

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020624\
 Data File : VU057826.D
 Acq On : 06 Feb 2024 17:42
 Operator : MD/SY
 Sample : P1174-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Feb 07 03:02:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U020524DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Feb 06 02:05:40 2024
 Response via : Initial Calibration

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

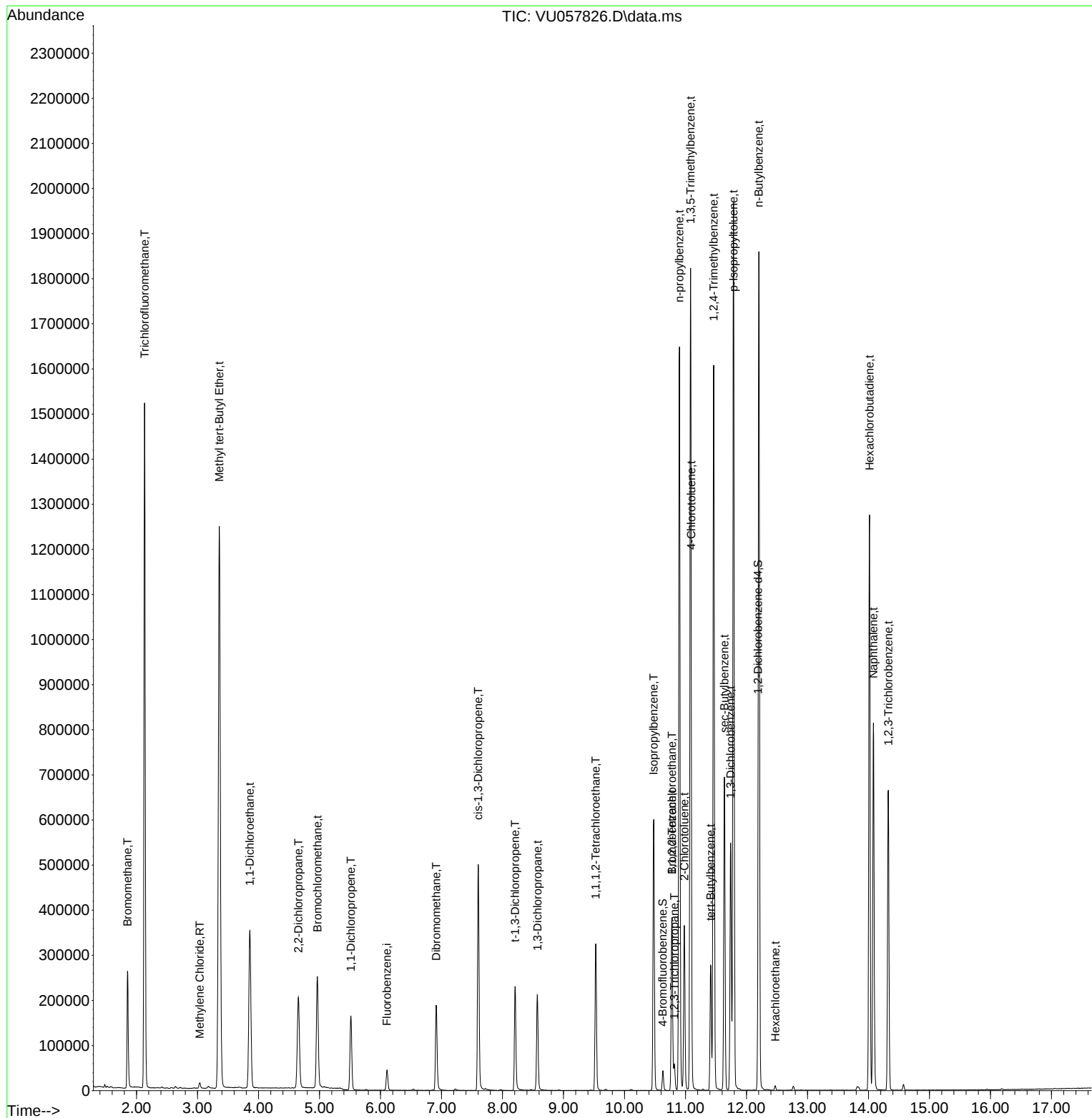
Internal Standards						
1) Fluorobenzene	6.107	96	40440	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	15024	1.012	ug/l	0.00
Spiked Amount	1.000		Recovery	=	101.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	14086	1.073	ug/l	0.00
Spiked Amount	1.000		Recovery	=	107.000%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.853	94	121748	15.381	ug/l	100
7) Trichlorofluoromethane	2.133	101	967613	48.745	ug/l	99
15) Methylene Chloride	3.036	84	5525	0.442	ug/l	95
17) 1,1-Dichloroethane	3.859	63	404596	19.060	ug/l	98
21) 2,2-Dichloropropane	4.653	77	153358	8.023	ug/l	# 90
25) Methyl tert-Butyl Ether	3.358	73	1406673	56.749	ug/l	96
26) Bromochloromethane	4.965	128	69019	15.244	ug/l	85
29) 1,1-Dichloropropene	5.515	75	88098	5.590	ug/l	96
43) Dibromomethane	6.914	93	78635	14.349	ug/l	94
50) t-1,3-Dichloropropene	8.206	75	128599	9.494	ug/l	99
51) cis-1,3-Dichloropropene	7.602	75	285420	16.892	ug/l	94
53) 1,3-Dichloropropane	8.573	76	125033	9.130	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.528	131	83315	8.099	ug/l	96
62) Hexachloroethane	12.473	117	1809	0.206	ug/l	98
69) Isopropylbenzene	10.479	105	375745	7.205	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.778	83	31739	3.495	ug/l	99
71) 1,2,3-Trichloropropane	10.817	75	22228	2.769	ug/l	# 58
72) Bromobenzene	10.778	156	83649	7.487	ug/l	93
73) n-propylbenzene	10.901	120	271616	19.965	ug/l	99
74) 2-Chlorotoluene	10.981	126	63609	5.352	ug/l	91
75) 1,3,5-Trimethylbenzene	11.084	105	904827	20.530	ug/l	98
76) 4-Chlorotoluene	11.094	126	33846	2.828	ug/l	1
77) tert-Butylbenzene	11.412	119	127919	3.012	ug/l	90
78) 1,2,4-Trimethylbenzene	11.463	105	876442	19.658	ug/l	99
79) sec-Butylbenzene	11.637	105	457739	8.161	ug/l	99
81) p-Isopropyltoluene	11.788	119	1067100	23.139	ug/l	98
82) 1,3-Dichlorobenzene	11.740	146	205985	9.224	ug/l	98
84) n-Butylbenzene	12.203	91	1001441	22.756	ug/l	99
88) Hexachlorobutadiene	14.016	225	207494	26.147	ug/l	99
89) Naphthalene	14.081	128	614117	27.695	ug/l	99
90) 1,2,3-Trichlorobenzene	14.325	180	190531	17.535	ug/l	99

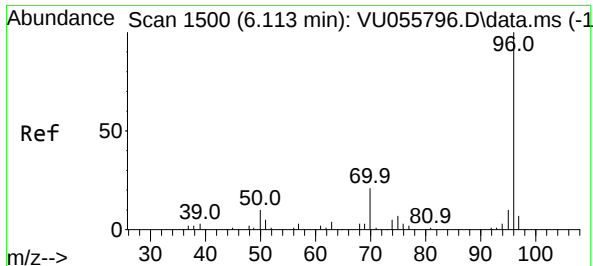
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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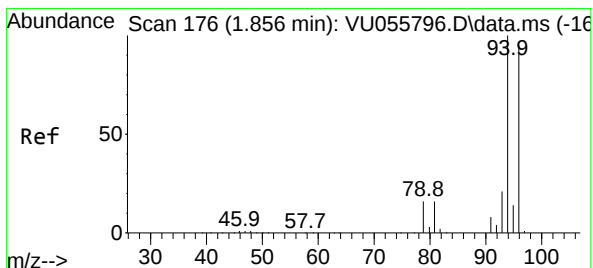
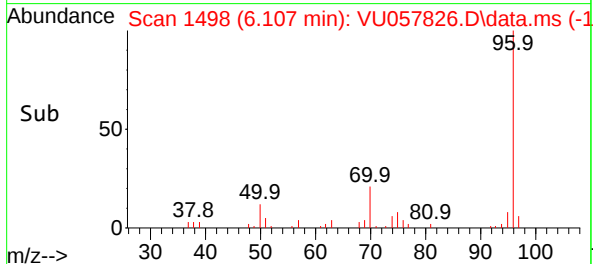
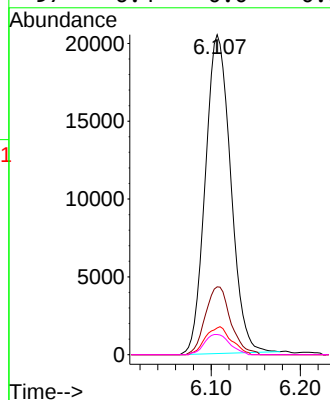
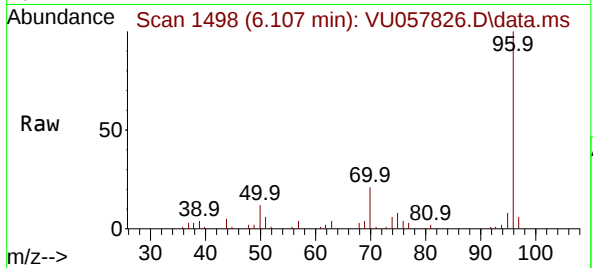




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 14
Delta R.T. 0.004 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

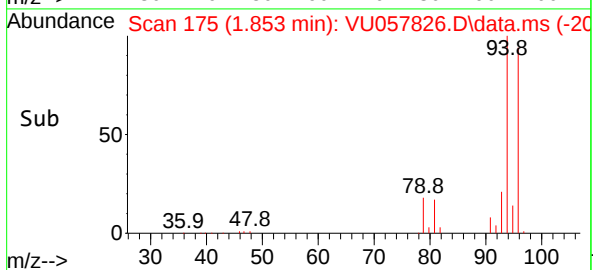
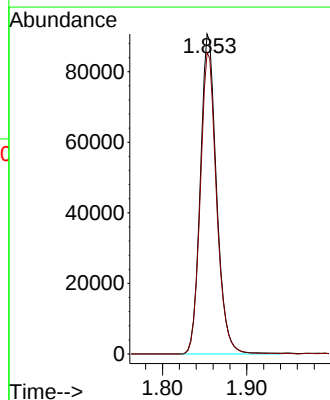
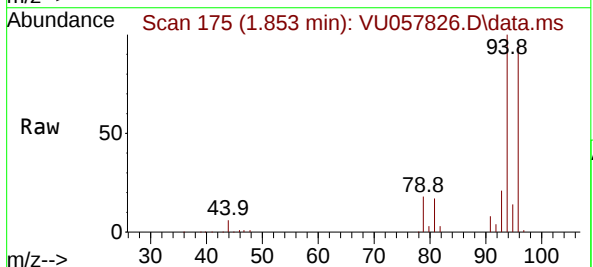
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

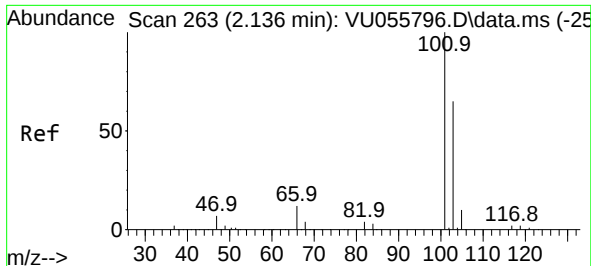
Tgt Ion: 96	Resp: 40440
Ion Ratio	Lower Upper
96	100
70	21.2 16.5 24.7
95	8.9 7.4 11.0
97	6.4 0.0 0.0



#5
Bromomethane
Concen: 15.381 ug/l
RT: 1.853 min Scan# 175
Delta R.T. -0.003 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion: 94	Resp: 121748
Ion Ratio	Lower Upper
94	100
96	94.2 75.4 113.2

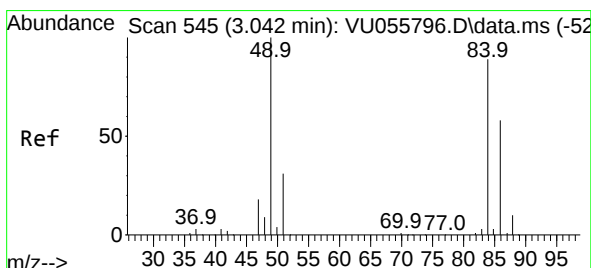
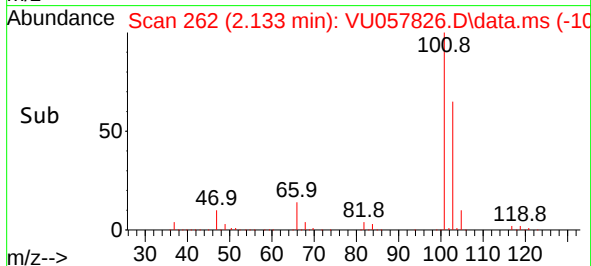
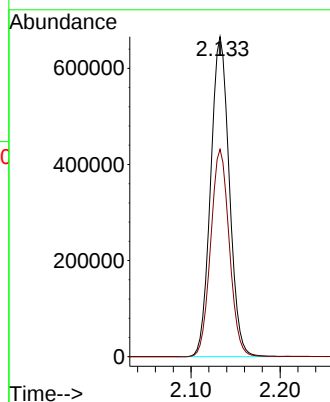
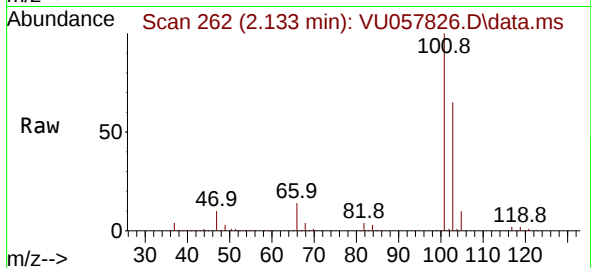




#7
Trichlorofluoromethane
Concen: 48.745 ug/l
RT: 2.133 min Scan# 20
Delta R.T. 0.016 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

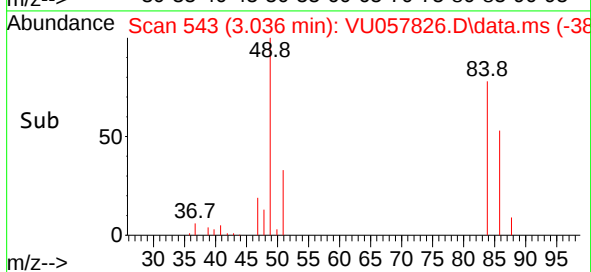
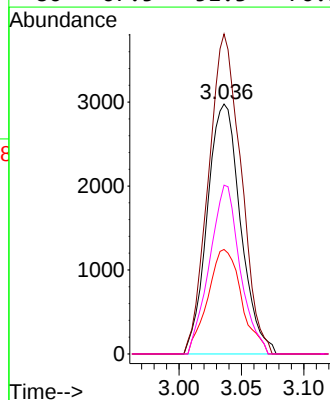
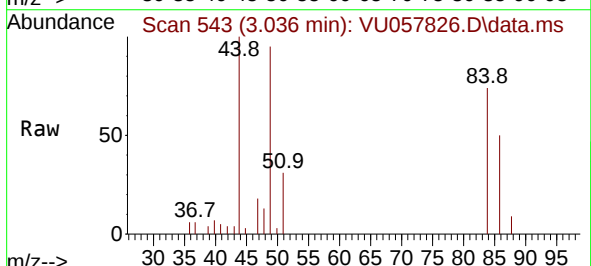
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

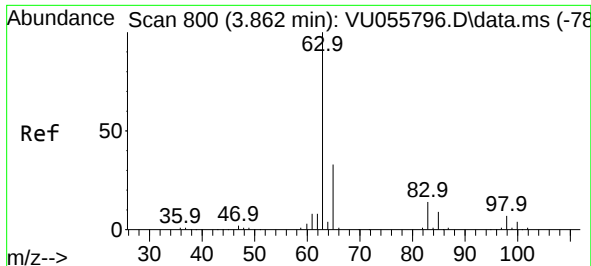
Tgt Ion:101 Resp: 967613
Ion Ratio Lower Upper
101 100
103 64.8 51.4 77.0



#15
Methylene Chloride
Concen: 0.442 ug/l
RT: 3.036 min Scan# 543
Delta R.T. 0.010 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion: 84 Resp: 5525
Ion Ratio Lower Upper
84 100
49 128.1 98.9 148.3
51 41.8 0.0 75.4
86 67.5 51.3 76.9





#17

1,1-Dichloroethane

Concen: 19.060 ug/l

RT: 3.859 min Scan# 799

Delta R.T. 0.010 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

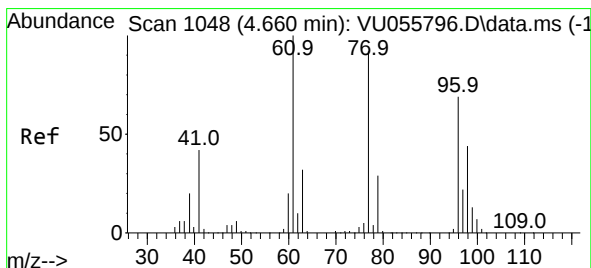
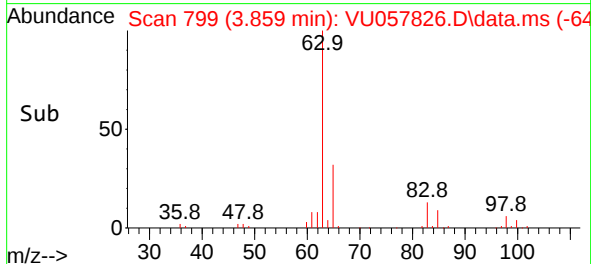
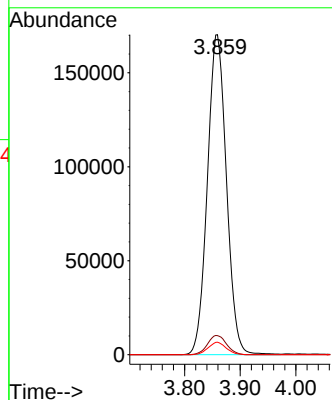
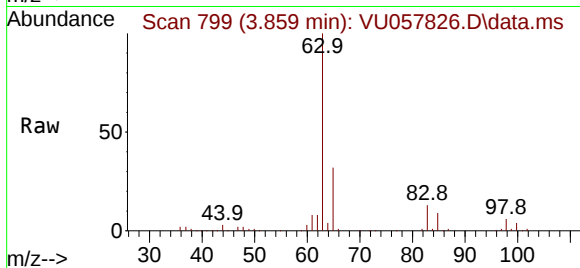
Tgt Ion: 63 Resp: 404596

Ion Ratio Lower Upper

63 100

98 6.0 3.4 10.1

100 3.9 2.2 6.6



#21

2,2-Dichloropropane

Concen: 8.023 ug/l

RT: 4.653 min Scan# 1046

Delta R.T. 0.007 min

Lab File: VU057826.D

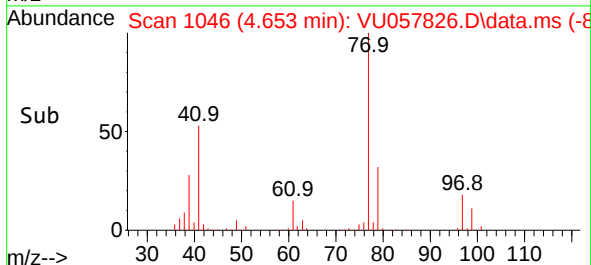
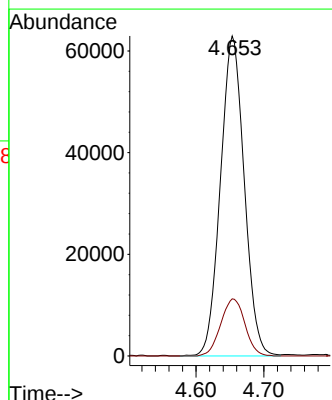
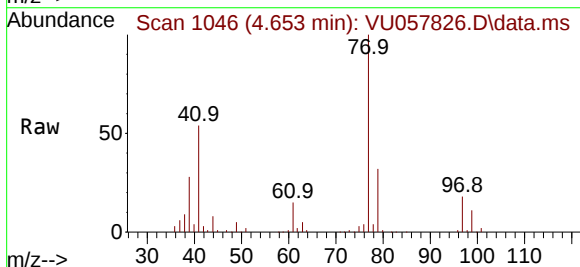
Acq: 06 Feb 2024 17:42

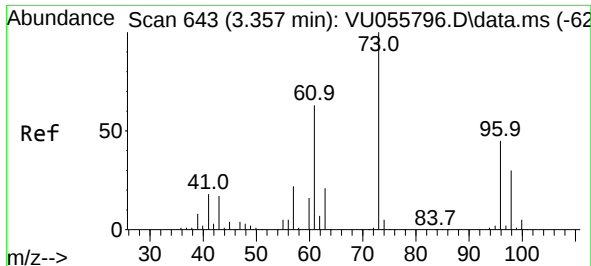
Tgt Ion: 77 Resp: 153358

Ion Ratio Lower Upper

77 100

97 18.1 18.4 27.6#

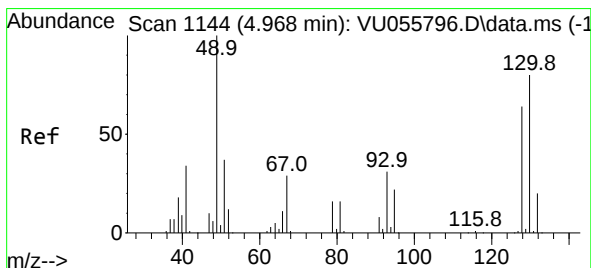
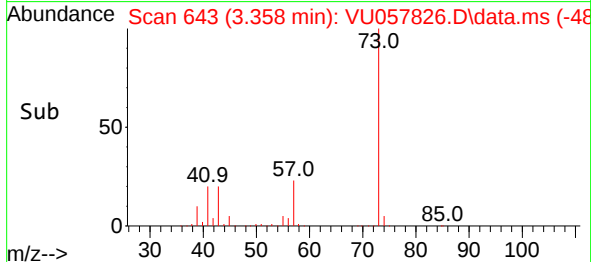
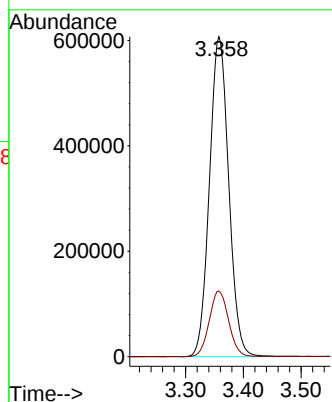
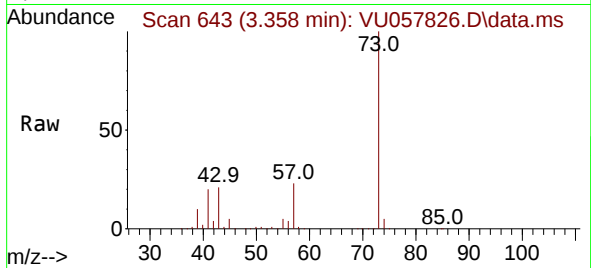




#25
Methyl tert-Butyl Ether
Concen: 56.749 ug/l
RT: 3.358 min Scan# 64
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

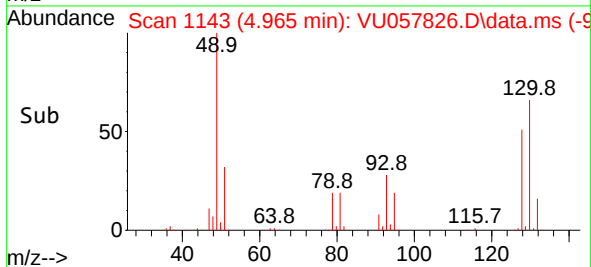
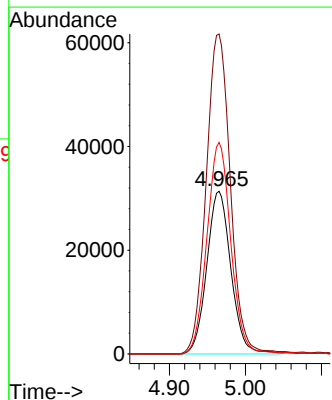
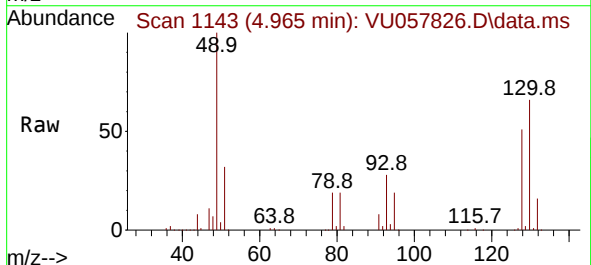
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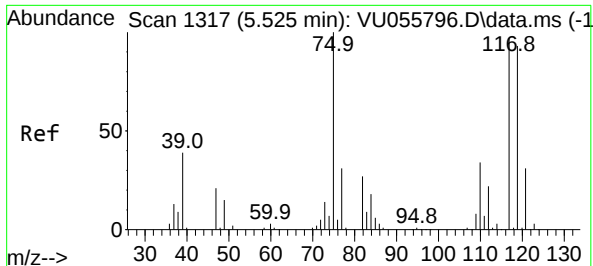
Tgt Ion: 73 Resp: 1406673
Ion Ratio Lower Upper
73 100
43 20.6 15.0 22.6



#26
Bromochloromethane
Concen: 15.244 ug/l
RT: 4.965 min Scan# 1143
Delta R.T. 0.007 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion: 128 Resp: 69019
Ion Ratio Lower Upper
128 100
49 197.6 0.0 324.6
130 129.0 103.0 154.4





#29

1,1-Dichloropropene

Concen: 5.590 ug/l

RT: 5.515 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

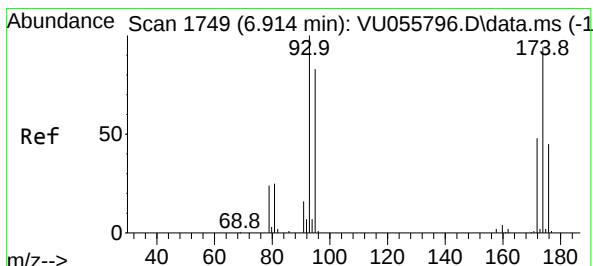
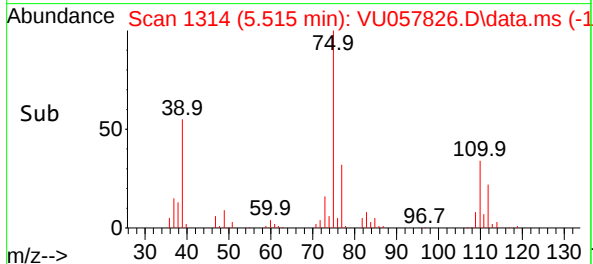
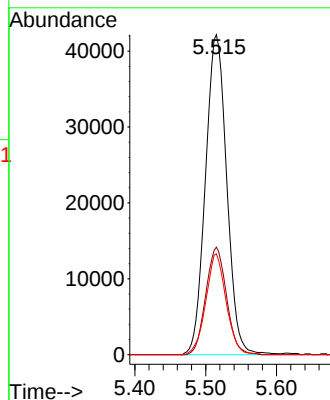
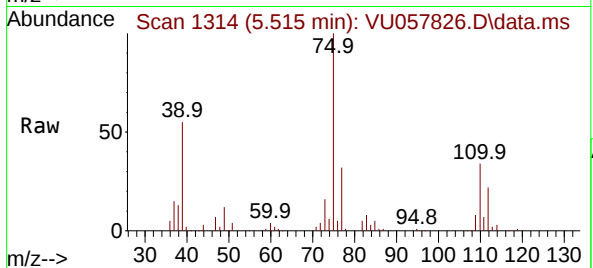
Tgt Ion: 75 Resp: 88098

Ion Ratio Lower Upper

75 100

110 32.6 18.0 54.0

77 30.1 24.7 37.1



#43

Dibromomethane

Concen: 14.349 ug/l

RT: 6.914 min Scan# 1749

Delta R.T. 0.003 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

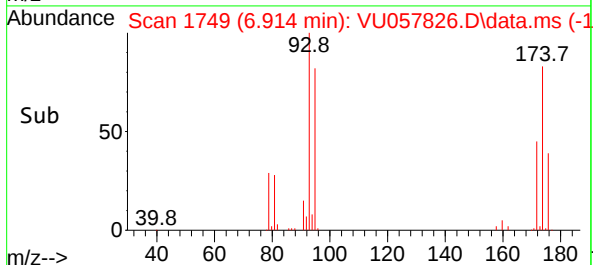
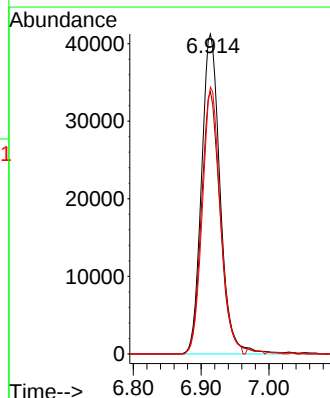
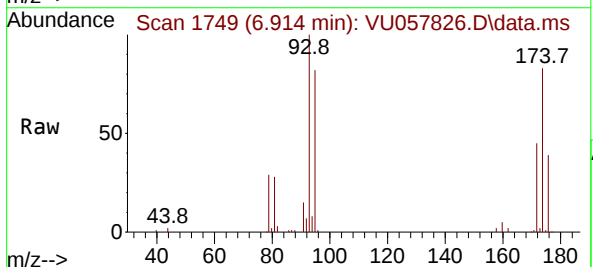
Tgt Ion: 93 Resp: 78635

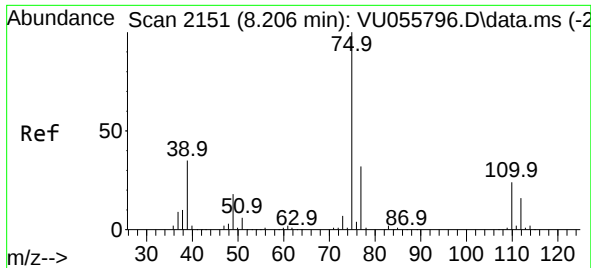
Ion Ratio Lower Upper

93 100

95 83.1 67.0 100.6

174 81.1 73.8 110.6

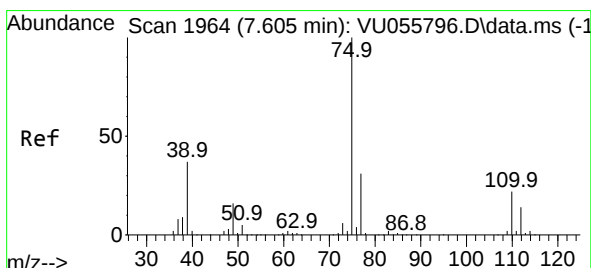
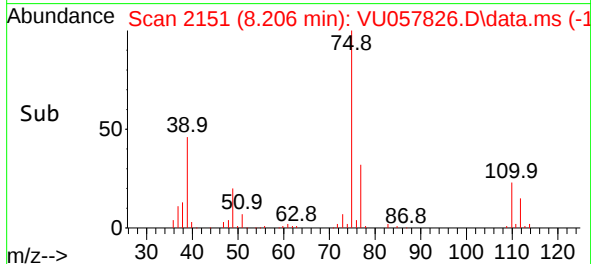
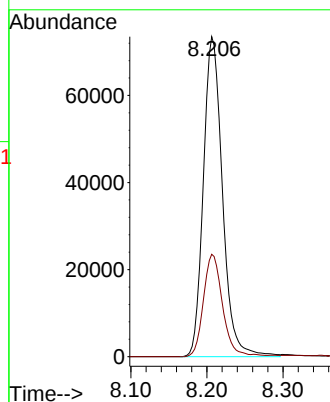
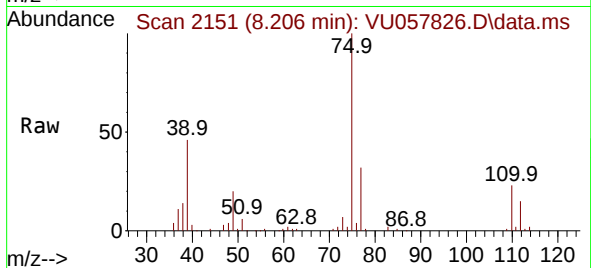




#50
 t-1,3-Dichloropropene
 Concen: 9.494 ug/l
 RT: 8.206 min Scan# 2151
 Delta R.T. 0.000 min
 Lab File: VU057826.D
 Acq: 06 Feb 2024 17:42

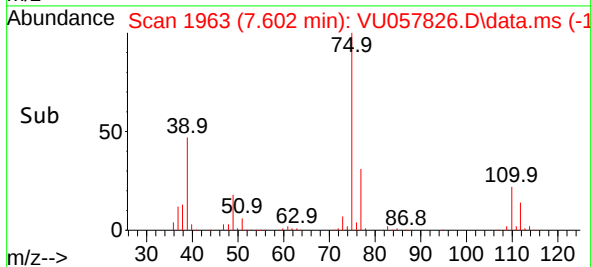
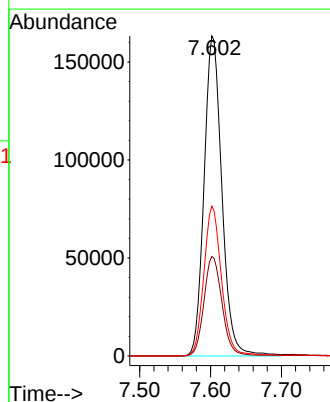
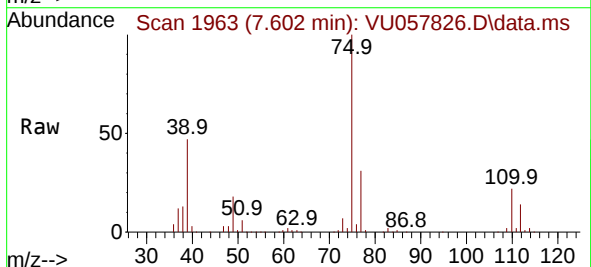
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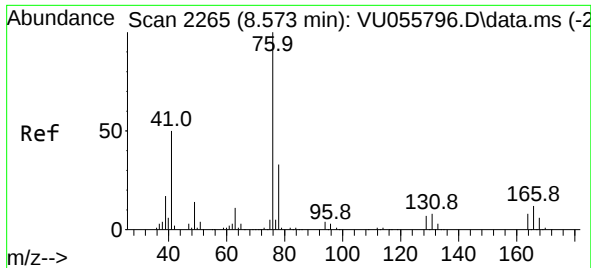
Tgt Ion: 75 Resp: 128599
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.3 37.9



#51
 cis-1,3-Dichloropropene
 Concen: 16.892 ug/l
 RT: 7.602 min Scan# 1963
 Delta R.T. 0.000 min
 Lab File: VU057826.D
 Acq: 06 Feb 2024 17:42

Tgt Ion: 75 Resp: 285420
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.7 38.5
 39 46.7 32.8 49.2





#53

1,3-Dichloropropane

Concen: 9.130 ug/l

RT: 8.573 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

Instrument :

MSVOA_U

ClientSampleId :

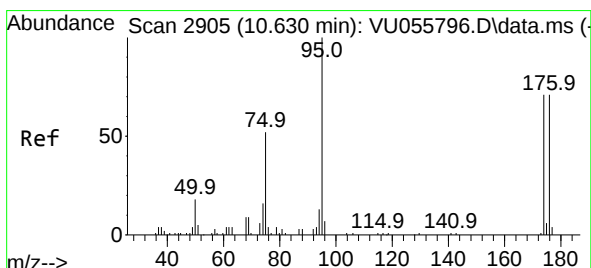
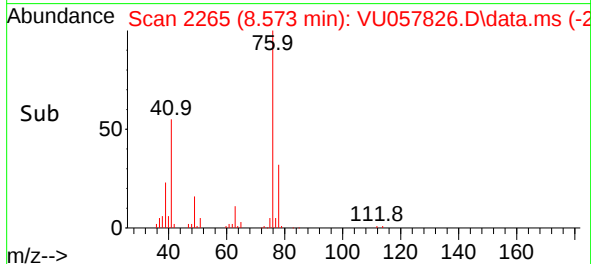
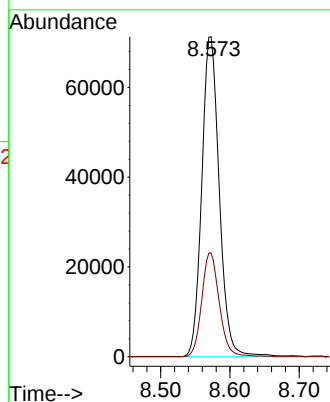
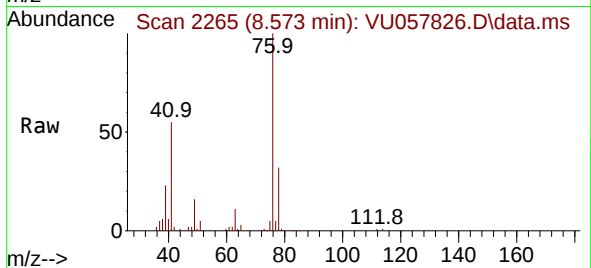
PT-UNRVOA-WS

Tgt Ion: 76 Resp: 125033

Ion Ratio Lower Upper

76 100

78 32.6 25.9 38.9



#57

4-Bromofluorobenzene

Concen: 1.012 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. -0.003 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

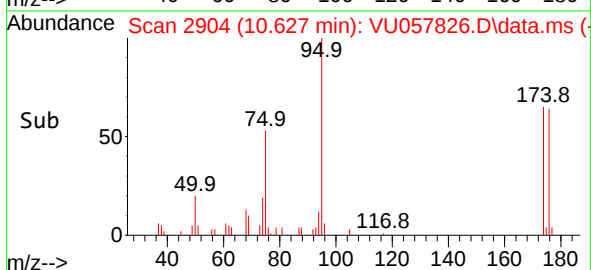
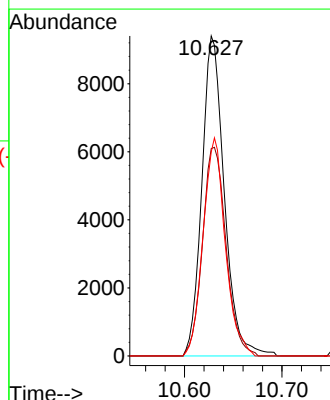
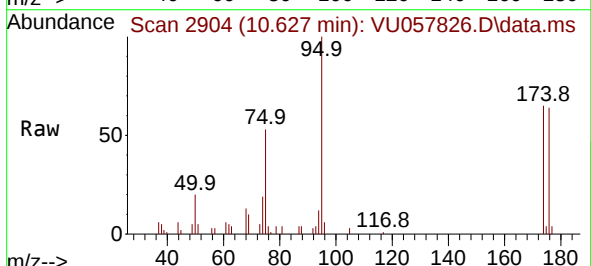
Tgt Ion: 95 Resp: 15024

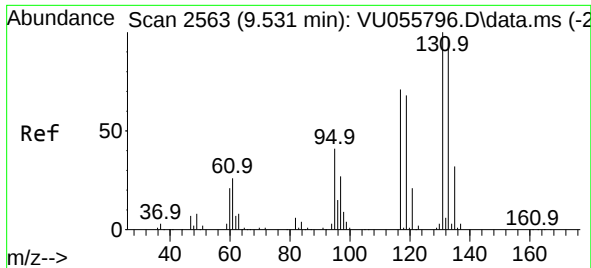
Ion Ratio Lower Upper

95 100

174 68.5 63.3 94.9

176 67.6 59.3 88.9

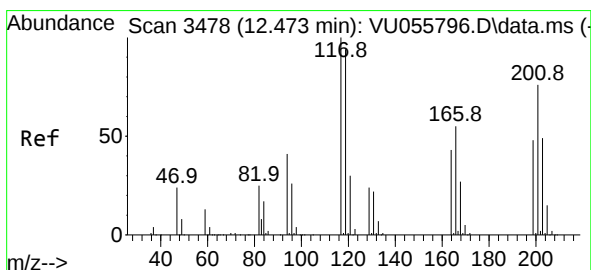
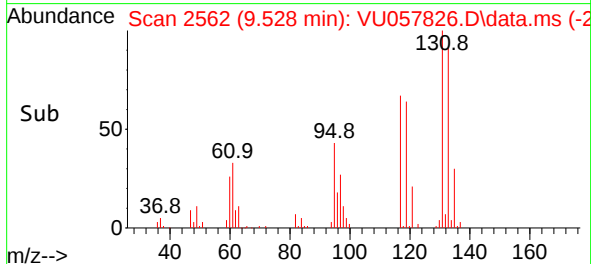
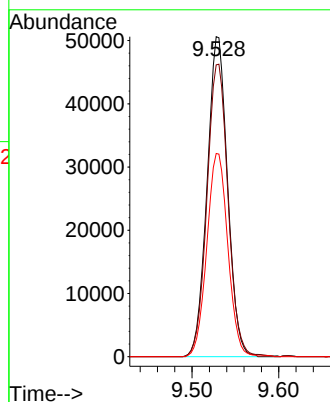
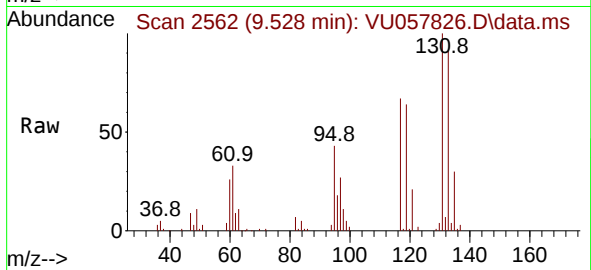




#60
1,1,1,2-Tetrachloroethane
Concen: 8.099 ug/l
RT: 9.528 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

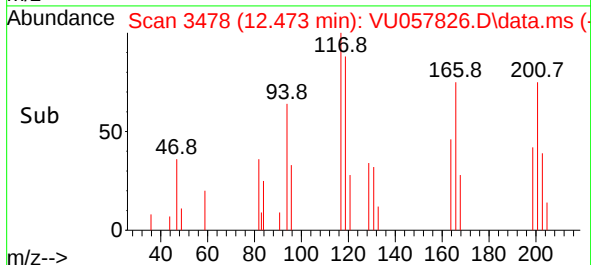
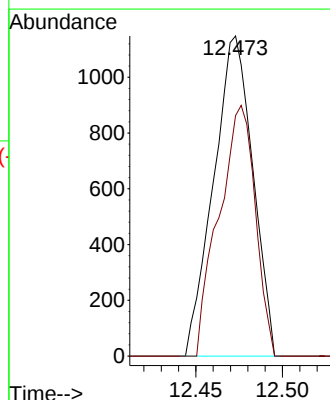
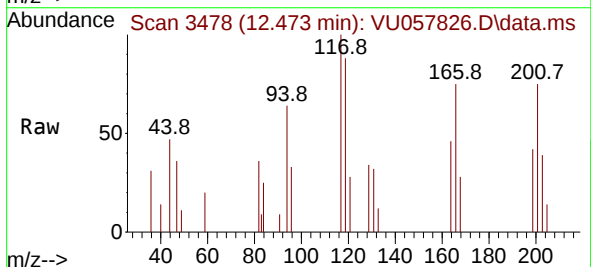
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

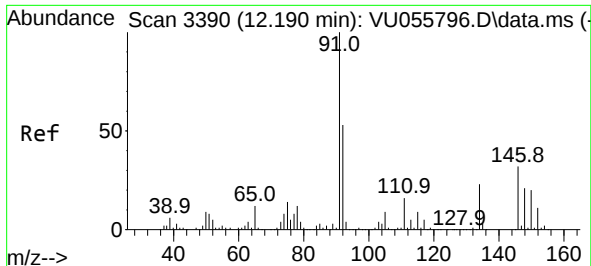
Tgt Ion:131 Resp: 83315
Ion Ratio Lower Upper
131 100
133 93.6 77.8 116.6
119 65.2 55.2 82.8



#62
Hexachloroethane
Concen: 0.206 ug/l
RT: 12.473 min Scan# 3478
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion:117 Resp: 1809
Ion Ratio Lower Upper
117 100
201 72.6 59.6 89.4

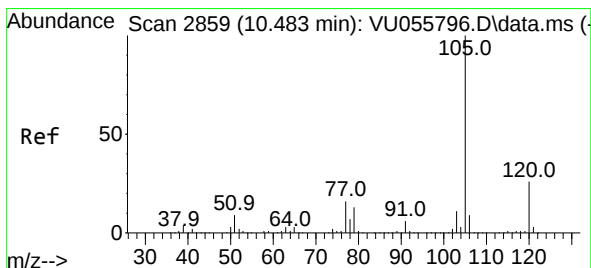
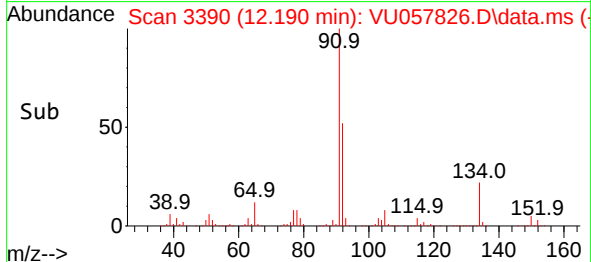
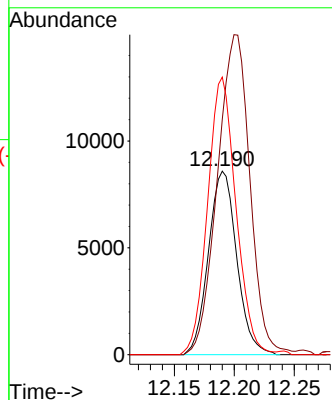
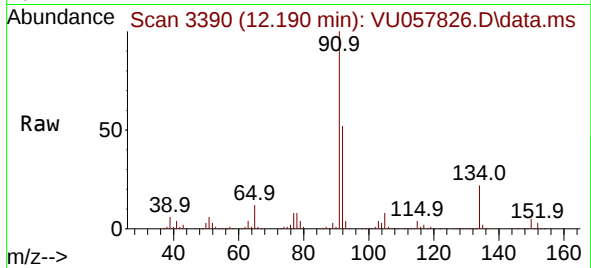




#68
1,2-Dichlorobenzene-d4
Concen: 1.073 ug/l
RT: 12.190 min Scan# 311
Delta R.T. -0.003 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

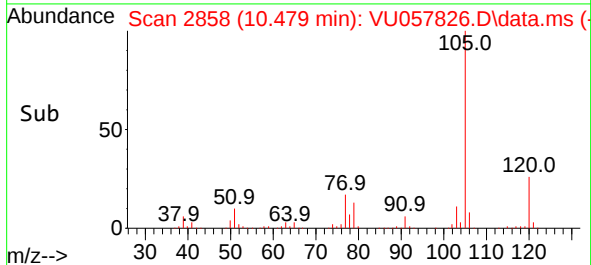
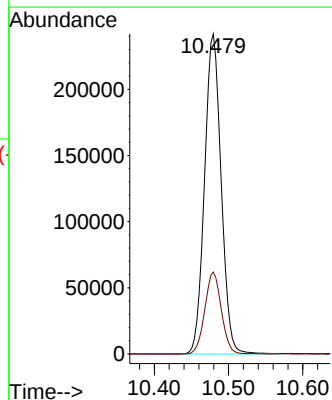
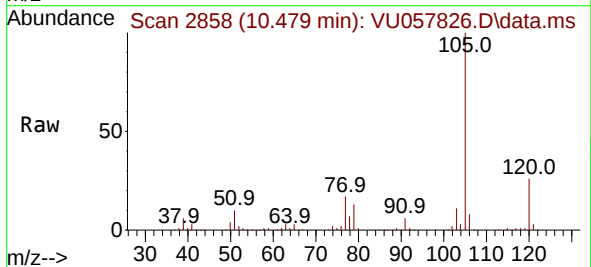
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

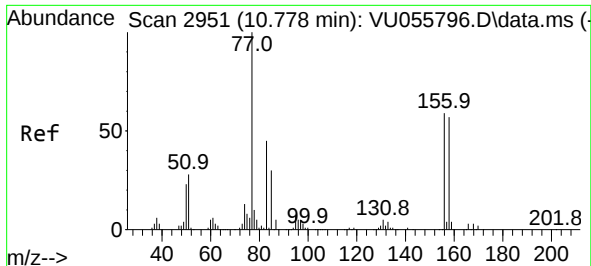
Tgt Ion:152 Resp: 14086
Ion Ratio Lower Upper
152 100
115 200.2 0.0 308.8
150 151.5 0.0 635.0



#69
Isopropylbenzene
Concen: 7.205 ug/l
RT: 10.479 min Scan# 2858
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion:105 Resp: 375745
Ion Ratio Lower Upper
105 100
120 25.4 12.8 38.4

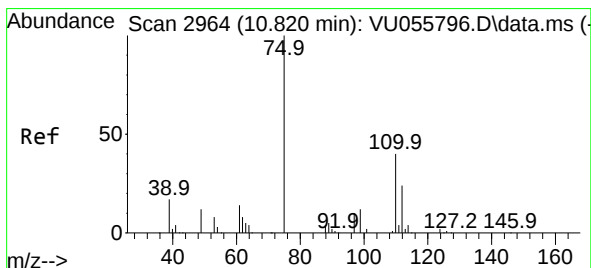
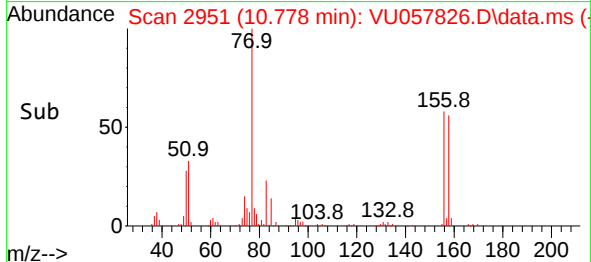
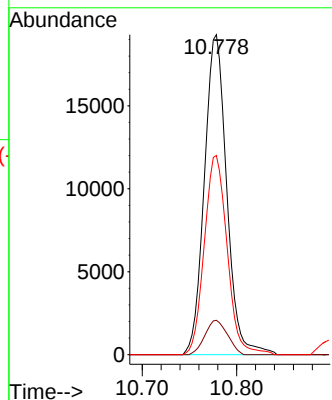
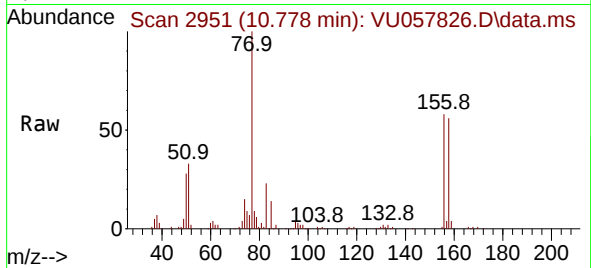




#70
 1,1,2-Tetrachloroethane
 Concen: 3.495 ug/l
 RT: 10.778 min Scan# 2951
 Delta R.T. -0.003 min
 Lab File: VU057826.D
 Acq: 06 Feb 2024 17:42

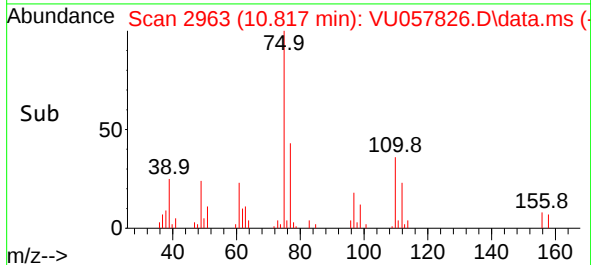
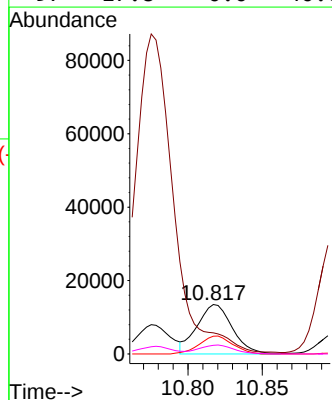
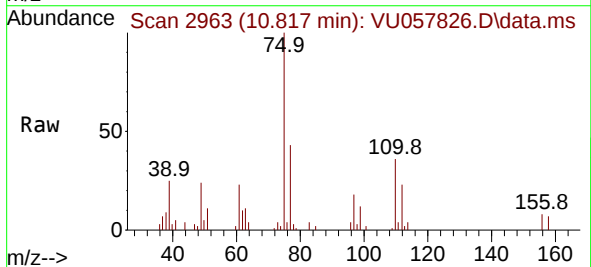
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

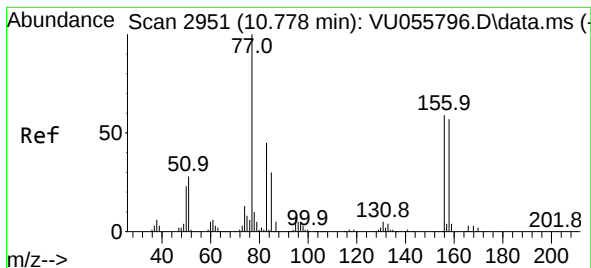
Tgt Ion: 83 Resp: 31739
 Ion Ratio Lower Upper
 83 100
 131 10.8 7.2 10.8
 85 63.6 50.5 75.7



#71
 1,2,3-Trichloropropane
 Concen: 2.769 ug/l
 RT: 10.817 min Scan# 2963
 Delta R.T. -0.016 min
 Lab File: VU057826.D
 Acq: 06 Feb 2024 17:42

Tgt Ion: 75 Resp: 22228
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 116.4
 110 34.1 0.0 74.6
 97 17.8 0.0 40.0





#72

Bromobenzene

Concen: 7.487 ug/l

RT: 10.778 min Scan# 2951

Delta R.T. 0.000 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

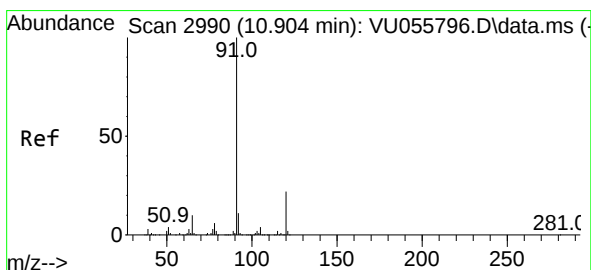
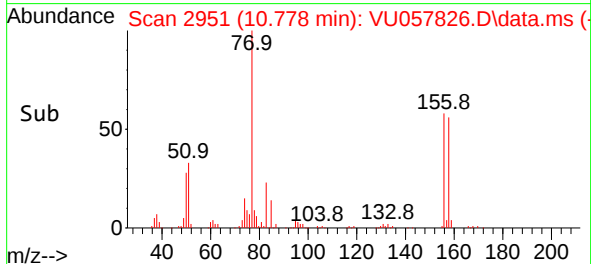
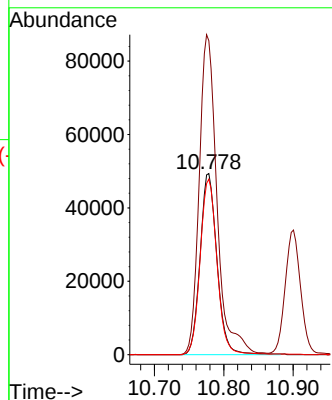
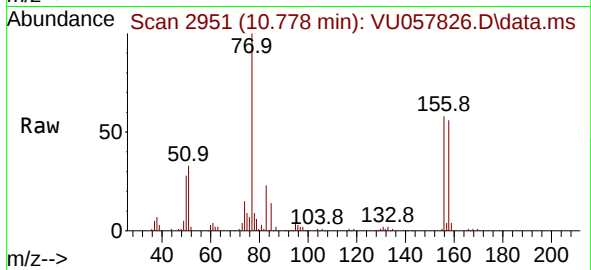
Tgt Ion:156 Resp: 83649

Ion Ratio Lower Upper

156 100

77 186.3 0.0 343.0

158 96.8 0.0 194.8



#73

n-propylbenzene

Concen: 19.965 ug/l

RT: 10.901 min Scan# 2989

Delta R.T. 0.000 min

Lab File: VU057826.D

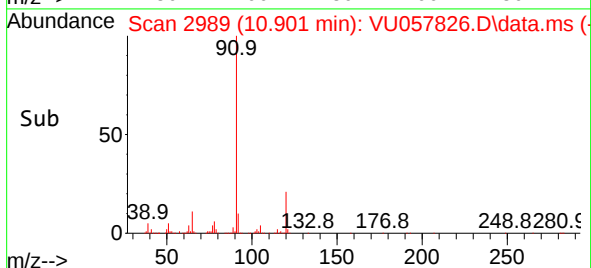
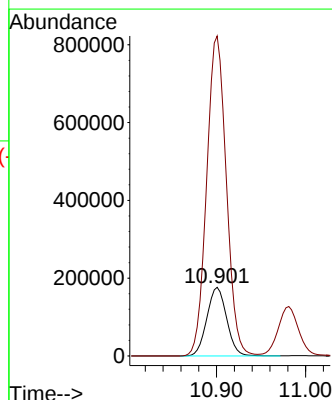
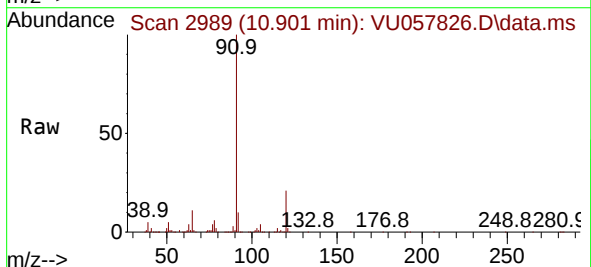
Acq: 06 Feb 2024 17:42

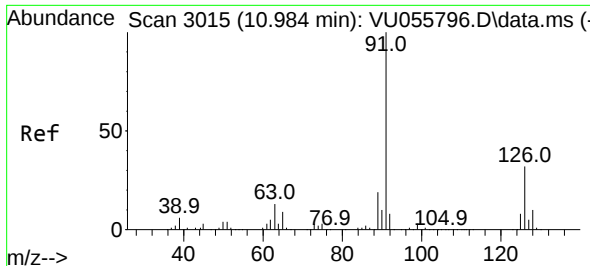
Tgt Ion:120 Resp: 271616

Ion Ratio Lower Upper

120 100

91 463.7 369.8 554.6

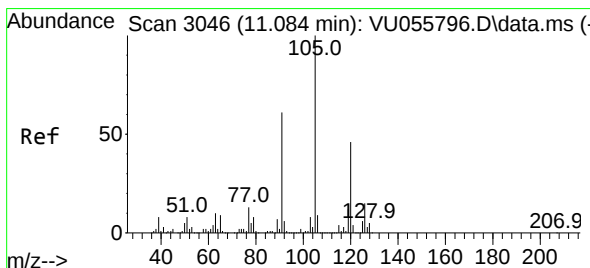
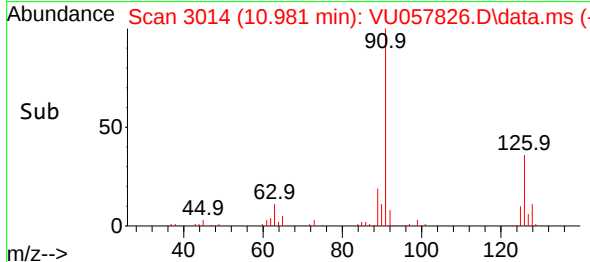
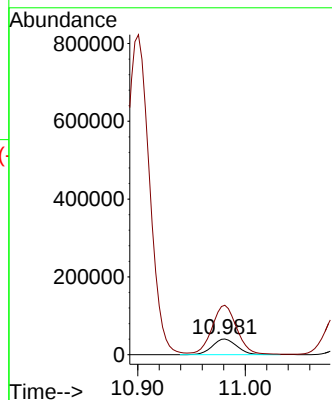
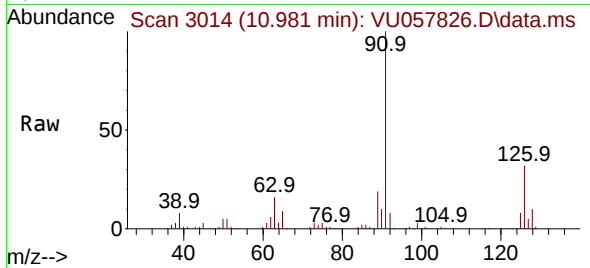




#74
2-Chlorotoluene
Concen: 5.352 ug/l
RT: 10.981 min Scan# 3015
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

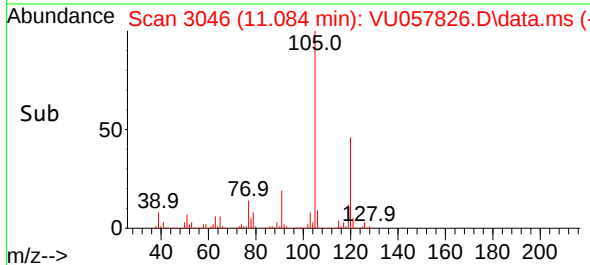
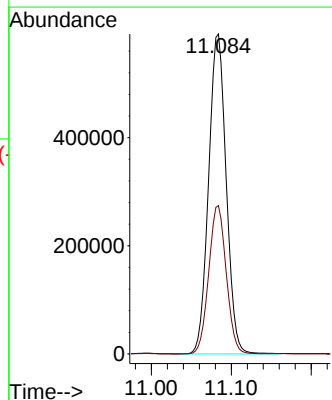
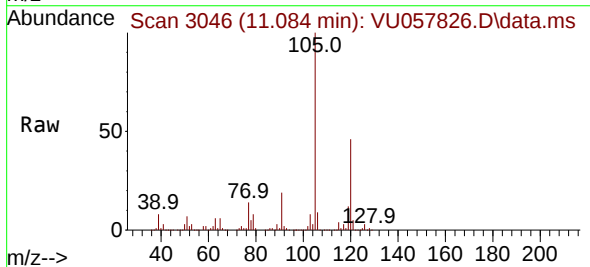
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

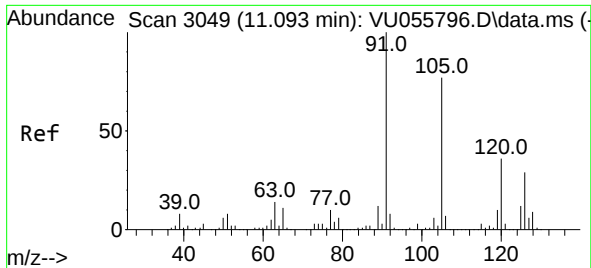
Tgt Ion:126 Resp: 63609
Ion Ratio Lower Upper
126 100
91 323.6 0.0 610.0



#75
1,3,5-Trimethylbenzene
Concen: 20.530 ug/l
RT: 11.084 min Scan# 3046
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion:105 Resp: 904827
Ion Ratio Lower Upper
105 100
120 46.2 37.8 56.8

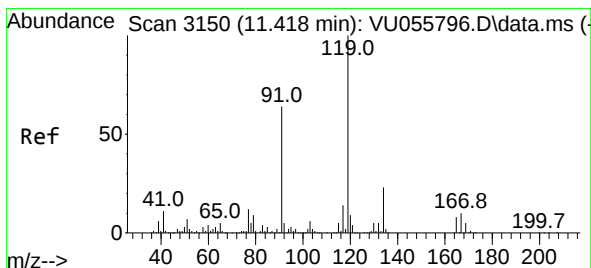
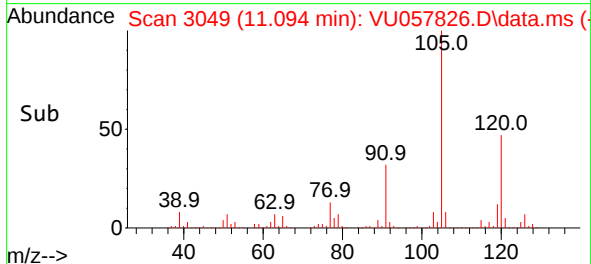
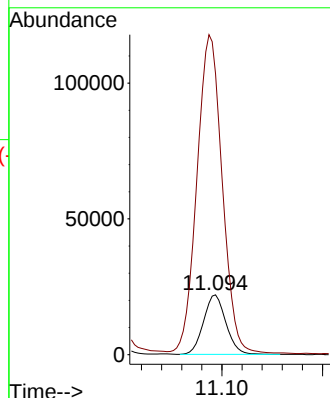
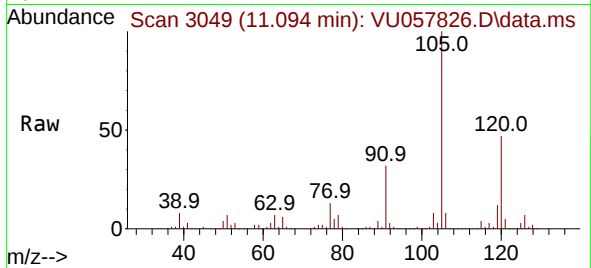




#76
4-Chlorotoluene
Concen: 2.828 ug/l
RT: 11.094 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

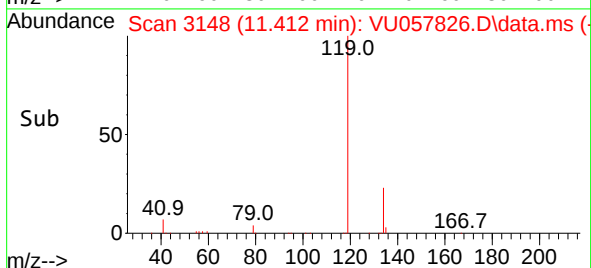
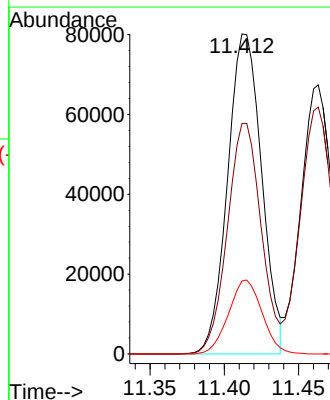
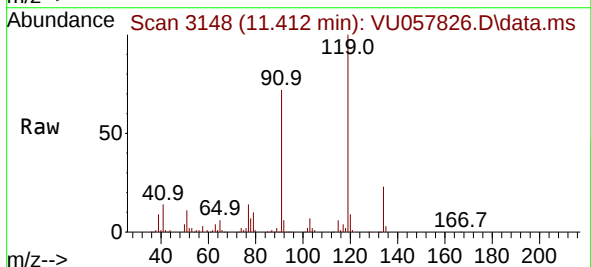
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

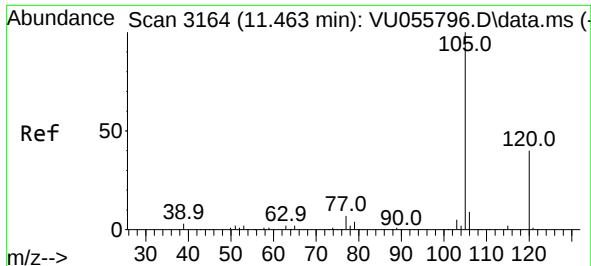
Tgt Ion:126 Resp: 33846
Ion Ratio Lower Upper
126 100
91 609.0 0.0 686.2



#77
tert-Butylbenzene
Concen: 3.012 ug/l
RT: 11.412 min Scan# 3148
Delta R.T. -0.003 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion:119 Resp: 127919
Ion Ratio Lower Upper
119 100
91 71.6 30.8 92.4
134 22.8 18.0 27.0





#78

1,2,4-Trimethylbenzene

Concen: 19.658 ug/l

RT: 11.463 min Scan# 3164

Delta R.T. 0.000 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

Instrument :

MSVOA_U

ClientSampleId :

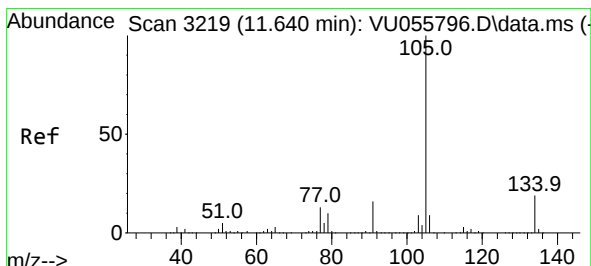
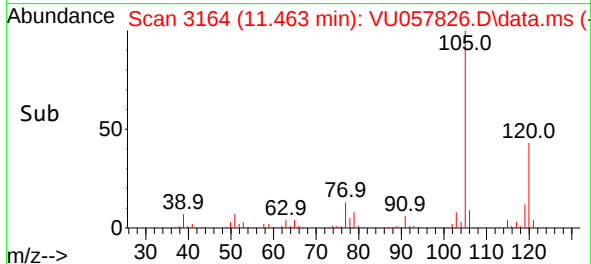
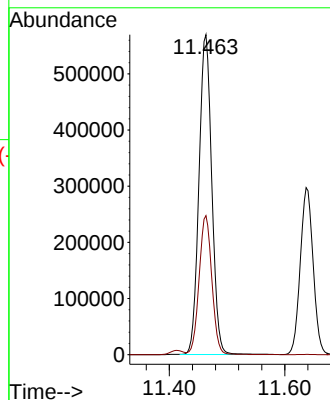
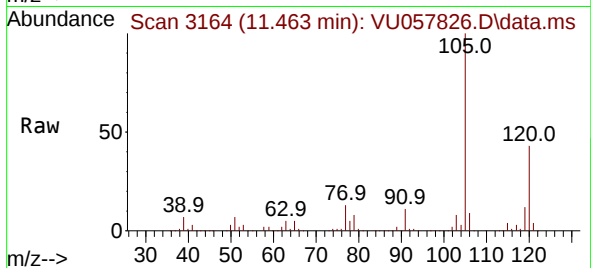
PT-UNRVOA-WS

Tgt Ion:105 Resp: 876442

Ion Ratio Lower Upper

105 100

120 43.0 21.9 65.8



#79

sec-Butylbenzene

Concen: 8.161 ug/l

RT: 11.637 min Scan# 3218

Delta R.T. -0.003 min

Lab File: VU057826.D

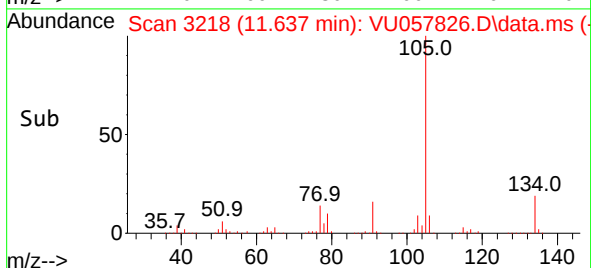
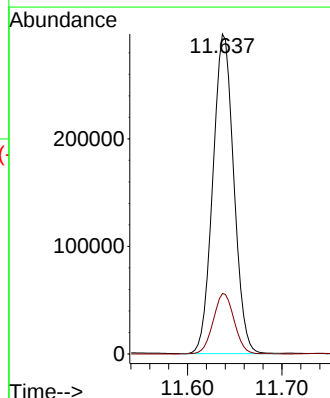
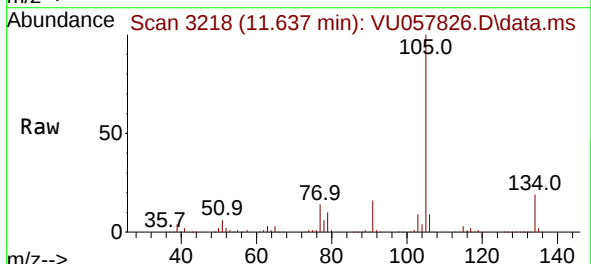
Acq: 06 Feb 2024 17:42

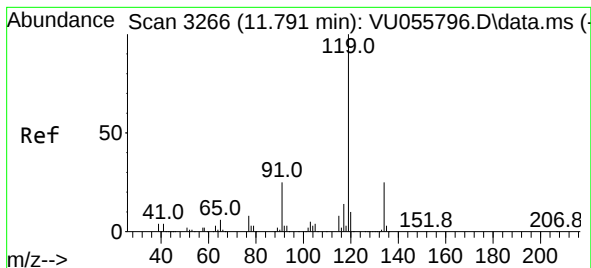
Tgt Ion:105 Resp: 457739

Ion Ratio Lower Upper

105 100

134 19.0 14.9 22.3





#81

p-Isopropyltoluene

Concen: 23.139 ug/l

RT: 11.788 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WS

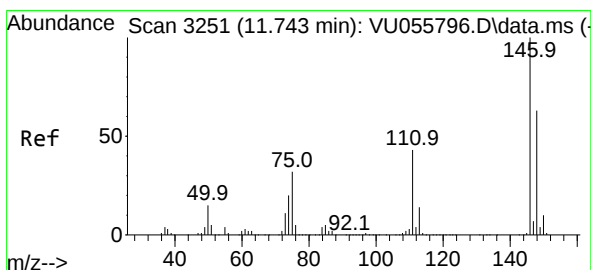
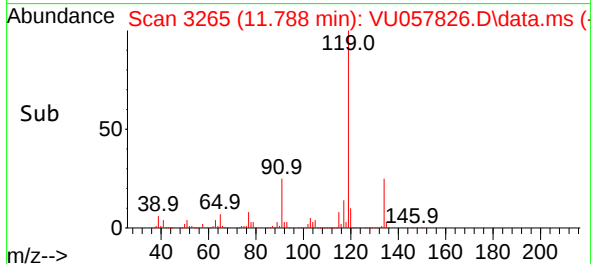
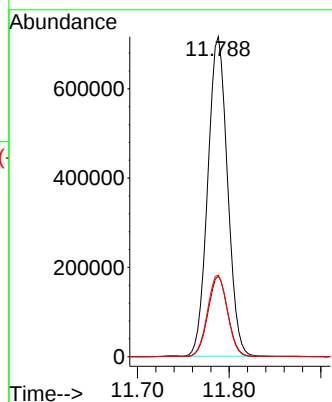
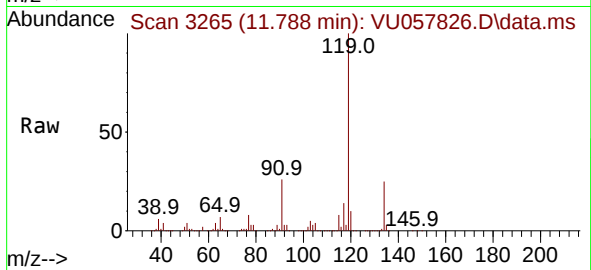
Tgt Ion:119 Resp: 1067100

Ion Ratio Lower Upper

119 100

134 25.1 20.2 30.4

91 25.8 19.3 28.9



#82

1,3-Dichlorobenzene

Concen: 9.224 ug/l

RT: 11.740 min Scan# 3250

Delta R.T. -0.003 min

Lab File: VU057826.D

Acq: 06 Feb 2024 17:42

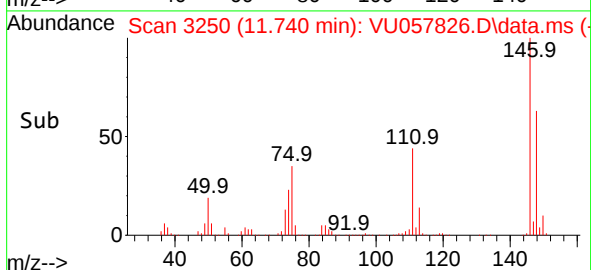
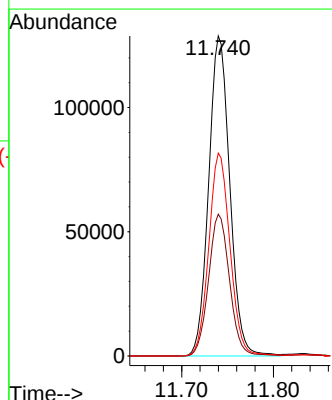
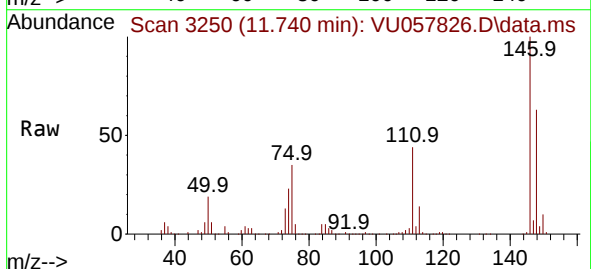
Tgt Ion:146 Resp: 205985

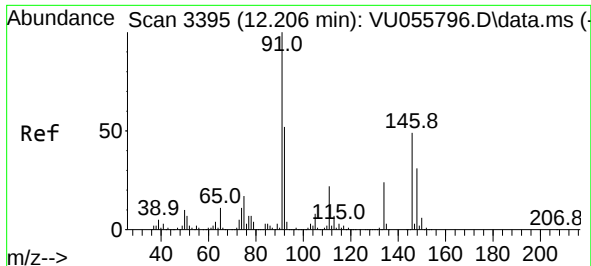
Ion Ratio Lower Upper

146 100

111 44.0 32.6 49.0

148 63.7 51.0 76.4

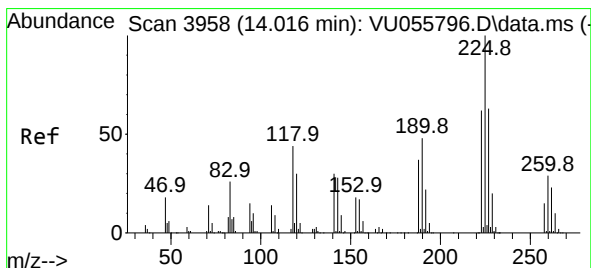
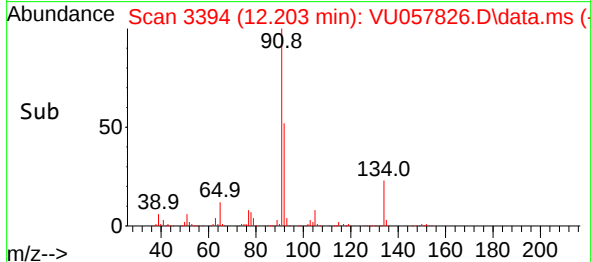
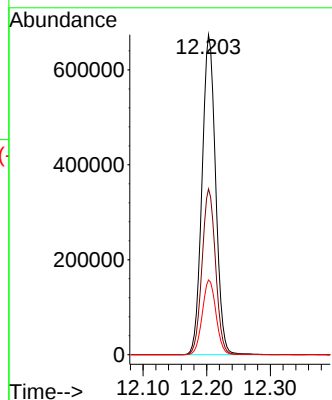
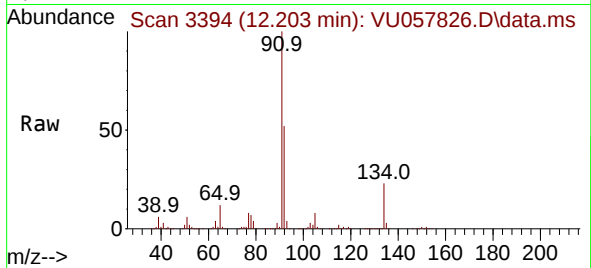




#84
n-Butylbenzene
Concen: 22.756 ug/l
RT: 12.203 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

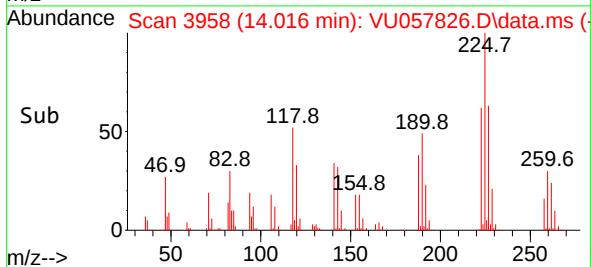
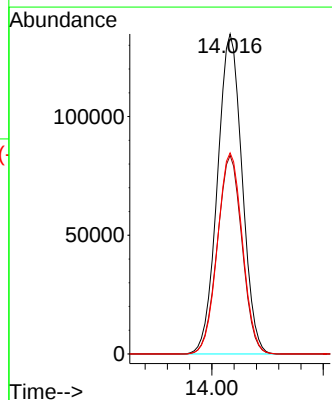
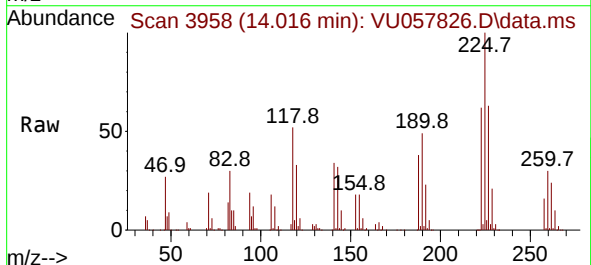
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

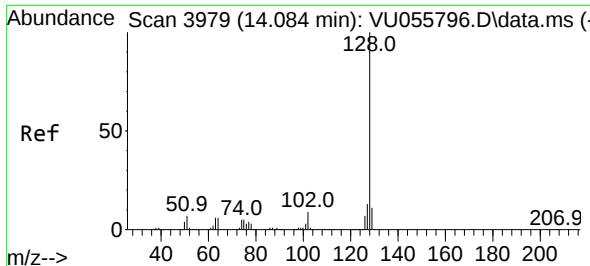
Tgt Ion: 91 Resp: 1001441
Ion Ratio Lower Upper
91 100
92 51.6 40.8 61.2
134 23.6 18.4 27.6



#88
Hexachlorobutadiene
Concen: 26.147 ug/l
RT: 14.016 min Scan# 3958
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion: 225 Resp: 207494
Ion Ratio Lower Upper
225 100
223 62.1 50.2 75.4
227 63.4 51.5 77.3

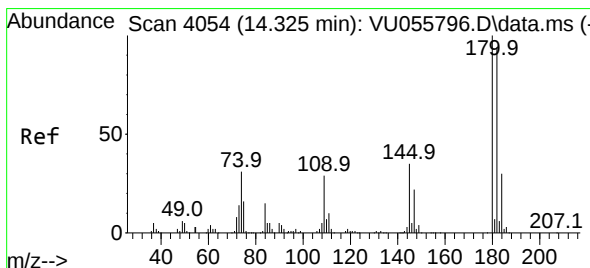
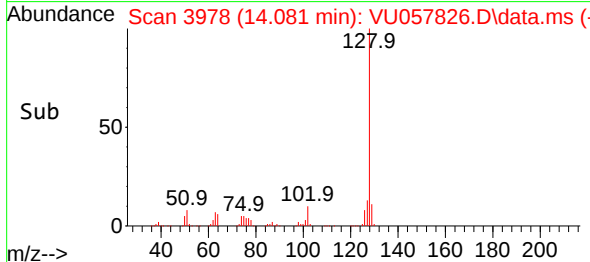
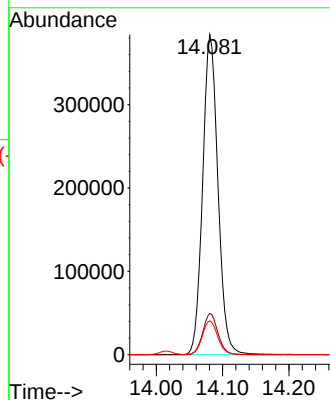
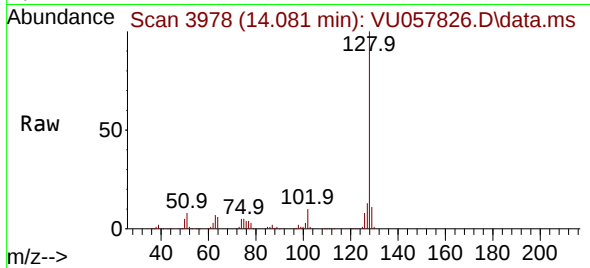




#89
Naphthalene
Concen: 27.695 ug/l
RT: 14.081 min Scan# 3979
Delta R.T. -0.003 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion:128 Resp: 614117
Ion Ratio Lower Upper
128 100
127 12.8 10.9 16.3
129 10.7 8.6 12.8



#90
1,2,3-Trichlorobenzene
Concen: 17.535 ug/l
RT: 14.325 min Scan# 4054
Delta R.T. 0.000 min
Lab File: VU057826.D
Acq: 06 Feb 2024 17:42

Tgt Ion:180 Resp: 190531
Ion Ratio Lower Upper
180 100
182 95.4 75.7 113.5
145 34.4 26.1 39.1

