

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039187.D
 Acq On : 25 Sep 2025 17:25
 Operator : SY/MD
 Sample : Q3195-23
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:34:27 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)

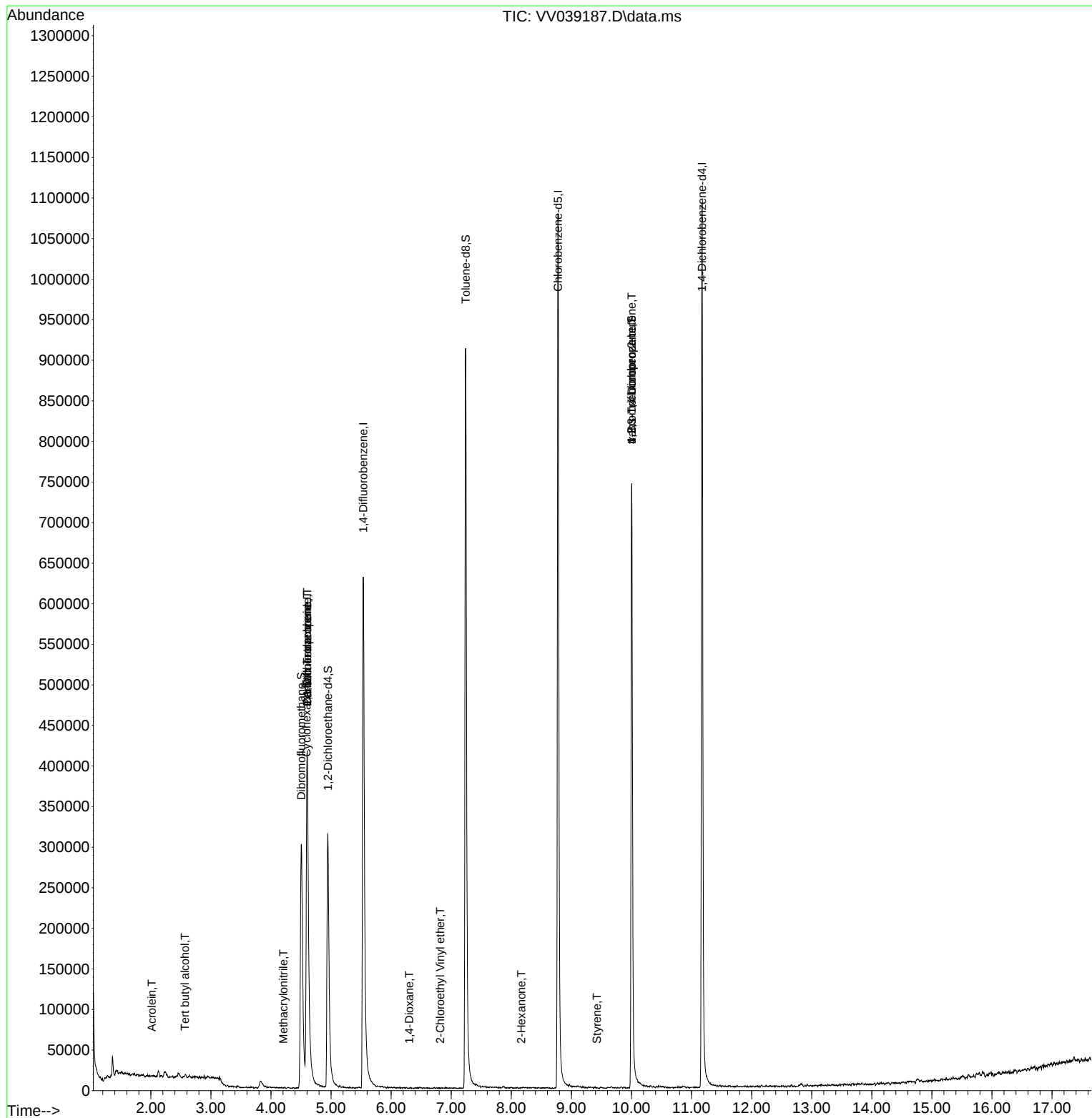
Internal Standards						
1) Pentafluorobenzene	4.603	168	360957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	632244	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	624309	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	293380	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.947	65	279642	53.529	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 107.060%			
35) Dibromofluoromethane	4.506	113	257560	50.674	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 101.340%			
50) Toluene-d8	7.239	98	676812	45.338	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.680%			
62) 4-Bromofluorobenzene	10.001	95	268424	43.678	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.360%			
Target Compounds						
					Qvalue	
6) Chloroethane	1.593	64	798	Below Cal	#	51
11) Tert butyl alcohol	2.568	59	737	0.667	ug/l	98
13) Acrolein	2.015	56	193	1.007	ug/l #	1
16) Acetone	2.127	43	7267	Below Cal		93
20) Methylene Chloride	2.455	84	1823	Below Cal	#	78
31) Cyclohexane	4.593	56	3088	0.331	ug/l #	4
36) 1,1-Dichloropropene	4.603	75	29220	3.802	ug/l #	48
38) Carbon Tetrachloride	4.603	117	38224	4.070	ug/l #	17
41) Methacrylonitrile	4.204	41	203	1.957	ug/l #	40
49) 1,4-Dioxane	6.301	88	72	0.774	ug/l #	25
58) 2-Chloroethyl Vinyl ether	6.815	63	156	9.657	ug/l #	47
59) 2-Hexanone	8.165	43	146	2.347	ug/l	92
70) Styrene	9.426	104	42	1.564	ug/l #	26
76) 1,2,3-Trichloropropane	10.001	75	126622	18.956	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	126622	45.507	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.374	75	21	Below Cal	#	5

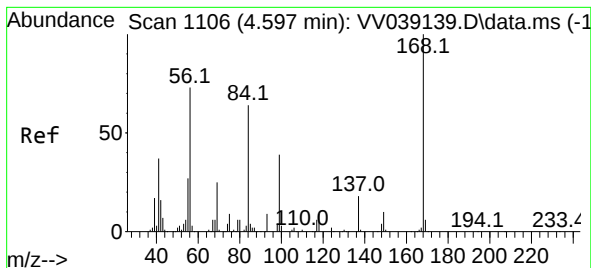
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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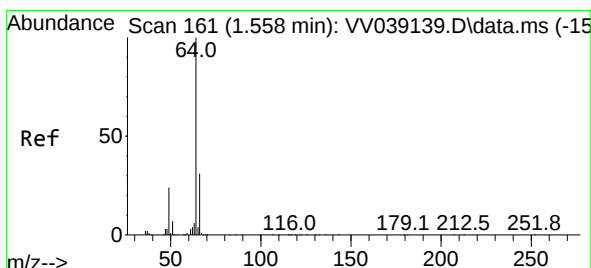
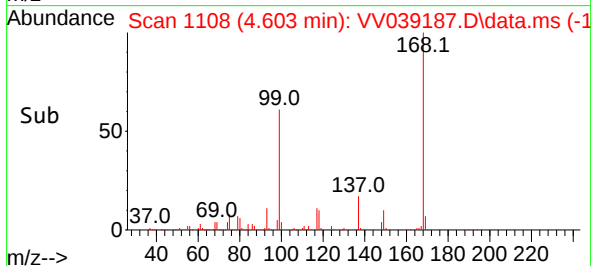
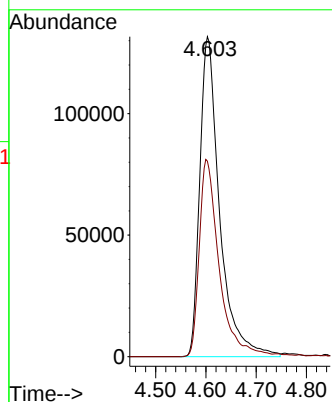
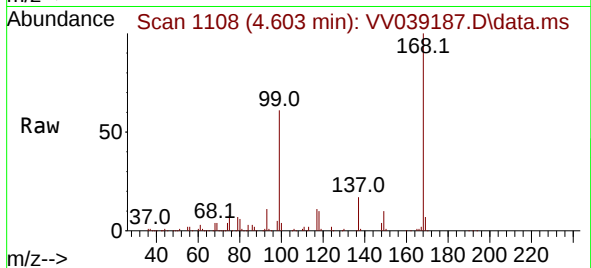




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

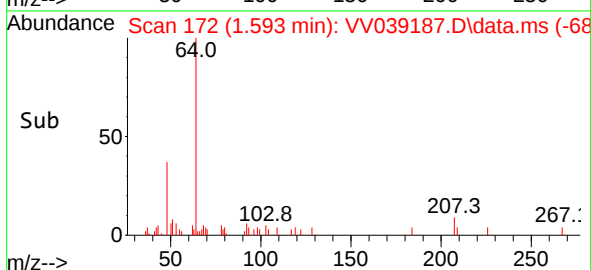
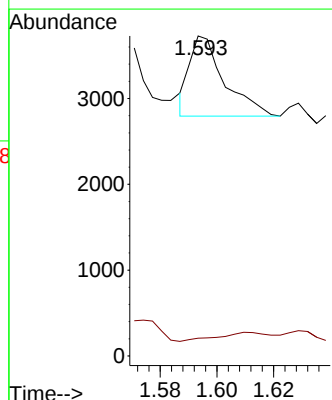
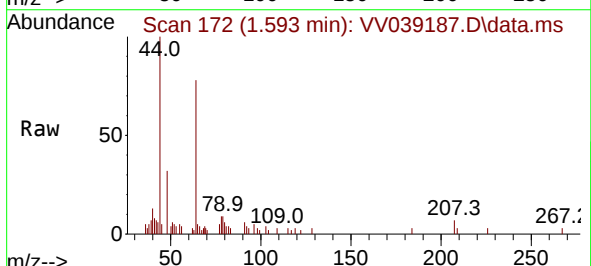
Instrument :
MSVOA_V
ClientSampleId :

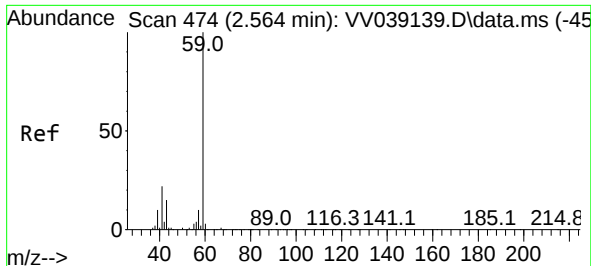
Tgt Ion:168 Resp: 360957
Ion Ratio Lower Upper
168 100
99 61.1 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.593 min Scan# 172
Delta R.T. 0.035 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion: 64 Resp: 798
Ion Ratio Lower Upper
64 100
66 4.0 24.6 36.8#

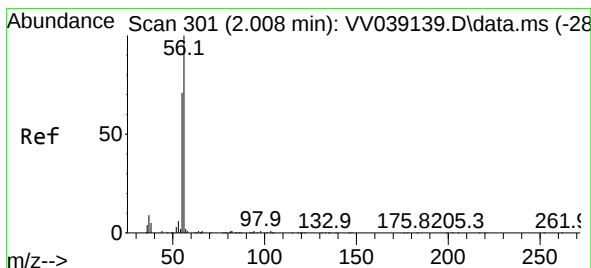
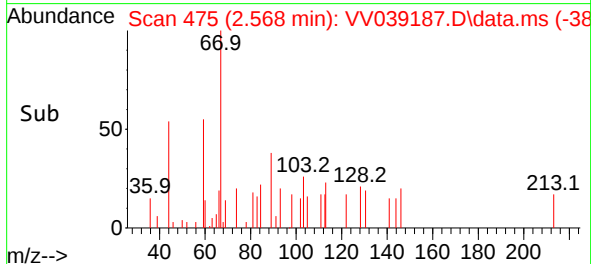
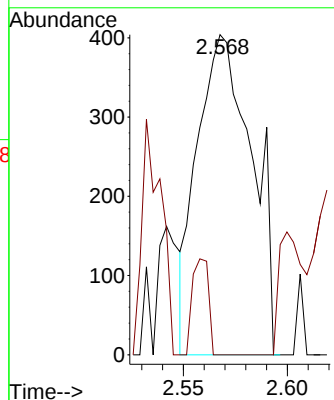
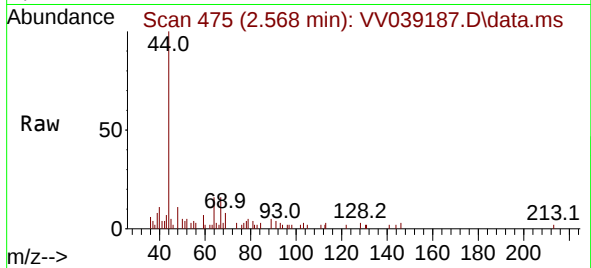




#11
Tert butyl alcohol
Concen: 0.667 ug/l
RT: 2.568 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

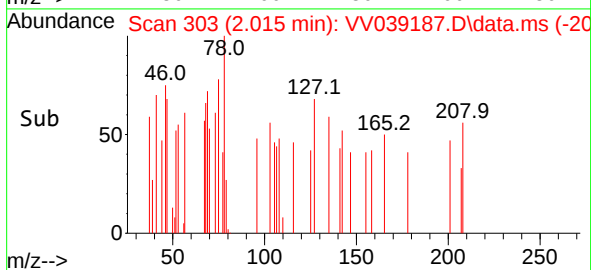
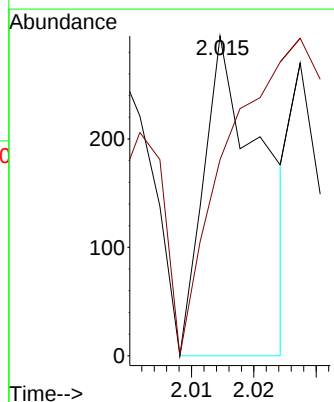
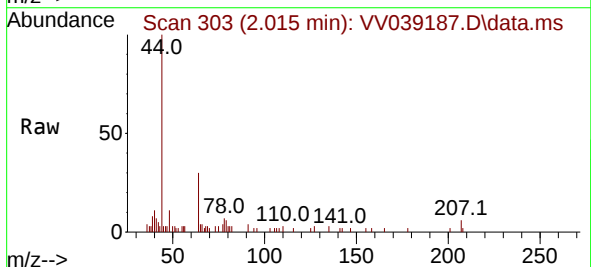
Instrument :
MSVOA_V
ClientSampleId :

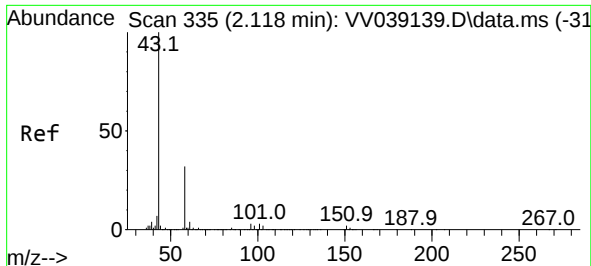
Tgt Ion: 59 Resp: 737
Ion Ratio Lower Upper
59 100
57 9.0 7.8 11.8



#13
Acrolein
Concen: 1.007 ug/l
RT: 2.015 min Scan# 303
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion: 56 Resp: 193
Ion Ratio Lower Upper
56 100
55 196.9 56.2 84.4#

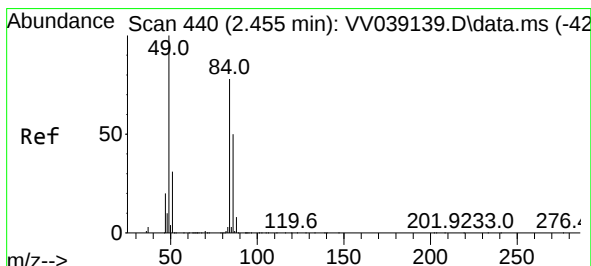
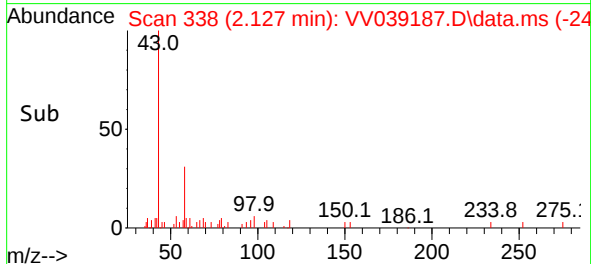
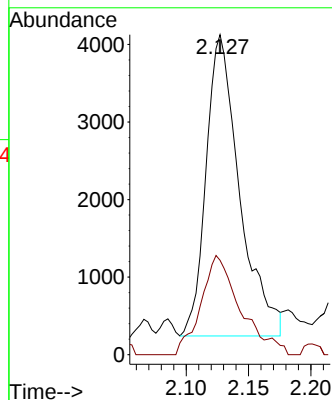
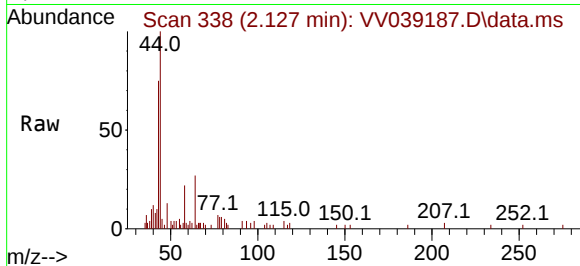




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

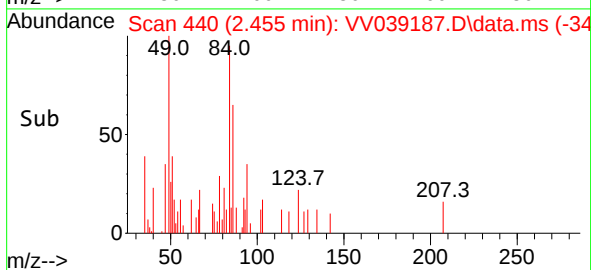
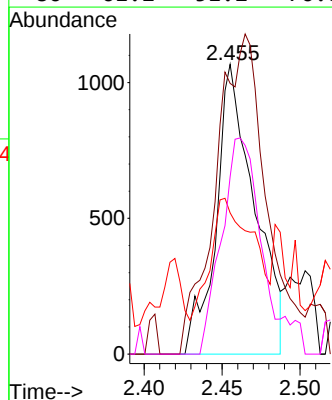
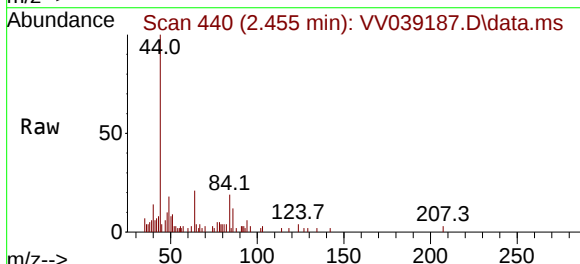
Instrument :
MSVOA_V
ClientSampleId :

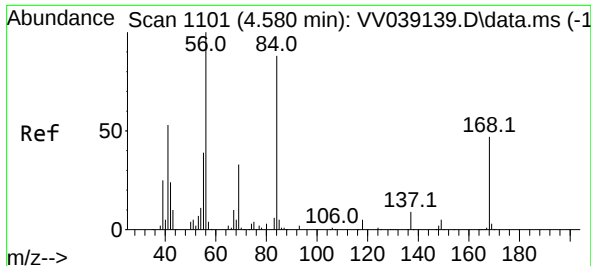
Tgt Ion: 43 Resp: 7267
Ion Ratio Lower Upper
43 100
58 28.3 25.8 38.6



#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

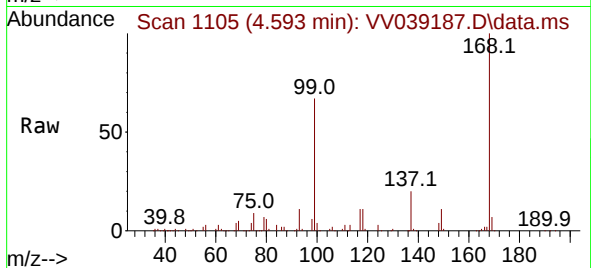
Tgt Ion: 84 Resp: 1823
Ion Ratio Lower Upper
84 100
49 93.4 102.8 154.2#
51 23.6 31.9 47.9#
86 61.2 51.2 76.8



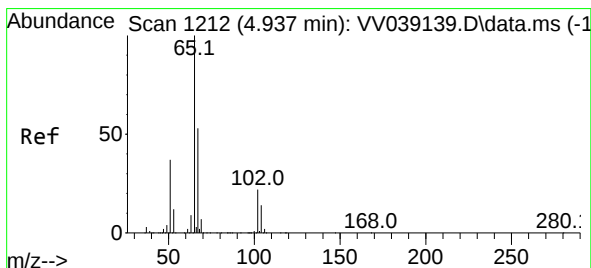
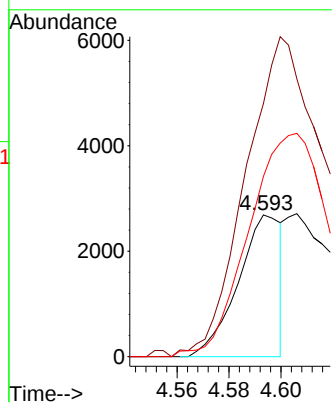
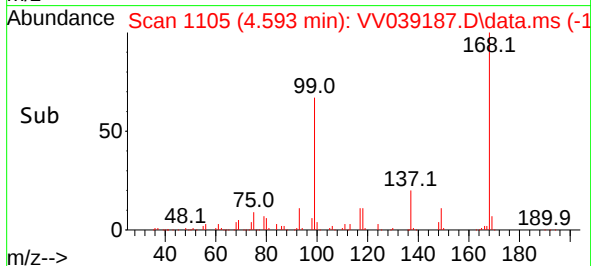


#31
Cyclohexane
Concen: 0.331 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Instrument :
MSVOA_V
ClientSampleId :

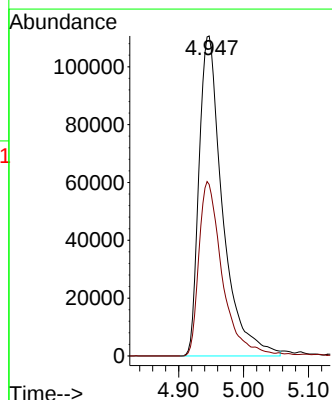
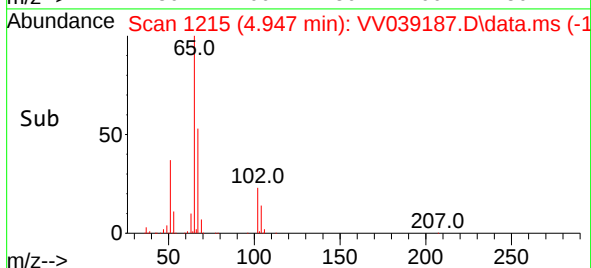
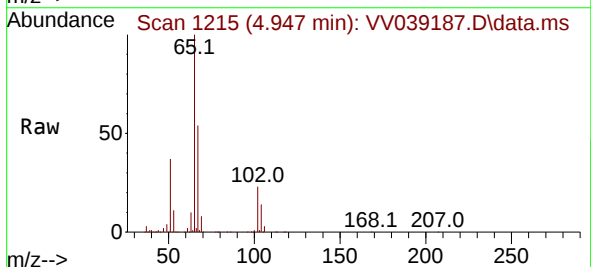


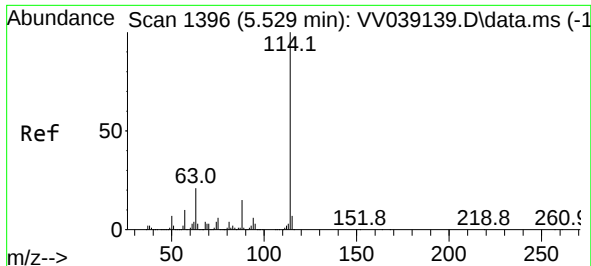
Tgt Ion: 56 Resp: 3088
Ion Ratio Lower Upper
56 100
69 173.8 26.2 39.2#
84 123.1 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 53.529 ug/l
RT: 4.947 min Scan# 1215
Delta R.T. 0.010 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion: 65 Resp: 279642
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

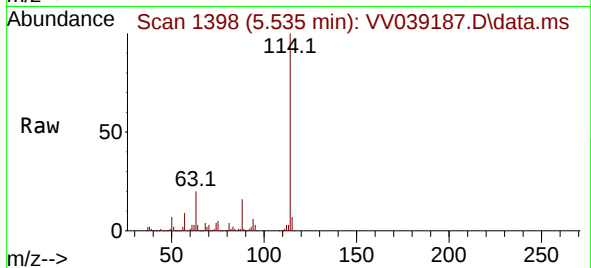
Lab File: VV039187.D

Acq: 25 Sep 2025 17:25

Instrument :

MSVOA_V

ClientSampleId :



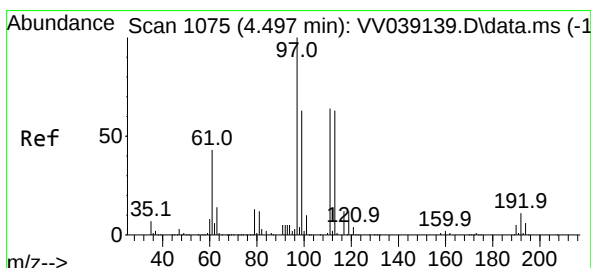
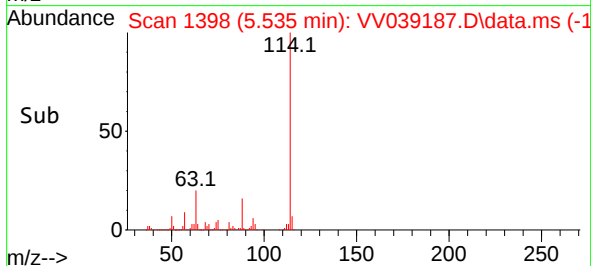
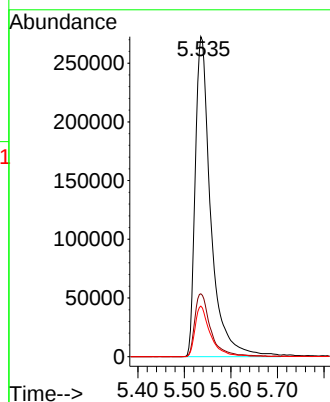
Tgt Ion:114 Resp: 632244

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.6

88 15.8 0.0 30.8



#35

Dibromofluoromethane

Concen: 50.674 ug/l

RT: 4.506 min Scan# 1078

Delta R.T. 0.010 min

Lab File: VV039187.D

Acq: 25 Sep 2025 17:25

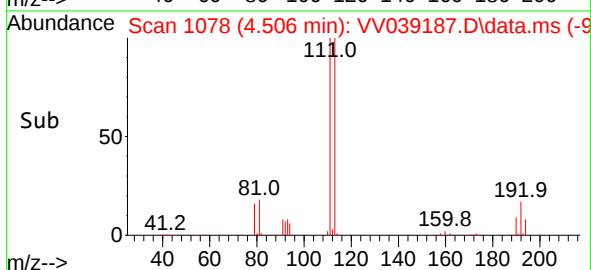
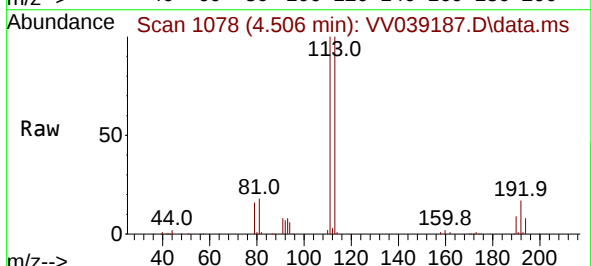
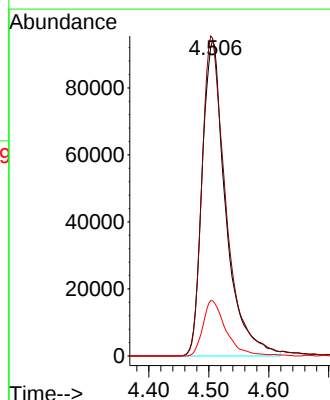
Tgt Ion:113 Resp: 257560

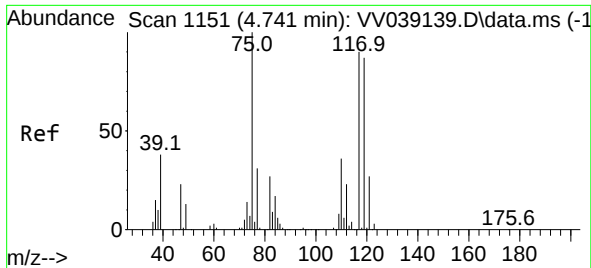
Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

192 17.1 13.8 20.8

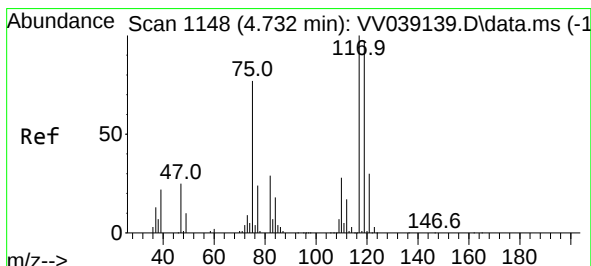
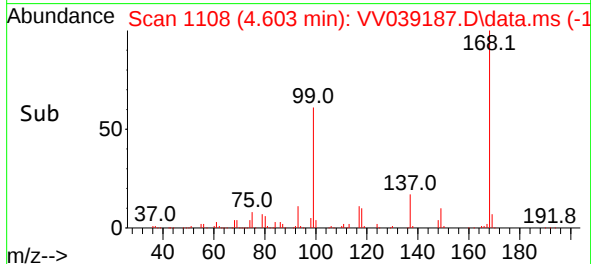
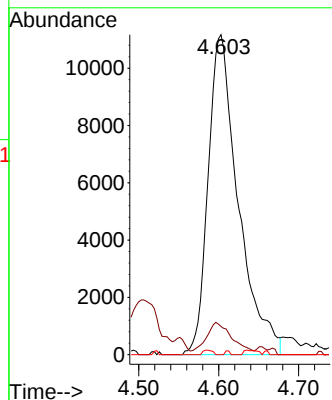
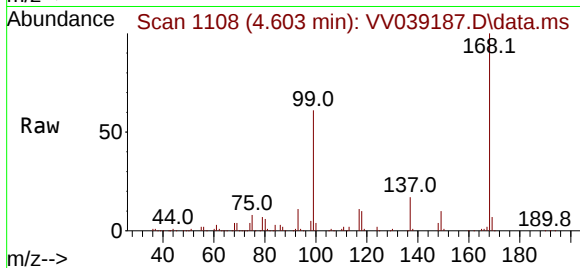




#36
 1,1-Dichloropropene
 Concen: 3.802 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.138 min
 Lab File: VV039187.D
 Acq: 25 Sep 2025 17:25

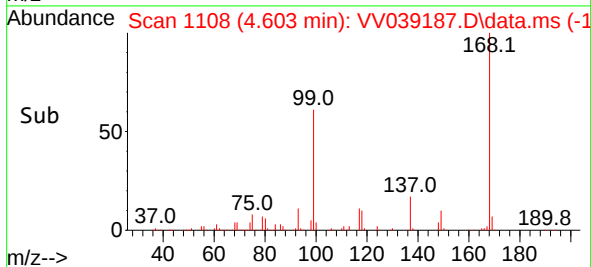
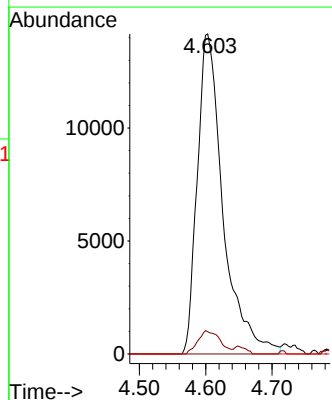
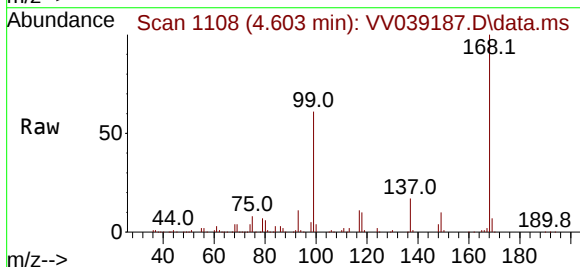
Instrument :
 MSVOA_V
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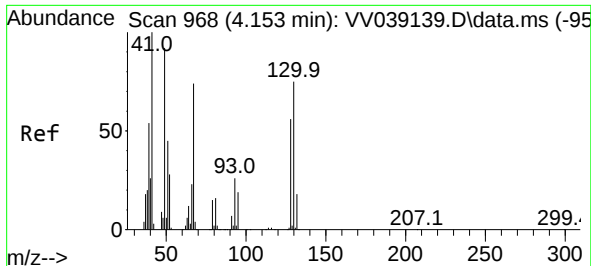
Tgt Ion: 75 Resp: 29220
 Ion Ratio Lower Upper
 75 100
 110 7.2 18.1 54.1#
 77 0.2 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 4.070 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.129 min
 Lab File: VV039187.D
 Acq: 25 Sep 2025 17:25

Tgt Ion: 117 Resp: 38224
 Ion Ratio Lower Upper
 117 100
 119 6.9 77.2 115.8#
 121 0.0 24.2 36.2#

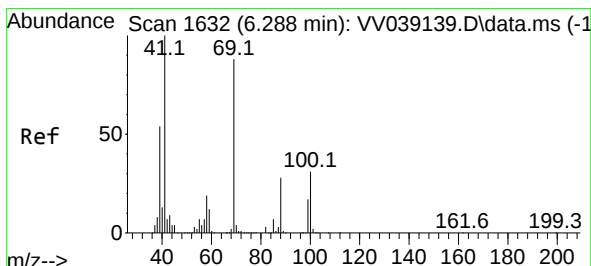
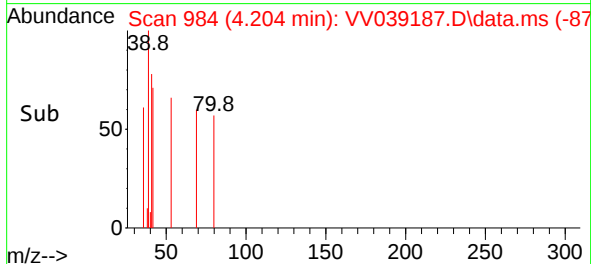
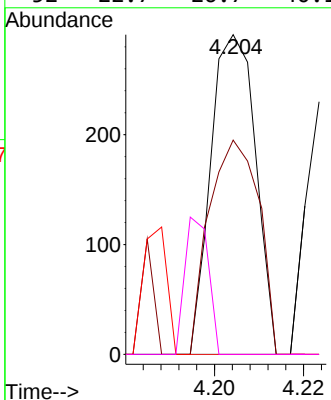
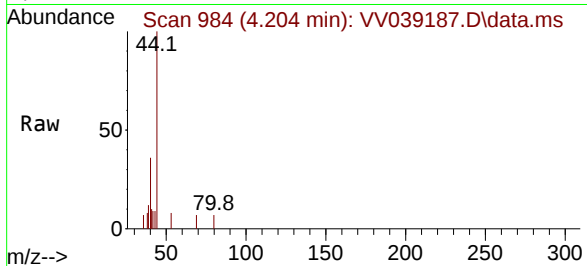




#41
Methacrylonitrile
Concen: 1.957 ug/l
RT: 4.204 min Scan# 91
Delta R.T. 0.051 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

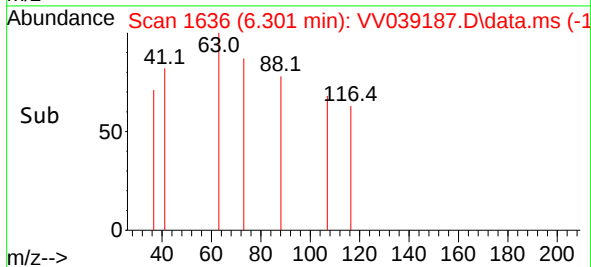
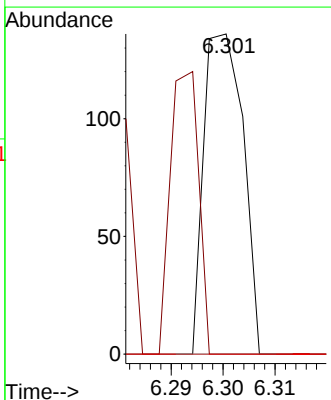
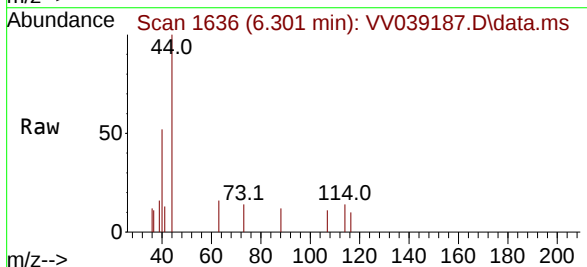
Instrument :
MSVOA_V
ClientSampleId :

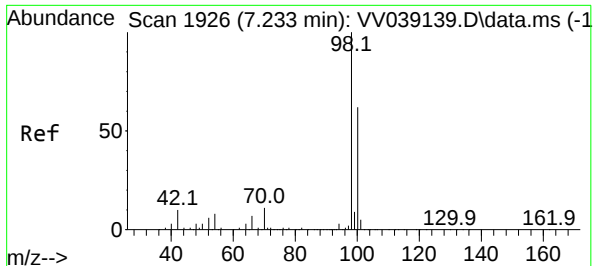
Tgt Ion:	41	Resp:	203
Ion	Ratio	Lower	Upper
41	100		
39	74.9	42.2	63.2#
67	0.0	67.9	101.9#
52	22.7	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.774 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.013 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion:	88	Resp:	72
Ion	Ratio	Lower	Upper
88	100		
43	62.5	25.1	37.7#
58	0.0	53.6	80.4#





#50

Toluene-d8

Concen: 45.338 ug/l

RT: 7.239 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV039187.D

Acq: 25 Sep 2025 17:25

Instrument :

MSVOA_V

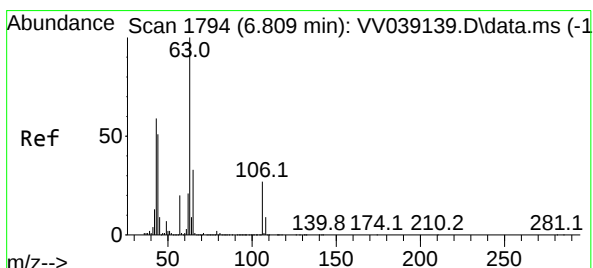
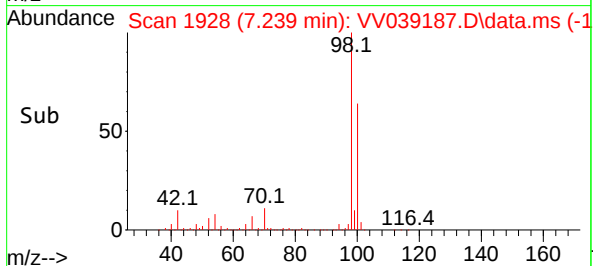
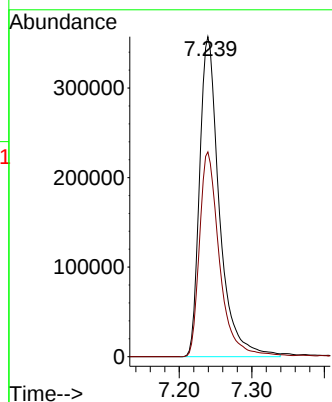
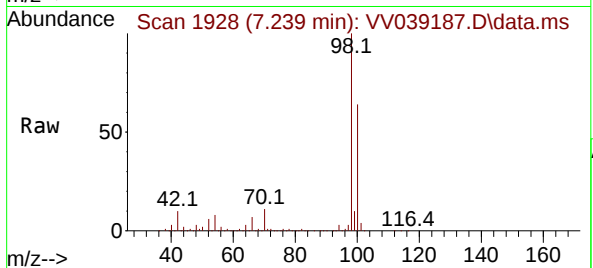
ClientSampleId :

Tgt Ion: 98 Resp: 676812

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.657 ug/l

RT: 6.815 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VV039187.D

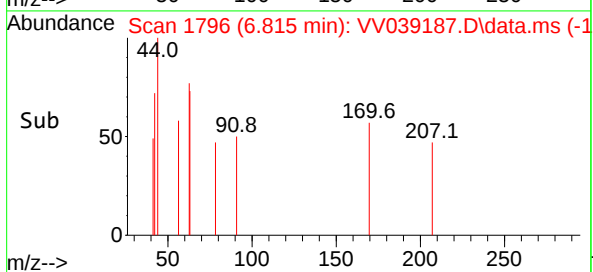
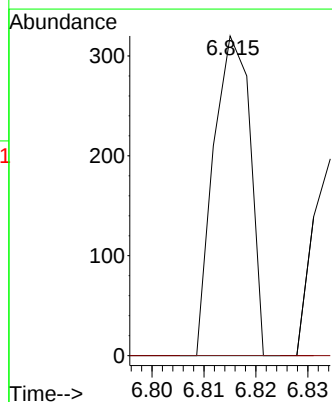
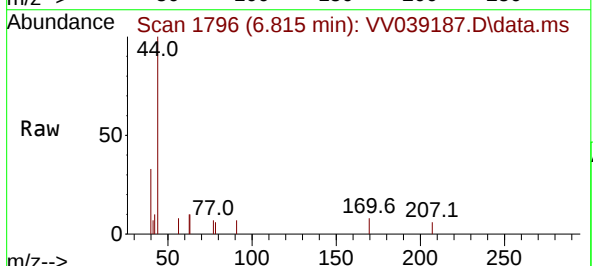
Acq: 25 Sep 2025 17:25

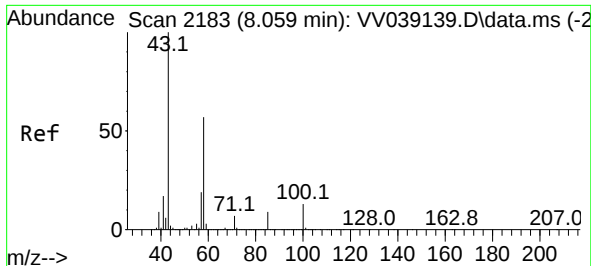
Tgt Ion: 63 Resp: 156

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.347 ug/l

RT: 8.165 min Scan# 2183

Delta R.T. 0.106 min

Lab File: VV039187.D

Acq: 25 Sep 2025 17:25

Instrument :

MSVOA_V

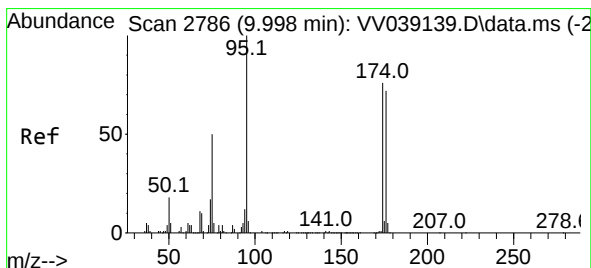
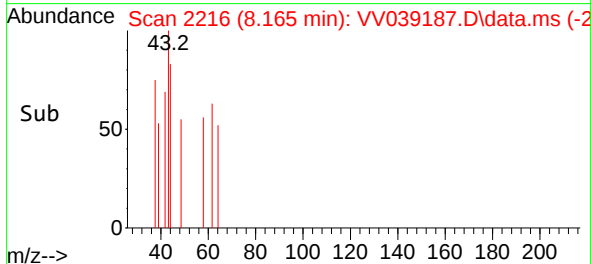
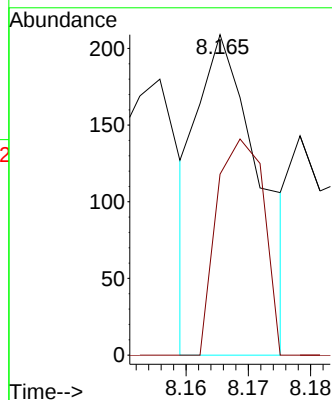
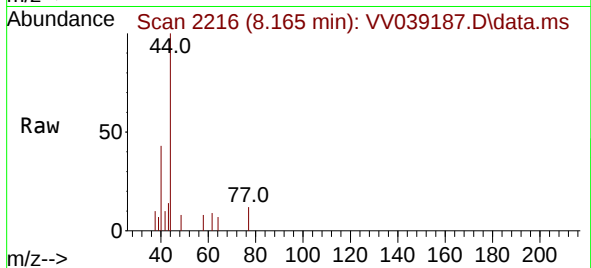
ClientSampleId :

Tgt Ion: 43 Resp: 146

Ion Ratio Lower Upper

43 100

58 50.7 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 43.678 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039187.D

Acq: 25 Sep 2025 17:25

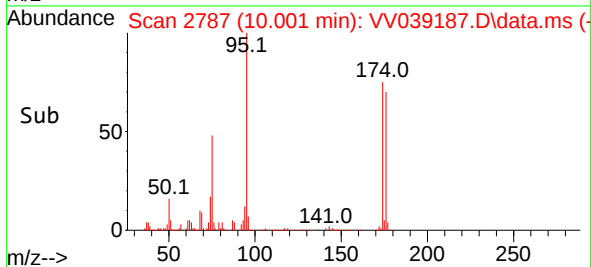
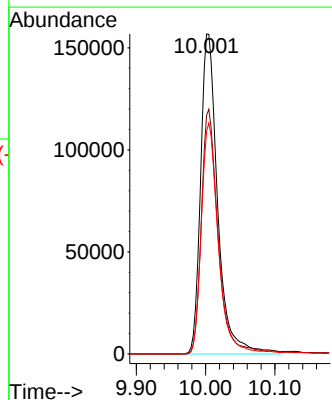
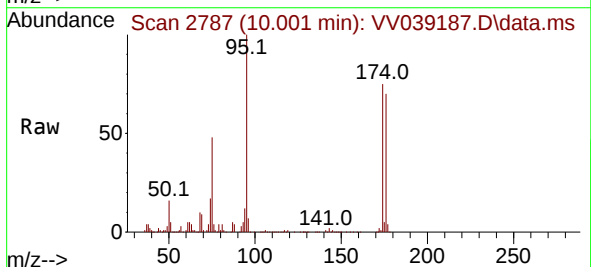
Tgt Ion: 95 Resp: 268424

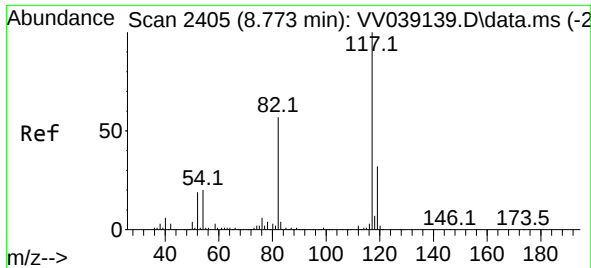
Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.4

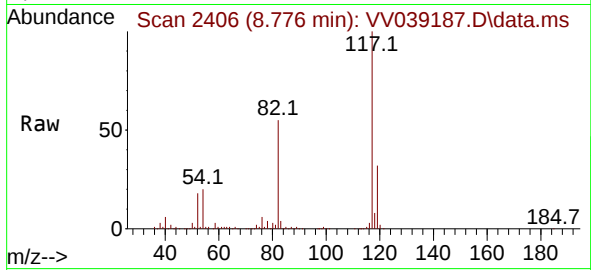
176 71.0 0.0 144.2



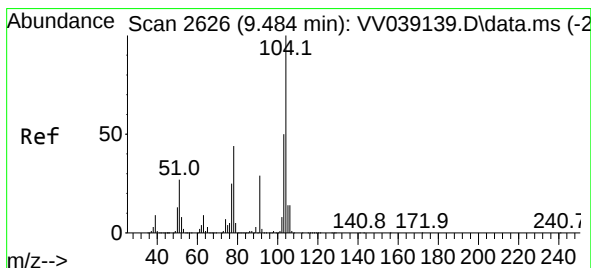
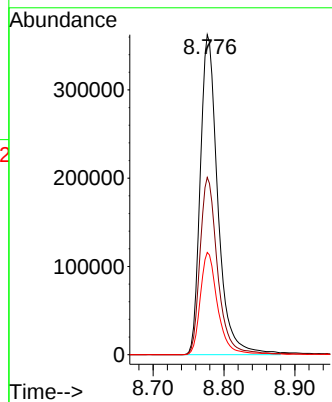
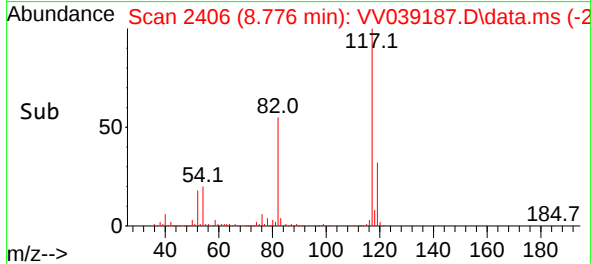


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Instrument :
MSVOA_V
ClientSampleId :

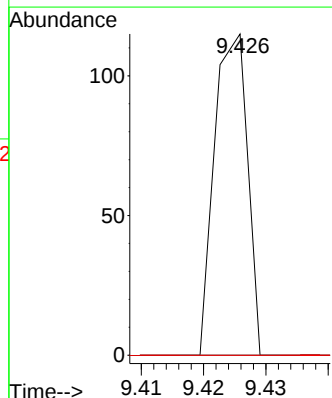
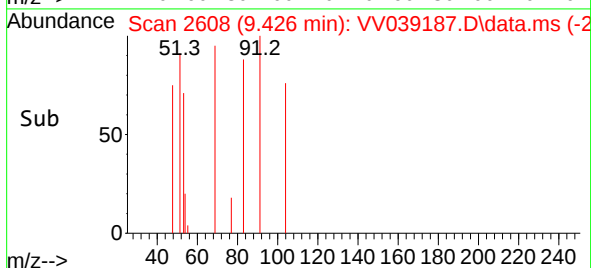
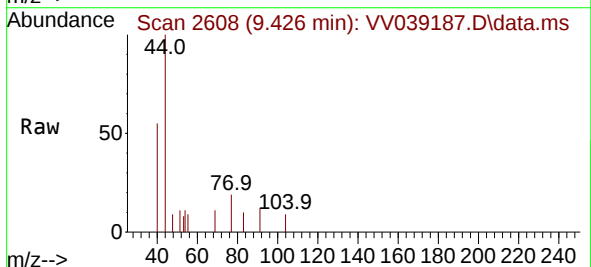


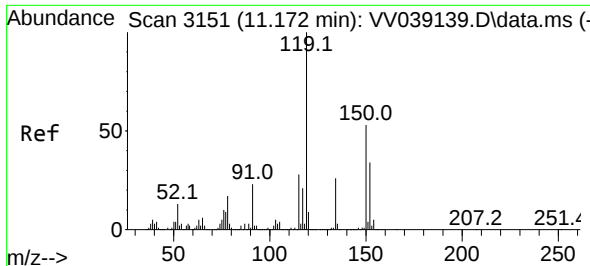
Tgt Ion:117 Resp: 624309
Ion Ratio Lower Upper
117 100
82 55.4 45.4 68.2
119 31.9 25.6 38.4



#70
Styrene
Concen: 1.564 ug/l
RT: 9.426 min Scan# 2608
Delta R.T. -0.058 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

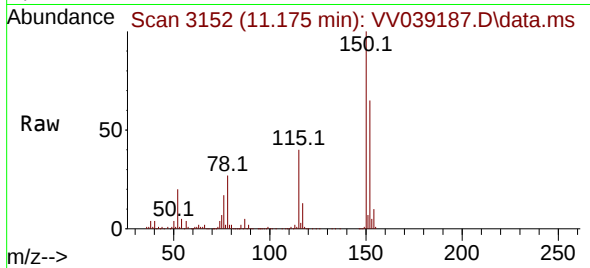
Tgt Ion:104 Resp: 42
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#



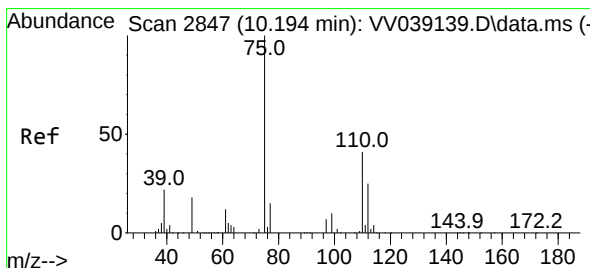
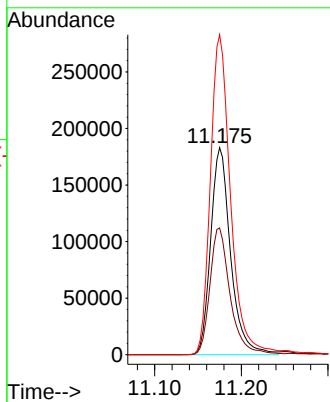
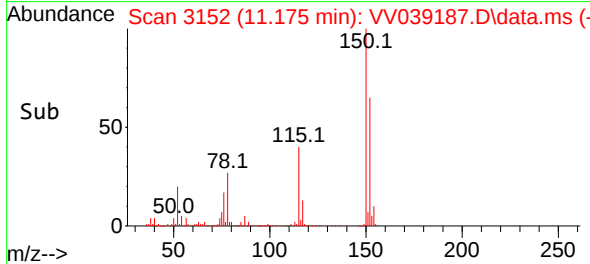


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039187.D
 Acq: 25 Sep 2025 17:25

Instrument :
 MSVOA_V
 ClientSampleId :

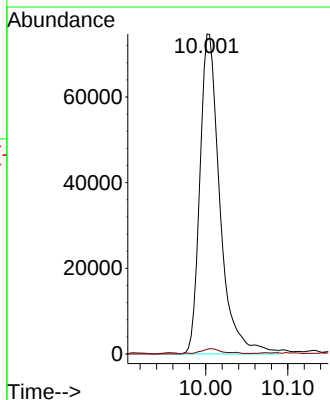
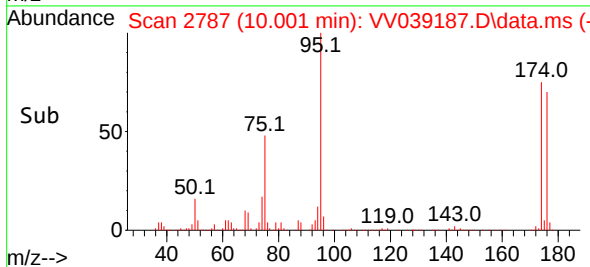
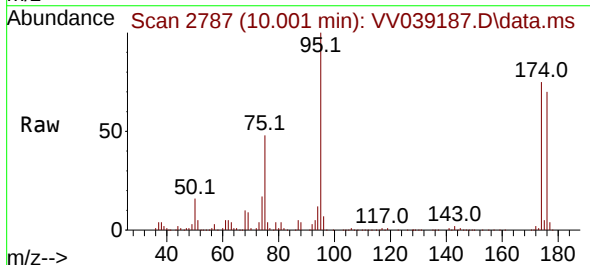


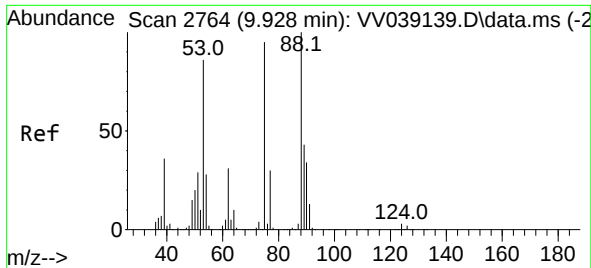
Tgt Ion:152 Resp: 293380
 Ion Ratio Lower Upper
 152 100
 115 61.8 44.8 134.4
 150 155.7 0.0 353.8



#76
 1,2,3-Trichloropropane
 Concen: 18.956 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039187.D
 Acq: 25 Sep 2025 17:25

Tgt Ion: 75 Resp: 126622
 Ion Ratio Lower Upper
 75 100
 77 1.3 11.3 33.8#

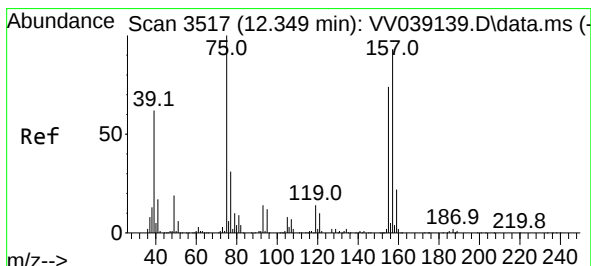
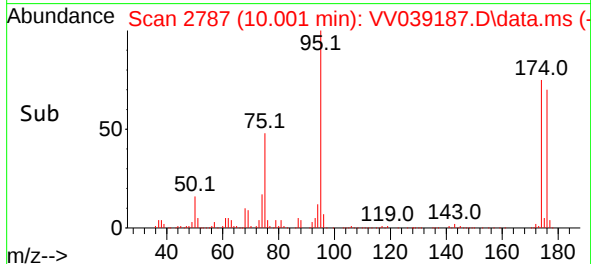
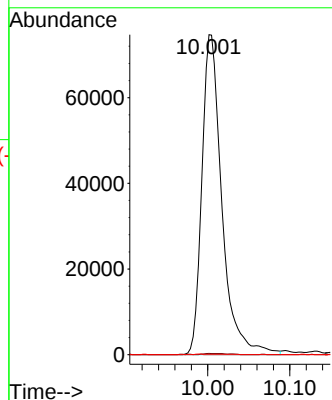
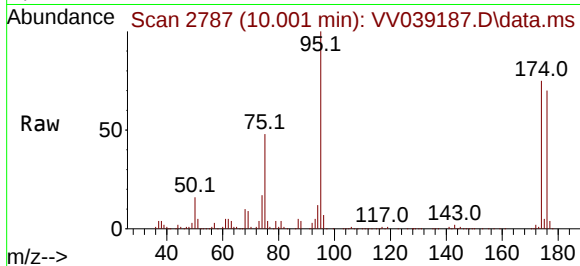




#81
 trans-1,4-Dichloro-2-butene
 Concen: 45.507 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. 0.074 min
 Lab File: VV039187.D
 Acq: 25 Sep 2025 17:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion: 75 Resp: 126622
 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: 12.374 min Scan# 3525
 Delta R.T. 0.025 min
 Lab File: VV039187.D
 Acq: 25 Sep 2025 17:25

Tgt Ion: 75 Resp: 21
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

