

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039230.D
 Acq On : 29 Sep 2025 14:38
 Operator : SY/MD
 Sample : Q3195-16DL 40X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 30 01:26:18 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

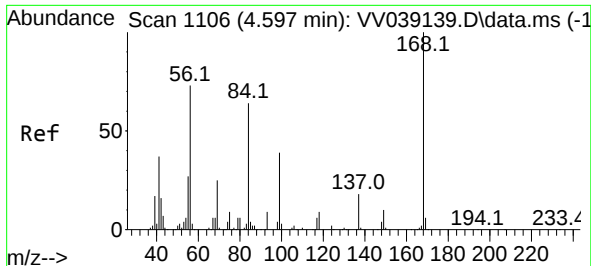
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	458405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	805402	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	812071	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	405371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	377389	56.883	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 113.760%	
35) Dibromofluoromethane	4.500	113	361022	55.758	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 111.520%	
50) Toluene-d8	7.236	98	858799	45.161	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 90.320%	
62) 4-Bromofluorobenzene	10.001	95	350525	44.775	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 89.560%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.098	85	3606	0.497	ug/l	99
5) Bromomethane	1.507	94	1196	0.227	ug/l	82
6) Chloroethane	1.452	64	472	Below Cal	#	88
9) 1,1,2-Trichlorotrifluo...	2.082	101	429996	59.852	ug/l	97
10) Methyl Iodide	2.208	142	1619	0.237	ug/l #	91
12) 1,1-Dichloroethene	2.079	96	3581	0.518	ug/l #	61
13) Acrolein	2.018	56	233	0.958	ug/l #	73
16) Acetone	2.114	43	502	Below Cal	#	60
20) Methylene Chloride	2.458	84	4458	Below Cal		96
24) 1,1-Dichloroethane	3.121	63	3525	0.244	ug/l #	83
31) Cyclohexane	4.606	56	10042	0.849	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	38491	3.932	ug/l #	48
38) Carbon Tetrachloride	4.600	117	47858	4.000	ug/l #	17
41) Methacrylonitrile	4.143	41	128	1.933	ug/l #	46
44) Trichloroethene	5.841	130	45433	6.176	ug/l	96
49) 1,4-Dioxane	6.346	88	55	0.464	ug/l #	59
58) 2-Chloroethyl Vinyl ether	6.854	63	70	9.635	ug/l #	47
59) 2-Hexanone	7.815	43	136	2.341	ug/l	69
70) Styrene	9.571	104	84	1.565	ug/l #	26
76) 1,2,3-Trichloropropane	10.001	75	172140	18.651	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.001	75	172140	44.775	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.339	75	65	Below Cal	#	5

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

Quant Time: Sep 30 01:26:18 2025
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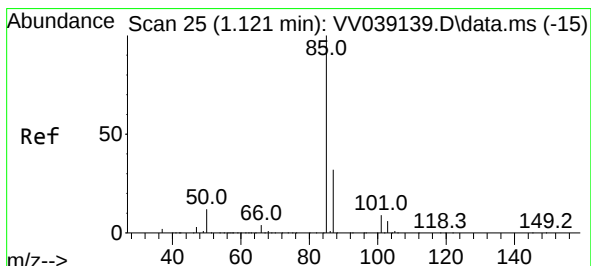
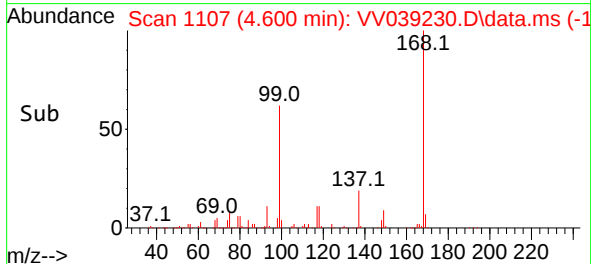
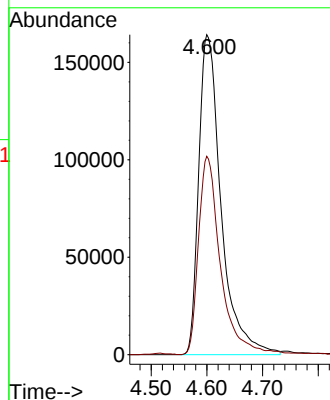
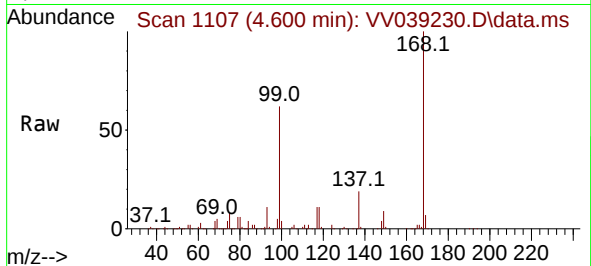




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

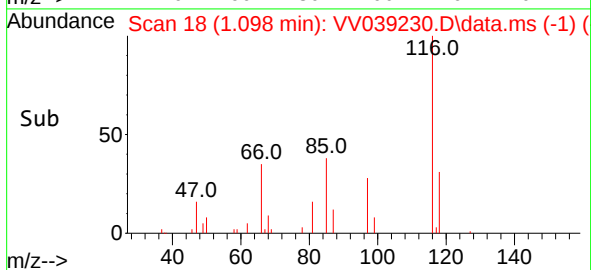
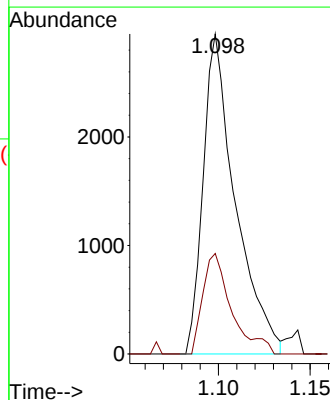
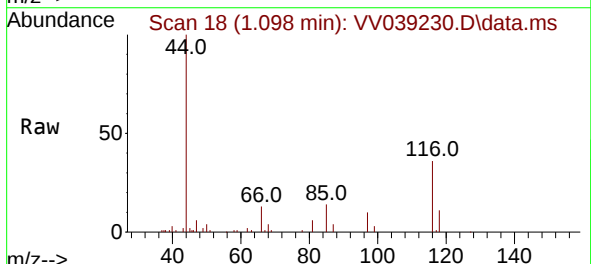
Instrument :
MSVOA_V
ClientSampleId :

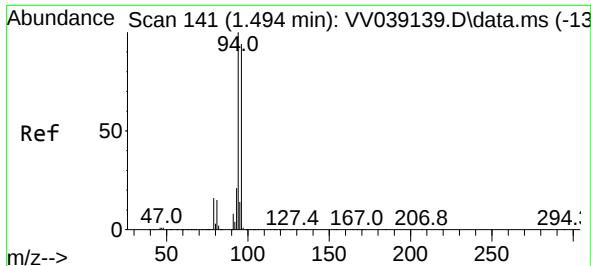
Tgt Ion:168 Resp: 458405
Ion Ratio Lower Upper
168 100
99 61.9 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 0.497 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.022 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 85 Resp: 3606
Ion Ratio Lower Upper
85 100
87 31.4 16.0 47.9

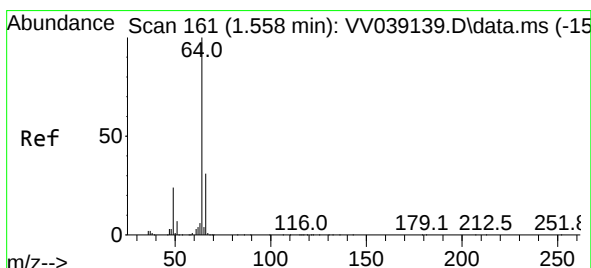
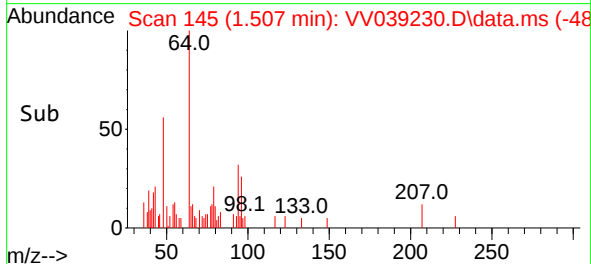
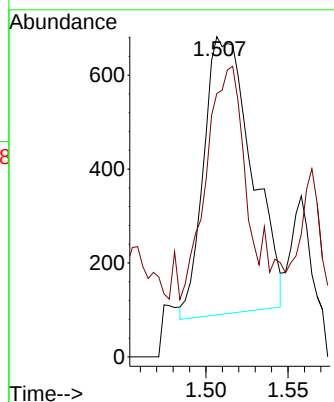
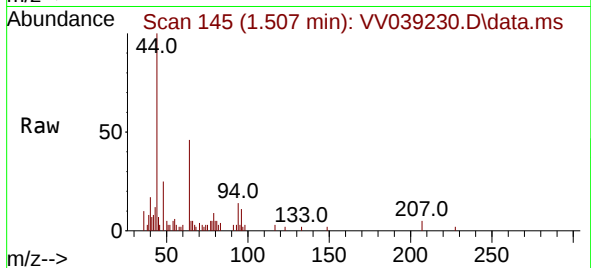




#5
Bromomethane
Concen: 0.227 ug/l
RT: 1.507 min Scan# 141
Delta R.T. 0.013 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

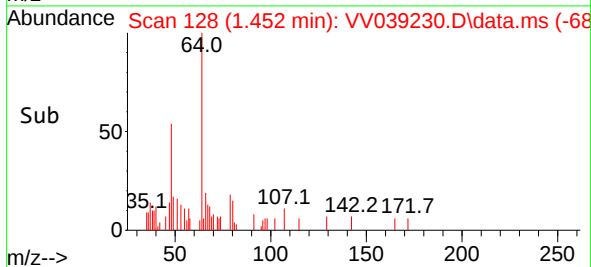
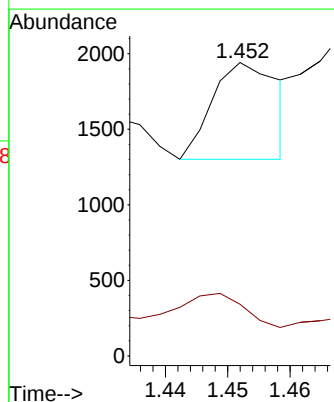
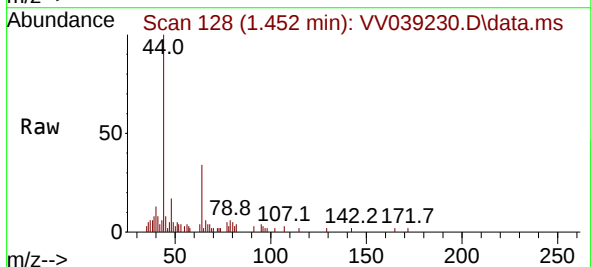
Instrument :
MSVOA_V
ClientSampleId :

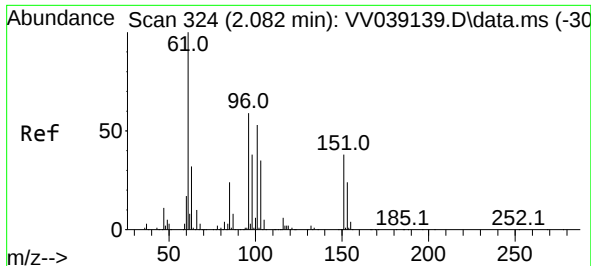
Tgt Ion: 94 Resp: 1196
Ion Ratio Lower Upper
94 100
96 76.2 74.9 112.3



#6
Chloroethane
Concen: Below Cal
RT: 1.452 min Scan# 128
Delta R.T. -0.106 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 64 Resp: 472
Ion Ratio Lower Upper
64 100
66 24.0 24.6 36.8#

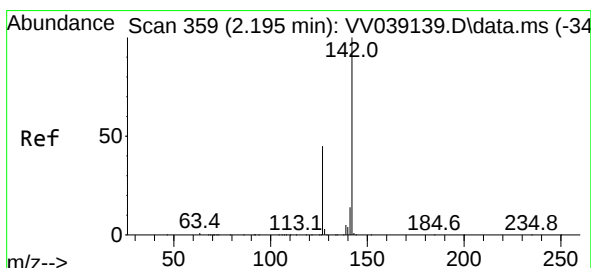
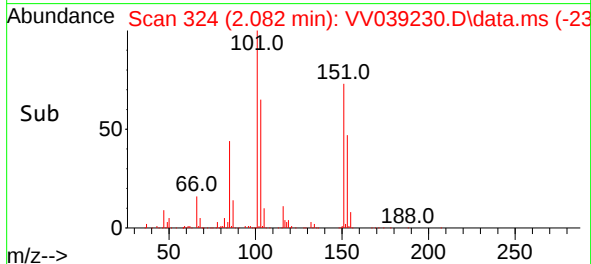
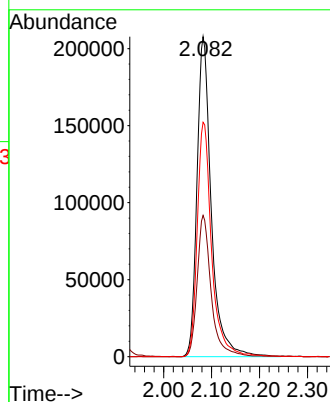
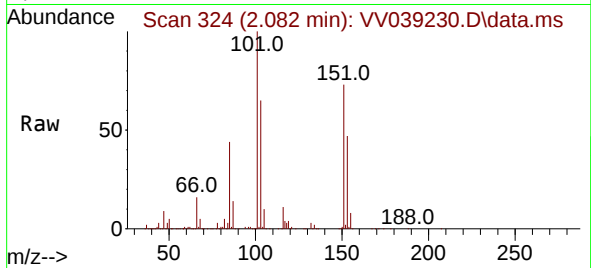




#9
1,1,2-Trichlorotrifluoroethane
Concen: 59.852 ug/l
RT: 2.082 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

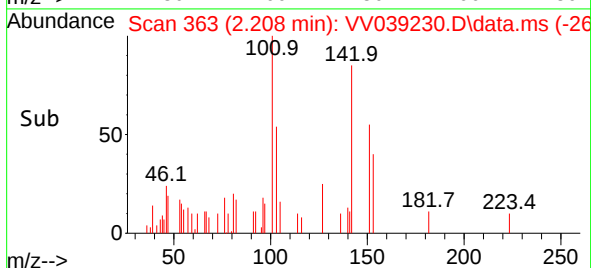
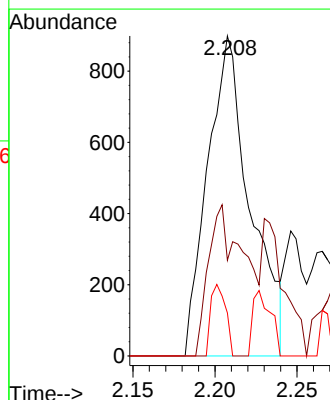
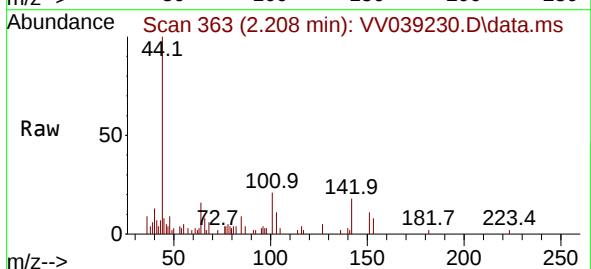
Instrument :
MSVOA_V
ClientSampleId :

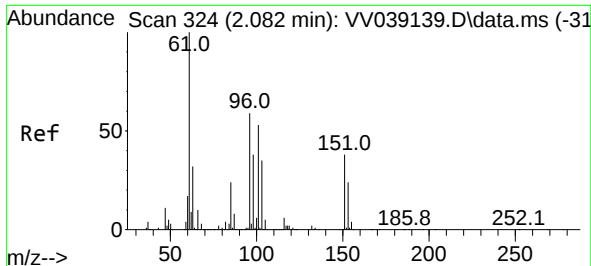
Tgt Ion:101 Resp: 429996
Ion Ratio Lower Upper
101 100
85 43.2 36.2 54.2
151 73.0 56.3 84.5



#10
Methyl Iodide
Concen: 0.237 ug/l
RT: 2.208 min Scan# 363
Delta R.T. 0.013 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion:142 Resp: 1619
Ion Ratio Lower Upper
142 100
127 40.3 36.3 54.5
141 7.8 11.2 16.8#





#12

1,1-Dichloroethene

Concen: 0.518 ug/l

RT: 2.079 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV039230.D

Acq: 29 Sep 2025 14:38

Instrument :

MSVOA_V

ClientSampleId :

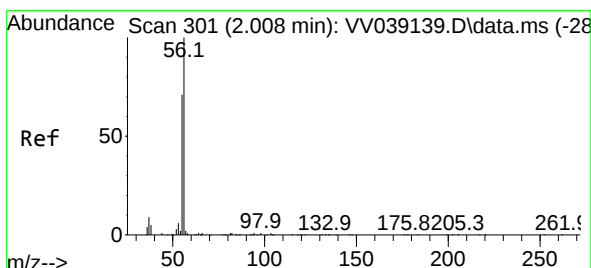
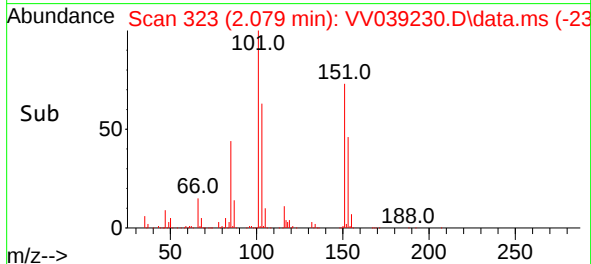
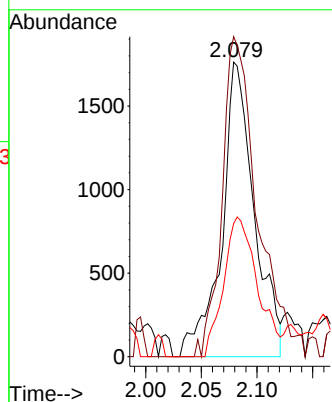
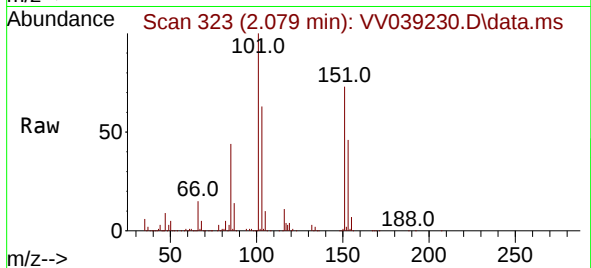
Tgt Ion: 96 Resp: 3581

Ion Ratio Lower Upper

96 100

61 108.6 136.0 204.0#

98 45.2 51.0 76.6#



#13

Acrolein

Concen: 0.958 ug/l

RT: 2.018 min Scan# 304

Delta R.T. 0.010 min

Lab File: VV039230.D

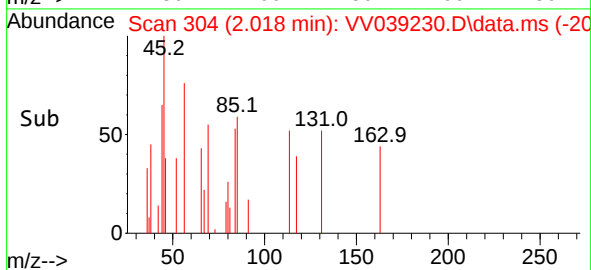
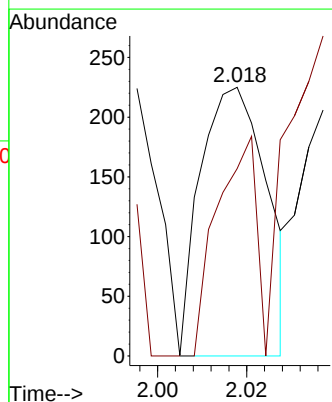
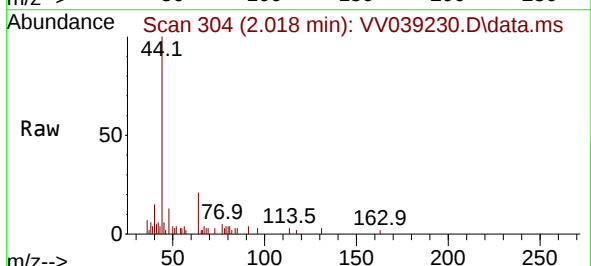
Acq: 29 Sep 2025 14:38

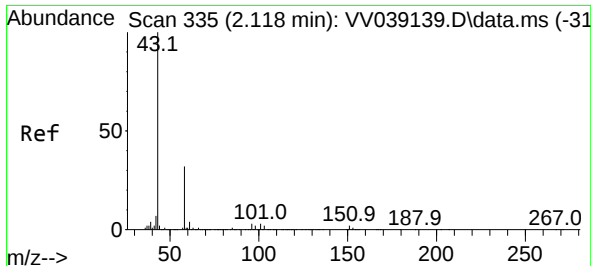
Tgt Ion: 56 Resp: 233

Ion Ratio Lower Upper

56 100

55 48.5 56.2 84.4#

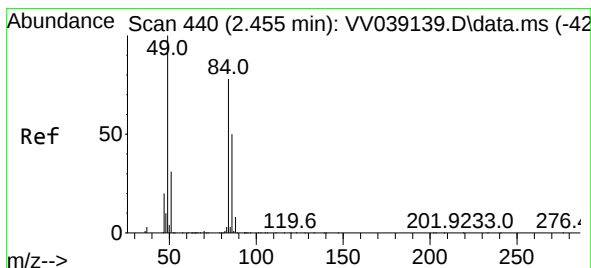
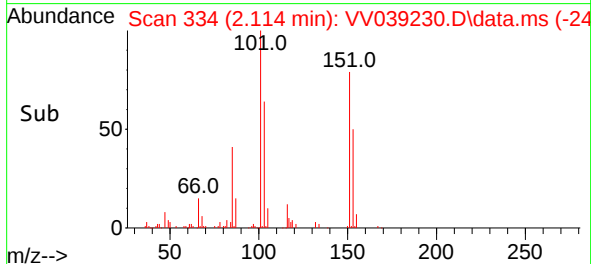
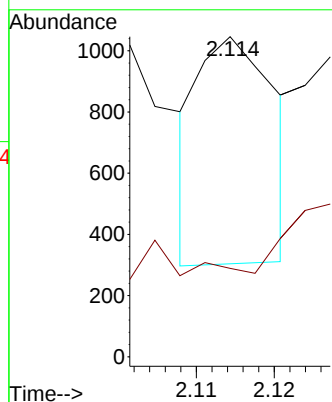
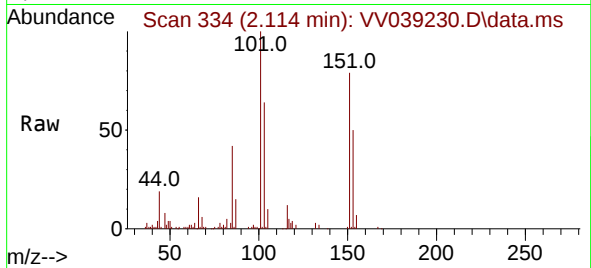




#16
Acetone
Concen: Below Cal
RT: 2.114 min Scan# 31
Delta R.T. -0.004 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

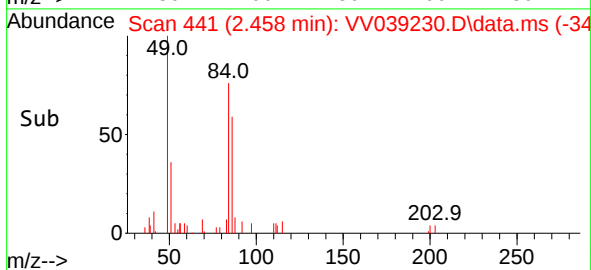
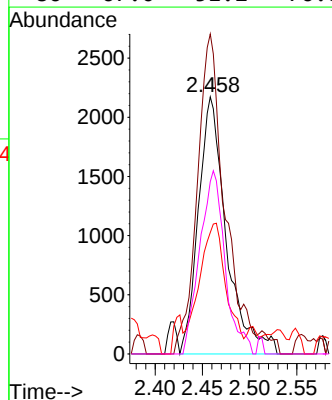
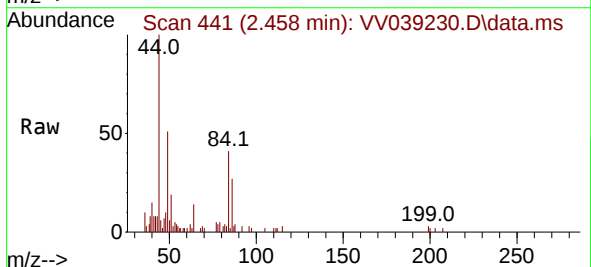
Instrument :
MSVOA_V
ClientSampleId :

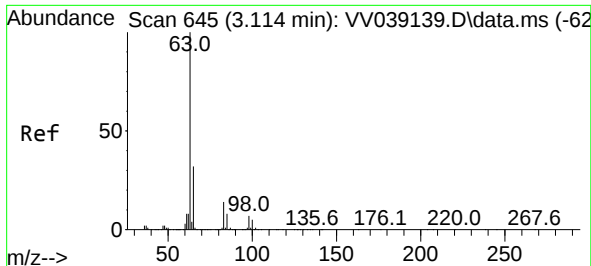
Tgt Ion: 43 Resp: 502
Ion Ratio Lower Upper
43 100
58 9.8 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

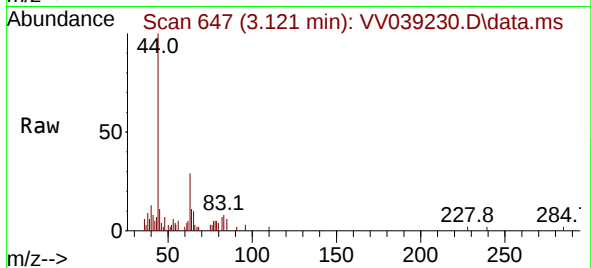
Tgt Ion: 84 Resp: 4458
Ion Ratio Lower Upper
84 100
49 124.4 102.8 154.2
51 37.9 31.9 47.9
86 67.0 51.2 76.8



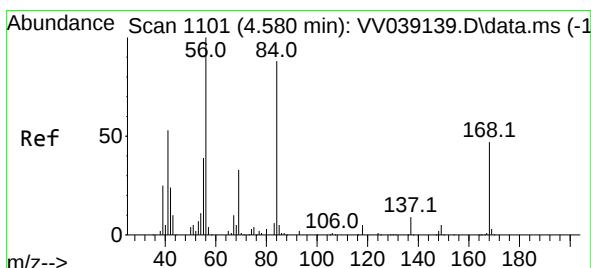
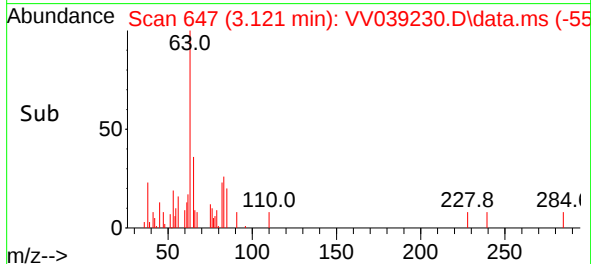
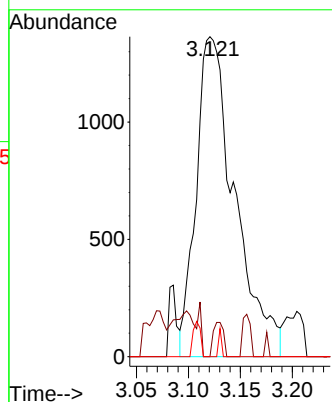


#24
1,1-Dichloroethane
Concen: 0.244 ug/l
RT: 3.121 min Scan# 64
Delta R.T. 0.006 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :

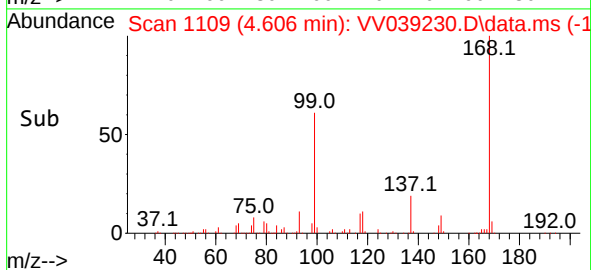
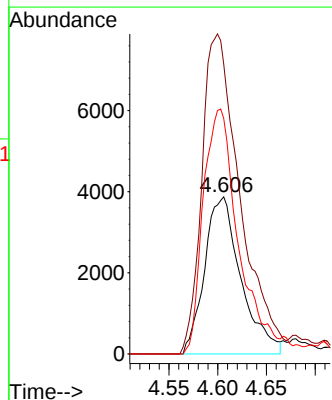
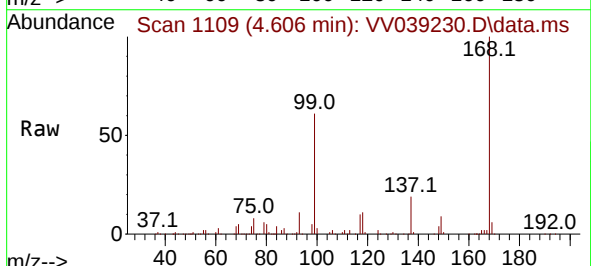


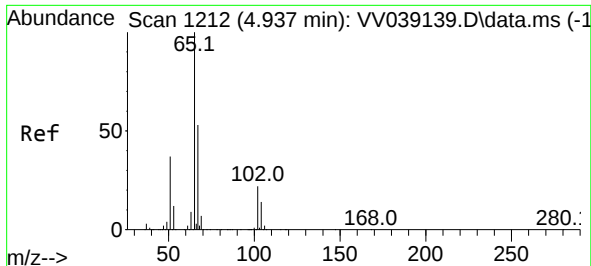
Tgt Ion: 63 Resp: 3525
Ion Ratio Lower Upper
63 100
98 0.0 3.4 10.2#
100 0.0 2.2 6.6#



#31
Cyclohexane
Concen: 0.849 ug/l
RT: 4.606 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 56 Resp: 10042
Ion Ratio Lower Upper
56 100
69 184.4 26.2 39.2#
84 149.8 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 56.883 ug/l

RT: 4.941 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039230.D

Acq: 29 Sep 2025 14:38

Instrument :

MSVOA_V

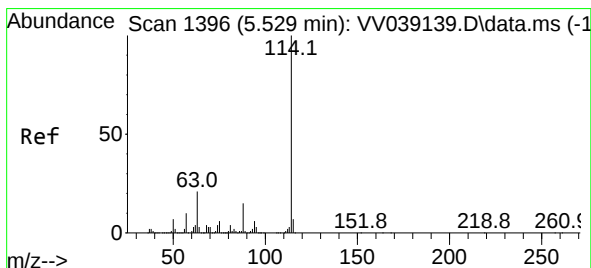
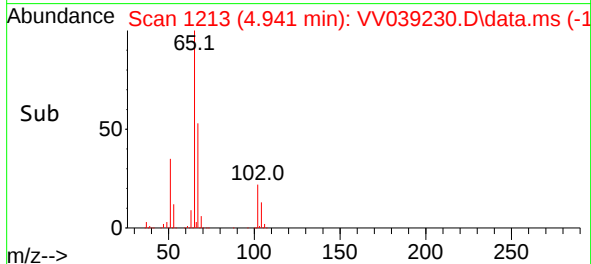
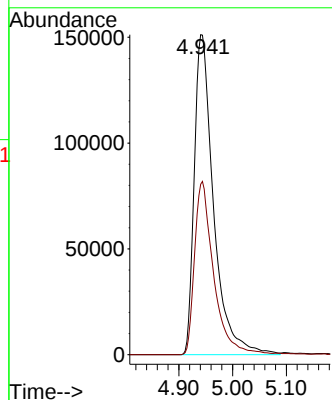
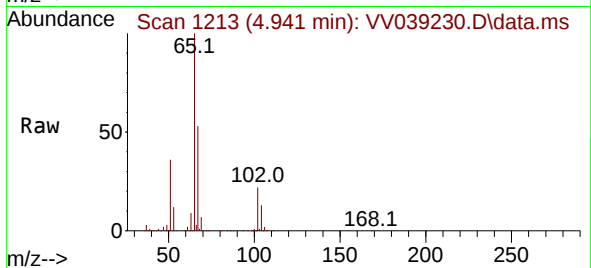
ClientSampleId :

Tgt Ion: 65 Resp: 377389

Ion Ratio Lower Upper

65 100

67 53.5 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: VV039230.D

Acq: 29 Sep 2025 14:38

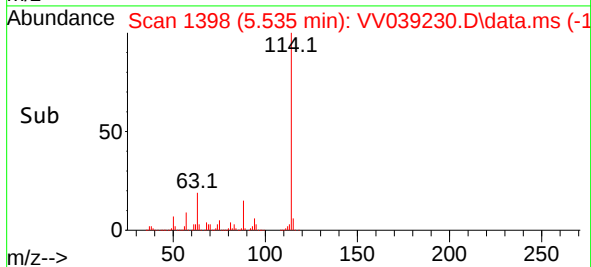
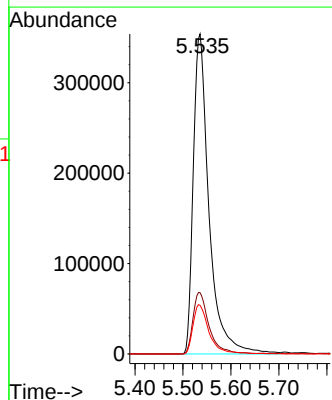
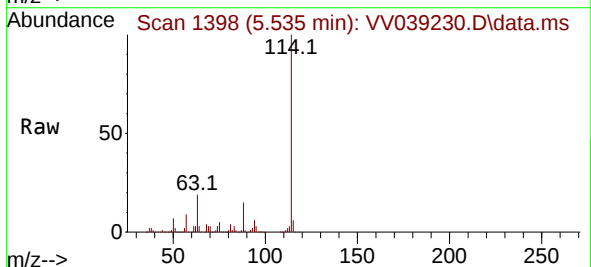
Tgt Ion:114 Resp: 805402

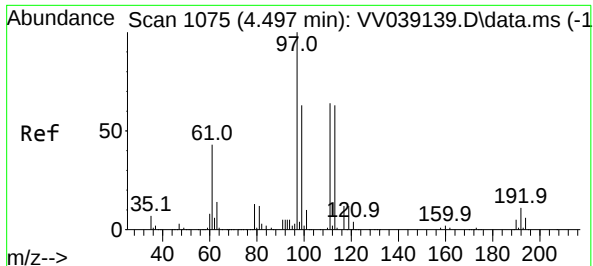
Ion Ratio Lower Upper

114 100

63 19.1 0.0 42.6

88 15.2 0.0 30.8





#35

Dibromofluoromethane

Concen: 55.758 ug/l

RT: 4.500 min Scan# 1108

Delta R.T. 0.003 min

Lab File: VV039230.D

Acq: 29 Sep 2025 14:38

Instrument :

MSVOA_V

ClientSampleId :

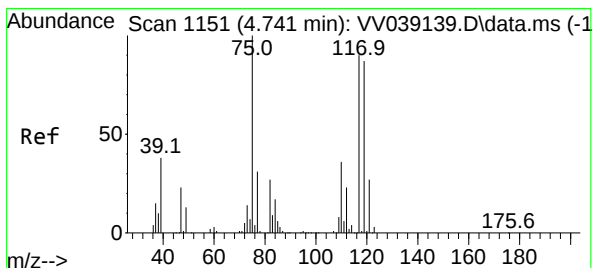
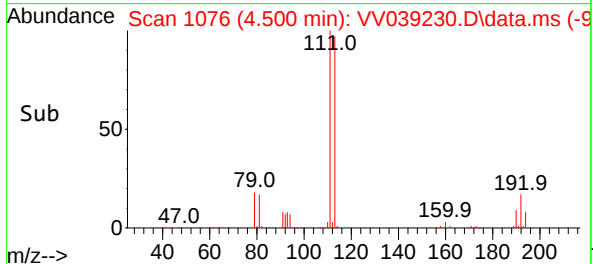
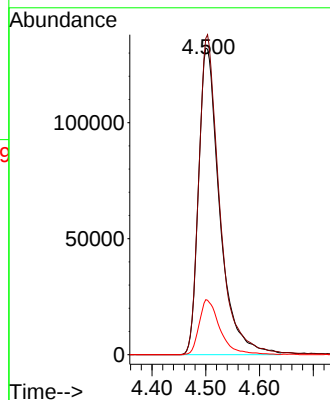
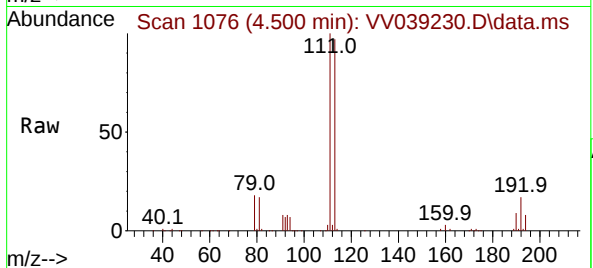
Tgt Ion:113 Resp: 361022

Ion Ratio Lower Upper

113 100

111 102.4 82.4 123.6

192 17.7 13.8 20.8



#36

1,1-Dichloropropene

Concen: 3.932 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.138 min

Lab File: VV039230.D

Acq: 29 Sep 2025 14:38

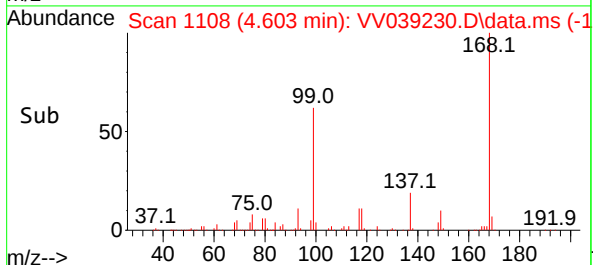
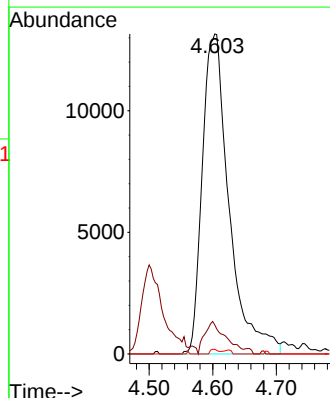
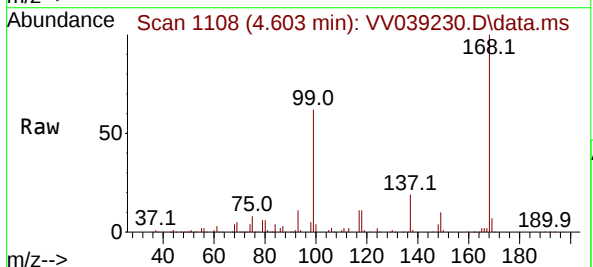
Tgt Ion: 75 Resp: 38491

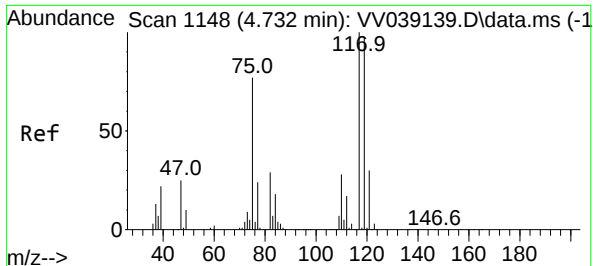
Ion Ratio Lower Upper

75 100

110 7.8 18.1 54.1#

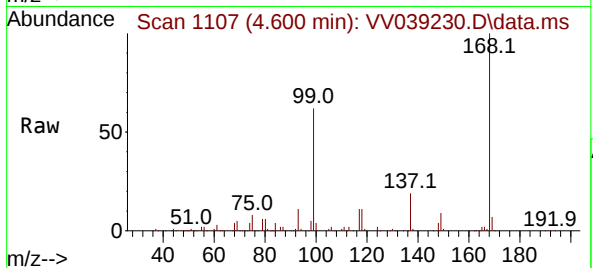
77 0.5 24.8 37.2#



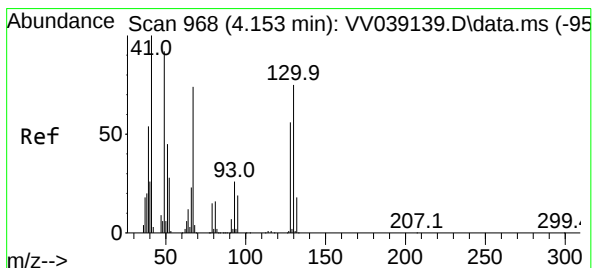
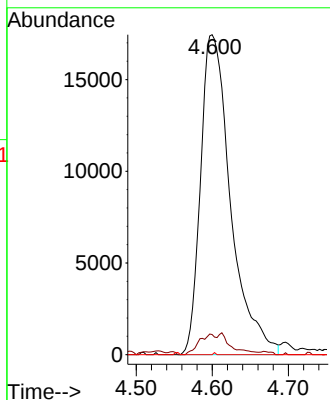
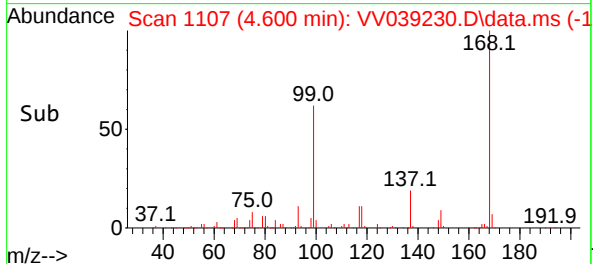


#38
Carbon Tetrachloride
Concen: 4.000 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Instrument :
MSVOA_V
ClientSampleId :

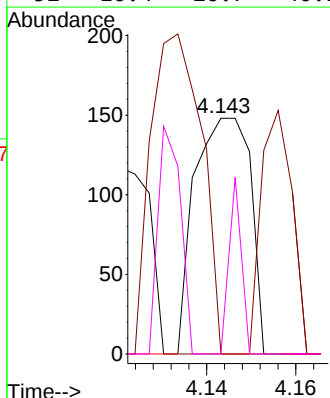
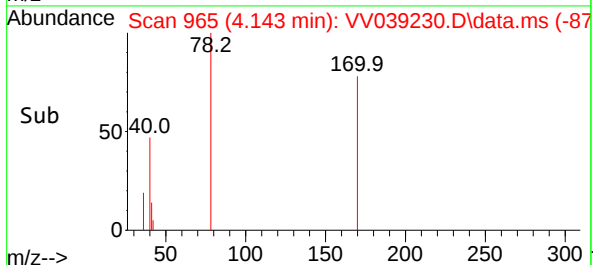
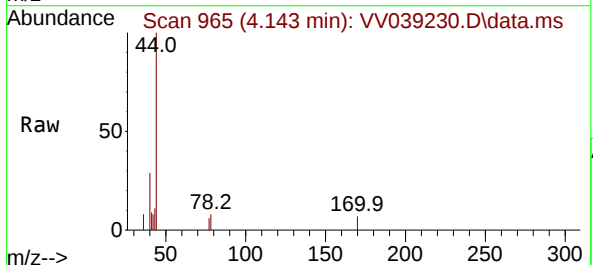


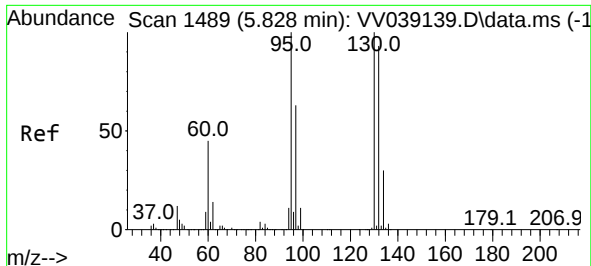
Tgt Ion:117 Resp: 47858
Ion Ratio Lower Upper
117 100
119 6.3 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.933 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.010 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 41 Resp: 128
Ion Ratio Lower Upper
41 100
39 57.8 42.2 63.2
67 0.0 67.9 101.9#
52 16.4 26.7 40.1#

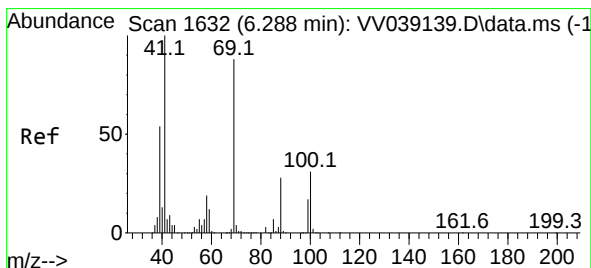
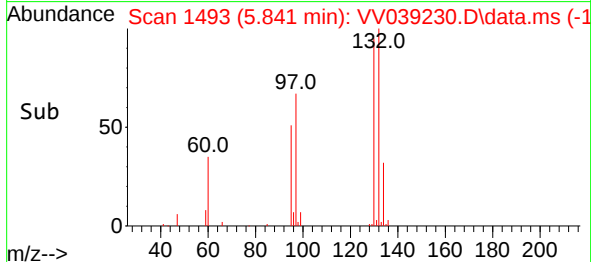
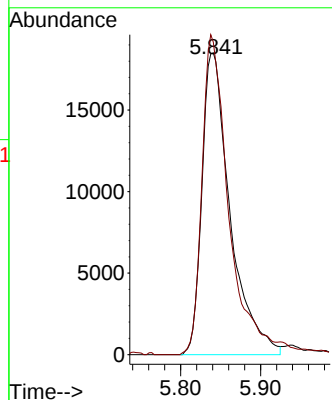
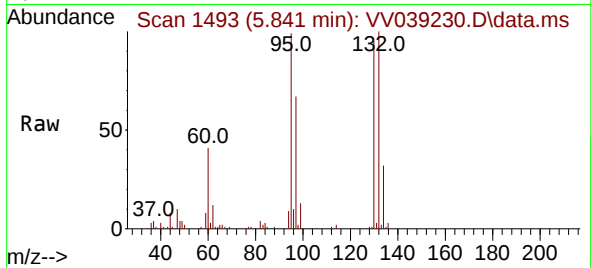




#44
Trichloroethene
Concen: 6.176 ug/l
RT: 5.841 min Scan# 1489
Delta R.T. 0.013 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

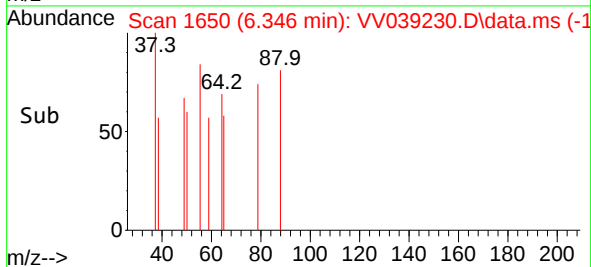
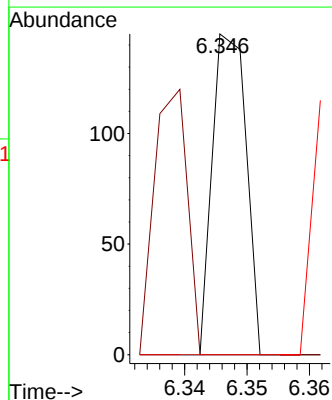
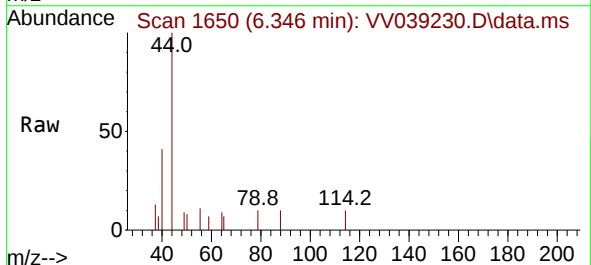
Instrument :
MSVOA_V
ClientSampleId :

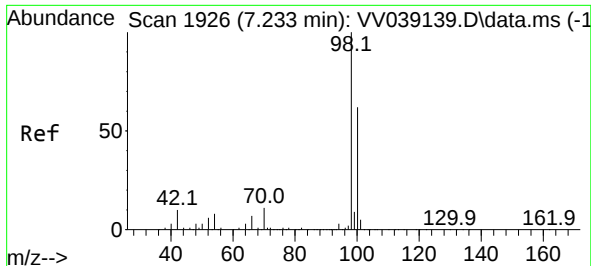
Tgt Ion:130 Resp: 45433
Ion Ratio Lower Upper
130 100
95 103.5 0.0 199.2



#49
1,4-Dioxane
Concen: 0.464 ug/l
RT: 6.346 min Scan# 1650
Delta R.T. 0.058 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 80.0 25.1 37.7#
58 81.8 53.6 80.4#





#50

Toluene-d8

Concen: 45.161 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV039230.D

Acq: 29 Sep 2025 14:38

Instrument :

MSVOA_V

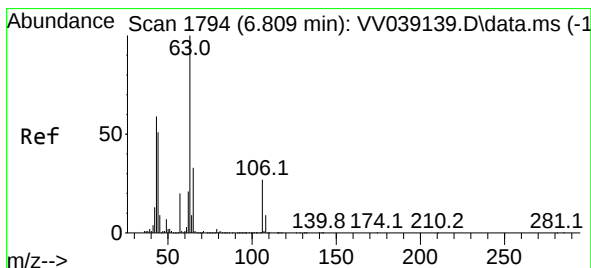
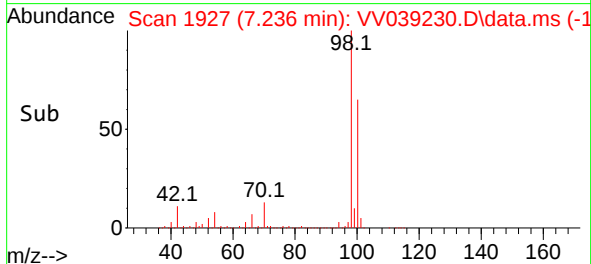
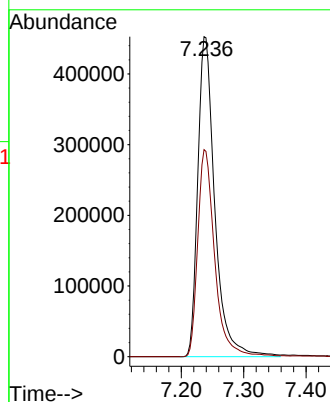
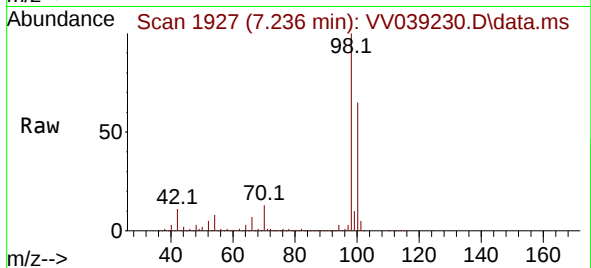
ClientSampleId :

Tgt Ion: 98 Resp: 858799

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.635 ug/l

RT: 6.854 min Scan# 1808

Delta R.T. 0.045 min

Lab File: VV039230.D

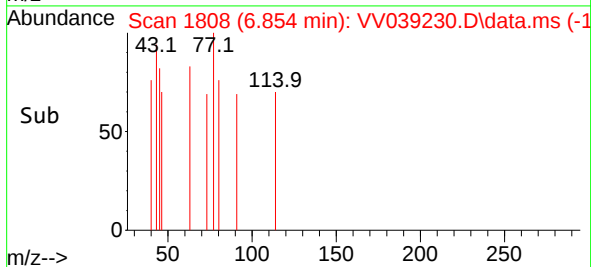
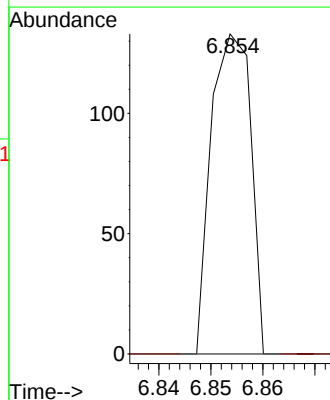
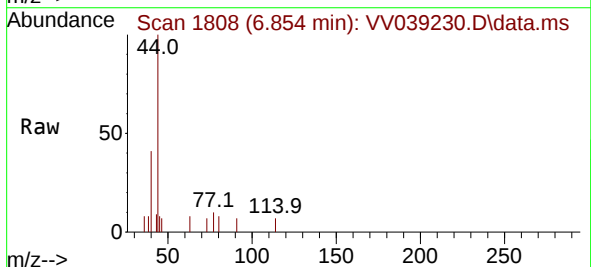
Acq: 29 Sep 2025 14:38

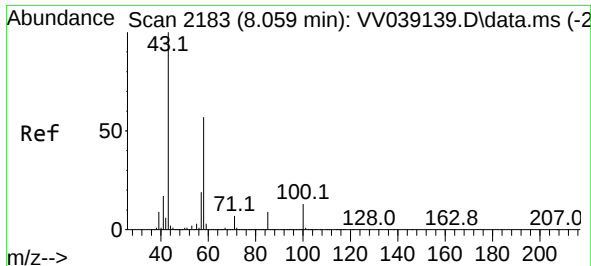
Tgt Ion: 63 Resp: 70

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.341 ug/l

RT: 7.815 min Scan# 2183

Delta R.T. -0.244 min

Lab File: VV039230.D

Acq: 29 Sep 2025 14:38

Instrument :

MSVOA_V

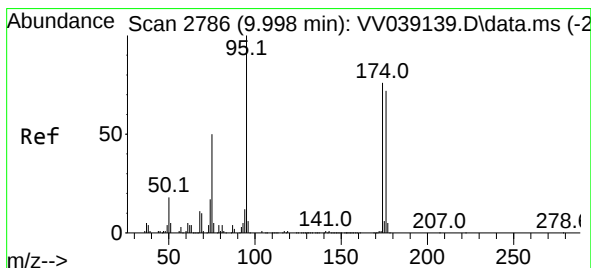
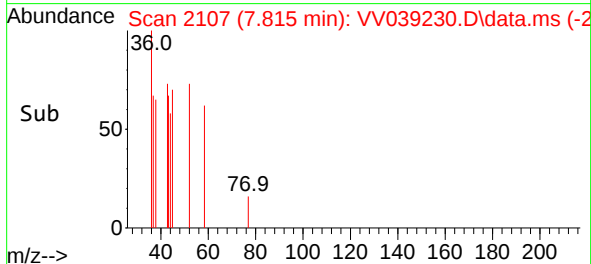
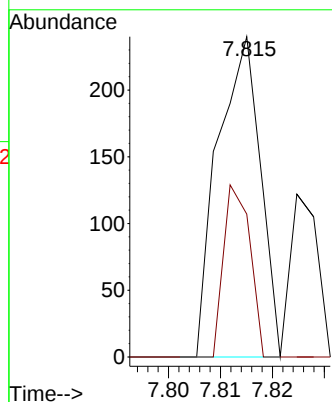
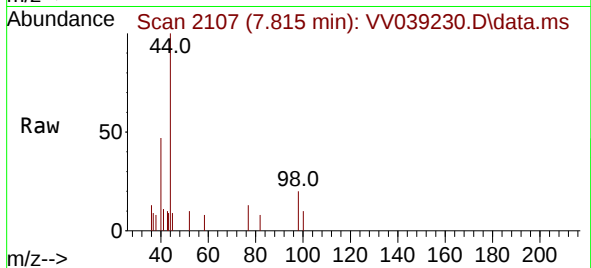
ClientSampleId :

Tgt Ion: 43 Resp: 136

Ion Ratio Lower Upper

43 100

58 33.8 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 44.775 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039230.D

Acq: 29 Sep 2025 14:38

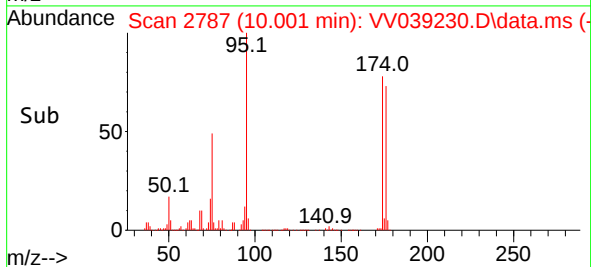
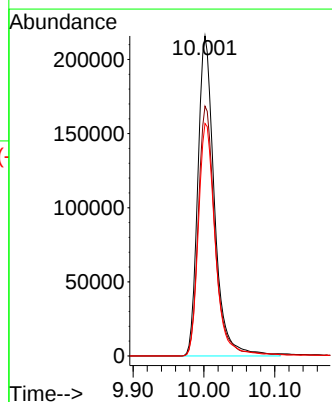
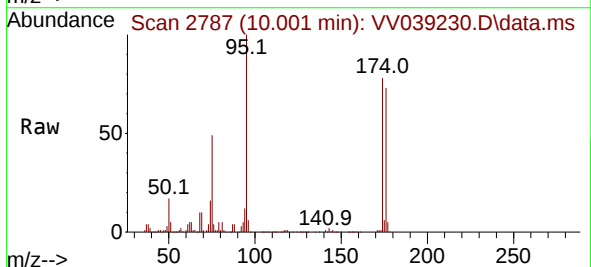
Tgt Ion: 95 Resp: 350525

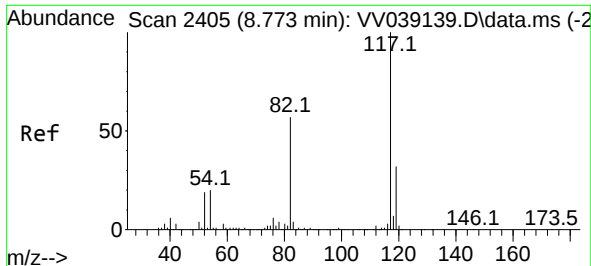
Ion Ratio Lower Upper

95 100

174 79.0 0.0 150.4

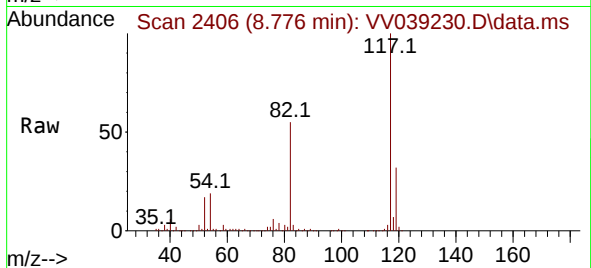
176 73.7 0.0 144.2



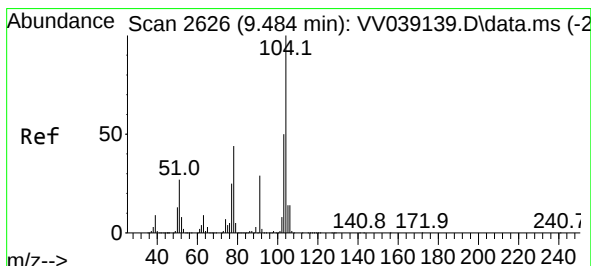
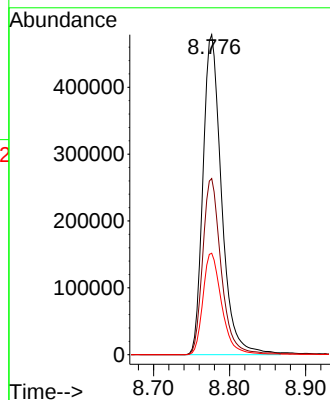
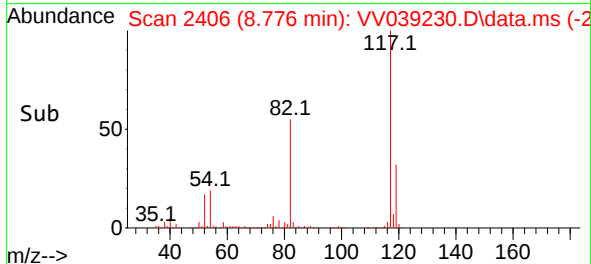


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

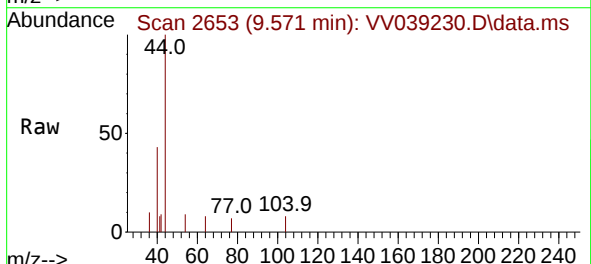
Instrument :
MSVOA_V
ClientSampleId :



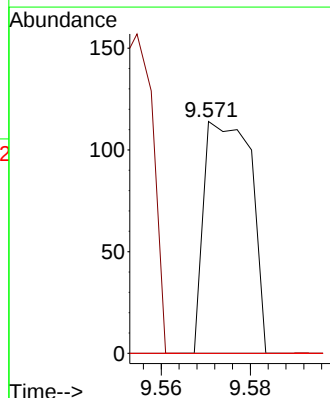
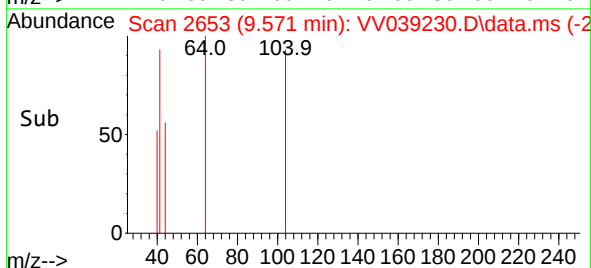
Tgt Ion:117 Resp: 812071
Ion Ratio Lower Upper
117 100
82 55.1 45.4 68.2
119 31.7 25.6 38.4

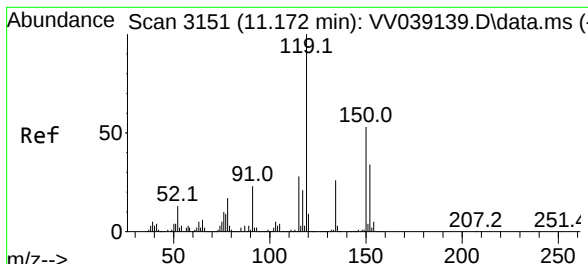


#70
Styrene
Concen: 1.565 ug/l
RT: 9.571 min Scan# 2653
Delta R.T. 0.087 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38



Tgt Ion:104 Resp: 84
Ion Ratio Lower Upper
104 100
78 98.8 39.8 59.6#
103 0.0 43.4 65.2#



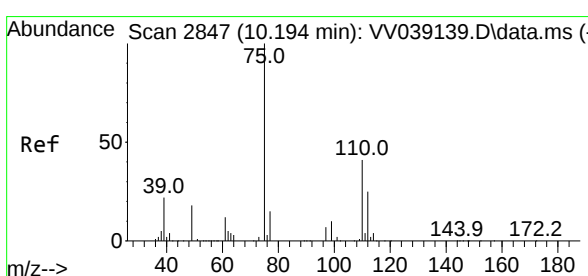
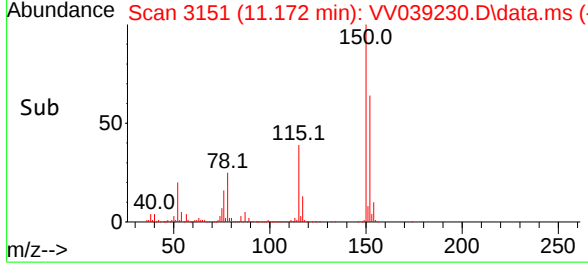
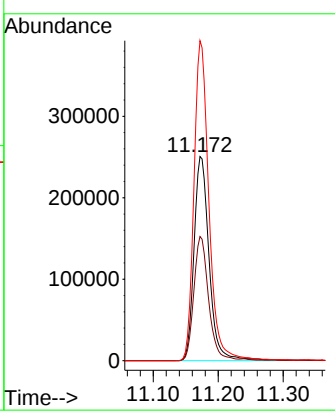
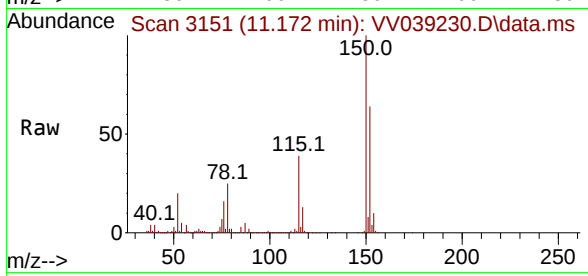


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.172 min Scan# 3151
 Delta R.T. -0.000 min
 Lab File: VV039230.D
 Acq: 29 Sep 2025 14:38

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion:152 Resp: 405371

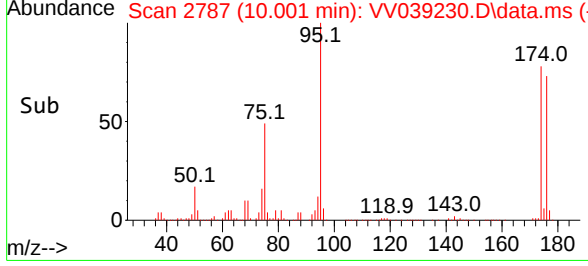
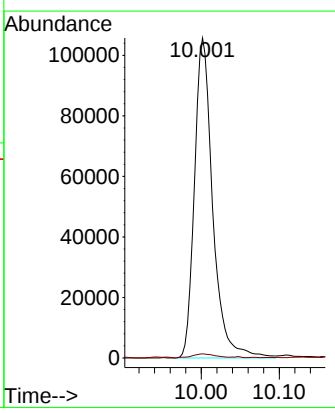
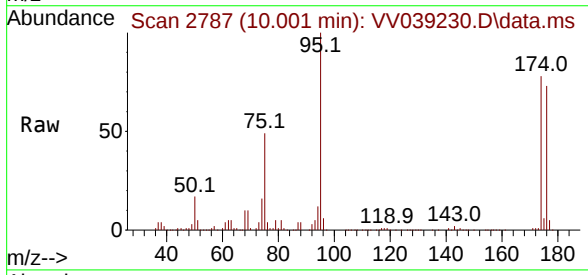
Ion	Ratio	Lower	Upper
152	100		
115	59.5	44.8	134.4
150	155.4	0.0	353.8

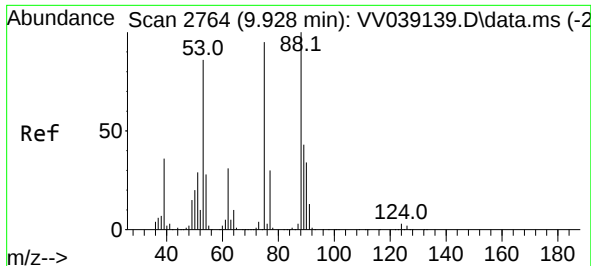


#76
 1,2,3-Trichloropropane
 Concen: 18.651 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039230.D
 Acq: 29 Sep 2025 14:38

Tgt Ion: 75 Resp: 172140

Ion	Ratio	Lower	Upper
75	100		
77	1.7	11.3	33.8#

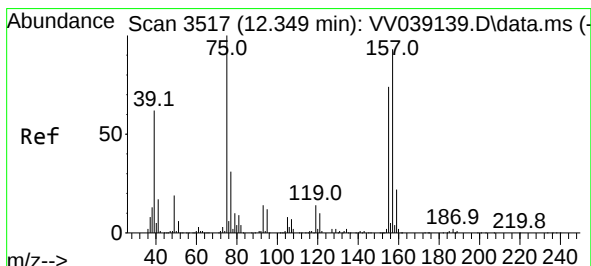
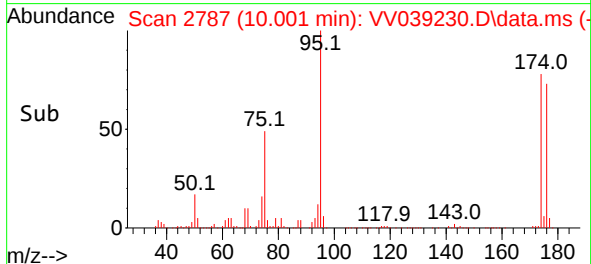
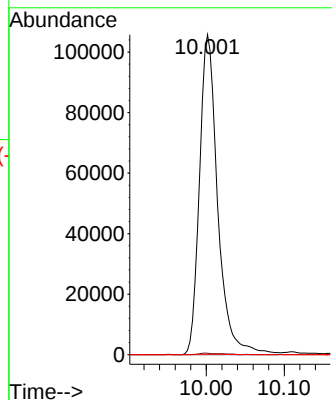
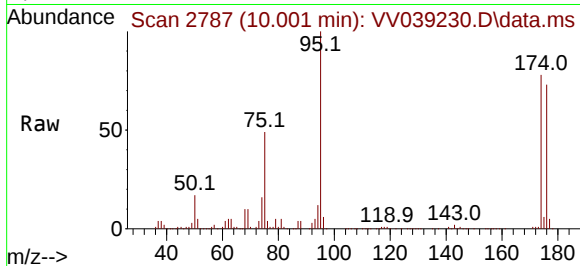




#81
 trans-1,4-Dichloro-2-butene
 Concen: 44.775 ug/l
 RT: 10.001 min Scan# 21
 Delta R.T. 0.074 min
 Lab File: VV039230.D
 Acq: 29 Sep 2025 14:38

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion: 75 Resp: 172140
 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: 12.339 min Scan# 3514
 Delta R.T. -0.010 min
 Lab File: VV039230.D
 Acq: 29 Sep 2025 14:38

Tgt Ion: 75 Resp: 65
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

