

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU080724\
 Data File : VU060336.D
 Acq On : 07 Aug 2024 14:49
 Operator : MD/SY
 Sample : P3204-08DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Aug 08 05:57:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U080524DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Aug 06 11:07:28 2024
 Response via : Initial Calibration

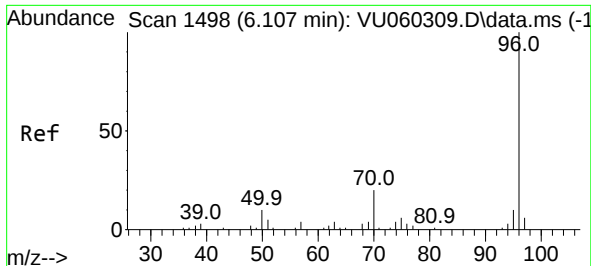
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.113	96	28707	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	10184	1.041	ug/l	0.00
Spiked Amount 1.000			Recovery	=	104.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	12616	1.187	ug/l	0.00
Spiked Amount 1.000			Recovery	=	119.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	52821	4.184	ug/l	99
5) Bromomethane	1.856	94	79616	10.267	ug/l	97
17) 1,1-Dichloroethane	3.862	63	40857	2.311	ug/l	98
21) 2,2-Dichloropropane	4.657	77	51759	3.759	ug/l	96
25) Methyl tert-Butyl Ether	3.358	73	108223	5.137	ug/l	97
26) Bromochloromethane	4.972	128	12706	3.046	ug/l	90
29) 1,1-Dichloropropene	5.521	75	29371	2.551	ug/l	98
43) Dibromomethane	6.914	93	22578	4.650	ug/l	96
50) t-1,3-Dichloropropene	8.209	75	33475	3.478	ug/l	100
51) cis-1,3-Dichloropropene	7.605	75	17655	1.525	ug/l	94
53) 1,3-Dichloropropane	8.570	76	50129	4.408	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.528	131	39836	4.747	ug/l	99
69) Isopropylbenzene	10.480	105	86318	2.522	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.775	83	39131	4.126	ug/l	98
71) 1,2,3-Trichloropropane	10.817	75	23998	3.416	ug/l	86
72) Bromobenzene	10.782	156	6484	0.741	ug/l	93
73) n-propylbenzene	10.901	120	30112	2.972	ug/l	99
74) 2-Chlorotoluene	10.981	126	36927	3.828	ug/l	98
75) 1,3,5-Trimethylbenzene	11.081	105	44152	1.633	ug/l	95
76) 4-Chlorotoluene	11.094	126	19837	2.130	ug/l	89
77) tert-Butylbenzene	11.412	119	101562	3.312	ug/l	89
78) 1,2,4-Trimethylbenzene	11.463	105	113919	3.395	ug/l	98
79) sec-Butylbenzene	11.637	105	129793	3.123	ug/l	99
81) p-Isopropyltoluene	11.788	119	90367	2.740	ug/l	99
82) 1,3-Dichlorobenzene	11.740	146	80959	4.436	ug/l	99
84) n-Butylbenzene	12.203	91	113618	3.405	ug/l	98
88) Hexachlorobutadiene	14.016	225	12828	1.965	ug/l	99
89) Naphthalene	14.081	128	85134	4.766	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	99062	10.051	ug/l	99

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

Quant Time: Aug 08 05:57:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U080524DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Aug 06 11:07:28 2024
Response via : Initial Calibration

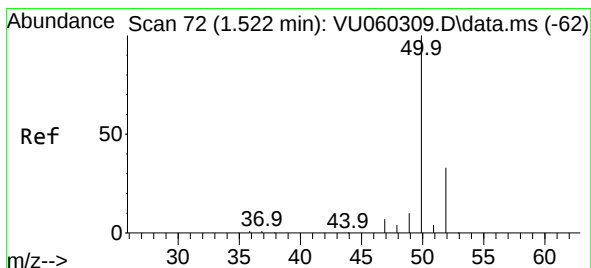
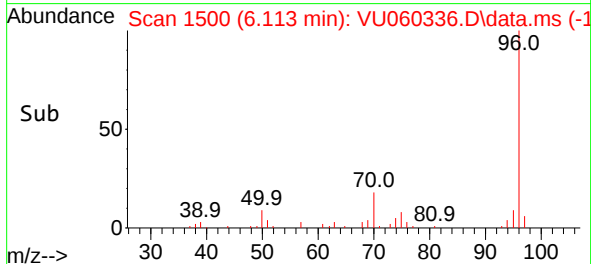
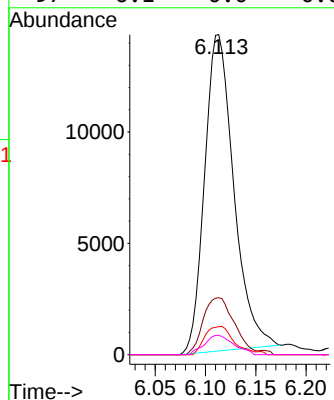
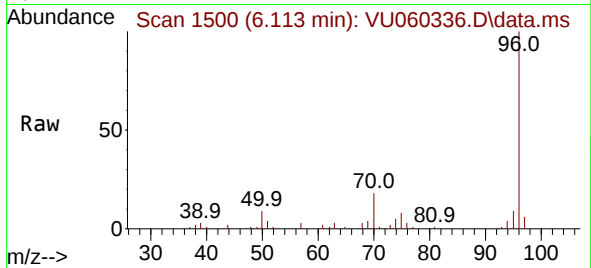




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.113 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

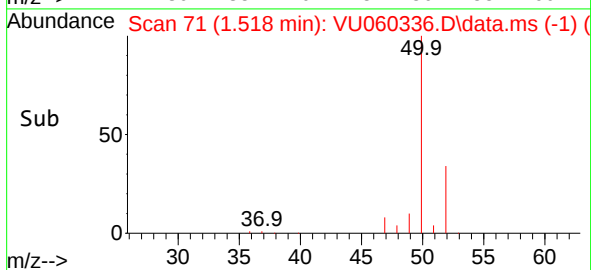
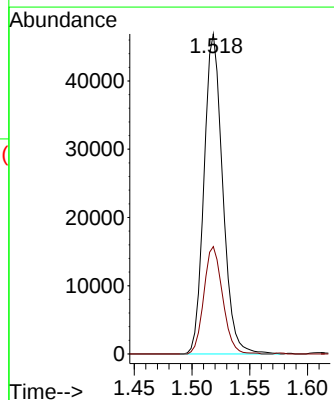
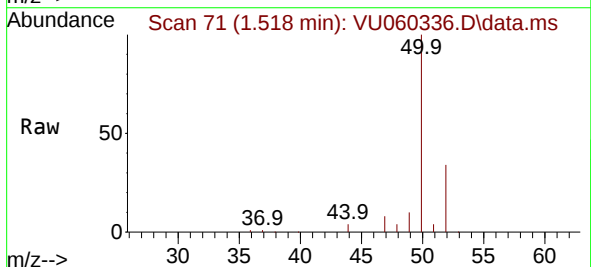
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

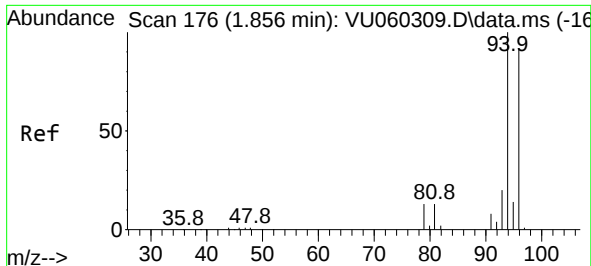
Tgt Ion: 96 Resp: 28707
Ion Ratio Lower Upper
96 100
70 17.9 17.2 25.8
95 9.0 7.9 11.9
97 6.1 0.0 0.0#



#3
Chloromethane
Concen: 4.184 ug/l
RT: 1.518 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 50 Resp: 52821
Ion Ratio Lower Upper
50 100
52 33.5 26.5 39.7

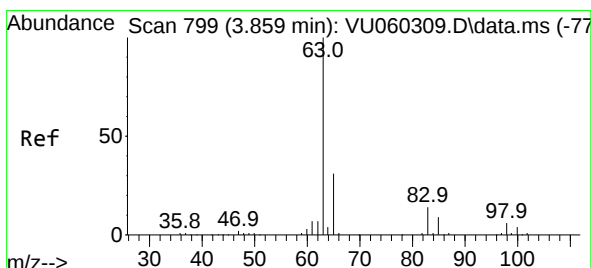
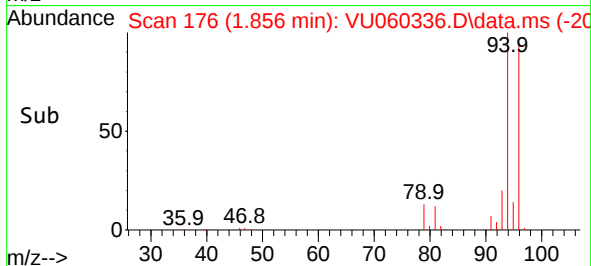
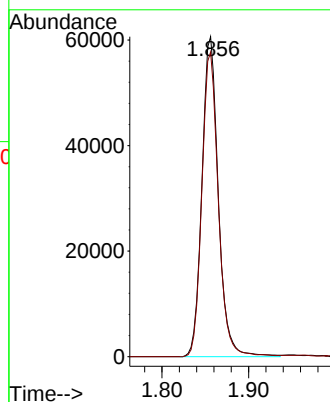
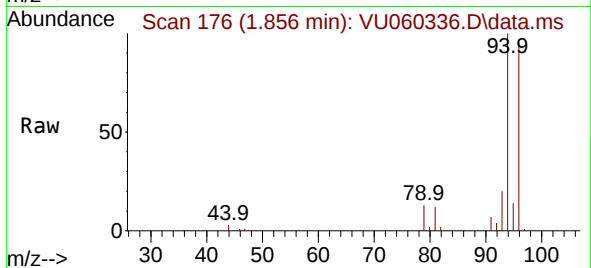




#5
Bromomethane
Concen: 10.267 ug/l
RT: 1.856 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

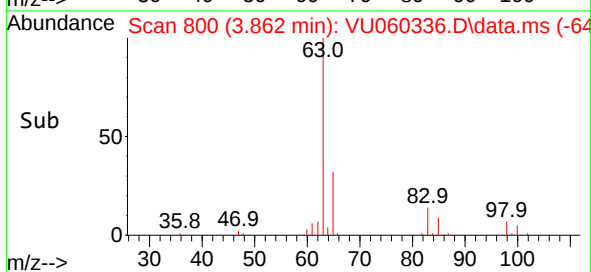
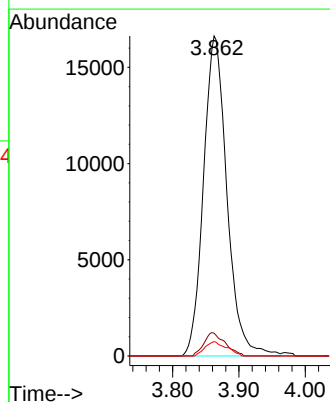
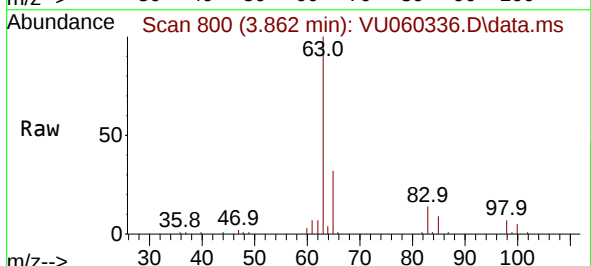
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

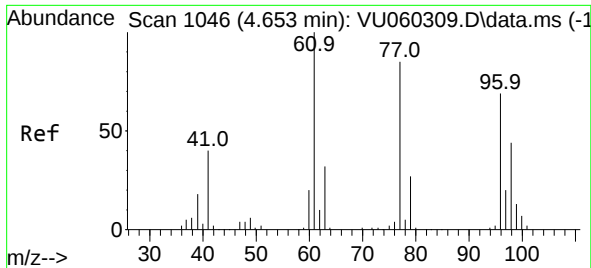
Tgt Ion: 94 Resp: 79616
Ion Ratio Lower Upper
94 100
96 95.2 73.8 110.8



#17
1,1-Dichloroethane
Concen: 2.311 ug/l
RT: 3.862 min Scan# 800
Delta R.T. 0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 63 Resp: 40857
Ion Ratio Lower Upper
63 100
98 7.1 3.1 9.4
100 4.5 2.0 5.8

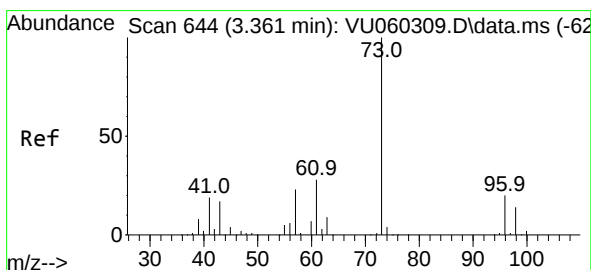
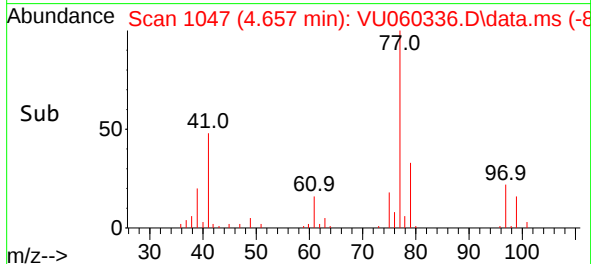
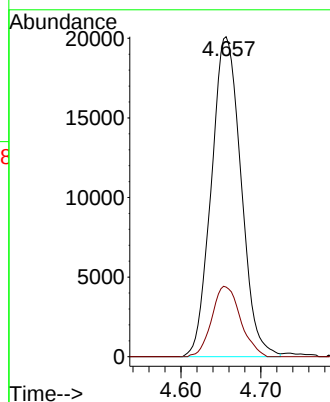
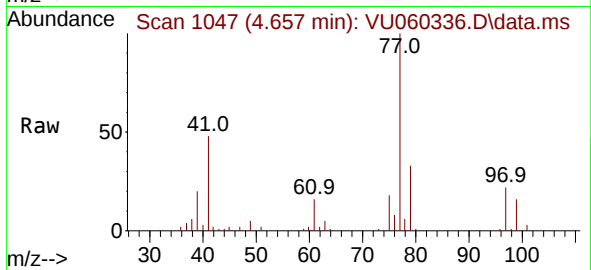




#21
2,2-Dichloropropane
Concen: 3.759 ug/l
RT: 4.657 min Scan# 1046
Delta R.T. 0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

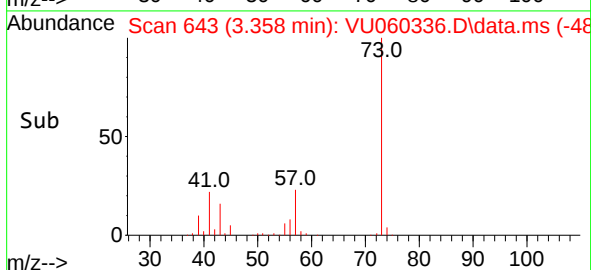
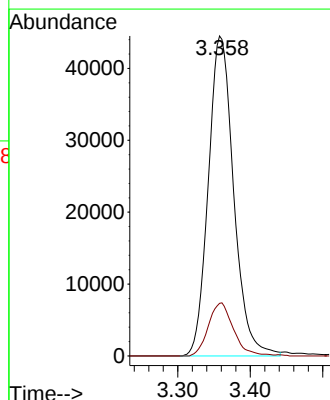
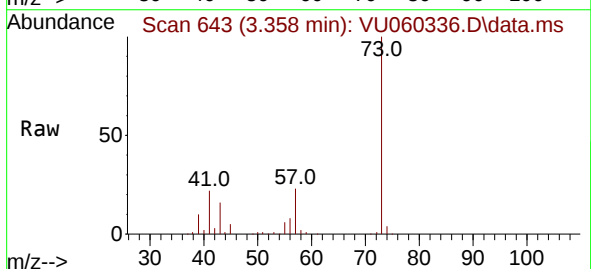
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

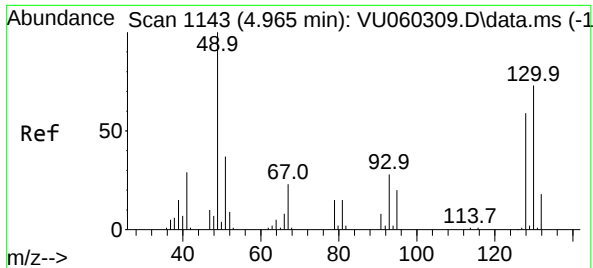
Tgt Ion: 77 Resp: 51759
Ion Ratio Lower Upper
77 100
97 21.3 18.6 27.8



#25
Methyl tert-Butyl Ether
Concen: 5.137 ug/l
RT: 3.358 min Scan# 643
Delta R.T. -0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 73 Resp: 108223
Ion Ratio Lower Upper
73 100
43 16.4 14.1 21.1





#26

Bromochloromethane

Concen: 3.046 ug/l

RT: 4.972 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

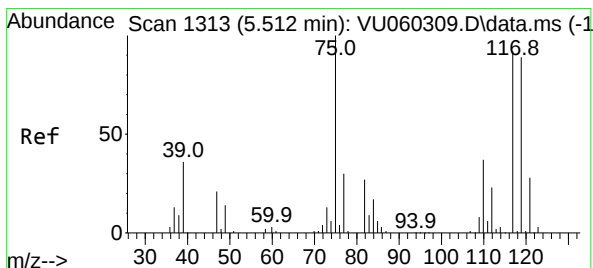
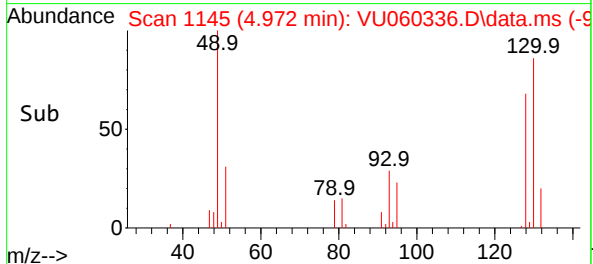
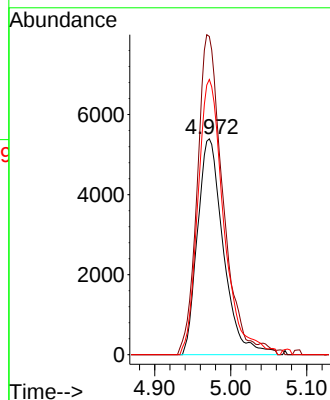
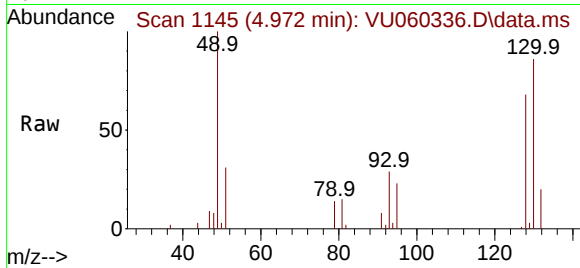
Tgt Ion:128 Resp: 12706

Ion Ratio Lower Upper

128 100

49 146.0 0.0 340.8

130 127.9 102.1 153.1



#29

1,1-Dichloropropene

Concen: 2.551 ug/l

RT: 5.521 min Scan# 1316

Delta R.T. 0.010 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

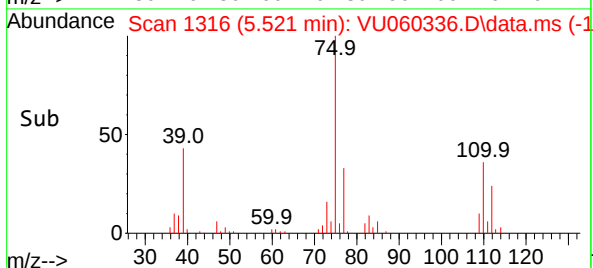
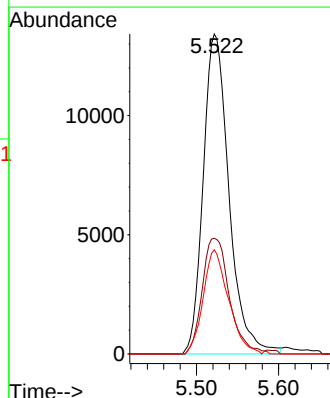
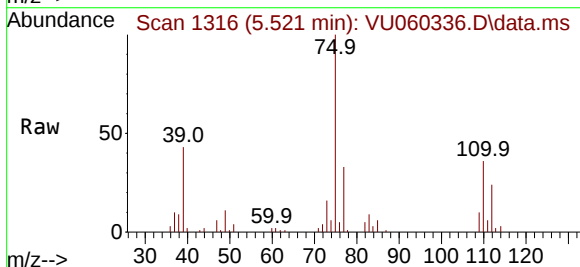
Tgt Ion: 75 Resp: 29371

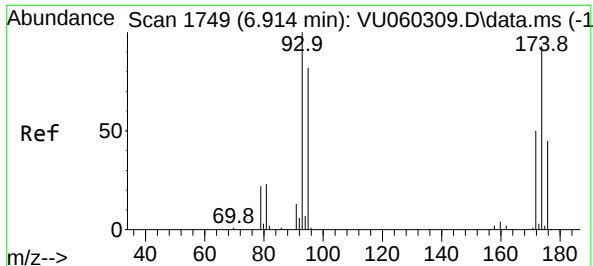
Ion Ratio Lower Upper

75 100

110 37.8 18.4 55.2

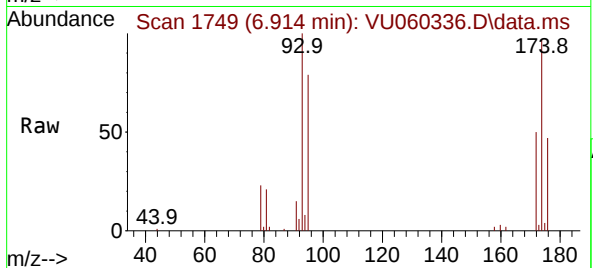
77 31.9 24.8 37.2



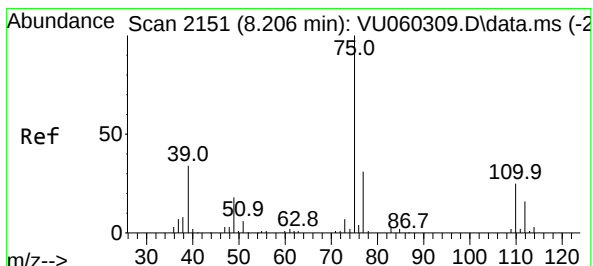
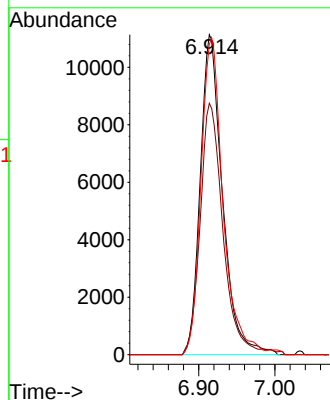
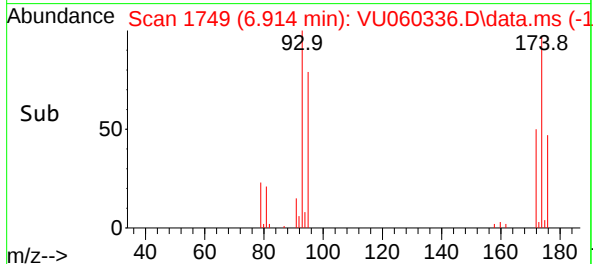


#43
Dibromomethane
Concen: 4.650 ug/l
RT: 6.914 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

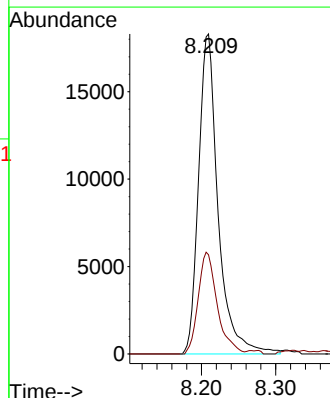
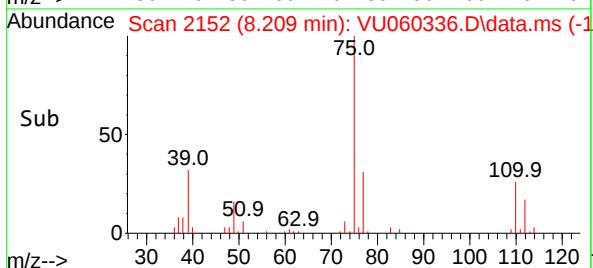
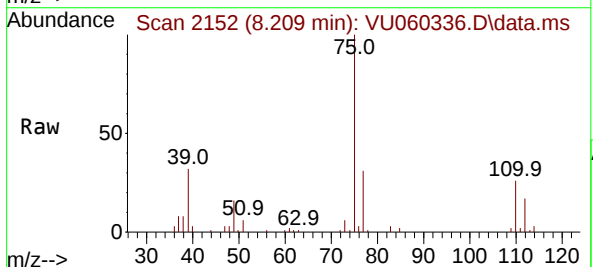


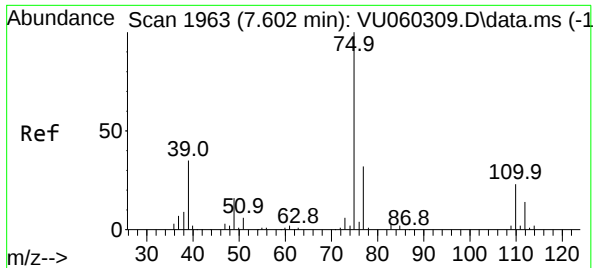
Tgt Ion: 93 Resp: 22578
Ion Ratio Lower Upper
93 100
95 79.8 66.4 99.6
174 98.1 75.2 112.8



#50
t-1,3-Dichloropropene
Concen: 3.478 ug/l
RT: 8.209 min Scan# 2152
Delta R.T. 0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 33475
Ion Ratio Lower Upper
75 100
77 31.0 24.6 37.0

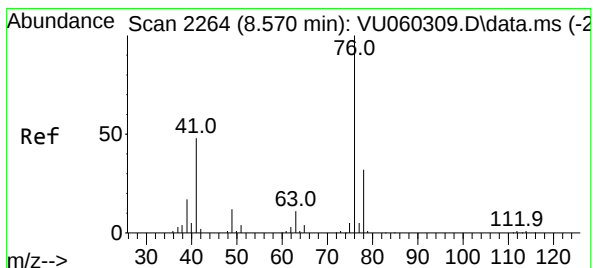
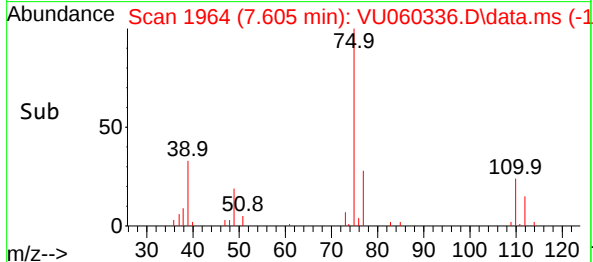
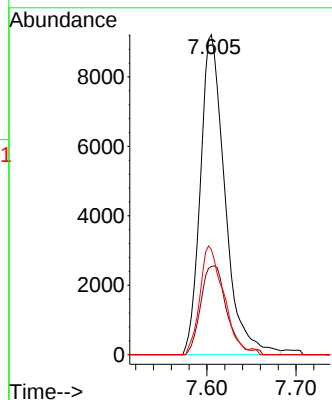
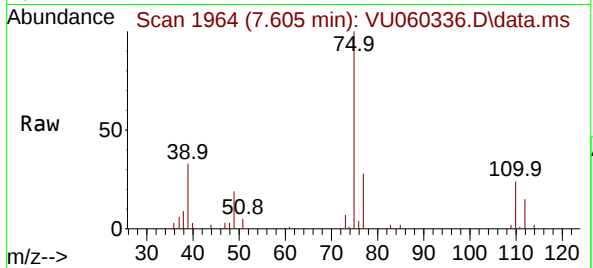




#51
 cis-1,3-Dichloropropene
 Concen: 1.525 ug/l
 RT: 7.605 min Scan# 1963
 Delta R.T. 0.003 min
 Lab File: VU060336.D
 Acq: 07 Aug 2024 14:49

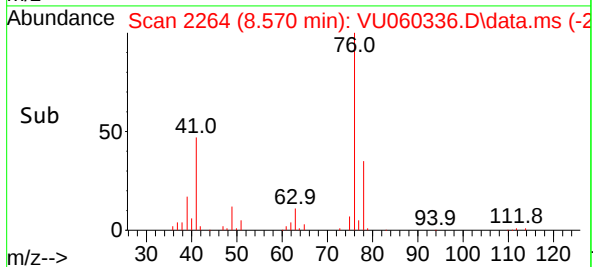
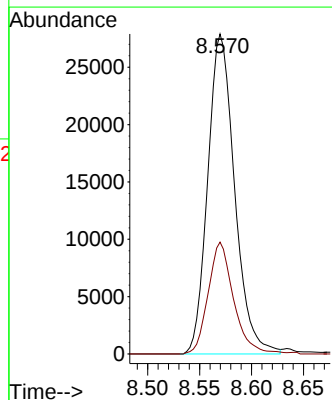
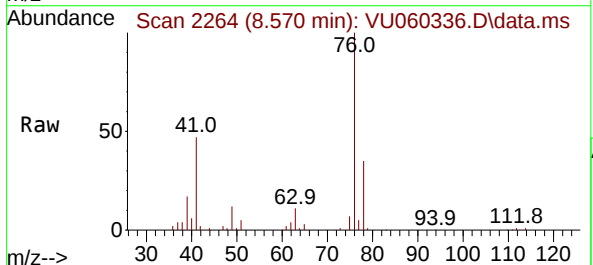
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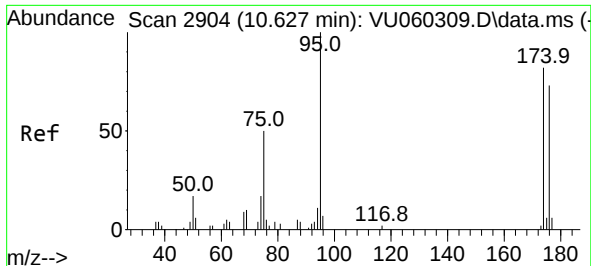
Tgt Ion:	75	Resp:	17655
Ion	Ratio	Lower	Upper
75	100		
77	27.5	25.4	38.0
39	32.8	28.0	42.0



#53
 1,3-Dichloropropane
 Concen: 4.408 ug/l
 RT: 8.570 min Scan# 2264
 Delta R.T. 0.000 min
 Lab File: VU060336.D
 Acq: 07 Aug 2024 14:49

Tgt Ion:	76	Resp:	50129
Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.2	39.2





#57

4-Bromofluorobenzene

Concen: 1.041 ug/l

RT: 10.631 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

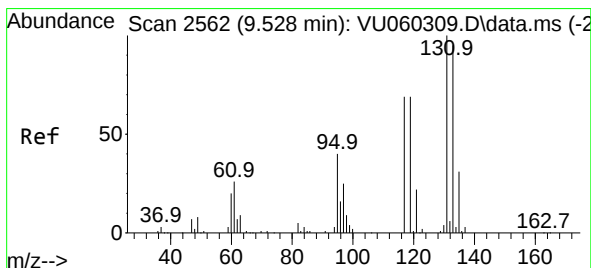
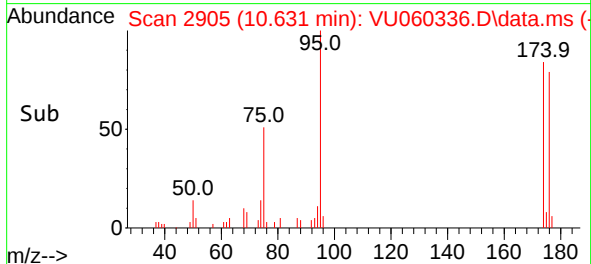
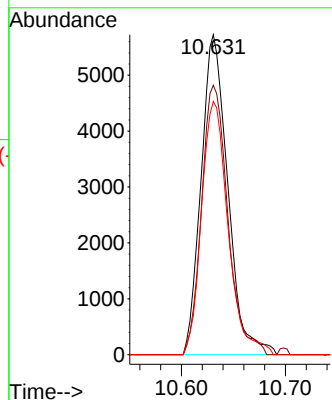
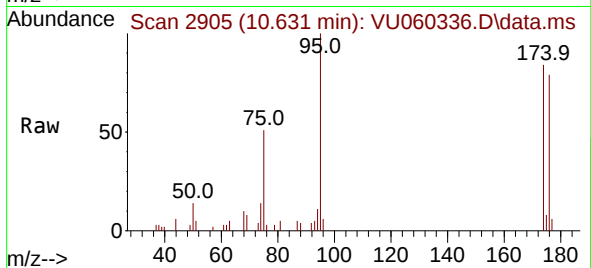
Tgt Ion: 95 Resp: 10184

Ion Ratio Lower Upper

95 100

174 82.9 65.6 98.4

176 79.0 60.4 90.6



#60

1,1,1,2-Tetrachloroethane

Concen: 4.747 ug/l

RT: 9.528 min Scan# 2562

Delta R.T. 0.000 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

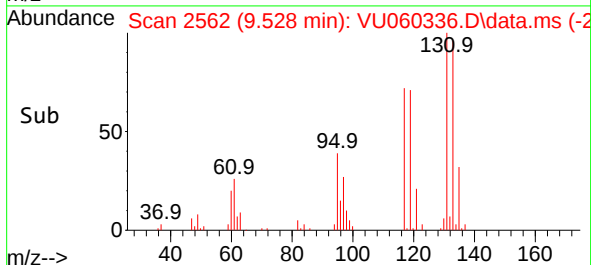
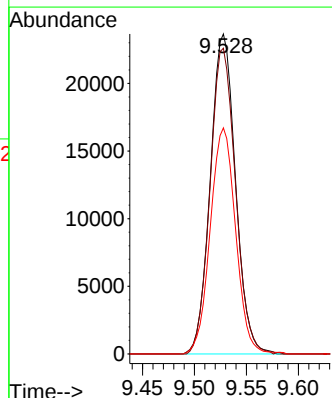
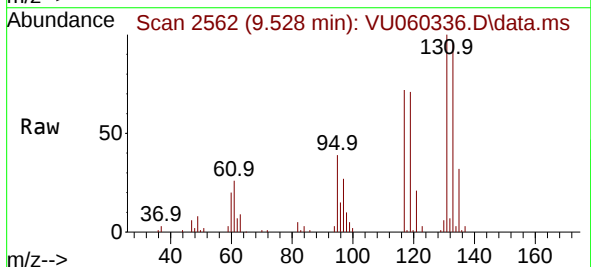
Tgt Ion: 131 Resp: 39836

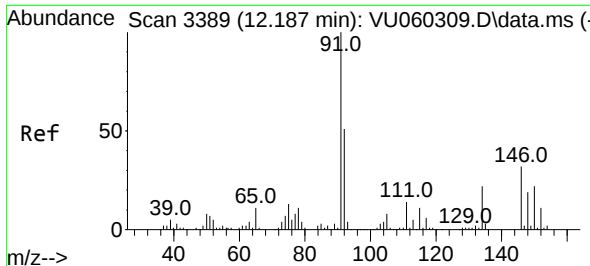
Ion Ratio Lower Upper

131 100

133 96.4 77.2 115.8

119 71.3 55.4 83.2

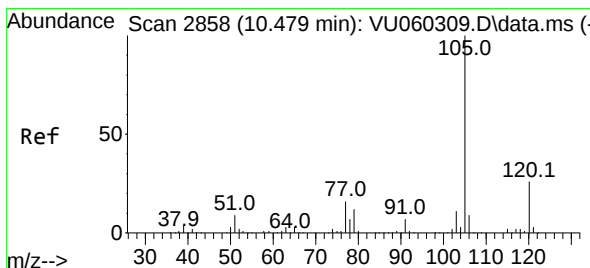
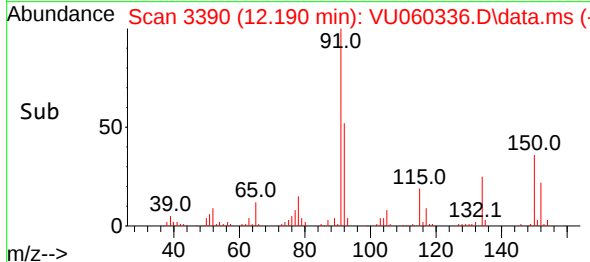
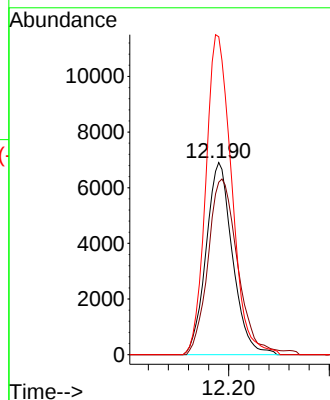
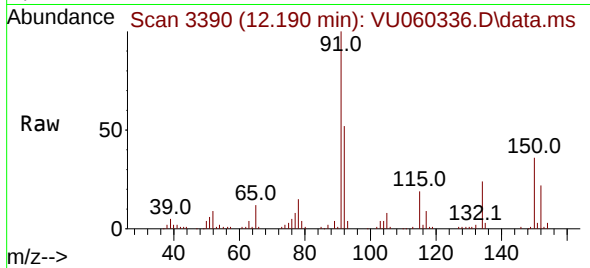




#68
 1,2-Dichlorobenzene-d4
 Concen: 1.187 ug/l
 RT: 12.190 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU060336.D
 Acq: 07 Aug 2024 14:49

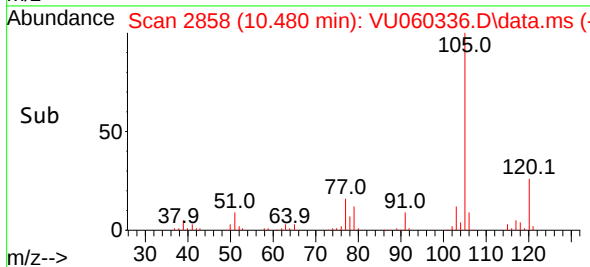
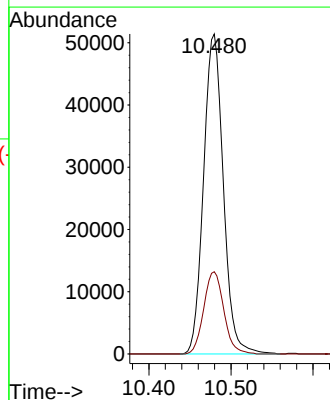
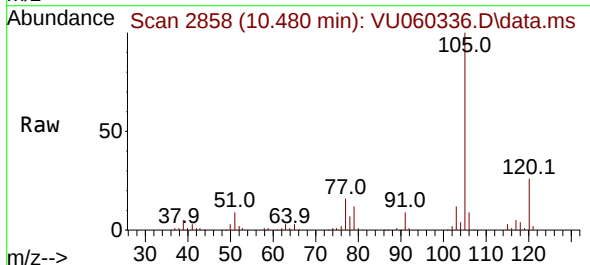
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

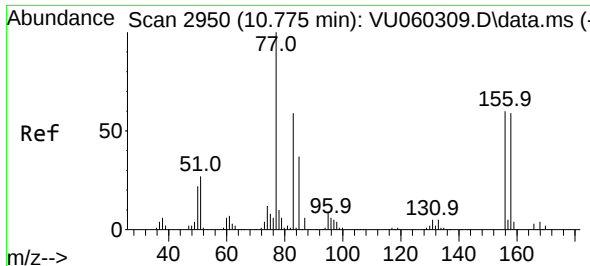
Tgt Ion:152 Resp: 12616
 Ion Ratio Lower Upper
 152 100
 115 102.3 0.0 325.2
 150 162.6 0.0 684.2



#69
 Isopropylbenzene
 Concen: 2.522 ug/l
 RT: 10.480 min Scan# 2858
 Delta R.T. 0.001 min
 Lab File: VU060336.D
 Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 86318
 Ion Ratio Lower Upper
 105 100
 120 26.1 13.0 39.0

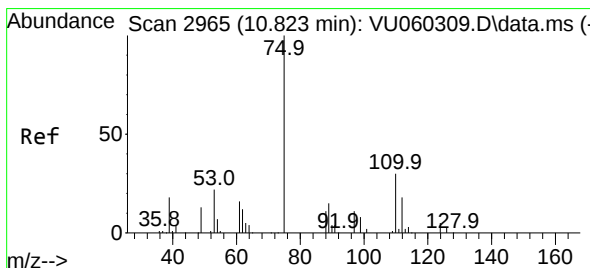
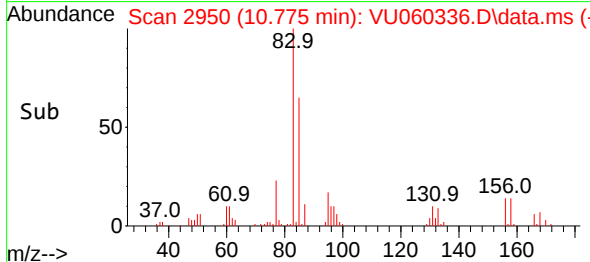
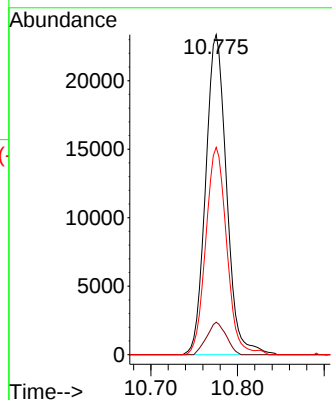
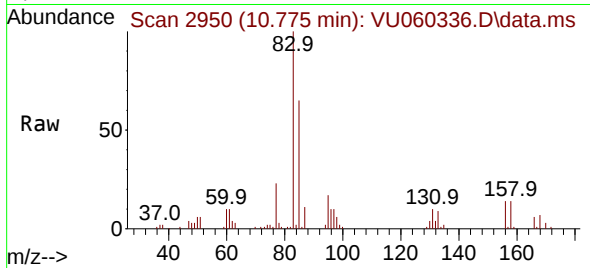




#70
1,1,2,2-Tetrachloroethane
Concen: 4.126 ug/l
RT: 10.775 min Scan# 2950
Delta R.T. 0.000 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

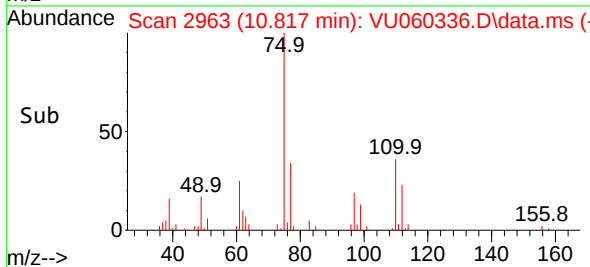
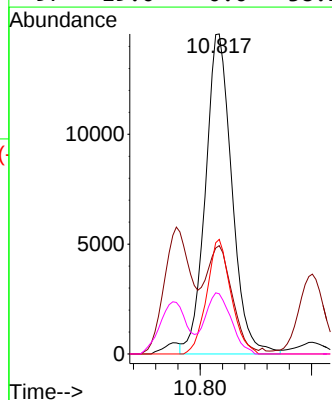
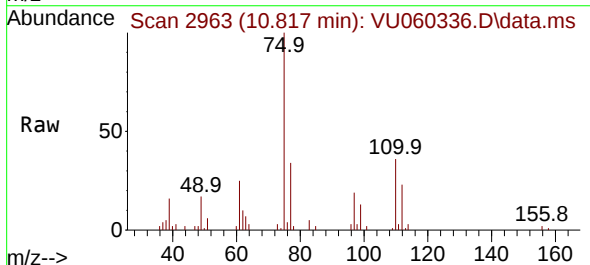
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

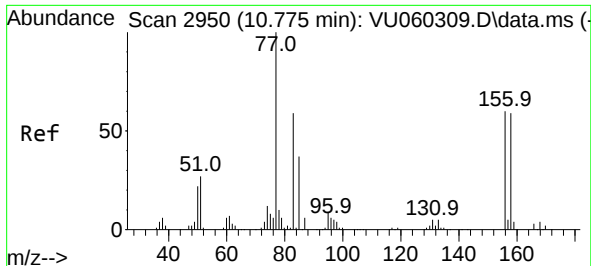
Tgt Ion: 83 Resp: 39131
Ion Ratio Lower Upper
83 100
131 9.4 7.1 10.7
85 64.8 50.9 76.3



#71
1,2,3-Trichloropropane
Concen: 3.416 ug/l
RT: 10.817 min Scan# 2963
Delta R.T. -0.006 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 23998
Ion Ratio Lower Upper
75 100
77 32.7 0.0 102.2
110 32.8 0.0 67.4
97 19.0 0.0 38.2

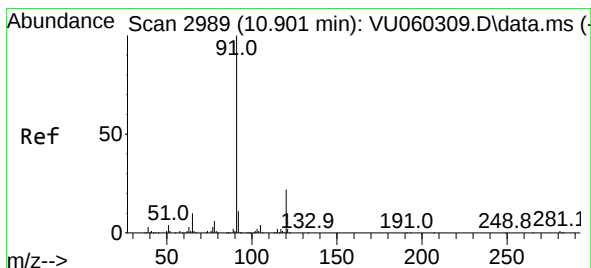
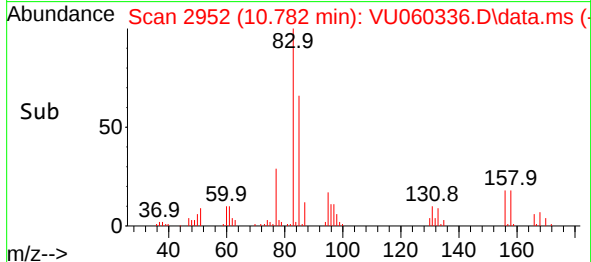
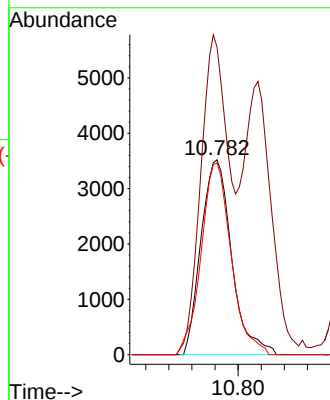
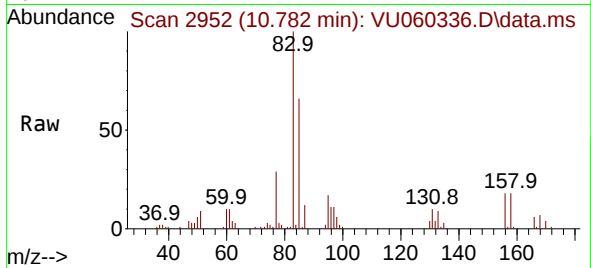




#72
Bromobenzene
Concen: 0.741 ug/l
RT: 10.782 min Scan# 2952
Delta R.T. 0.006 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

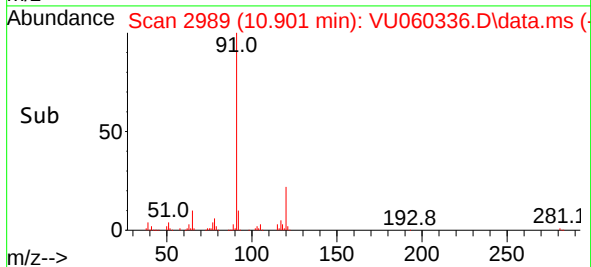
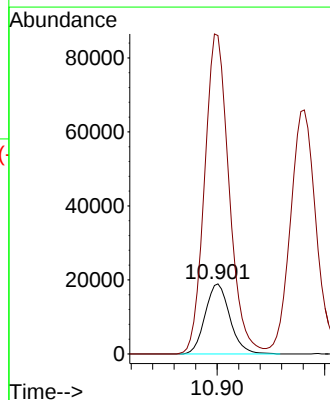
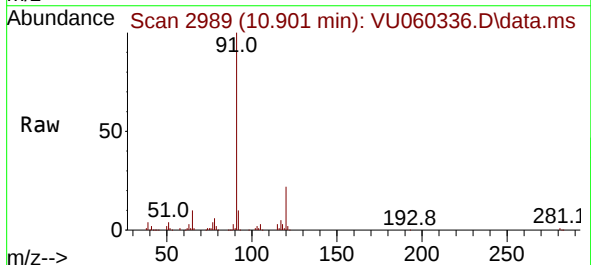
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

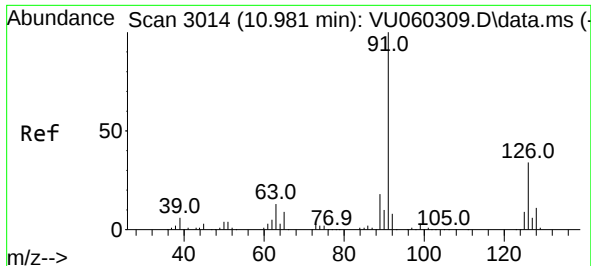
Tgt Ion:156 Resp: 6484
Ion Ratio Lower Upper
156 100
77 148.7 0.0 327.2
158 96.2 0.0 193.8



#73
n-propylbenzene
Concen: 2.972 ug/l
RT: 10.901 min Scan# 2989
Delta R.T. -0.000 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion:120 Resp: 30112
Ion Ratio Lower Upper
120 100
91 456.0 362.2 543.2

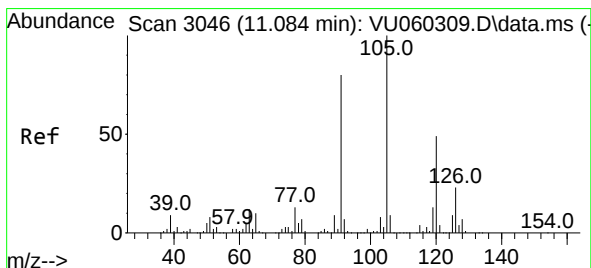
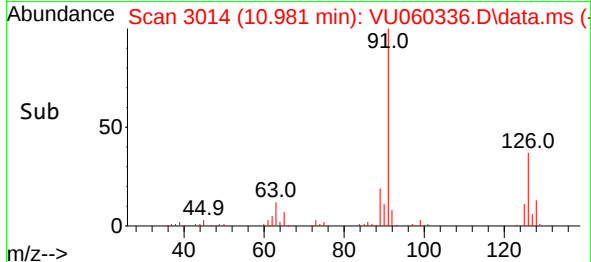
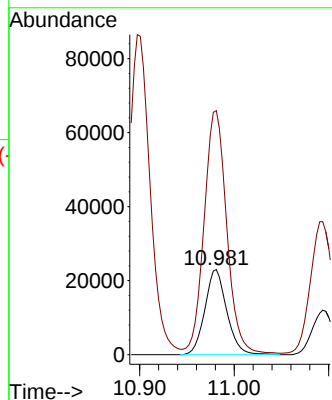
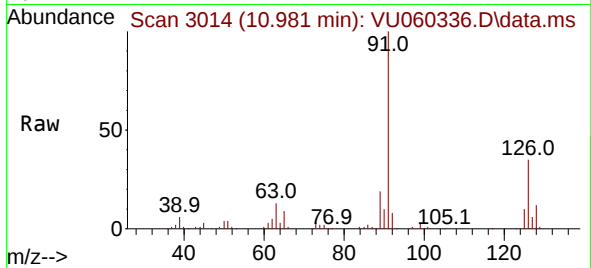




#74
2-Chlorotoluene
Concen: 3.828 ug/l
RT: 10.981 min Scan# 3014
Delta R.T. 0.000 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

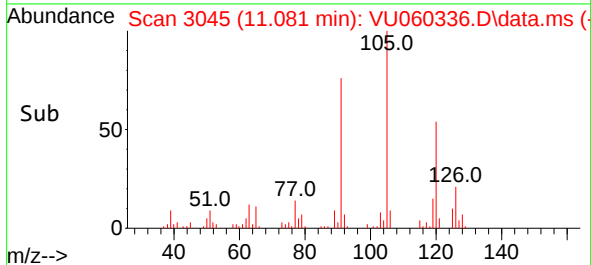
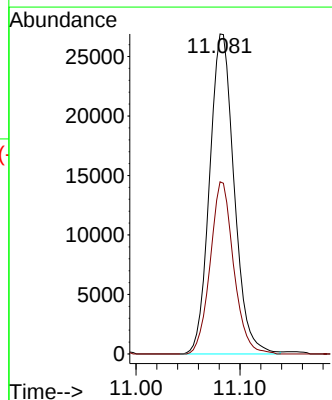
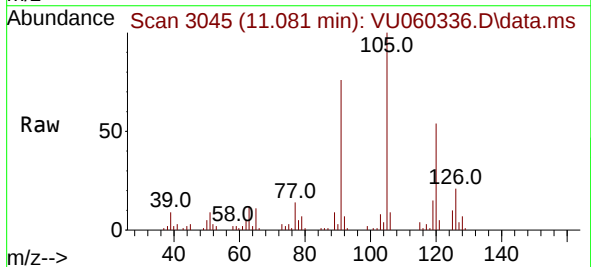
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

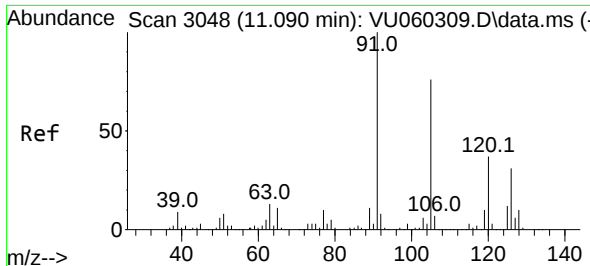
Tgt Ion:126 Resp: 36927
Ion Ratio Lower Upper
126 100
91 297.4 0.0 585.6



#75
1,3,5-Trimethylbenzene
Concen: 1.633 ug/l
RT: 11.081 min Scan# 3045
Delta R.T. -0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 44152
Ion Ratio Lower Upper
105 100
120 51.3 38.6 57.8

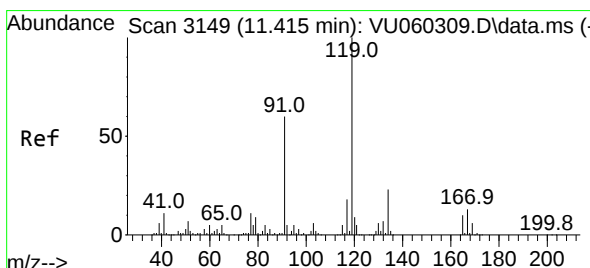
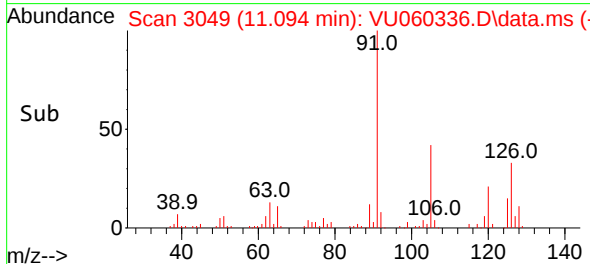
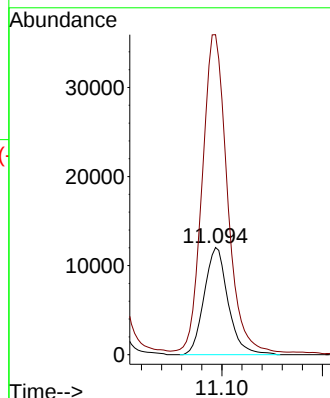
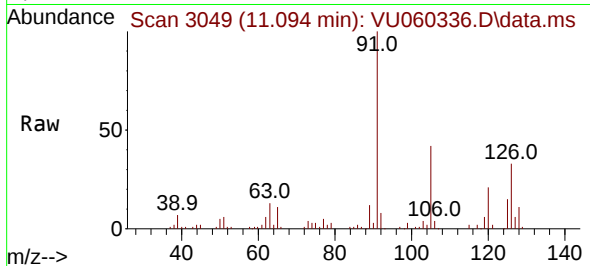




#76
4-Chlorotoluene
Concen: 2.130 ug/l
RT: 11.094 min Scan# 3048
Delta R.T. 0.004 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

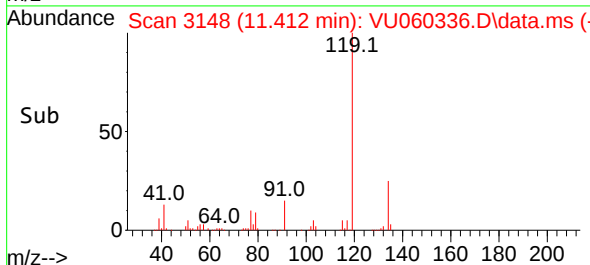
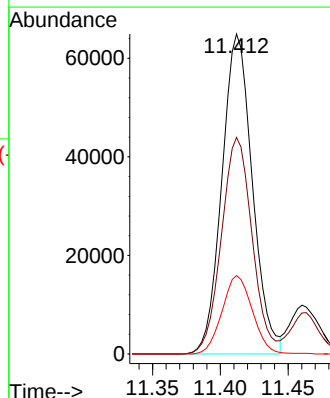
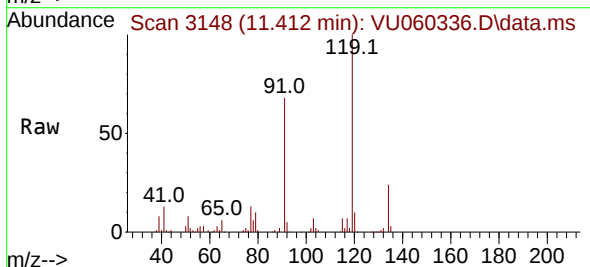
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

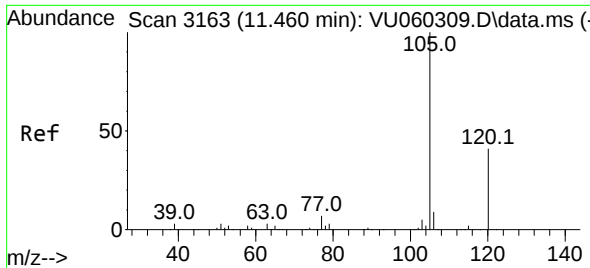
Tgt Ion:126 Resp: 19837
Ion Ratio Lower Upper
126 100
91 310.8 0.0 669.4



#77
tert-Butylbenzene
Concen: 3.312 ug/l
RT: 11.412 min Scan# 3148
Delta R.T. -0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion:119 Resp: 101562
Ion Ratio Lower Upper
119 100
91 67.9 29.0 87.1
134 24.4 17.8 26.8

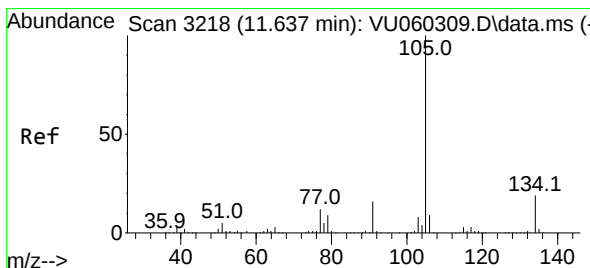
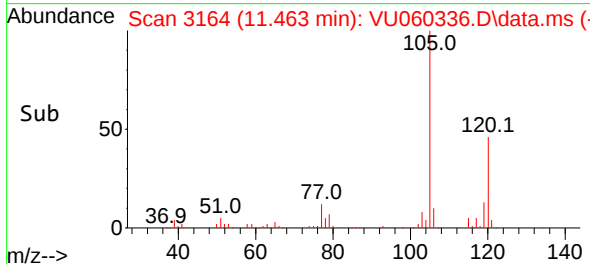
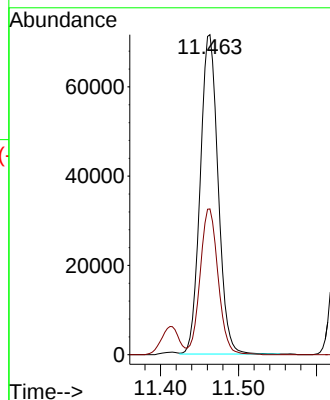
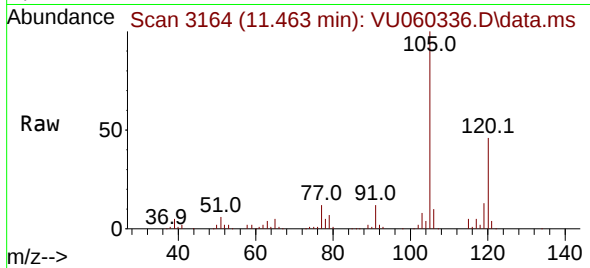




#78
1,2,4-Trimethylbenzene
Concen: 3.395 ug/l
RT: 11.463 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

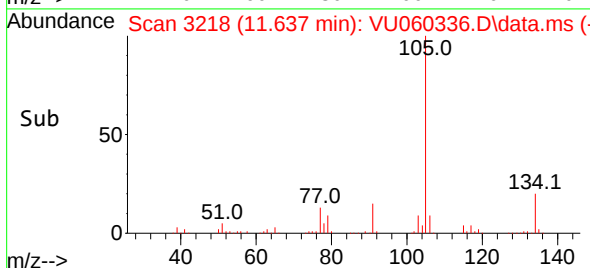
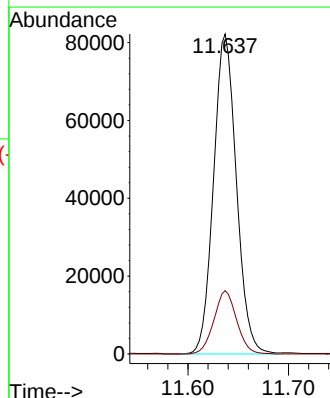
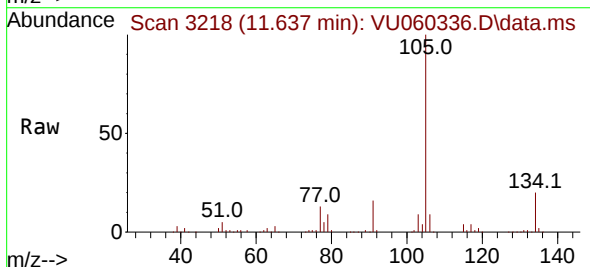
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

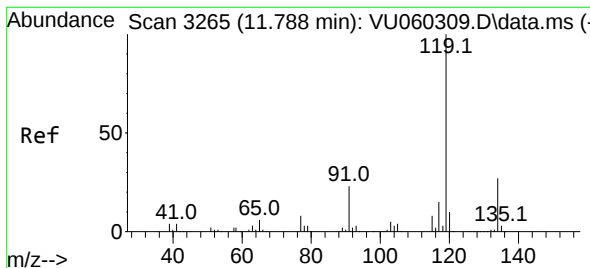
Tgt Ion:105 Resp: 113919
Ion Ratio Lower Upper
105 100
120 46.2 22.6 67.7



#79
sec-Butylbenzene
Concen: 3.123 ug/l
RT: 11.637 min Scan# 3218
Delta R.T. 0.000 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 129793
Ion Ratio Lower Upper
105 100
134 19.6 15.5 23.3





#81

p-Isopropyltoluene

Concen: 2.740 ug/l

RT: 11.788 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

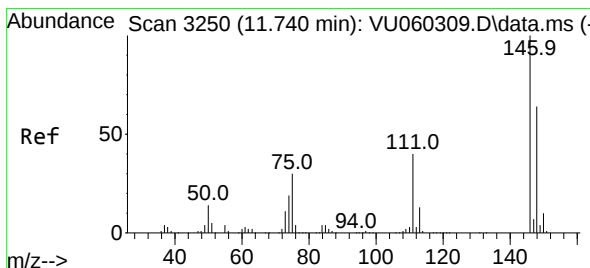
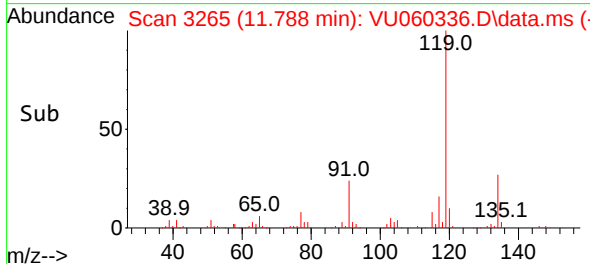
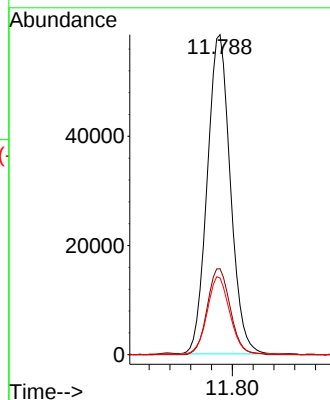
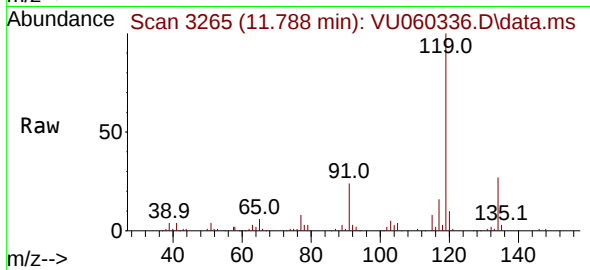
Tgt Ion:119 Resp: 90367

Ion Ratio Lower Upper

119 100

134 26.8 21.2 31.8

91 24.5 18.9 28.3



#82

1,3-Dichlorobenzene

Concen: 4.436 ug/l

RT: 11.740 min Scan# 3250

Delta R.T. 0.000 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

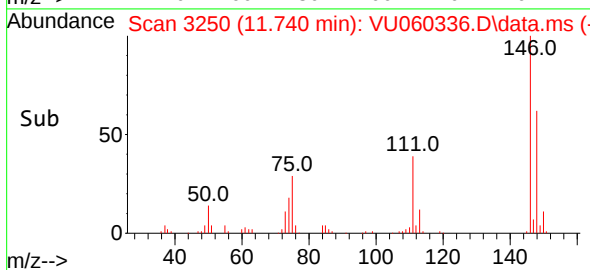
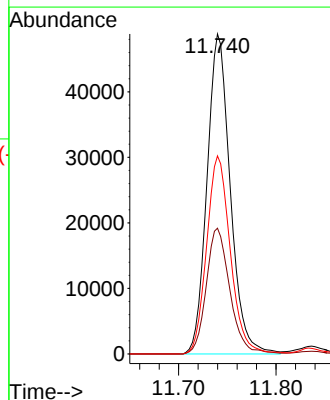
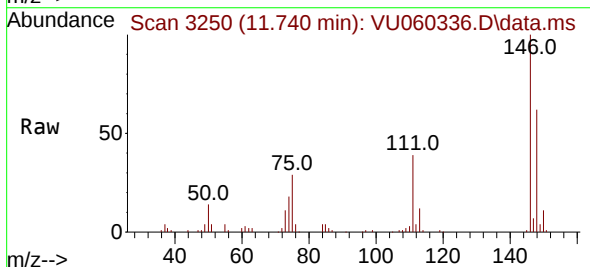
Tgt Ion:146 Resp: 80959

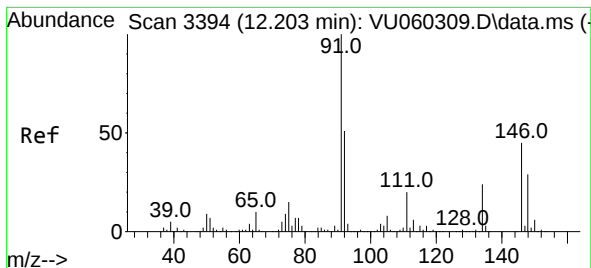
Ion Ratio Lower Upper

146 100

111 39.9 32.0 48.0

148 63.3 51.4 77.0





#84

n-Butylbenzene

Concen: 3.405 ug/l

RT: 12.203 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_U

ClientSampleId :

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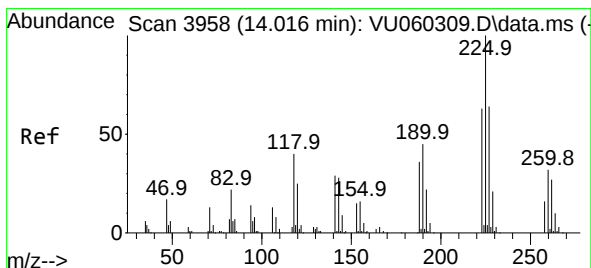
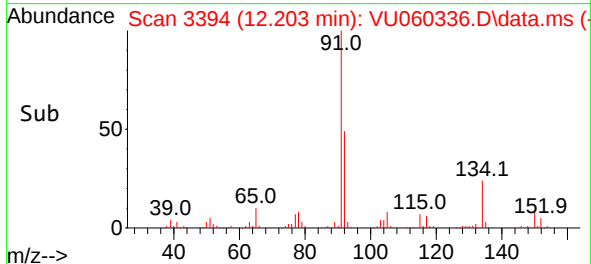
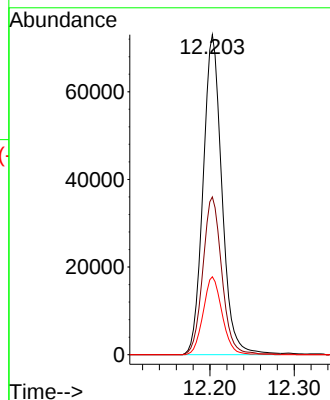
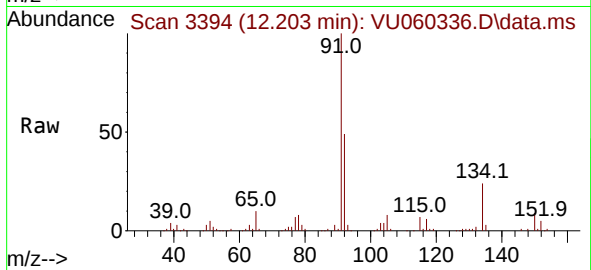
Tgt Ion: 91 Resp: 113618

Ion Ratio Lower Upper

91 100

92 49.8 41.0 61.6

134 24.5 19.4 29.2



#88

Hexachlorobutadiene

Concen: 1.965 ug/l

RT: 14.016 min Scan# 3958

Delta R.T. 0.000 min

Lab File: VU060336.D

Acq: 07 Aug 2024 14:49

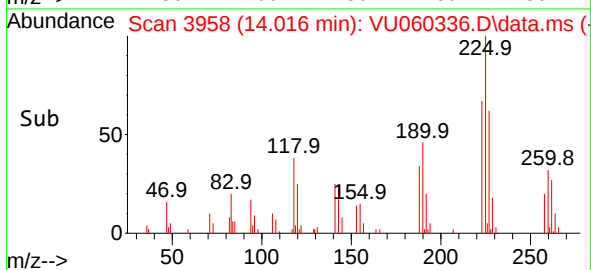
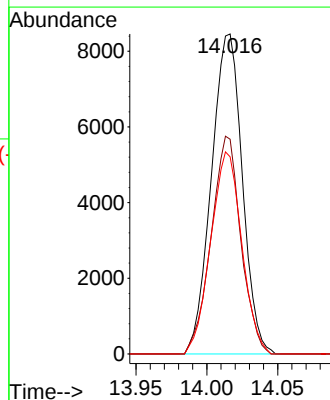
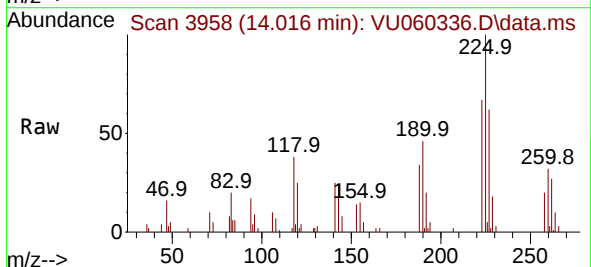
Tgt Ion: 225 Resp: 12828

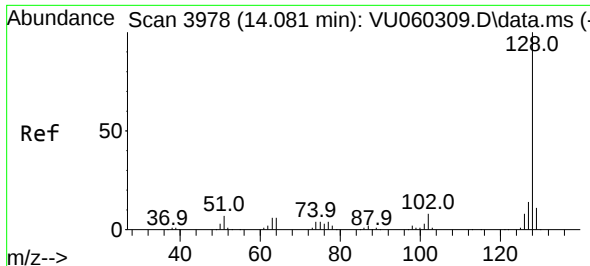
Ion Ratio Lower Upper

225 100

223 65.5 50.8 76.2

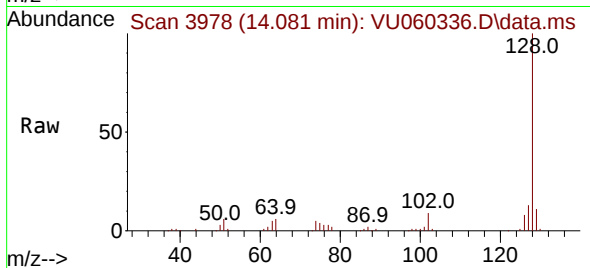
227 63.4 50.8 76.2



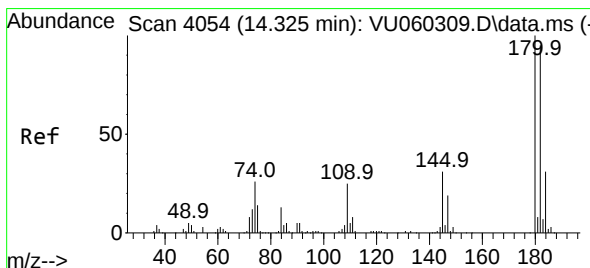
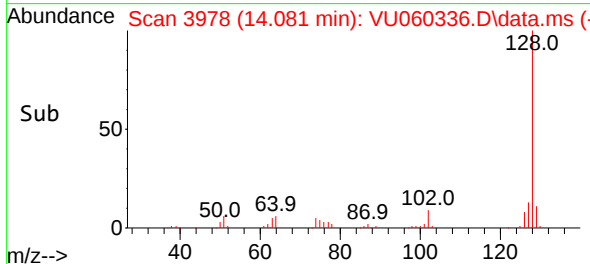
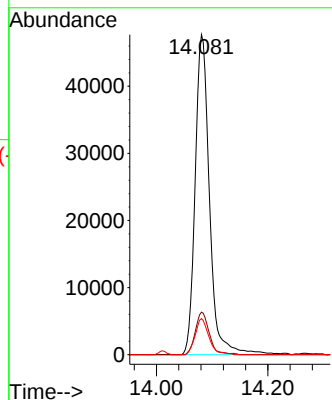


#89
Naphthalene
Concen: 4.766 ug/l
RT: 14.081 min Scan# 3978
Delta R.T. -0.000 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion:	128	Resp:	85134
Ion	Ratio	Lower	Upper
128	100		
127	12.8	11.0	16.4
129	10.7	8.6	12.8



#90
1,2,3-Trichlorobenzene
Concen: 10.051 ug/l
RT: 14.322 min Scan# 4053
Delta R.T. -0.003 min
Lab File: VU060336.D
Acq: 07 Aug 2024 14:49

Tgt Ion:	180	Resp:	99062
Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.1	114.1
145	31.3	25.0	37.6

