

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071921\
 Data File : VU044361.D
 Acq On : 19 Jul 2021 14:28
 Operator : SY/MD
 Sample : M3035-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS

Quant Time: Jul 20 01:21:13 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071621DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 16 14:36:39 2021
 Response via : Initial Calibration

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

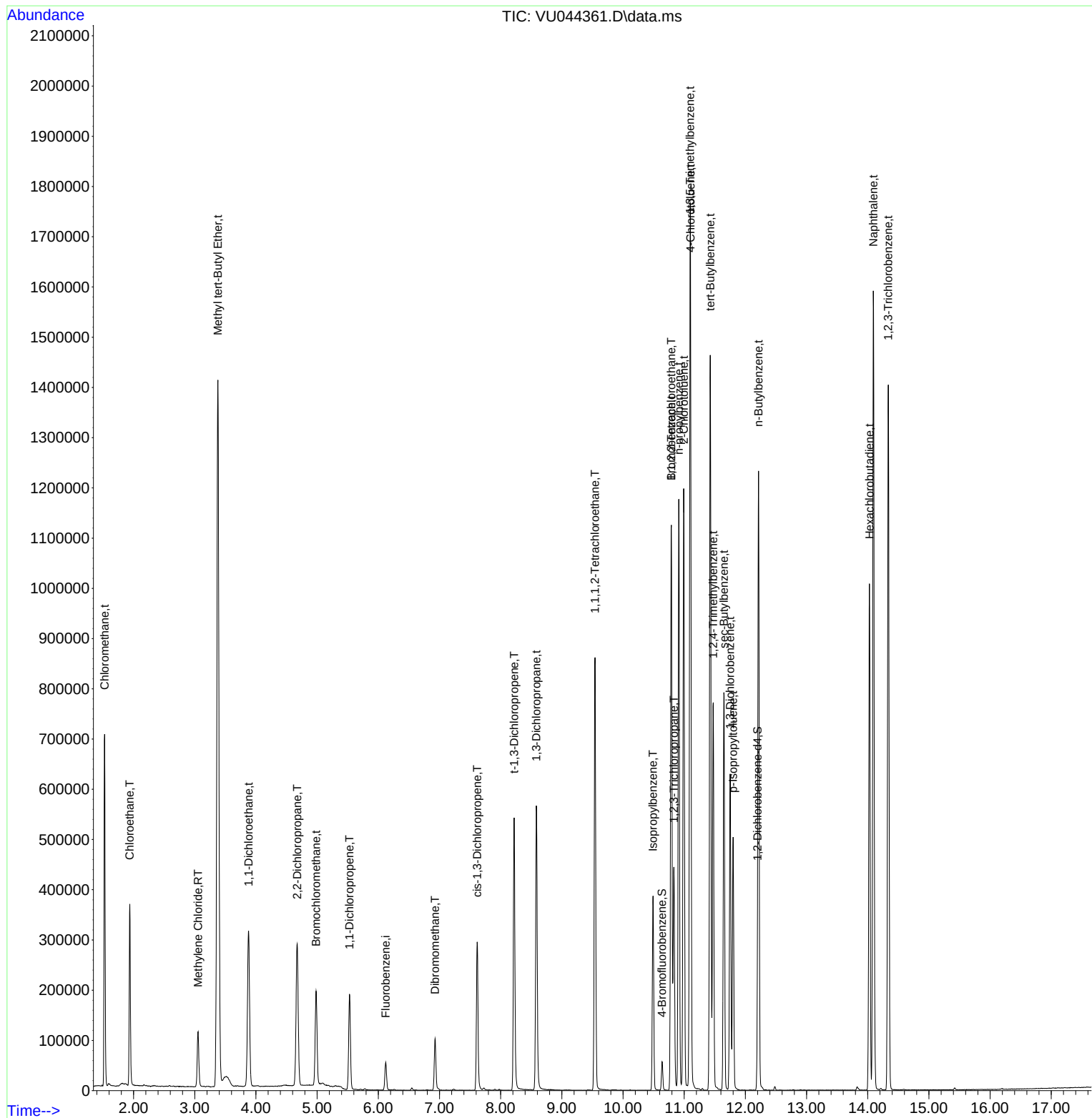
Internal Standards						
1) Fluorobenzene	6.121	96	51340	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	19926	0.962	ug/l	0.00
Spiked Amount 1.000			Recovery	=	96.000%	
68) 1,2-Dichlorobenzene-d4	12.198	152	20362	1.008	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.527	50	520871	26.729	ug/l	99
6) Chloroethane	1.938	64	243649	20.354	ug/l	99
15) Methylene Chloride	3.054	84	51304	2.757	ug/l	95
17) 1,1-Dichloroethane	3.880	63	368780	13.541	ug/l	99
21) 2,2-Dichloropropane	4.674	77	223679	10.016	ug/l	98
25) Methyl tert-Butyl Ether	3.379	73	1687398	46.107	ug/l	93
26) Bromochloromethane	4.983	128	56923	8.415	ug/l	98
29) 1,1-Dichloropropene	5.530	75	103919	4.976	ug/l	98
43) Dibromomethane	6.928	93	42575	5.343	ug/l	98
50) t-1,3-Dichloropropene	8.221	75	316607	16.126	ug/l	99
51) cis-1,3-Dichloropropene	7.616	75	181399	7.832	ug/l	94
53) 1,3-Dichloropropane	8.584	76	361421	16.758	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.542	131	235559	17.510	ug/l	98
69) Isopropylbenzene	10.491	105	258616	3.633	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.790	83	88548	5.714	ug/l	96
71) 1,2,3-Trichloropropane	10.832	75	193272	14.549	ug/l	82
72) Bromobenzene	10.790	156	268271	16.279	ug/l	95
73) n-propylbenzene	10.912	120	198985	10.372	ug/l	91
74) 2-Chlorotoluene	10.993	126	220206	13.380	ug/l	88
75) 1,3,5-Trimethylbenzene	11.095	105	479103	7.964	ug/l	99
76) 4-Chlorotoluene	11.105	126	207946	12.163	ug/l	97
77) tert-Butylbenzene	11.427	119	700330	11.877	ug/l	92
78) 1,2,4-Trimethylbenzene	11.475	105	424714	6.955	ug/l	100
79) sec-Butylbenzene	11.648	105	542327	6.753	ug/l	98
81) p-Isopropyltoluene	11.800	119	285654	4.296	ug/l	97
82) 1,3-Dichlorobenzene	11.751	146	255251	7.798	ug/l	100
84) n-Butylbenzene	12.214	91	676525	10.391	ug/l	99
88) Hexachlorobutadiene	14.028	225	175604	16.176	ug/l	99
89) Naphthalene	14.092	128	1257552	28.028	ug/l	100
90) 1,2,3-Trichlorobenzene	14.336	180	427201	20.974	ug/l	99

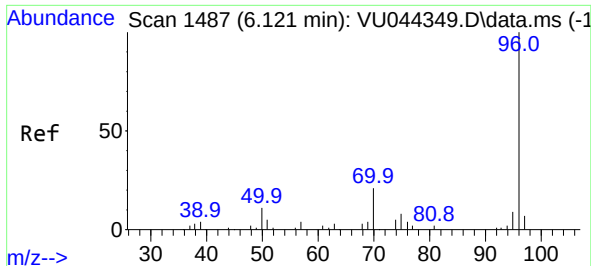
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Jul 16 14:36:39 2021
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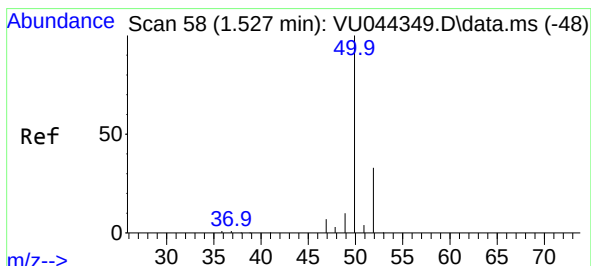
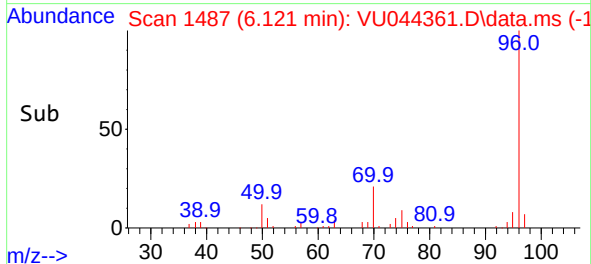
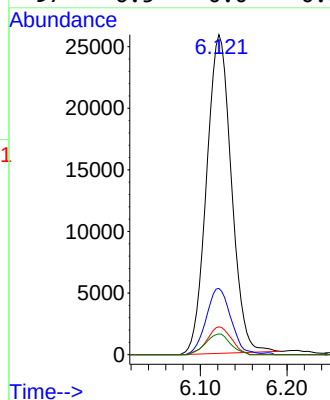
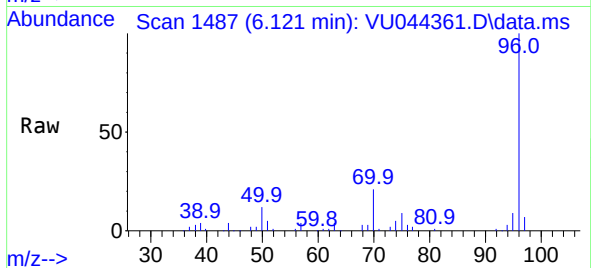




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.121 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

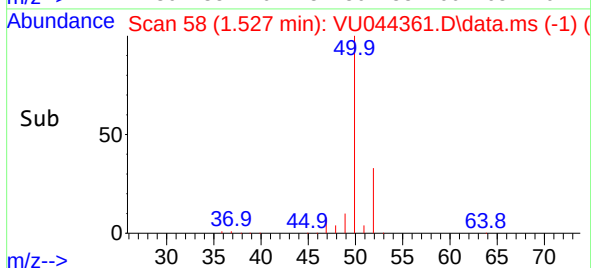
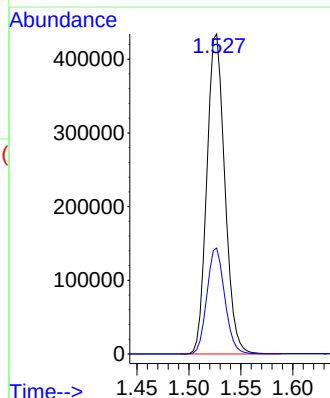
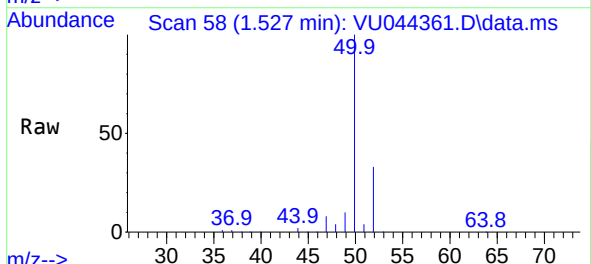
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

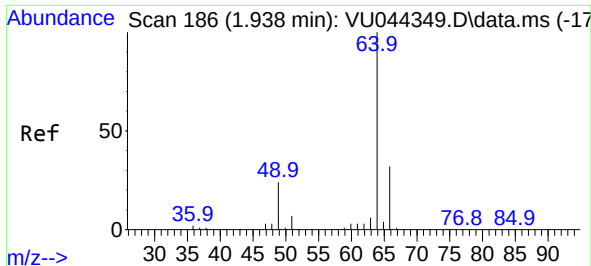
Tgt Ion: 96	Resp: 51340
Ion Ratio	Lower Upper
96 100	
70 20.3	16.2 24.2
95 8.6	7.3 10.9
97 6.5	0.0 0.0#



#3
Chloromethane
Concen: 26.729 ug/l
RT: 1.527 min Scan# 58
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 50	Resp: 520871
Ion Ratio	Lower Upper
50 100	
52 33.1	26.7 40.1

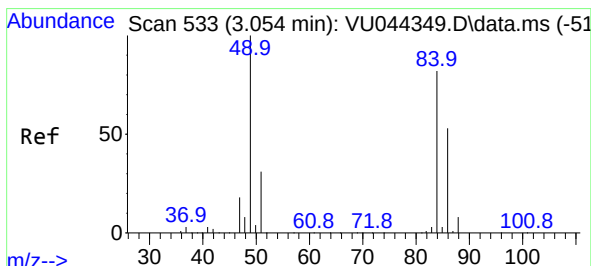
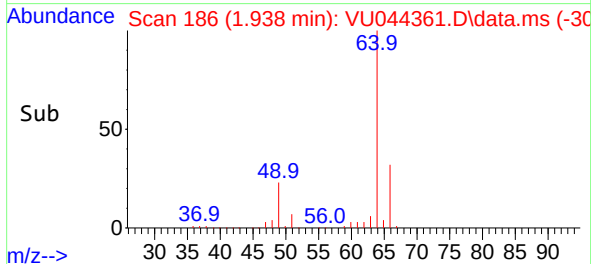
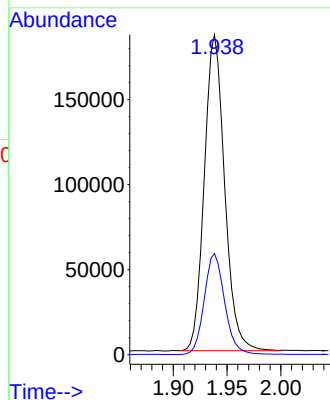
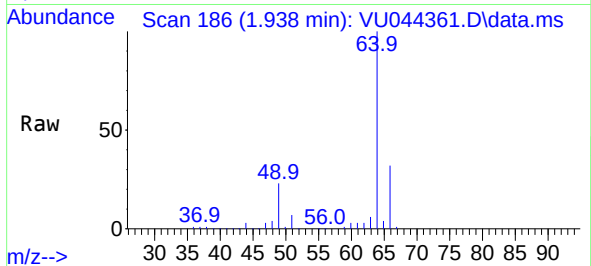




#6
Chloroethane
Concen: 20.354 ug/l
RT: 1.938 min Scan# 186
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

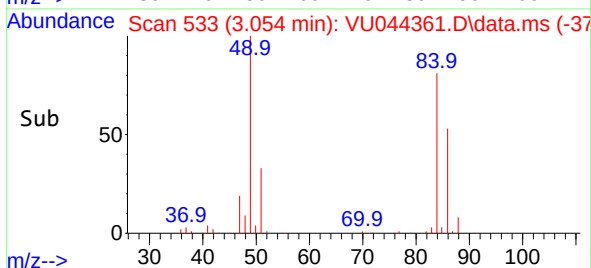
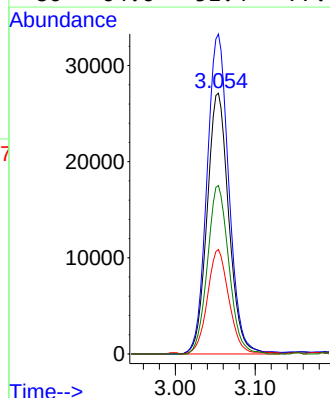
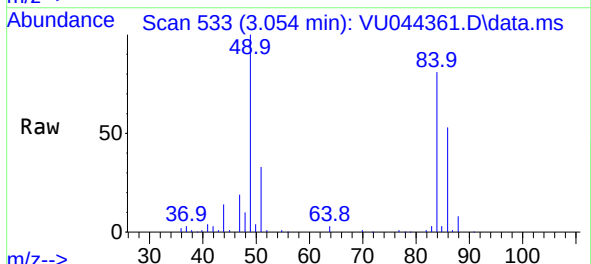
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

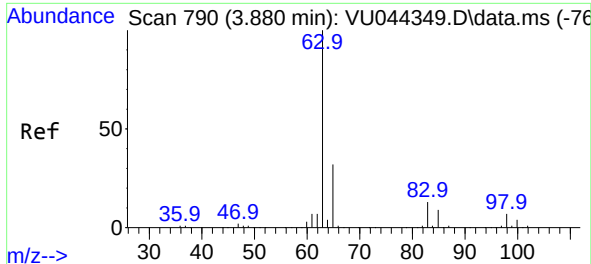
Tgt Ion: 64 Resp: 243649
Ion Ratio Lower Upper
64 100
66 31.9 26.1 39.1



#15
Methylene Chloride
Concen: 2.757 ug/l
RT: 3.054 min Scan# 533
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 84 Resp: 51304
Ion Ratio Lower Upper
84 100
49 122.7 106.3 159.5
51 40.1 0.0 81.8
86 64.6 51.4 77.0

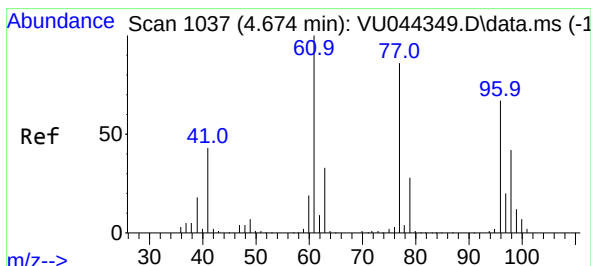
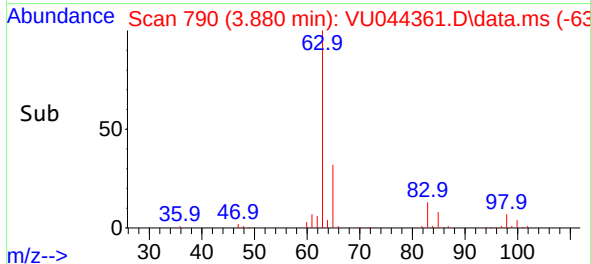
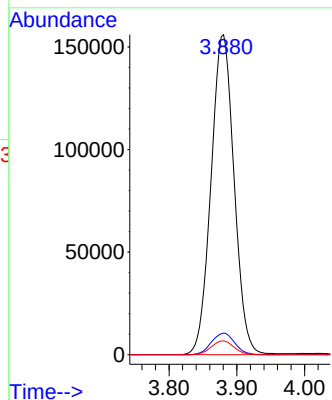
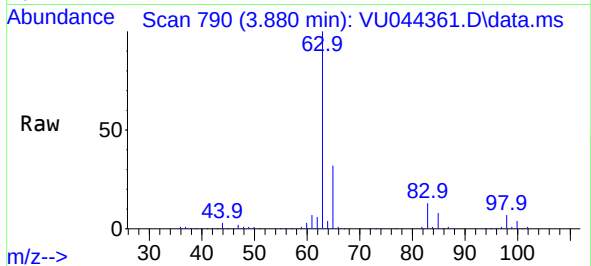




#17
1,1-Dichloroethane
Concen: 13.541 ug/l
RT: 3.880 min Scan# 790
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

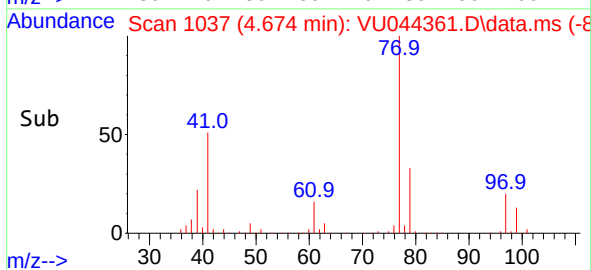
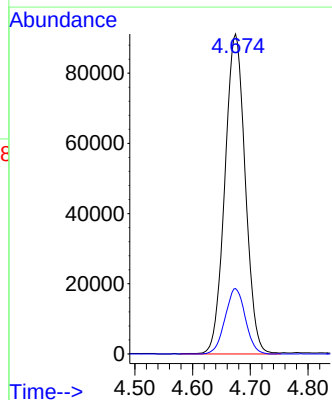
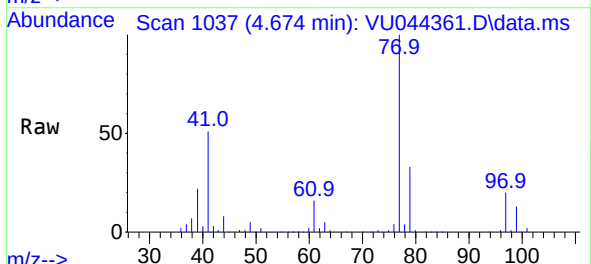
Instrument :
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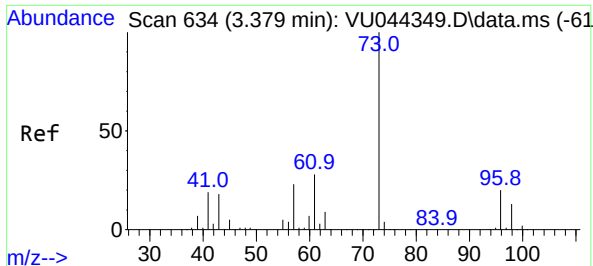
Tgt Ion: 63 Resp: 368780
Ion Ratio Lower Upper
63 100
98 6.7 3.5 10.5
100 4.3 2.0 5.8



#21
2,2-Dichloropropane
Concen: 10.016 ug/l
RT: 4.674 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 77 Resp: 223679
Ion Ratio Lower Upper
77 100
97 20.3 16.8 25.2

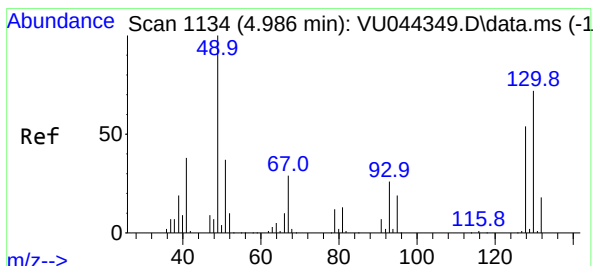
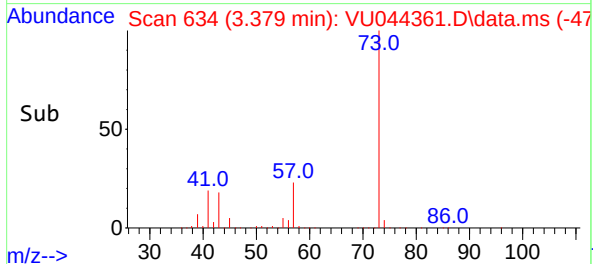
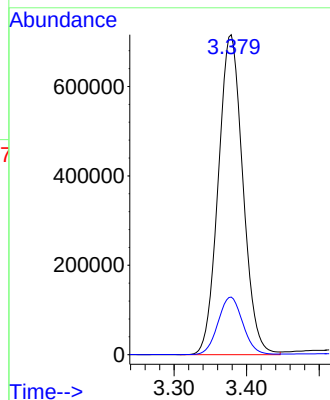
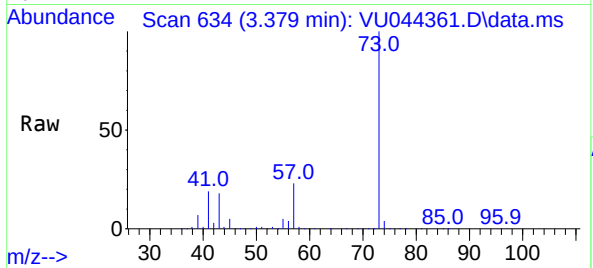




#25
Methyl tert-Butyl Ether
Concen: 46.107 ug/l
RT: 3.379 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

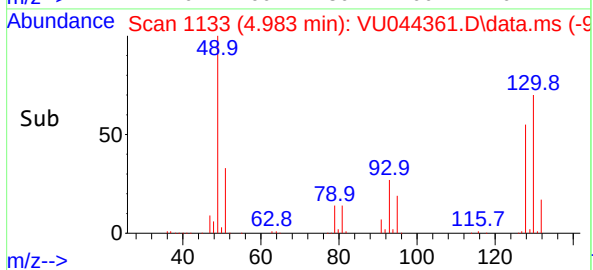
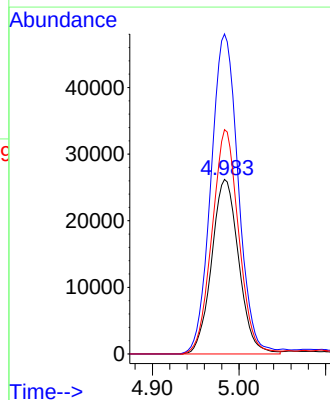
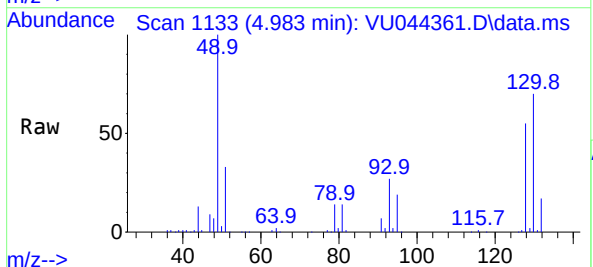
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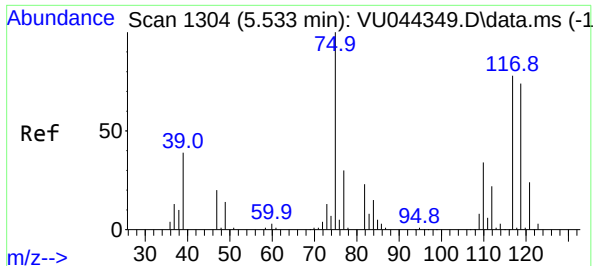
Tgt Ion: 73 Resp: 1687398
Ion Ratio Lower Upper
73 100
43 18.1 17.3 25.9



#26
Bromochloromethane
Concen: 8.415 ug/l
RT: 4.983 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 128 Resp: 56923
Ion Ratio Lower Upper
128 100
49 184.7 0.0 364.2
130 126.9 103.5 155.3

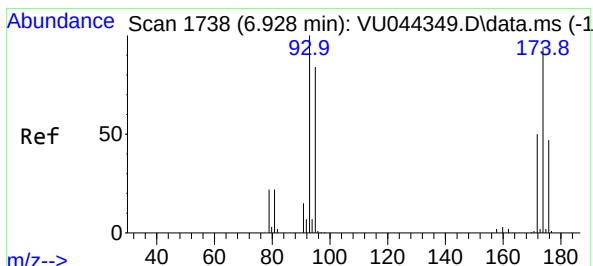
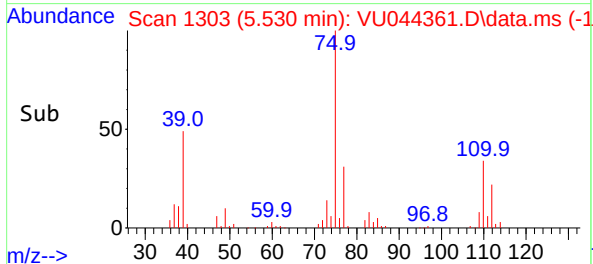
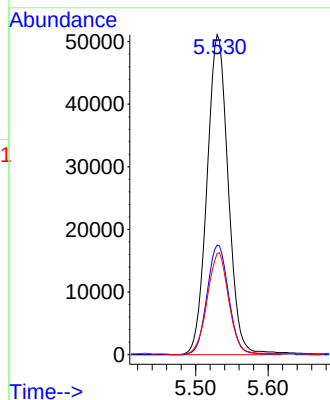
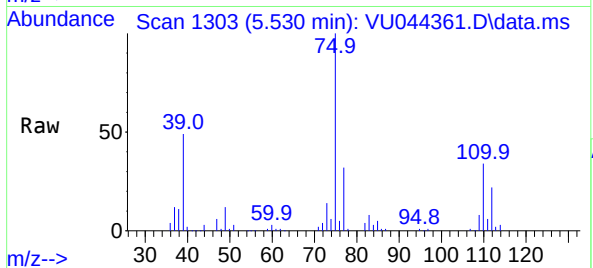




#29
1,1-Dichloropropene
Concen: 4.976 ug/l
RT: 5.530 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

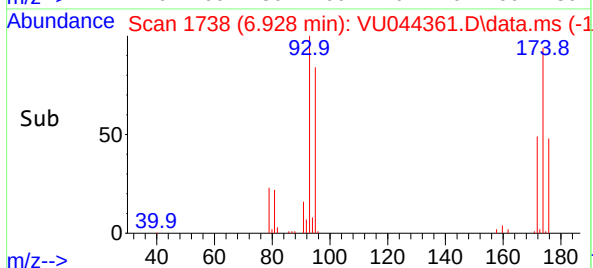
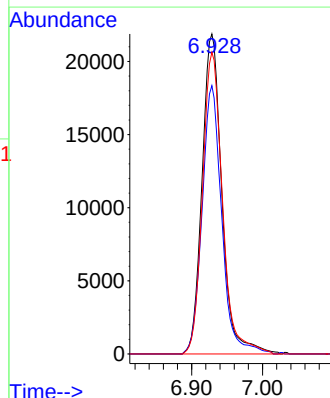
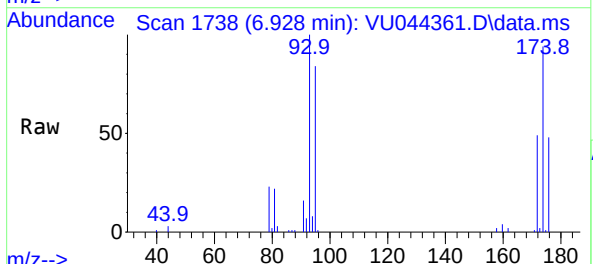
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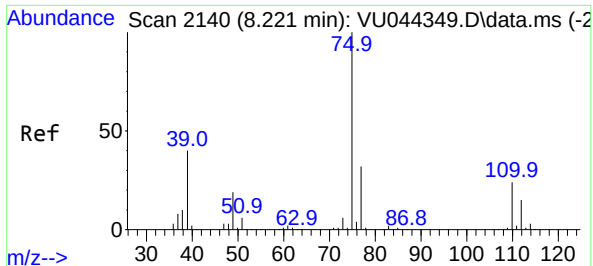
Tgt Ion: 75 Resp: 103919
Ion Ratio Lower Upper
75 100
110 34.8 17.3 51.9
77 32.3 24.6 37.0



#43
Dibromomethane
Concen: 5.343 ug/l
RT: 6.928 min Scan# 1738
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 93 Resp: 42575
Ion Ratio Lower Upper
93 100
95 83.1 65.2 97.8
174 95.1 78.2 117.4





#50

t-1,3-Dichloropropene

Concen: 16.126 ug/l

RT: 8.221 min Scan# 2140

Delta R.T. 0.000 min

Lab File: VU044361.D

Acq: 19 Jul 2021 14:28

Instrument :

MSVOA_U

ClientSampleId :

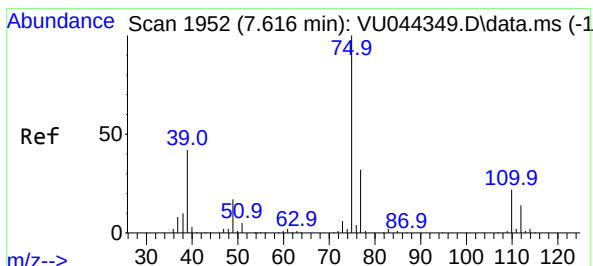
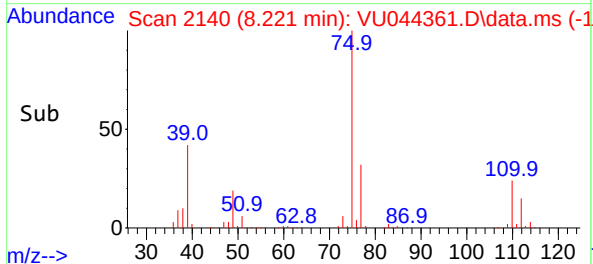
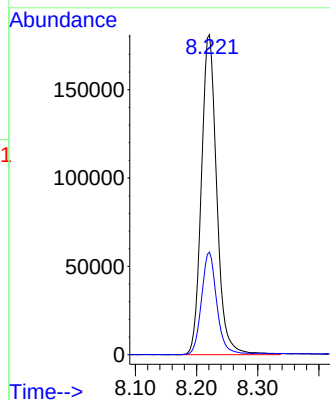
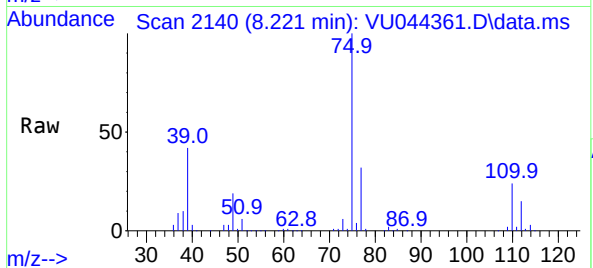
PT-UNRVOA-WS

Tgt Ion: 75 Resp: 316607

Ion Ratio Lower Upper

75 100

77 32.1 26.2 39.2



#51

cis-1,3-Dichloropropene

Concen: 7.832 ug/l

RT: 7.616 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VU044361.D

Acq: 19 Jul 2021 14:28

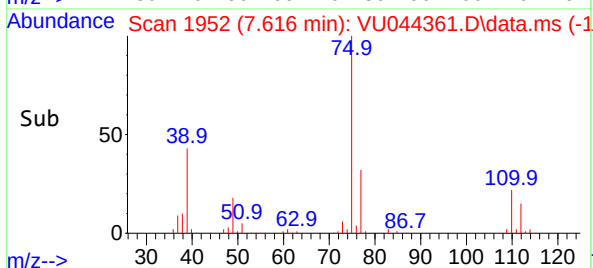
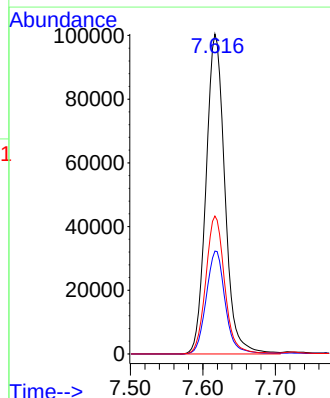
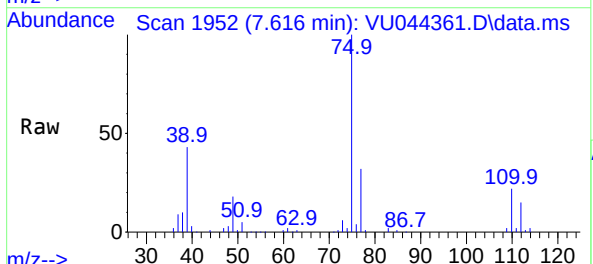
Tgt Ion: 75 Resp: 181399

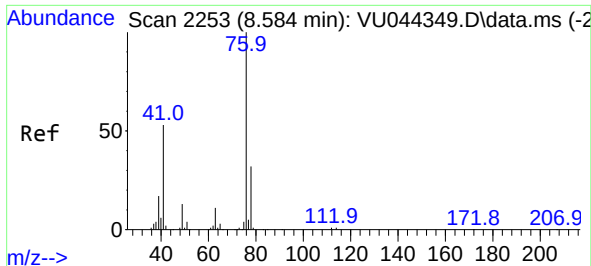
Ion Ratio Lower Upper

75 100

77 32.1 24.3 36.5

39 43.1 38.5 57.7





#53

1,3-Dichloropropane

Concen: 16.758 ug/l

RT: 8.584 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU044361.D

Acq: 19 Jul 2021 14:28

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ClientSampleId :

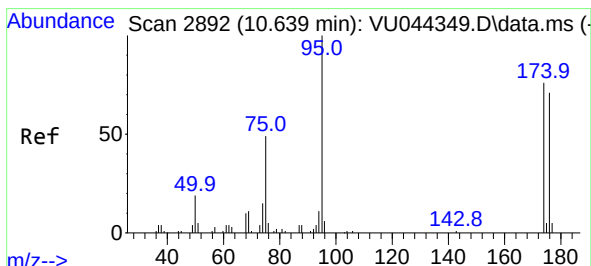
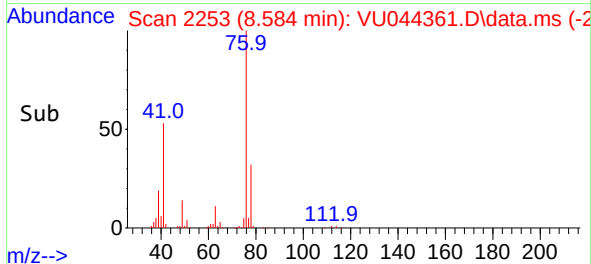
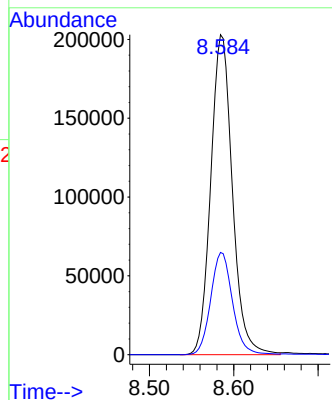
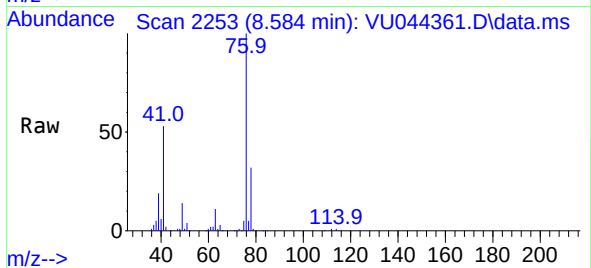
PT-UNRVOA-WS

Tgt Ion: 76 Resp: 361421

Ion Ratio Lower Upper

76 100

78 32.2 25.9 38.9



#57

4-Bromofluorobenzene

Concen: 0.962 ug/l

RT: 10.639 min Scan# 2892

Delta R.T. 0.000 min

Lab File: VU044361.D

Acq: 19 Jul 2021 14:28

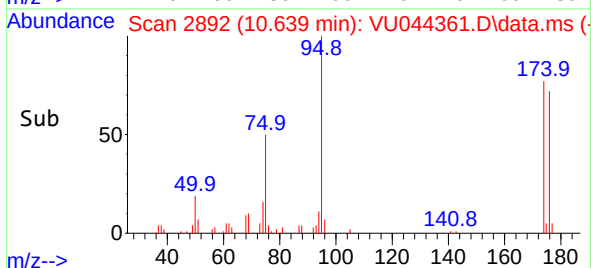
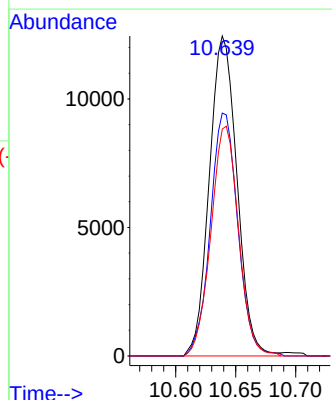
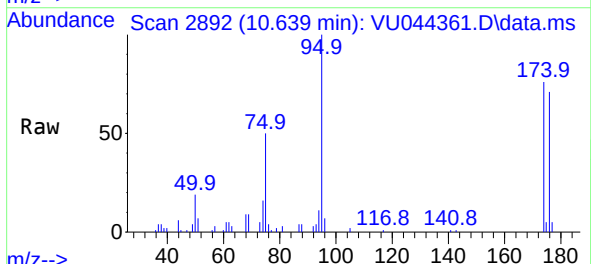
Tgt Ion: 95 Resp: 19926

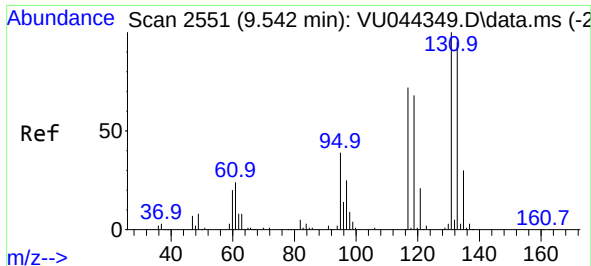
Ion Ratio Lower Upper

95 100

174 75.4 62.2 93.2

176 71.8 60.3 90.5

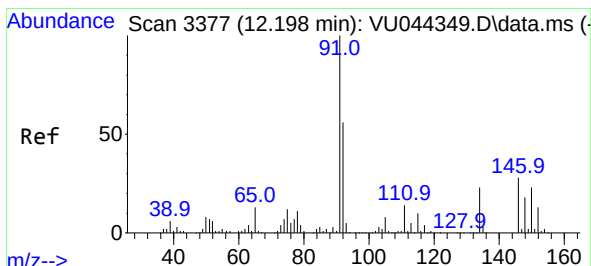
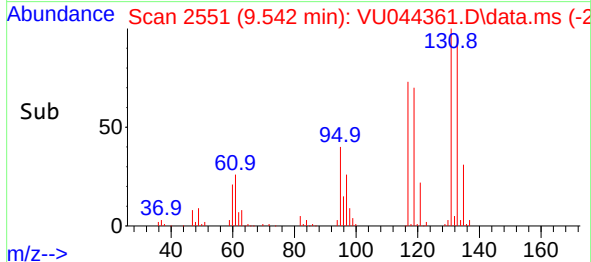
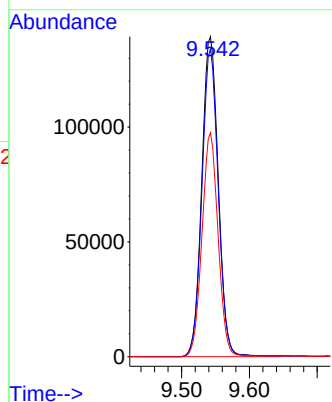
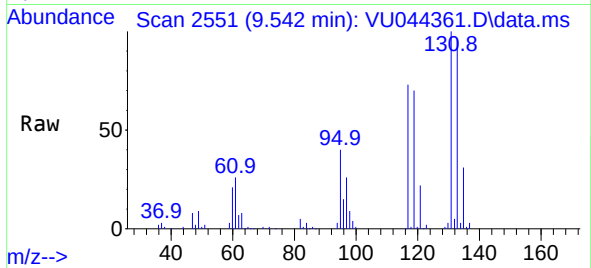




#60
1,1,1,2-Tetrachloroethane
Concen: 17.510 ug/l
RT: 9.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

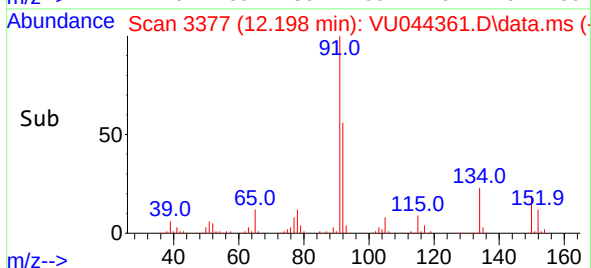
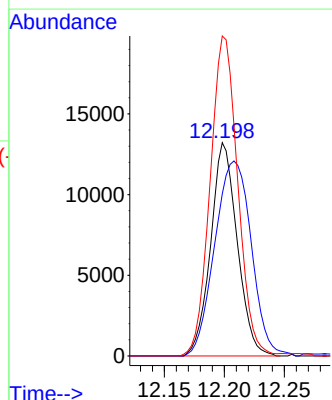
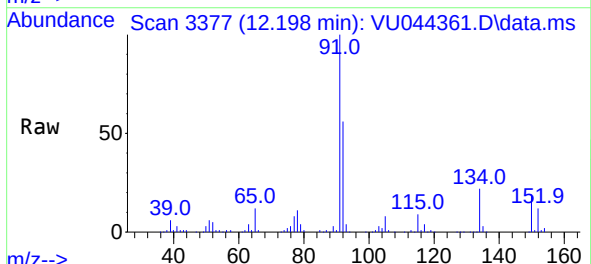
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

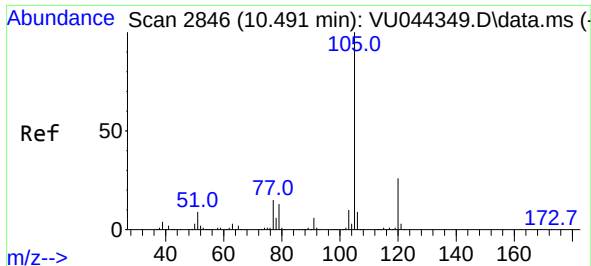
Tgt Ion:131 Resp: 235559
Ion Ratio Lower Upper
131 100
133 94.8 77.3 115.9
119 68.1 52.8 79.2



#68
1,2-Dichlorobenzene-d4
Concen: 1.008 ug/l
RT: 12.198 min Scan# 3377
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion:152 Resp: 20362
Ion Ratio Lower Upper
152 100
115 125.9 0.0 257.0
150 155.4 0.0 630.2

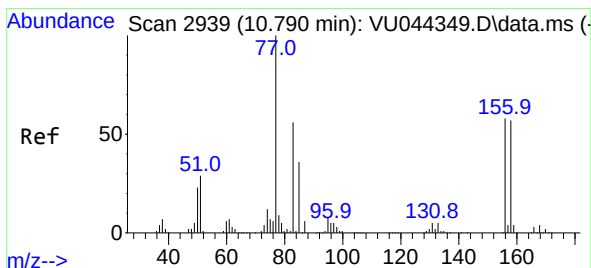
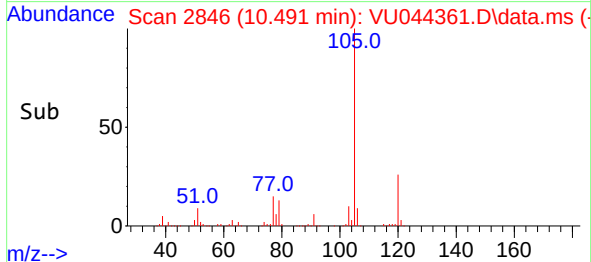
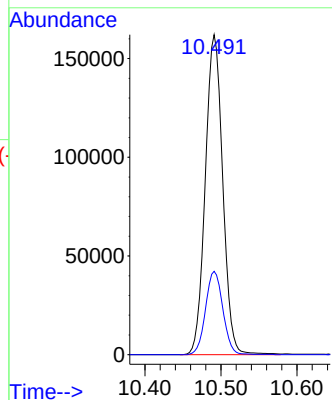
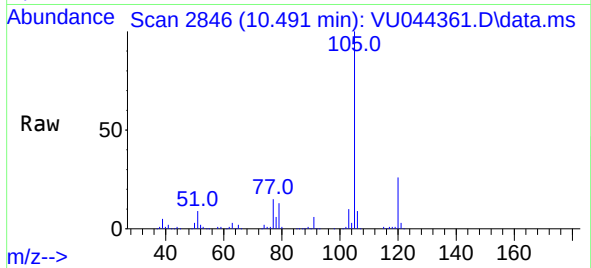




#69
Isopropylbenzene
Concen: 3.633 ug/l
RT: 10.491 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

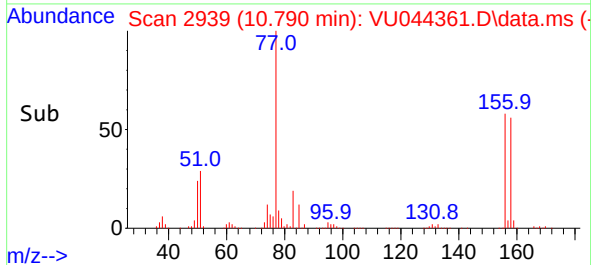
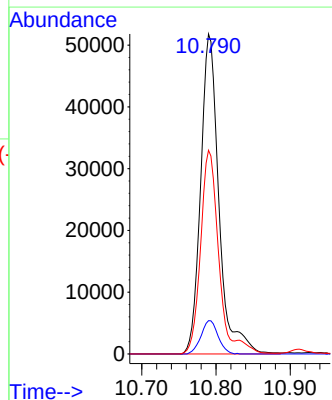
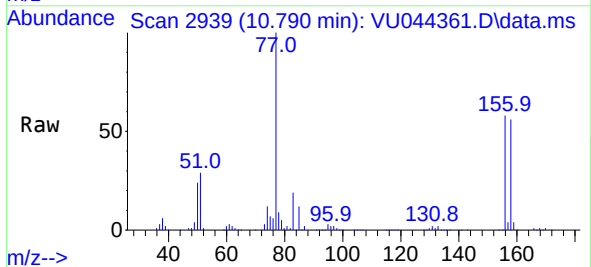
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

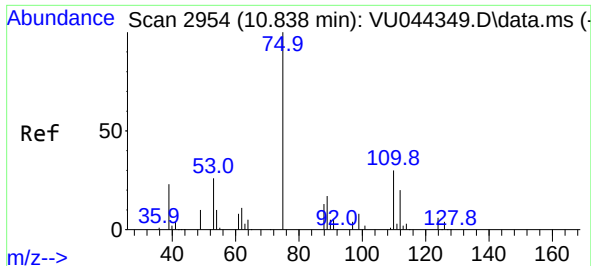
Tgt Ion:105 Resp: 258616
Ion Ratio Lower Upper
105 100
120 25.9 13.1 39.3



#70
1,1,2,2-Tetrachloroethane
Concen: 5.714 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 83 Resp: 88548
Ion Ratio Lower Upper
83 100
131 9.8 8.2 12.2
85 60.5 50.8 76.2



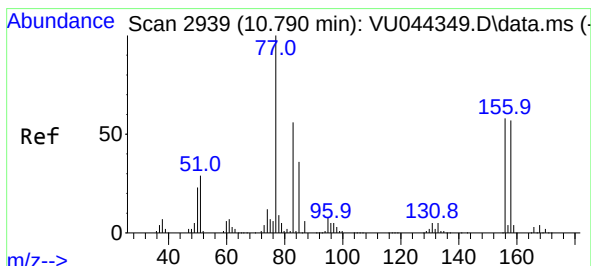
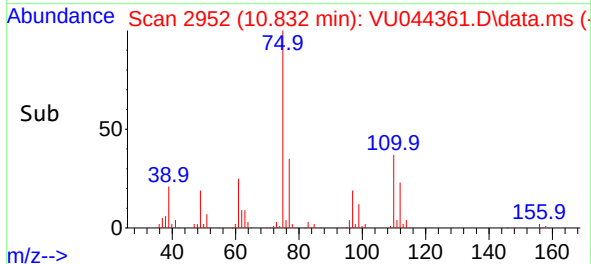
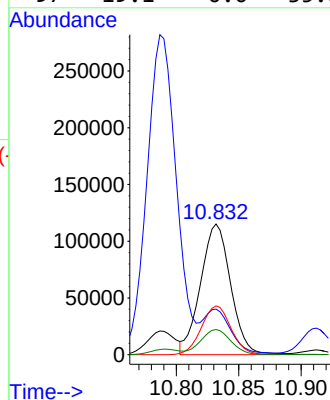
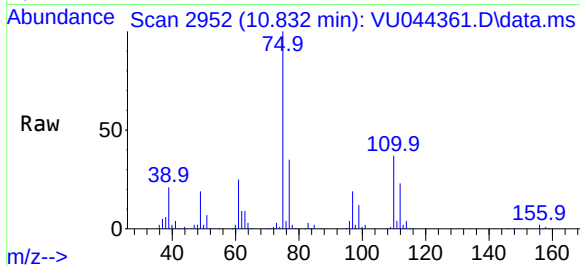


#71
1,2,3-Trichloropropane
Concen: 14.549 ug/l
RT: 10.832 min Scan# 2954
Delta R.T. -0.006 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

Tgt Ion: 75 Resp: 193272

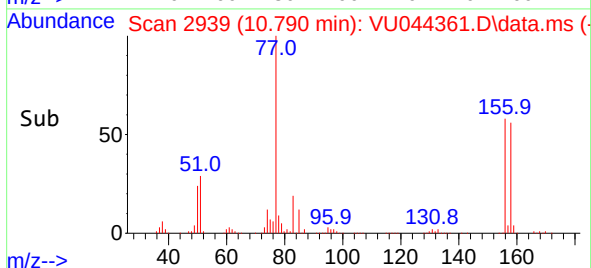
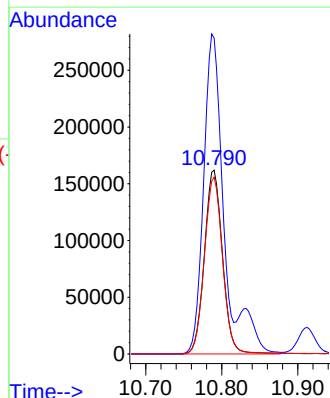
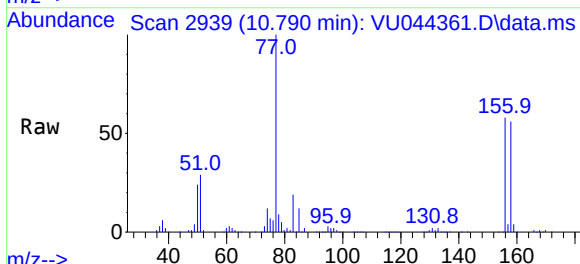
Ion	Ratio	Lower	Upper
75	100		
77	30.3	0.0	111.4
110	37.1	0.0	74.6
97	19.1	0.0	35.8

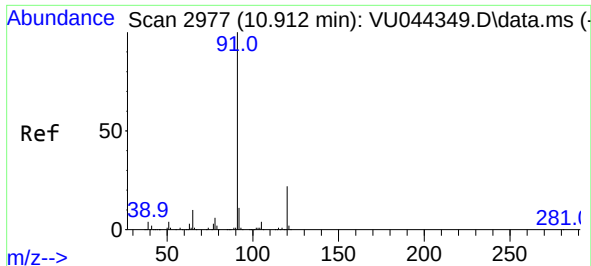


#72
Bromobenzene
Concen: 16.279 ug/l
RT: 10.790 min Scan# 2939
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 156 Resp: 268271

Ion	Ratio	Lower	Upper
156	100		
77	172.8	0.0	324.2
158	96.9	0.0	192.4

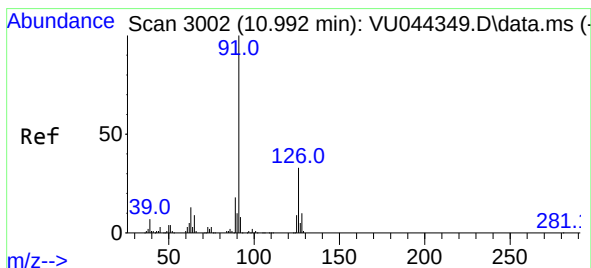
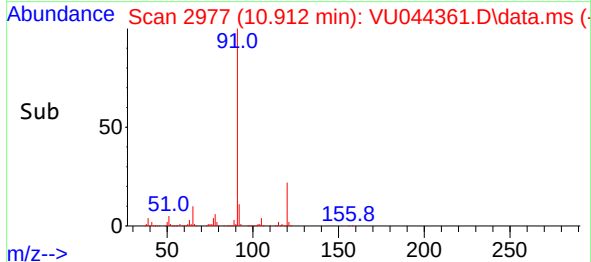
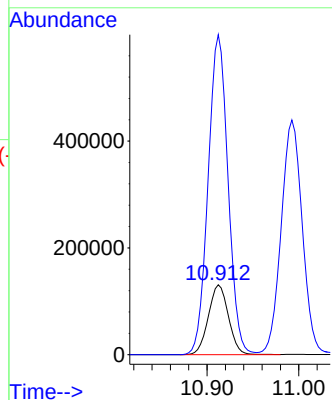
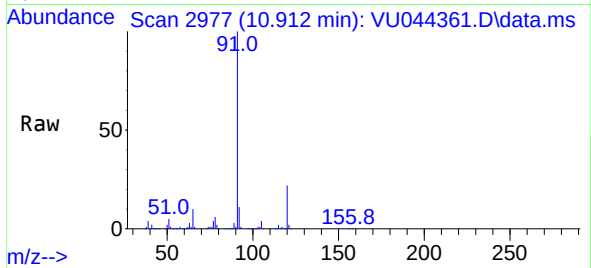




#73
n-propylbenzene
Concen: 10.372 ug/l
RT: 10.912 min Scan# 2977
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

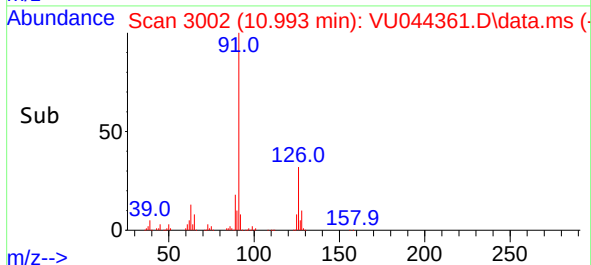
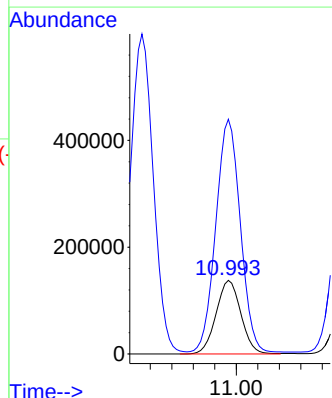
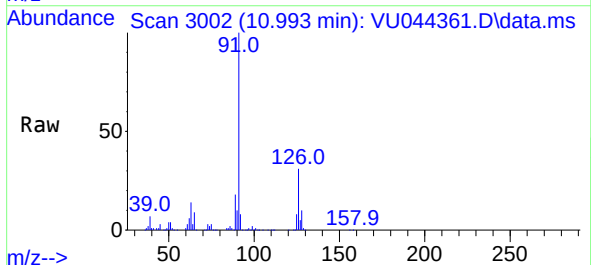
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

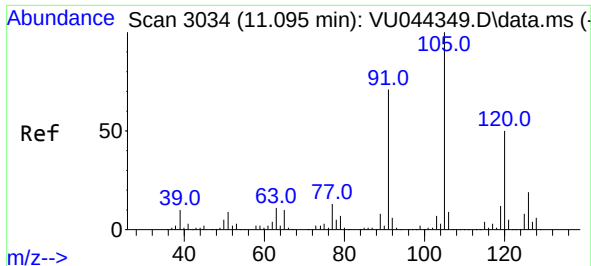
Tgt Ion:120 Resp: 198985
Ion Ratio Lower Upper
120 100
91 454.5 346.6 519.8



#74
2-Chlorotoluene
Concen: 13.380 ug/l
RT: 10.993 min Scan# 3002
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion:126 Resp: 220206
Ion Ratio Lower Upper
126 100
91 320.1 0.0 593.2

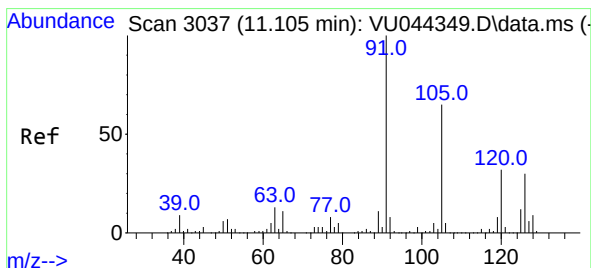
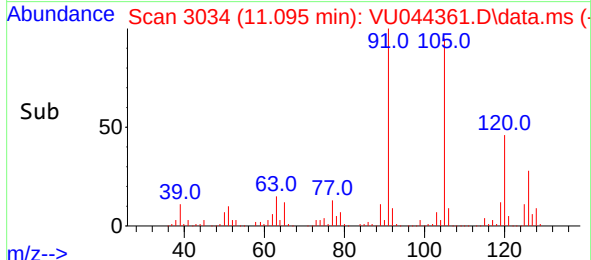
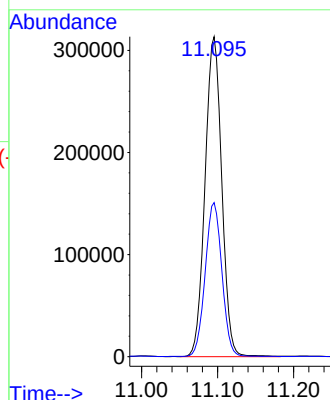
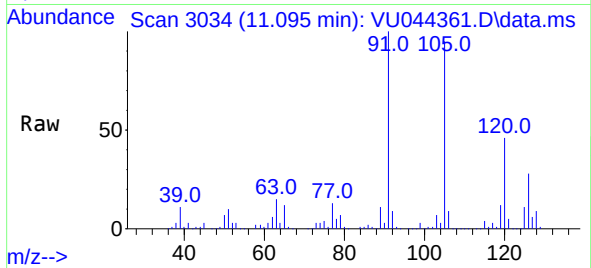




#75
1,3,5-Trimethylbenzene
Concen: 7.964 ug/l
RT: 11.095 min Scan# 3034
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

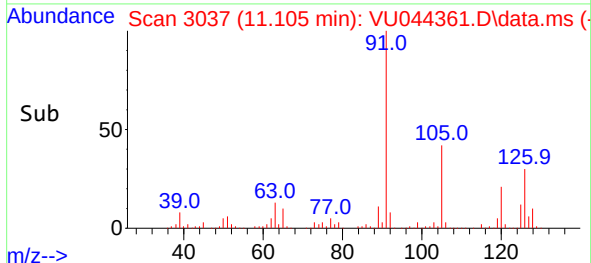
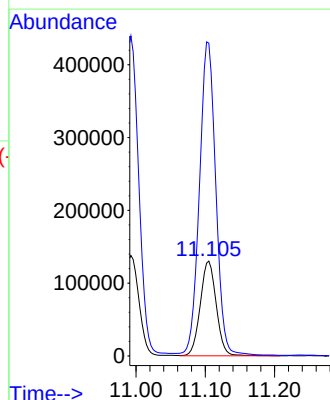
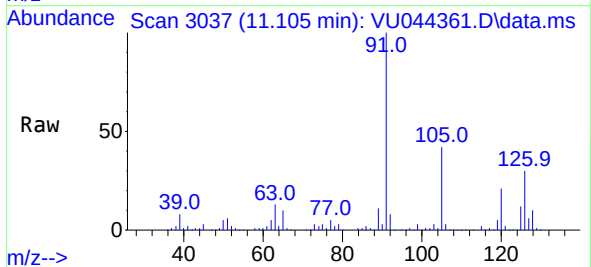
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

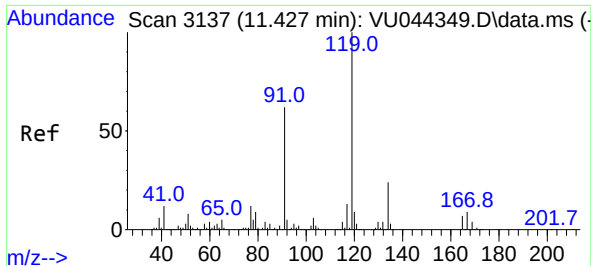
Tgt Ion:105 Resp: 479103
Ion Ratio Lower Upper
105 100
120 47.9 38.6 58.0



#76
4-Chlorotoluene
Concen: 12.163 ug/l
RT: 11.105 min Scan# 3037
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion:126 Resp: 207946
Ion Ratio Lower Upper
126 100
91 340.6 0.0 692.4

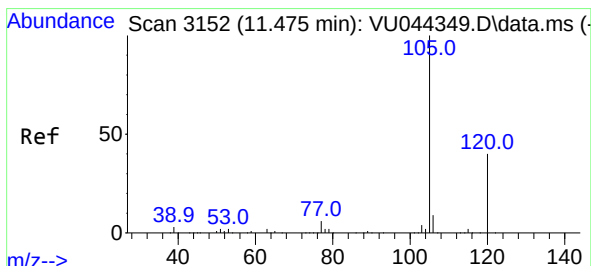
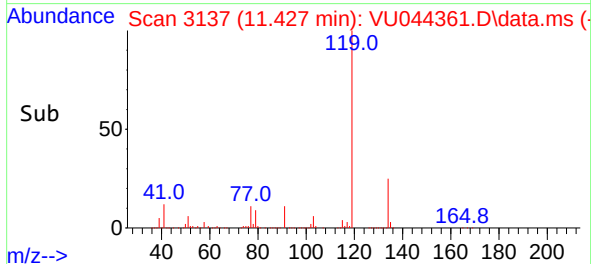
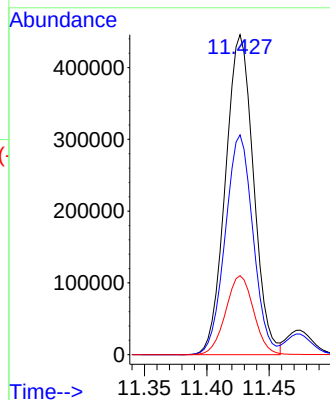
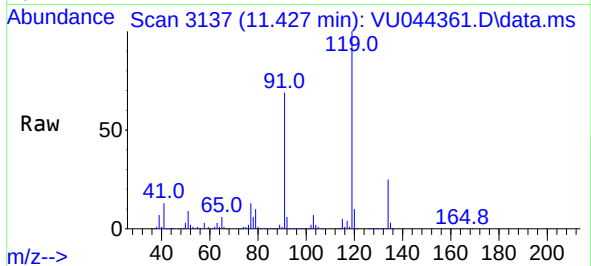




#77
tert-Butylbenzene
Concen: 11.877 ug/l
RT: 11.427 min Scan# 3137
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

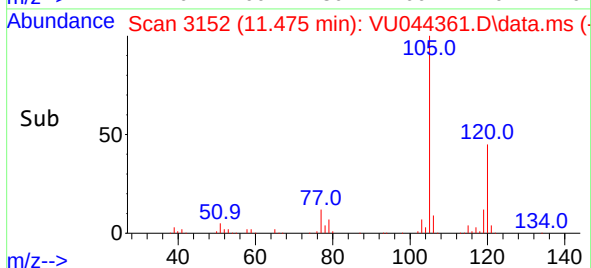
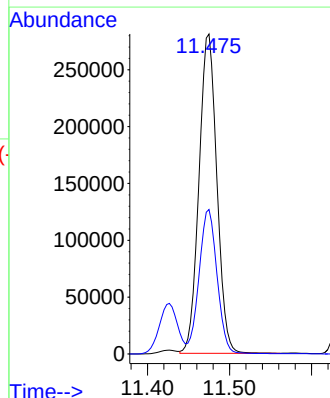
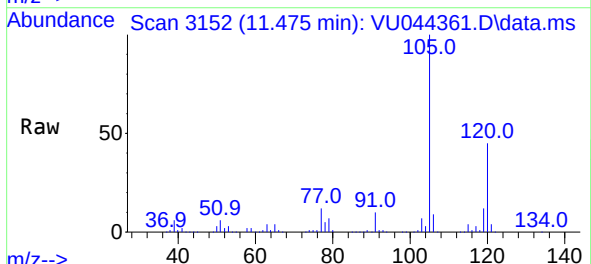
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

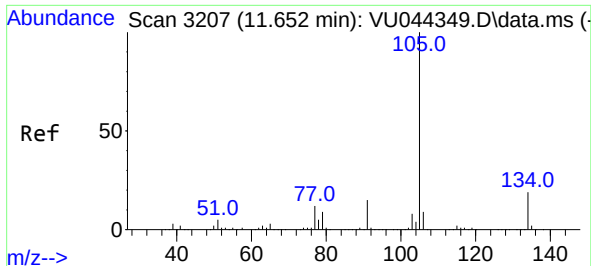
Tgt Ion:119 Resp: 700330
Ion Ratio Lower Upper
119 100
91 67.8 29.9 89.7
134 24.6 18.7 28.1



#78
1,2,4-Trimethylbenzene
Concen: 6.955 ug/l
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion:105 Resp: 424714
Ion Ratio Lower Upper
105 100
120 45.4 22.7 68.0

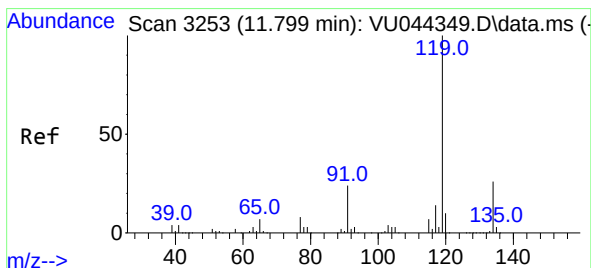
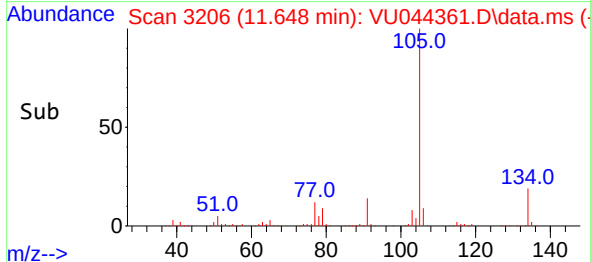
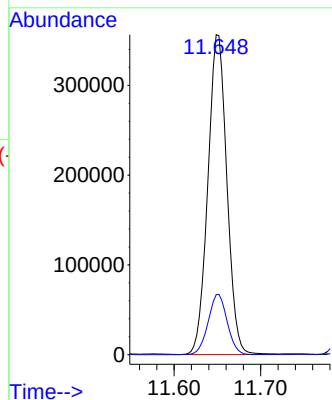
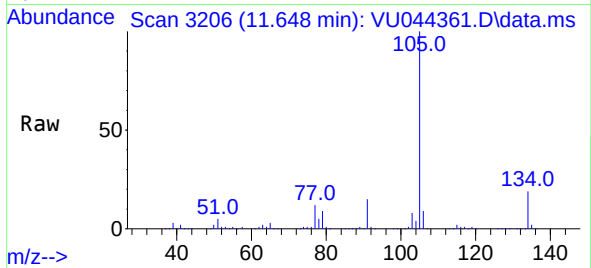




#79
 sec-Butylbenzene
 Concen: 6.753 ug/l
 RT: 11.648 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VU044361.D
 Acq: 19 Jul 2021 14:28

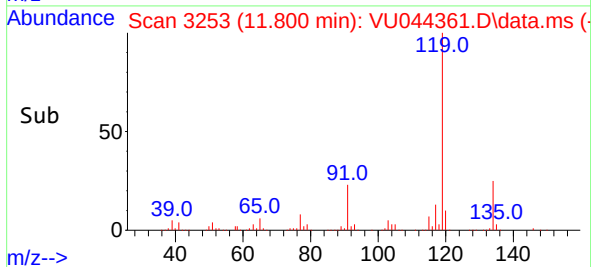
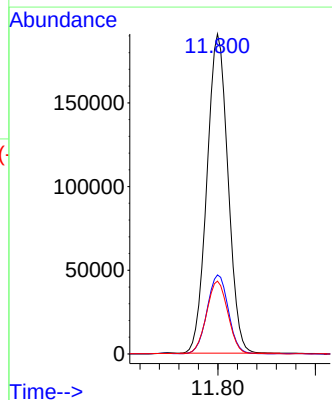
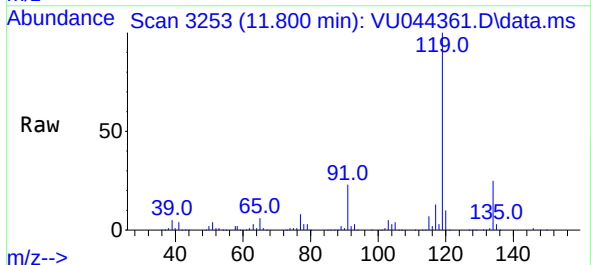
Instrument :
 MSVOA_U
 ClientSampleId :
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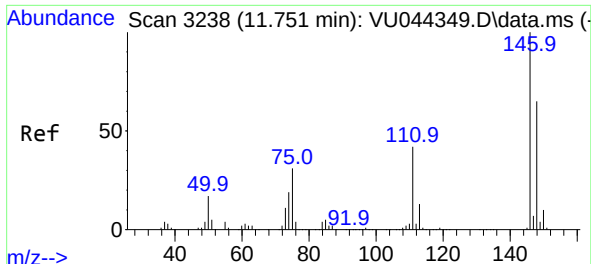
Tgt Ion:105 Resp: 542327
 Ion Ratio Lower Upper
 105 100
 134 19.0 16.1 24.1



#81
 p-Isopropyltoluene
 Concen: 4.296 ug/l
 RT: 11.800 min Scan# 3253
 Delta R.T. 0.000 min
 Lab File: VU044361.D
 Acq: 19 Jul 2021 14:28

Tgt Ion:119 Resp: 285654
 Ion Ratio Lower Upper
 119 100
 134 24.9 21.0 31.4
 91 23.0 19.4 29.2

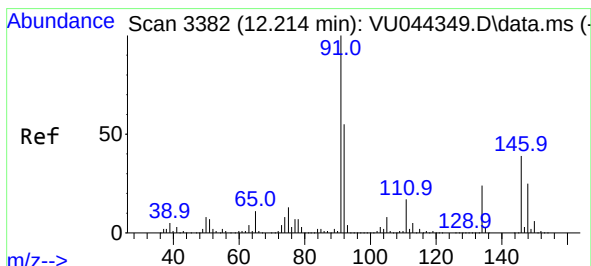
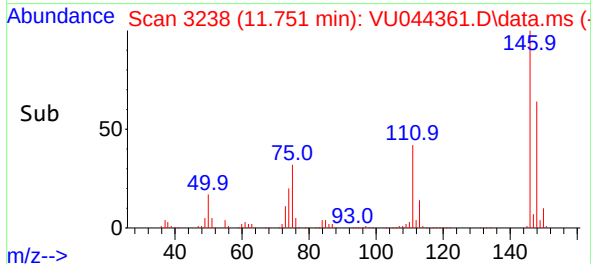
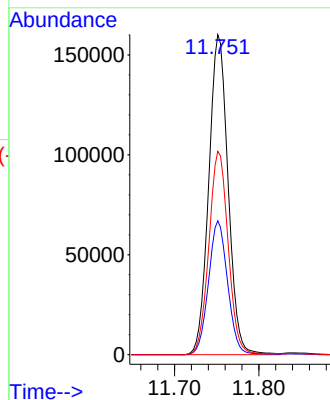
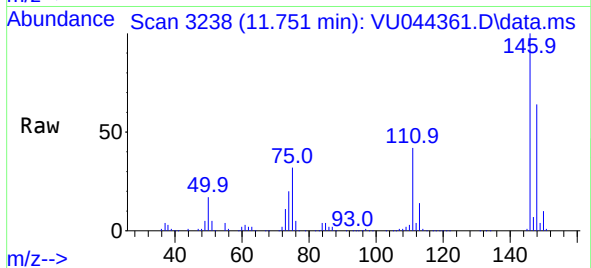




#82
1,3-Dichlorobenzene
Concen: 7.798 ug/l
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

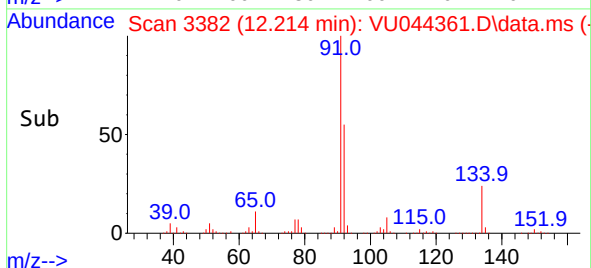
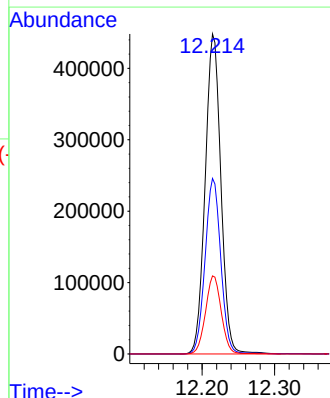
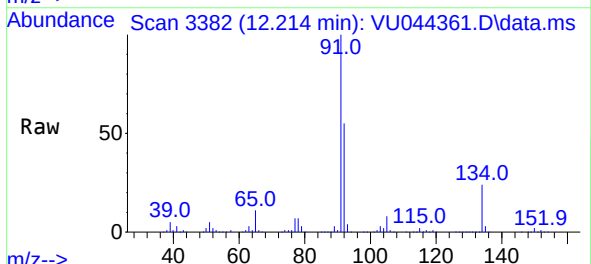
Instrument :
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ClientSampleId :
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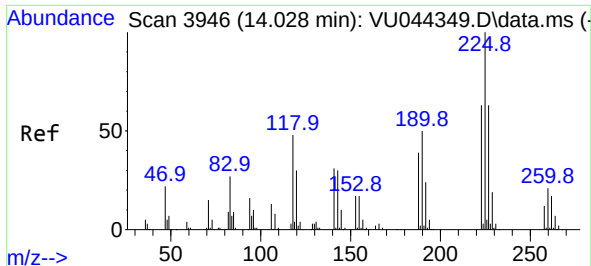
Tgt Ion:146 Resp: 255251
Ion Ratio Lower Upper
146 100
111 41.6 33.3 49.9
148 63.6 50.9 76.3



#84
n-Butylbenzene
Concen: 10.391 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

Tgt Ion: 91 Resp: 676525
Ion Ratio Lower Upper
91 100
92 54.8 43.3 64.9
134 24.5 20.2 30.4

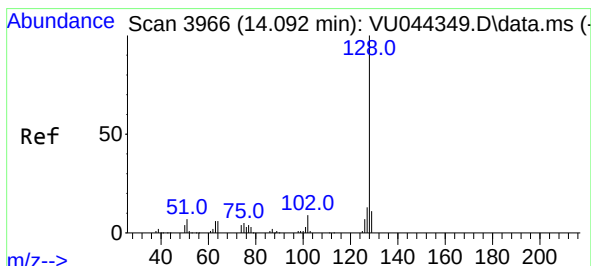
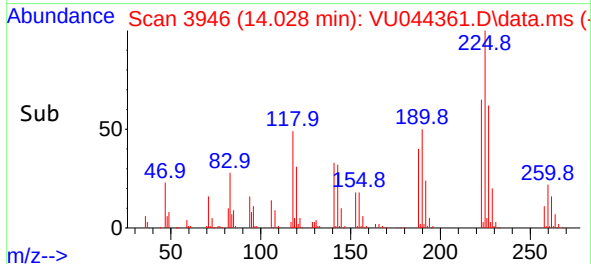
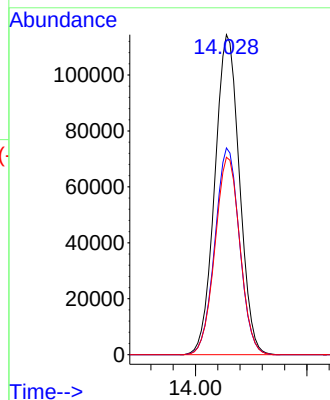
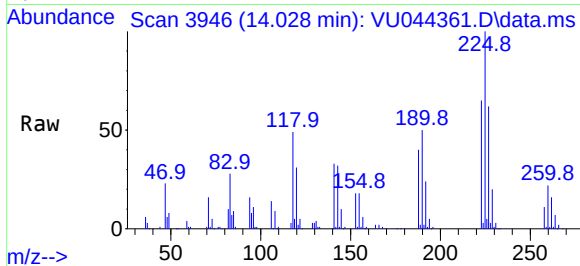




#88
Hexachlorobutadiene
Concen: 16.176 ug/l
RT: 14.028 min Scan# 3946
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

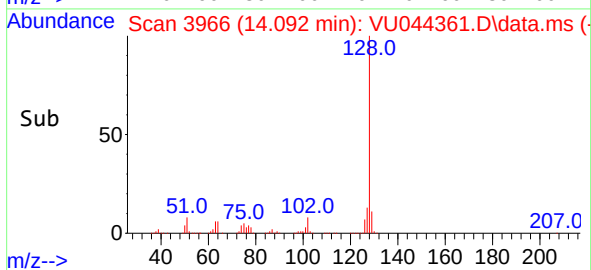
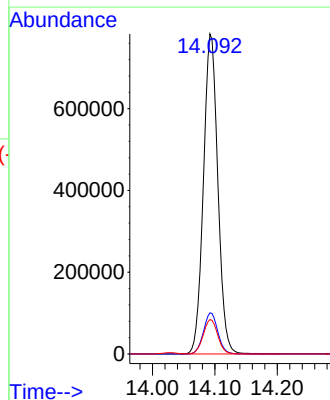
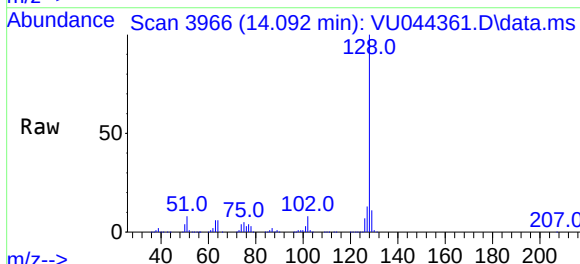
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WS

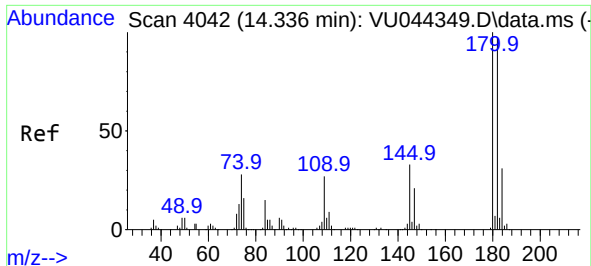
Tgt Ion:225 Resp: 175604
Ion Ratio Lower Upper
225 100
223 64.5 50.9 76.3
227 62.6 50.8 76.2



#89
Naphthalene
Concen: 28.028 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.000 min
Lab File: VU044361.D
Acq: 19 Jul 2021 14:28

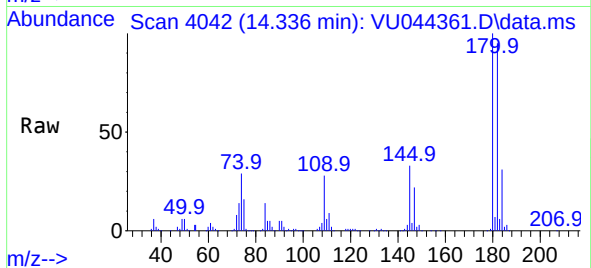
Tgt Ion:128 Resp: 1257552
Ion Ratio Lower Upper
128 100
127 12.8 10.4 15.6
129 10.9 8.6 13.0





#90
 1,2,3-Trichlorobenzene
 Concen: 20.974 ug/l
 RT: 14.336 min Scan# 4042
 Delta R.T. 0.000 min
 Lab File: VU044361.D
 Acq: 19 Jul 2021 14:28

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WS



Tgt Ion:	180	Resp:	427201
Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.1	115.7
145	33.6	27.0	40.4

