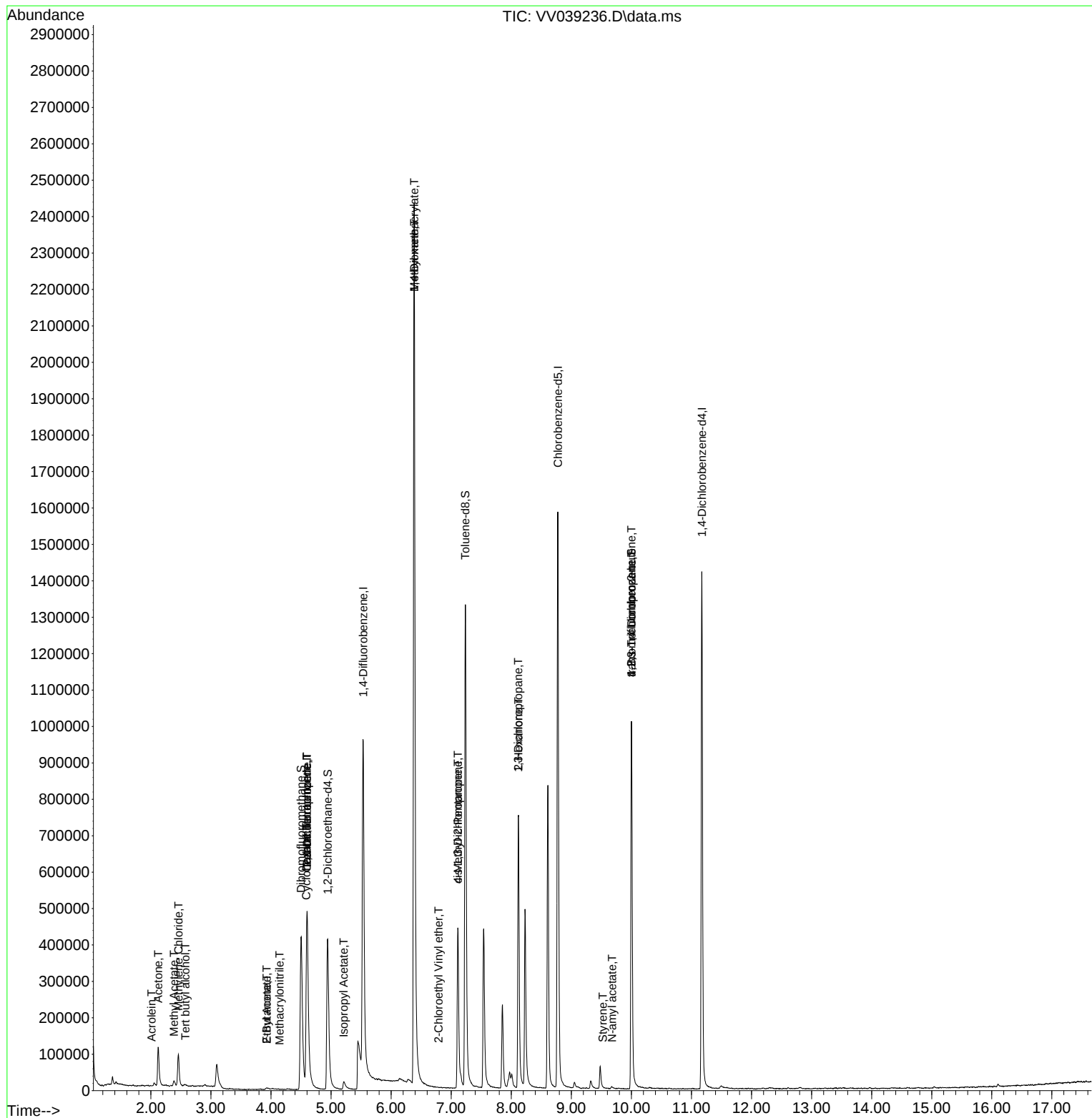
Internal Standards						
1) Pentafluorobenzene	4.600	168	421100	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	839716	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	896203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	377074	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	369582	60.641	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 121.280%#	
35) Dibromofluoromethane	4.500	113	351028	51.999	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 104.000%	
50) Toluene-d8	7.236	98	944338	47.630	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 95.260%	
62) 4-Bromofluorobenzene	10.001	95	347955	42.631	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 85.260%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.648	64	370	Below Cal	#	44
11) Tert butyl alcohol	2.574	59	1798	1.396	ug/l #	87
13) Acrolein	2.011	56	437	1.955	ug/l #	67
16) Acetone	2.124	43	135663	30.285	ug/l	97
18) Methyl Acetate	2.384	43	19386	2.147	ug/l #	86
20) Methylene Chloride	2.462	84	43965	4.805	ug/l	87
25) 2-Butanone	3.931	43	8854	1.814	ug/l	97
31) Cyclohexane	4.590	56	3988	0.367	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	34515	3.382	ug/l #	45
37) Ethyl Acetate	3.931	43	8854	0.715	ug/l #	71
38) Carbon Tetrachloride	4.596	117	44945	3.603	ug/l #	16
41) Methacrylonitrile	4.143	41	234	1.951	ug/l #	31
43) Isopropyl Acetate	5.211	43	31524	1.867	ug/l	97
48) Methyl methacrylate	6.384	41	222963	29.128	ug/l #	39
49) 1,4-Dioxane	6.384	88	411	3.327	ug/l #	1
51) 4-Methyl-2-Pentanone	7.111	43	158046	14.227	ug/l #	49
54) cis-1,3-Dichloropropene	7.111	75	82403	6.553	ug/l #	66
57) 1,3-Dichloropropane	8.117	76	7420	0.544	ug/l #	44
58) 2-Chloroethyl Vinyl ether	6.793	63	23	9.627	ug/l #	47
59) 2-Hexanone	8.120	43	100660	13.447	ug/l #	59
70) Styrene	9.526	104	20	1.562	ug/l #	1
74) N-amyl acetate	9.677	43	2563	0.235	ug/l #	49
76) 1,2,3-Trichloropropane	10.001	75	167375	19.495	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	167375	46.802	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.342	75	47	Below Cal	#	5

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

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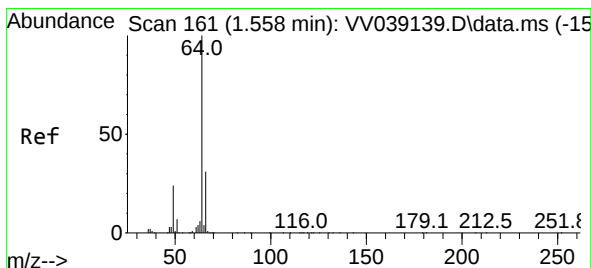
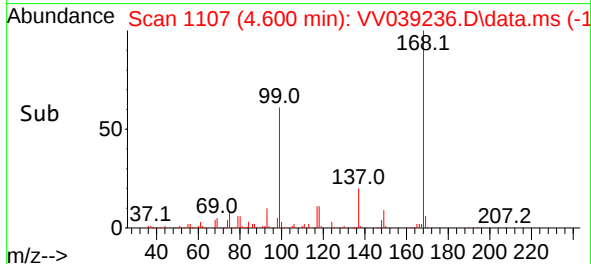
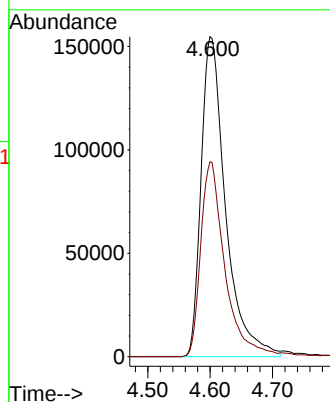
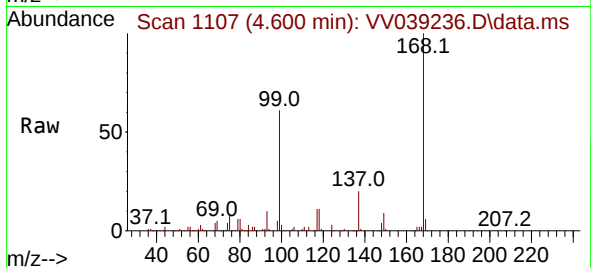




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

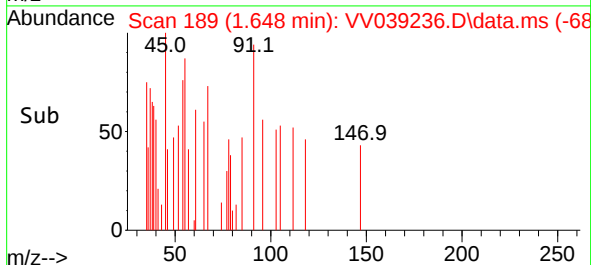
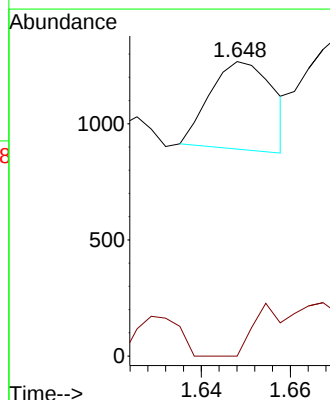
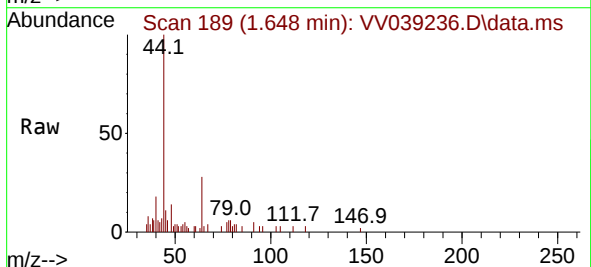
Instrument :
MSVOA_V
ClientSampleId :

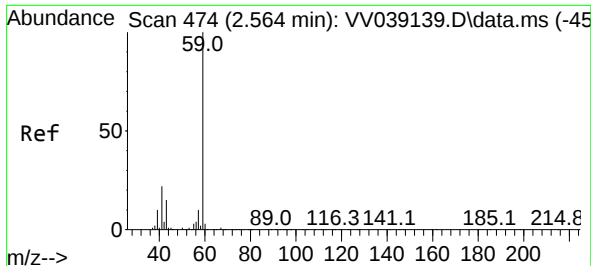
Tgt Ion:168 Resp: 421100
Ion Ratio Lower Upper
168 100
99 60.9 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.648 min Scan# 189
Delta R.T. 0.090 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 64 Resp: 370
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

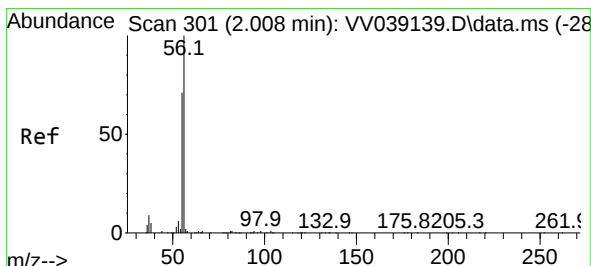
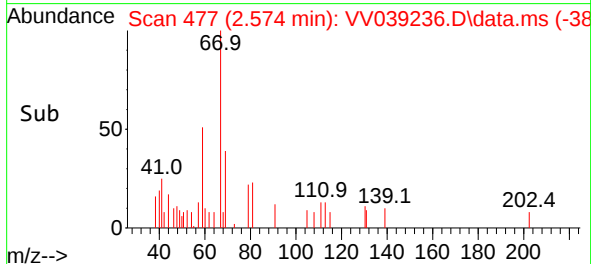
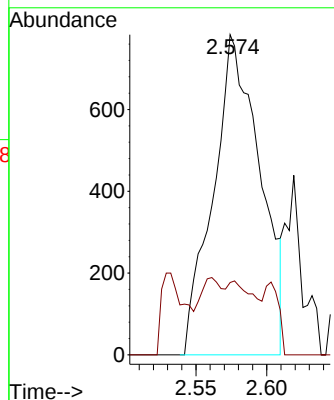
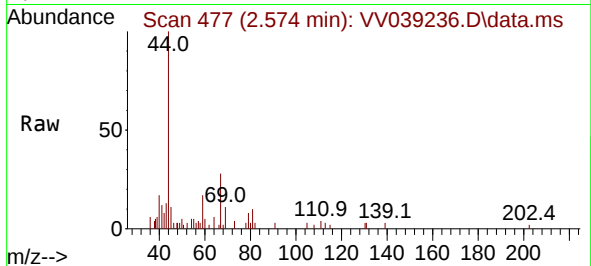




#11
Tert butyl alcohol
Concen: 1.396 ug/l
RT: 2.574 min Scan# 41
Delta R.T. 0.010 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

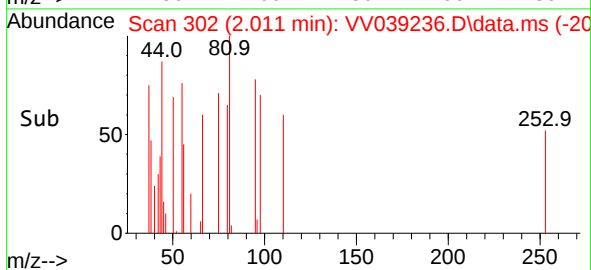
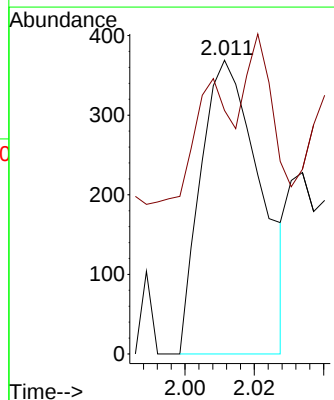
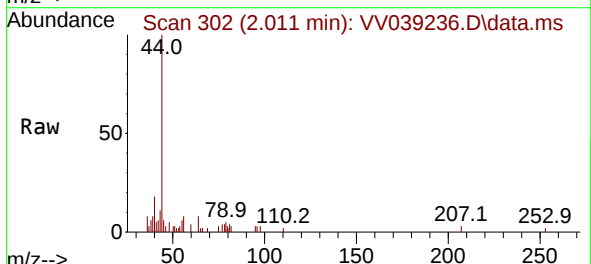
Instrument :
MSVOA_V
ClientSampleId :

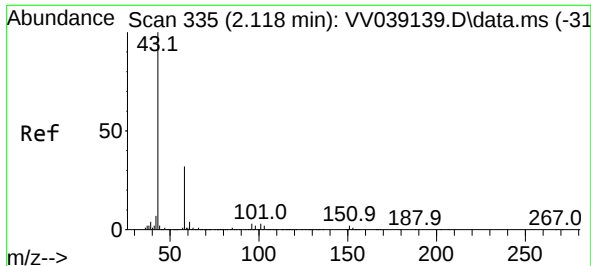
Tgt Ion: 59 Resp: 1798
Ion Ratio Lower Upper
59 100
57 5.1 7.8 11.8#



#13
Acrolein
Concen: 1.955 ug/l
RT: 2.011 min Scan# 302
Delta R.T. 0.003 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 56 Resp: 437
Ion Ratio Lower Upper
56 100
55 43.5 56.2 84.4#

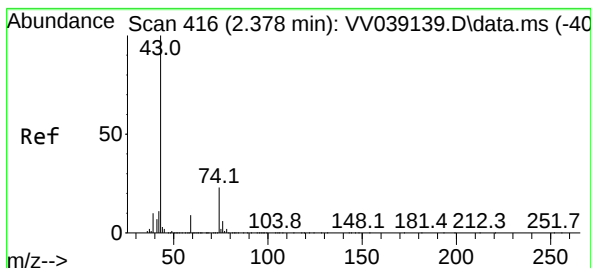
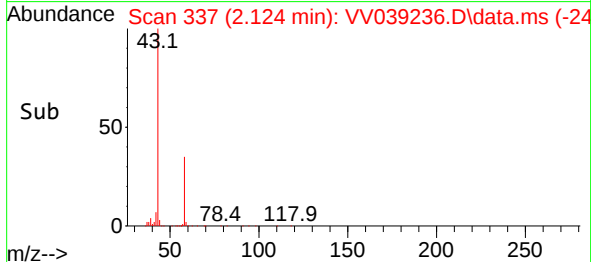
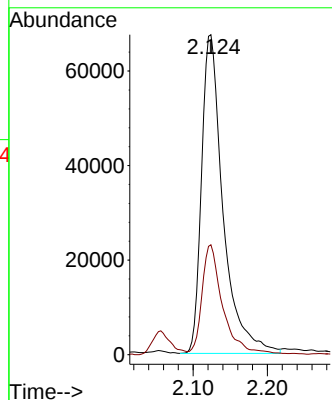
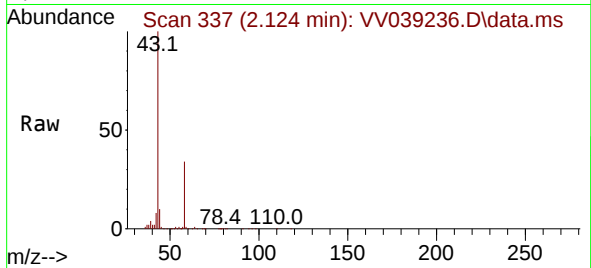




#16
Acetone
Concen: 30.285 ug/l
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

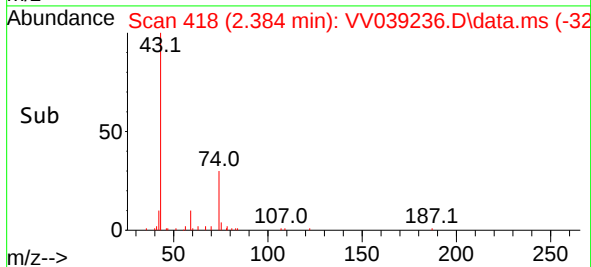
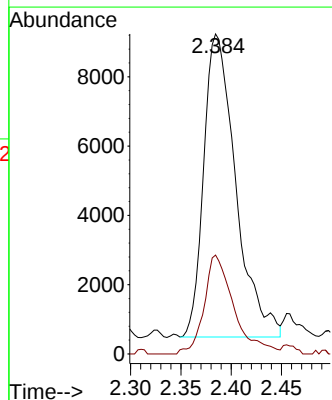
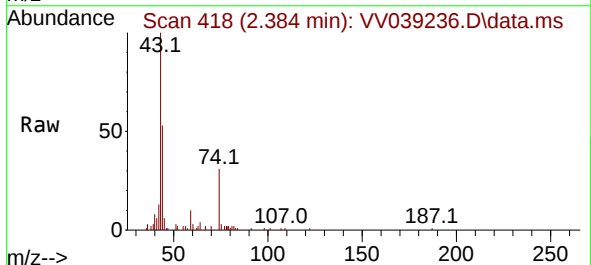
Instrument :
MSVOA_V
ClientSampleId :

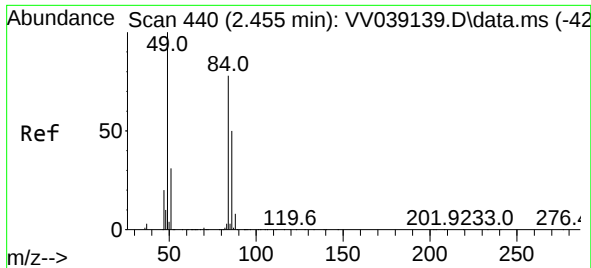
Tgt Ion: 43 Resp: 135663
Ion Ratio Lower Upper
43 100
58 34.0 25.8 38.6



#18
Methyl Acetate
Concen: 2.147 ug/l
RT: 2.384 min Scan# 418
Delta R.T. 0.006 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

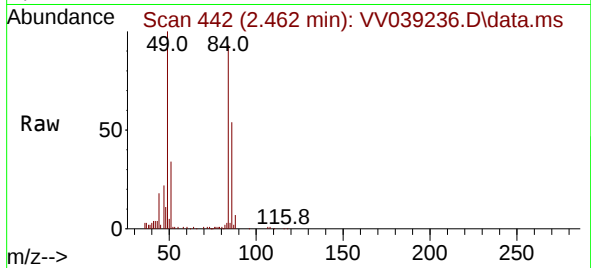
Tgt Ion: 43 Resp: 19386
Ion Ratio Lower Upper
43 100
74 30.2 18.6 27.8#



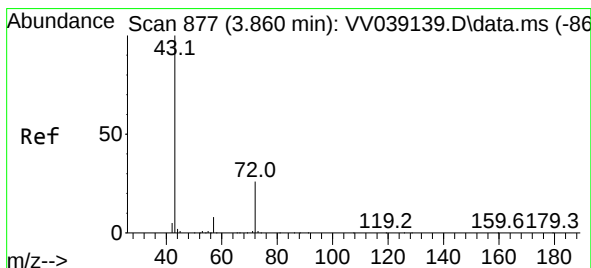
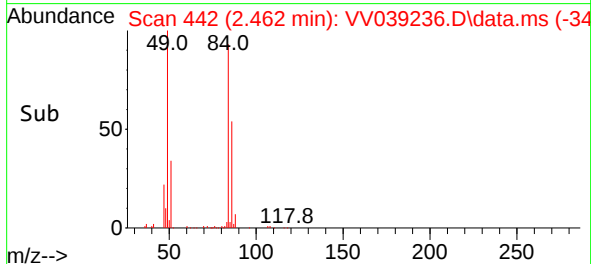
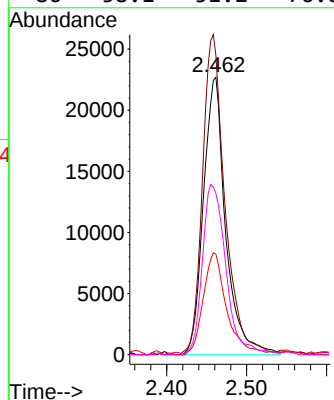


#20
Methylene Chloride
Concen: 4.805 ug/l
RT: 2.462 min Scan# 440
Delta R.T. 0.007 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Instrument :
MSVOA_V
ClientSampleId :

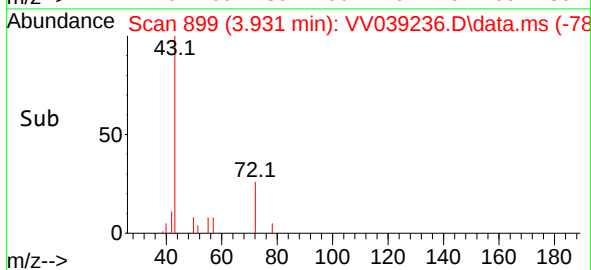
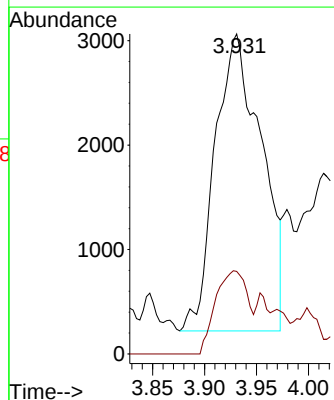
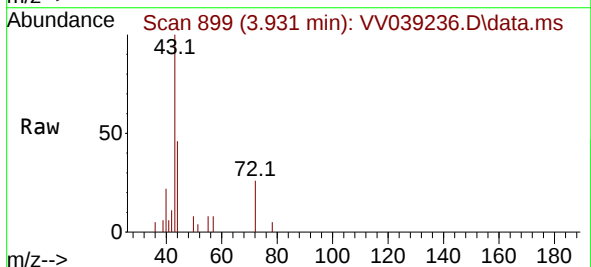


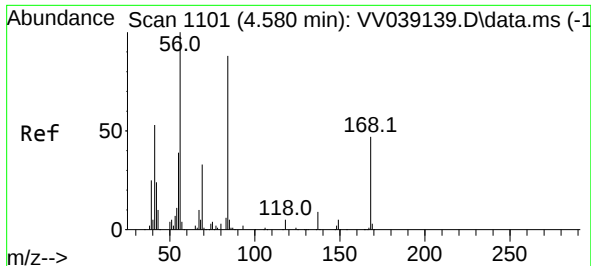
Tgt Ion:	84	Resp:	43965
Ion	Ratio	Lower	Upper
84	100		
49	107.9	102.8	154.2
51	35.6	31.9	47.9
86	58.1	51.2	76.8



#25
2-Butanone
Concen: 1.814 ug/l
RT: 3.931 min Scan# 899
Delta R.T. 0.071 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

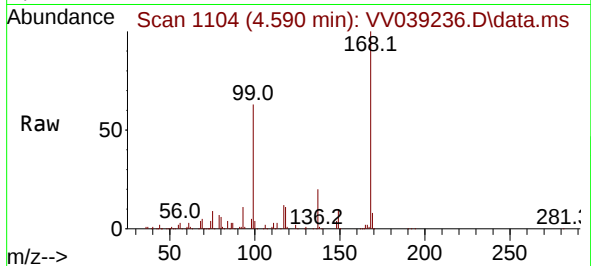
Tgt Ion:	43	Resp:	8854
Ion	Ratio	Lower	Upper
43	100		
72	27.8	21.0	31.6



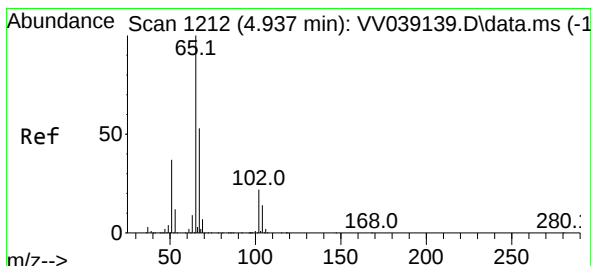
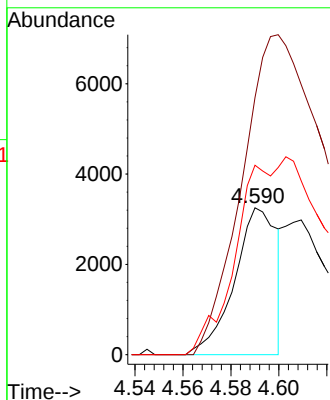
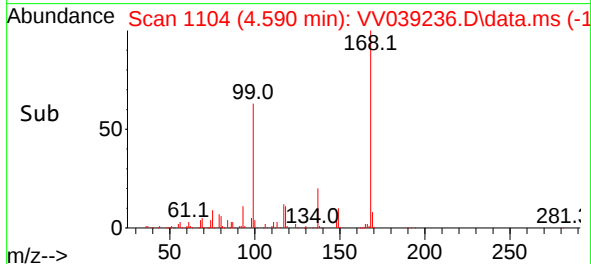


#31
Cyclohexane
Concen: 0.367 ug/l
RT: 4.590 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Instrument :
MSVOA_V
ClientSampleId :

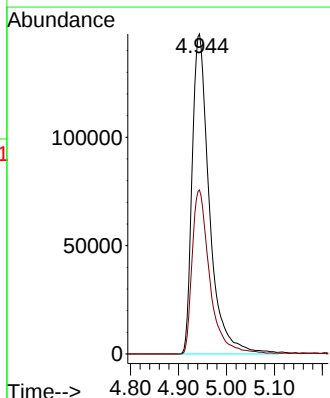
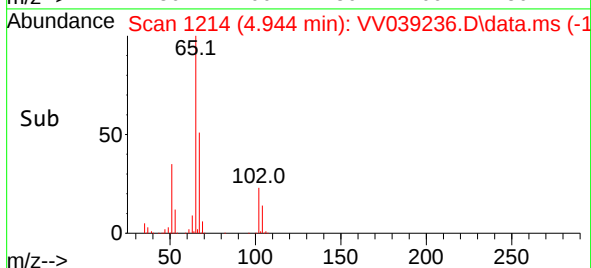
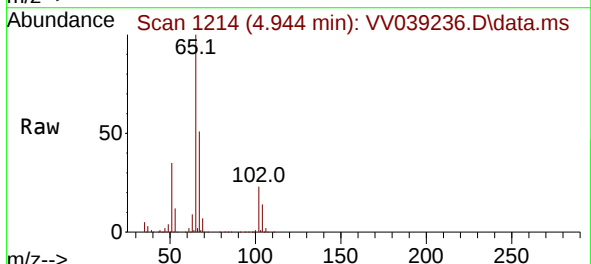


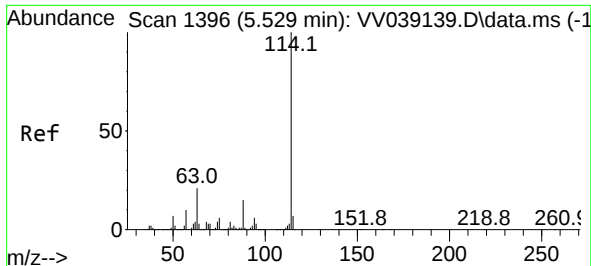
Tgt Ion: 56 Resp: 3988
Ion Ratio Lower Upper
56 100
69 175.1 26.2 39.2#
84 129.0 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 60.641 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 65 Resp: 369582
Ion Ratio Lower Upper
65 100
67 52.3 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

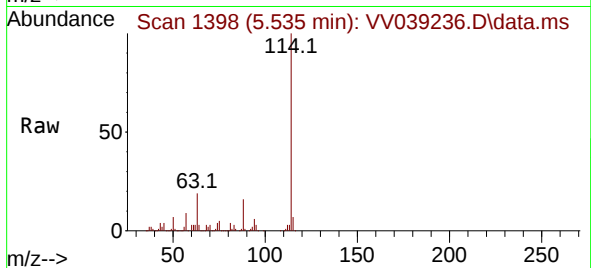
Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

Instrument :

MSVOA_V

ClientSampleId :



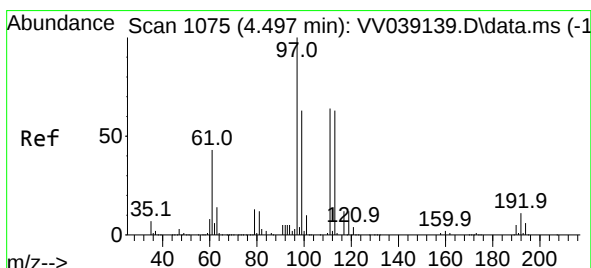
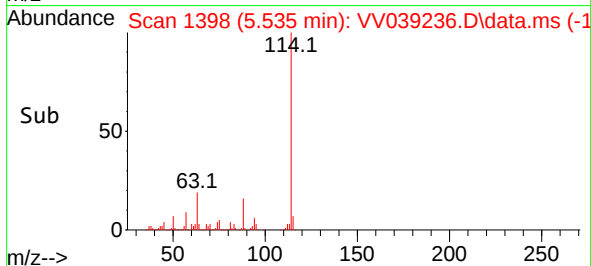
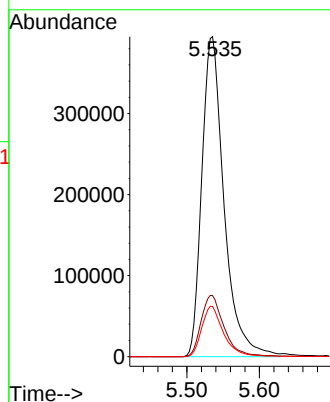
Tgt Ion:114 Resp: 839716

Ion Ratio Lower Upper

114 100

63 19.1 0.0 42.6

88 15.7 0.0 30.8



#35

Dibromofluoromethane

Concen: 51.999 ug/l

RT: 4.500 min Scan# 1076

Delta R.T. 0.003 min

Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

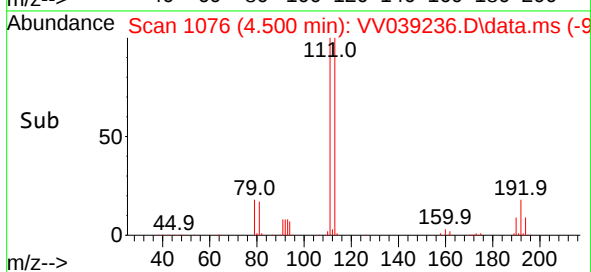
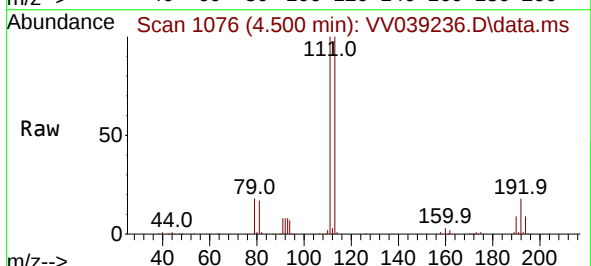
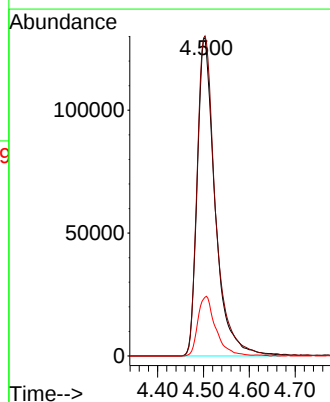
Tgt Ion:113 Resp: 351028

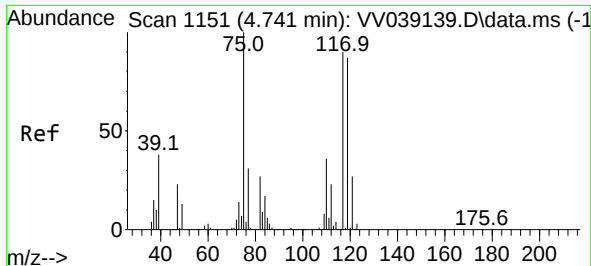
Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

192 18.7 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.382 ug/l

RT: 4.600 min Scan# 1151

Delta R.T. -0.141 min

Lab File: VV039236.D

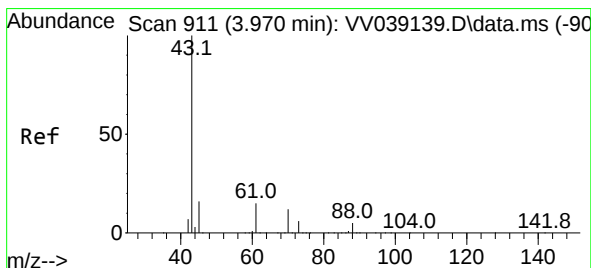
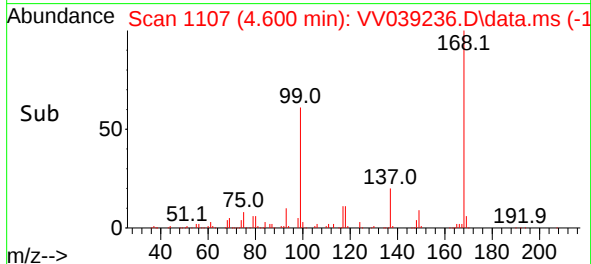
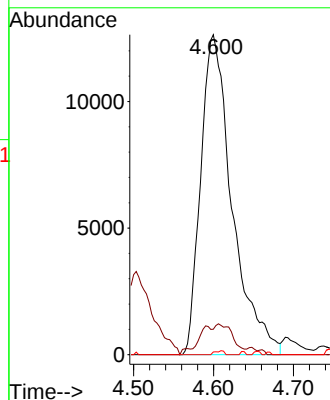
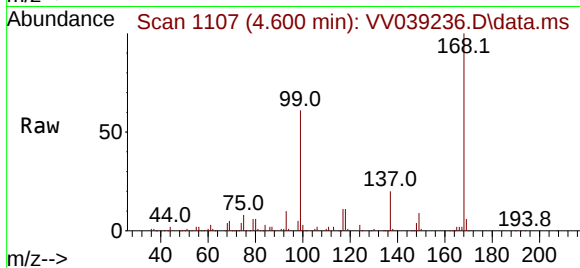
Acq: 29 Sep 2025 16:53

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	34515
Ion	Ratio	Lower	Upper
75	100		
110	3.9	18.1	54.1#
77	0.4	24.8	37.2#



#37

Ethyl Acetate

Concen: 0.715 ug/l

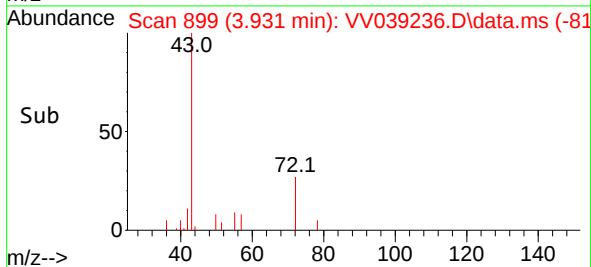
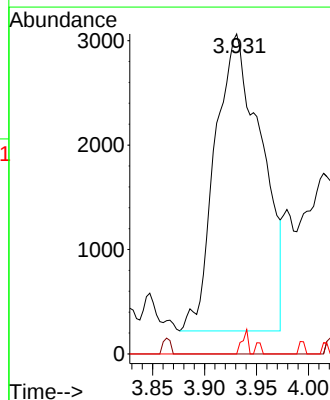
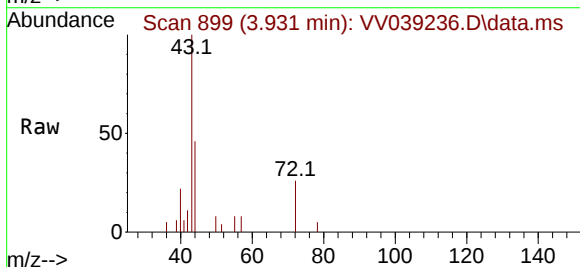
RT: 3.931 min Scan# 899

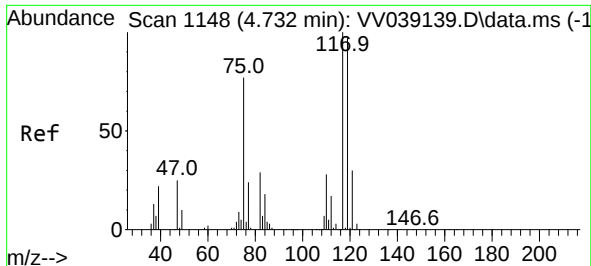
Delta R.T. -0.039 min

Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

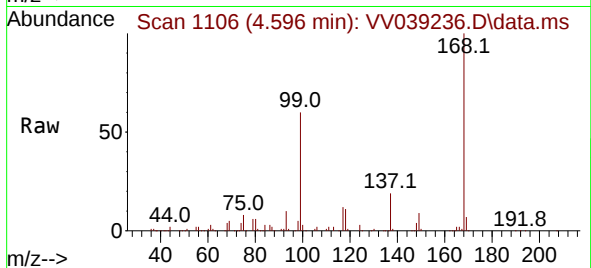
Tgt Ion:	43	Resp:	8854
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	1.0	8.0	12.0#



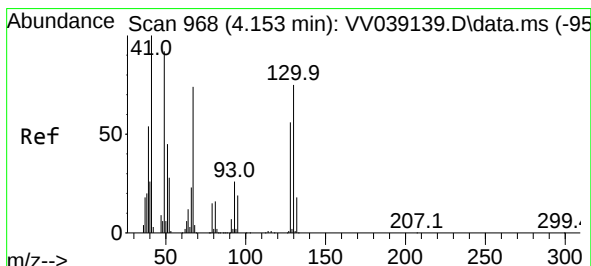
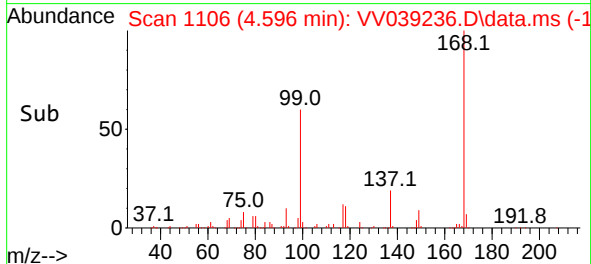
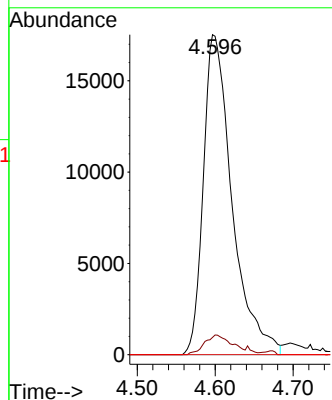


#38
Carbon Tetrachloride
Concen: 3.603 ug/l
RT: 4.596 min Scan# 1148
Delta R.T. -0.136 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Instrument :
MSVOA_V
ClientSampleId :

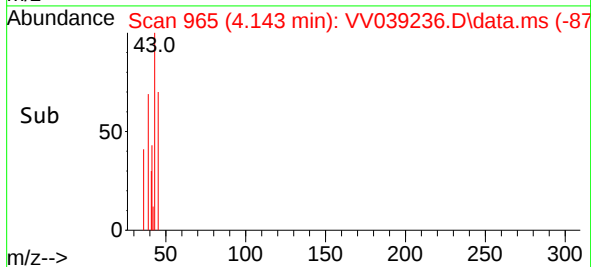
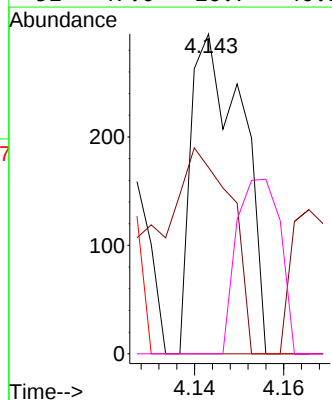
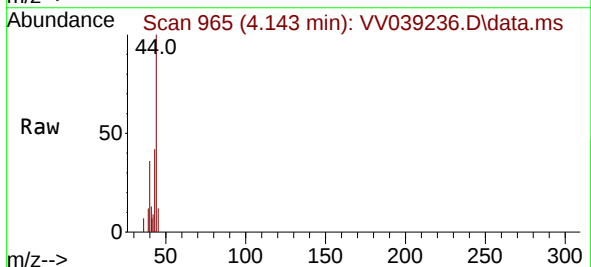


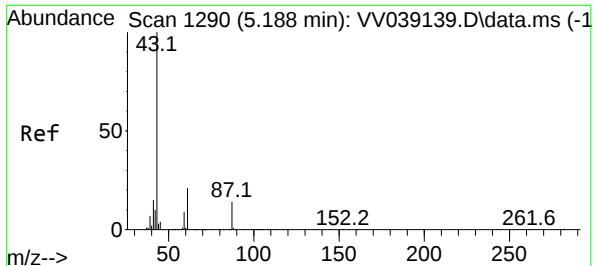
Tgt Ion:117 Resp: 44945
Ion Ratio Lower Upper
117 100
119 5.4 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.951 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.010 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 41 Resp: 234
Ion Ratio Lower Upper
41 100
39 93.6 42.2 63.2#
67 0.0 67.9 101.9#
52 47.0 26.7 40.1#





#43

Isopropyl Acetate

Concen: 1.867 ug/l

RT: 5.211 min Scan# 11

Delta R.T. 0.022 min

Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

Instrument :

MSVOA_V

ClientSampleId :

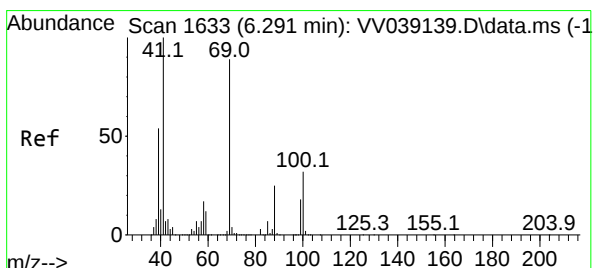
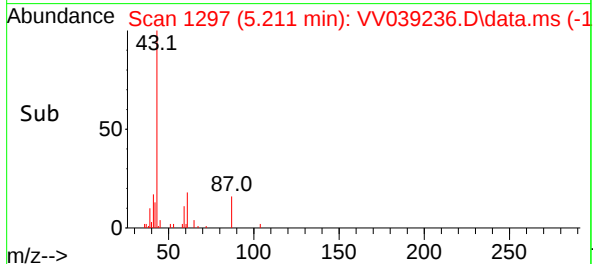
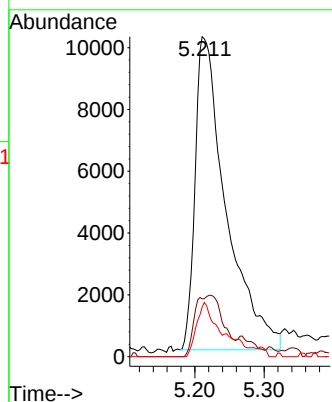
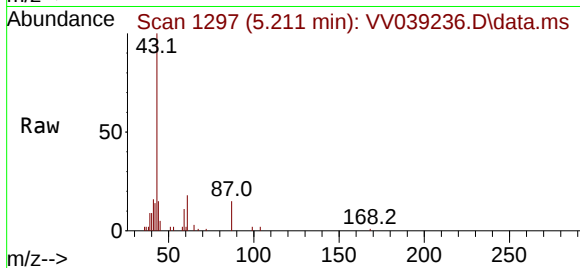
Tgt Ion: 43 Resp: 31524

Ion Ratio Lower Upper

43 100

61 18.0 15.9 23.9

87 14.6 11.0 16.6



#48

Methyl methacrylate

Concen: 29.128 ug/l

RT: 6.384 min Scan# 1662

Delta R.T. 0.093 min

Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

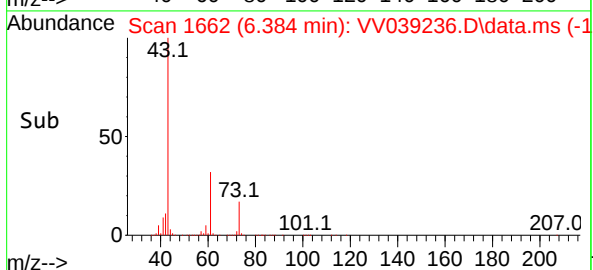
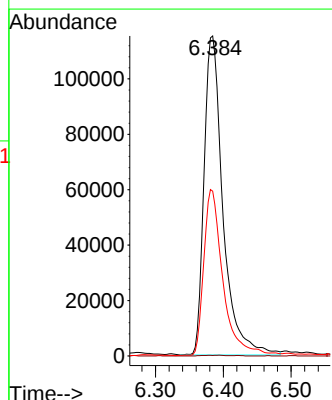
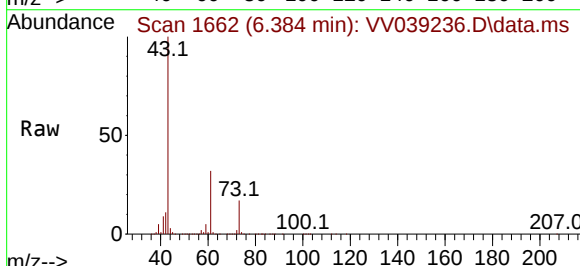
Tgt Ion: 41 Resp: 222963

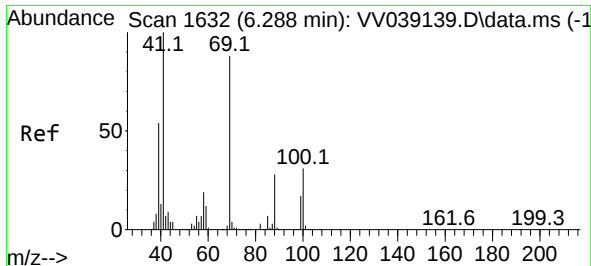
Ion Ratio Lower Upper

41 100

69 0.2 72.4 108.6#

39 52.5 42.5 63.7





#49

1,4-Dioxane

Concen: 3.327 ug/l

RT: 6.384 min Scan# 1

Delta R.T. 0.096 min

Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

Instrument :

MSVOA_V

ClientSampleId :

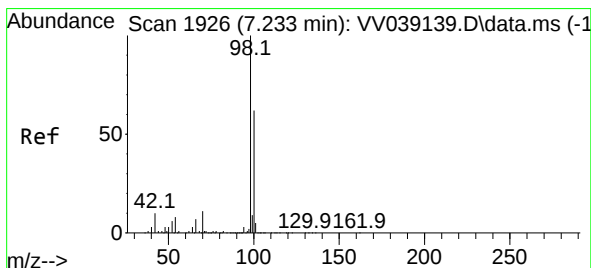
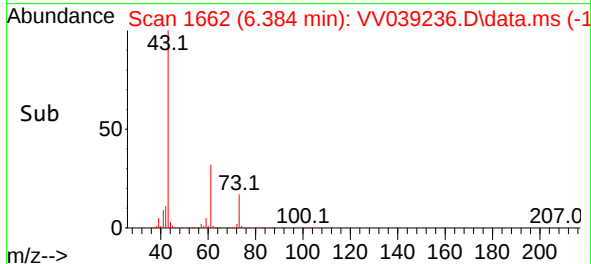
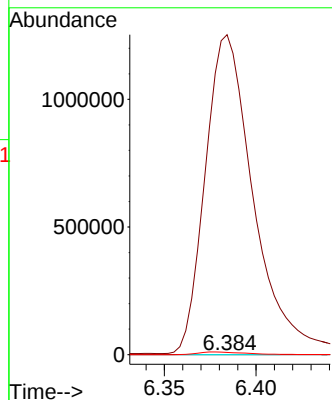
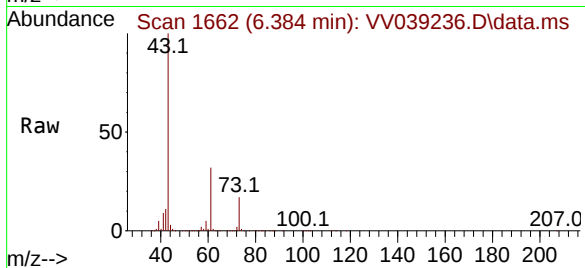
Tgt Ion: 88 Resp: 411

Ion Ratio Lower Upper

88 100

43 570973.7 25.1 37.7#

58 4707.8 53.6 80.4#



#50

Toluene-d8

Concen: 47.630 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039236.D

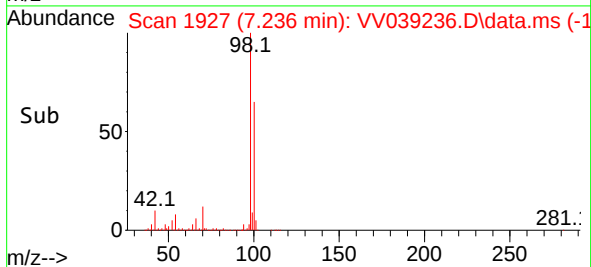
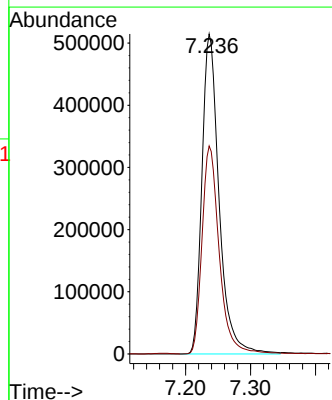
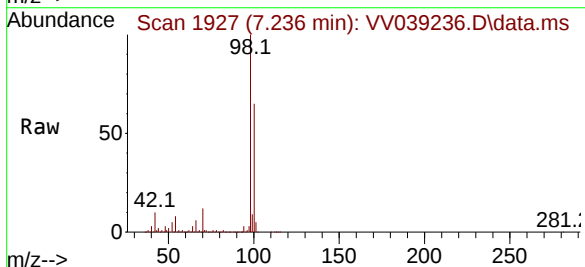
Acq: 29 Sep 2025 16:53

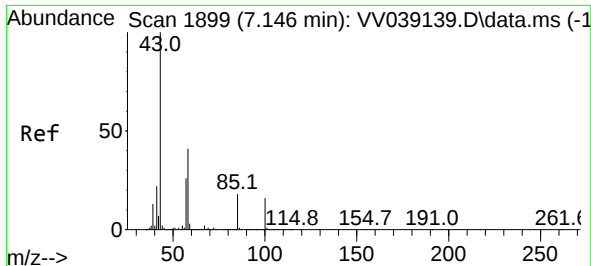
Tgt Ion: 98 Resp: 944338

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2

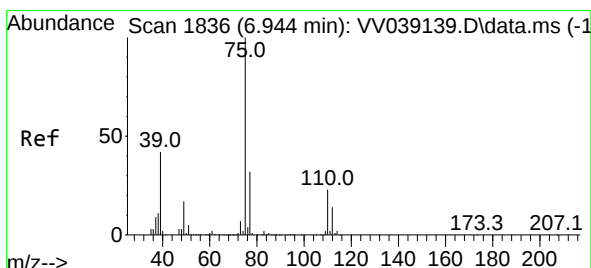
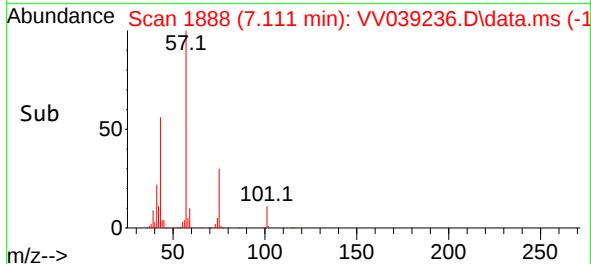
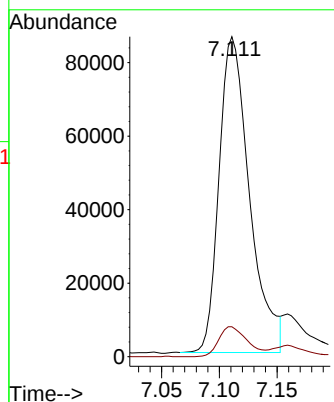
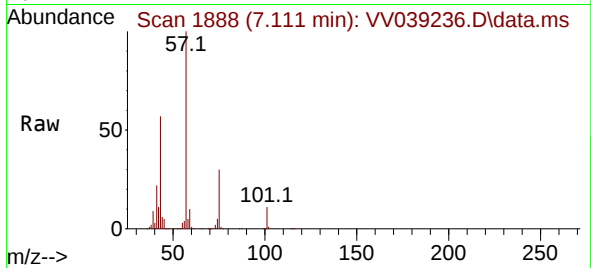




#51
4-Methyl-2-Pentanone
Concen: 14.227 ug/l
RT: 7.111 min Scan# 1888
Delta R.T. -0.035 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

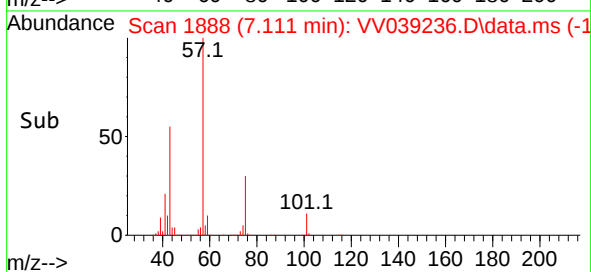
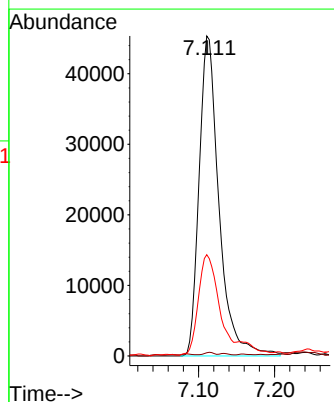
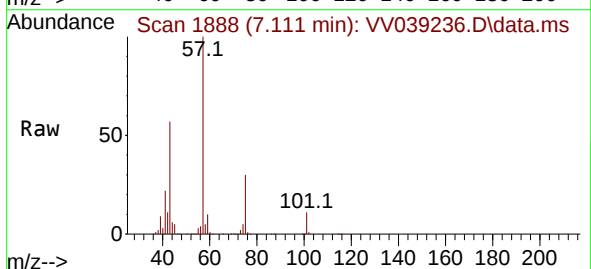
Instrument :
MSVOA_V
ClientSampleId :

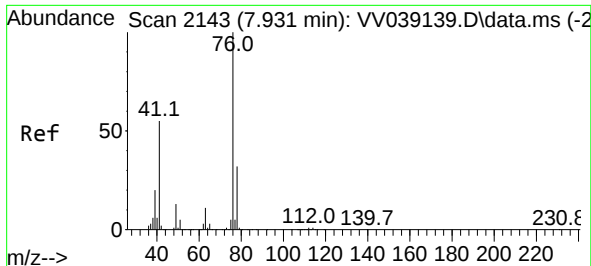
Tgt Ion: 43 Resp: 158046
Ion Ratio Lower Upper
43 100
58 8.9 32.3 48.5#



#54
cis-1,3-Dichloropropene
Concen: 6.553 ug/l
RT: 7.111 min Scan# 1888
Delta R.T. 0.167 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 75 Resp: 82403
Ion Ratio Lower Upper
75 100
77 0.6 25.5 38.3#
39 31.4 33.8 50.6#

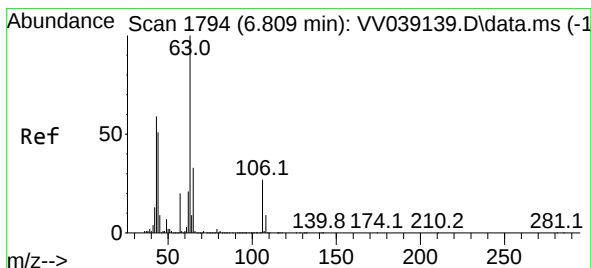
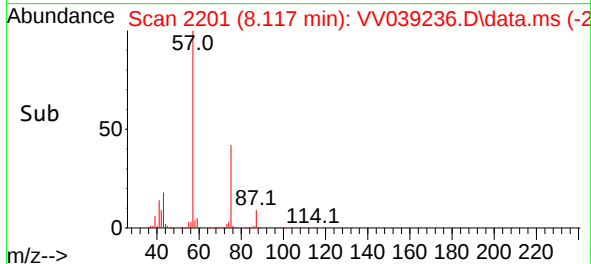
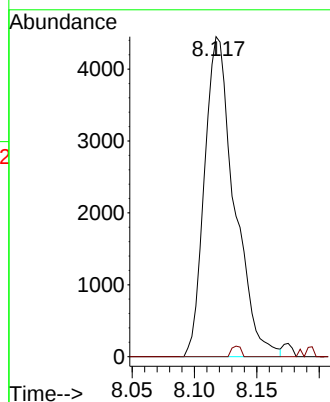
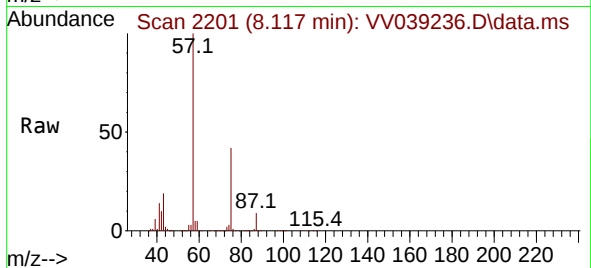




#57
1,3-Dichloropropane
Concen: 0.544 ug/l
RT: 8.117 min Scan# 2143
Delta R.T. 0.186 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

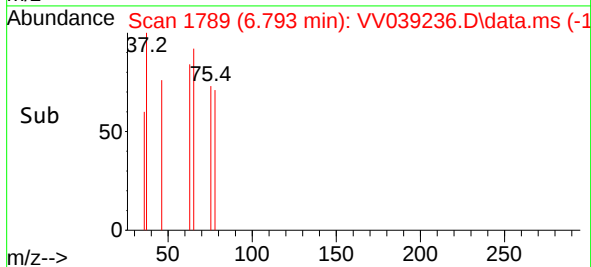
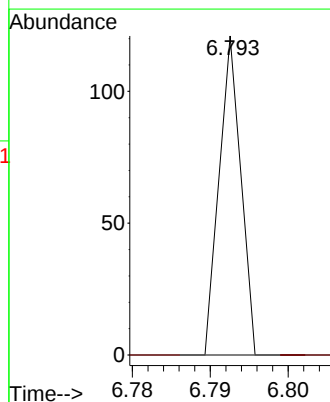
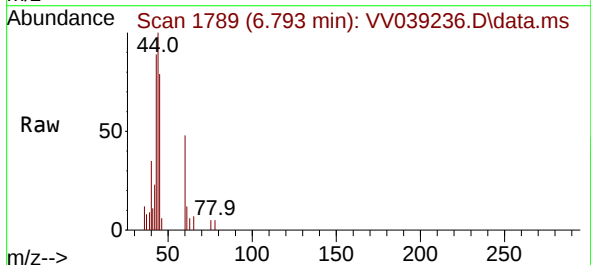
Instrument :
MSVOA_V
ClientSampleId :

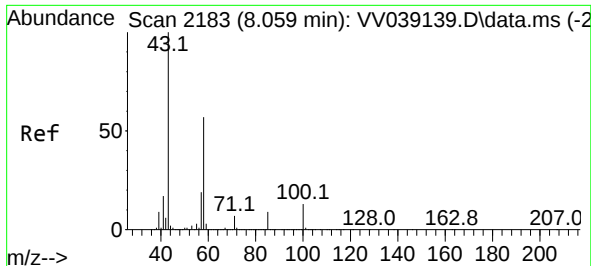
Tgt Ion: 76 Resp: 7420
Ion Ratio Lower Upper
76 100
78 1.0 26.1 39.1#



#58
2-Chloroethyl Vinyl ether
Concen: 9.627 ug/l
RT: 6.793 min Scan# 1789
Delta R.T. -0.016 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 63 Resp: 23
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#

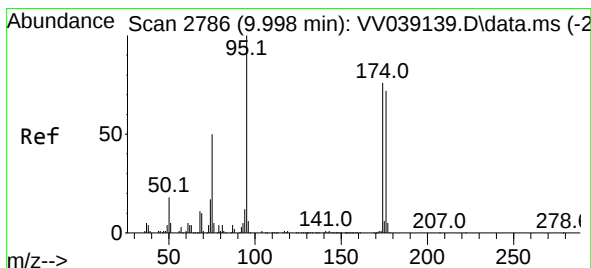
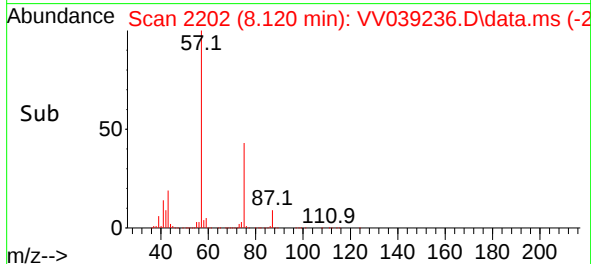
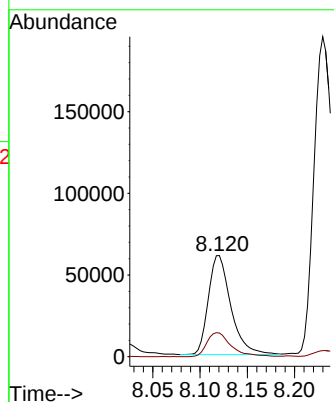
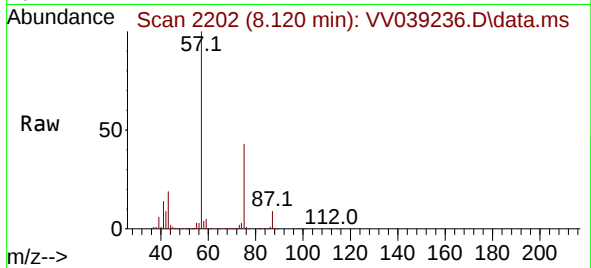




#59
2-Hexanone
Concen: 13.447 ug/l
RT: 8.120 min Scan# 2183
Delta R.T. 0.061 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

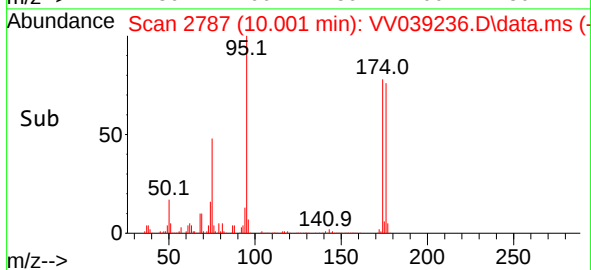
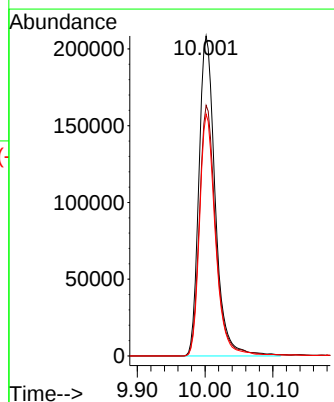
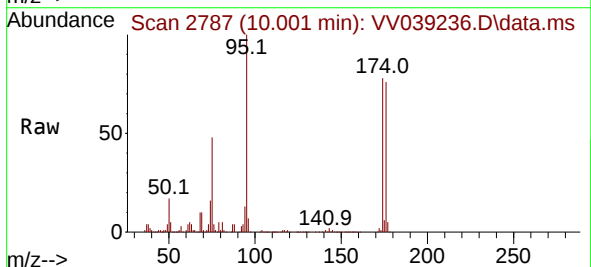
Instrument :
MSVOA_V
ClientSampleId :

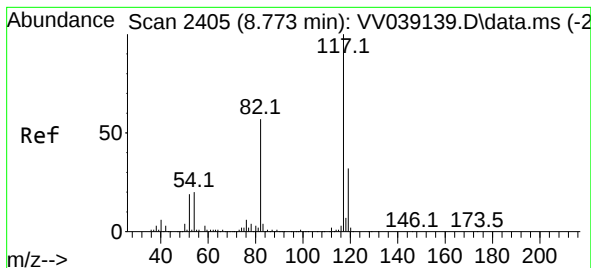
Tgt Ion: 43 Resp: 100660
Ion Ratio Lower Upper
43 100
58 26.2 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 42.631 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 95 Resp: 347955
Ion Ratio Lower Upper
95 100
174 78.5 0.0 150.4
176 73.7 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: VV039236.D

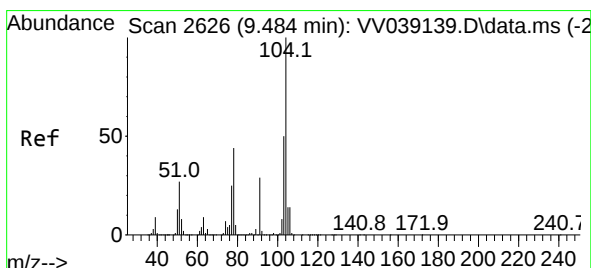
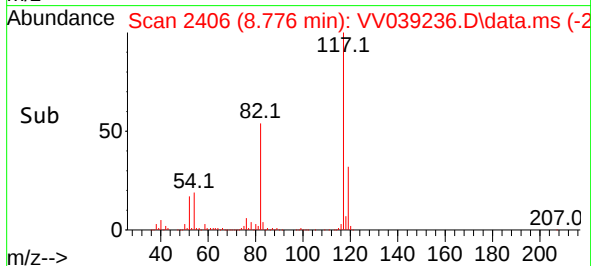
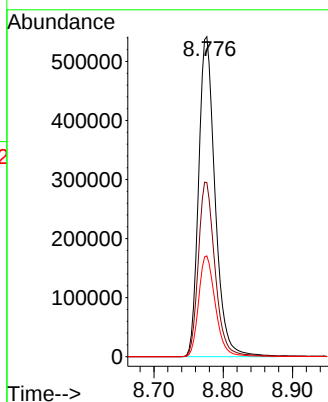
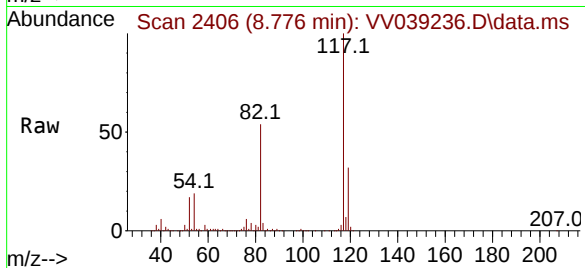
Acq: 29 Sep 2025 16:53

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:117	Resp:	896203
Ion	Ratio	Lower Upper
117	100	
82	54.4	45.4 68.2
119	31.5	25.6 38.4



#70

Styrene

Concen: 1.562 ug/l

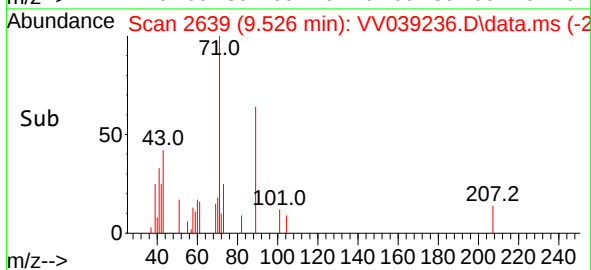
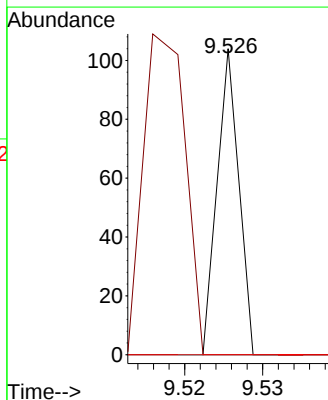
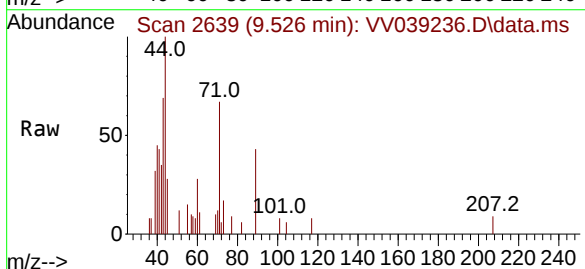
RT: 9.526 min Scan# 2639

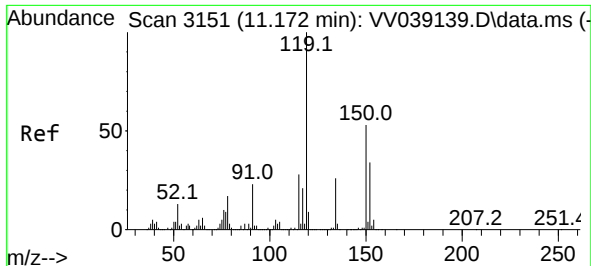
Delta R.T. 0.042 min

Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

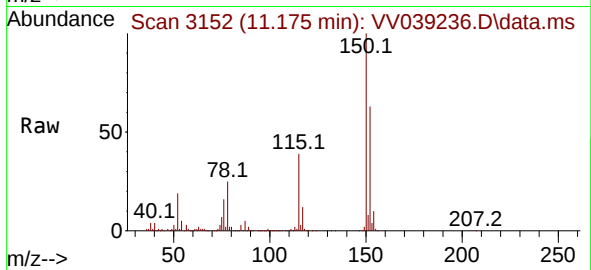
Tgt Ion:104	Resp:	20
Ion	Ratio	Lower Upper
104	100	
78	205.0	39.8 59.6#
103	0.0	43.4 65.2#



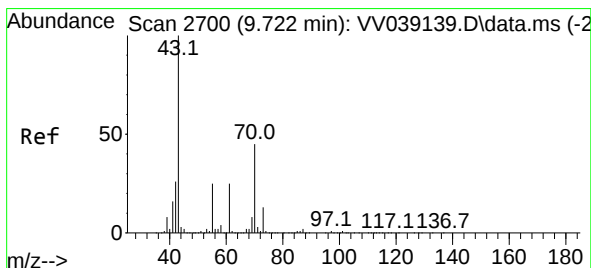
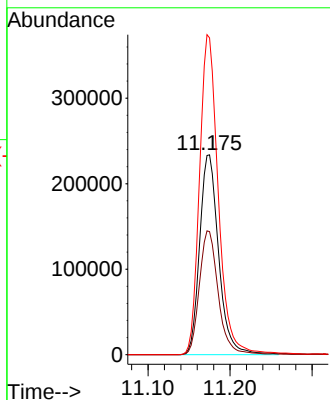
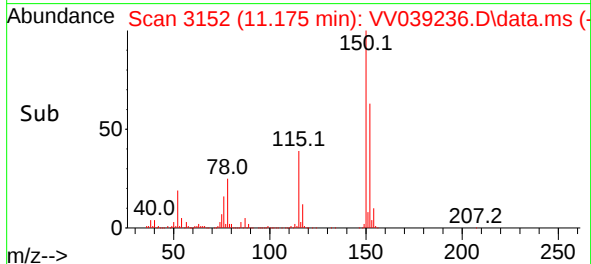


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3151
Delta R.T. 0.003 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Instrument :
MSVOA_V
ClientSampleId :

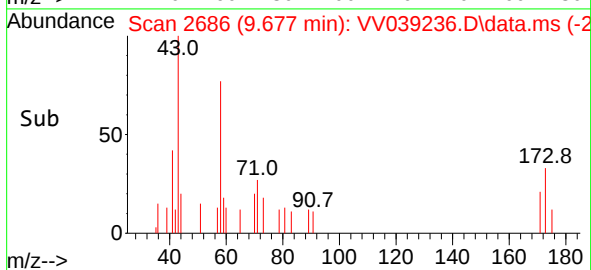
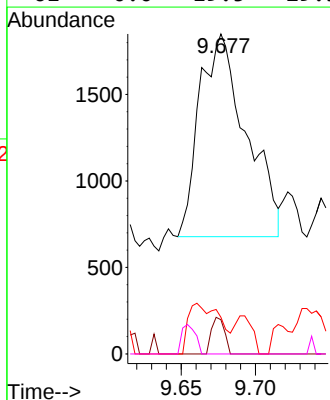
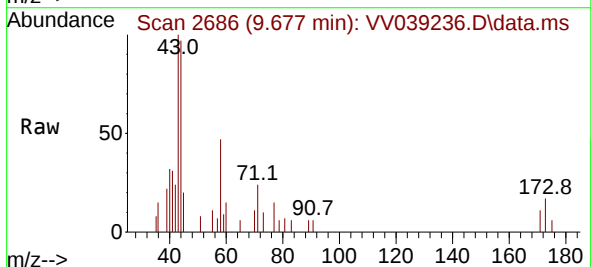


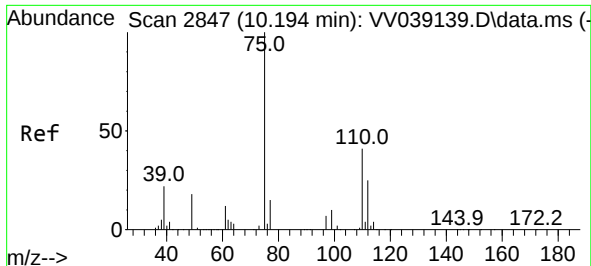
Tgt Ion:152 Resp: 377074
Ion Ratio Lower Upper
152 100
115 61.3 44.8 134.4
150 158.6 0.0 353.8



#74
N-ethyl acetate
Concen: 0.235 ug/l
RT: 9.677 min Scan# 2686
Delta R.T. -0.045 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 43 Resp: 2563
Ion Ratio Lower Upper
43 100
70 5.0 35.4 53.0#
55 6.9 20.6 30.8#
61 0.0 19.5 29.3#

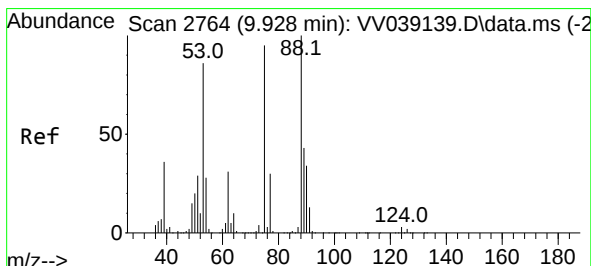
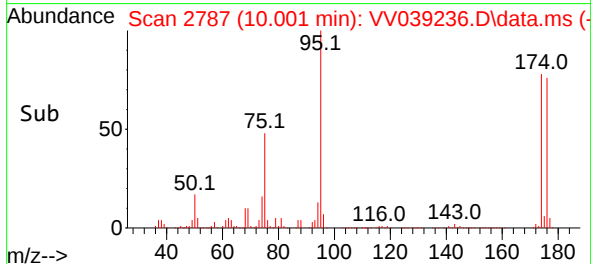
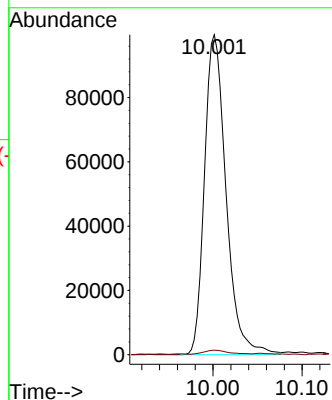
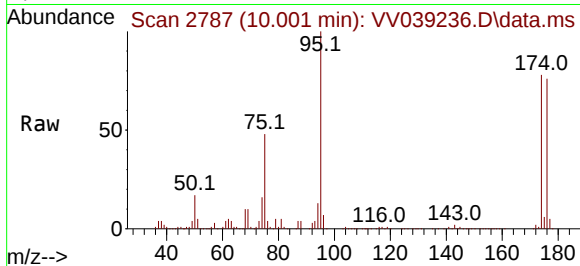




#76
1,2,3-Trichloropropane
Concen: 19.495 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

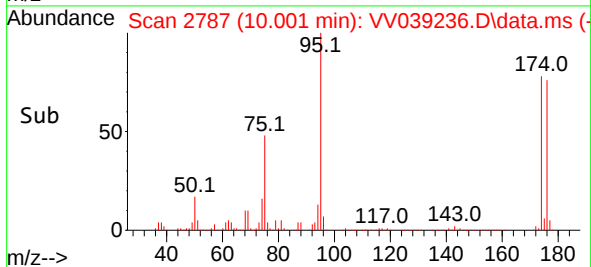
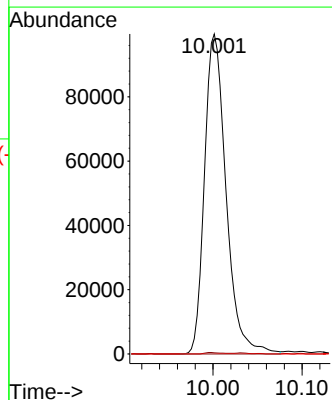
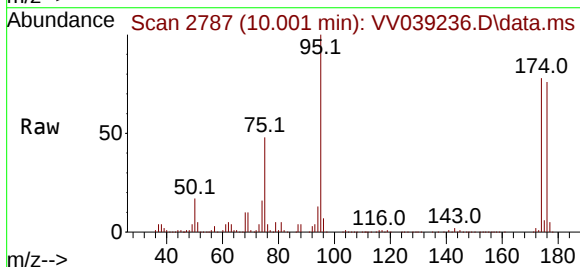
Instrument :
MSVOA_V
ClientSampleId :

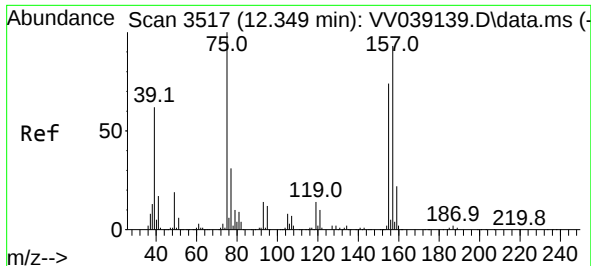
Tgt Ion: 75 Resp: 167375
Ion Ratio Lower Upper
75 100
77 1.6 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.802 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039236.D
Acq: 29 Sep 2025 16:53

Tgt Ion: 75 Resp: 167375
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.342 min Scan# 31

Delta R.T. -0.007 min

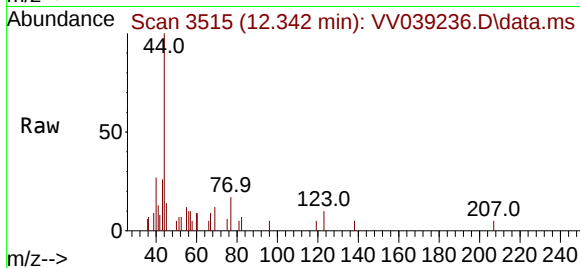
Lab File: VV039236.D

Acq: 29 Sep 2025 16:53

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	75	Resp:	47
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

