

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU123021\
 Data File : VU046650.D
 Acq On : 30 Dec 2021 15:48
 Operator : SY/MD
 Sample : M5221-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 31 07:25:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U123021DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Dec 30 12:44:59 2021
 Response via : Initial Calibration

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

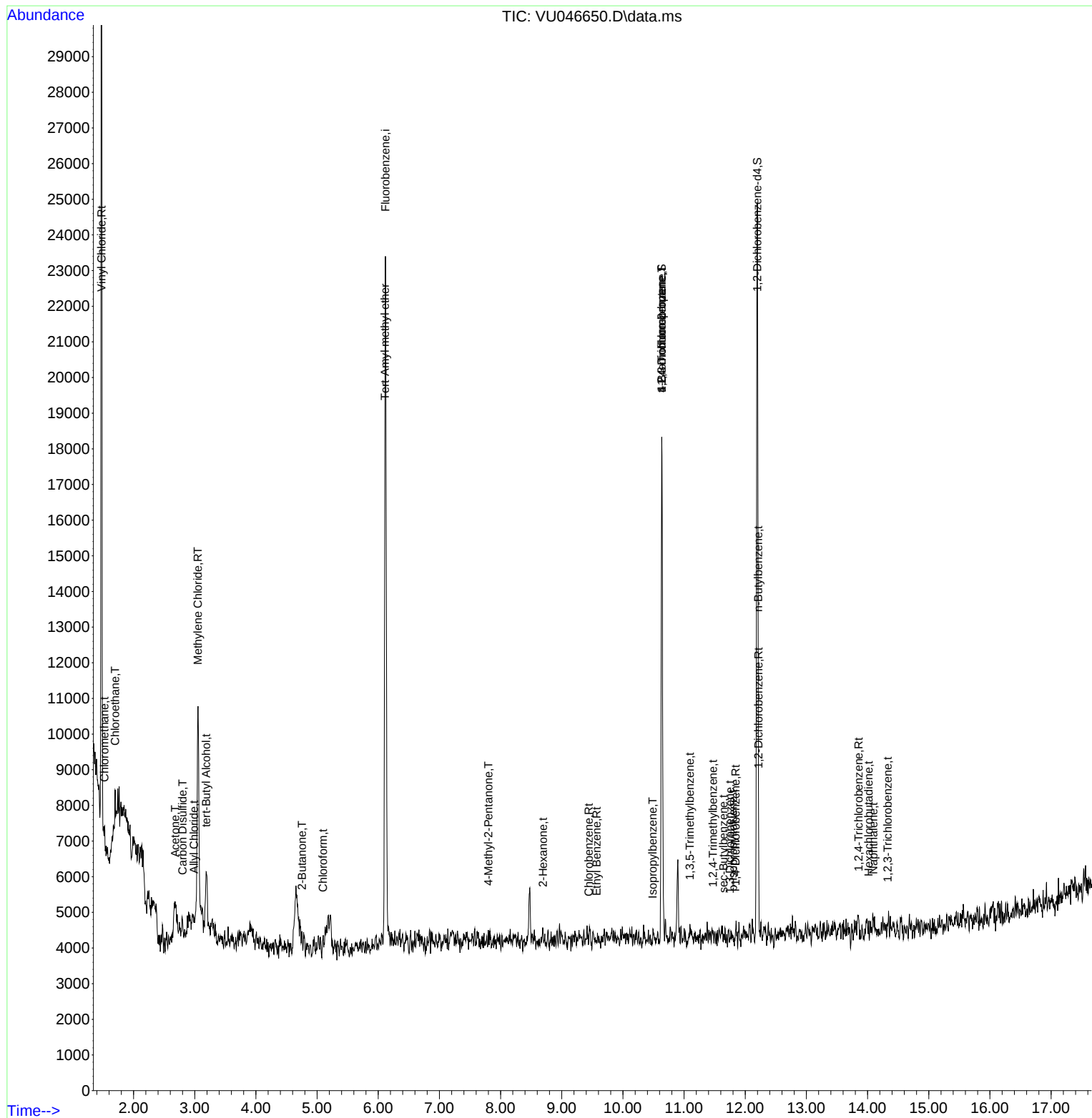
Internal Standards						
1) Fluorobenzene	6.118	96	18273	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.635	95	5089	0.783	ug/l	0.00
Spiked Amount 1.000			Recovery	=	78.000%	
68) 1,2-Dichlorobenzene-d4	12.198	152	6011	0.854	ug/l	0.00
Spiked Amount 1.000			Recovery	=	85.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.523	50	256	0.041	ug/l #	60
4) Vinyl Chloride	1.475	62	301	0.045	ug/l #	42
6) Chloroethane	1.697	64	1457	0.369	ug/l #	42
11) Allyl Chloride	2.989	41	20	0.003	ug/l #	10
13) Acetone	2.681	43	2260	1.931	ug/l	96
14) Carbon Disulfide	2.800	76	468	0.030	ug/l #	75
15) Methylene Chloride	3.050	84	3069	0.378	ug/l	90
18) 2-Butanone	4.755	43	87	0.050	ug/l	77
24) tert-Butyl Alcohol	3.186	59	958	4.982	ug/l #	77
27) Chloroform	5.095	83	216	0.020	ug/l	88
33) Tert-Amyl methyl ether	6.108	73	155	0.014	ug/l #	58
45) 4-Methyl-2-Pentanone	7.799	43	42	0.012	ug/l #	41
46) t-1,4-Dichloro-2-butene	10.635	75	2572	1.393	ug/l #	21
54) 2-Hexanone	8.693	43	60	0.024	ug/l #	31
59) Chlorobenzene	9.443	112	137	0.011	ug/l #	43
63) Ethyl Benzene	9.571	91	114	0.005	ug/l #	44
69) Isopropylbenzene	10.484	105	91	0.004	ug/l #	49
71) 1,2,3-Trichloropropane	10.635	75	2572	0.675	ug/l #	36
75) 1,3,5-Trimethylbenzene	11.095	105	68	0.480	ug/l #	29
78) 1,2,4-Trimethylbenzene	11.471	105	100	0.480	ug/l #	32
79) sec-Butylbenzene	11.642	105	103	0.004	ug/l #	58
81) p-Isopropyltoluene	11.799	119	69	0.520	ug/l #	50
82) 1,3-Dichlorobenzene	11.751	146	120	0.011	ug/l #	24
83) 1,4-Dichlorobenzene	11.841	146	165	0.014	ug/l #	24
84) n-Butylbenzene	12.211	91	267	0.014	ug/l #	33
85) 1,2-Dichlorobenzene	12.217	146	129	0.012	ug/l #	48
87) 1,2,4-Trichlorobenzene	13.851	180	215	0.032	ug/l #	82
88) Hexachlorobutadiene	14.018	225	47	0.011	ug/l #	19
89) Naphthalene	14.095	128	395	0.103	ug/l #	69
90) 1,2,3-Trichlorobenzene	14.330	180	195	0.030	ug/l #	67

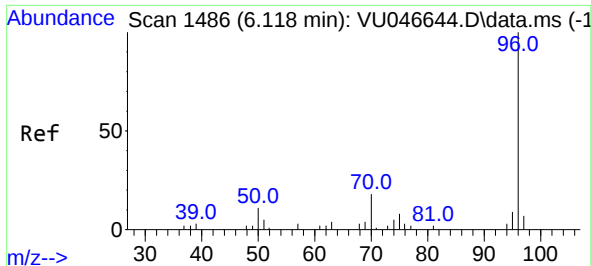
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU123021\
Data File : VU046650.D
Acq On : 30 Dec 2021 15:48
Operator : SY/MD
Sample : M5221-03
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

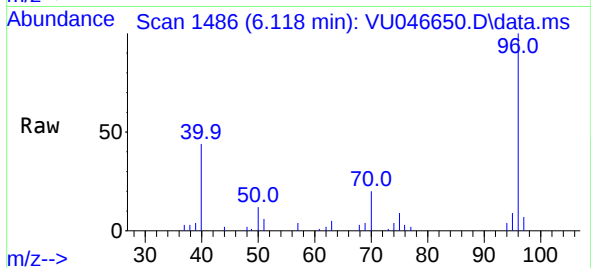
Quant Time: Dec 31 07:25:52 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U123021DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Dec 30 12:44:59 2021
Response via : Initial Calibration





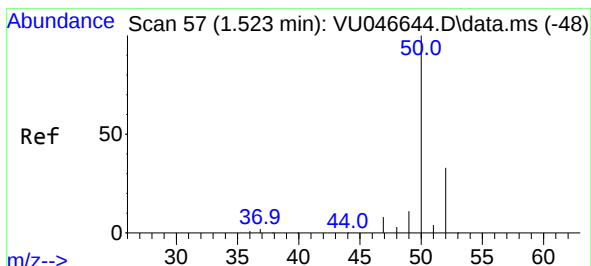
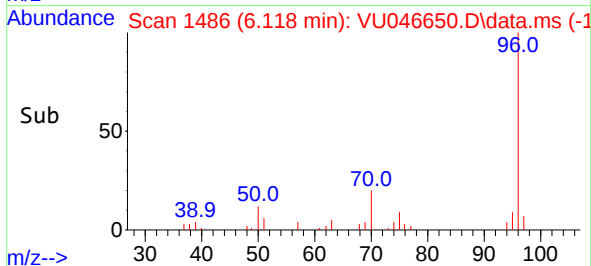
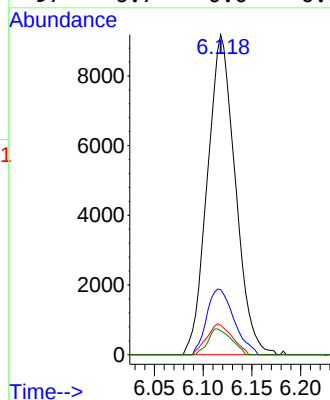
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 14
Delta R.T. -0.000 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 18273

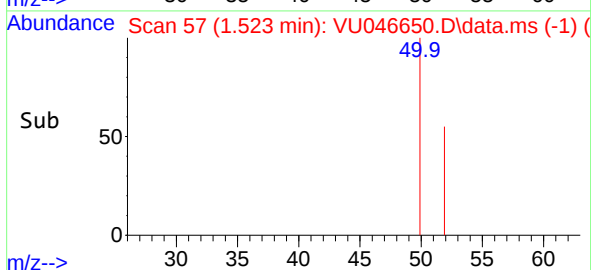
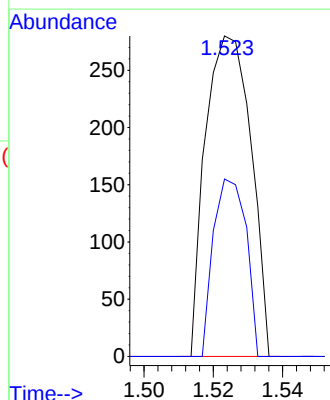
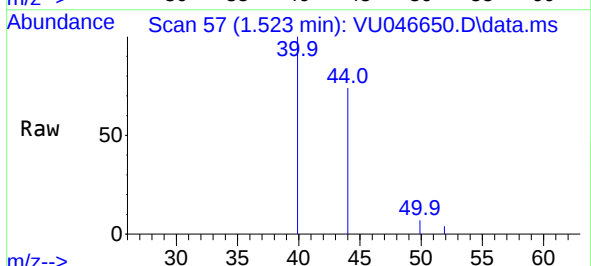
Ion	Ratio	Lower	Upper
96	100		
70	20.0	16.8	25.2
95	8.7	7.3	10.9
97	6.7	0.0	0.0

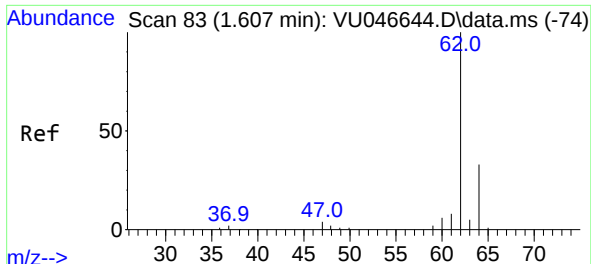


#3
Chloromethane
Concen: 0.041 ug/l
RT: 1.523 min Scan# 57
Delta R.T. 0.000 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion: 50 Resp: 256

Ion	Ratio	Lower	Upper
50	100		
52	55.4	26.2	39.4

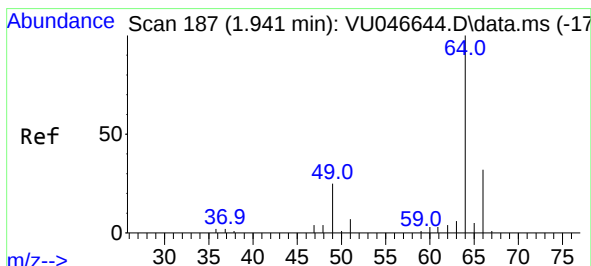
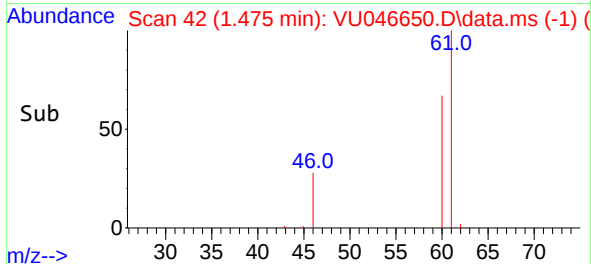
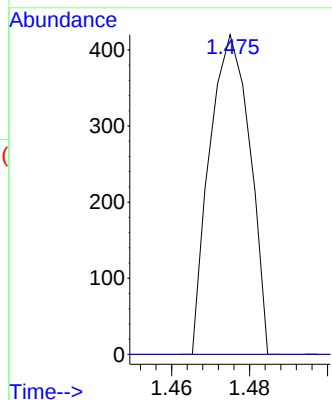
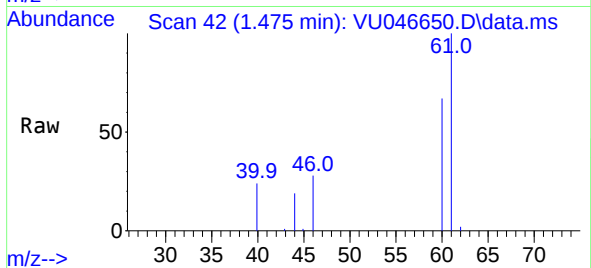




#4
 Vinyl Chloride
 Concen: 0.045 ug/l
 RT: 1.475 min Scan# 41
 Delta R.T. -0.132 min
 Lab File: VU046650.D
 Acq: 30 Dec 2021 15:48

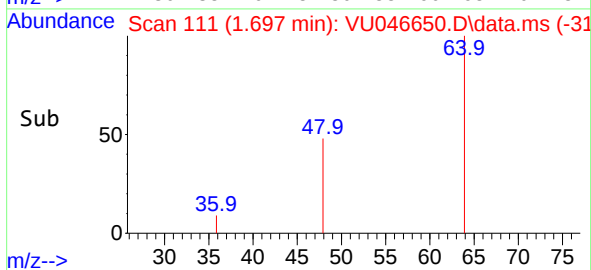
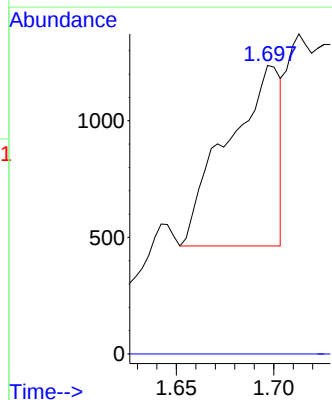
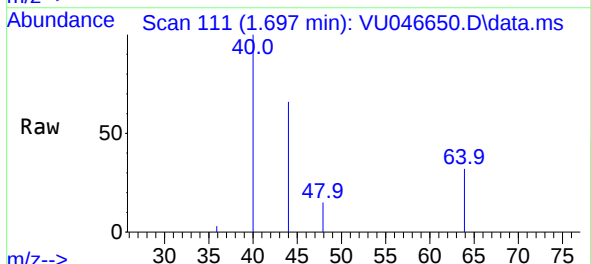
Instrument :
 MSVOA_U
 ClientSampleId :

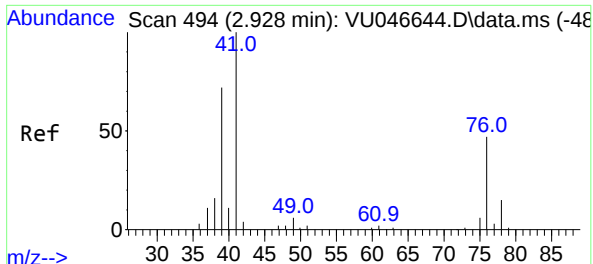
Tgt Ion: 62 Resp: 301
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.0 39.0#



#6
 Chloroethane
 Concen: 0.369 ug/l
 RT: 1.697 min Scan# 111
 Delta R.T. -0.244 min
 Lab File: VU046650.D
 Acq: 30 Dec 2021 15:48

Tgt Ion: 64 Resp: 1457
 Ion Ratio Lower Upper
 64 100
 66 0.0 25.8 38.8#





#11

Allyl Chloride

Concen: 0.003 ug/l

RT: 2.989 min Scan# 51

Delta R.T. 0.061 min

Lab File: VU046650.D

Acq: 30 Dec 2021 15:48

Instrument :

MSVOA_U

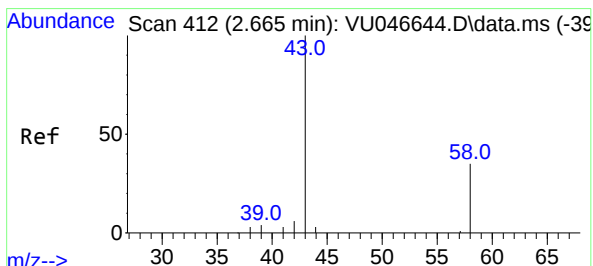
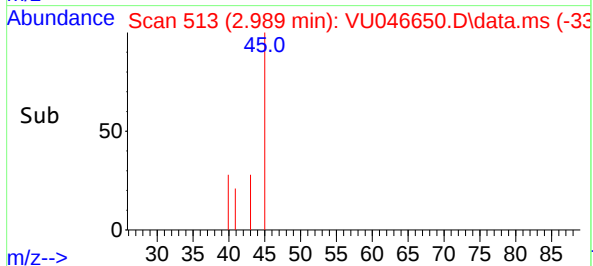
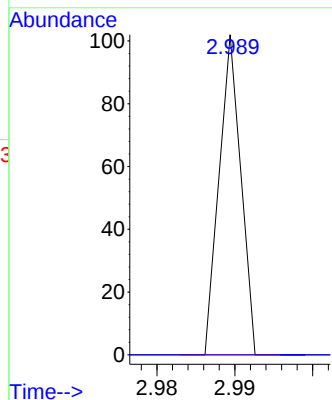
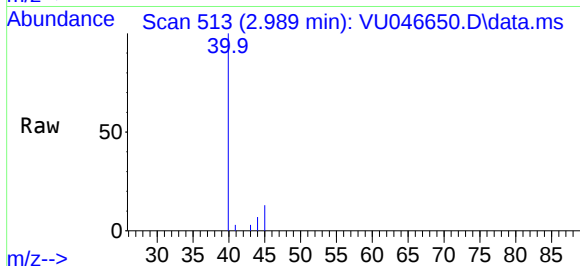
ClientSampleId :

Tgt Ion: 41 Resp: 20

Ion Ratio Lower Upper

41 100

39 0.0 62.4 93.6#



#13

Acetone

Concen: 1.931 ug/l

RT: 2.681 min Scan# 417

Delta R.T. 0.016 min

Lab File: VU046650.D

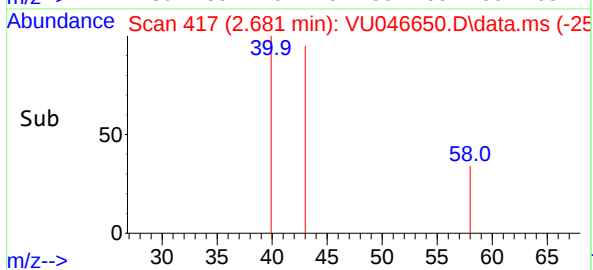
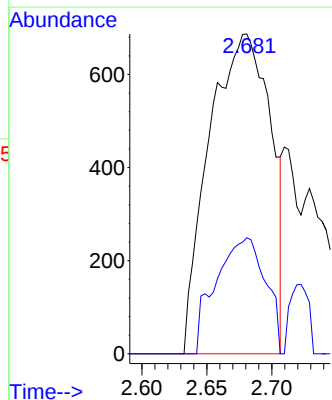
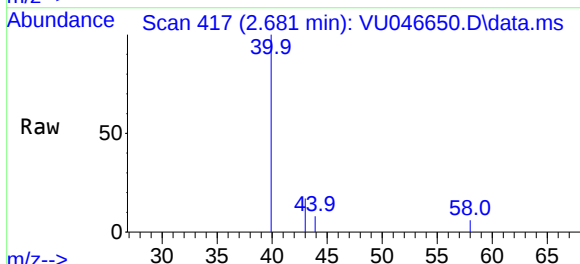
Acq: 30 Dec 2021 15:48

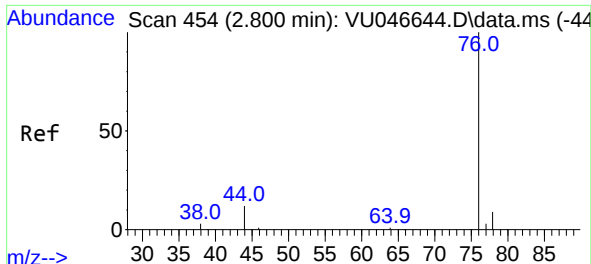
Tgt Ion: 43 Resp: 2260

Ion Ratio Lower Upper

43 100

58 36.2 27.1 40.7

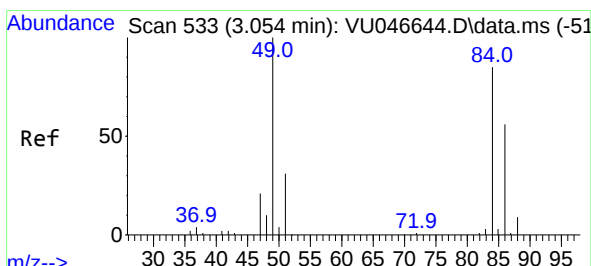
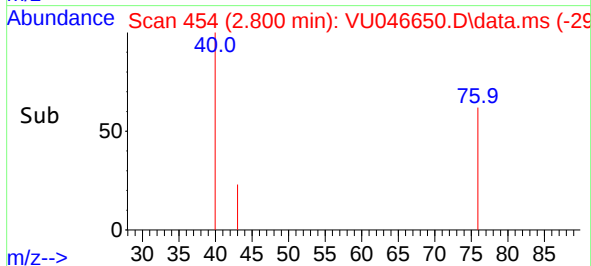
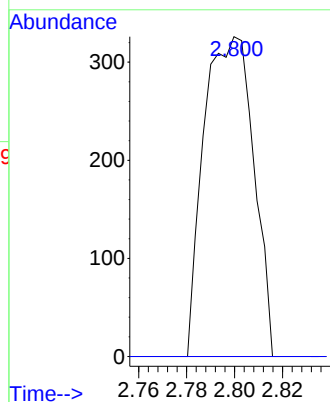
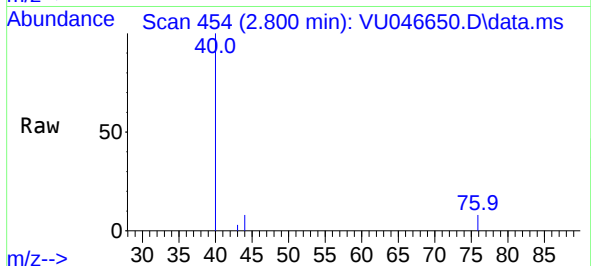




#14
Carbon Disulfide
Concen: 0.030 ug/l
RT: 2.800 min Scan# 414
Delta R.T. -0.000 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

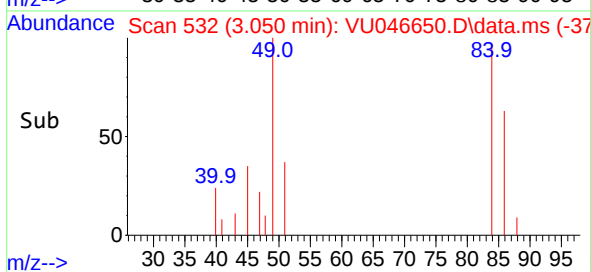
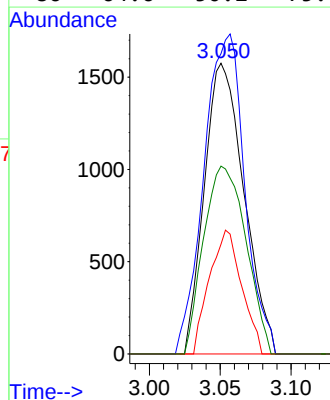
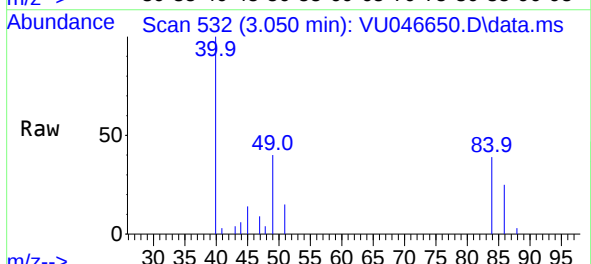
Instrument :
MSVOA_U
ClientSampleId :

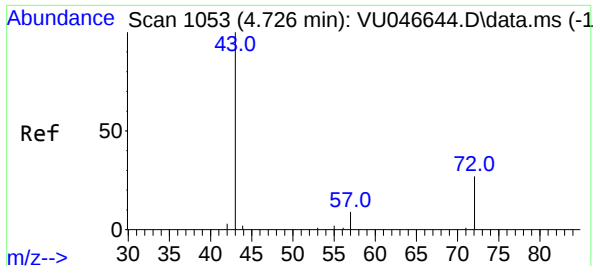
Tgt Ion: 76 Resp: 468
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#15
Methylene Chloride
Concen: 0.378 ug/l
RT: 3.050 min Scan# 532
Delta R.T. -0.004 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion: 84 Resp: 3069
Ion Ratio Lower Upper
84 100
49 103.3 97.2 145.8
51 37.8 0.0 73.4
86 64.6 50.2 75.4





#18

2-Butanone

Concen: 0.050 ug/l

RT: 4.755 min Scan# 1062

Delta R.T. 0.029 min

Lab File: VU046650.D

Acq: 30 Dec 2021 15:48

Instrument :

MSVOA_U

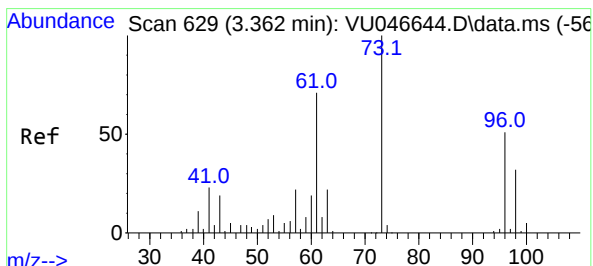
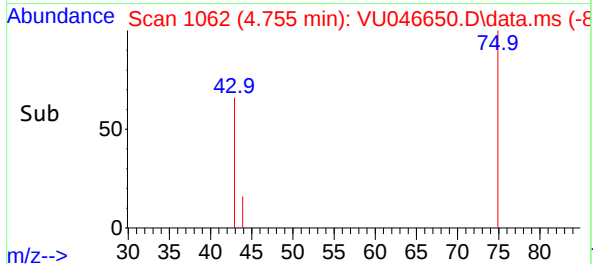
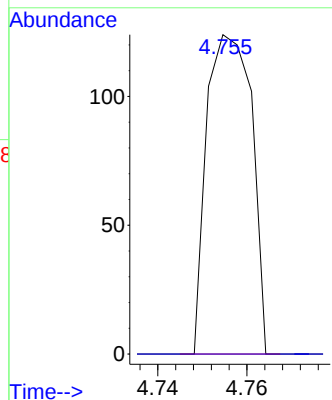
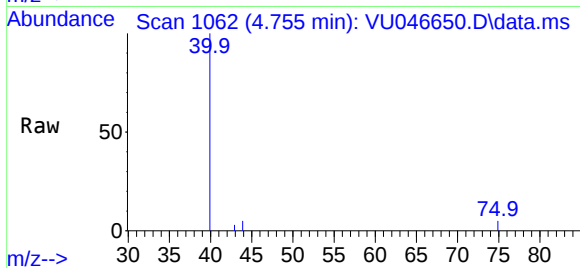
ClientSampleId :

Tgt Ion: 43 Resp: 87

Ion Ratio Lower Upper

43 100

57 0.0 0.0 16.6



#24

tert-Butyl Alcohol

Concen: 4.982 ug/l

RT: 3.186 min Scan# 574

Delta R.T. -0.176 min

Lab File: VU046650.D

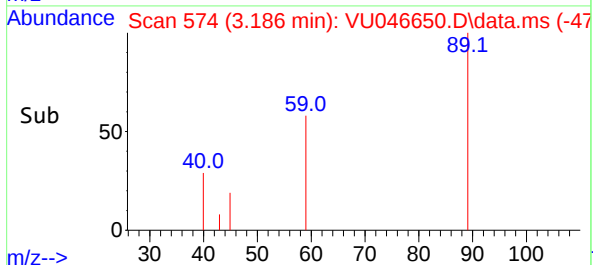
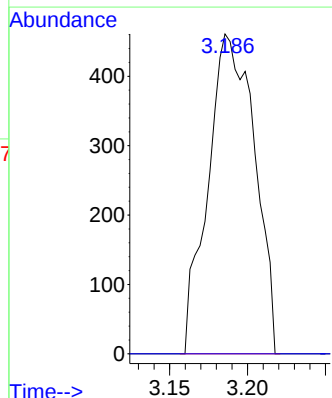
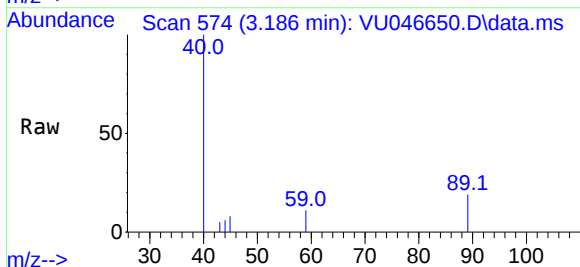
Acq: 30 Dec 2021 15:48

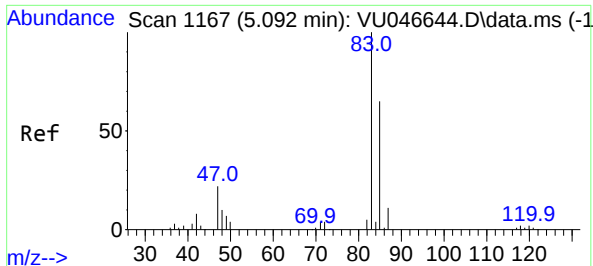
Tgt Ion: 59 Resp: 958

Ion Ratio Lower Upper

59 100

57 0.0 6.5 9.7#

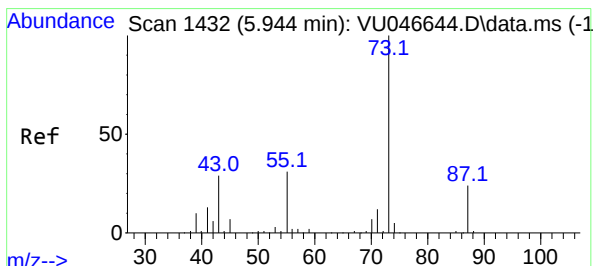
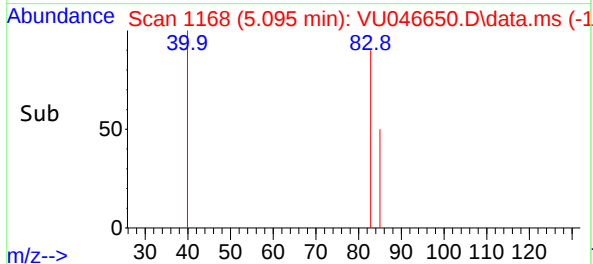
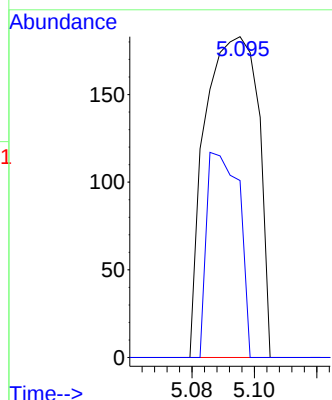
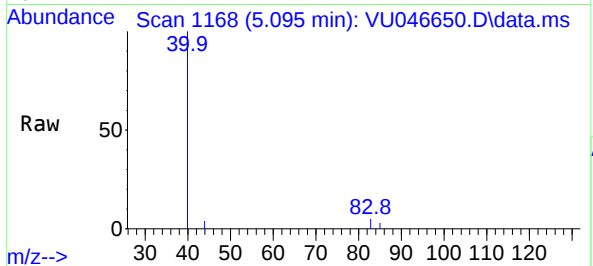




#27
Chloroform
Concen: 0.020 ug/l
RT: 5.095 min Scan# 1167
Delta R.T. 0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

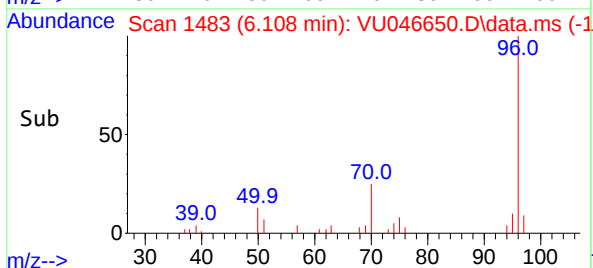
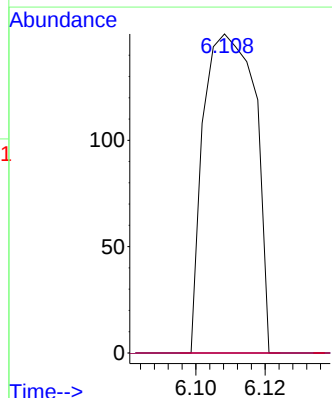
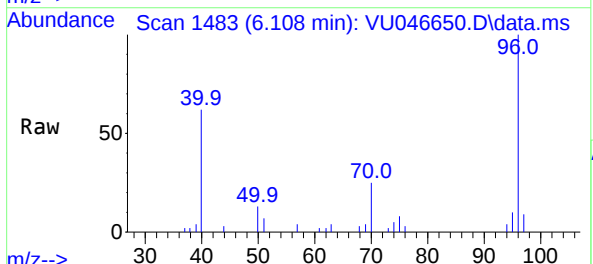
Instrument :
MSVOA_U
ClientSampleId :

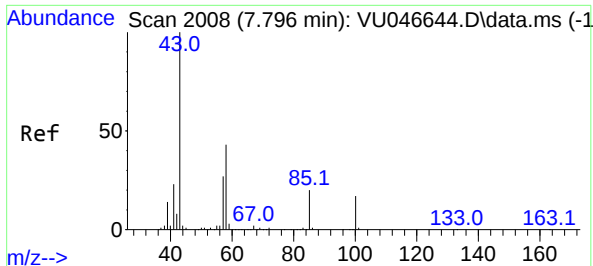
Tgt Ion: 83 Resp: 216
Ion Ratio Lower Upper
83 100
85 55.2 0.0 129.2



#33
Tert-Amyl methyl ether
Concen: 0.014 ug/l
RT: 6.108 min Scan# 1483
Delta R.T. 0.164 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion: 73 Resp: 155
Ion Ratio Lower Upper
73 100
87 0.0 18.6 28.0#
71 0.0 9.0 13.6#





#45

4-Methyl-2-Pentanone

Concen: 0.012 ug/l

RT: 7.799 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VU046650.D

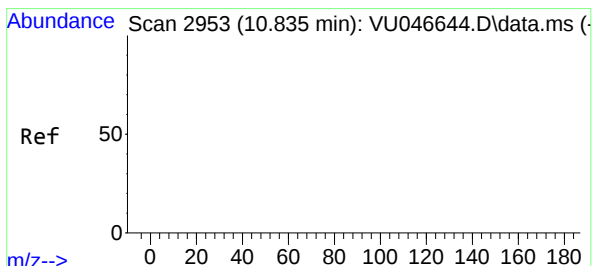
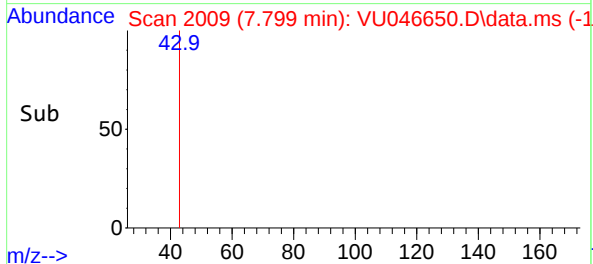
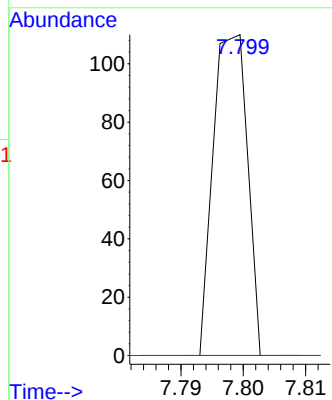
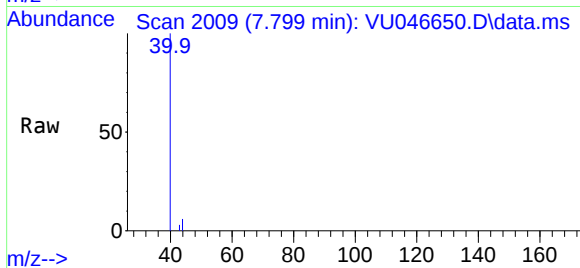
Acq: 30 Dec 2021 15:48

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	43	Resp:	42
Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.0	63.0#
85	0.0	14.8	22.2#



#46

t-1,4-Dichloro-2-butene

Concen: 1.393 ug/l

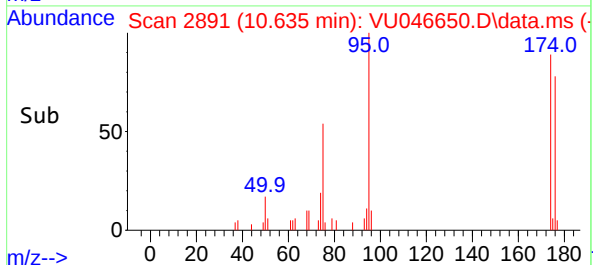
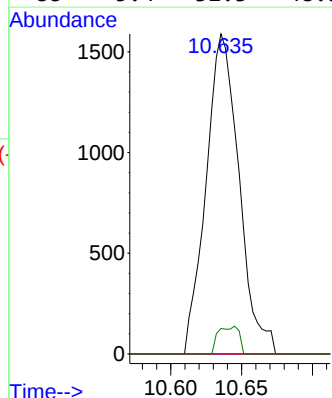
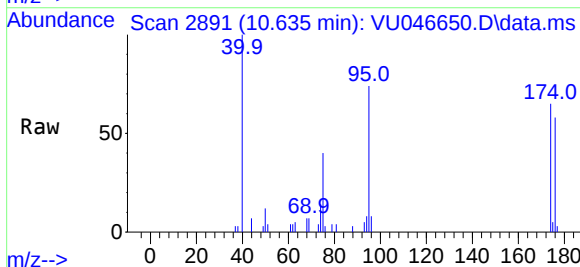
RT: 10.635 min Scan# 2891

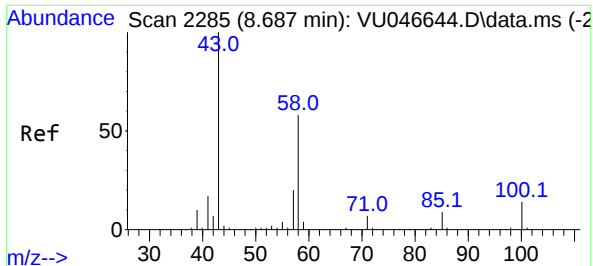
Delta R.T. -0.200 min

Lab File: VU046650.D

Acq: 30 Dec 2021 15:48

Tgt Ion:	75	Resp:	2572
Ion	Ratio	Lower	Upper
75	100		
53	0.0	66.8	100.2#
89	0.0	41.7	62.5#
88	5.4	32.3	48.5#

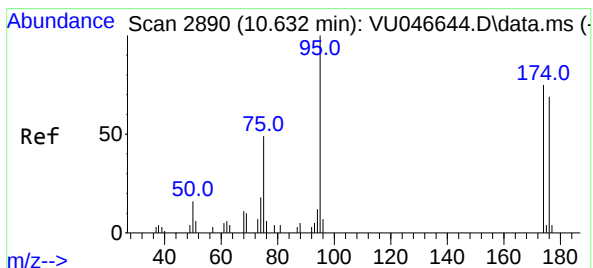
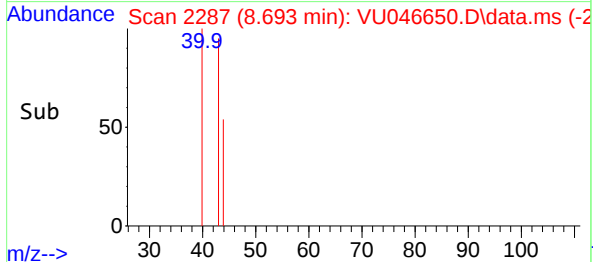
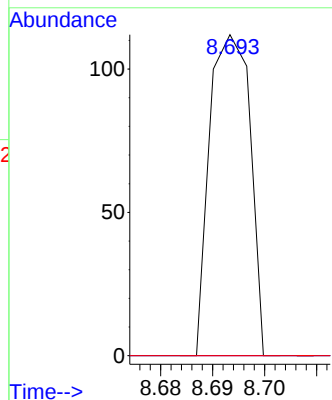
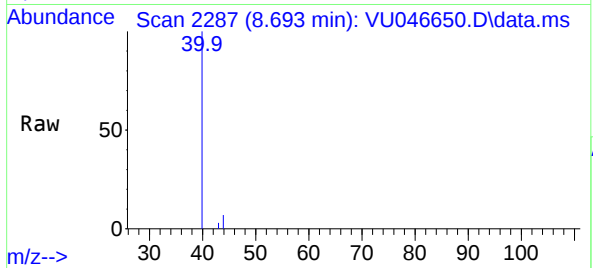




#54
2-Hexanone
Concen: 0.024 ug/l
RT: 8.693 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

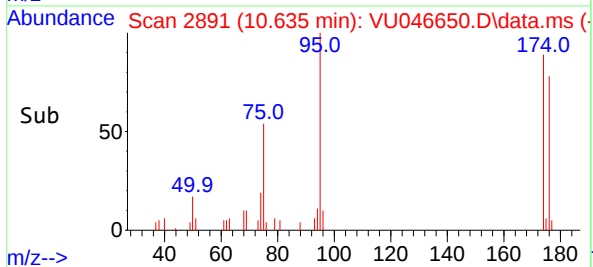
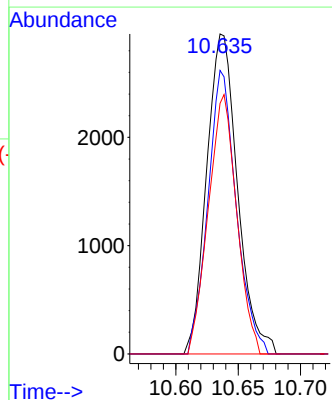
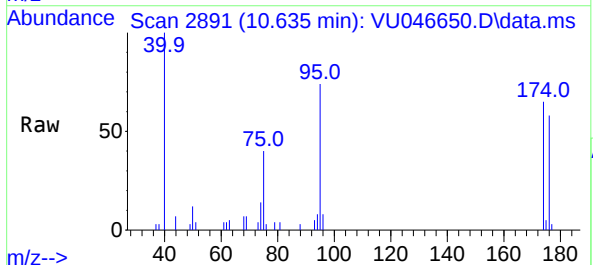
Instrument :
MSVOA_U
ClientSampleId :

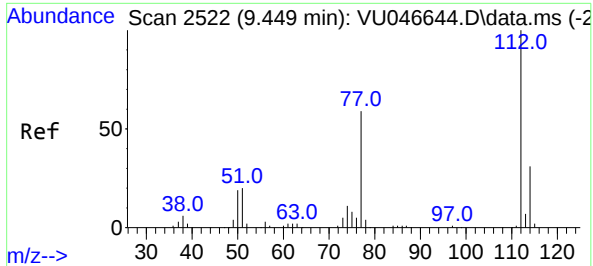
Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 37.7 77.7#
57 0.0 0.5 40.5#



#57
4-Bromofluorobenzene
Concen: 0.783 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. 0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion: 95 Resp: 5089
Ion Ratio Lower Upper
95 100
174 81.6 56.6 84.8
176 74.4 54.3 81.5

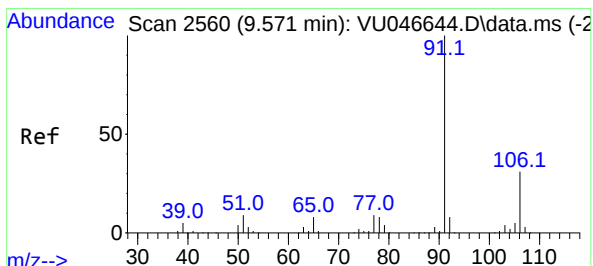
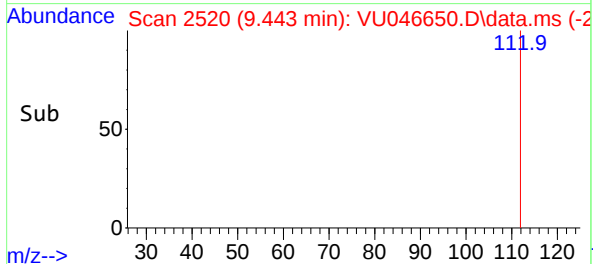
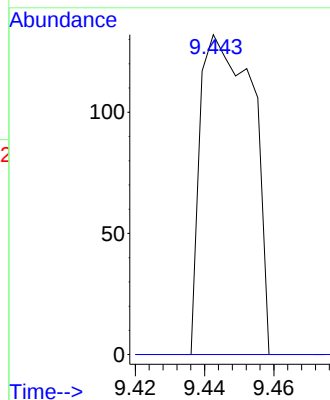
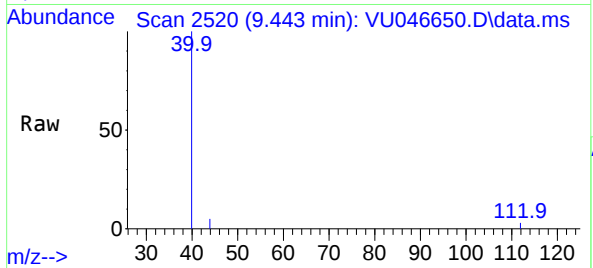




#59
Chlorobenzene
Concen: 0.011 ug/l
RT: 9.443 min Scan# 21
Delta R.T. -0.006 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

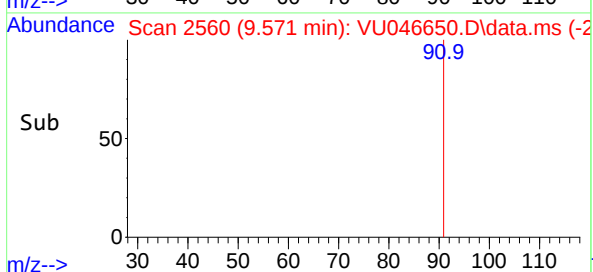
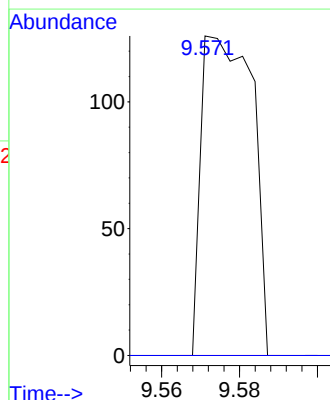
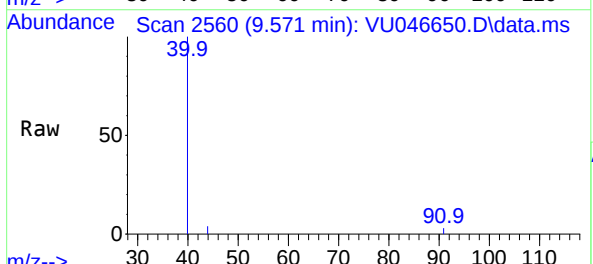
Instrument :
MSVOA_U
ClientSampleId :

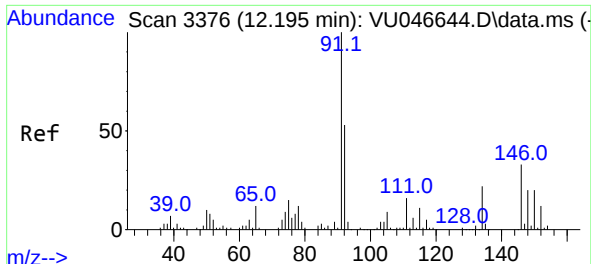
Tgt Ion:112 Resp: 137
Ion Ratio Lower Upper
112 100
114 0.0 25.4 38.0#



#63
Ethyl Benzene
Concen: 0.005 ug/l
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

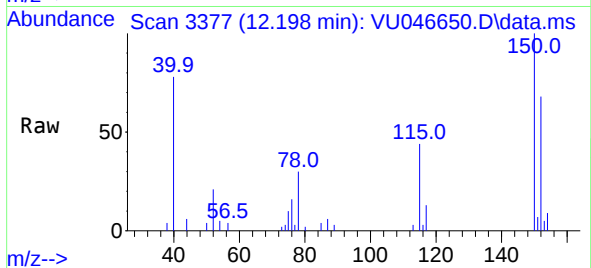
Tgt Ion: 91 Resp: 114
Ion Ratio Lower Upper
91 100
106 0.0 24.4 36.6#



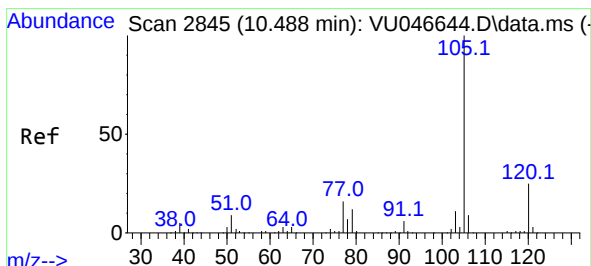
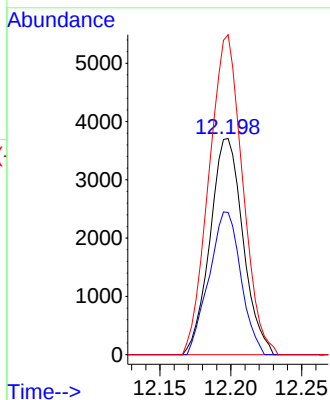
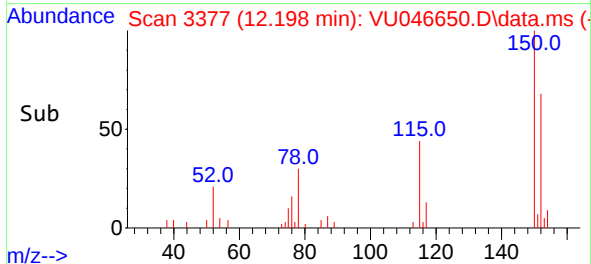


#68
 1,2-Dichlorobenzene-d4
 Concen: 0.854 ug/l
 RT: 12.198 min Scan# 3111
 Delta R.T. 0.003 min
 Lab File: VU046650.D
 Acq: 30 Dec 2021 15:48

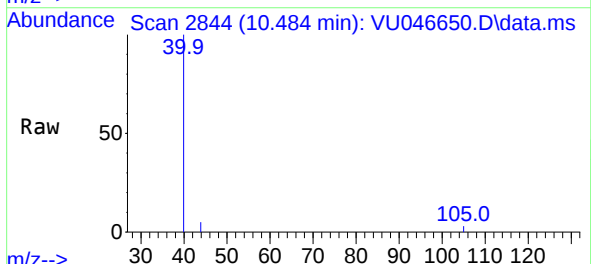
Instrument :
 MSVOA_U
 ClientSampleId :



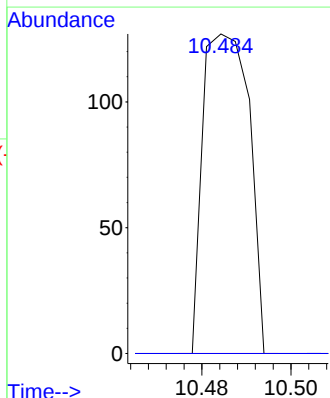
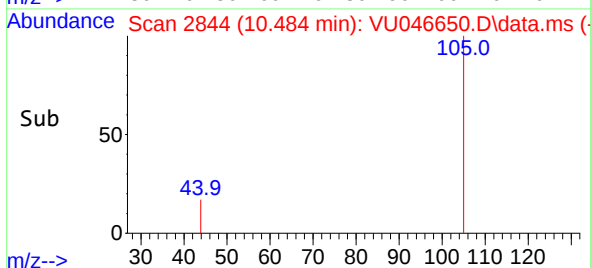
Tgt Ion:152 Resp: 6011
 Ion Ratio Lower Upper
 152 100
 115 63.5 0.0 251.0
 150 150.7 0.0 613.8

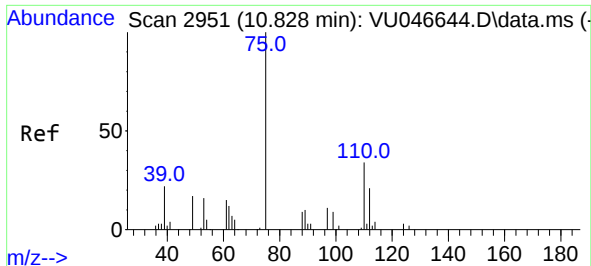


#69
 Isopropylbenzene
 Concen: 0.004 ug/l
 RT: 10.484 min Scan# 2844
 Delta R.T. -0.004 min
 Lab File: VU046650.D
 Acq: 30 Dec 2021 15:48



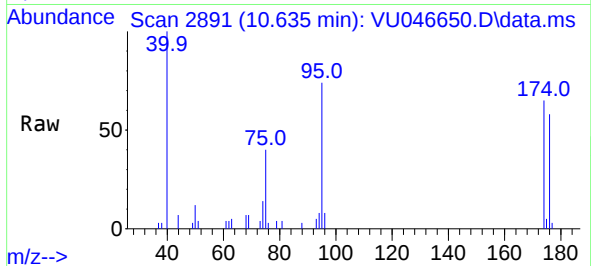
Tgt Ion:105 Resp: 91
 Ion Ratio Lower Upper
 105 100
 120 0.0 12.8 38.4#





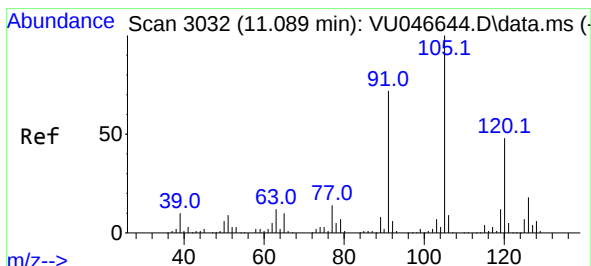
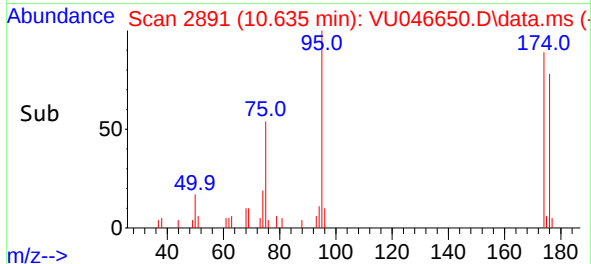
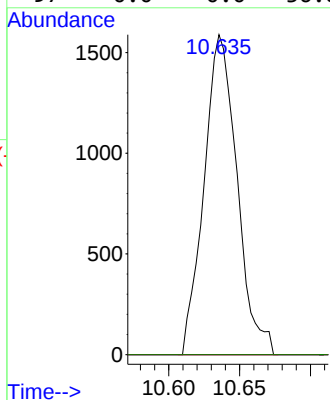
#71
1,2,3-Trichloropropane
Concen: 0.675 ug/l
RT: 10.635 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 75 Resp: 2572

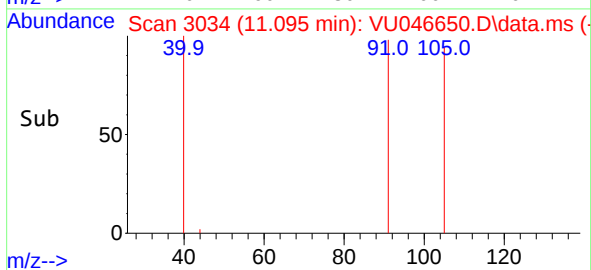
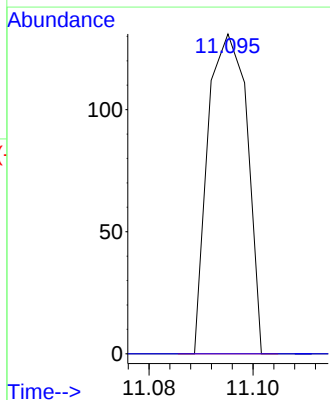
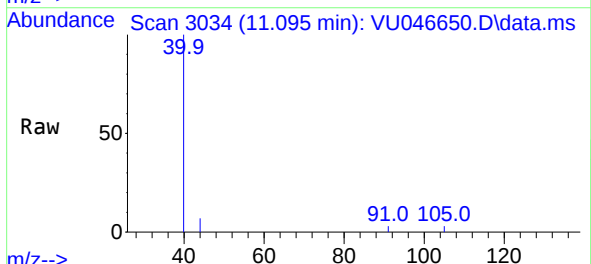
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	105.6
110	0.0	0.0	71.2
97	0.0	0.0	36.8

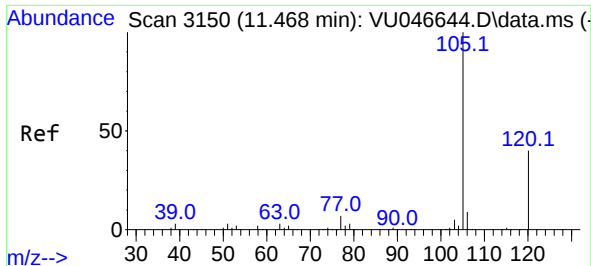


#75
1,3,5-Trimethylbenzene
Concen: 0.480 ug/l
RT: 11.095 min Scan# 3034
Delta R.T. 0.006 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion: 105 Resp: 68

Ion	Ratio	Lower	Upper
105	100		
120	0.0	38.6	58.0#

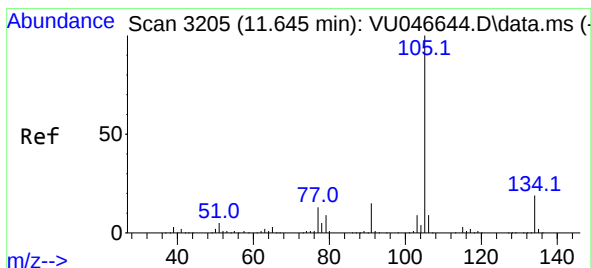
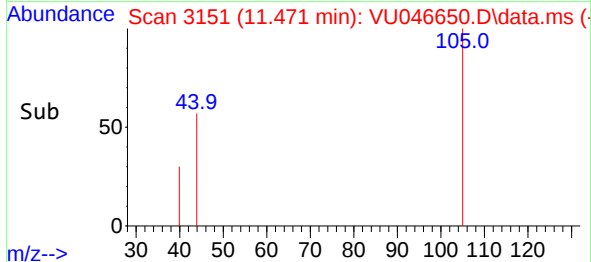
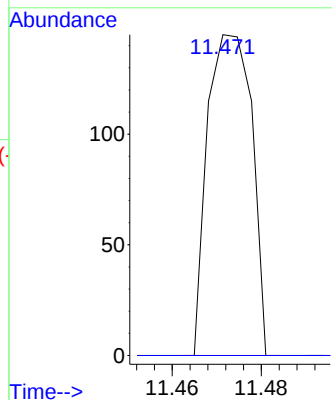
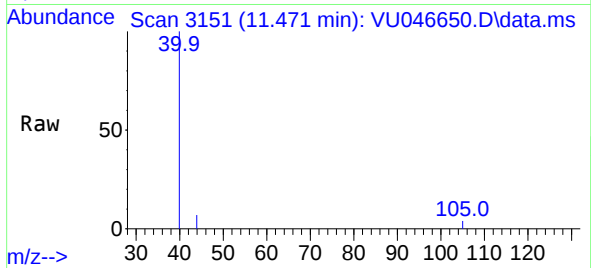




#78
1,2,4-Trimethylbenzene
Concen: 0.480 ug/l
RT: 11.471 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

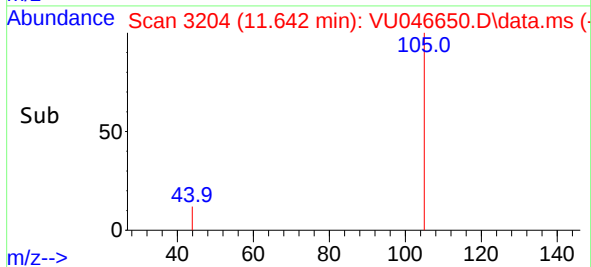
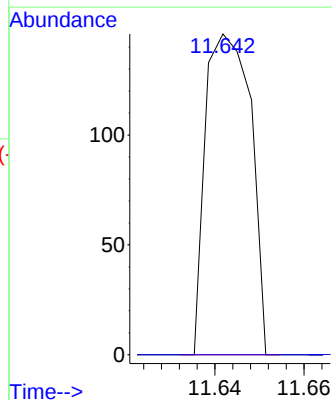
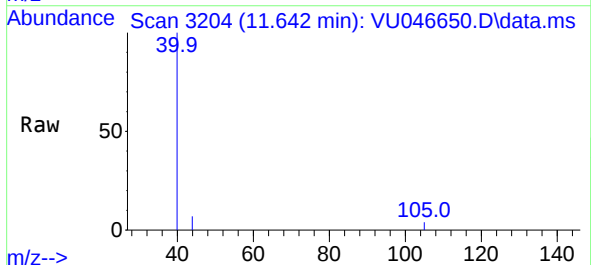
Instrument :
MSVOA_U
ClientSampleId :

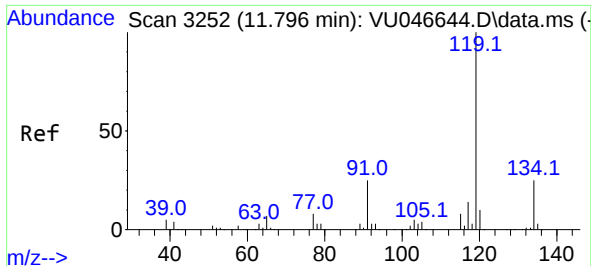
Tgt Ion:105 Resp: 100
Ion Ratio Lower Upper
105 100
120 0.0 22.3 66.8#



#79
sec-Butylbenzene
Concen: 0.004 ug/l
RT: 11.642 min Scan# 3204
Delta R.T. -0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion:105 Resp: 103
Ion Ratio Lower Upper
105 100
134 0.0 15.4 23.0#

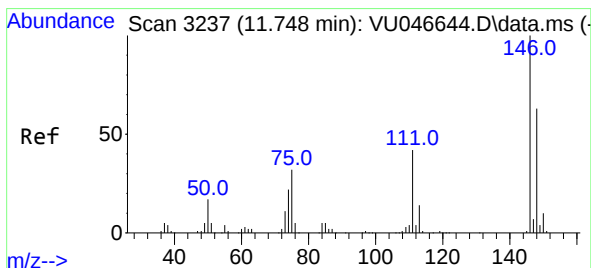
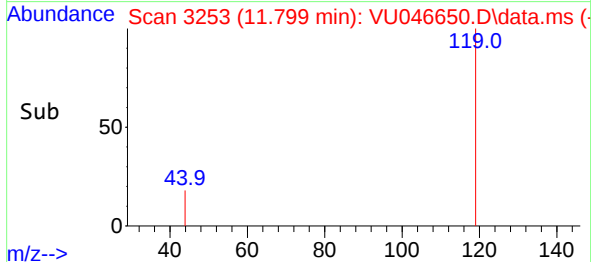
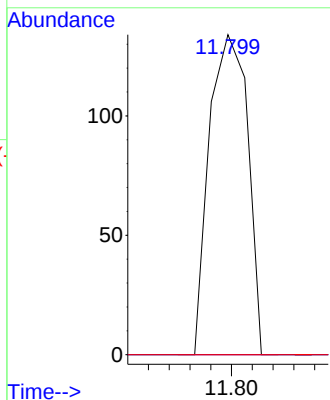
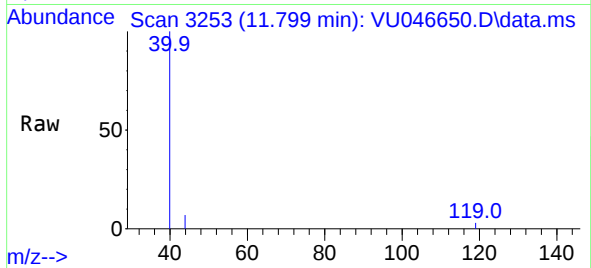




#81
p-Isopropyltoluene
Concen: 0.520 ug/l
RT: 11.799 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

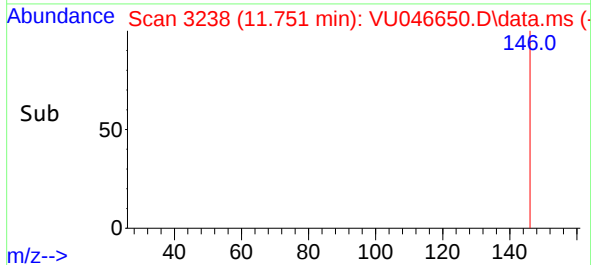
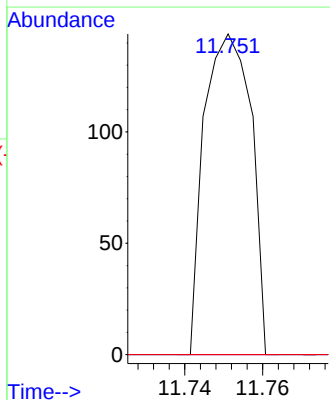
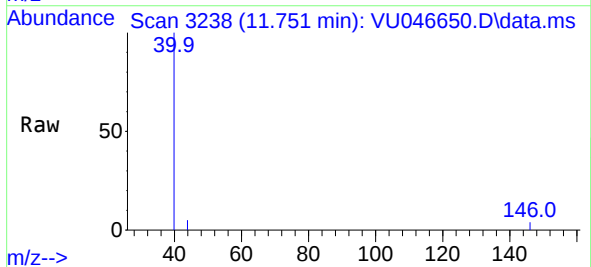
Instrument :
MSVOA_U
ClientSampleId :

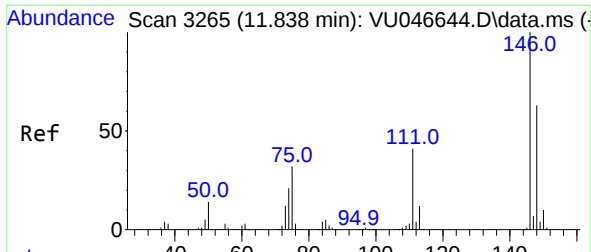
Tgt Ion:119 Resp: 69
Ion Ratio Lower Upper
119 100
134 0.0 20.2 30.4#
91 0.0 19.9 29.9#



#82
1,3-Dichlorobenzene
Concen: 0.011 ug/l
RT: 11.751 min Scan# 3238
Delta R.T. 0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion:146 Resp: 120
Ion Ratio Lower Upper
146 100
111 0.0 33.9 50.9#
148 0.0 50.9 76.3#

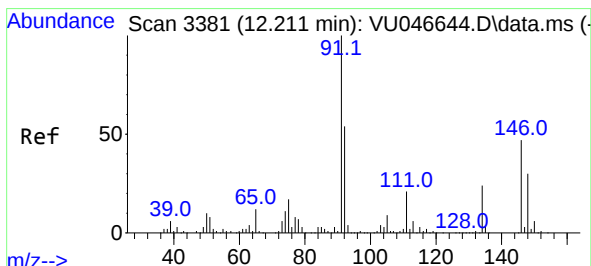
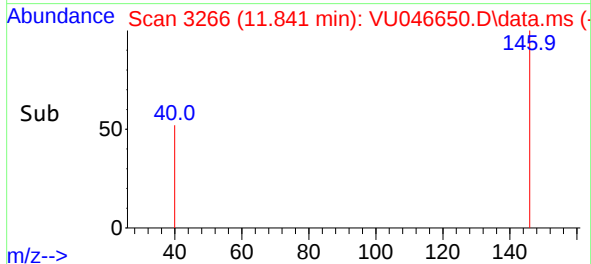
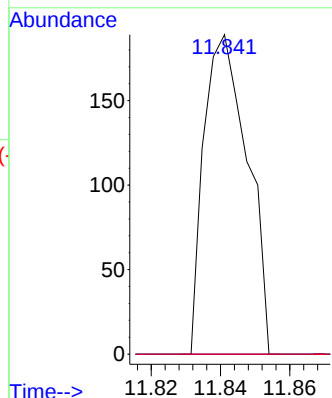
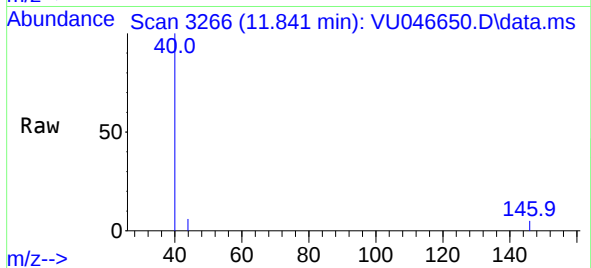




#83
1,4-Dichlorobenzene
Concen: 0.014 ug/l
RT: 11.841 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

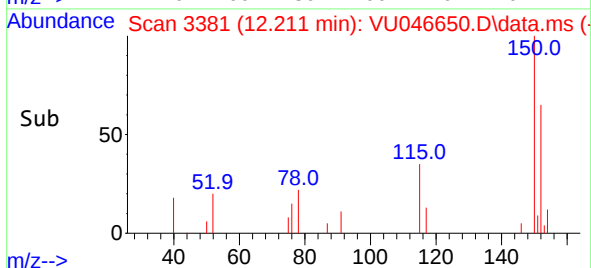
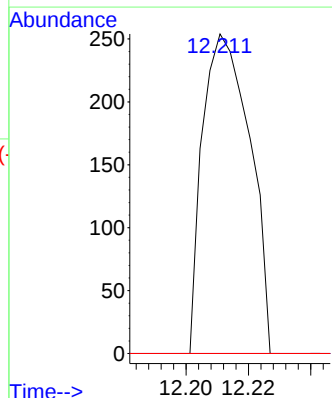
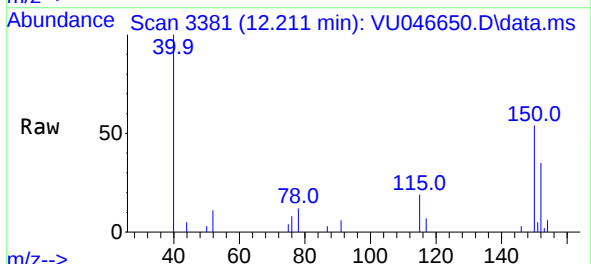
Instrument :
MSVOA_U
ClientSampleId :

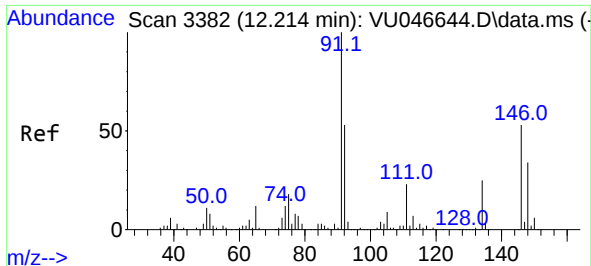
Tgt Ion:146 Resp: 165
Ion Ratio Lower Upper
146 100
111 0.0 32.7 49.1#
148 0.0 51.4 77.0#



#84
n-Butylbenzene
Concen: 0.014 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

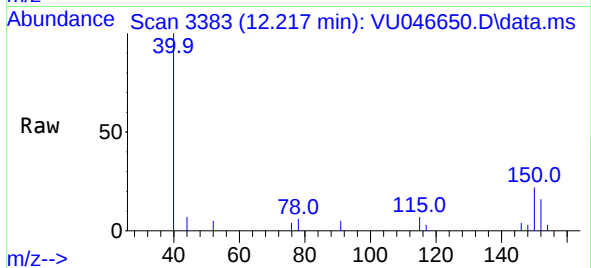
Tgt Ion: 91 Resp: 267
Ion Ratio Lower Upper
91 100
92 0.0 43.5 65.3#
134 0.0 19.0 28.4#



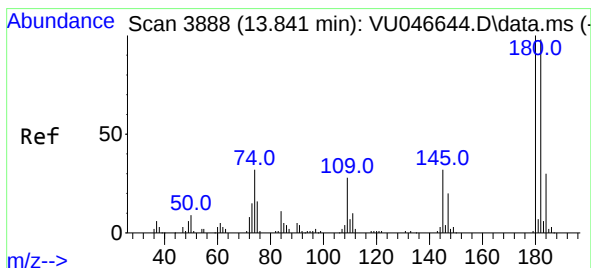
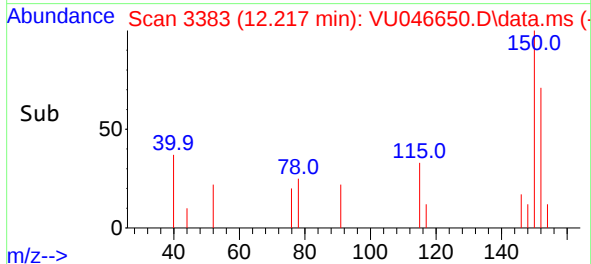
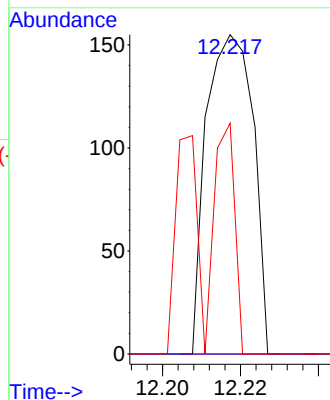


#85
1,2-Dichlorobenzene
Concen: 0.012 ug/l
RT: 12.217 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Instrument :
MSVOA_U
ClientSampleId :

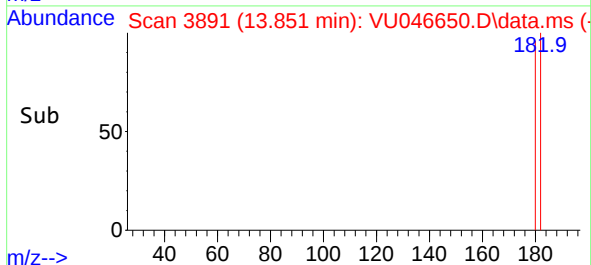
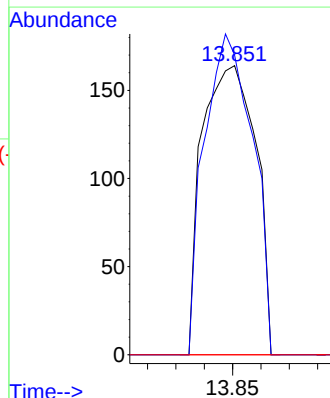
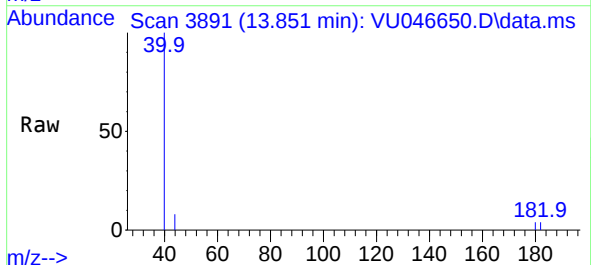


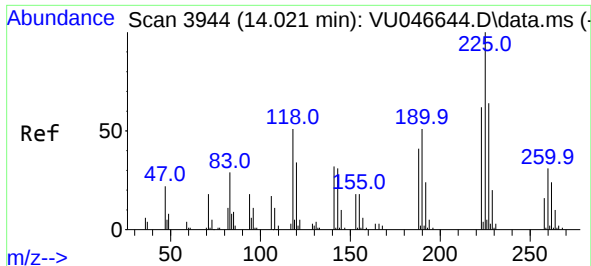
Tgt Ion:146 Resp: 129
Ion Ratio Lower Upper
146 100
111 0.0 22.1 66.1#
148 31.8 31.6 94.7



#87
1,2,4-Trichlorobenzene
Concen: 0.032 ug/l
RT: 13.851 min Scan# 3891
Delta R.T. 0.010 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

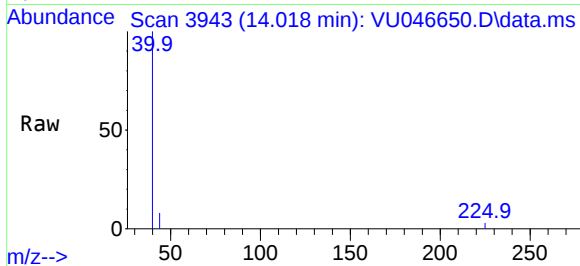
Tgt Ion:180 Resp: 215
Ion Ratio Lower Upper
180 100
182 100.0 75.8 113.8
145 0.0 25.3 37.9#



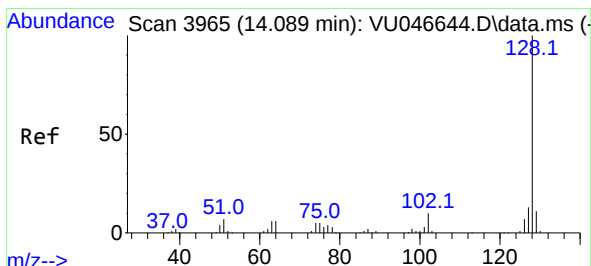
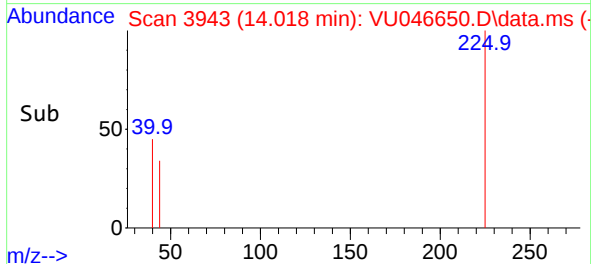
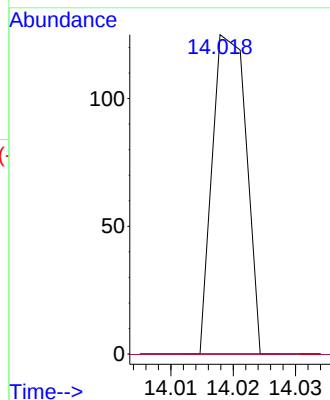


#88
Hexachlorobutadiene
Concen: 0.011 ug/l
RT: 14.018 min Scan# 3943
Delta R.T. -0.003 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Instrument :
MSVOA_U
ClientSampleId :

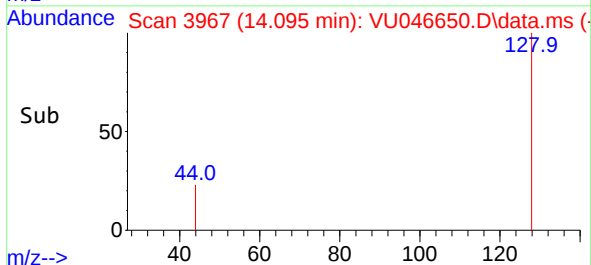
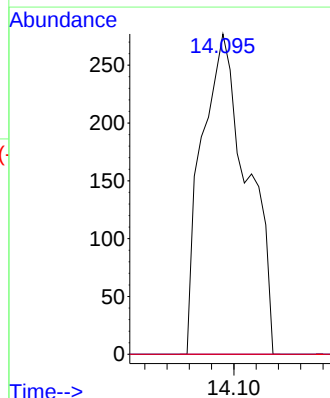
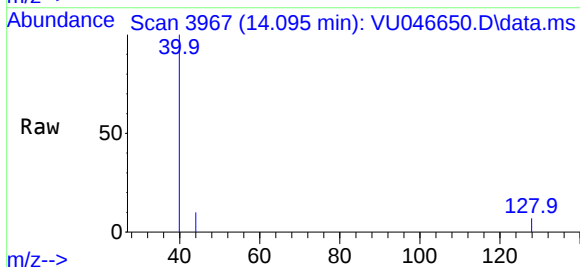


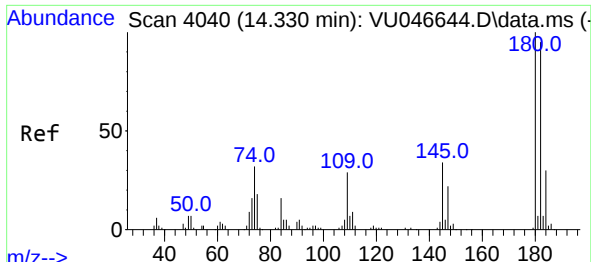
Tgt Ion:225 Resp: 47
Ion Ratio Lower Upper
225 100
223 0.0 51.1 76.7#
227 0.0 49.9 74.9#



#89
Naphthalene
Concen: 0.103 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.006 min
Lab File: VU046650.D
Acq: 30 Dec 2021 15:48

Tgt Ion:128 Resp: 395
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 13.0#





#90

1,2,3-Trichlorobenzene

Concen: 0.030 ug/l

RT: 14.330 min Scan# 40

Delta R.T. -0.000 min

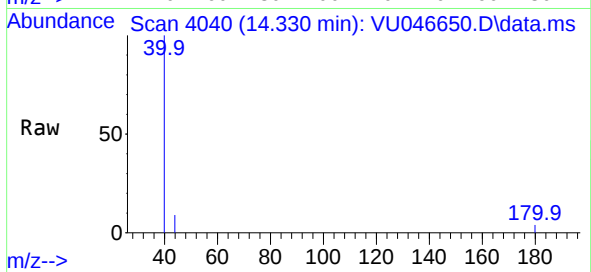
Lab File: VU046650.D

Acq: 30 Dec 2021 15:48

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 195

Ion Ratio Lower Upper

180 100

182 70.8 75.4 113.0#

145 0.0 27.0 40.4#

