

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU123021\
 Data File : VU046651.D
 Acq On : 30 Dec 2021 16:12
 Operator : SY/MD
 Sample : M5221-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 31 07:26:14 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)

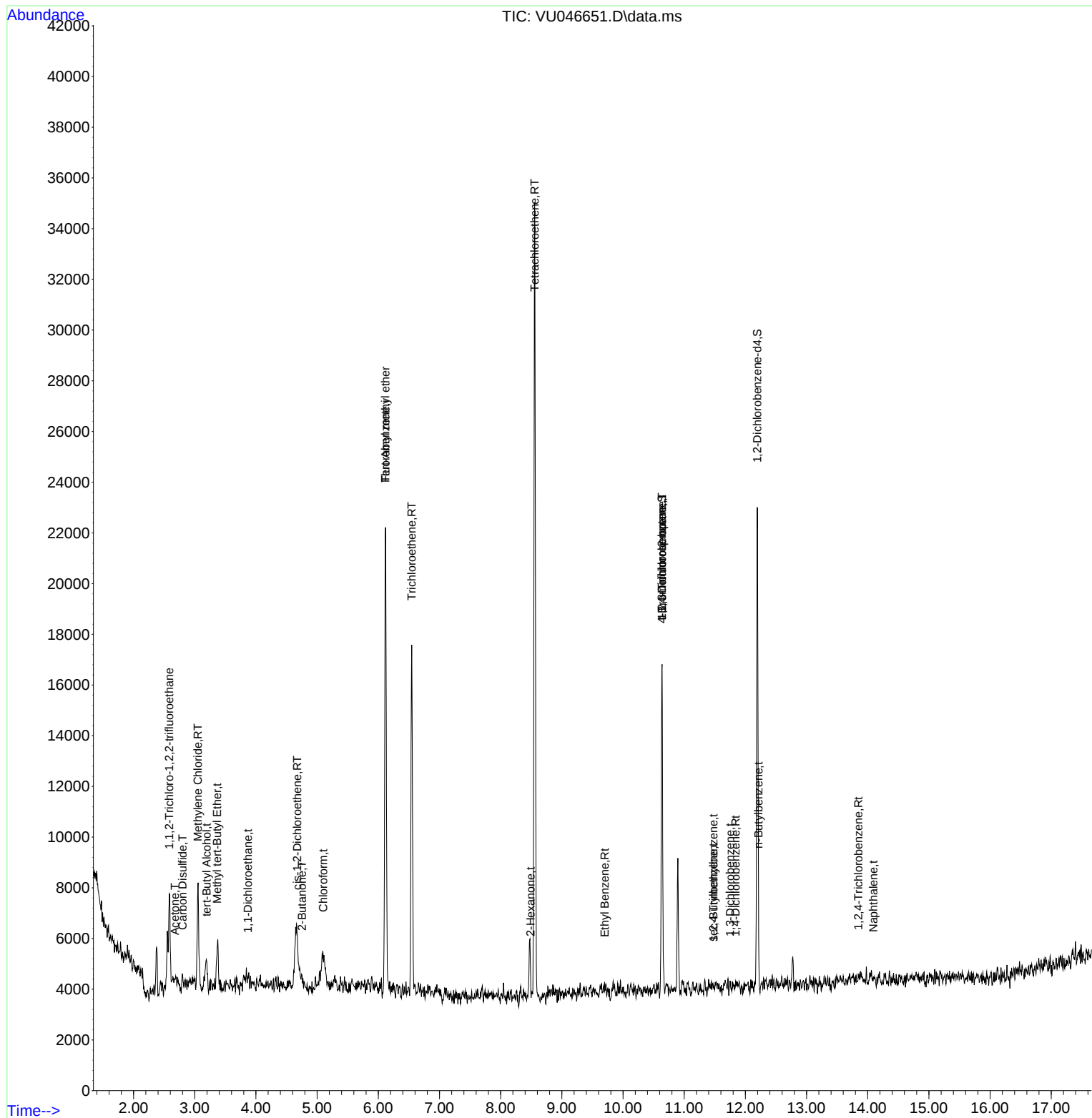
Internal Standards						
1) Fluorobenzene	6.118	96	16688	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.636	95	4621	0.778	ug/l	0.00
Spiked Amount 1.000			Recovery	=	78.000%	
68) 1,2-Dichlorobenzene-d4	12.195	152	5293	0.824	ug/l	0.00
Spiked Amount 1.000			Recovery	=	82.000%	
Target Compounds						
					Qvalue	
8) 1,1,2-Trichloro-1,2,2-...	2.584	101	1411	0.298	ug/l	90
13) Acetone	2.678	43	310	0.290	ug/l #	20
14) Carbon Disulfide	2.800	76	319	0.022	ug/l #	75
15) Methylene Chloride	3.051	84	1912	0.194	ug/l	91
17) 1,1-Dichloroethane	3.867	63	325	0.037	ug/l #	82
18) 2-Butanone	4.752	43	40	0.025	ug/l	77
22) cis-1,2-Dichloroethene	4.674	96	712	0.143	ug/l	98
24) tert-Butyl Alcohol	3.195	59	611	4.298	ug/l #	49
25) Methyl tert-Butyl Ether	3.366	73	2029	0.189	ug/l #	74
27) Chloroform	5.099	83	353	0.037	ug/l	86
33) Tert-Amyl methyl ether	6.118	73	184	0.018	ug/l #	58
37) Trichloroethene	6.546	130	4483	0.940	ug/l	95
46) t-1,4-Dichloro-2-butene	10.639	75	2383	1.413	ug/l #	20
54) 2-Hexanone	8.491	43	20	0.009	ug/l #	31
58) Tetrachloroethene	8.555	164	6917	1.640	ug/l	94
63) Ethyl Benzene	9.700	91	40	0.002	ug/l #	44
71) 1,2,3-Trichloropropane	10.639	75	2383	0.684	ug/l #	36
78) 1,2,4-Trimethylbenzene	11.478	105	21	0.477	ug/l #	32
79) sec-Butylbenzene	11.478	105	21	0.001	ug/l #	58
82) 1,3-Dichlorobenzene	11.751	146	20	0.002	ug/l #	24
83) 1,4-Dichlorobenzene	11.841	146	43	0.004	ug/l #	24
84) n-Butylbenzene	12.214	91	68	0.004	ug/l #	33
87) 1,2,4-Trichlorobenzene	13.844	180	42	0.007	ug/l #	12
89) Naphthalene	14.092	128	20	0.065	ug/l #	69

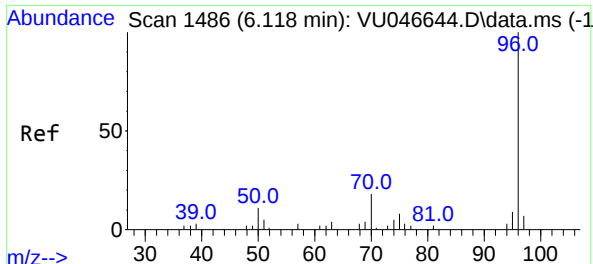
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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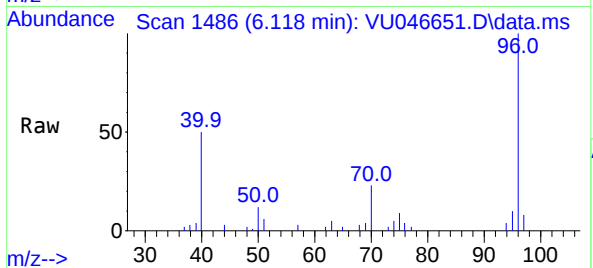
Quant Time: Dec 31 07:26:14 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U123021DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Dec 30 12:44:59 2021
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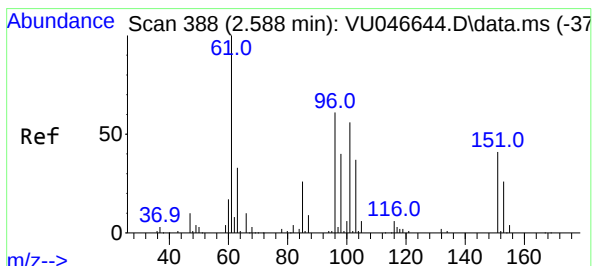
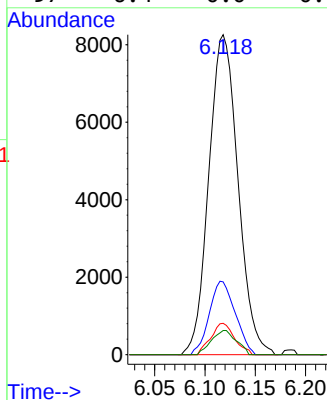
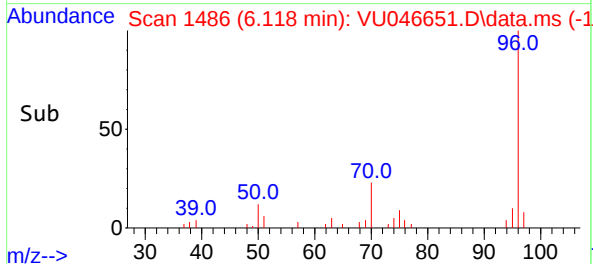
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 16688

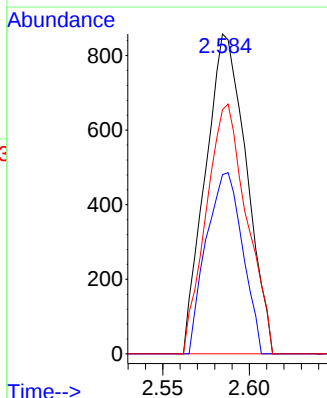
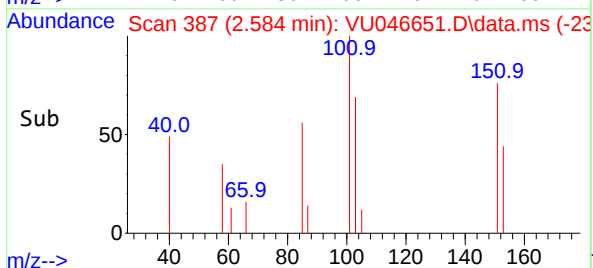
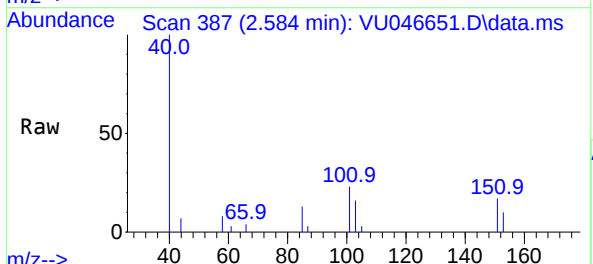
Ion	Ratio	Lower	Upper
96	100		
70	20.3	16.8	25.2
95	8.0	7.3	10.9
97	6.4	0.0	0.0

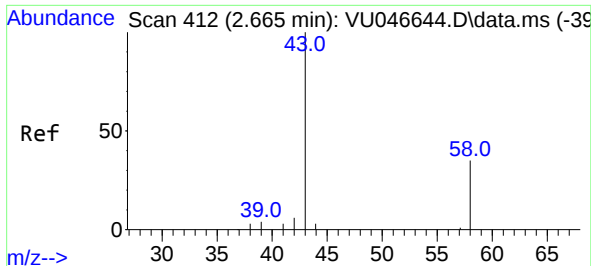


#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.298 ug/l
RT: 2.584 min Scan# 387
Delta R.T. -0.004 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Tgt Ion: 101 Resp: 1411

Ion	Ratio	Lower	Upper
101	100		
85	50.3	35.8	53.6
151	77.4	54.6	81.8





#13

Acetone

Concen: 0.290 ug/l

RT: 2.678 min Scan# 41

Delta R.T. 0.013 min

Lab File: VU046651.D

Acq: 30 Dec 2021 16:12

Instrument :

MSVOA_U

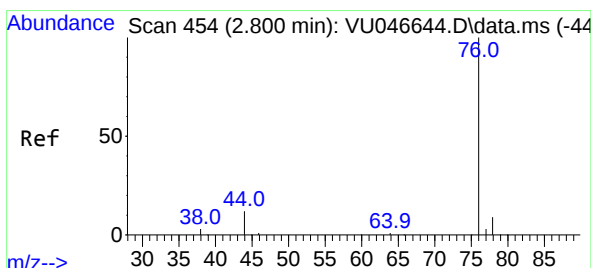
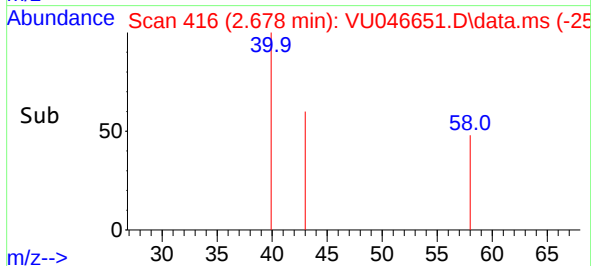
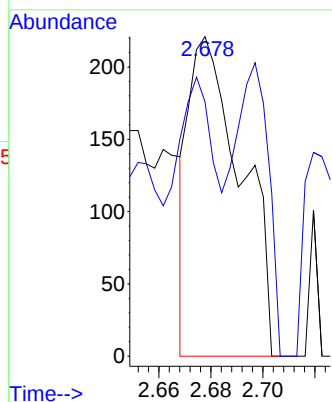
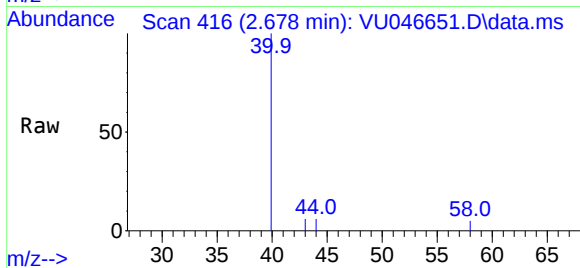
ClientSampleId :

Tgt Ion: 43 Resp: 310

Ion Ratio Lower Upper

43 100

58 79.6 27.1 40.7#



#14

Carbon Disulfide

Concen: 0.022 ug/l

RT: 2.800 min Scan# 454

Delta R.T. -0.000 min

Lab File: VU046651.D

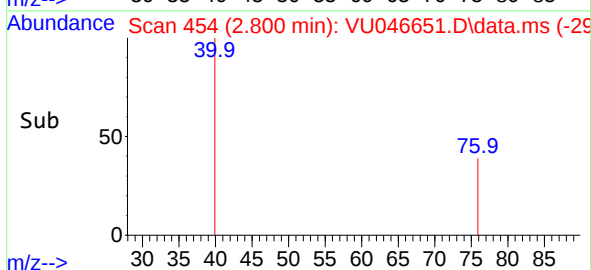
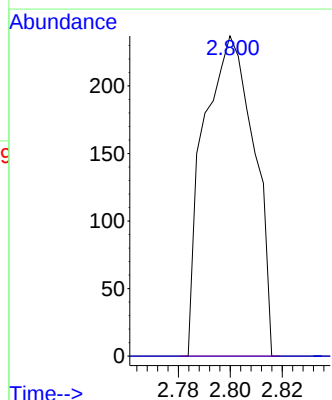
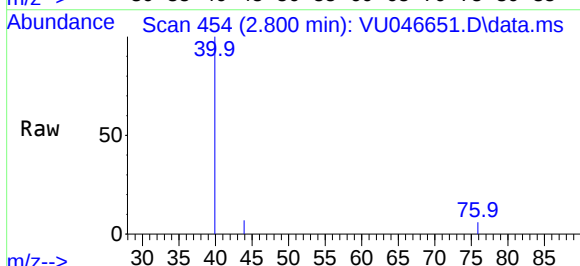
Acq: 30 Dec 2021 16:12

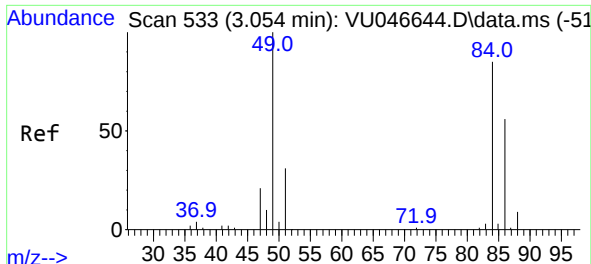
Tgt Ion: 76 Resp: 319

Ion Ratio Lower Upper

76 100

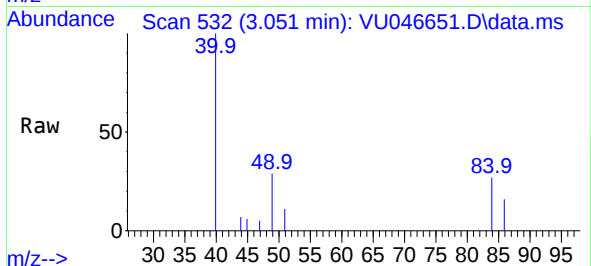
78 0.0 7.1 10.7#





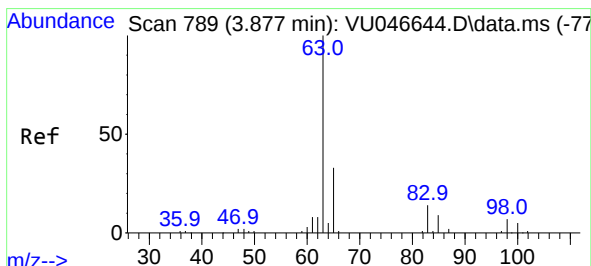
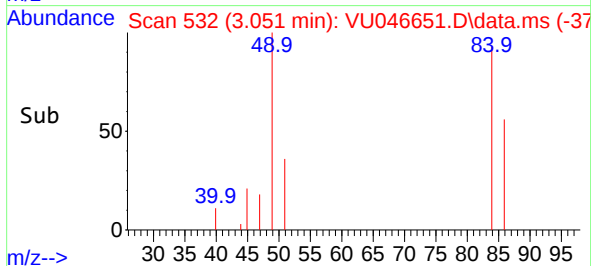
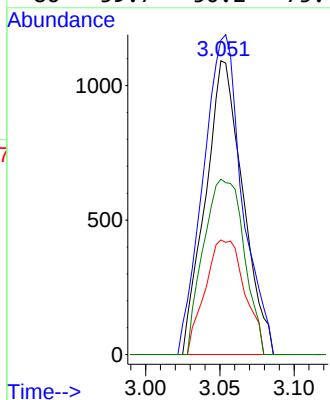
#15
Methylene Chloride
Concen: 0.194 ug/l
RT: 3.051 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 84 Resp: 1912

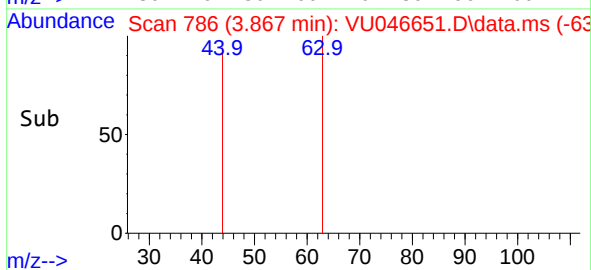
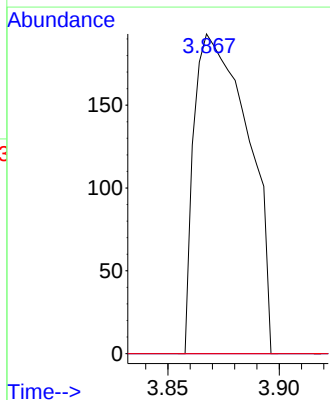
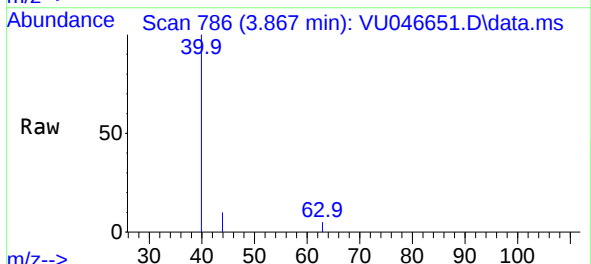
Ion	Ratio	Lower	Upper
84	100		
49	107.1	97.2	145.8
51	39.0	0.0	73.4
86	59.7	50.2	75.4

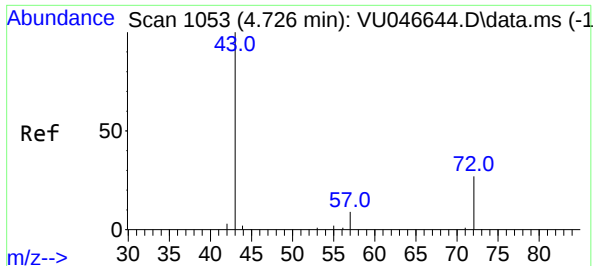


#17
1,1-Dichloroethane
Concen: 0.037 ug/l
RT: 3.867 min Scan# 786
Delta R.T. -0.010 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Tgt Ion: 63 Resp: 325

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.6	10.8#
100	0.0	2.1	6.5#





#18

2-Butanone

Concen: 0.025 ug/l

RT: 4.752 min Scan# 1061

Delta R.T. 0.026 min

Lab File: VU046651.D

Acq: 30 Dec 2021 16:12

Instrument :

MSVOA_U

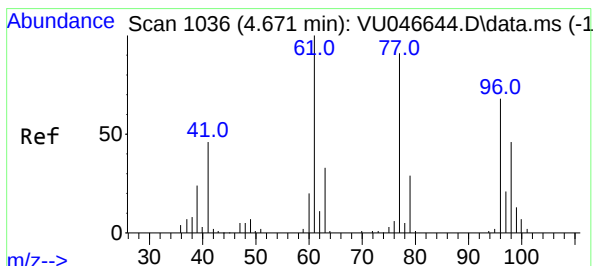
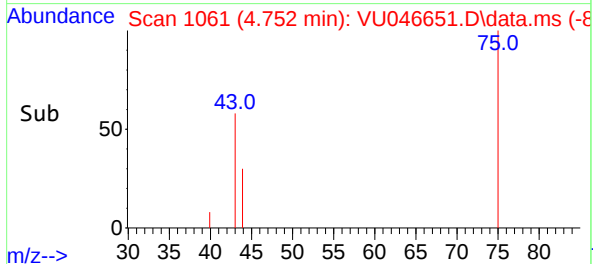
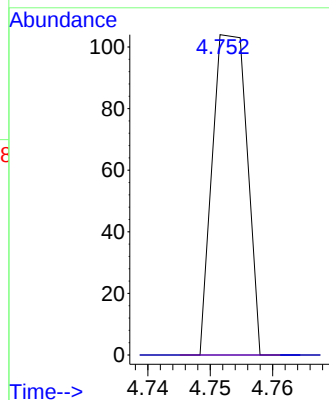
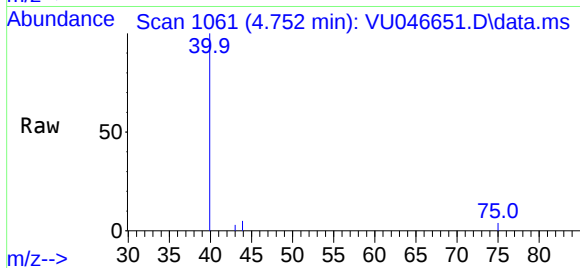
ClientSampleId :

Tgt Ion: 43 Resp: 40

Ion Ratio Lower Upper

43 100

57 0.0 0.0 16.6



#22

cis-1,2-Dichloroethene

Concen: 0.143 ug/l

RT: 4.674 min Scan# 1037

Delta R.T. 0.003 min

Lab File: VU046651.D

Acq: 30 Dec 2021 16:12

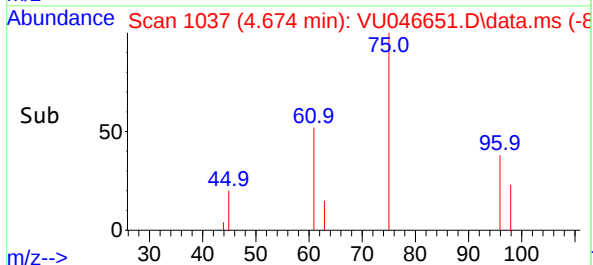
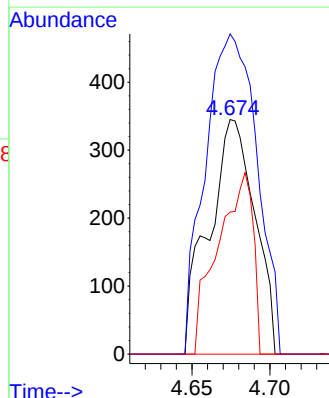
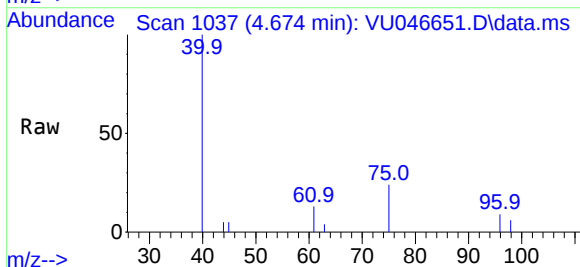
Tgt Ion: 96 Resp: 712

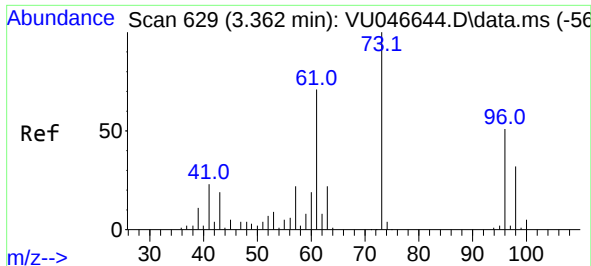
Ion Ratio Lower Upper

96 100

61 153.7 0.0 385.3

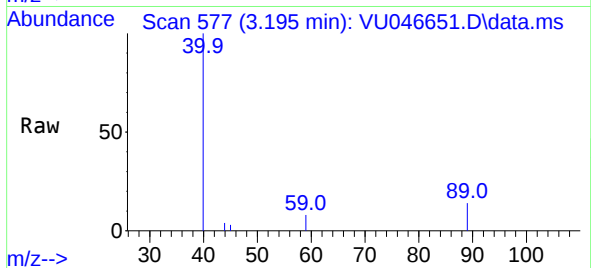
98 59.1 32.1 96.3



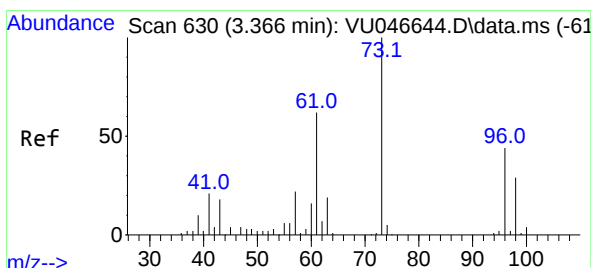
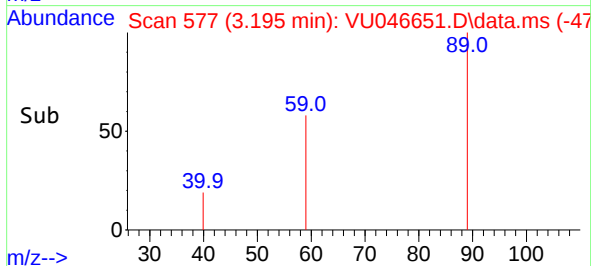
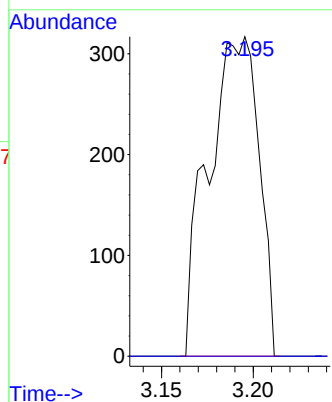


#24
tert-Butyl Alcohol
Concen: 4.298 ug/l
RT: 3.195 min Scan# 51
Delta R.T. -0.167 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :

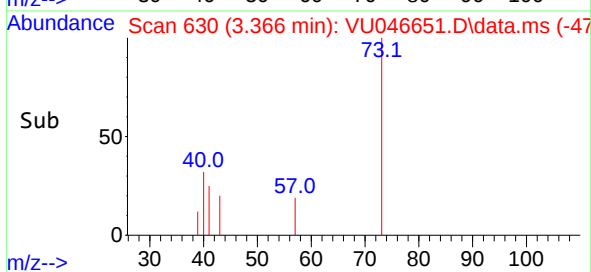
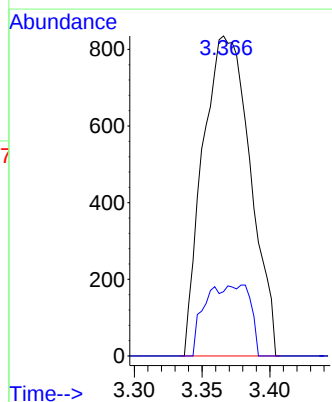
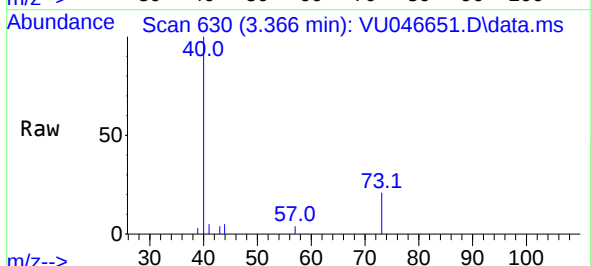


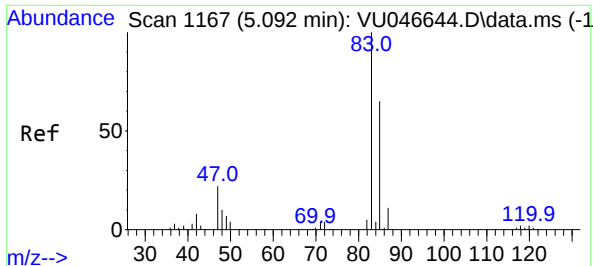
Tgt Ion: 59 Resp: 611
Ion Ratio Lower Upper
59 100
57 26.0 6.5 9.7#



#25
Methyl tert-Butyl Ether
Concen: 0.189 ug/l
RT: 3.366 min Scan# 630
Delta R.T. -0.000 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Tgt Ion: 73 Resp: 2029
Ion Ratio Lower Upper
73 100
43 8.3 16.3 24.5#





#27

Chloroform

Concen: 0.037 ug/l

RT: 5.099 min Scan# 1167

Delta R.T. 0.007 min

Lab File: VU046651.D

Acq: 30 Dec 2021 16:12

Instrument :

MSVOA_U

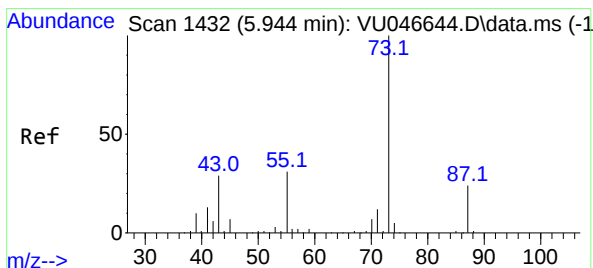
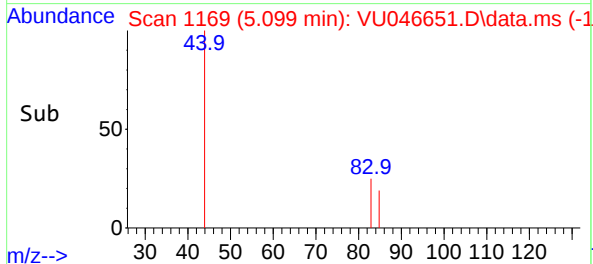
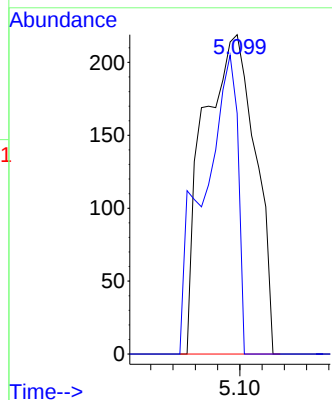
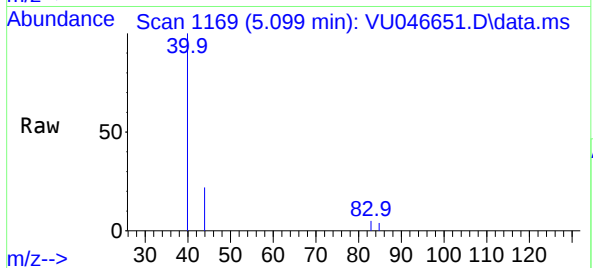
ClientSampleId :

Tgt Ion: 83 Resp: 353

Ion Ratio Lower Upper

83 100

85 75.3 0.0 129.2



#33

Tert-Amyl methyl ether

Concen: 0.018 ug/l

RT: 6.118 min Scan# 1486

Delta R.T. 0.174 min

Lab File: VU046651.D

Acq: 30 Dec 2021 16:12

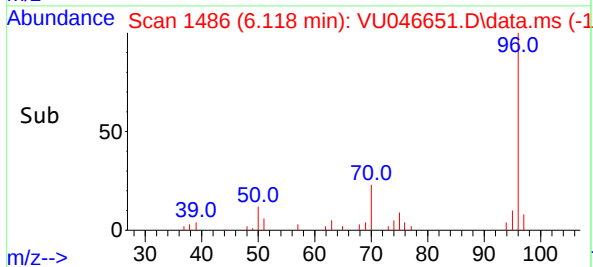
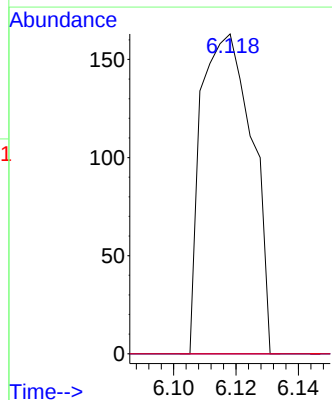
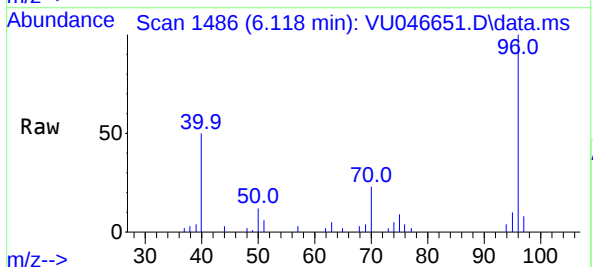
Tgt Ion: 73 Resp: 184

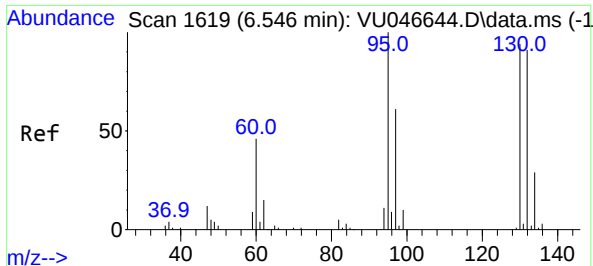
Ion Ratio Lower Upper

73 100

87 0.0 18.6 28.0#

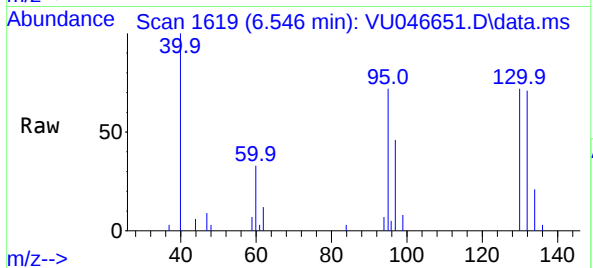
71 0.0 9.0 13.6#



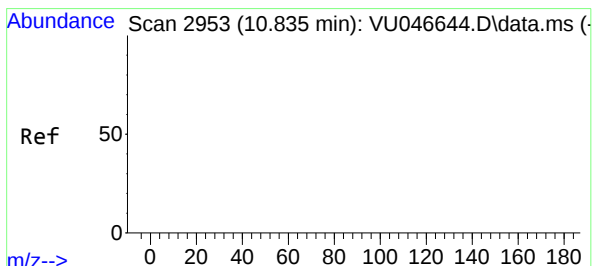
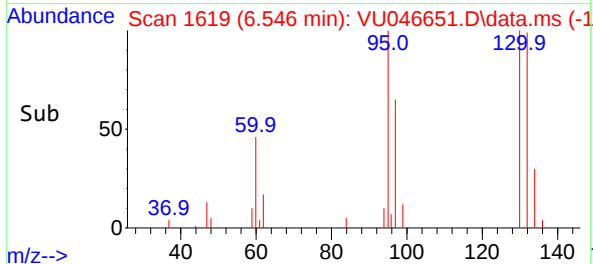
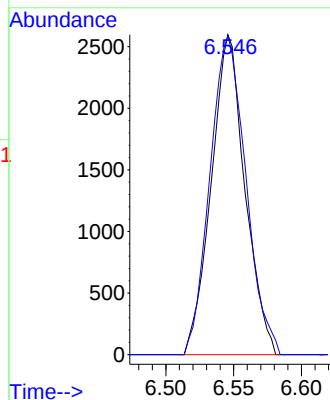


#37
Trichloroethene
Concen: 0.940 ug/l
RT: 6.546 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :

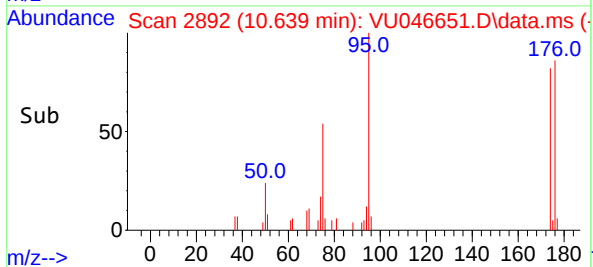
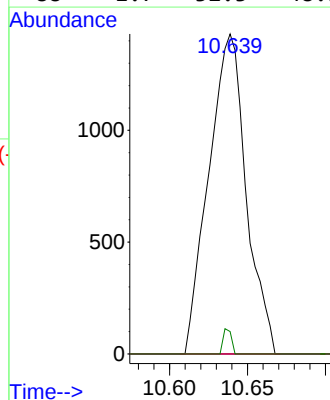
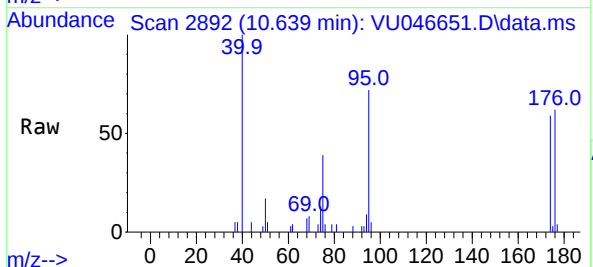


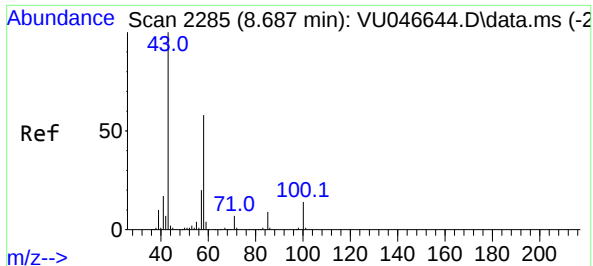
Tgt Ion:130 Resp: 4483
Ion Ratio Lower Upper
130 100
95 99.8 83.8 125.8



#46
t-1,4-Dichloro-2-butene
Concen: 1.413 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.196 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

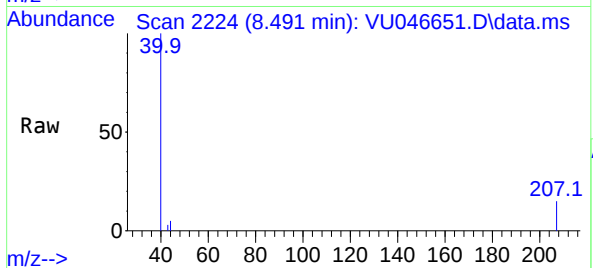
Tgt Ion: 75 Resp: 2383
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 41.7 62.5#
88 1.7 32.3 48.5#



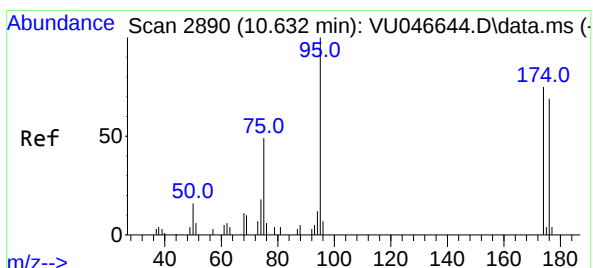
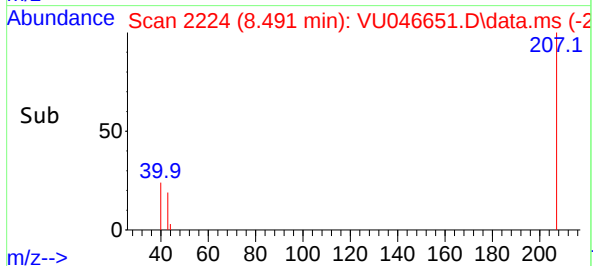
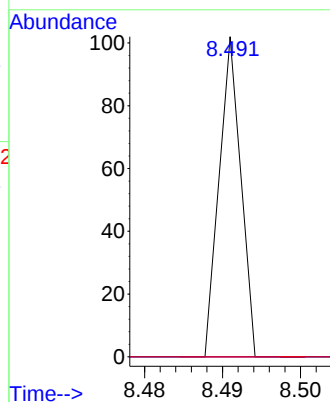


#54
2-Hexanone
Concen: 0.009 ug/l
RT: 8.491 min Scan# 21
Delta R.T. -0.196 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :

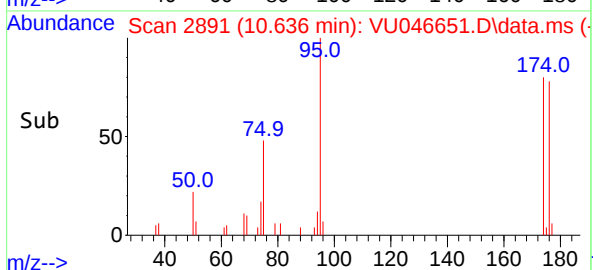
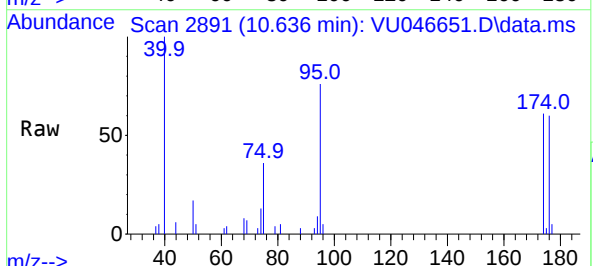
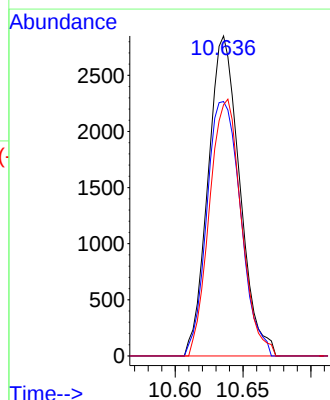


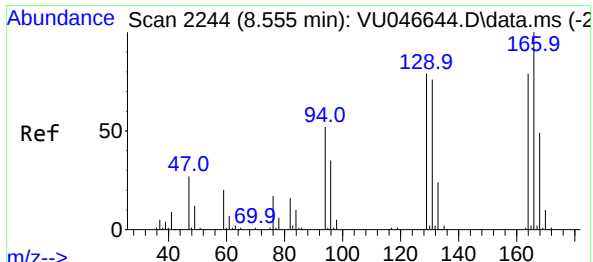
Tgt Ion: 43 Resp: 20
Ion Ratio Lower Upper
43 100
58 0.0 37.7 77.7#
57 0.0 0.5 40.5#



#57
4-Bromofluorobenzene
Concen: 0.778 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.004 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

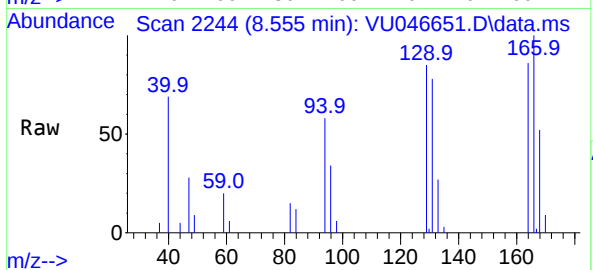
Tgt Ion: 95 Resp: 4621
Ion Ratio Lower Upper
95 100
174 85.0 56.6 84.8#
176 80.7 54.3 81.5



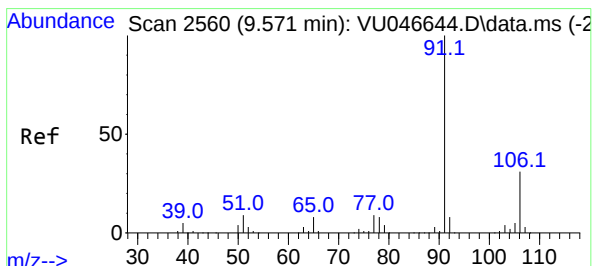
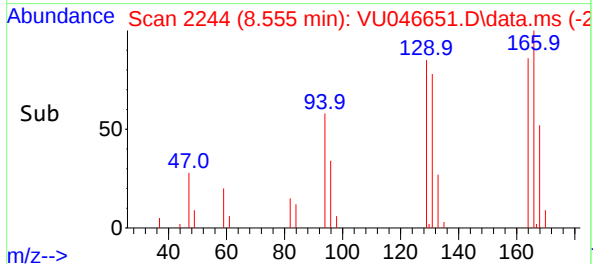
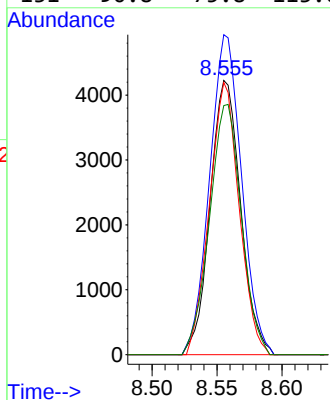


#58
Tetrachloroethene
Concen: 1.640 ug/l
RT: 8.555 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :

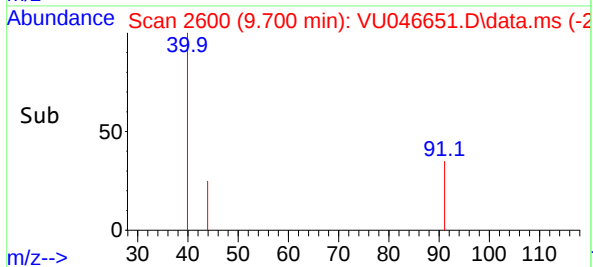
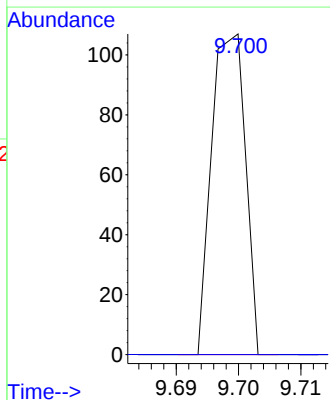
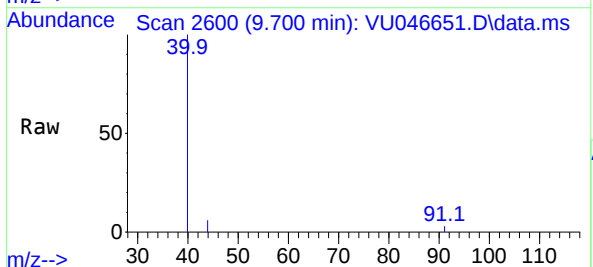


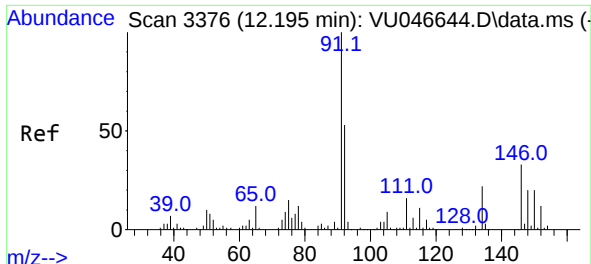
Tgt Ion:164 Resp: 6917
Ion Ratio Lower Upper
164 100
166 116.7 102.0 153.0
129 99.2 77.1 115.7
131 90.8 75.8 113.6



#63
Ethyl Benzene
Concen: 0.002 ug/l
RT: 9.700 min Scan# 2600
Delta R.T. 0.129 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

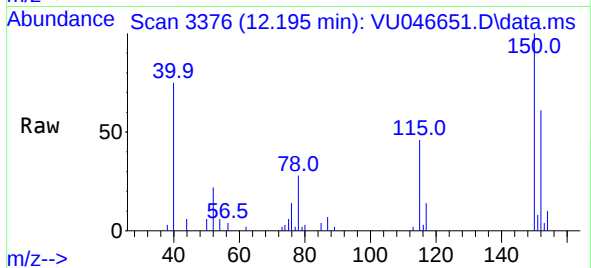
Tgt Ion: 91 Resp: 40
Ion Ratio Lower Upper
91 100
106 0.0 24.4 36.6#





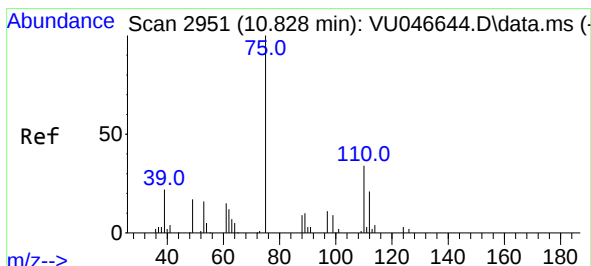
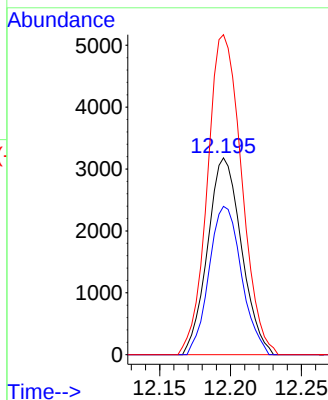
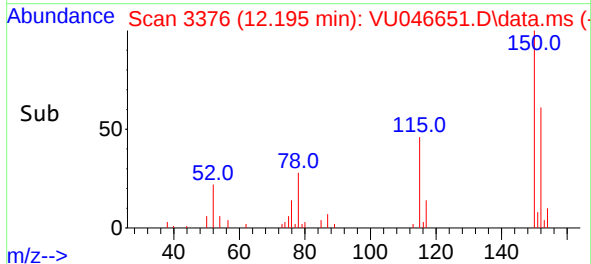
#68
 1,2-Dichlorobenzene-d4
 Concen: 0.824 ug/l
 RT: 12.195 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU046651.D
 Acq: 30 Dec 2021 16:12

Instrument :
 MSVOA_U
 ClientSampleId :

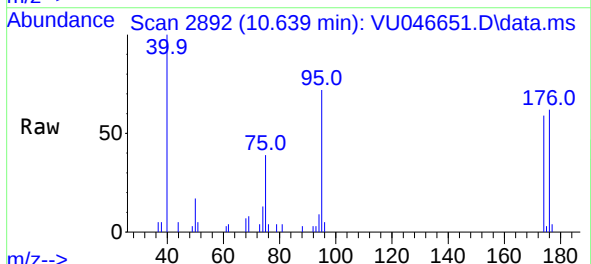


Tgt Ion:152 Resp: 5293

Ion	Ratio	Lower	Upper
152	100		
115	72.1	0.0	251.0
150	164.3	0.0	613.8

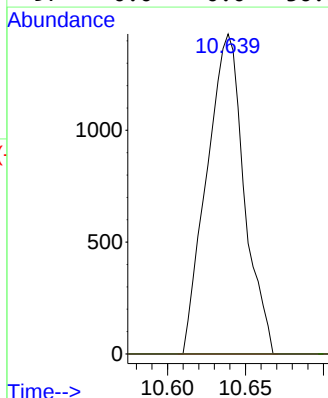
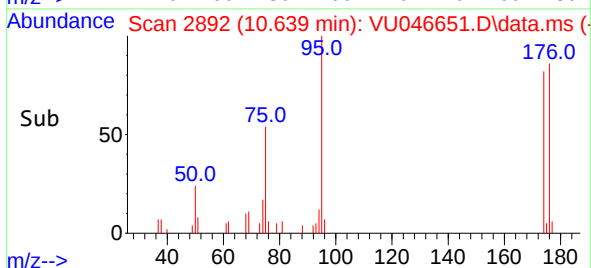


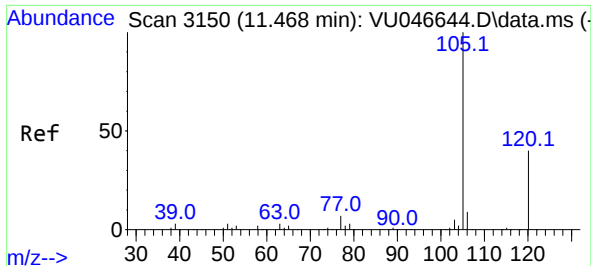
#71
 1,2,3-Trichloropropane
 Concen: 0.684 ug/l
 RT: 10.639 min Scan# 2892
 Delta R.T. -0.189 min
 Lab File: VU046651.D
 Acq: 30 Dec 2021 16:12



Tgt Ion: 75 Resp: 2383

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





#78

1,2,4-Trimethylbenzene

Concen: 0.477 ug/l

RT: 11.478 min Scan# 3153

Delta R.T. 0.010 min

Lab File: VU046651.D

Acq: 30 Dec 2021 16:12

Instrument :

MSVOA_U

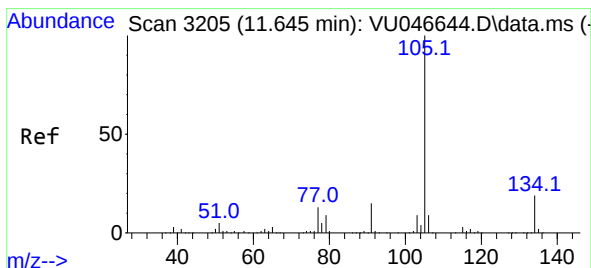
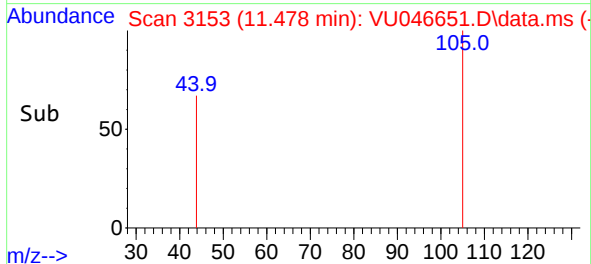
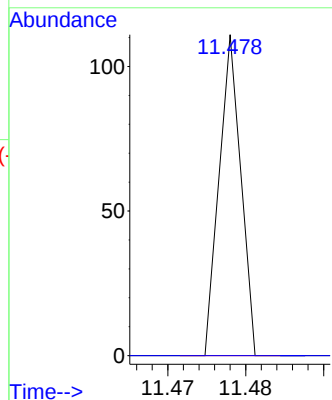
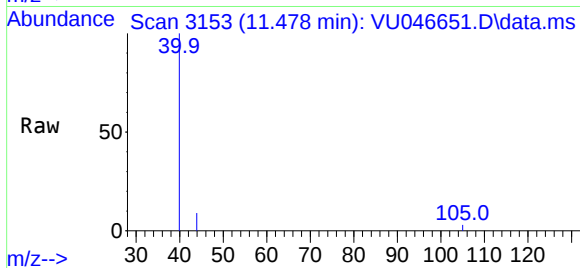
ClientSampleId :

Tgt Ion:105 Resp: 21

Ion Ratio Lower Upper

105 100

120 0.0 22.3 66.8#



#79

sec-Butylbenzene

Concen: 0.001 ug/l

RT: 11.478 min Scan# 3153

Delta R.T. -0.167 min

Lab File: VU046651.D

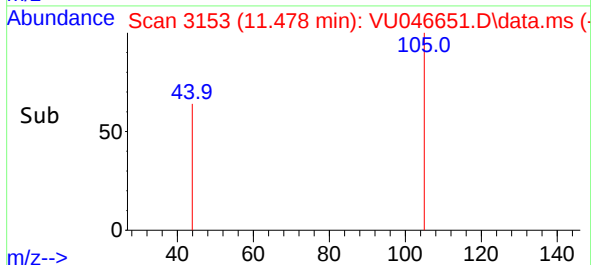
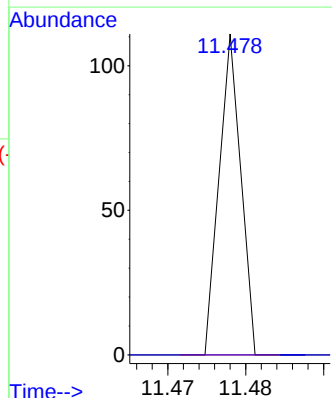
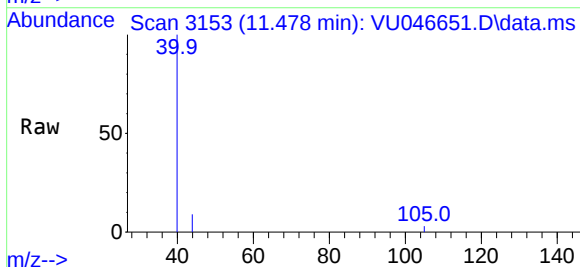
Acq: 30 Dec 2021 16:12

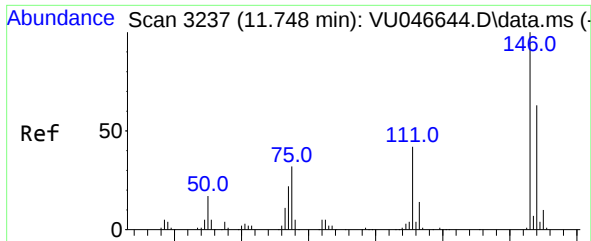
Tgt Ion:105 Resp: 21

Ion Ratio Lower Upper

105 100

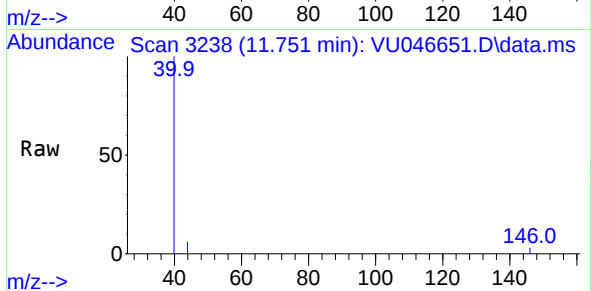
134 0.0 15.4 23.0#



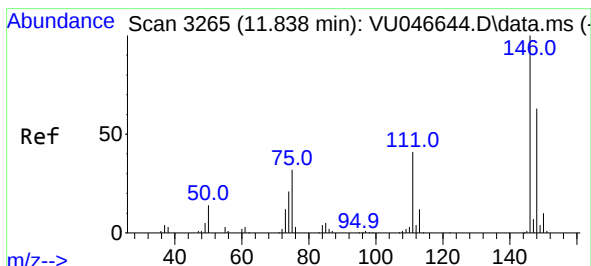
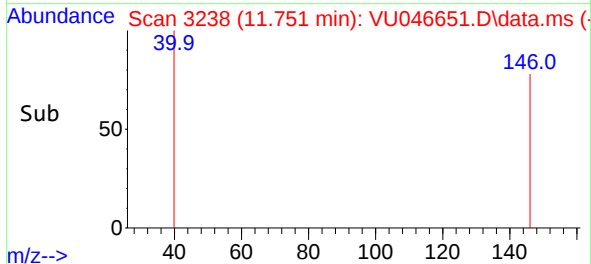
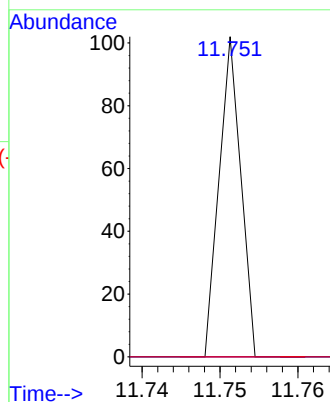


#82
1,3-Dichlorobenzene
Concen: 0.002 ug/l
RT: 11.751 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Instrument :
MSVOA_U
ClientSampleId :

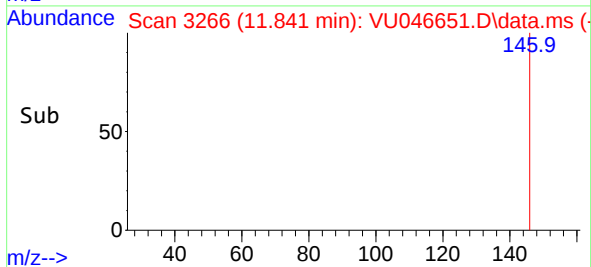
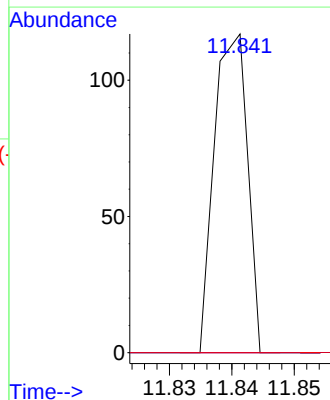
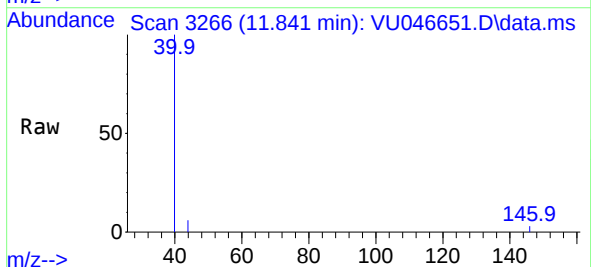


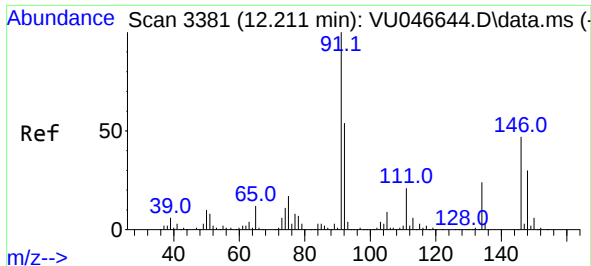
Tgt Ion:146 Resp: 20
Ion Ratio Lower Upper
146 100
111 0.0 33.9 50.9#
148 0.0 50.9 76.3#



#83
1,4-Dichlorobenzene
Concen: 0.004 ug/l
RT: 11.841 min Scan# 3266
Delta R.T. 0.003 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Tgt Ion:146 Resp: 43
Ion Ratio Lower Upper
146 100
111 0.0 32.7 49.1#
148 0.0 51.4 77.0#

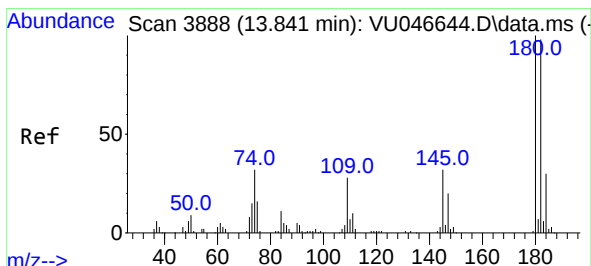
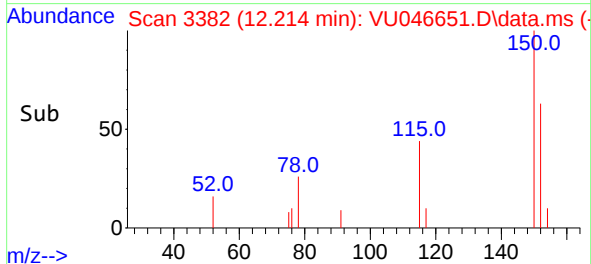
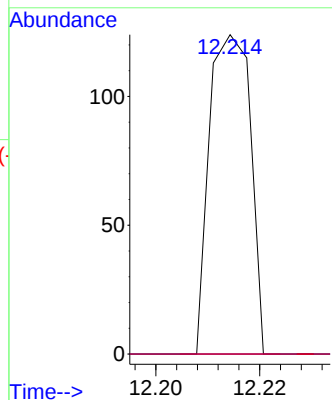
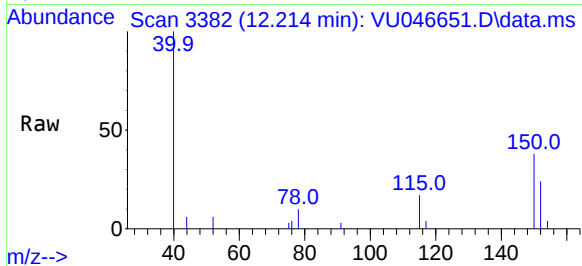




#84
n-Butylbenzene
Concen: 0.004 ug/l
RT: 12.214 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

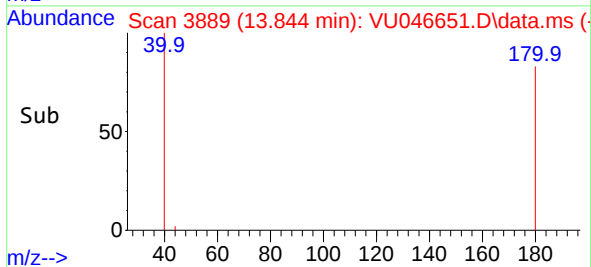
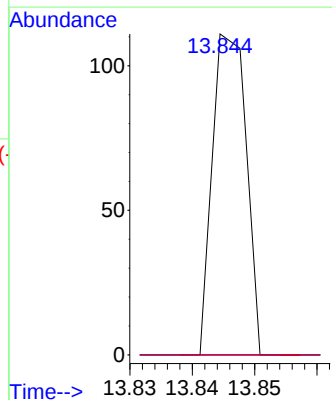
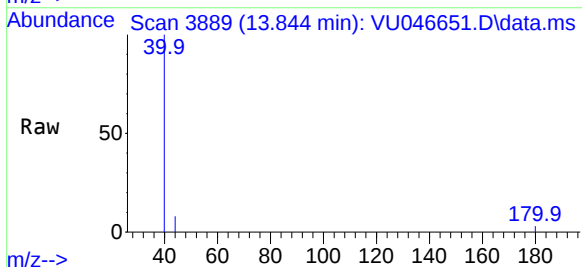
Instrument :
MSVOA_U
ClientSampleId :

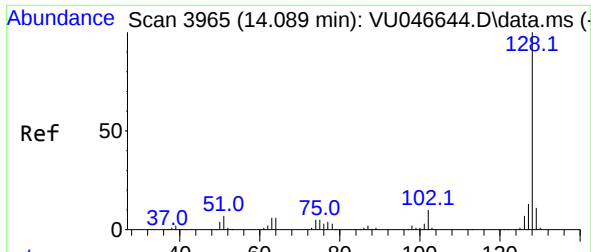
Tgt Ion: 91	Resp:	68
Ion	Ratio	Lower Upper
91	100	
92	0.0	43.5 65.3#
134	0.0	19.0 28.4#



#87
1,2,4-Trichlorobenzene
Concen: 0.007 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.003 min
Lab File: VU046651.D
Acq: 30 Dec 2021 16:12

Tgt Ion: 180	Resp:	42
Ion	Ratio	Lower Upper
180	100	
182	0.0	75.8 113.8#
145	0.0	25.3 37.9#





#89

Naphthalene

Concen: 0.065 ug/l

RT: 14.092 min Scan# 3966

Delta R.T. 0.003 min

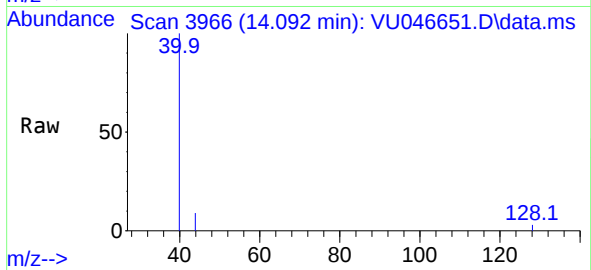
Lab File: VU046651.D

Acq: 30 Dec 2021 16:12

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 20

Ion	Ratio	Lower	Upper
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128	100		
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127	0.0	10.6	16.0#
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129	0.0	8.6	13.0#
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