

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021125\
 Data File : VU063239.D
 Acq On : 11 Feb 2025 16:36
 Operator : MD/SY
 Sample : Q1172-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Feb 12 03:20:32 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)

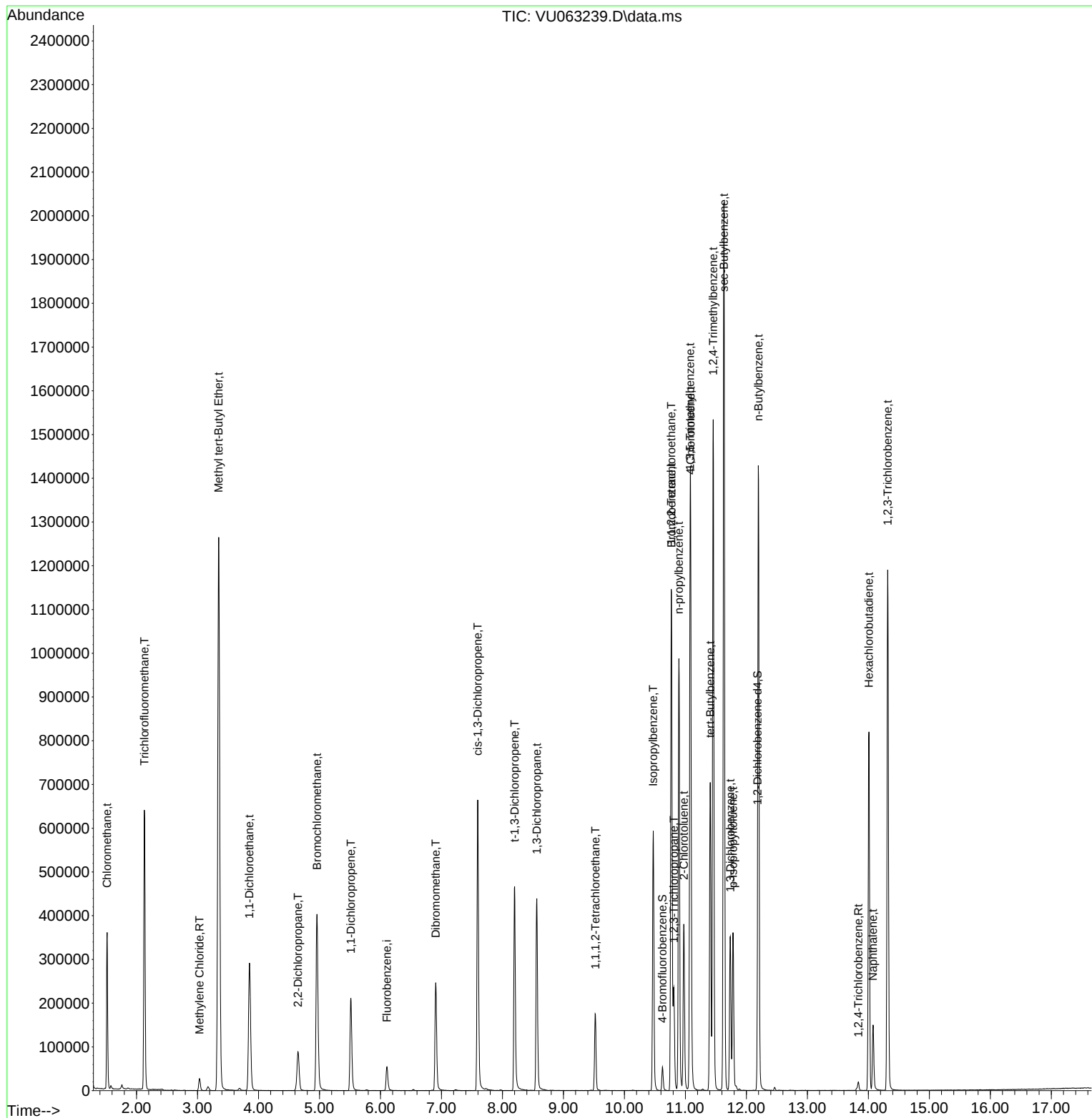
Internal Standards						
1) Fluorobenzene	6.107	96	53598	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.624	95	18604	1.052	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.000%	
68) 1,2-Dichlorobenzene-d4	12.183	152	19587	1.065	ug/l	0.00
Spiked Amount 1.000			Recovery	=	107.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	257581	12.844	ug/l	99
7) Trichlorofluoromethane	2.129	101	407921	17.349	ug/l	98
15) Methylene Chloride	3.033	84	13691	0.815	ug/l	95
17) 1,1-Dichloroethane	3.853	63	340449	11.638	ug/l	99
21) 2,2-Dichloropropane	4.650	77	66297	2.905	ug/l	94
25) Methyl tert-Butyl Ether	3.348	73	1402973	41.311	ug/l	99
26) Bromochloromethane	4.959	128	128944	17.592	ug/l	99
29) 1,1-Dichloropropene	5.515	75	115804	5.407	ug/l	99
43) Dibromomethane	6.907	93	102337	11.725	ug/l	98
50) t-1,3-Dichloropropene	8.200	75	268942	14.460	ug/l	97
51) cis-1,3-Dichloropropene	7.595	75	393743	17.137	ug/l	99
53) 1,3-Dichloropropane	8.563	76	262279	12.553	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.524	131	46415	3.231	ug/l	99
69) Isopropylbenzene	10.473	105	369443	6.235	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.769	83	90927	5.733	ug/l	97
71) 1,2,3-Trichloropropane	10.811	75	91550	7.683	ug/l #	95
72) Bromobenzene	10.772	156	271067	16.978	ug/l	96
73) n-propylbenzene	10.894	120	162026	9.550	ug/l	99
74) 2-Chlorotoluene	10.975	126	70864	4.532	ug/l	97
75) 1,3,5-Trimethylbenzene	11.077	105	382209	6.961	ug/l	99
76) 4-Chlorotoluene	11.087	126	172020	10.729	ug/l	90
77) tert-Butylbenzene	11.409	119	320379	5.770	ug/l	88
78) 1,2,4-Trimethylbenzene	11.457	105	849031	15.585	ug/l	100
79) sec-Butylbenzene	11.630	105	1390508	19.668	ug/l	100
81) p-Isopropyltoluene	11.782	119	200968	3.602	ug/l	99
82) 1,3-Dichlorobenzene	11.737	146	147818	4.773	ug/l	99
84) n-Butylbenzene	12.196	91	786049	15.711	ug/l	99
87) 1,2,4-Trichlorobenzene	13.836	180	6810	0.469	ug/l #	1
88) Hexachlorobutadiene	14.010	225	143463	13.830	ug/l	98
89) Naphthalene	14.077	128	125578	4.527	ug/l	99
90) 1,2,3-Trichlorobenzene	14.318	180	368738	25.964	ug/l	98

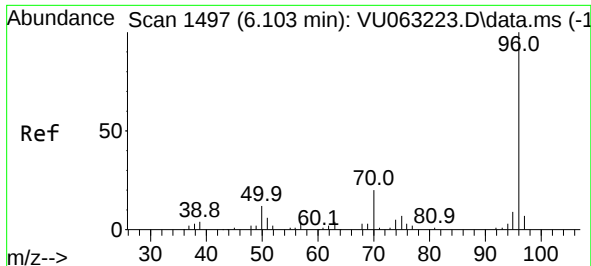
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

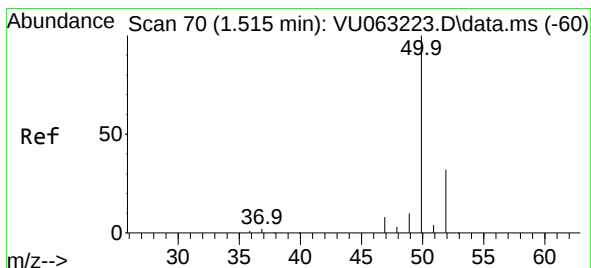
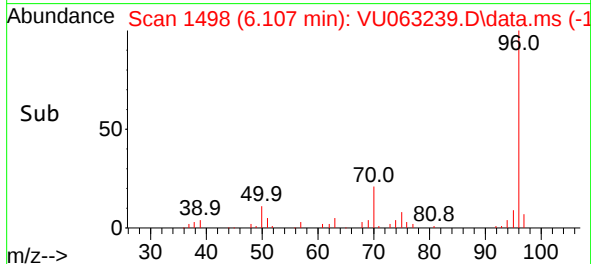
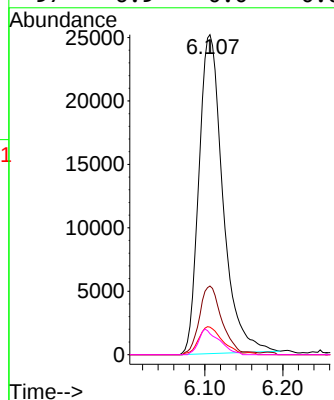
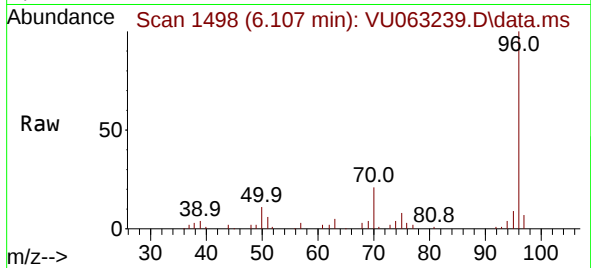




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 1497
Delta R.T. 0.004 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

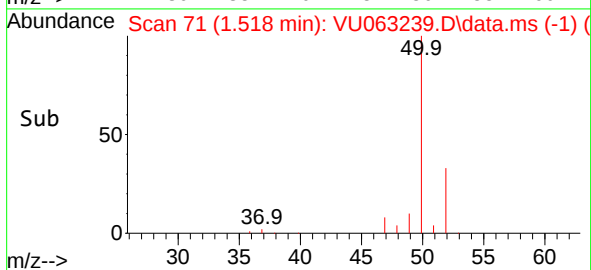
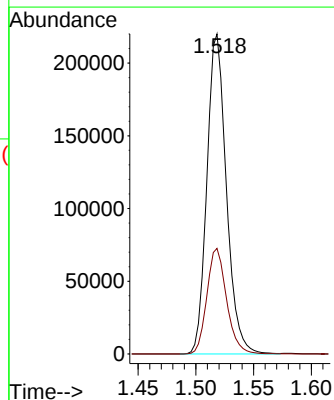
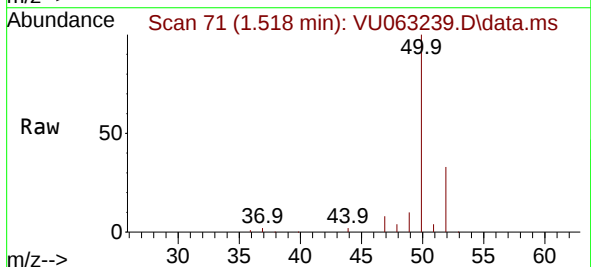
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

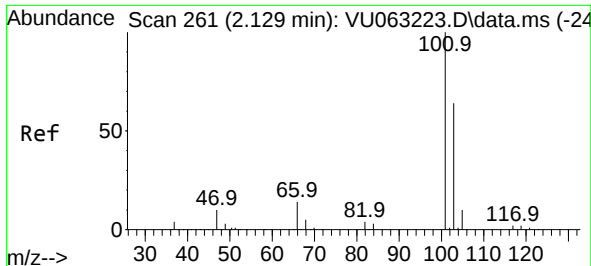
Tgt Ion: 96	Resp: 53598
Ion Ratio	Lower Upper
96 100	
70 19.7	15.6 23.4
95 8.1	7.3 10.9
97 6.9	0.0 0.0



#3
Chloromethane
Concen: 12.844 ug/l
RT: 1.518 min Scan# 71
Delta R.T. 0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion: 50	Resp: 257581
Ion Ratio	Lower Upper
50 100	
52 33.0	25.8 38.8

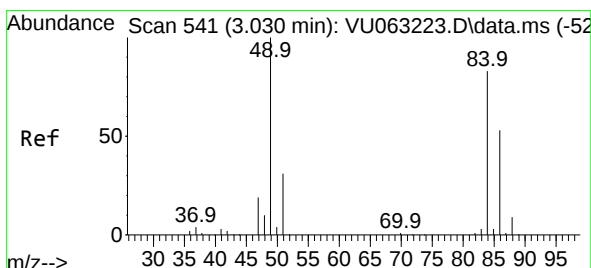
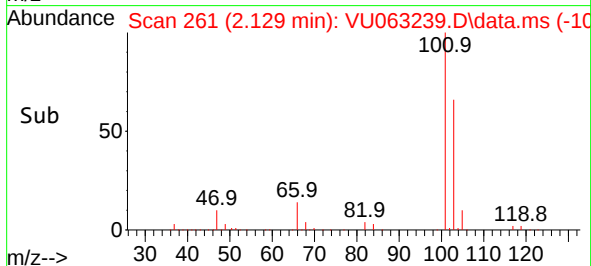
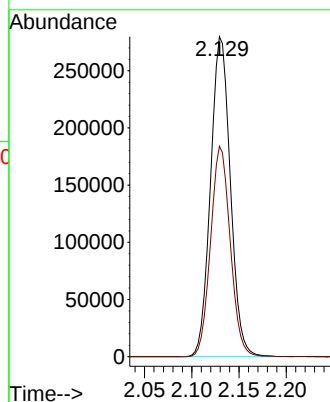
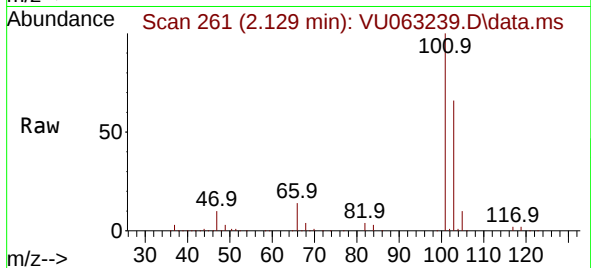




#7
 Trichlorofluoromethane
 Concen: 17.349 ug/l
 RT: 2.129 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

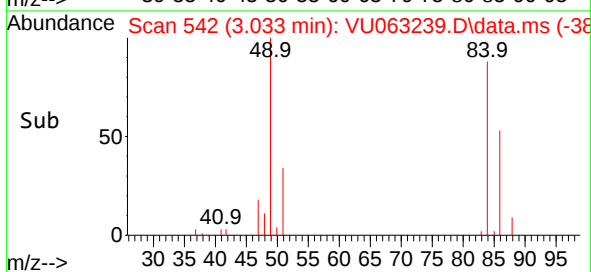
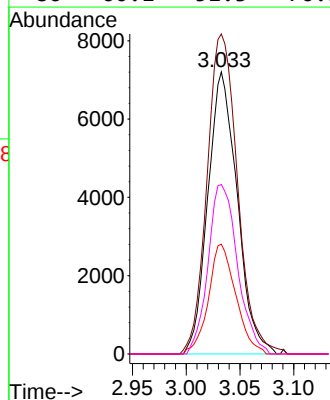
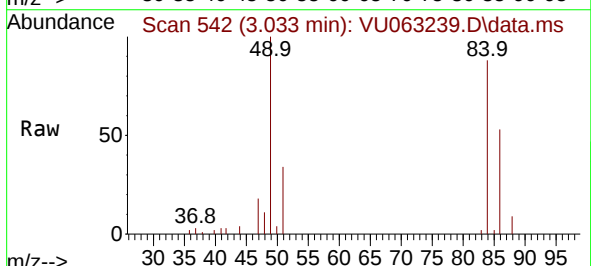
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

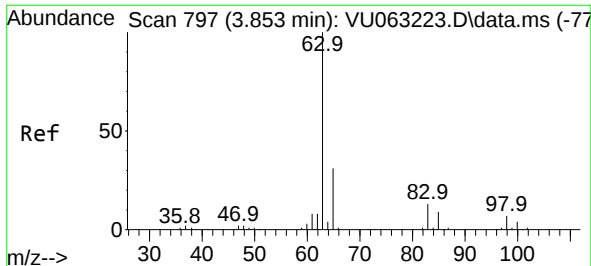
Tgt Ion:101 Resp: 407921
 Ion Ratio Lower Upper
 101 100
 103 65.7 51.4 77.2



#15
 Methylene Chloride
 Concen: 0.815 ug/l
 RT: 3.033 min Scan# 542
 Delta R.T. 0.003 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

Tgt Ion: 84 Resp: 13691
 Ion Ratio Lower Upper
 84 100
 49 113.4 96.4 144.6
 51 38.9 0.0 74.8
 86 60.1 51.3 76.9

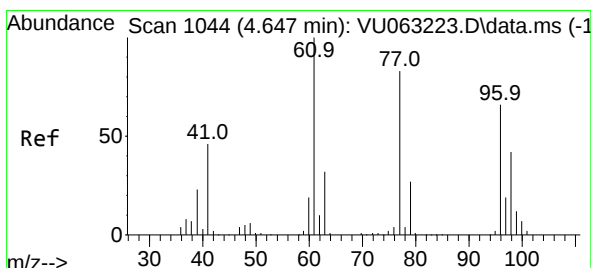
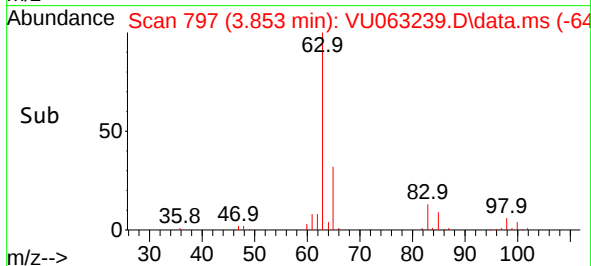
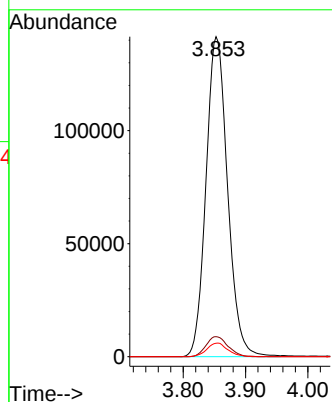
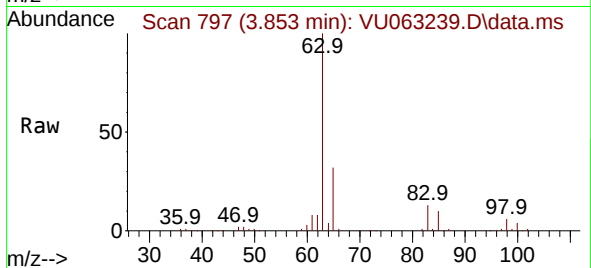




#17
 1,1-Dichloroethane
 Concen: 11.638 ug/l
 RT: 3.853 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

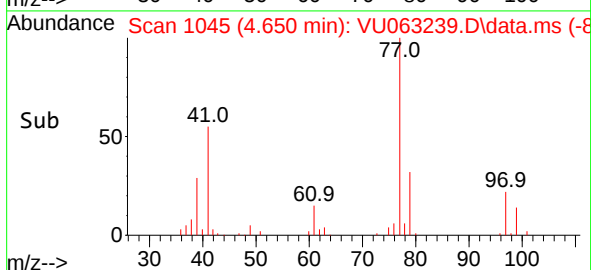
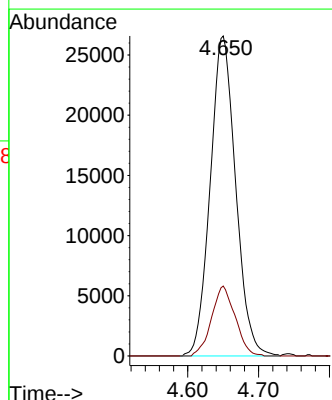
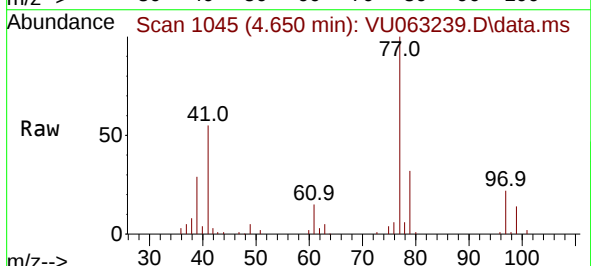
Instrument :
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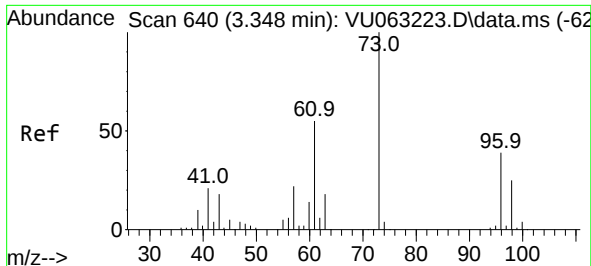
Tgt Ion: 63 Resp: 340449
 Ion Ratio Lower Upper
 63 100
 98 6.2 3.3 9.9
 100 4.2 2.1 6.2



#21
 2,2-Dichloropropane
 Concen: 2.905 ug/l
 RT: 4.650 min Scan# 1045
 Delta R.T. 0.003 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

Tgt Ion: 77 Resp: 66297
 Ion Ratio Lower Upper
 77 100
 97 20.3 18.5 27.7

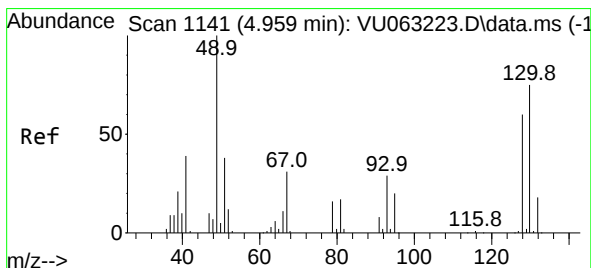
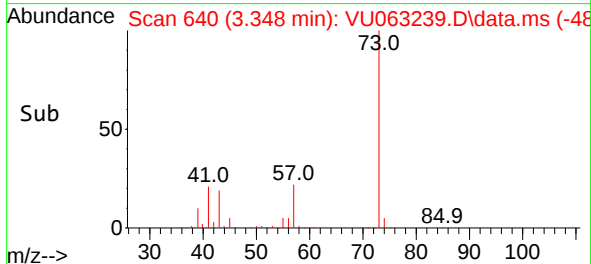
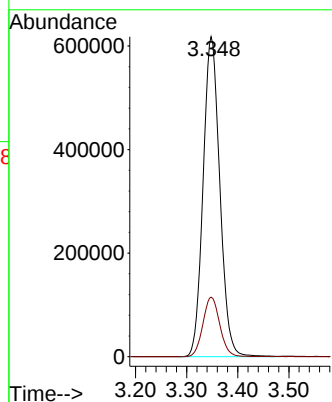
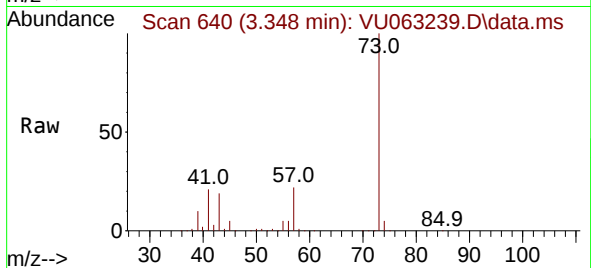




#25
Methyl tert-Butyl Ether
Concen: 41.311 ug/l
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

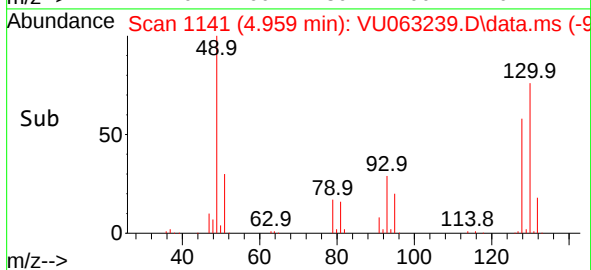
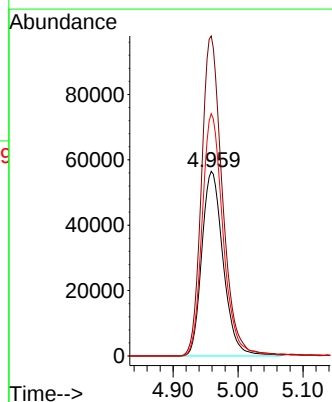
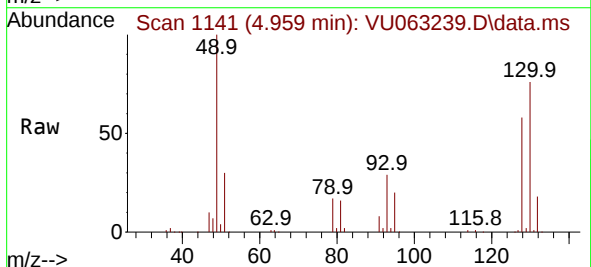
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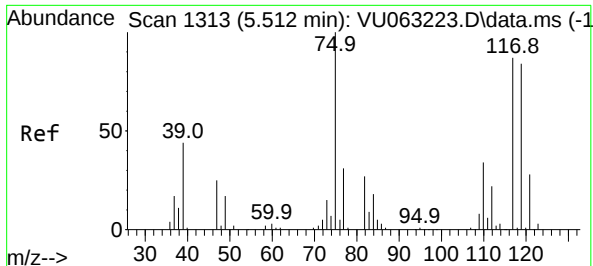
Tgt Ion: 73 Resp: 1402973
Ion Ratio Lower Upper
73 100
43 18.9 14.9 22.3



#26
Bromochloromethane
Concen: 17.592 ug/l
RT: 4.959 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion: 128 Resp: 128944
Ion Ratio Lower Upper
128 100
49 170.0 0.0 343.4
130 128.7 102.9 154.3

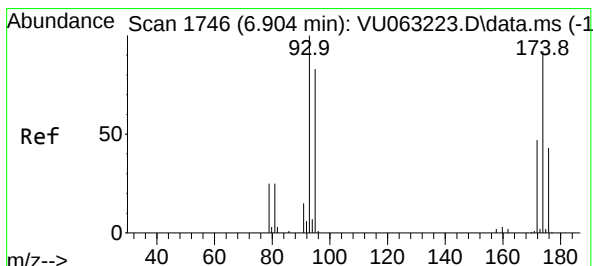
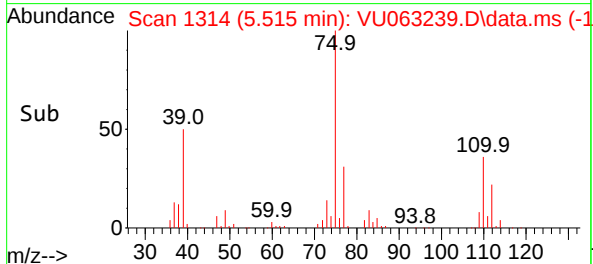
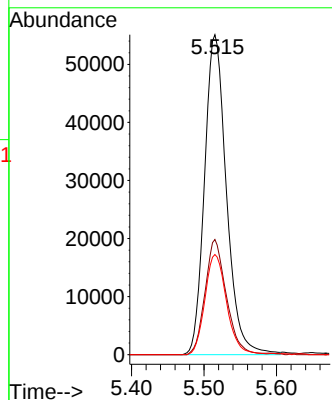
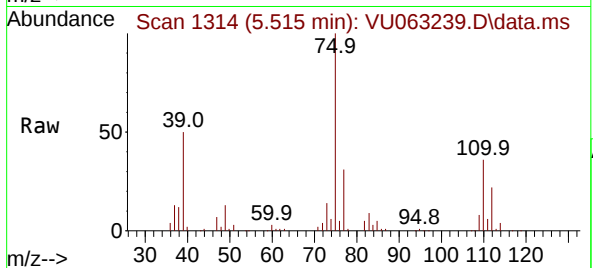




#29
1,1-Dichloropropene
Concen: 5.407 ug/l
RT: 5.515 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

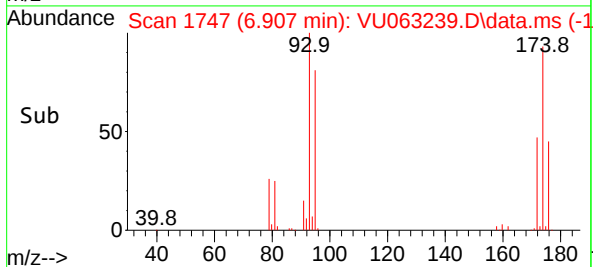
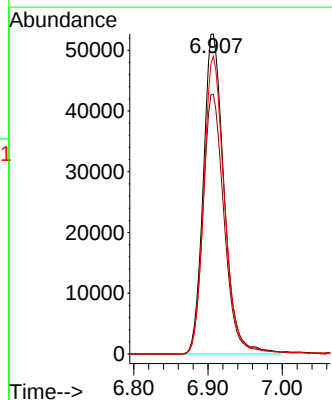
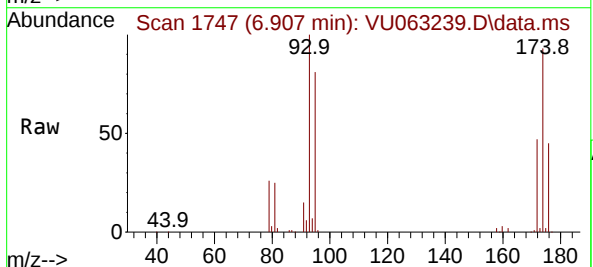
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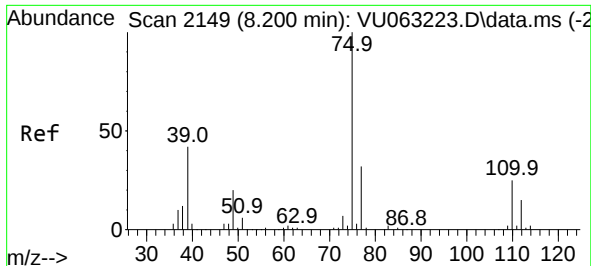
Tgt Ion: 75 Resp: 115804
Ion Ratio Lower Upper
75 100
110 34.8 17.2 51.5
77 31.0 24.6 37.0



#43
Dibromomethane
Concen: 11.725 ug/l
RT: 6.907 min Scan# 1747
Delta R.T. 0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion: 93 Resp: 102337
Ion Ratio Lower Upper
93 100
95 82.5 67.2 100.8
174 92.3 75.7 113.5





#50

t-1,3-Dichloropropene

Concen: 14.460 ug/l

RT: 8.200 min Scan# 2149

Delta R.T. -0.000 min

Lab File: VU063239.D

Acq: 11 Feb 2025 16:36

Instrument :

MSVOA_U

ClientSampleId :

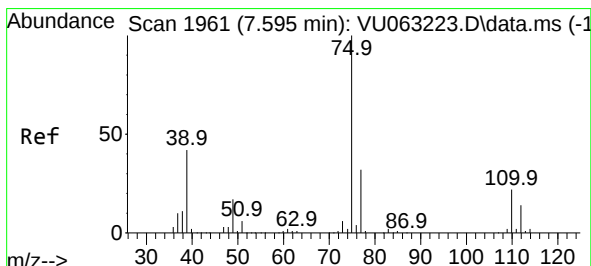
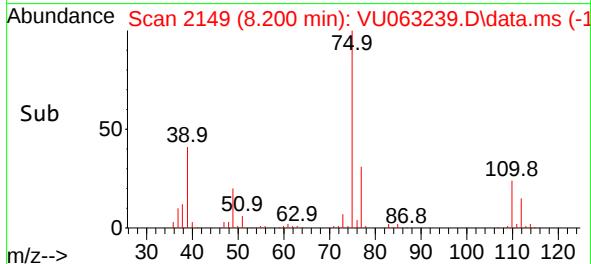
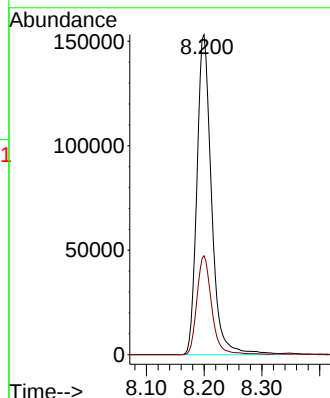
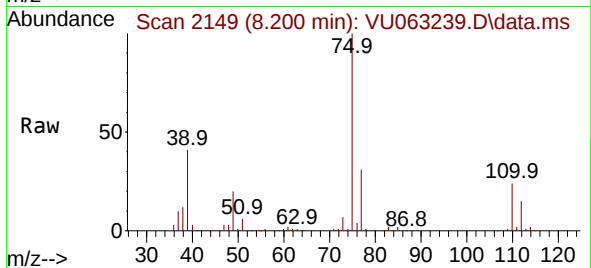
PT-UNRVOA-WS

Tgt Ion: 75 Resp: 268942

Ion Ratio Lower Upper

75 100

77 30.9 25.9 38.9



#51

cis-1,3-Dichloropropene

Concen: 17.137 ug/l

RT: 7.595 min Scan# 1961

Delta R.T. -0.000 min

Lab File: VU063239.D

Acq: 11 Feb 2025 16:36

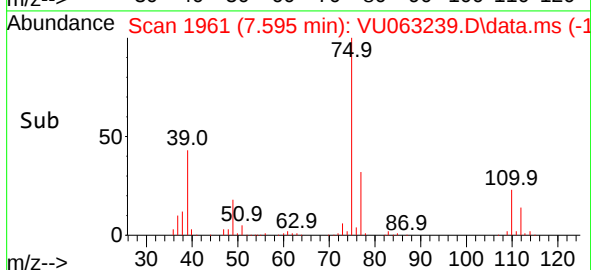
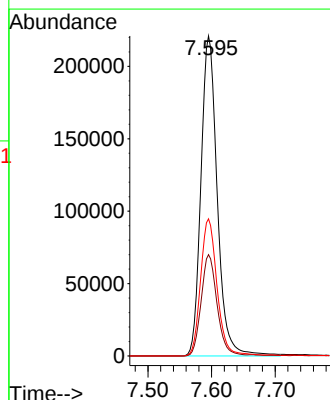
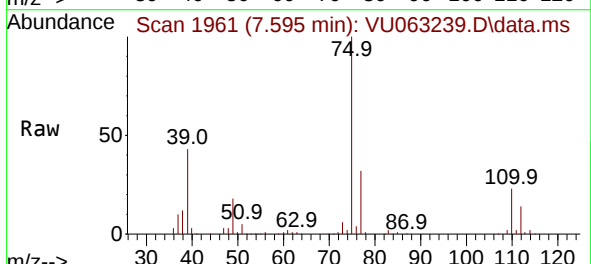
Tgt Ion: 75 Resp: 393743

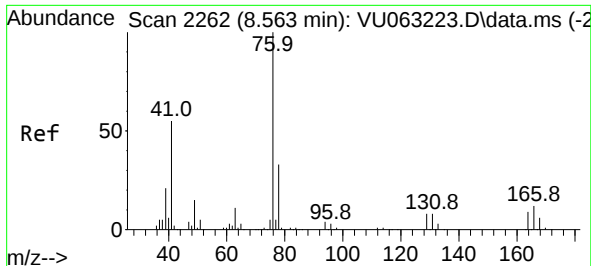
Ion Ratio Lower Upper

75 100

77 31.6 25.3 37.9

39 42.9 33.5 50.3





#53

1,3-Dichloropropane

Concen: 12.553 ug/l

RT: 8.563 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU063239.D

Acq: 11 Feb 2025 16:36

Instrument :

MSVOA_U

ClientSampleId :

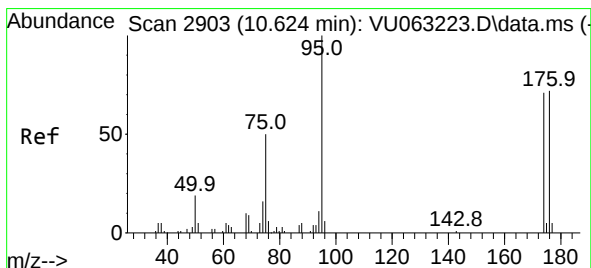
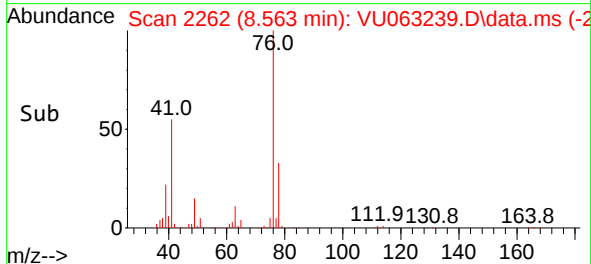
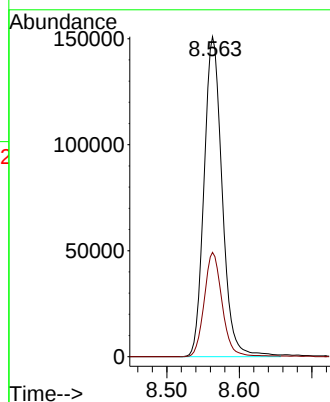
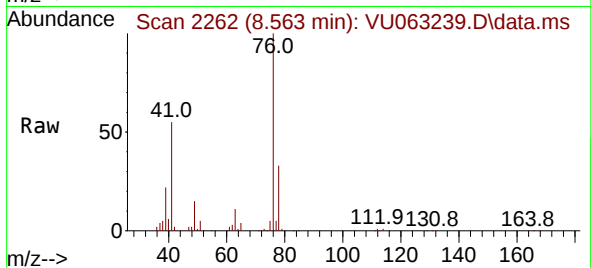
PT-UNRVOA-WS

Tgt Ion: 76 Resp: 262279

Ion Ratio Lower Upper

76 100

78 32.3 26.3 39.5



#57

4-Bromofluorobenzene

Concen: 1.052 ug/l

RT: 10.624 min Scan# 2903

Delta R.T. -0.000 min

Lab File: VU063239.D

Acq: 11 Feb 2025 16:36

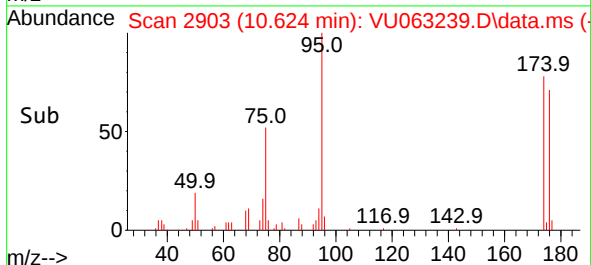
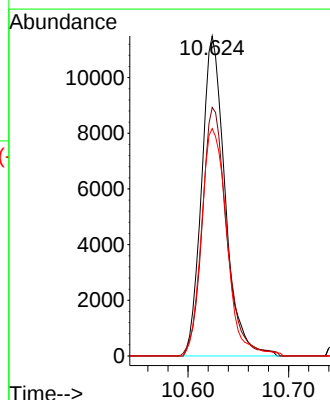
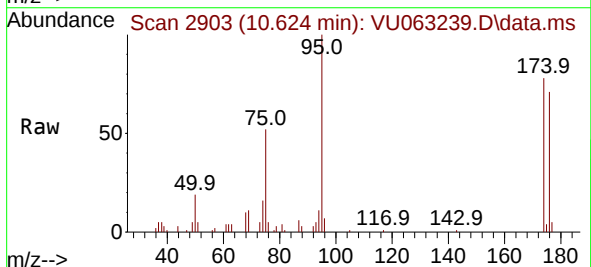
Tgt Ion: 95 Resp: 18604

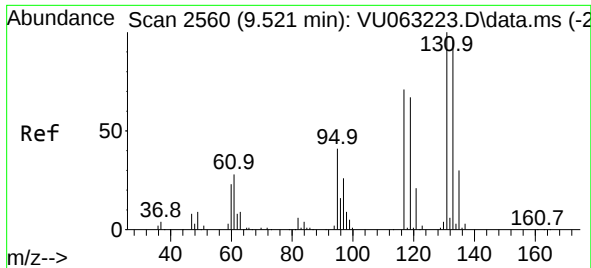
Ion Ratio Lower Upper

95 100

174 81.1 58.6 88.0

176 77.3 58.2 87.4

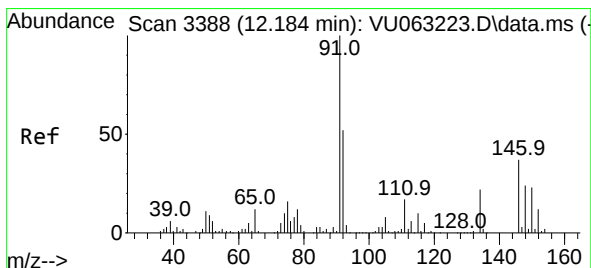
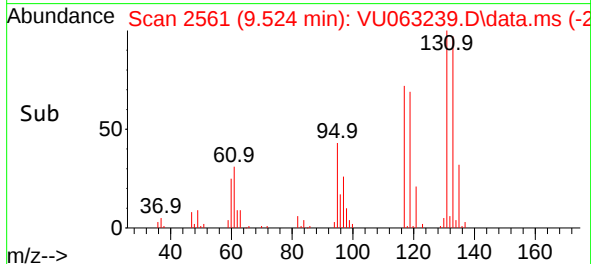
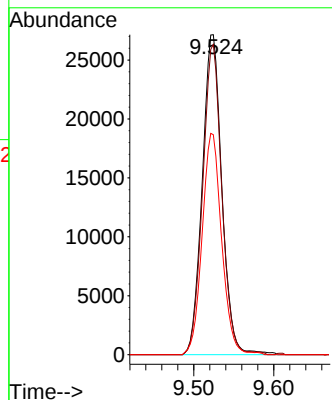
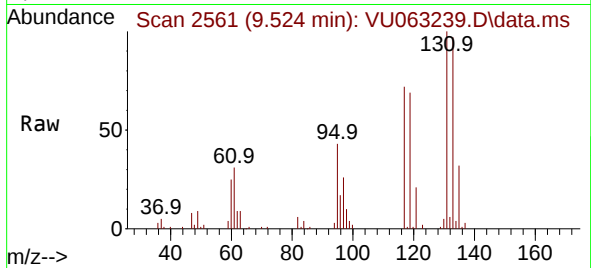




#60
 1,1,1,2-Tetrachloroethane
 Concen: 3.231 ug/l
 RT: 9.524 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

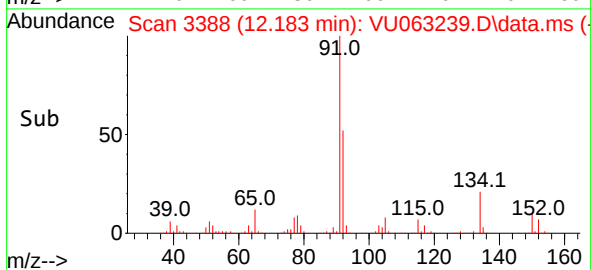
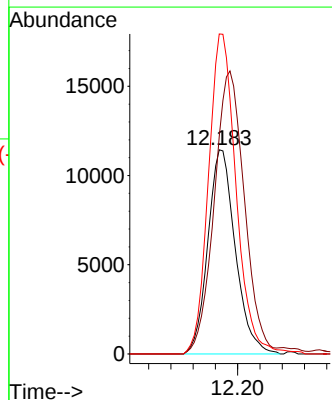
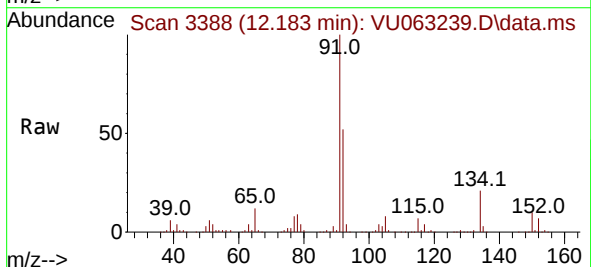
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

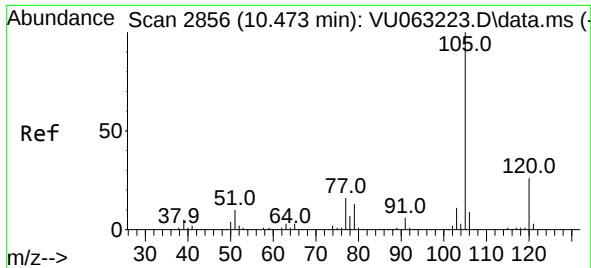
Tgt Ion:131 Resp: 46415
 Ion Ratio Lower Upper
 131 100
 133 94.7 76.7 115.1
 119 68.7 54.4 81.6



#68
 1,2-Dichlorobenzene-d4
 Concen: 1.065 ug/l
 RT: 12.183 min Scan# 3388
 Delta R.T. -0.000 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

Tgt Ion:152 Resp: 19587
 Ion Ratio Lower Upper
 152 100
 115 152.3 0.0 275.2
 150 158.1 0.0 658.4

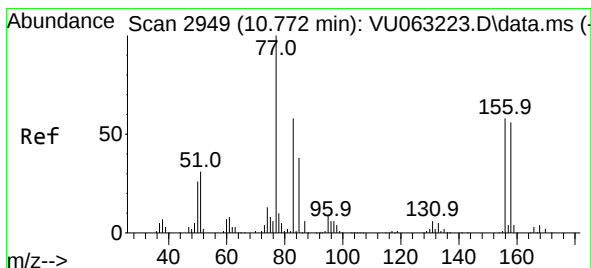
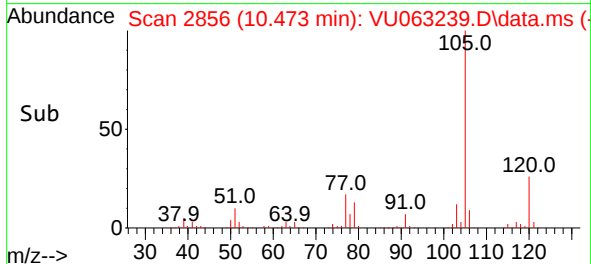
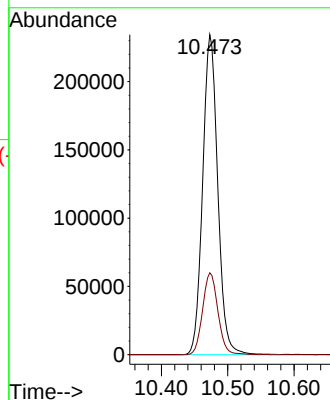
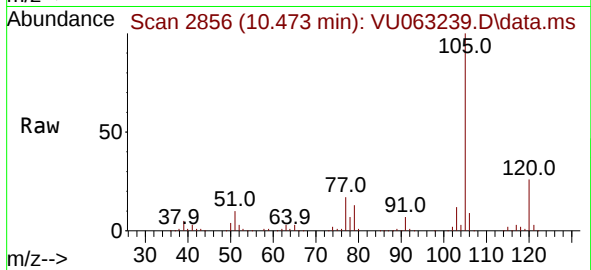




#69
Isopropylbenzene
Concen: 6.235 ug/l
RT: 10.473 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

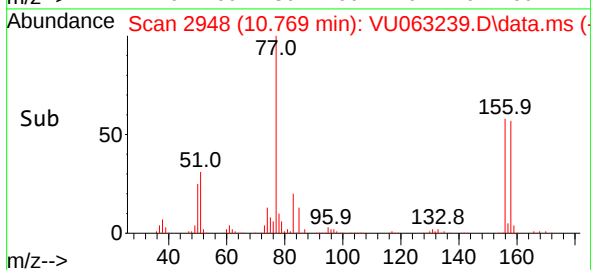
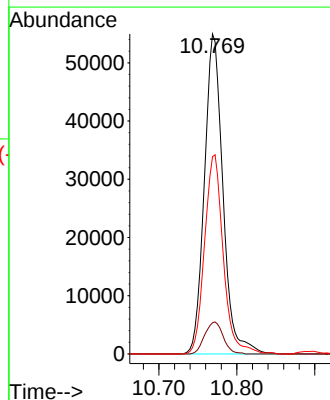
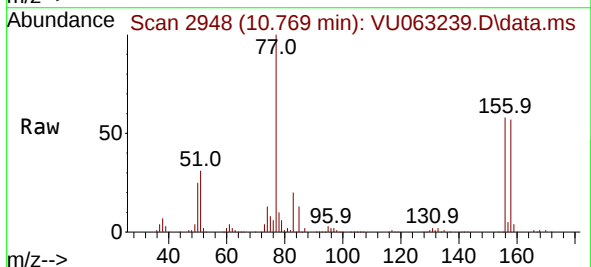
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

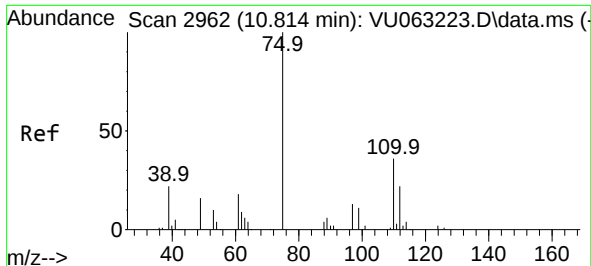
Tgt Ion:105 Resp: 369443
Ion Ratio Lower Upper
105 100
120 25.9 12.8 38.4



#70
1,1,2,2-Tetrachloroethane
Concen: 5.733 ug/l
RT: 10.769 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion: 83 Resp: 90927
Ion Ratio Lower Upper
83 100
131 10.0 7.4 11.0
85 62.6 51.8 77.8

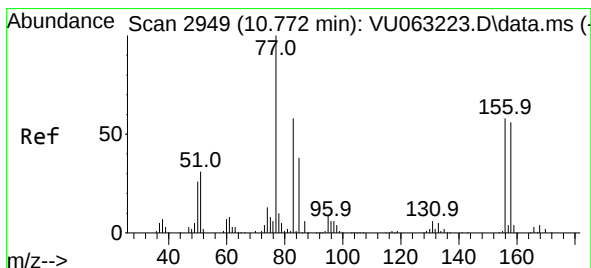
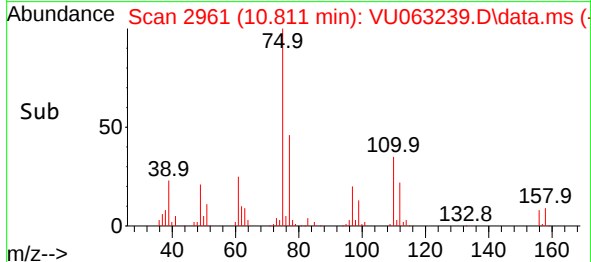
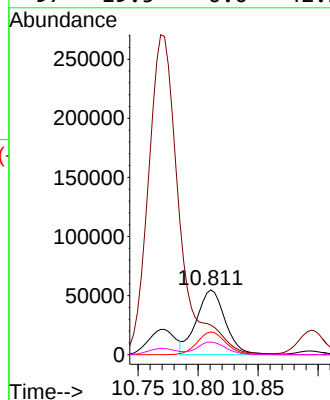
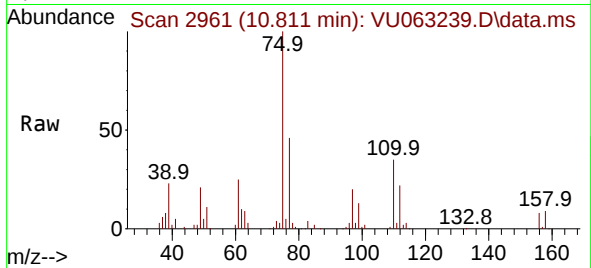




#71
1,2,3-Trichloropropane
Concen: 7.683 ug/l
RT: 10.811 min Scan# 2961
Delta R.T. -0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

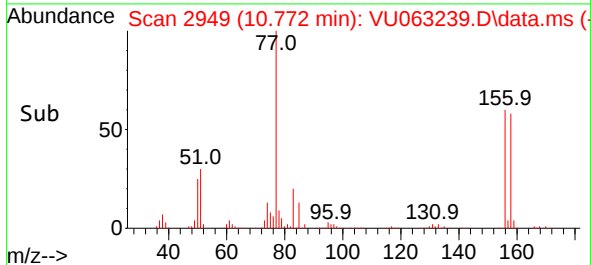
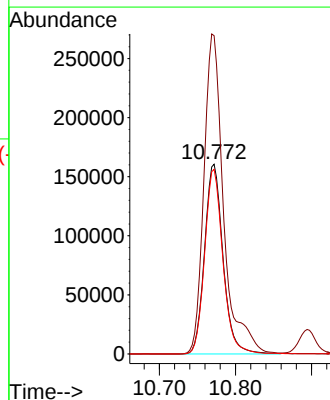
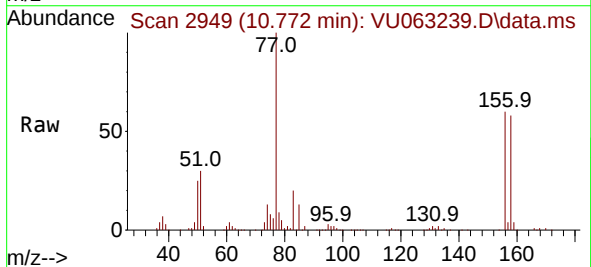
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

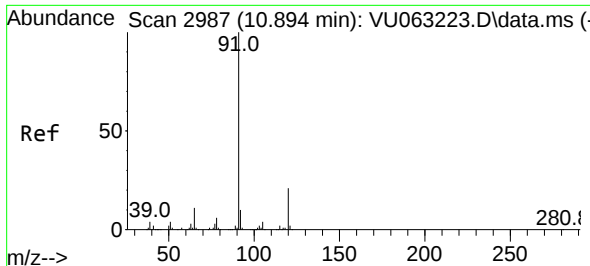
Tgt Ion:	75	Resp:	91550
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	35.0	0.0	77.0
97	19.5	0.0	42.2



#72
Bromobenzene
Concen: 16.978 ug/l
RT: 10.772 min Scan# 2949
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion:	156	Resp:	271067
Ion	Ratio	Lower	Upper
156	100		
77	179.8	0.0	343.6
158	96.5	0.0	193.0

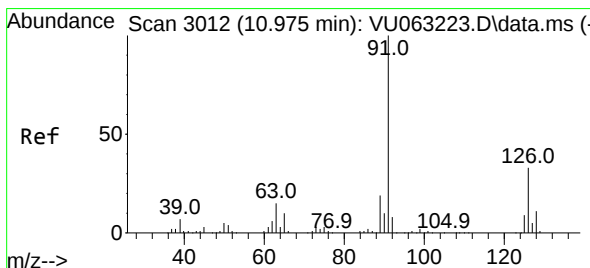
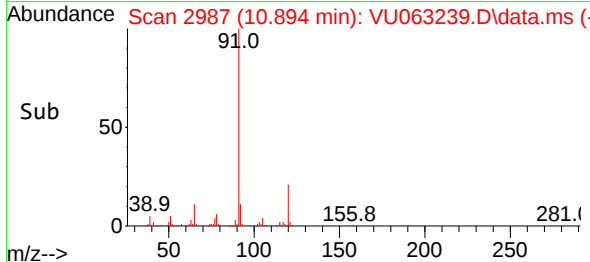
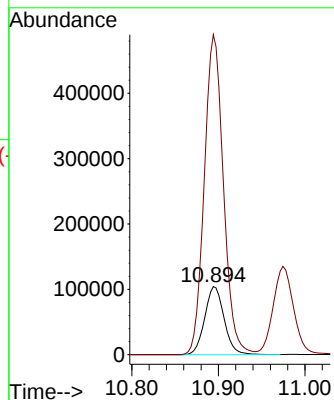
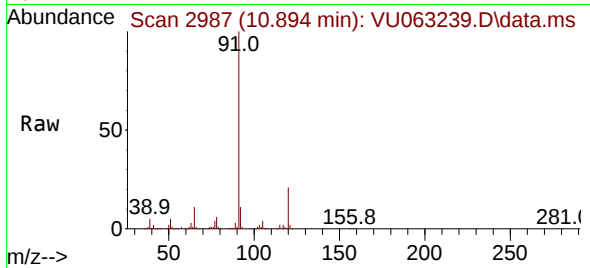




#73
n-propylbenzene
Concen: 9.550 ug/l
RT: 10.894 min Scan# 2987
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

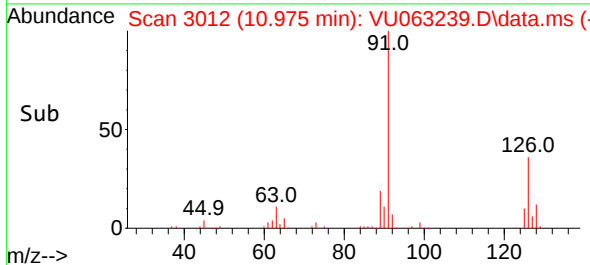
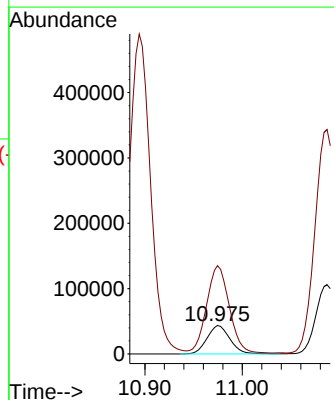
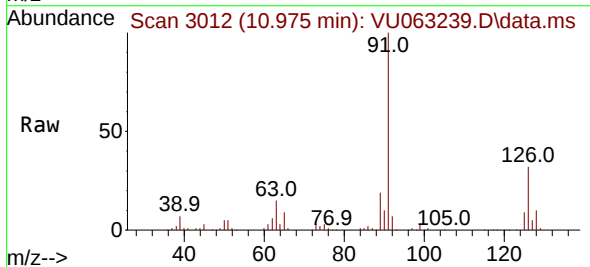
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

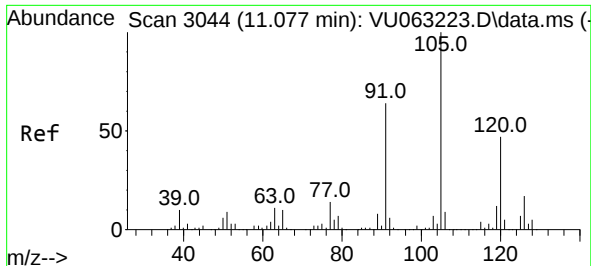
Tgt Ion:120 Resp: 162026
Ion Ratio Lower Upper
120 100
91 465.0 369.8 554.6



#74
2-Chlorotoluene
Concen: 4.532 ug/l
RT: 10.975 min Scan# 3012
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion:126 Resp: 70864
Ion Ratio Lower Upper
126 100
91 305.5 0.0 623.8

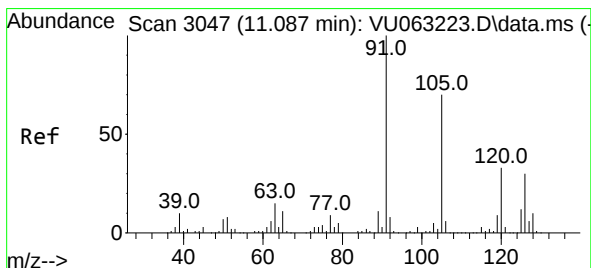
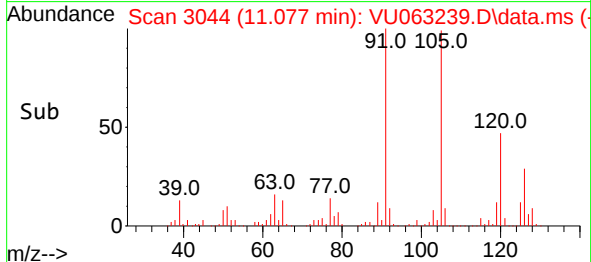
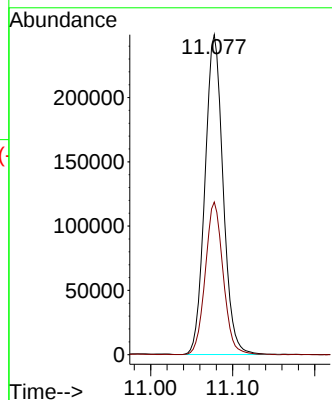
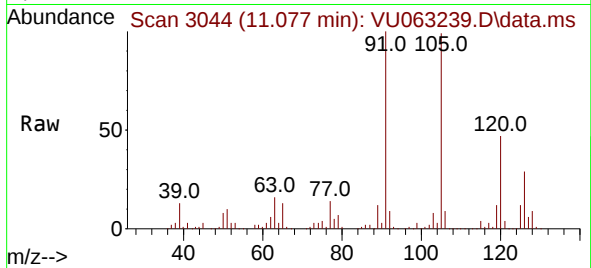




#75
1,3,5-Trimethylbenzene
Concen: 6.961 ug/l
RT: 11.077 min Scan# 3044
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

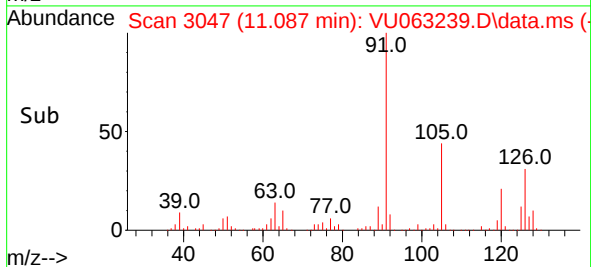
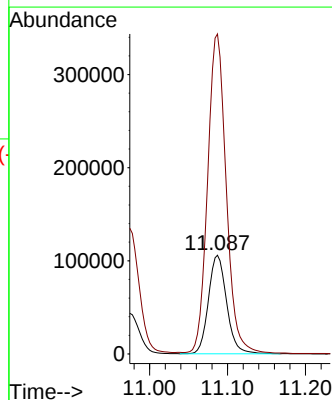
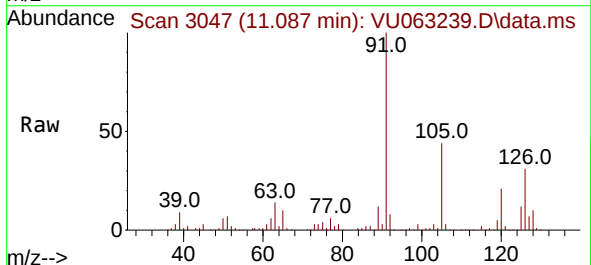
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MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

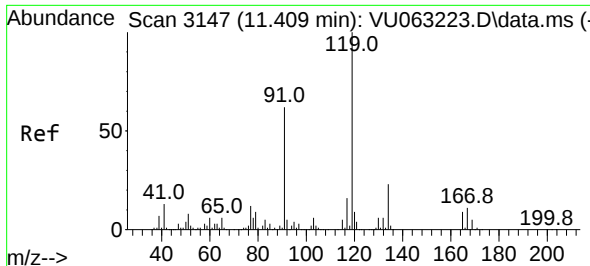
Tgt Ion:105 Resp: 382209
Ion Ratio Lower Upper
105 100
120 47.2 37.3 55.9



#76
4-Chlorotoluene
Concen: 10.729 ug/l
RT: 11.087 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion:126 Resp: 172020
Ion Ratio Lower Upper
126 100
91 330.4 0.0 703.6

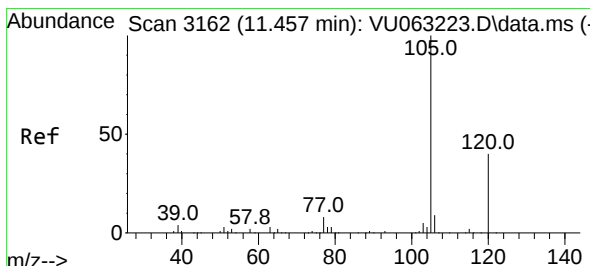
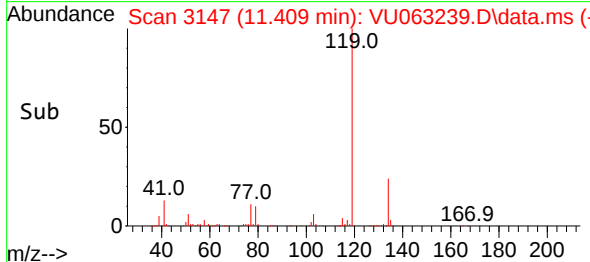
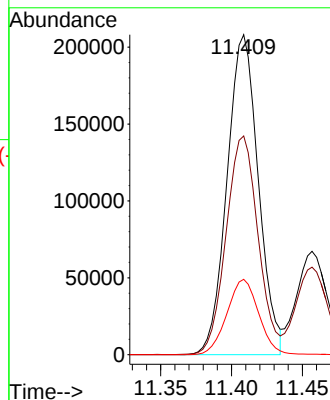
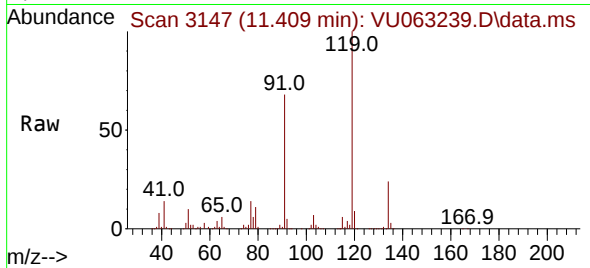




#77
tert-Butylbenzene
Concen: 5.770 ug/l
RT: 11.409 min Scan# 3147
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

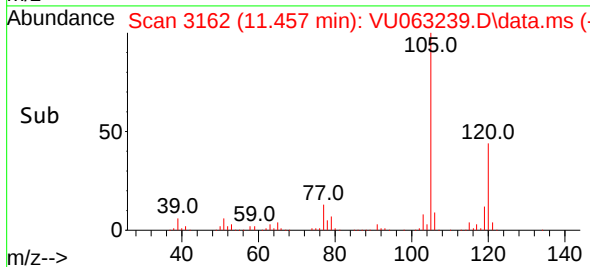
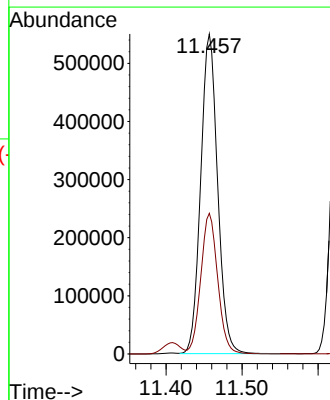
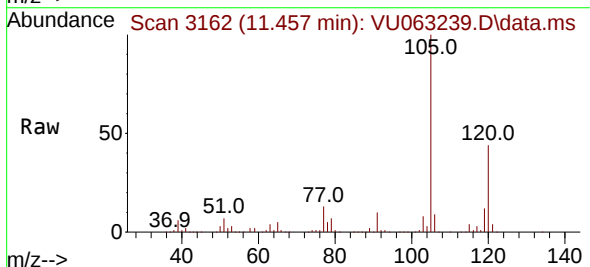
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MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

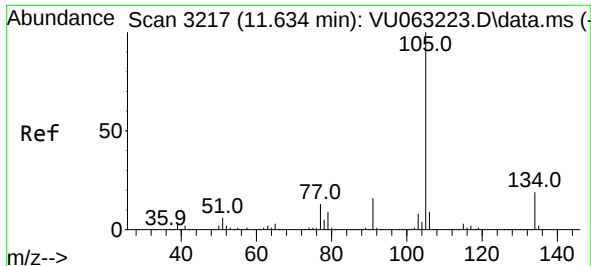
Tgt Ion:119 Resp: 320379
Ion Ratio Lower Upper
119 100
91 69.8 29.4 88.3
134 24.0 17.6 26.4



#78
1,2,4-Trimethylbenzene
Concen: 15.585 ug/l
RT: 11.457 min Scan# 3162
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion:105 Resp: 849031
Ion Ratio Lower Upper
105 100
120 44.1 21.9 65.7

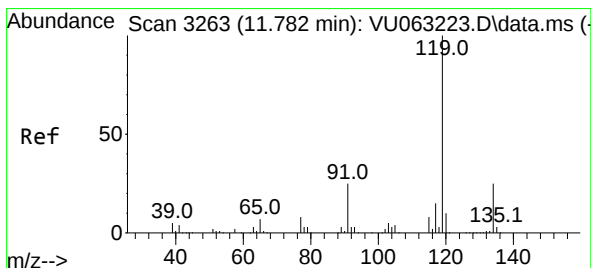
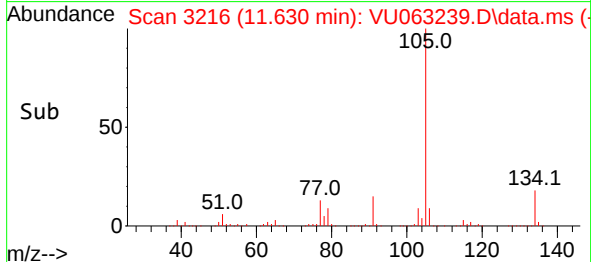
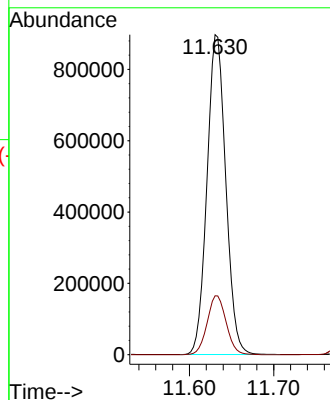
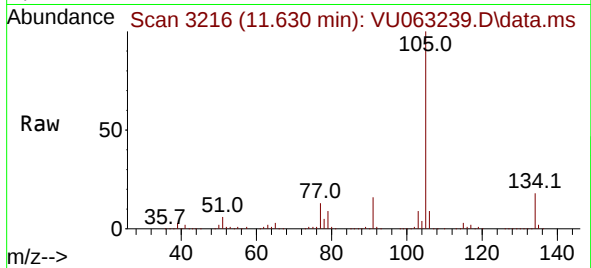




#79
 sec-Butylbenzene
 Concen: 19.668 ug/l
 RT: 11.630 min Scan# 3217
 Delta R.T. -0.003 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

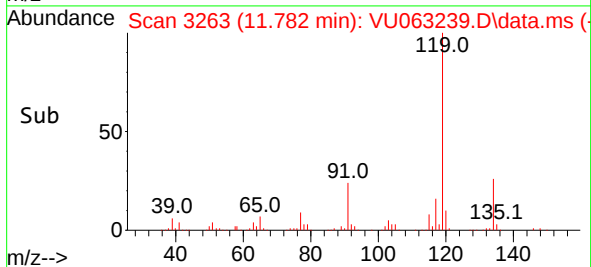
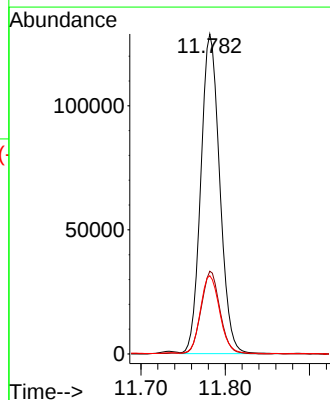
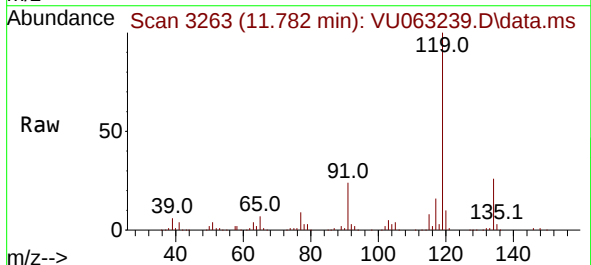
Instrument :
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 ClientSampleId :
 PT-UNRVOA-WS

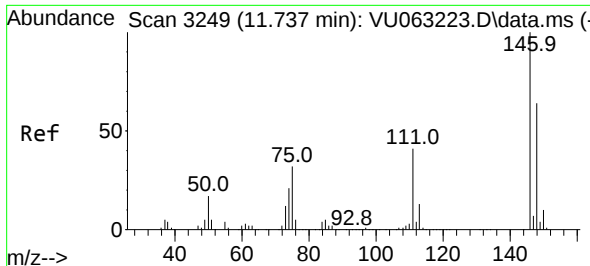
Tgt Ion:105 Resp: 1390508
 Ion Ratio Lower Upper
 105 100
 134 18.7 15.1 22.7



#81
 p-Isopropyltoluene
 Concen: 3.602 ug/l
 RT: 11.782 min Scan# 3263
 Delta R.T. -0.000 min
 Lab File: VU063239.D
 Acq: 11 Feb 2025 16:36

Tgt Ion:119 Resp: 200968
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.3 30.5
 91 24.9 19.4 29.2

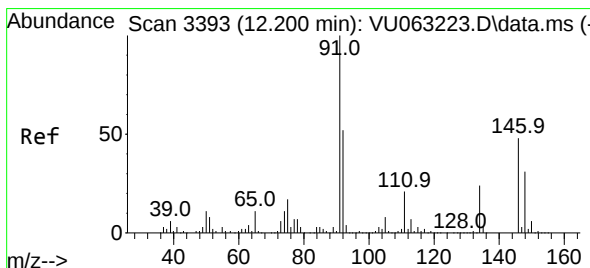
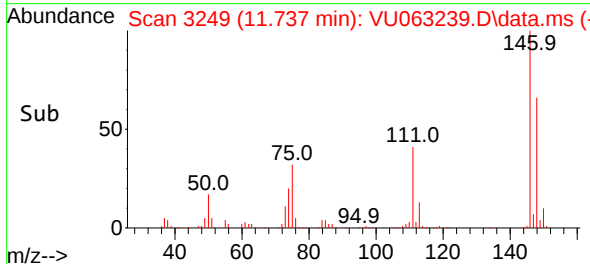
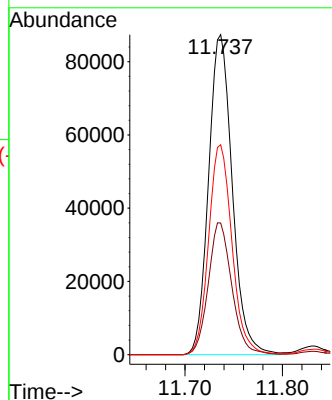
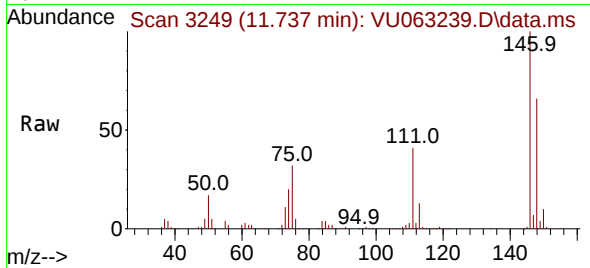




#82
1,3-Dichlorobenzene
Concen: 4.773 ug/l
RT: 11.737 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

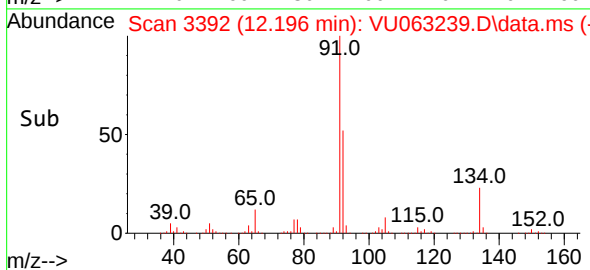
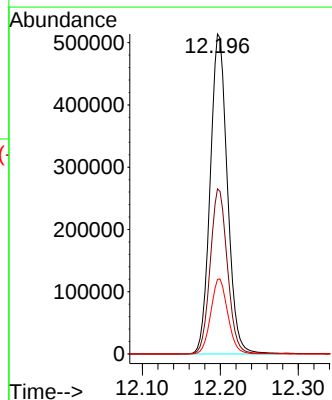
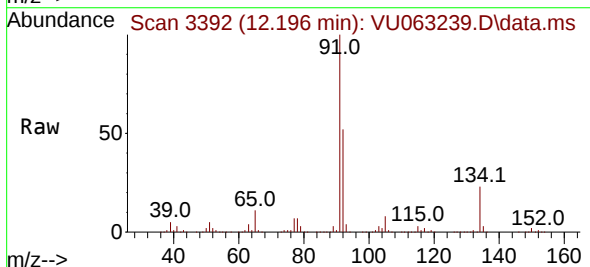
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

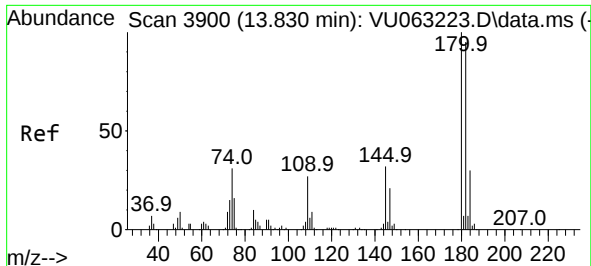
Tgt Ion:146 Resp: 147818
Ion Ratio Lower Upper
146 100
111 40.9 32.8 49.2
148 64.6 51.1 76.7



#84
n-Butylbenzene
Concen: 15.711 ug/l
RT: 12.196 min Scan# 3392
Delta R.T. -0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion: 91 Resp: 786049
Ion Ratio Lower Upper
91 100
92 51.7 41.8 62.8
134 23.4 18.6 28.0

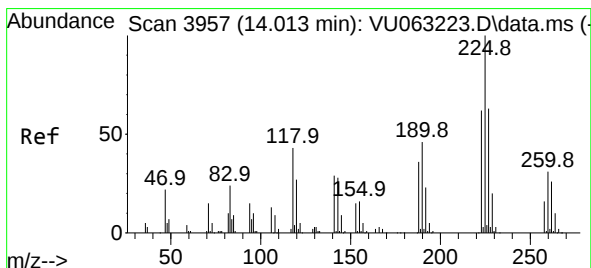
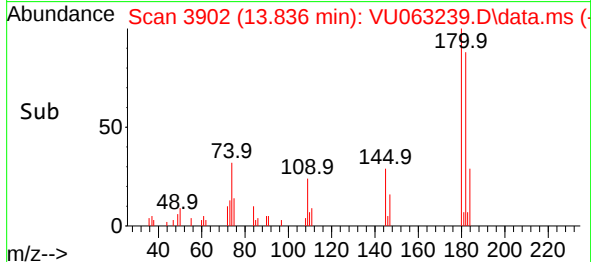
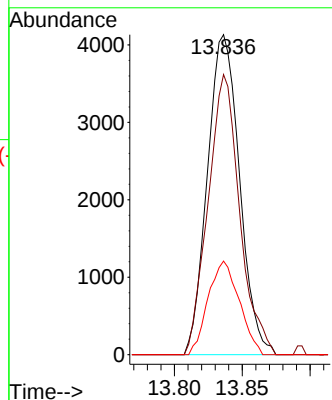
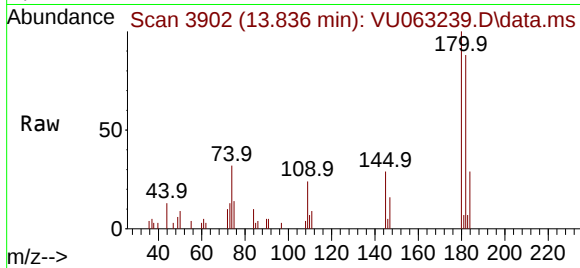




#87
1,2,4-Trichlorobenzene
Concen: 0.469 ug/l
RT: 13.836 min Scan# 3900
Delta R.T. 0.006 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

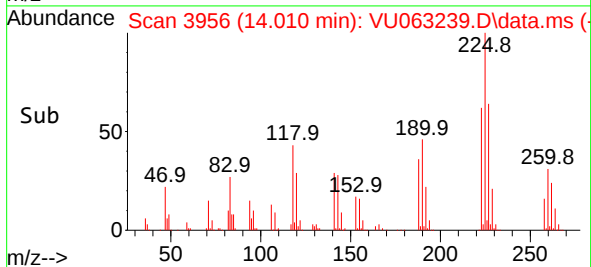
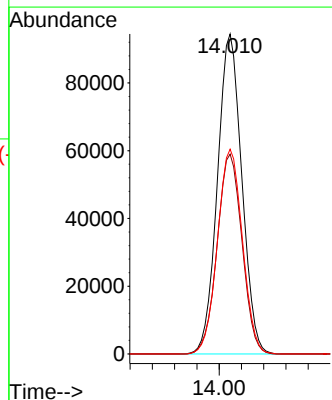
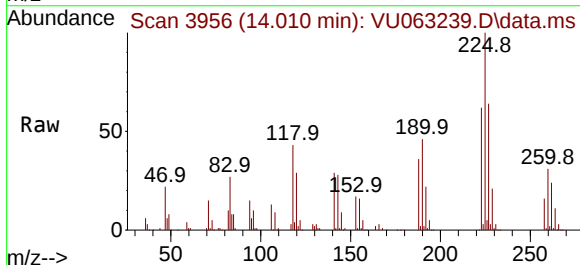
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

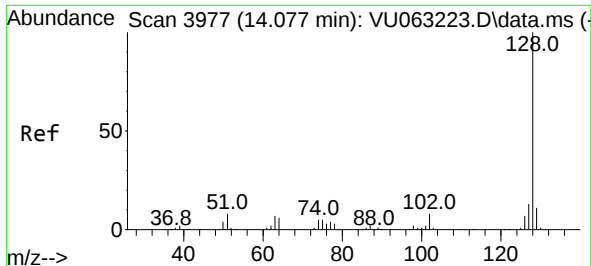
Tgt Ion:180 Resp: 6810
Ion Ratio Lower Upper
180 100
182 0.0 76.6 115.0#
145 199.5 25.4 38.2#



#88
Hexachlorobutadiene
Concen: 13.830 ug/l
RT: 14.010 min Scan# 3956
Delta R.T. -0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion:225 Resp: 143463
Ion Ratio Lower Upper
225 100
223 63.7 49.5 74.3
227 65.6 51.0 76.4

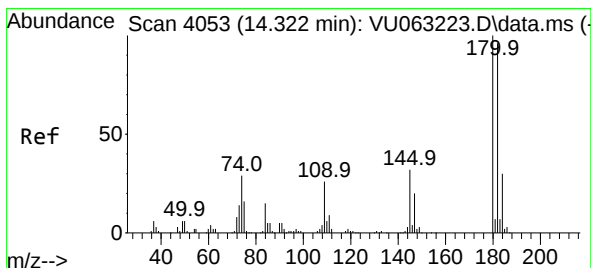
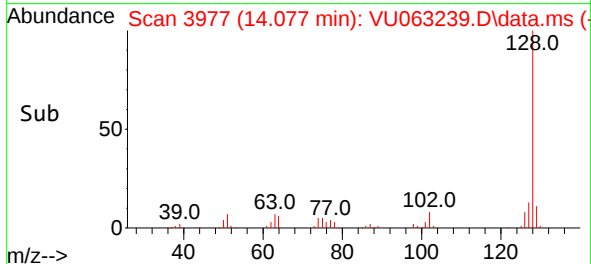
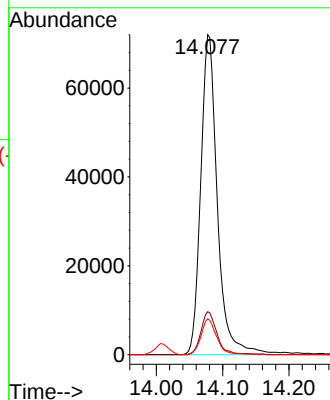
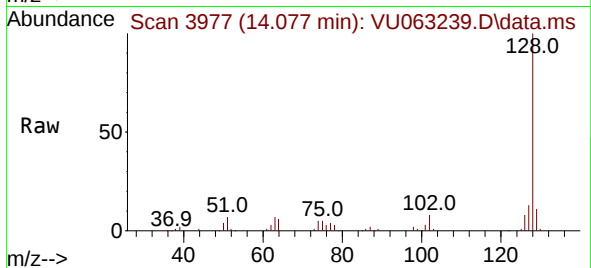




#89
Naphthalene
Concen: 4.527 ug/l
RT: 14.077 min Scan# 3977
Delta R.T. -0.000 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion:128	Resp: 125578
Ion Ratio	Lower Upper
128 100	
127 12.9	10.6 16.0
129 10.6	8.6 13.0



#90
1,2,3-Trichlorobenzene
Concen: 25.964 ug/l
RT: 14.318 min Scan# 4052
Delta R.T. -0.003 min
Lab File: VU063239.D
Acq: 11 Feb 2025 16:36

Tgt Ion:180	Resp: 368738
Ion Ratio	Lower Upper
180 100	
182 95.6	78.2 117.2
145 32.5	26.1 39.1

