

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020224\
 Data File : VU057795.D
 Acq On : 02 Feb 2024 15:13
 Operator : MD/SY
 Sample : P1174-08DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Feb 03 05:55:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U013124DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 02 00:27:55 2024
 Response via : Initial Calibration

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

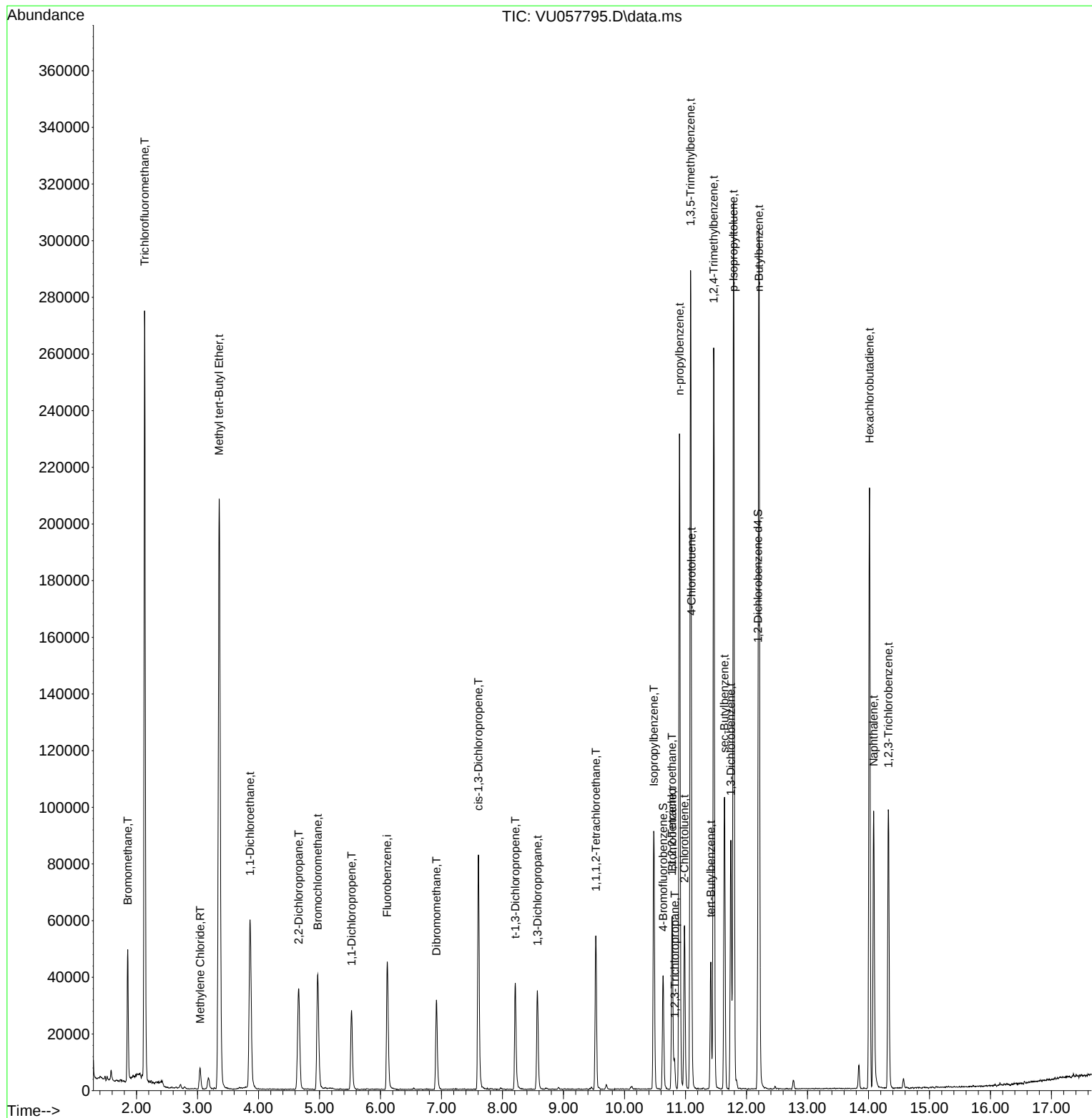
Internal Standards						
1) Fluorobenzene	6.110	96	42616	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	14560	0.902	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13598	0.936	ug/l	0.00
Spiked Amount 1.000			Recovery	=	94.000%	
Target Compounds						
						Qvalue
5) Bromomethane	1.856	94	20183	2.450	ug/l	94
7) Trichlorofluoromethane	2.132	101	171391	8.061	ug/l	99
15) Methylene Chloride	3.042	84	3545	0.280	ug/l	97
17) 1,1-Dichloroethane	3.862	63	69092	3.165	ug/l	99
21) 2,2-Dichloropropane	4.660	77	27136	1.400	ug/l	# 75
25) Methyl tert-Butyl Ether	3.354	73	239499	9.637	ug/l	96
26) Bromochloromethane	4.972	128	13383	2.630	ug/l	96
29) 1,1-Dichloropropene	5.525	75	16033	0.967	ug/l	97
43) Dibromomethane	6.917	93	13619	2.393	ug/l	95
50) t-1,3-Dichloropropene	8.209	75	21940	1.595	ug/l	98
51) cis-1,3-Dichloropropene	7.605	75	47912	2.749	ug/l	# 91
53) 1,3-Dichloropropane	8.573	76	21507	1.526	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.531	131	14355	1.312	ug/l	95
69) Isopropylbenzene	10.479	105	59285	1.097	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.778	83	5472	0.557	ug/l	92
71) 1,2,3-Trichloropropane	10.823	75	4089	0.504	ug/l	# 56
72) Bromobenzene	10.782	156	13813	1.162	ug/l	90
73) n-propylbenzene	10.904	120	39196	2.886	ug/l	99
74) 2-Chlorotoluene	10.981	126	10393	0.825	ug/l	89
75) 1,3,5-Trimethylbenzene	11.084	105	149875	3.229	ug/l	97
76) 4-Chlorotoluene	11.097	126	5469	0.432	ug/l	1
77) tert-Butylbenzene	11.415	119	20897	0.480	ug/l	90
78) 1,2,4-Trimethylbenzene	11.463	105	142785	3.033	ug/l	99
79) sec-Butylbenzene	11.640	105	71567	1.285	ug/l	100
81) p-Isopropyltoluene	11.788	119	168737	3.595	ug/l	98
82) 1,3-Dichlorobenzene	11.743	146	34872	1.450	ug/l	96
84) n-Butylbenzene	12.206	91	155218	3.458	ug/l	97
88) Hexachlorobutadiene	14.016	225	35381	4.231	ug/l	99
89) Naphthalene	14.084	128	83364	4.143	ug/l	98
90) 1,2,3-Trichlorobenzene	14.328	180	29349	2.707	ug/l	99

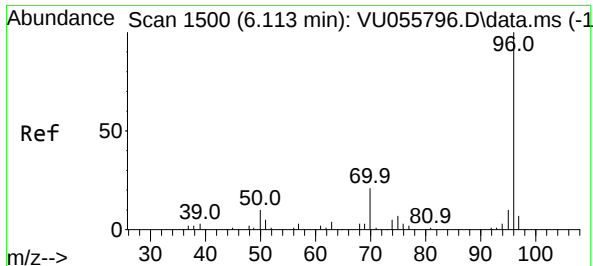
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 03 05:55:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U013124DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Feb 02 00:27:55 2024
Response via : Initial Calibration

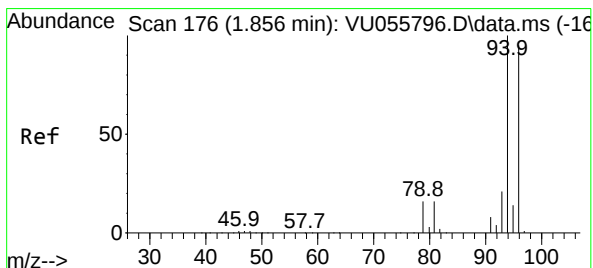
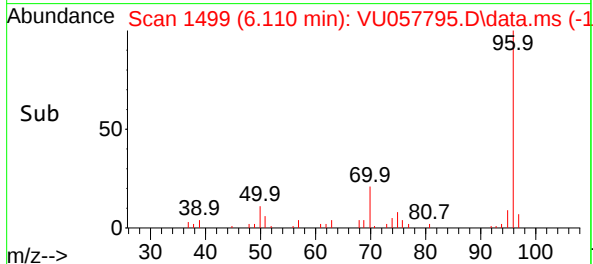
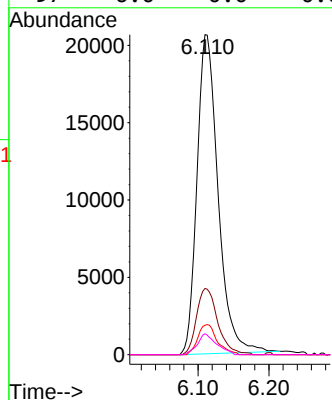
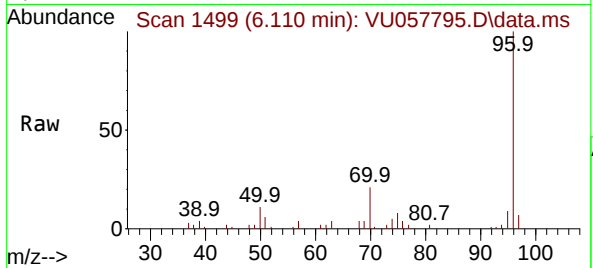




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

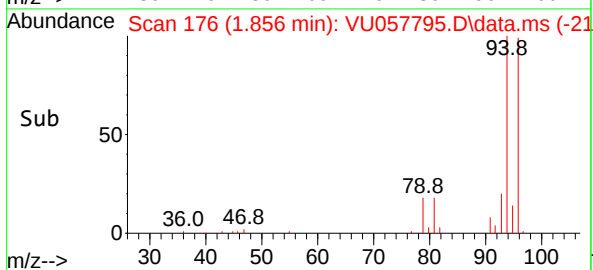
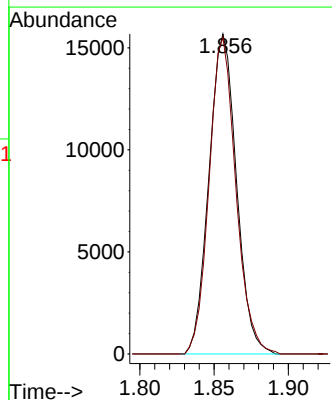
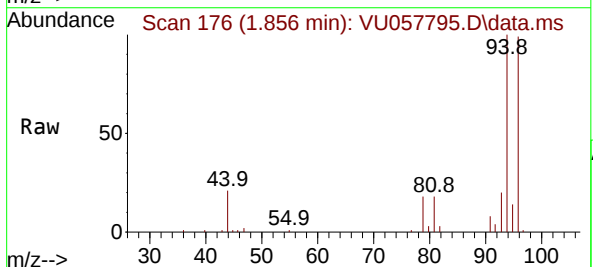
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

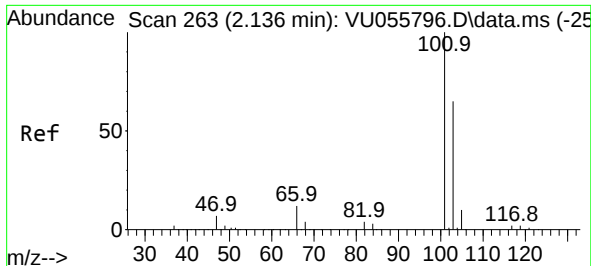
Tgt Ion: 96 Resp: 42616
Ion Ratio Lower Upper
96 100
70 20.9 16.5 24.7
95 8.6 7.4 11.0
97 6.0 0.0 0.0#



#5
Bromomethane
Concen: 2.450 ug/l
RT: 1.856 min Scan# 176
Delta R.T. -0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion: 94 Resp: 20183
Ion Ratio Lower Upper
94 100
96 100.1 75.4 113.2

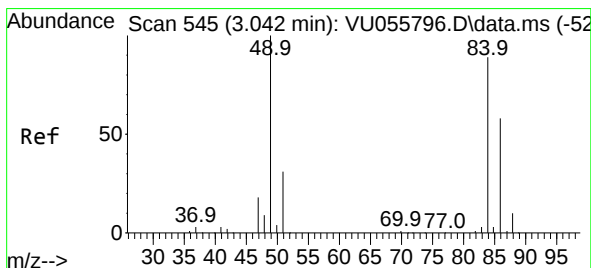
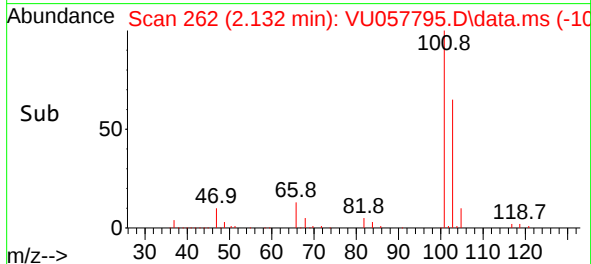
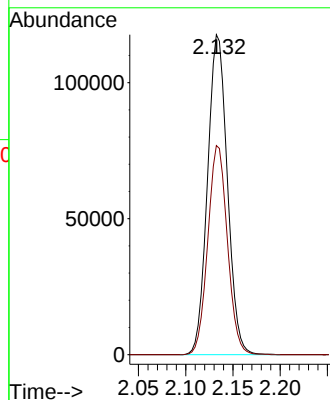
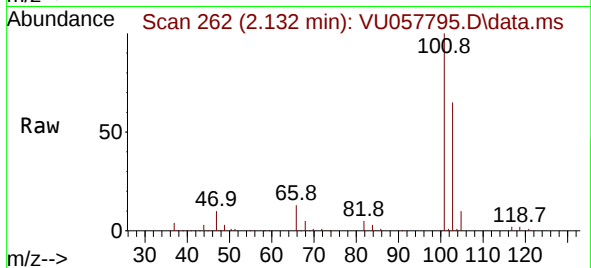




#7
 Trichlorofluoromethane
 Concen: 8.061 ug/l
 RT: 2.132 min Scan# 20
 Delta R.T. -0.004 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

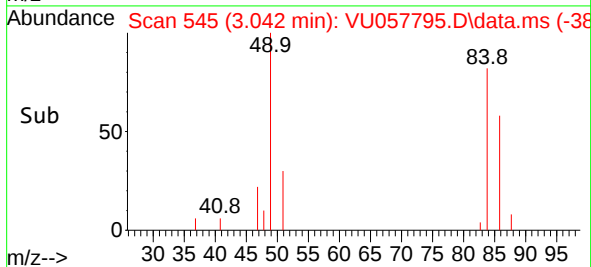
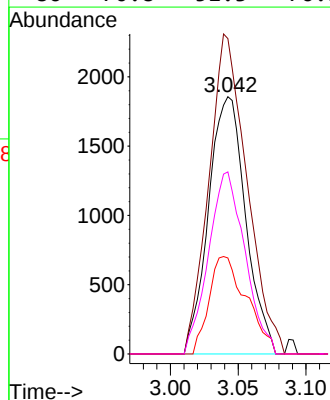
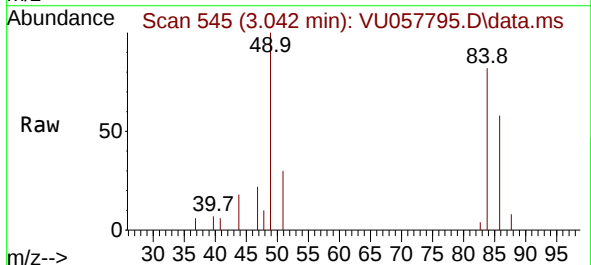
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

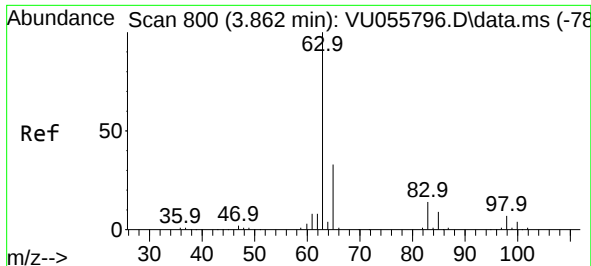
Tgt Ion:101 Resp: 171391
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.4 77.0



#15
 Methylene Chloride
 Concen: 0.280 ug/l
 RT: 3.042 min Scan# 545
 Delta R.T. 0.000 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

Tgt Ion: 84 Resp: 3545
 Ion Ratio Lower Upper
 84 100
 49 122.6 98.9 148.3
 51 37.3 0.0 75.4
 86 70.8 51.3 76.9

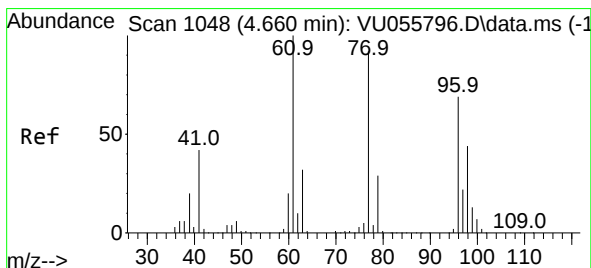
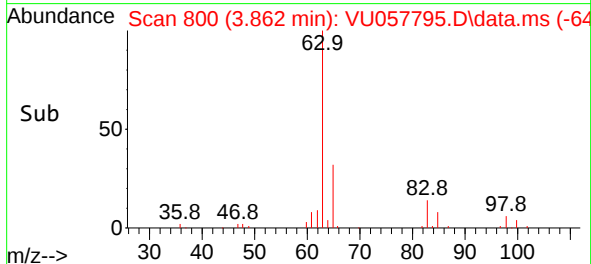
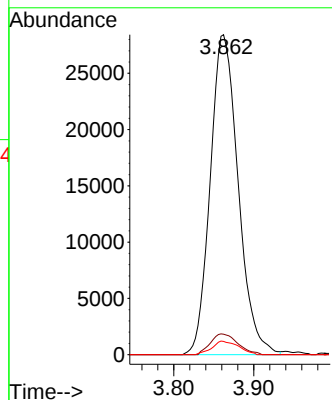
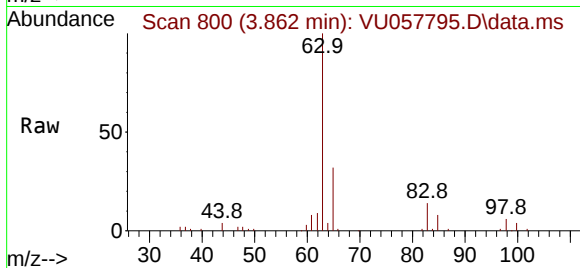




#17
 1,1-Dichloroethane
 Concen: 3.165 ug/l
 RT: 3.862 min Scan# 800
 Delta R.T. 0.000 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

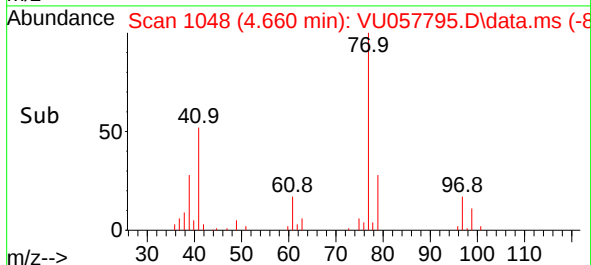
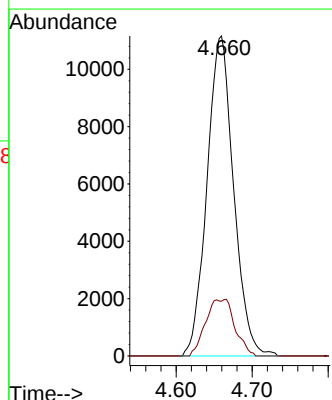
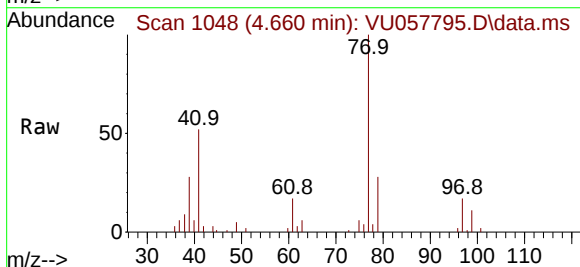
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

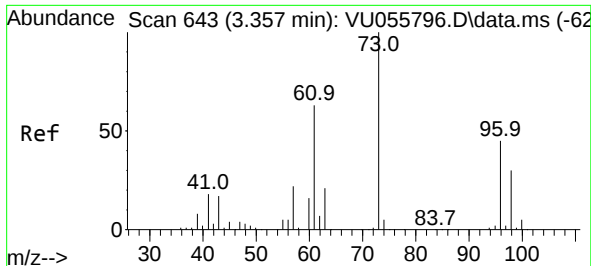
Tgt Ion: 63 Resp: 69092
 Ion Ratio Lower Upper
 63 100
 98 6.4 3.4 10.1
 100 4.2 2.2 6.6



#21
 2,2-Dichloropropane
 Concen: 1.400 ug/l
 RT: 4.660 min Scan# 1048
 Delta R.T. -0.000 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

Tgt Ion: 77 Resp: 27136
 Ion Ratio Lower Upper
 77 100
 97 11.0 18.4 27.6#

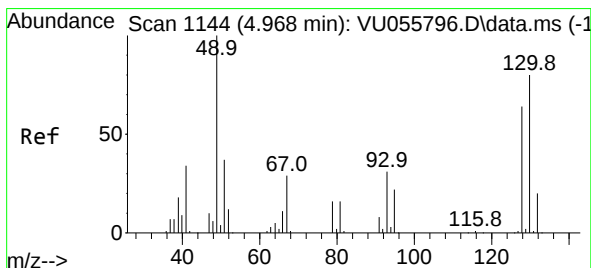
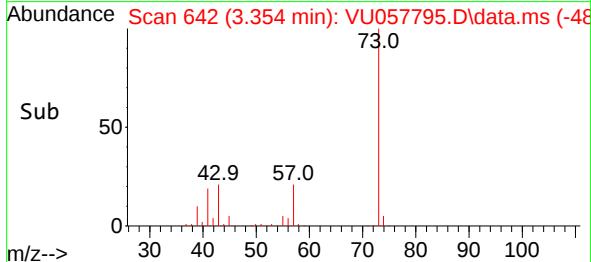
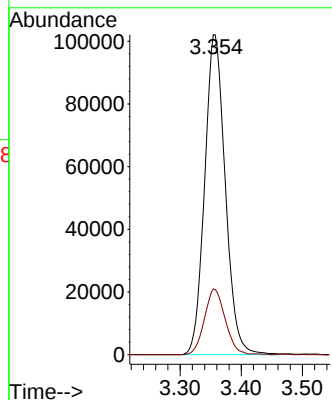
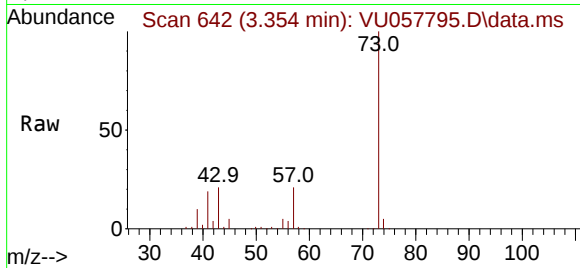




#25
Methyl tert-Butyl Ether
Concen: 9.637 ug/l
RT: 3.354 min Scan# 643
Delta R.T. -0.003 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

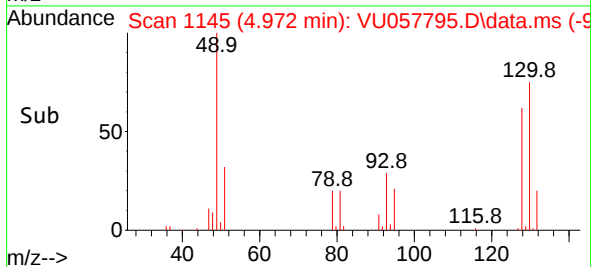
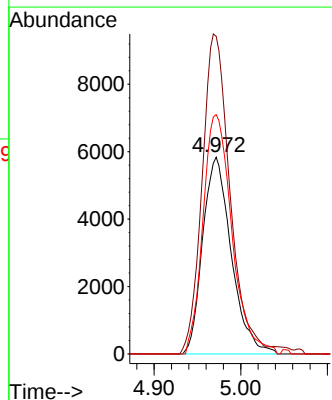
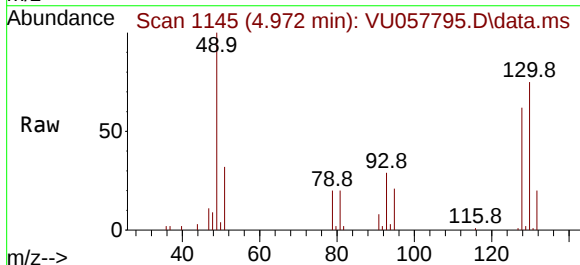
Instrument :
MSVOA_U
ClientSampleId :
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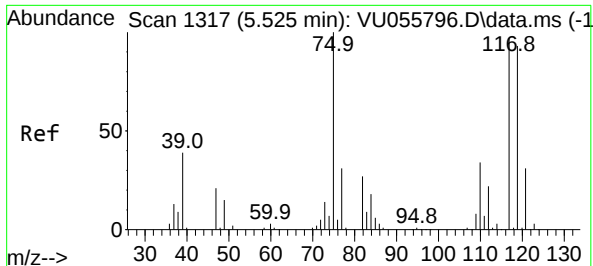
Tgt Ion: 73 Resp: 239499
Ion Ratio Lower Upper
73 100
43 20.7 15.0 22.6



#26
Bromochloromethane
Concen: 2.630 ug/l
RT: 4.972 min Scan# 1145
Delta R.T. 0.004 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion: 128 Resp: 13383
Ion Ratio Lower Upper
128 100
49 158.0 0.0 324.6
130 123.5 103.0 154.4





#29

1,1-Dichloropropene

Concen: 0.967 ug/l

RT: 5.525 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU057795.D

Acq: 02 Feb 2024 15:13

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

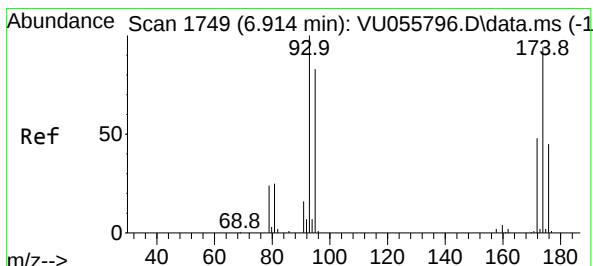
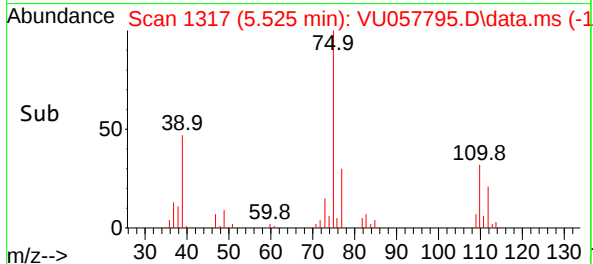
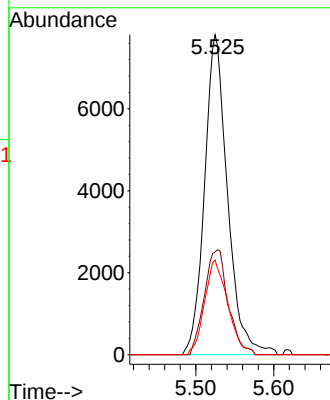
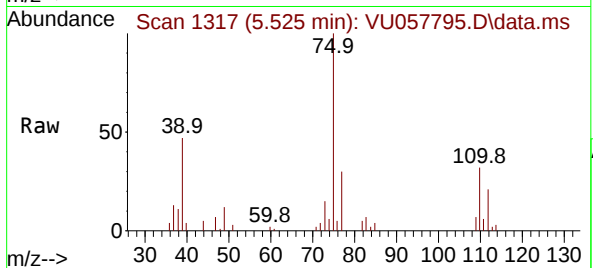
Tgt Ion: 75 Resp: 16033

Ion Ratio Lower Upper

75 100

110 33.9 18.0 54.0

77 29.8 24.7 37.1



#43

Dibromomethane

Concen: 2.393 ug/l

RT: 6.917 min Scan# 1750

Delta R.T. 0.003 min

Lab File: VU057795.D

Acq: 02 Feb 2024 15:13

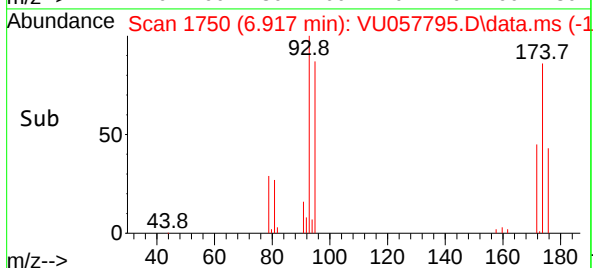
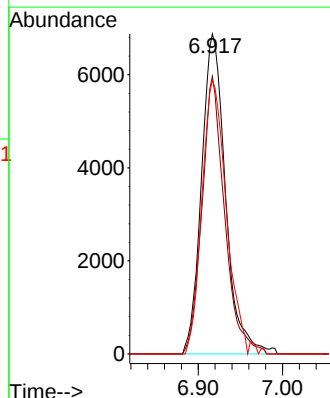
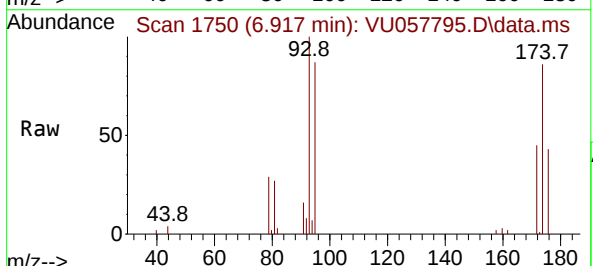
Tgt Ion: 93 Resp: 13619

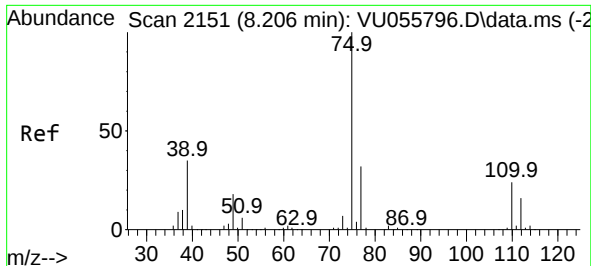
Ion Ratio Lower Upper

93 100

95 81.6 67.0 100.6

174 86.1 73.8 110.6





#50

t-1,3-Dichloropropene

Concen: 1.595 ug/l

RT: 8.209 min Scan# 2151

Delta R.T. 0.003 min

Lab File: VU057795.D

Acq: 02 Feb 2024 15:13

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ClientSampleId :

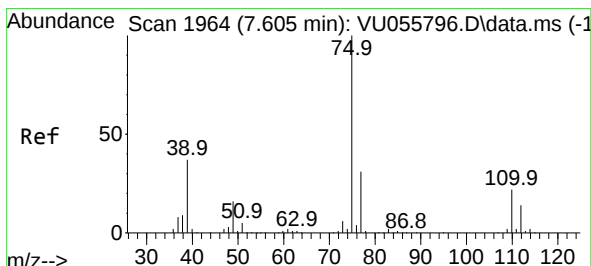
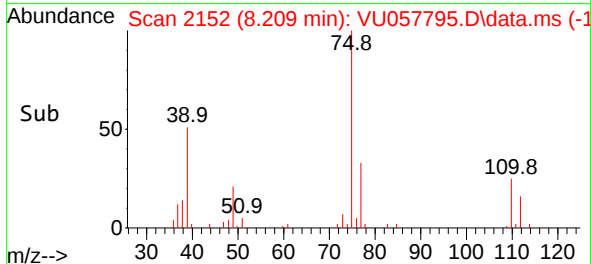
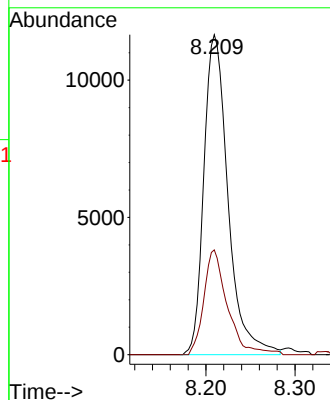
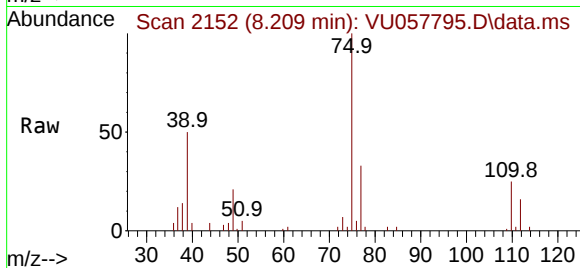
PT-UNRVOA-WSDL

Tgt Ion: 75 Resp: 21940

Ion Ratio Lower Upper

75 100

77 32.7 25.3 37.9



#51

cis-1,3-Dichloropropene

Concen: 2.749 ug/l

RT: 7.605 min Scan# 1964

Delta R.T. -0.000 min

Lab File: VU057795.D

Acq: 02 Feb 2024 15:13

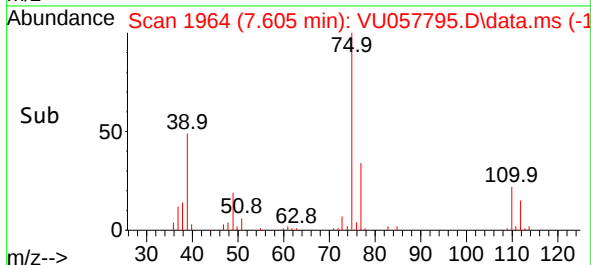
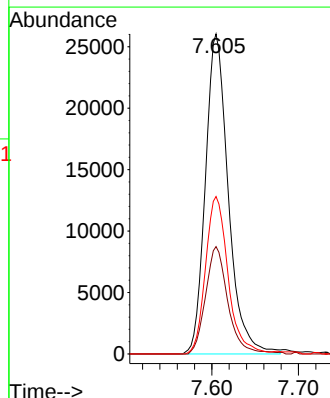
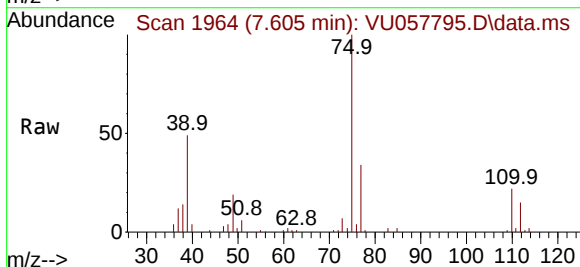
Tgt Ion: 75 Resp: 47912

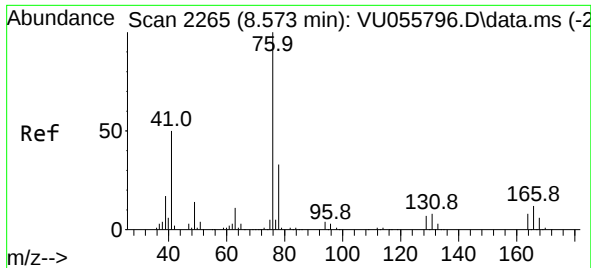
Ion Ratio Lower Upper

75 100

77 33.5 25.7 38.5

39 49.2 32.8 49.2#





#53

1,3-Dichloropropane

Concen: 1.526 ug/l

RT: 8.573 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU057795.D

Acq: 02 Feb 2024 15:13

Instrument :

MSVOA_U

ClientSampleId :

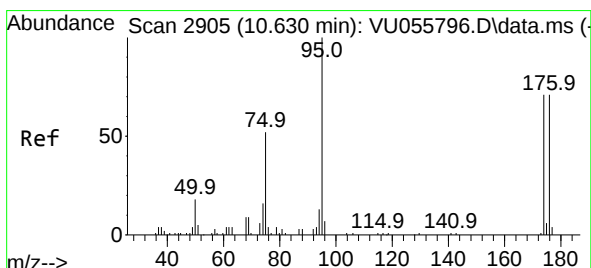
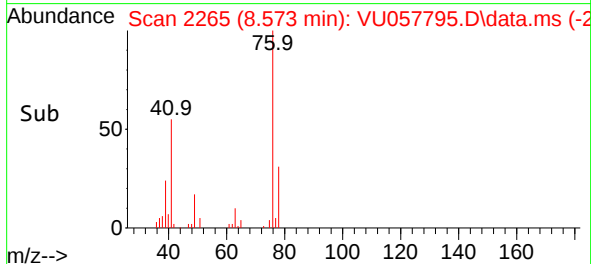
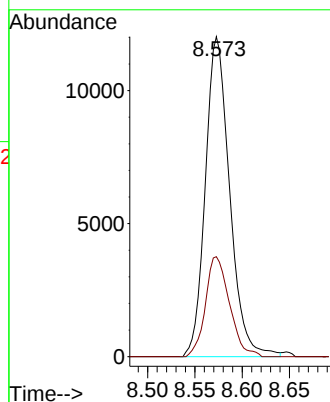
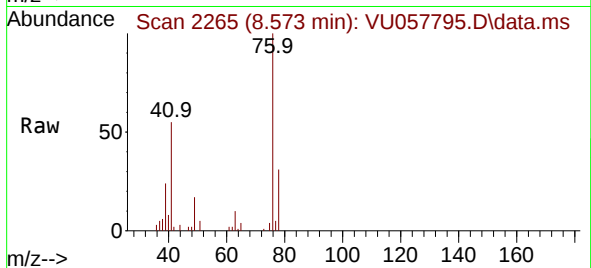
PT-UNRVOA-WSDL

Tgt Ion: 76 Resp: 21507

Ion Ratio Lower Upper

76 100

78 30.9 25.9 38.9



#57

4-Bromofluorobenzene

Concen: 0.902 ug/l

RT: 10.634 min Scan# 2906

Delta R.T. 0.004 min

Lab File: VU057795.D

Acq: 02 Feb 2024 15:13

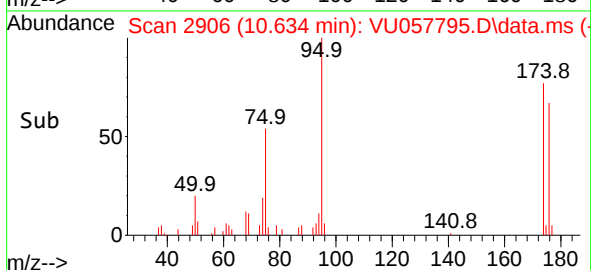
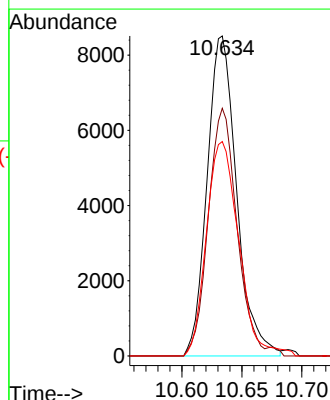
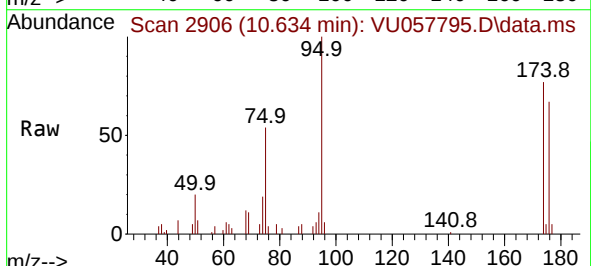
Tgt Ion: 95 Resp: 14560

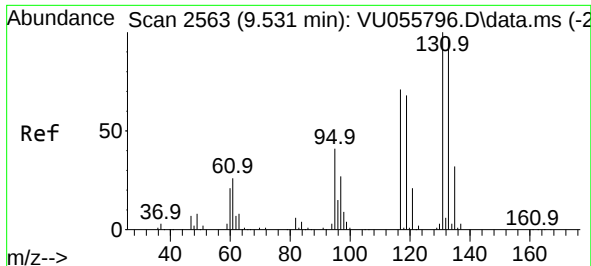
Ion Ratio Lower Upper

95 100

174 75.8 63.3 94.9

176 73.3 59.3 88.9

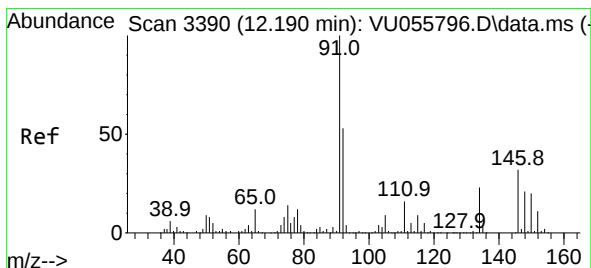
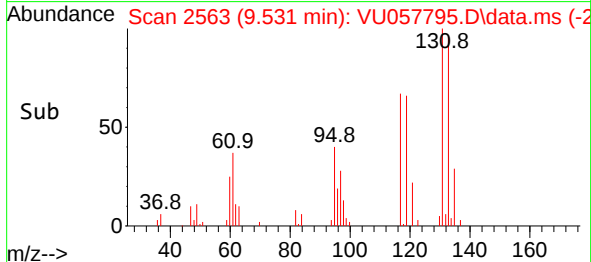
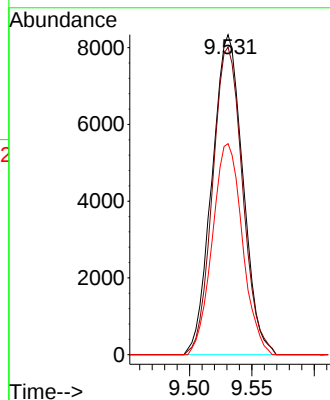
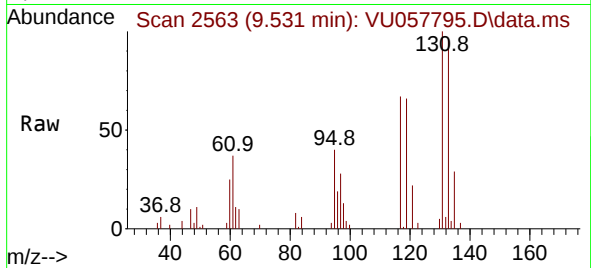




#60
 1,1,1,2-Tetrachloroethane
 Concen: 1.312 ug/l
 RT: 9.531 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

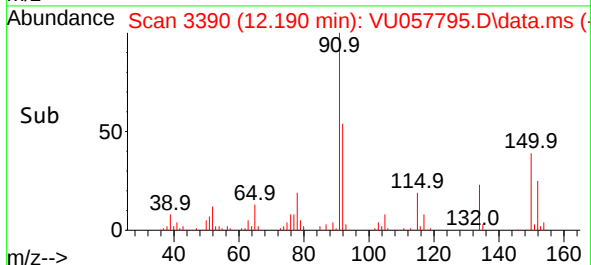
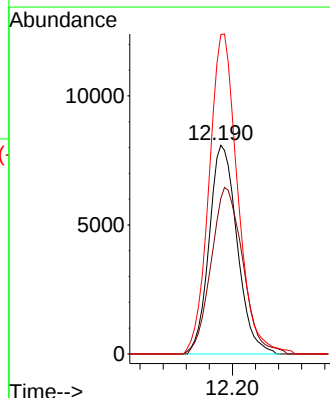
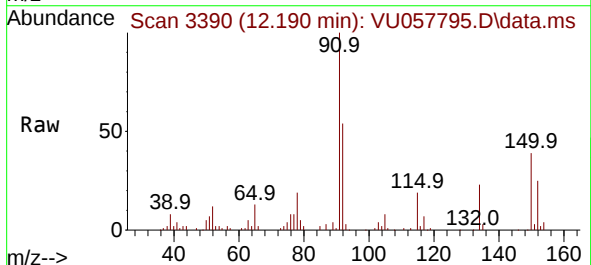
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

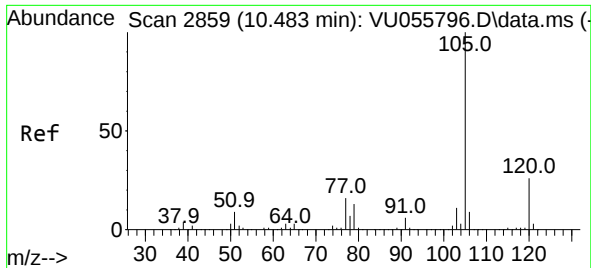
Tgt Ion:131 Resp: 14355
 Ion Ratio Lower Upper
 131 100
 133 93.3 77.8 116.6
 119 64.3 55.2 82.8



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.936 ug/l
 RT: 12.190 min Scan# 3390
 Delta R.T. -0.000 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

Tgt Ion:152 Resp: 13598
 Ion Ratio Lower Upper
 152 100
 115 90.3 0.0 308.8
 150 157.0 0.0 635.0

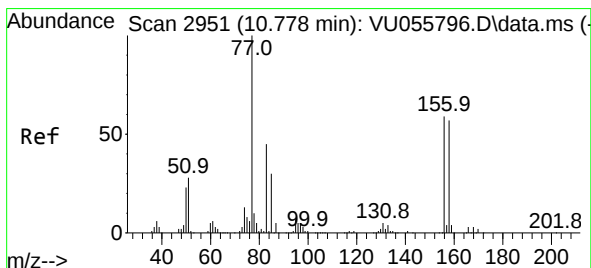
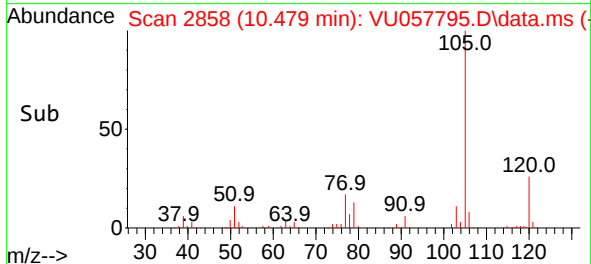
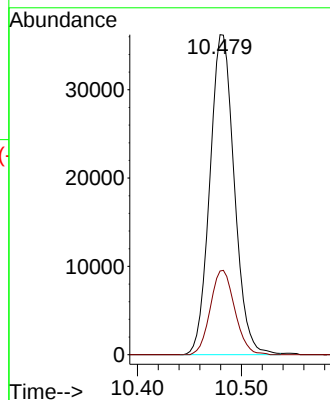
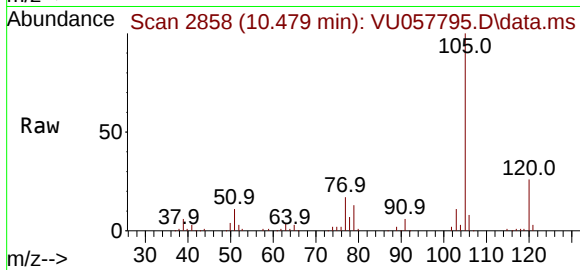




#69
Isopropylbenzene
Concen: 1.097 ug/l
RT: 10.479 min Scan# 2859
Delta R.T. -0.004 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

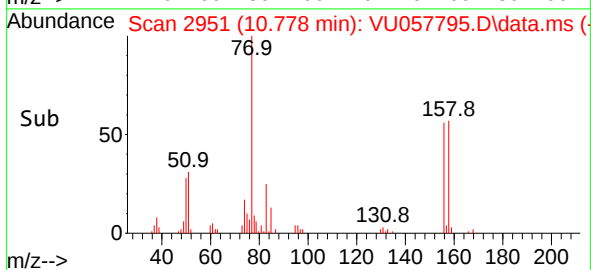
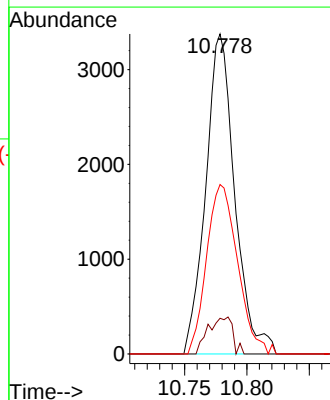
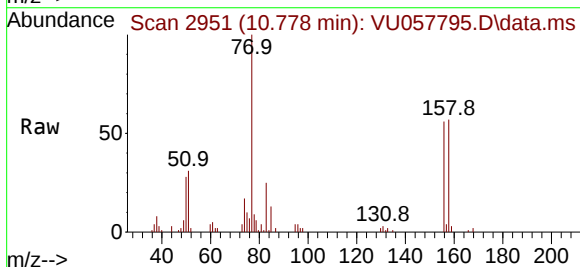
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

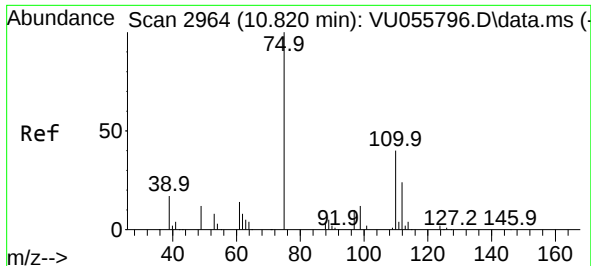
Tgt Ion:105 Resp: 59285
Ion Ratio Lower Upper
105 100
120 26.3 12.8 38.4



#70
1,1,2,2-Tetrachloroethane
Concen: 0.557 ug/l
RT: 10.778 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion: 83 Resp: 5472
Ion Ratio Lower Upper
83 100
131 9.7 7.2 10.8
85 56.5 50.5 75.7

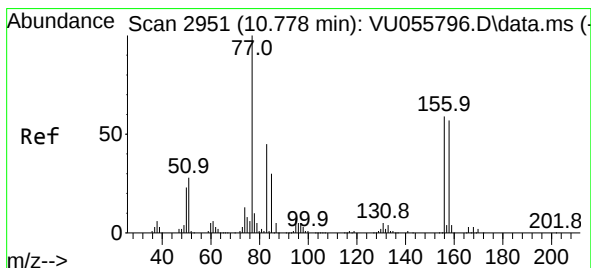
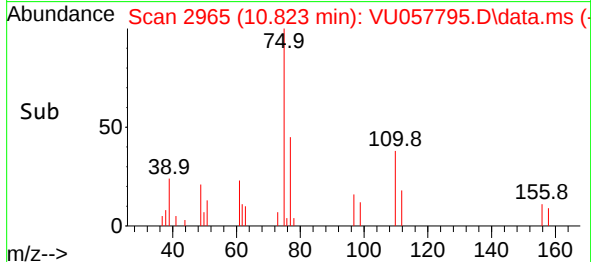
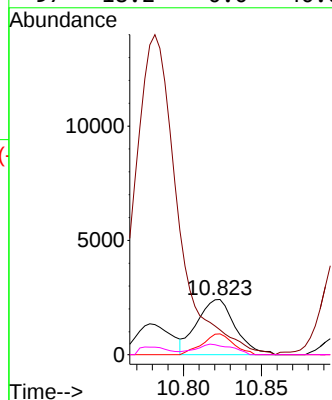
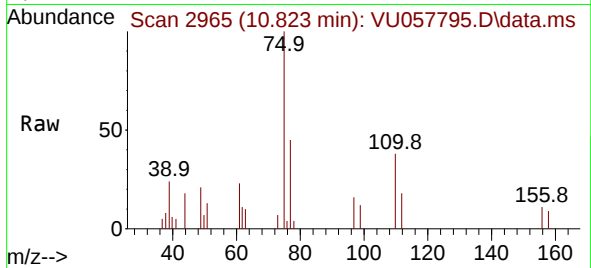




#71
1,2,3-Trichloropropane
Concen: 0.504 ug/l
RT: 10.823 min Scan# 2965
Delta R.T. 0.003 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

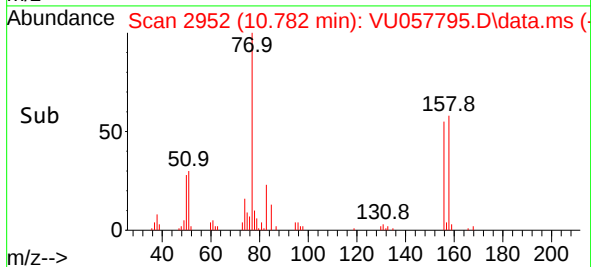
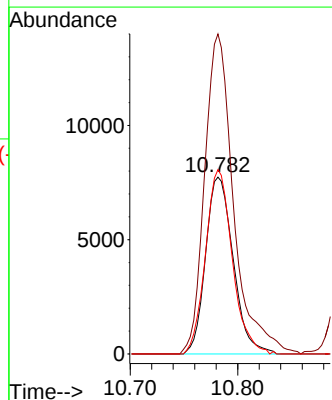
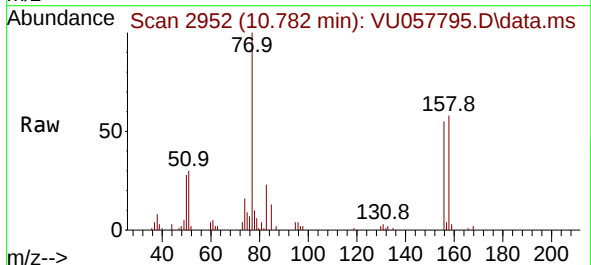
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

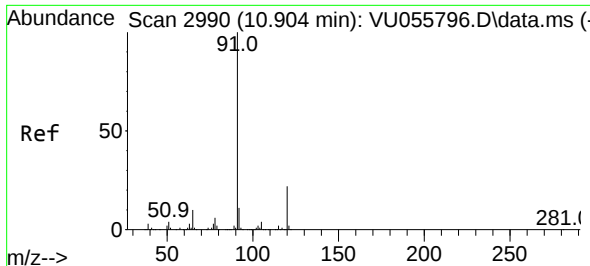
Tgt Ion:	75	Resp:	4089
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	116.4
110	30.6	0.0	74.6
97	18.2	0.0	40.0



#72
Bromobenzene
Concen: 1.162 ug/l
RT: 10.782 min Scan# 2952
Delta R.T. 0.004 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion:	156	Resp:	13813
Ion	Ratio	Lower	Upper
156	100		
77	190.0	0.0	343.0
158	101.3	0.0	194.8

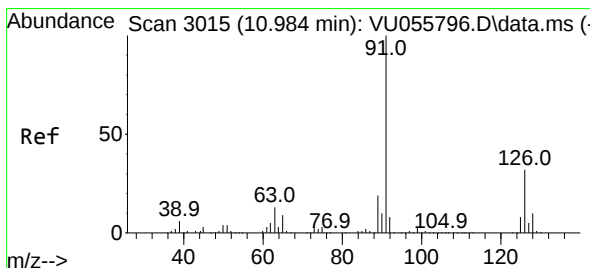
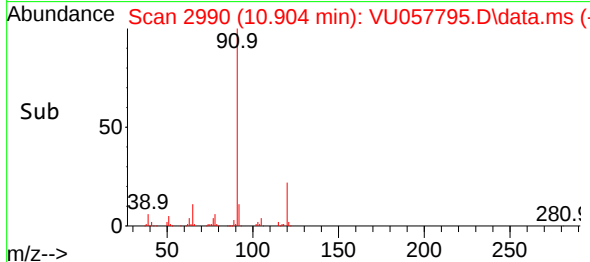
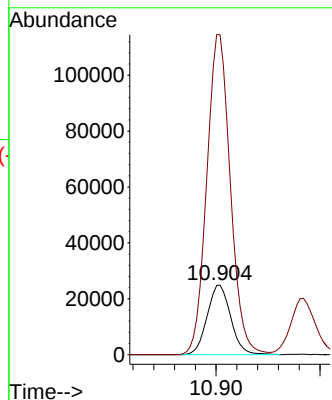
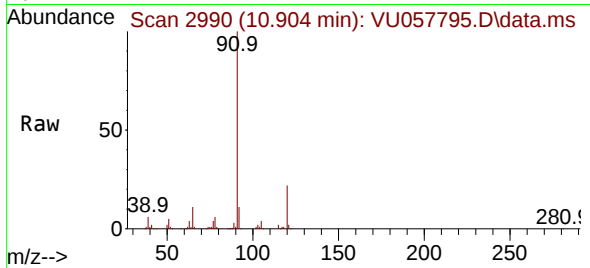




#73
n-propylbenzene
Concen: 2.886 ug/l
RT: 10.904 min Scan# 2990
Delta R.T. -0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

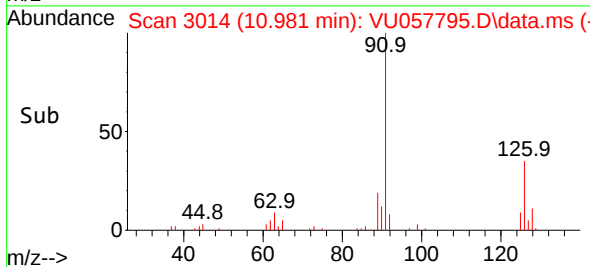
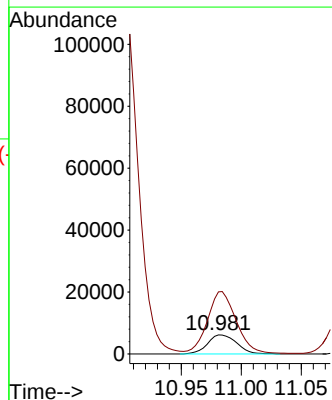
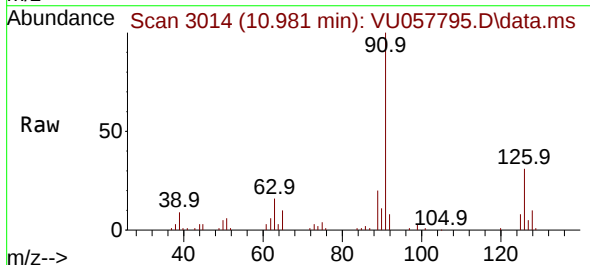
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

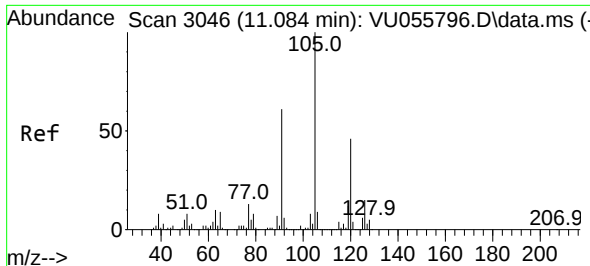
Tgt Ion:120 Resp: 39196
Ion Ratio Lower Upper
120 100
91 460.8 369.8 554.6



#74
2-Chlorotoluene
Concen: 0.825 ug/l
RT: 10.981 min Scan# 3014
Delta R.T. -0.003 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion:126 Resp: 10393
Ion Ratio Lower Upper
126 100
91 327.5 0.0 610.0

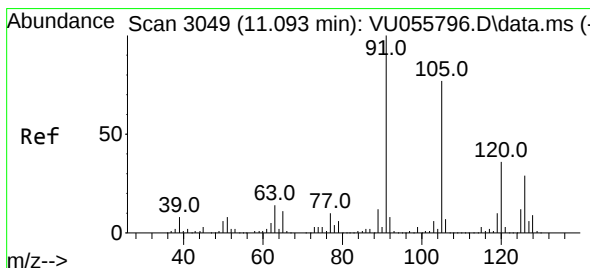
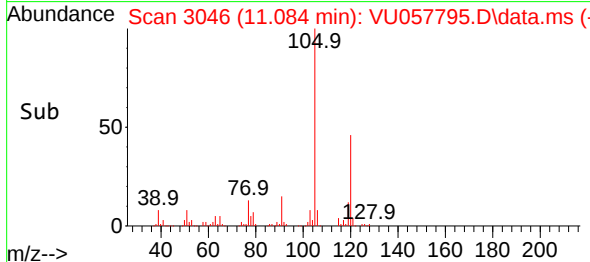
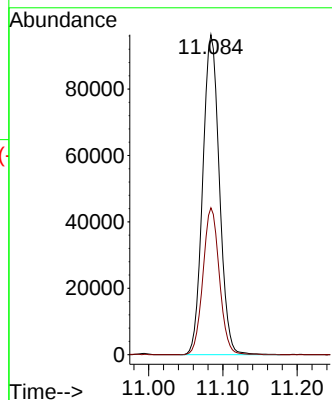
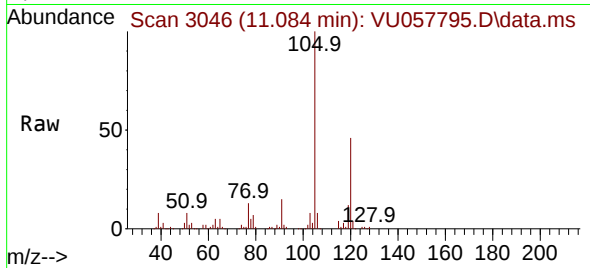




#75
1,3,5-Trimethylbenzene
Concen: 3.229 ug/l
RT: 11.084 min Scan# 3046
Delta R.T. -0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

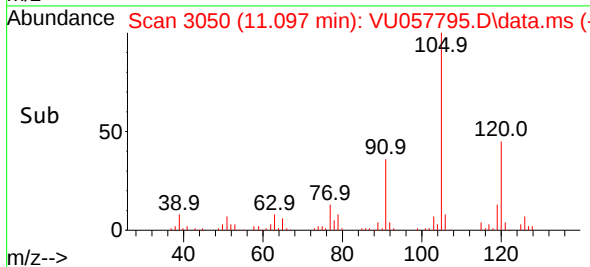
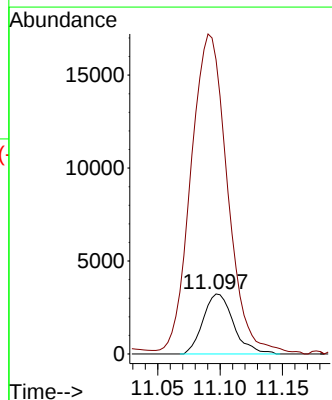
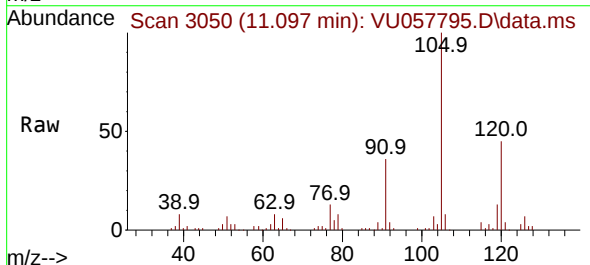
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

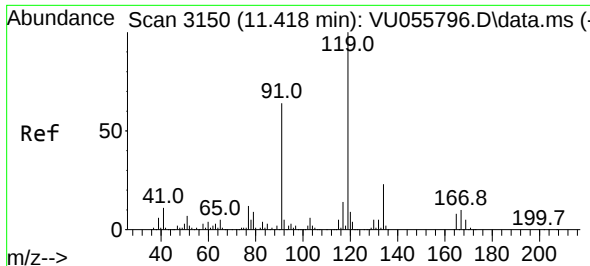
Tgt Ion:105 Resp: 149875
Ion Ratio Lower Upper
105 100
120 45.2 37.8 56.8



#76
4-Chlorotoluene
Concen: 0.432 ug/l
RT: 11.097 min Scan# 3050
Delta R.T. 0.004 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion:126 Resp: 5469
Ion Ratio Lower Upper
126 100
91 644.2 0.0 686.2

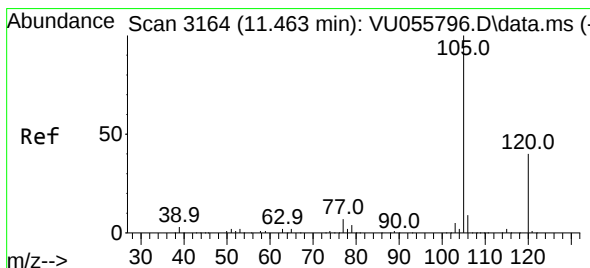
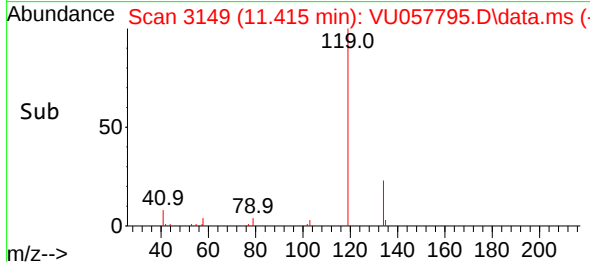
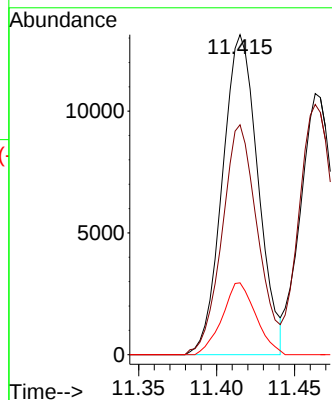
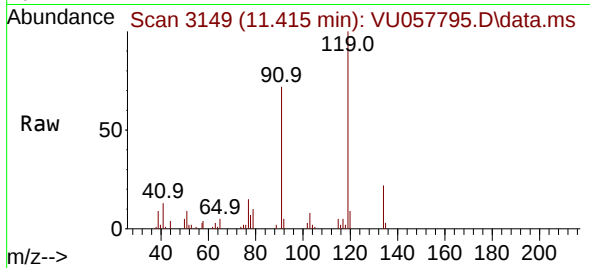




#77
tert-Butylbenzene
Concen: 0.480 ug/l
RT: 11.415 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

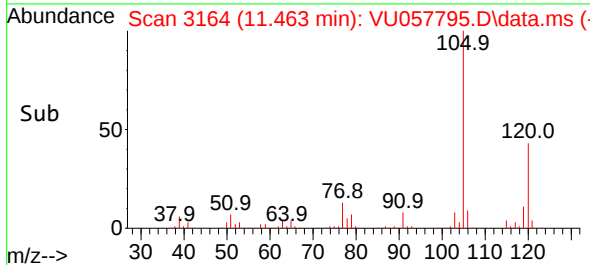
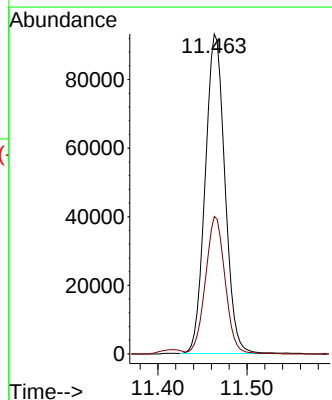
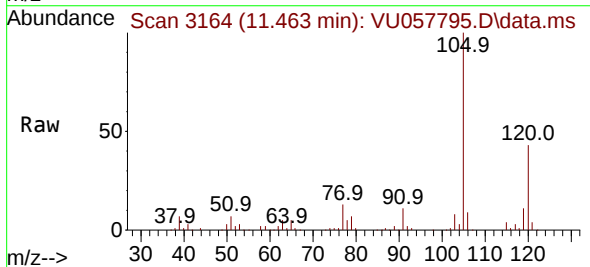
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

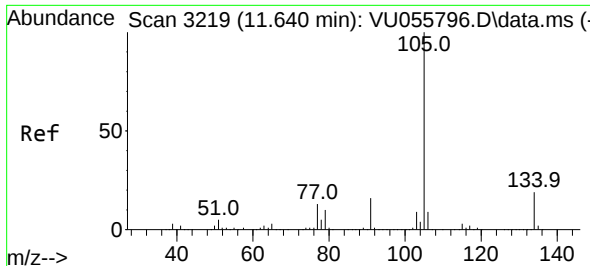
Tgt Ion:119 Resp: 20897
Ion Ratio Lower Upper
119 100
91 71.7 30.8 92.4
134 21.2 18.0 27.0



#78
1,2,4-Trimethylbenzene
Concen: 3.033 ug/l
RT: 11.463 min Scan# 3164
Delta R.T. 0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion:105 Resp: 142785
Ion Ratio Lower Upper
105 100
120 43.0 21.9 65.8

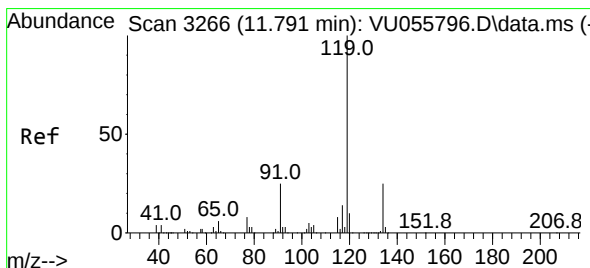
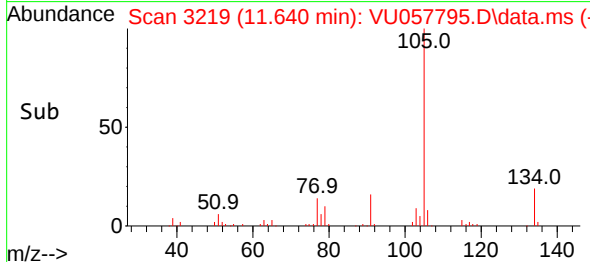
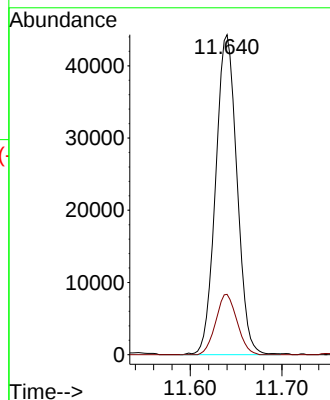
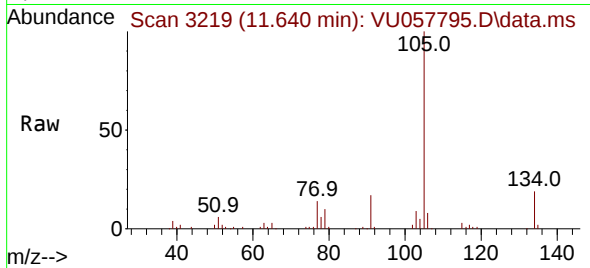




#79
 sec-Butylbenzene
 Concen: 1.285 ug/l
 RT: 11.640 min Scan# 3219
 Delta R.T. 0.000 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

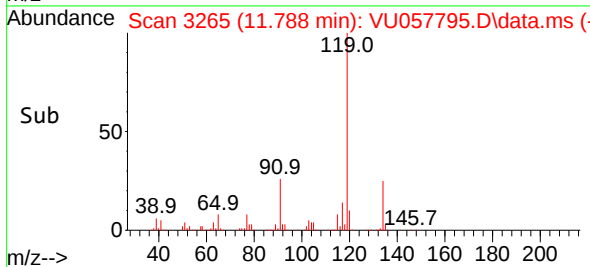
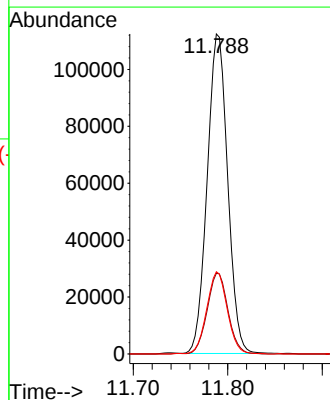
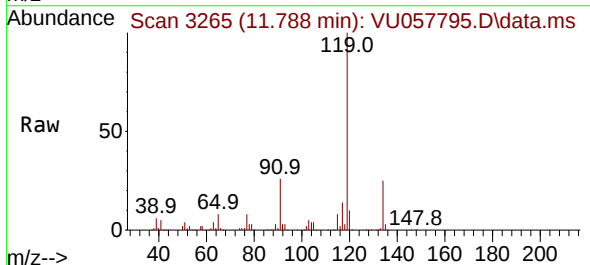
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

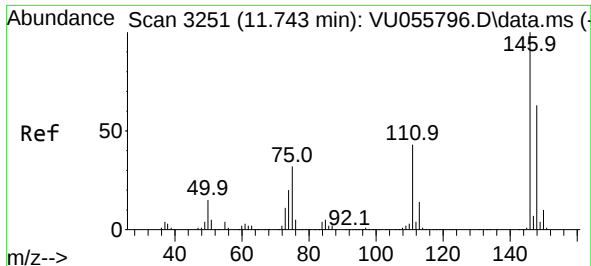
Tgt Ion:105 Resp: 71567
 Ion Ratio Lower Upper
 105 100
 134 18.8 14.9 22.3



#81
 p-Isopropyltoluene
 Concen: 3.595 ug/l
 RT: 11.788 min Scan# 3265
 Delta R.T. -0.003 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

Tgt Ion:119 Resp: 168737
 Ion Ratio Lower Upper
 119 100
 134 25.7 20.2 30.4
 91 25.8 19.3 28.9

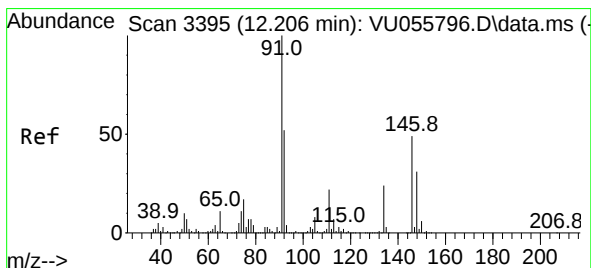
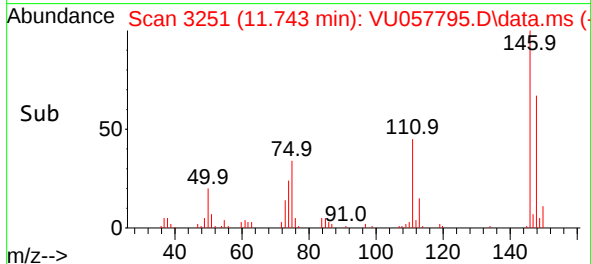
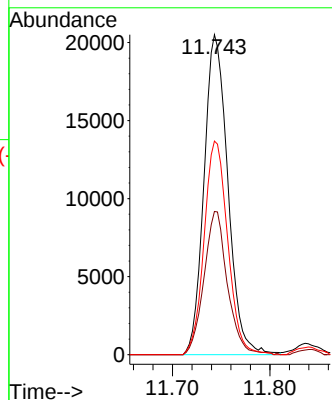
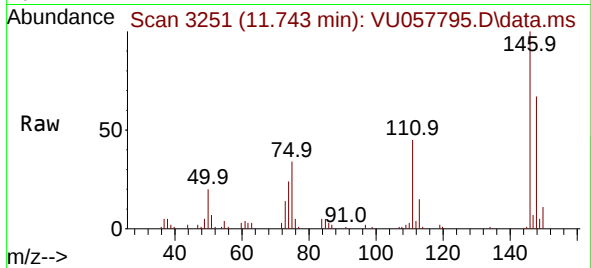




#82
1,3-Dichlorobenzene
Concen: 1.450 ug/l
RT: 11.743 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

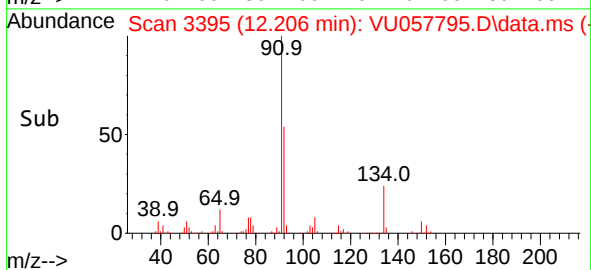
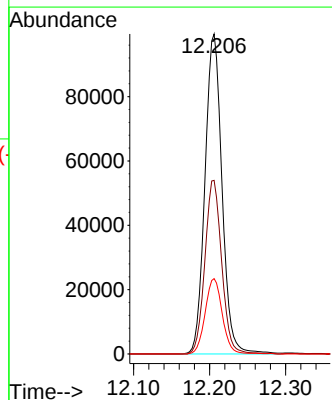
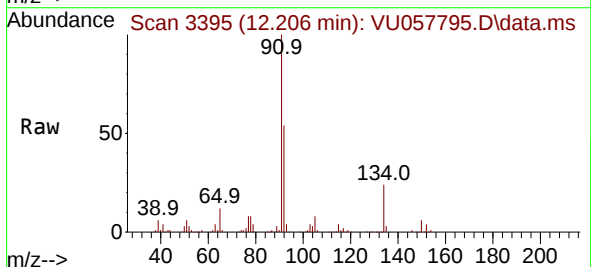
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

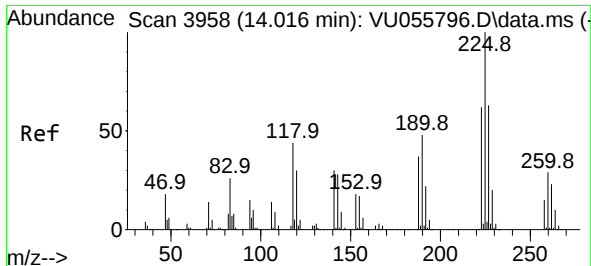
Tgt Ion:146 Resp: 34872
Ion Ratio Lower Upper
146 100
111 44.0 32.6 49.0
148 66.1 51.0 76.4



#84
n-Butylbenzene
Concen: 3.458 ug/l
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

Tgt Ion: 91 Resp: 155218
Ion Ratio Lower Upper
91 100
92 53.4 40.8 61.2
134 23.5 18.4 27.6

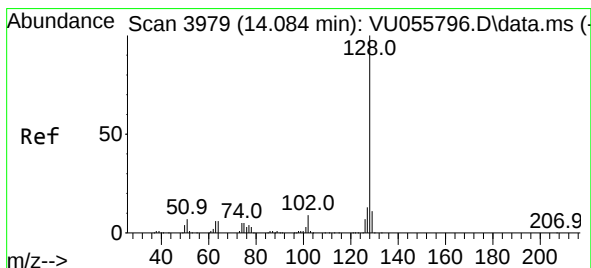
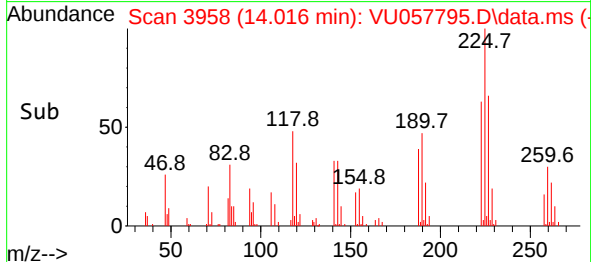
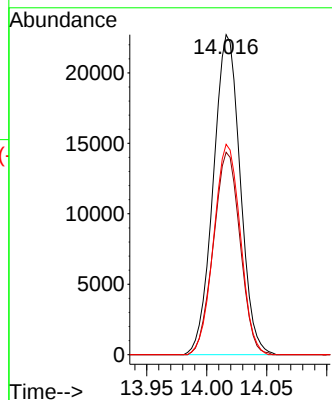
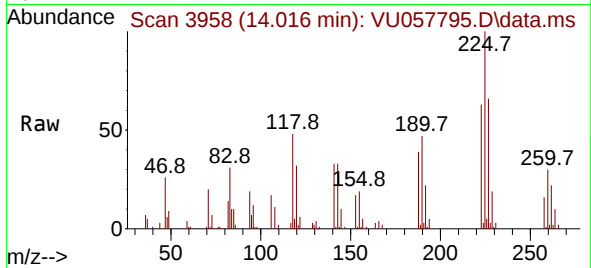




#88
Hexachlorobutadiene
Concen: 4.231 ug/l
RT: 14.016 min Scan# 3958
Delta R.T. 0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

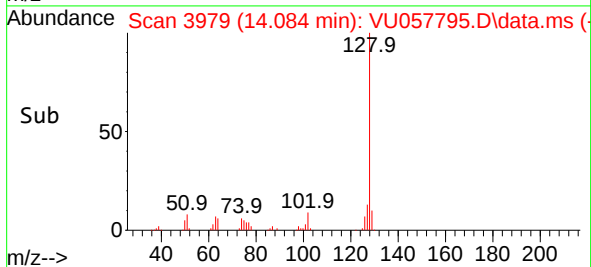
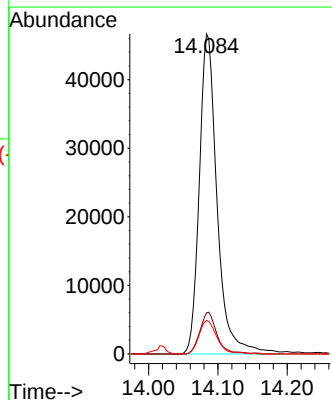
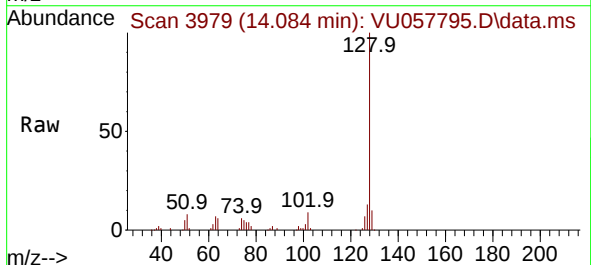
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

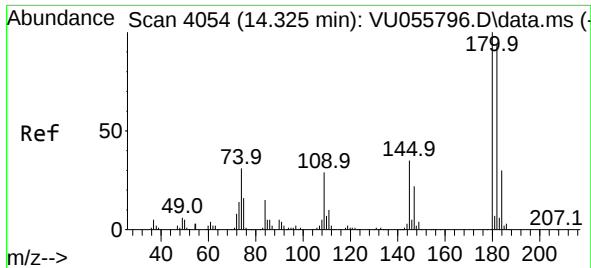
Tgt Ion:225 Resp: 35381
Ion Ratio Lower Upper
225 100
223 62.7 50.2 75.4
227 65.2 51.5 77.3



#89
Naphthalene
Concen: 4.143 ug/l
RT: 14.084 min Scan# 3979
Delta R.T. -0.000 min
Lab File: VU057795.D
Acq: 02 Feb 2024 15:13

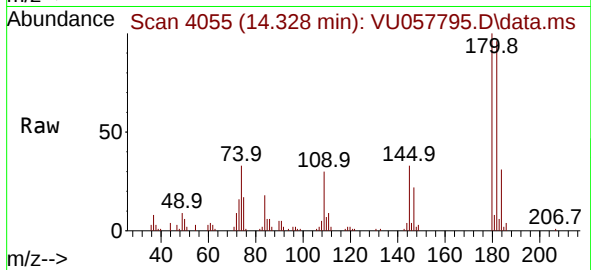
Tgt Ion:128 Resp: 83364
Ion Ratio Lower Upper
128 100
127 12.5 10.9 16.3
129 10.5 8.6 12.8





#90
 1,2,3-Trichlorobenzene
 Concen: 2.707 ug/l
 RT: 14.328 min Scan# 4055
 Delta R.T. 0.003 min
 Lab File: VU057795.D
 Acq: 02 Feb 2024 15:13

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL



Tgt Ion:	180	Resp:	29349
Ion Ratio	Lower	Upper	
180	100		
182	95.7	75.7	113.5
145	33.7	26.1	39.1

