

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021125\
 Data File : VU063240.D
 Acq On : 11 Feb 2025 17:01
 Operator : MD/SY
 Sample : Q1172-08DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Feb 12 03:20:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021025DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Feb 11 08:42:19 2025
 Response via : Initial Calibration

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

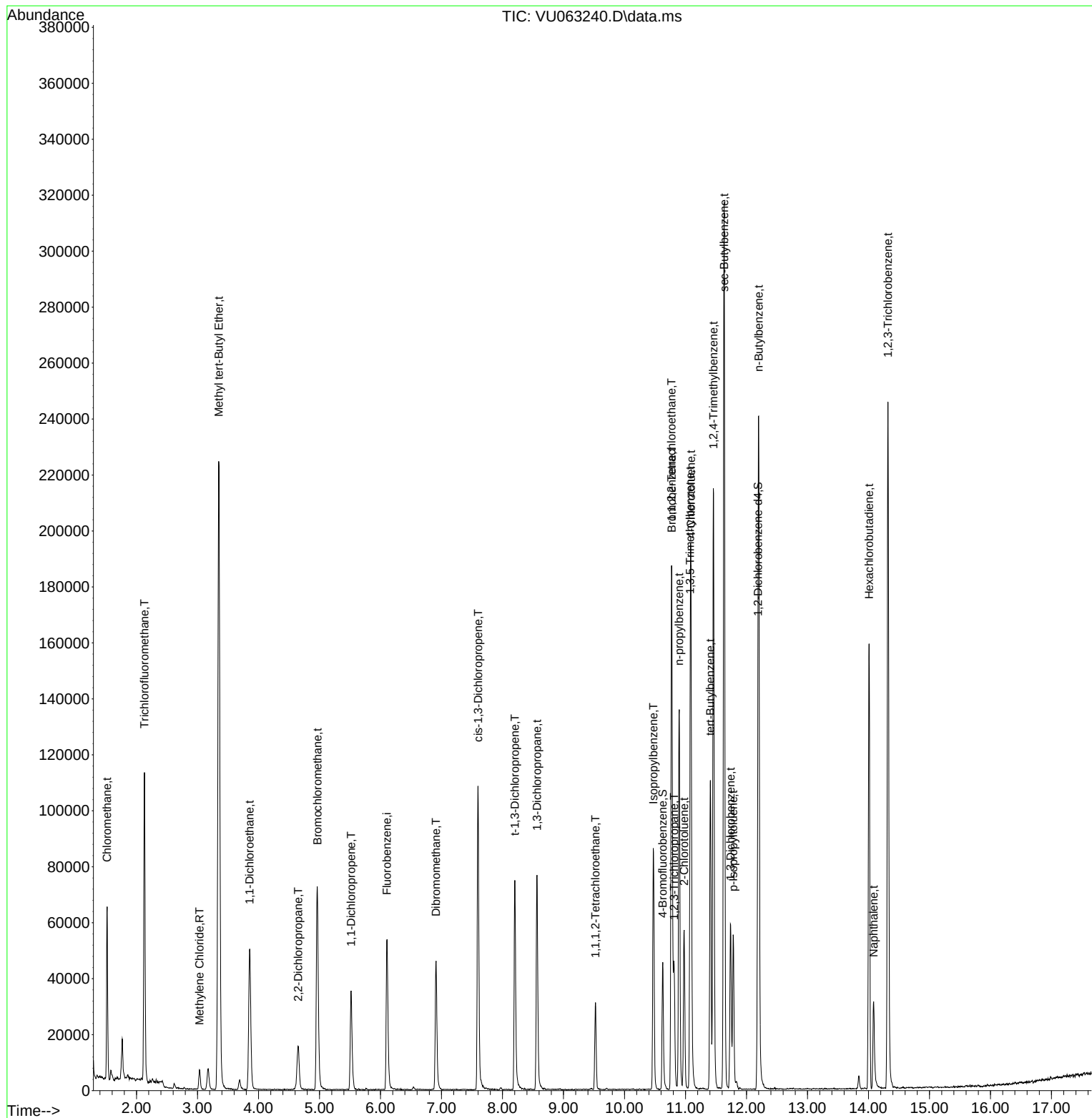
Internal Standards						
1) Fluorobenzene	6.107	96	53013	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	15802	0.904	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	17810	0.979	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
Target Compounds						
						Qvalue
3) Chloromethane	1.518	50	46069	2.323	ug/l	99
7) Trichlorofluoromethane	2.129	101	70282	3.022	ug/l	98
15) Methylene Chloride	3.033	84	3428	0.206	ug/l	96
17) 1,1-Dichloroethane	3.856	63	60392	2.087	ug/l	99
21) 2,2-Dichloropropane	4.650	77	11649	0.516	ug/l	# 88
25) Methyl tert-Butyl Ether	3.348	73	245862	7.319	ug/l	99
26) Bromochloromethane	4.965	128	24364	3.361	ug/l	96
29) 1,1-Dichloropropene	5.518	75	20915	0.987	ug/l	96
43) Dibromomethane	6.910	93	19389	2.246	ug/l	98
50) t-1,3-Dichloropropene	8.203	75	44255	2.406	ug/l	100
51) cis-1,3-Dichloropropene	7.598	75	66008	2.905	ug/l	99
53) 1,3-Dichloropropane	8.566	76	47481	2.298	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.524	131	8416	0.592	ug/l	97
69) Isopropylbenzene	10.473	105	54238	0.925	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.772	83	16649	1.061	ug/l	98
71) 1,2,3-Trichloropropane	10.814	75	18495	1.569	ug/l	# 90
72) Bromobenzene	10.775	156	46157	2.923	ug/l	97
73) n-propylbenzene	10.897	120	22861	1.362	ug/l	99
74) 2-Chlorotoluene	10.978	126	10775	0.697	ug/l	99
75) 1,3,5-Trimethylbenzene	11.077	105	53243	0.980	ug/l	97
76) 4-Chlorotoluene	11.090	126	26770	1.688	ug/l	86
77) tert-Butylbenzene	11.409	119	49758	0.906	ug/l	89
78) 1,2,4-Trimethylbenzene	11.460	105	120950	2.245	ug/l	99
79) sec-Butylbenzene	11.634	105	215554	3.082	ug/l	99
81) p-Isopropyltoluene	11.785	119	30704	0.556	ug/l	99
82) 1,3-Dichlorobenzene	11.740	146	26491	0.865	ug/l	98
84) n-Butylbenzene	12.200	91	126225	2.551	ug/l	97
88) Hexachlorobutadiene	14.010	225	27884	2.718	ug/l	98
89) Naphthalene	14.084	128	32015	1.655	ug/l	98
90) 1,2,3-Trichlorobenzene	14.318	180	79680	5.672	ug/l	97

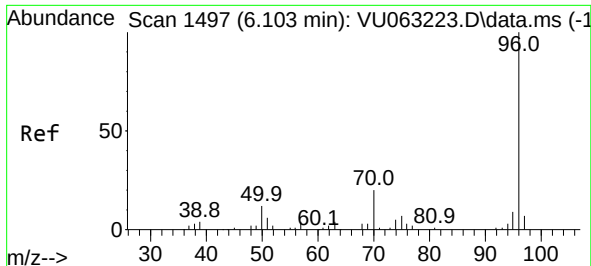
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Feb 12 03:20:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021025DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Feb 11 08:42:19 2025
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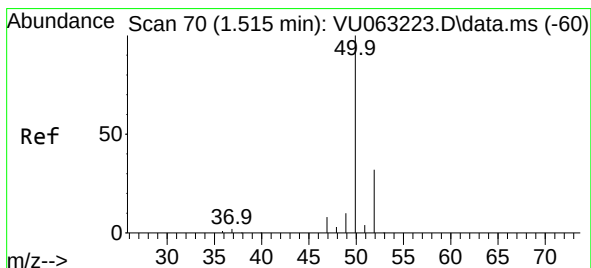
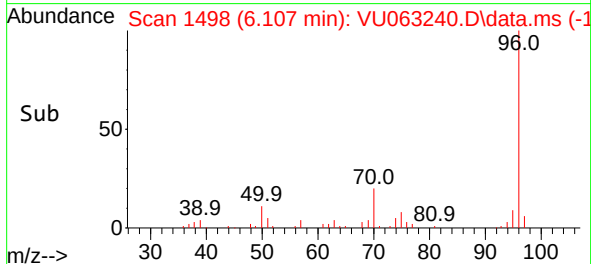
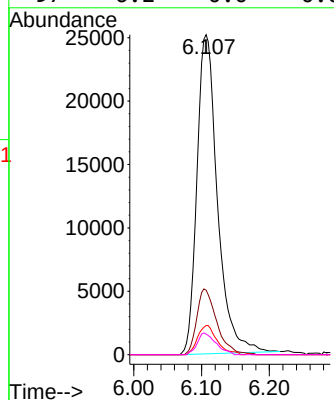
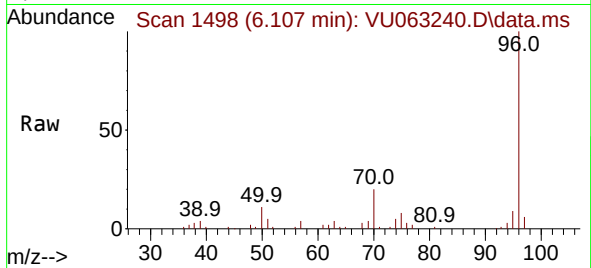




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 1497
Delta R.T. 0.004 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

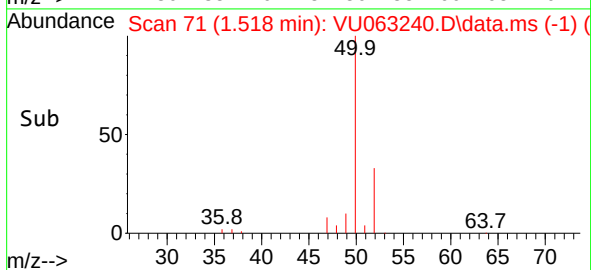
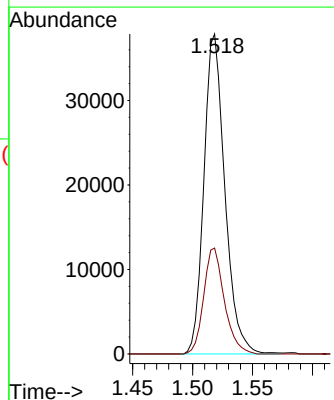
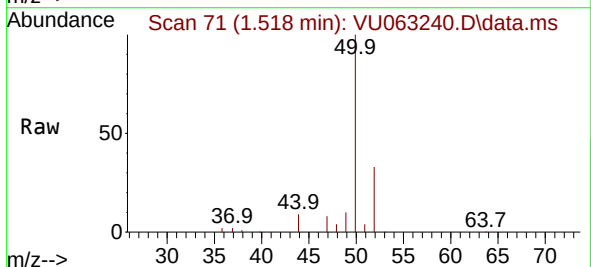
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

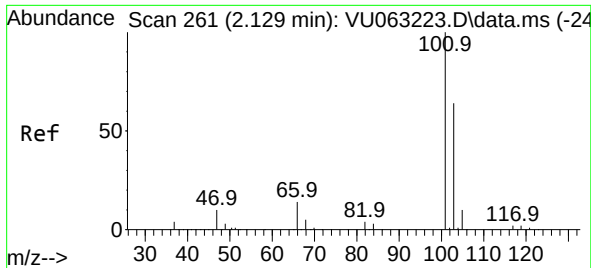
Tgt Ion: 96	Resp: 53013
Ion Ratio	Lower Upper
96 100	
70 20.0	15.6 23.4
95 8.7	7.3 10.9
97 6.2	0.0 0.0



#3
Chloromethane
Concen: 2.323 ug/l
RT: 1.518 min Scan# 71
Delta R.T. 0.003 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

Tgt Ion: 50	Resp: 46069
Ion Ratio	Lower Upper
50 100	
52 33.1	25.8 38.8

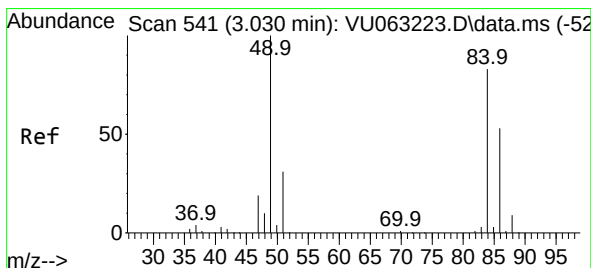
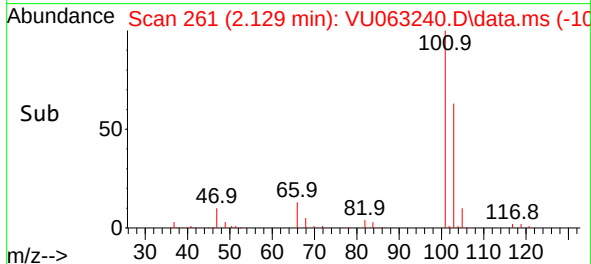
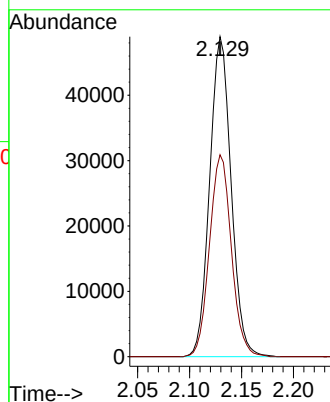
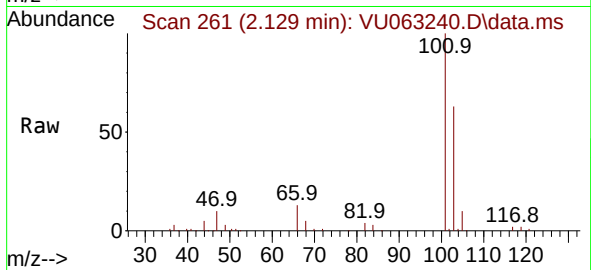




#7
 Trichlorofluoromethane
 Concen: 3.022 ug/l
 RT: 2.129 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

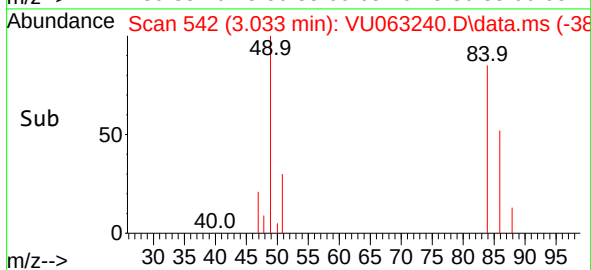
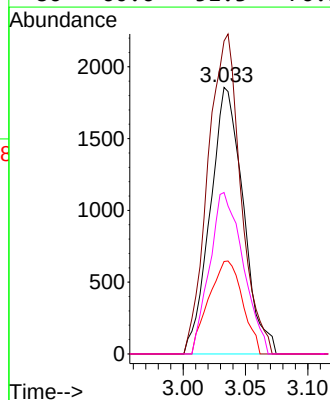
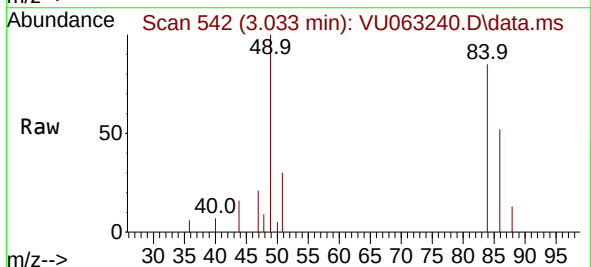
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

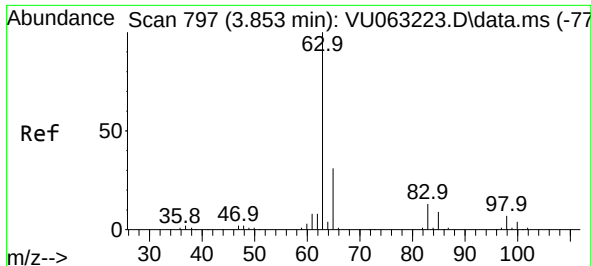
Tgt Ion:101 Resp: 70282
 Ion Ratio Lower Upper
 101 100
 103 63.1 51.4 77.2



#15
 Methylene Chloride
 Concen: 0.206 ug/l
 RT: 3.033 min Scan# 542
 Delta R.T. 0.003 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

Tgt Ion: 84 Resp: 3428
 Ion Ratio Lower Upper
 84 100
 49 117.4 96.4 144.6
 51 34.7 0.0 74.8
 86 60.6 51.3 76.9





#17

1,1-Dichloroethane

Concen: 2.087 ug/l

RT: 3.856 min Scan# 79

Delta R.T. 0.003 min

Lab File: VU063240.D

Acq: 11 Feb 2025 17:01

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

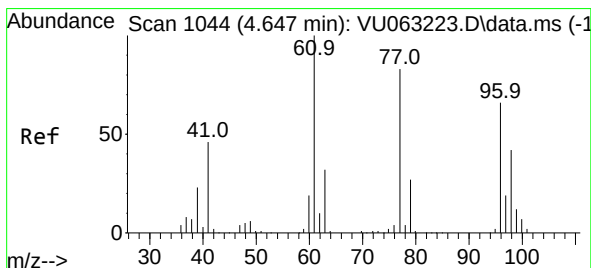
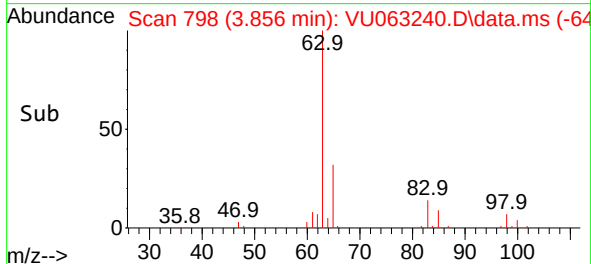
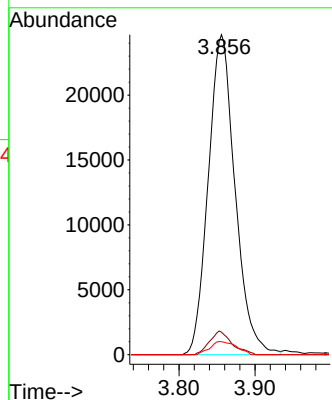
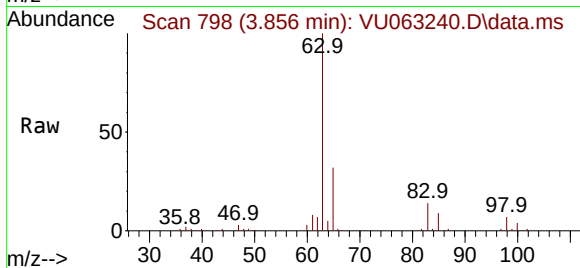
Tgt Ion: 63 Resp: 60392

Ion Ratio Lower Upper

63 100

98 7.1 3.3 9.9

100 4.1 2.1 6.2



#21

2,2-Dichloropropane

Concen: 0.516 ug/l

RT: 4.650 min Scan# 1045

Delta R.T. 0.003 min

Lab File: VU063240.D

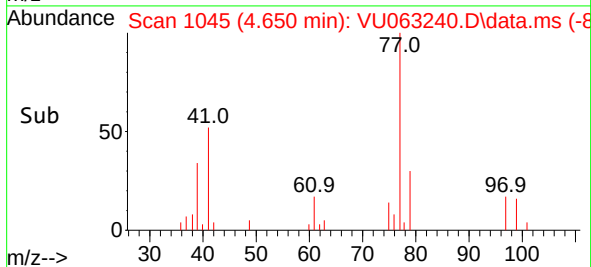
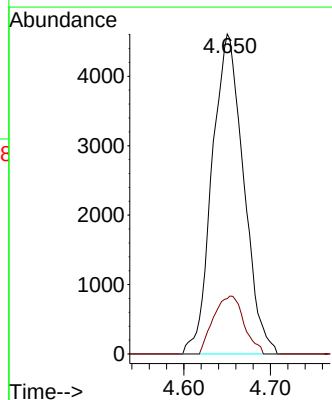
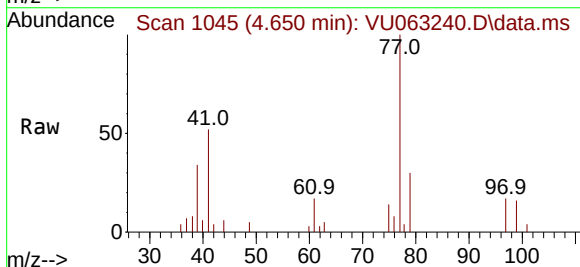
Acq: 11 Feb 2025 17:01

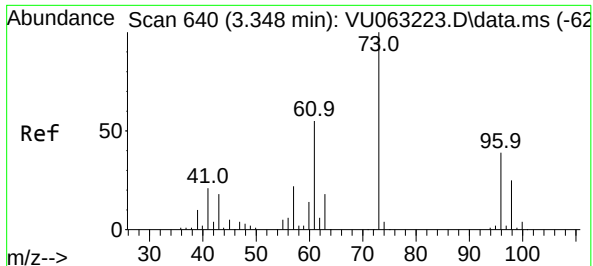
Tgt Ion: 77 Resp: 11649

Ion Ratio Lower Upper

77 100

97 17.5 18.5 27.7#

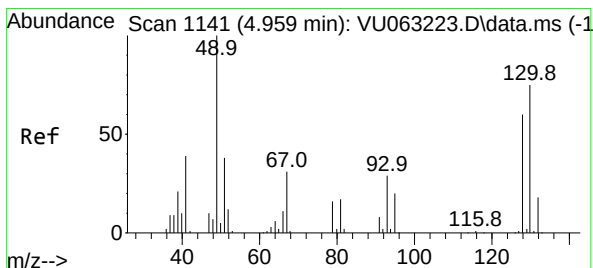
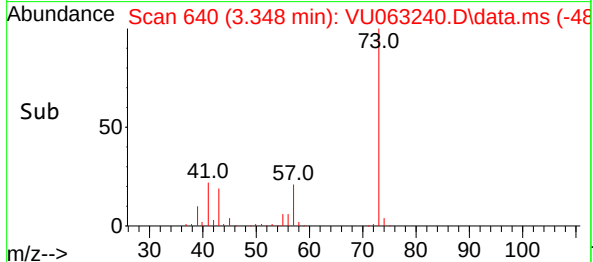
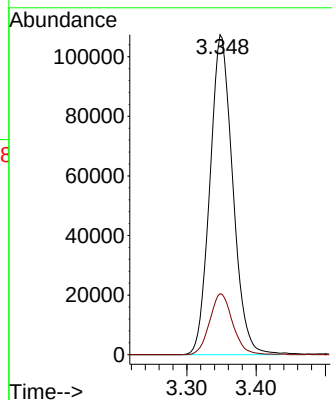
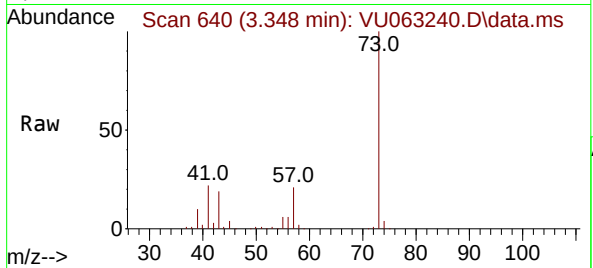




#25
Methyl tert-Butyl Ether
Concen: 7.319 ug/l
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

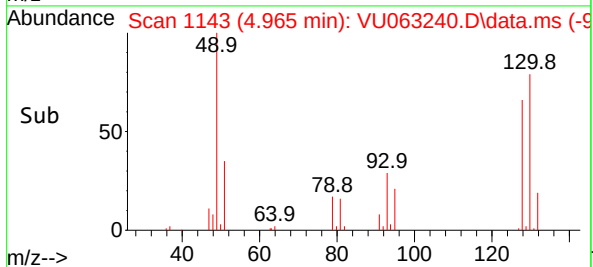
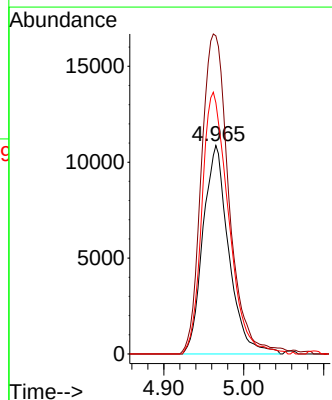
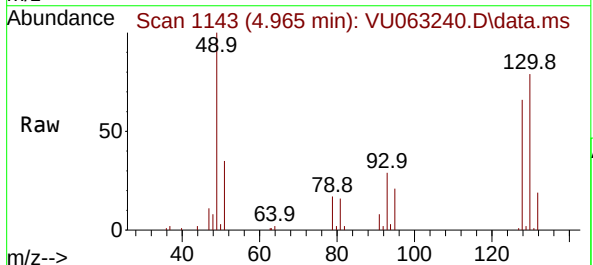
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

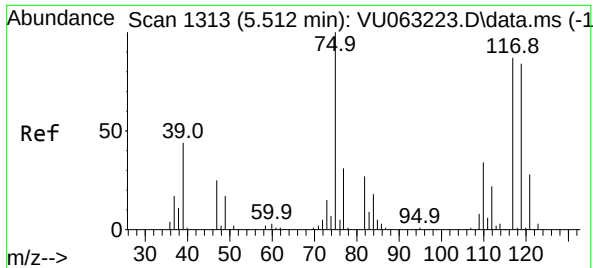
Tgt Ion: 73 Resp: 245862
Ion Ratio Lower Upper
73 100
43 19.2 14.9 22.3



#26
Bromochloromethane
Concen: 3.361 ug/l
RT: 4.965 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

Tgt Ion: 128 Resp: 24364
Ion Ratio Lower Upper
128 100
49 164.6 0.0 343.4
130 130.2 102.9 154.3





#29

1,1-Dichloropropene

Concen: 0.987 ug/l

RT: 5.518 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU063240.D

Acq: 11 Feb 2025 17:01

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

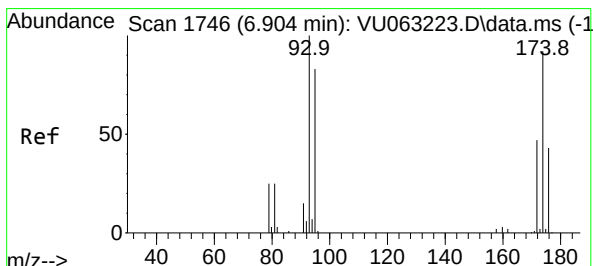
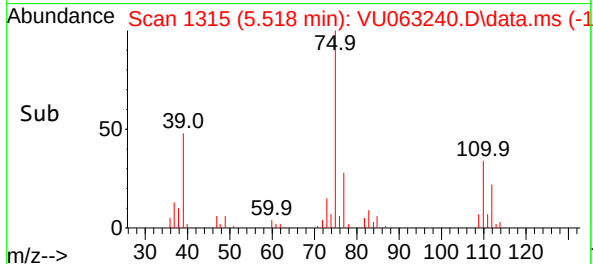
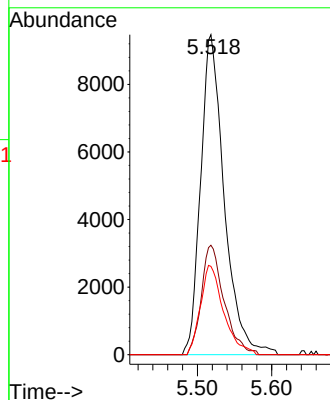
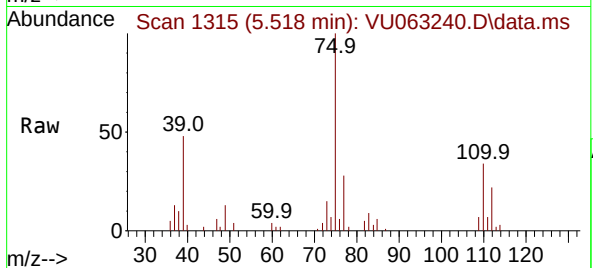
Tgt Ion: 75 Resp: 20915

Ion Ratio Lower Upper

75 100

110 32.9 17.2 51.5

77 27.3 24.6 37.0



#43

Dibromomethane

Concen: 2.246 ug/l

RT: 6.910 min Scan# 1748

Delta R.T. 0.006 min

Lab File: VU063240.D

Acq: 11 Feb 2025 17:01

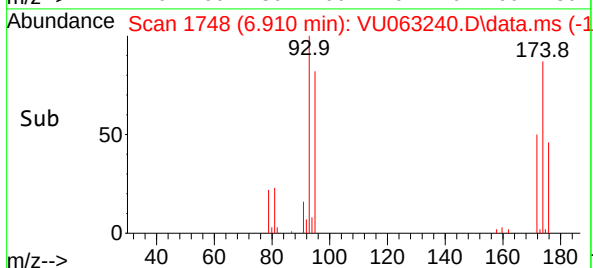
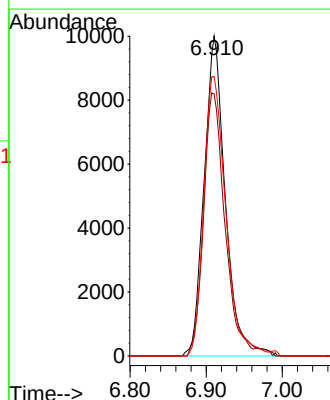
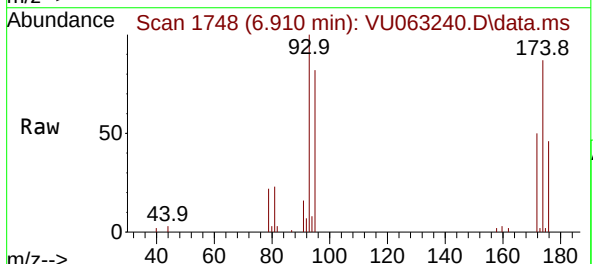
Tgt Ion: 93 Resp: 19389

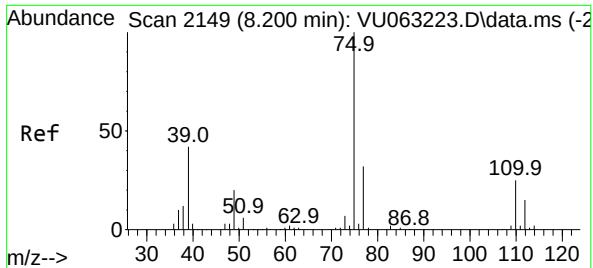
Ion Ratio Lower Upper

93 100

95 83.7 67.2 100.8

174 91.0 75.7 113.5

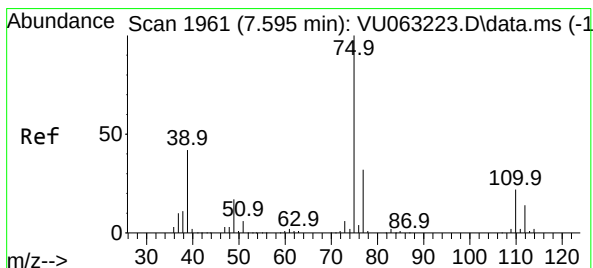
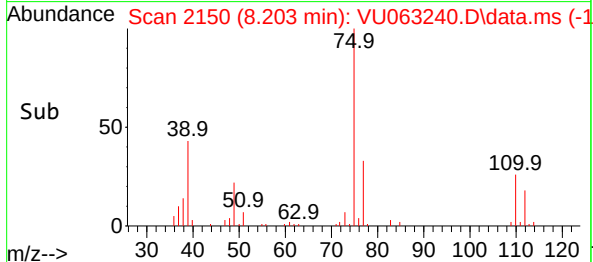
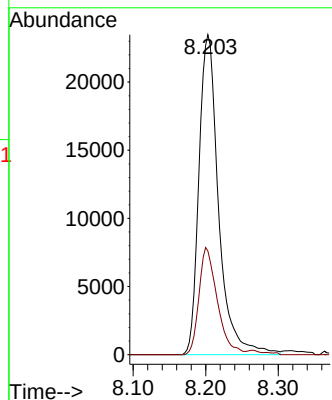
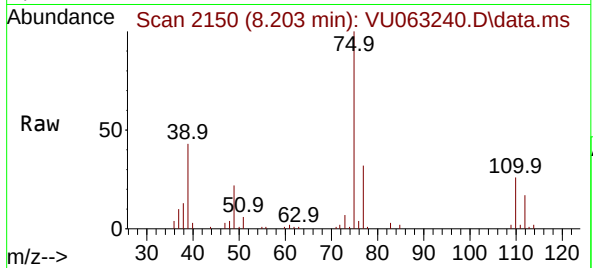




#50
 t-1,3-Dichloropropene
 Concen: 2.406 ug/l
 RT: 8.203 min Scan# 2149
 Delta R.T. 0.003 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

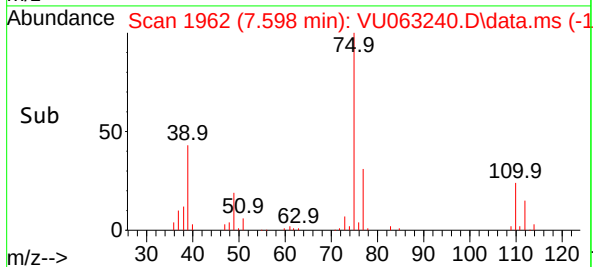
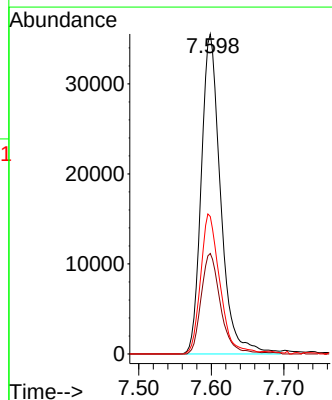
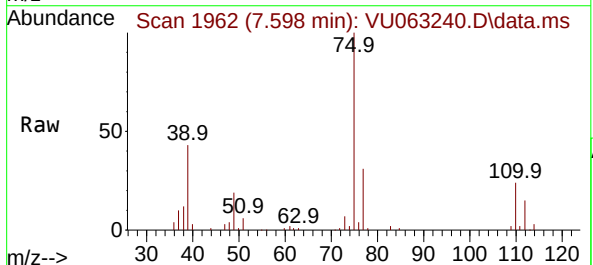
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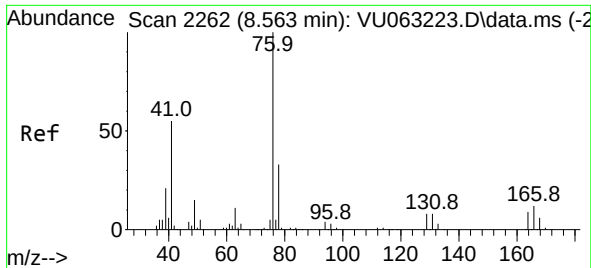
Tgt Ion: 75 Resp: 44255
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.9 38.9



#51
 cis-1,3-Dichloropropene
 Concen: 2.905 ug/l
 RT: 7.598 min Scan# 1962
 Delta R.T. 0.003 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

Tgt Ion: 75 Resp: 66008
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.3 37.9
 39 42.9 33.5 50.3





#53

1,3-Dichloropropane

Concen: 2.298 ug/l

RT: 8.566 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU063240.D

Acq: 11 Feb 2025 17:01

Instrument :

MSVOA_U

ClientSampleId :

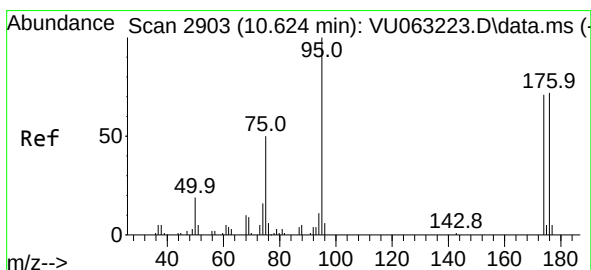
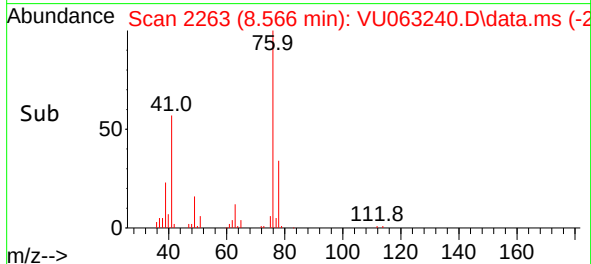
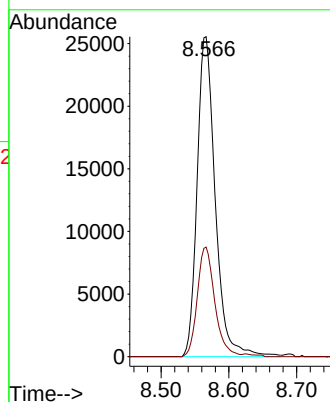
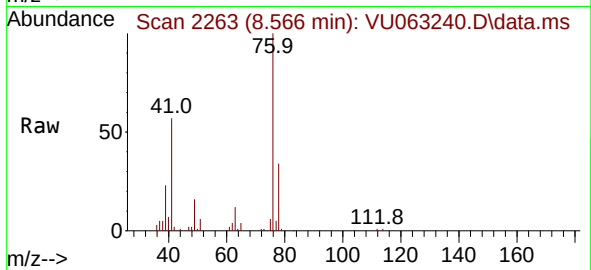
PT-UNRVOA-WSDL

Tgt Ion: 76 Resp: 47481

Ion Ratio Lower Upper

76 100

78 33.0 26.3 39.5



#57

4-Bromofluorobenzene

Concen: 0.904 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. 0.003 min

Lab File: VU063240.D

Acq: 11 Feb 2025 17:01

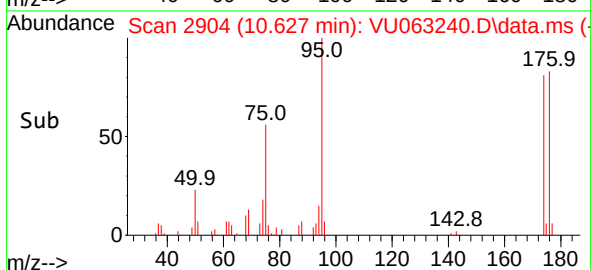
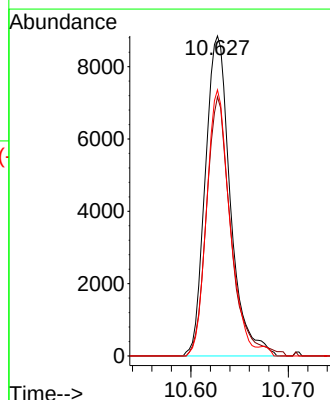
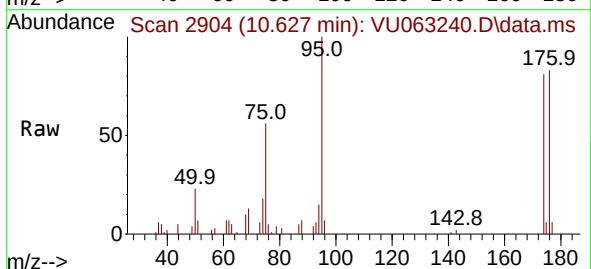
Tgt Ion: 95 Resp: 15802

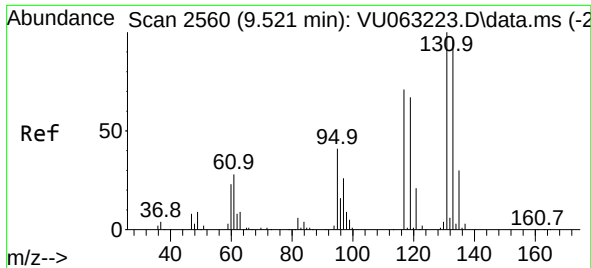
Ion Ratio Lower Upper

95 100

174 78.6 58.6 88.0

176 77.2 58.2 87.4

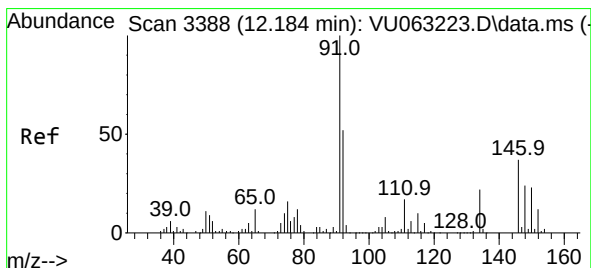
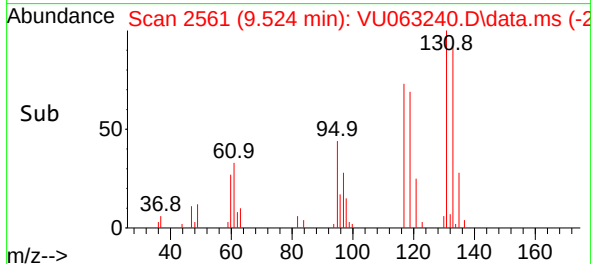
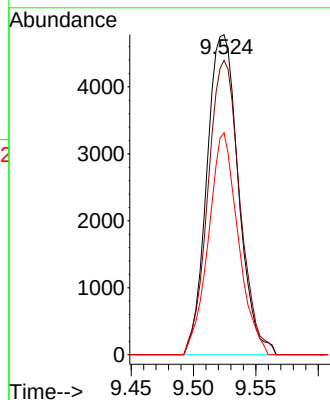
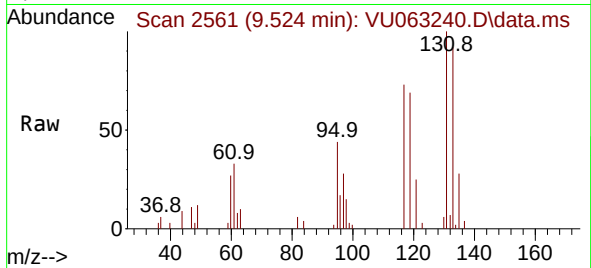




#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.592 ug/l
 RT: 9.524 min Scan# 2560
 Delta R.T. 0.003 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

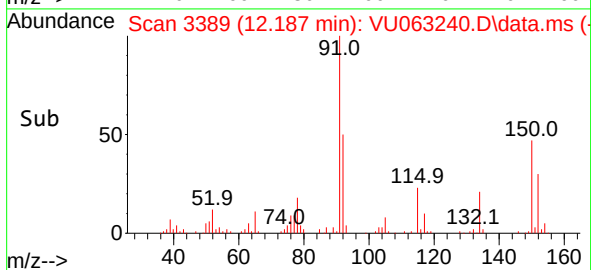
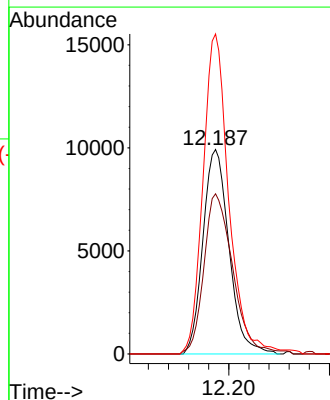
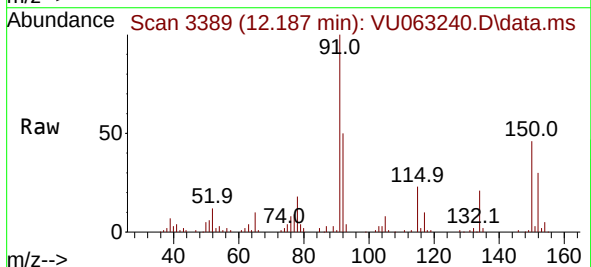
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

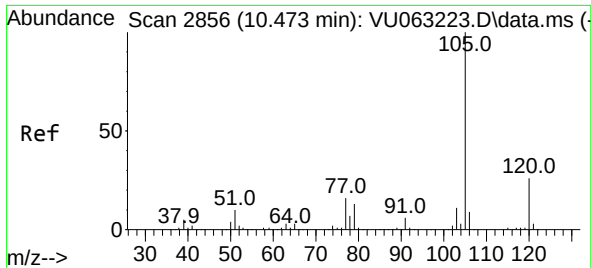
Tgt Ion:131 Resp: 8416
 Ion Ratio Lower Upper
 131 100
 133 93.0 76.7 115.1
 119 65.3 54.4 81.6



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.979 ug/l
 RT: 12.187 min Scan# 3389
 Delta R.T. 0.003 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

Tgt Ion:152 Resp: 17810
 Ion Ratio Lower Upper
 152 100
 115 87.2 0.0 275.2
 150 155.7 0.0 658.4

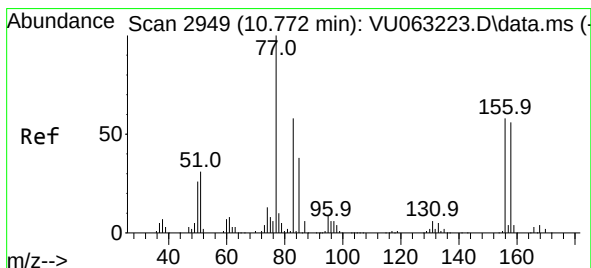
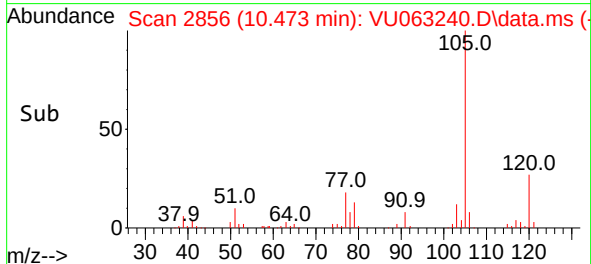
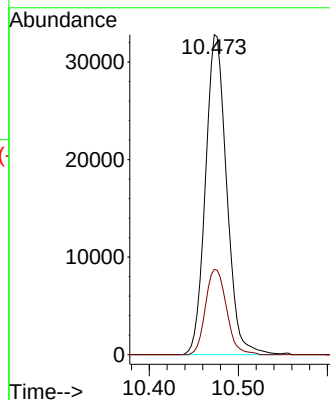
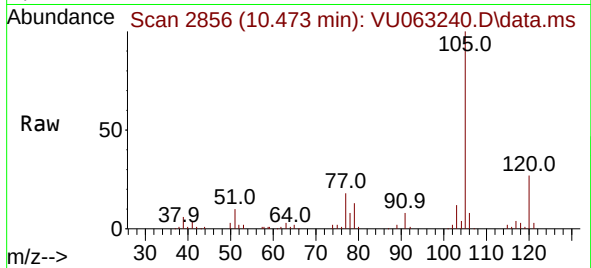




#69
Isopropylbenzene
Concen: 0.925 ug/l
RT: 10.473 min Scan# 2856
Delta R.T. -0.000 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

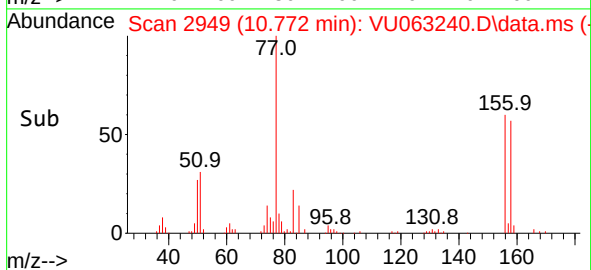
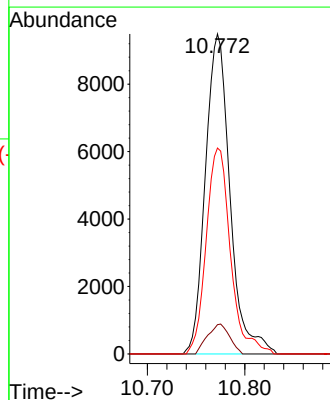
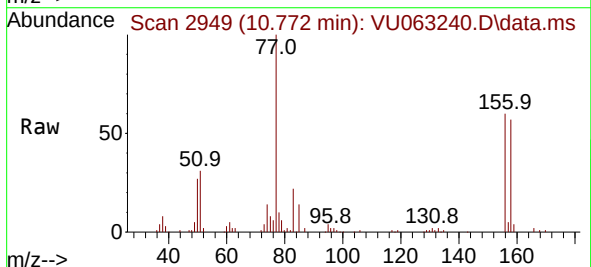
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ClientSampleId :
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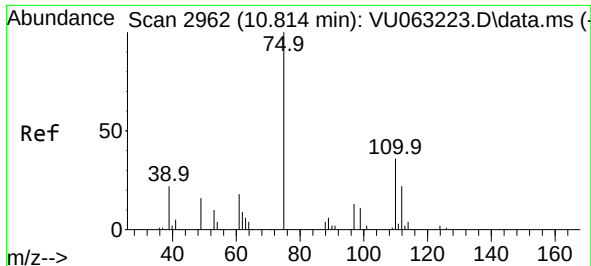
Tgt Ion:105 Resp: 54238
Ion Ratio Lower Upper
105 100
120 26.4 12.8 38.4



#70
1,1,2,2-Tetrachloroethane
Concen: 1.061 ug/l
RT: 10.772 min Scan# 2949
Delta R.T. -0.000 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

Tgt Ion: 83 Resp: 16649
Ion Ratio Lower Upper
83 100
131 8.4 7.4 11.0
85 63.6 51.8 77.8

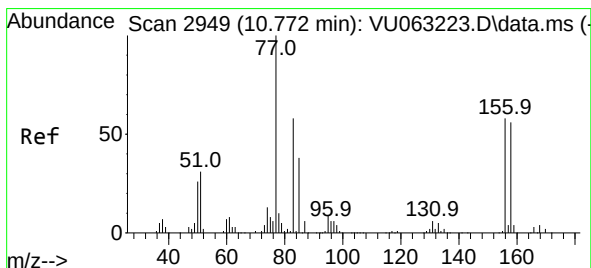
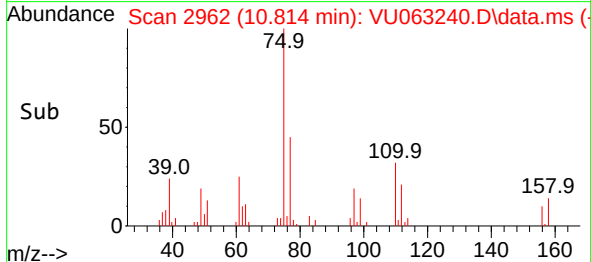
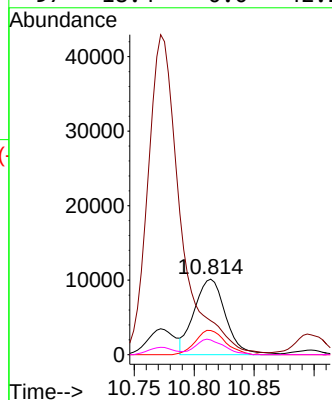
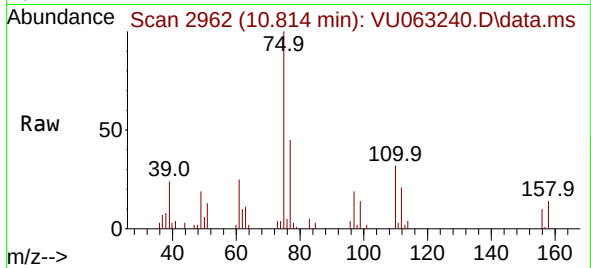




#71
1,2,3-Trichloropropane
Concen: 1.569 ug/l
RT: 10.814 min Scan# 2962
Delta R.T. -0.000 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

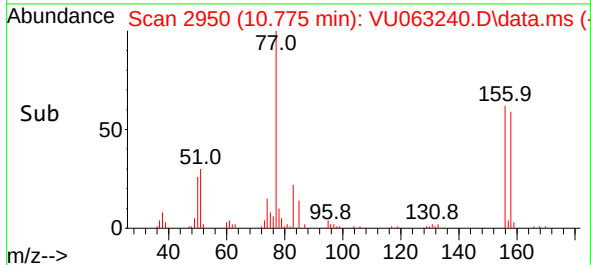
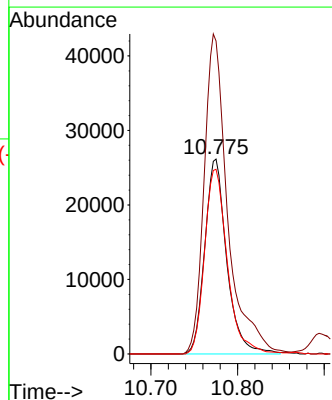
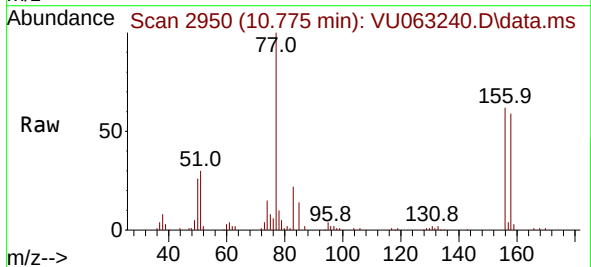
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

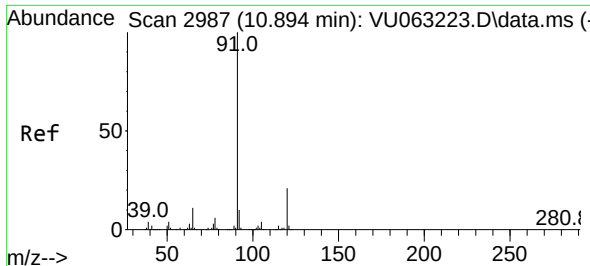
Tgt Ion: 75	Resp:	18495
Ion Ratio	Lower	Upper
75	100	
77	0.0	0.0
110	30.7	77.0
97	18.4	42.2



#72
Bromobenzene
Concen: 2.923 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.003 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

Tgt Ion: 156	Resp:	46157
Ion Ratio	Lower	Upper
156	100	
77	176.2	343.6
158	98.2	193.0

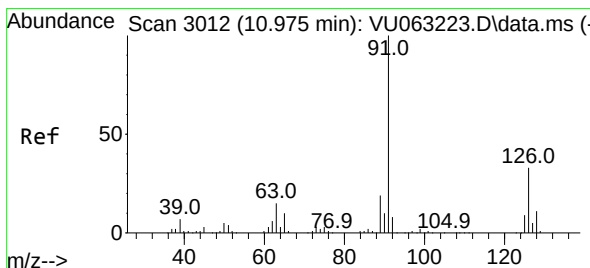
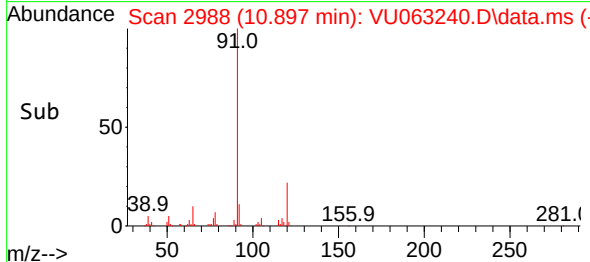
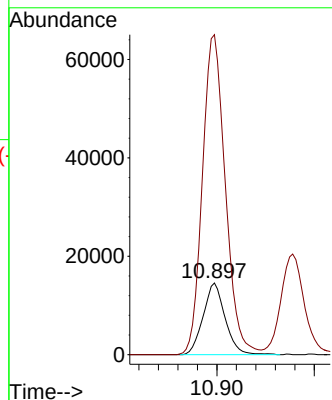
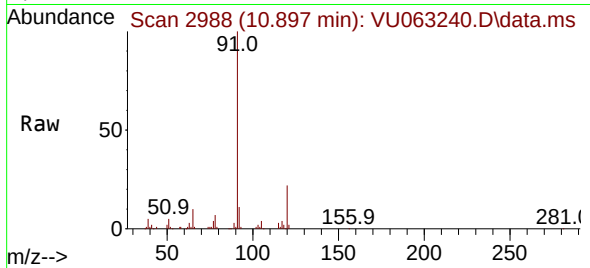




#73
n-propylbenzene
Concen: 1.362 ug/l
RT: 10.897 min Scan# 2987
Delta R.T. 0.003 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

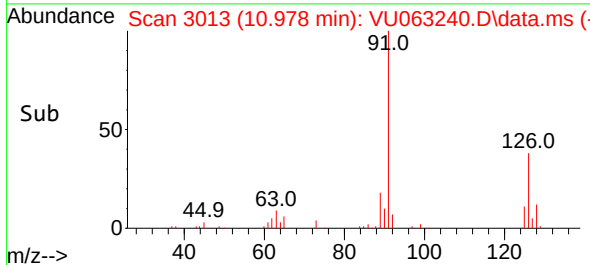
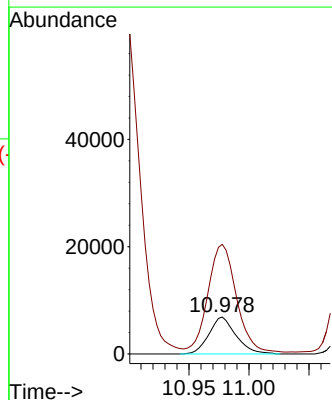
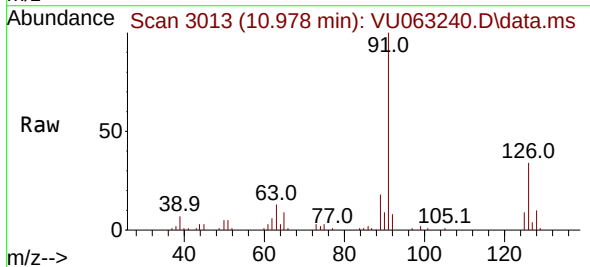
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

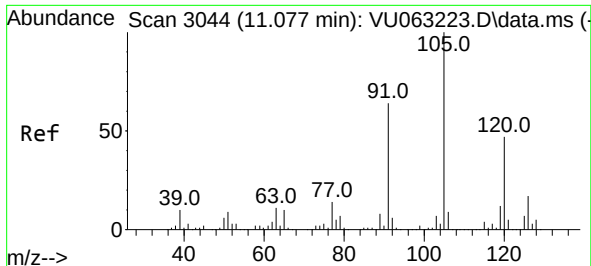
Tgt Ion:120 Resp: 22861
Ion Ratio Lower Upper
120 100
91 465.1 369.8 554.6



#74
2-Chlorotoluene
Concen: 0.697 ug/l
RT: 10.978 min Scan# 3013
Delta R.T. 0.003 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

Tgt Ion:126 Resp: 10775
Ion Ratio Lower Upper
126 100
91 314.5 0.0 623.8

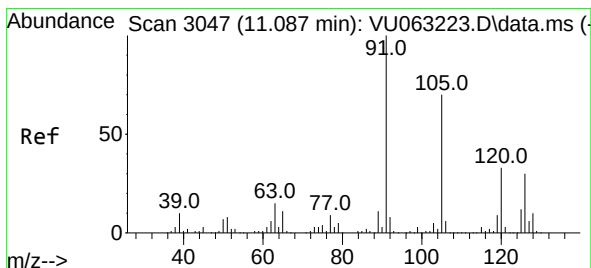
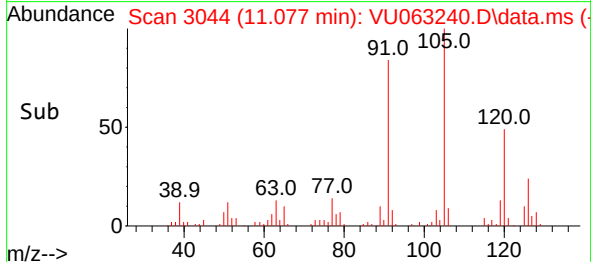
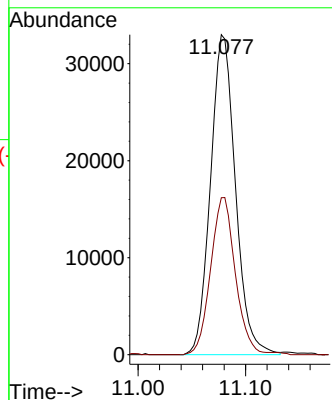
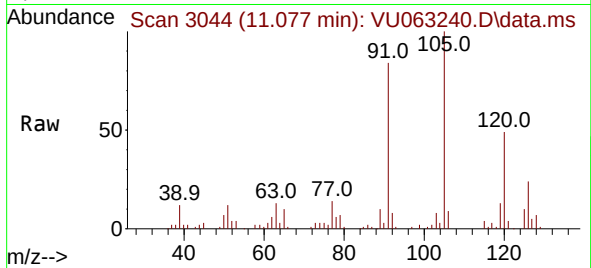




#75
1,3,5-Trimethylbenzene
Concen: 0.980 ug/l
RT: 11.077 min Scan# 3044
Delta R.T. -0.000 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

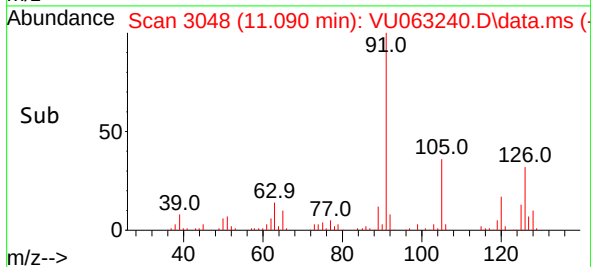
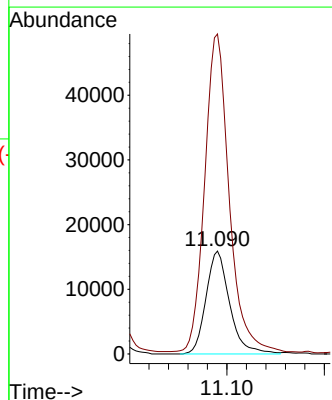
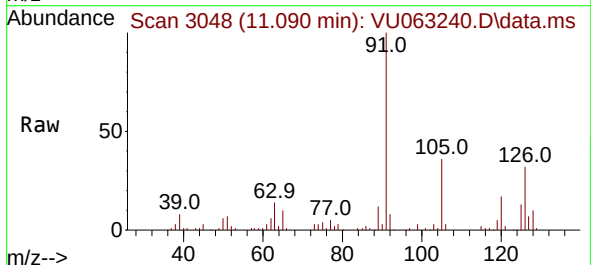
Instrument :
MSVOA_U
ClientSampleId :
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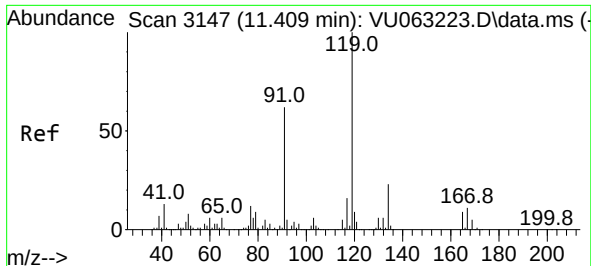
Tgt Ion:105 Resp: 53243
Ion Ratio Lower Upper
105 100
120 48.9 37.3 55.9



#76
4-Chlorotoluene
Concen: 1.688 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

Tgt Ion:126 Resp: 26770
Ion Ratio Lower Upper
126 100
91 321.8 0.0 703.6

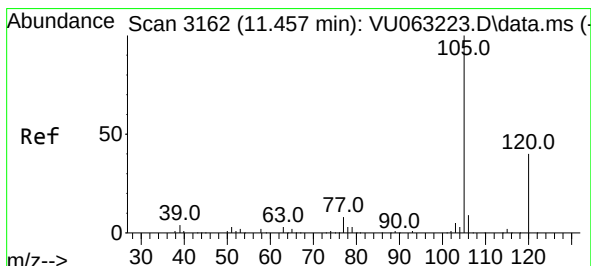
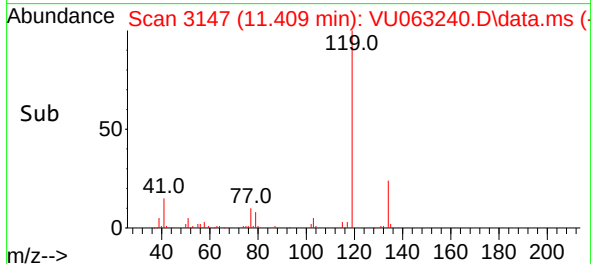
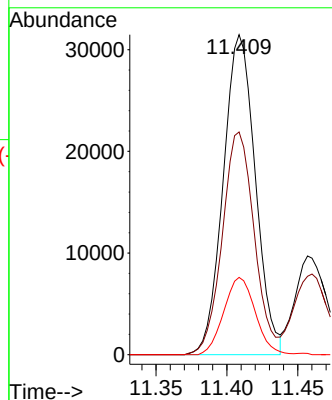
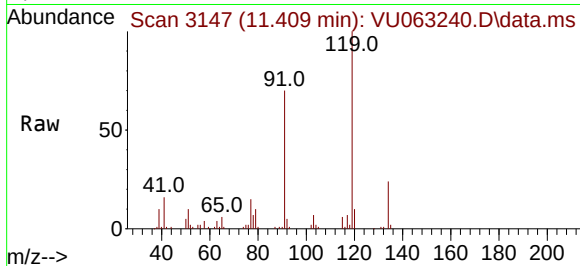




#77
tert-Butylbenzene
Concen: 0.906 ug/l
RT: 11.409 min Scan# 3147
Delta R.T. -0.000 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

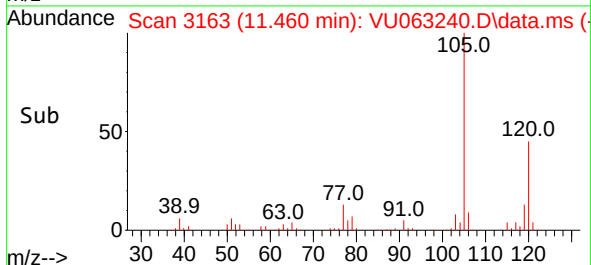
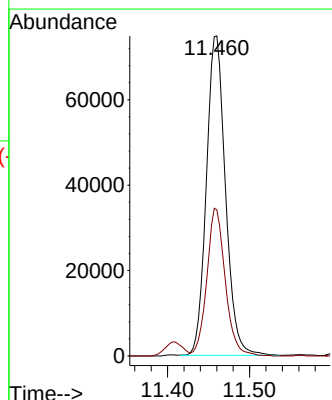
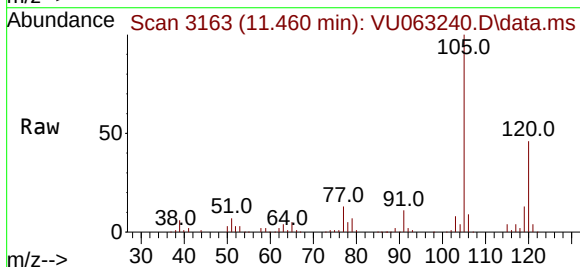
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

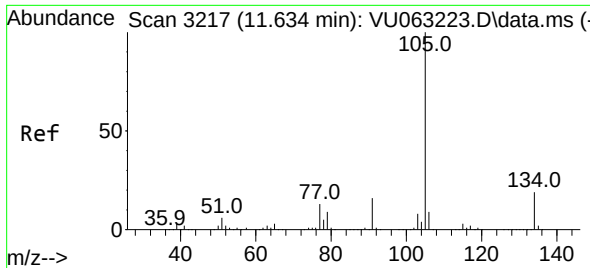
Tgt Ion:119 Resp: 49758
Ion Ratio Lower Upper
119 100
91 68.9 29.4 88.3
134 23.7 17.6 26.4



#78
1,2,4-Trimethylbenzene
Concen: 2.245 ug/l
RT: 11.460 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

Tgt Ion:105 Resp: 120950
Ion Ratio Lower Upper
105 100
120 44.6 21.9 65.7

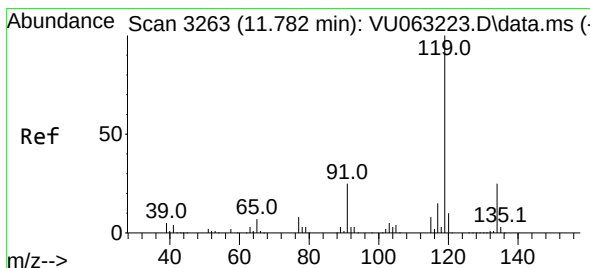
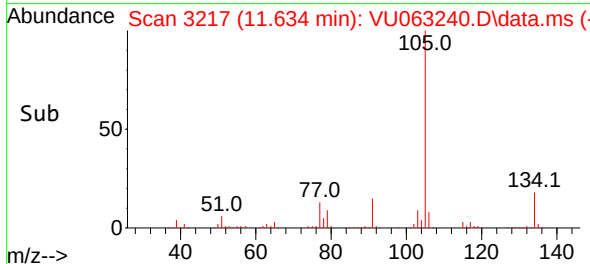
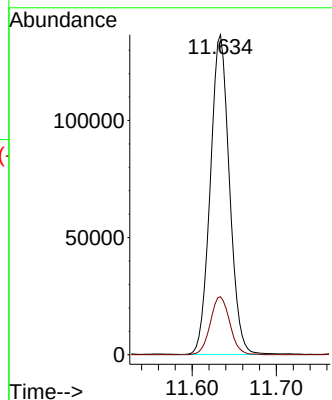
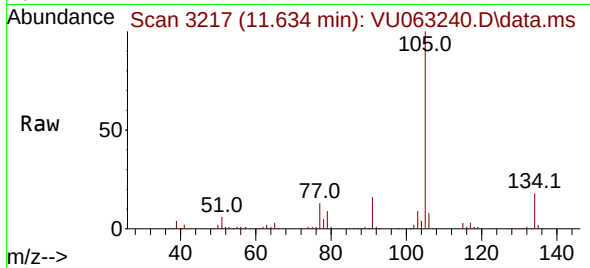




#79
 sec-Butylbenzene
 Concen: 3.082 ug/l
 RT: 11.634 min Scan# 3217
 Delta R.T. -0.000 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

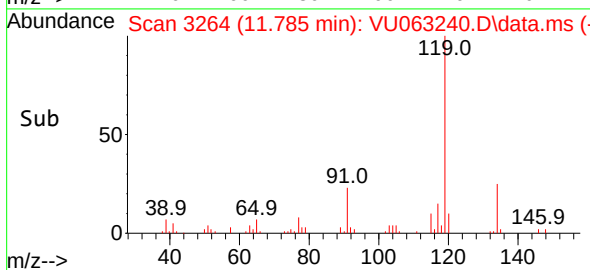
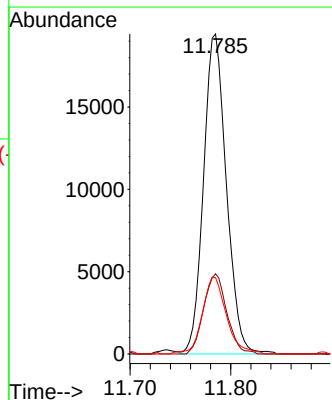
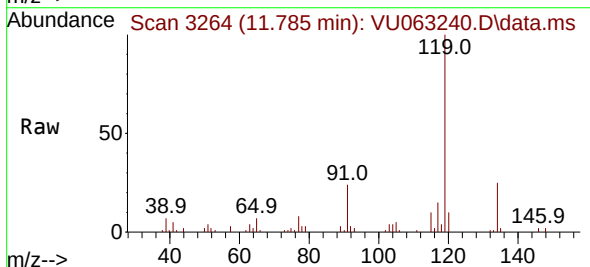
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

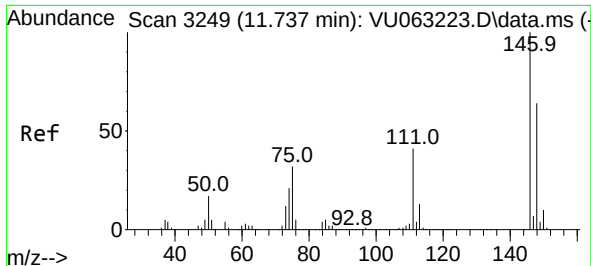
Tgt Ion:105 Resp: 215554
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.1 22.7



#81
 p-Isopropyltoluene
 Concen: 0.556 ug/l
 RT: 11.785 min Scan# 3264
 Delta R.T. 0.003 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

Tgt Ion:119 Resp: 30704
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.3 30.5
 91 25.2 19.4 29.2





#82

1,3-Dichlorobenzene

Concen: 0.865 ug/l

RT: 11.740 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU063240.D

Acq: 11 Feb 2025 17:01

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

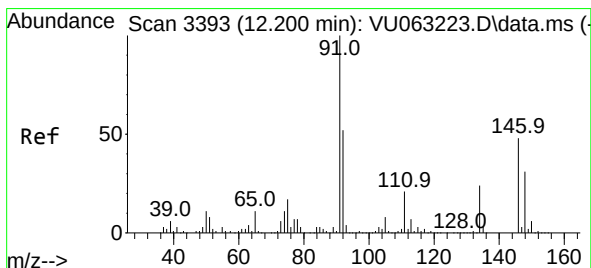
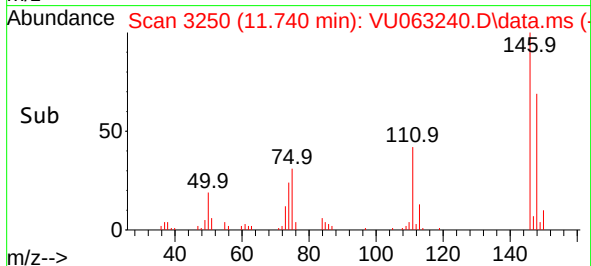
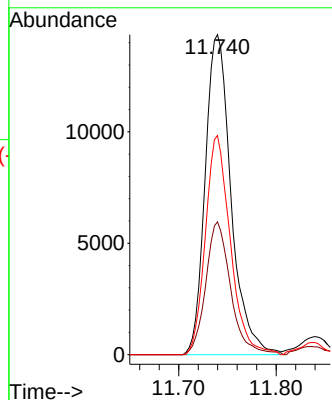
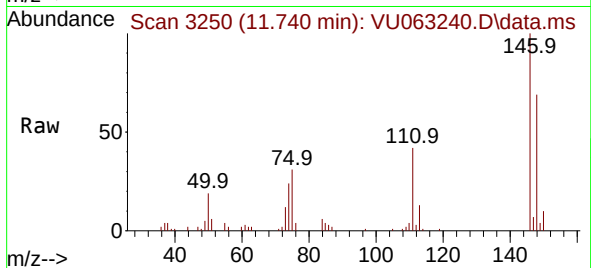
Tgt Ion:146 Resp: 26491

Ion Ratio Lower Upper

146 100

111 40.0 32.8 49.2

148 66.0 51.1 76.7



#84

n-Butylbenzene

Concen: 2.551 ug/l

RT: 12.200 min Scan# 3393

Delta R.T. -0.000 min

Lab File: VU063240.D

Acq: 11 Feb 2025 17:01

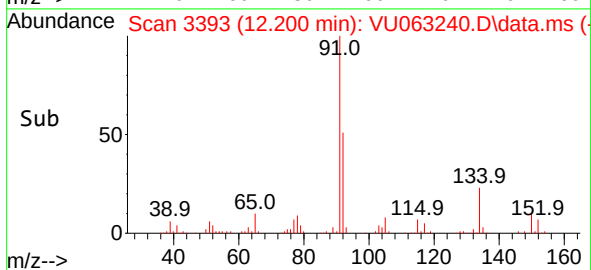
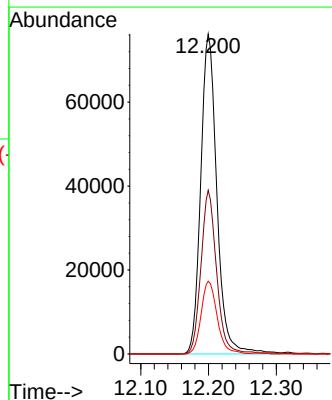
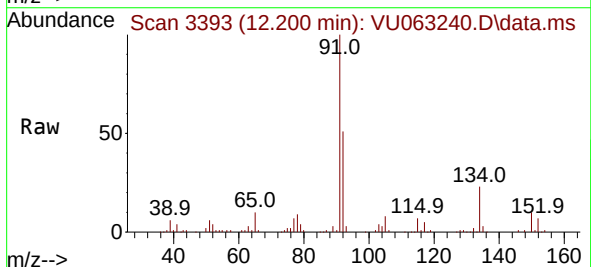
Tgt Ion: 91 Resp: 126225

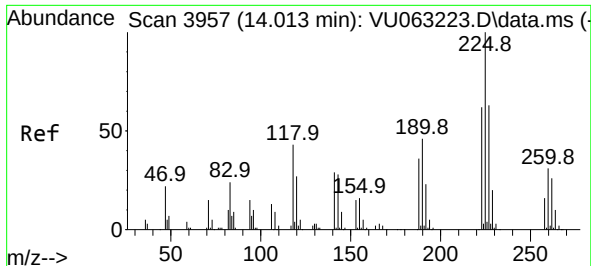
Ion Ratio Lower Upper

91 100

92 49.9 41.8 62.8

134 22.6 18.6 28.0

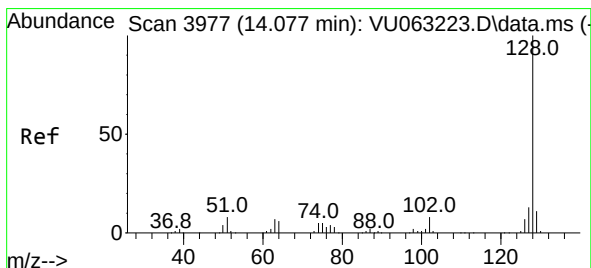
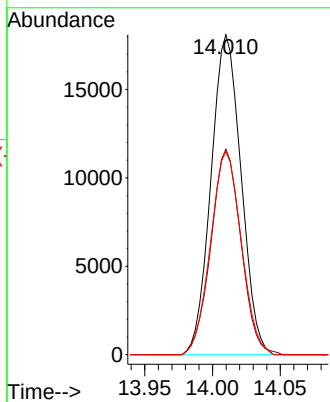
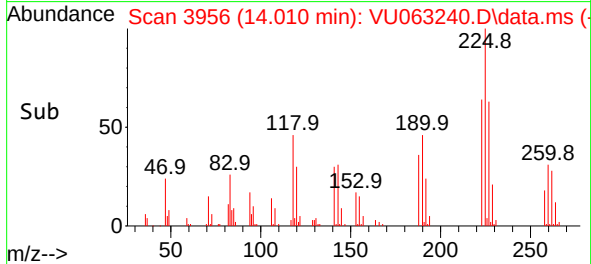
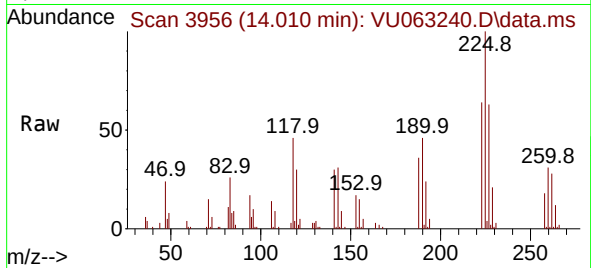




#88
Hexachlorobutadiene
Concen: 2.718 ug/l
RT: 14.010 min Scan# 3957
Delta R.T. -0.003 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

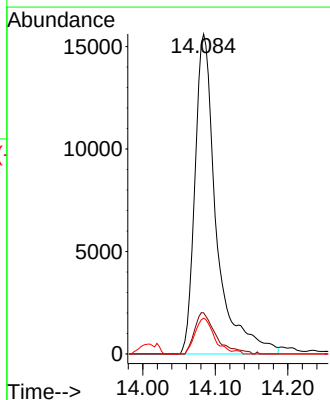
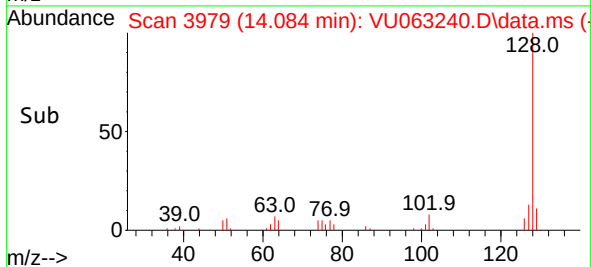
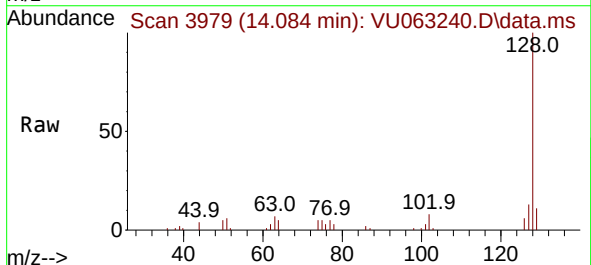
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

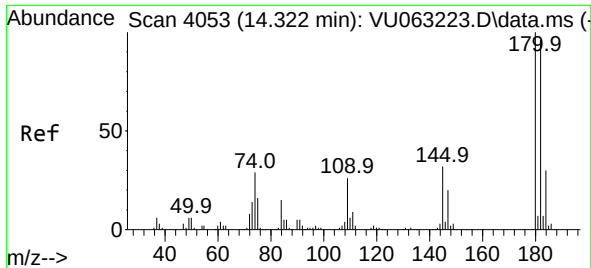
Tgt Ion:	225	Resp:	27884
Ion Ratio	Lower	Upper	
225	100		
223	64.2	49.5	74.3
227	64.9	51.0	76.4



#89
Naphthalene
Concen: 1.655 ug/l
RT: 14.084 min Scan# 3979
Delta R.T. 0.006 min
Lab File: VU063240.D
Acq: 11 Feb 2025 17:01

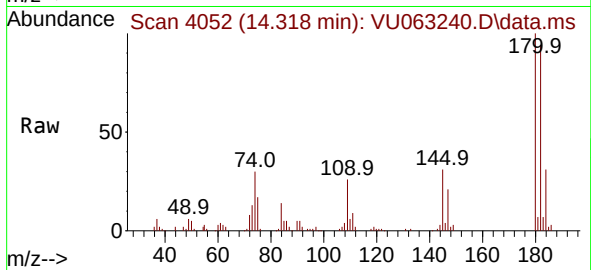
Tgt Ion:	128	Resp:	32015
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.6	16.0
129	9.9	8.6	13.0





#90
 1,2,3-Trichlorobenzene
 Concen: 5.672 ug/l
 RT: 14.318 min Scan# 4052
 Delta R.T. -0.003 min
 Lab File: VU063240.D
 Acq: 11 Feb 2025 17:01

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL



Tgt Ion:180 Resp: 79680
 Ion Ratio Lower Upper
 180 100
 182 95.5 78.2 117.2
 145 30.2 26.1 39.1

