

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053122\
 Data File : VU048750.D
 Acq On : 31 May 2022 19:53
 Operator : SY/MD
 Sample : N3080-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WC-5

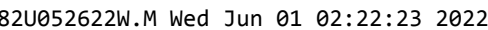
Quant Time: Jun 01 02:22:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052622W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 27 06:42:31 2022
 Response via : Initial Calibration

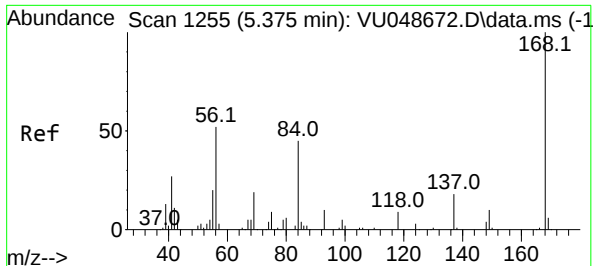
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.375	168	248325	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	439020	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	410584	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	200546	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	190696	51.134	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.260%			
35) Dibromofluoromethane	5.292	113	147194	46.996	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.000%			
50) Toluene-d8	7.899	98	522622	46.549	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 93.100%			
62) 4-Bromofluorobenzene	10.632	95	190490	44.863	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 89.720%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.858	94	146	Below Cal	#	3
6) Chloroethane	1.941	64	592	Below Cal	#	43
10) Methyl Iodide	2.723	142	221	3.057	ug/l #	60
11) Tert butyl alcohol	3.186	59	11184	11.829	ug/l #	31
13) Acrolein	2.485	56	85	Below Cal	#	79
16) Acetone	2.623	43	85984	45.241	ug/l	99
18) Methyl Acetate	2.954	43	2612	0.547	ug/l #	75
20) Methylene Chloride	3.047	84	30707	9.501	ug/l	99
25) 2-Butanone	4.713	43	11788	4.317	ug/l #	87
29) Tetrahydrofuran	5.063	42	828	0.481	ug/l #	69
31) Cyclohexane	5.372	56	5275	1.122	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	20105	4.398	ug/l #	49
37) Ethyl Acetate	4.713	43	11788	2.040	ug/l #	68
38) Carbon Tetrachloride	5.375	117	25472	4.857	ug/l #	18
43) Isopropyl Acetate	5.912	43	34829	4.152	ug/l	97
45) 1,2-Dichloropropane	7.038	63	2362	0.695	ug/l #	44
48) Methyl methacrylate	6.893	41	10449	2.775	ug/l #	13
49) 1,4-Dioxane	7.038	88	204	2.424	ug/l #	1
51) 4-Methyl-2-Pentanone	7.793	43	11459	2.104	ug/l	96
54) cis-1,3-Dichloropropene	7.739	75	52386	9.130	ug/l #	62
56) Ethyl methacrylate	8.468	69	273	2.659	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	32980	5.500	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.468	63	48	29.791	ug/l #	47
59) 2-Hexanone	8.729	43	468259	104.729	ug/l #	50
74) N-amyl acetate	10.243	43	1170	2.637	ug/l #	47
76) 1,2,3-Trichloropropane	10.632	75	99054	15.319	ug/l #	47
81) trans-1,4-Dichloro-2-b...	10.632	75	99054	55.621	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.471	105	1479	1.306	ug/l	83
89) n-Butylbenzene	12.211	91	452	2.223	ug/l #	56
95) Naphthalene	14.092	128	7096	2.959	ug/l	100

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

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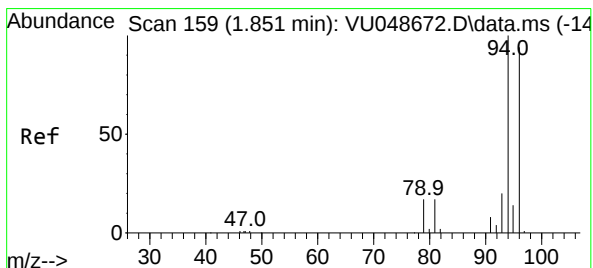
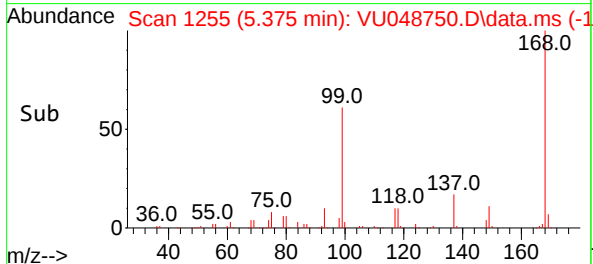
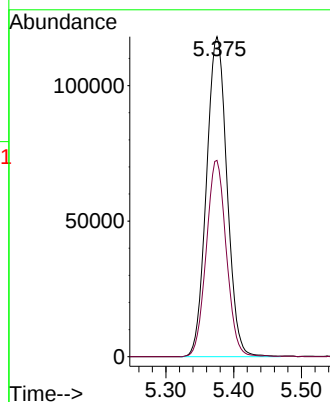
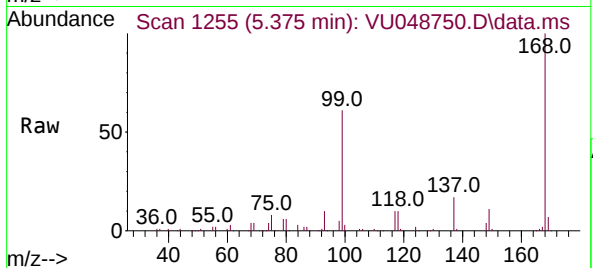




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

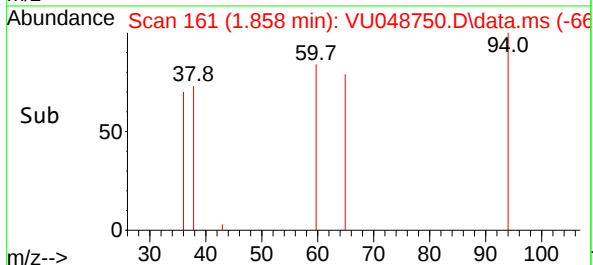
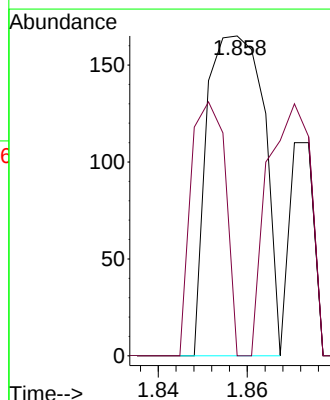
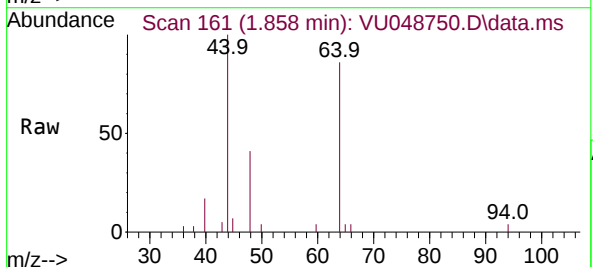
Instrument :
MSVOA_U
ClientSampleId :
WC-5

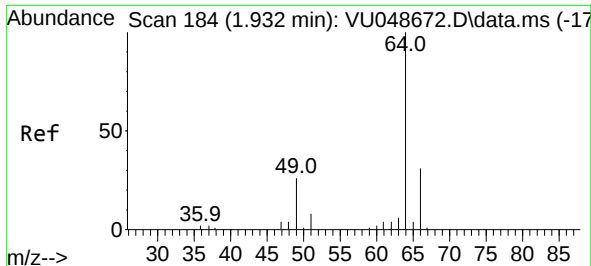
Tgt Ion:168 Resp: 248325
Ion Ratio Lower Upper
168 100
99 61.3 49.3 73.9



#5
Bromomethane
Concen: Below Cal
RT: 1.858 min Scan# 161
Delta R.T. 0.007 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 94 Resp: 146
Ion Ratio Lower Upper
94 100
96 0.0 75.1 112.7#

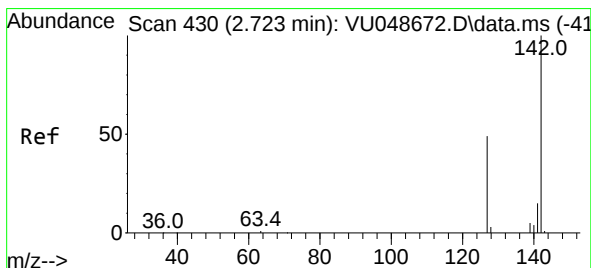
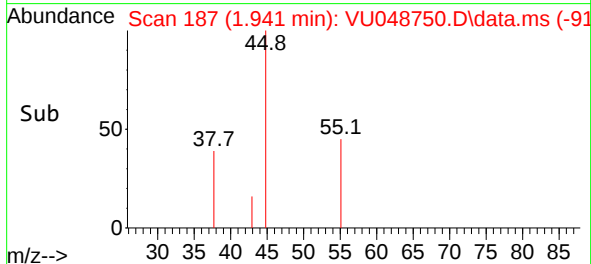
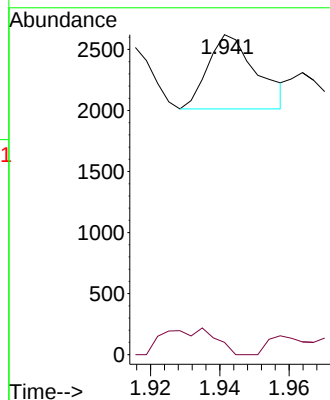
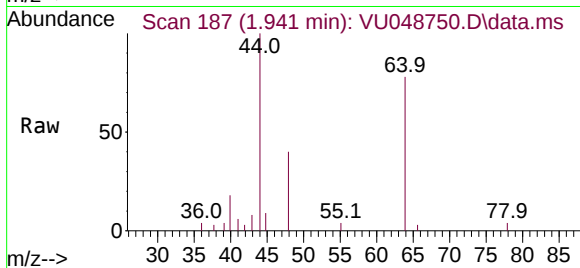




#6
Chloroethane
Concen: Below Cal
RT: 1.941 min Scan# 11
Delta R.T. 0.009 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

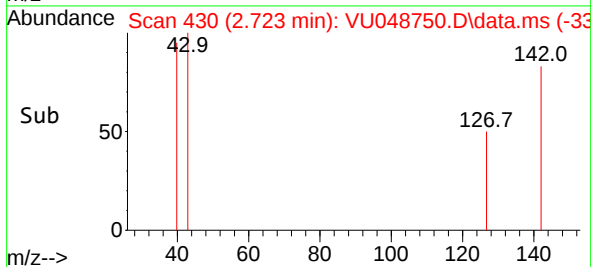
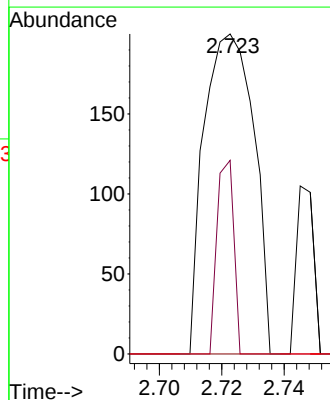
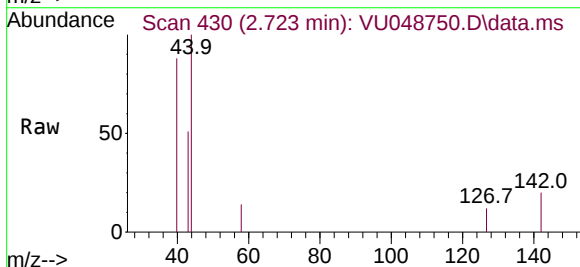
Instrument :
MSVOA_U
ClientSampleId :
WC-5

Tgt Ion: 64 Resp: 592
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#



#10
Methyl Iodide
Concen: 3.057 ug/l
RT: 2.723 min Scan# 430
Delta R.T. -0.000 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 142 Resp: 221
Ion Ratio Lower Upper
142 100
127 20.4 38.4 57.6#
141 0.0 11.5 17.3#

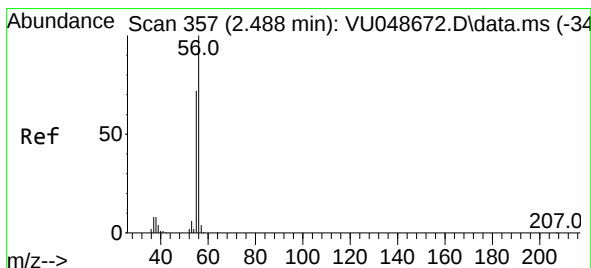
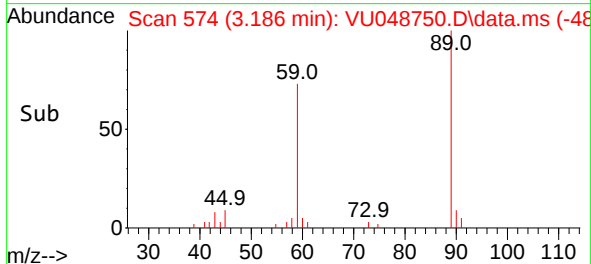
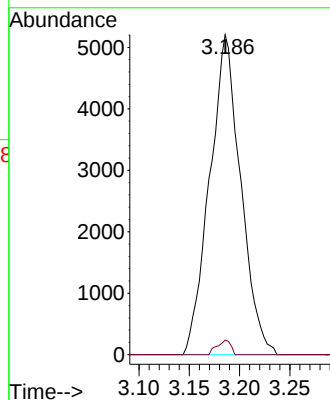
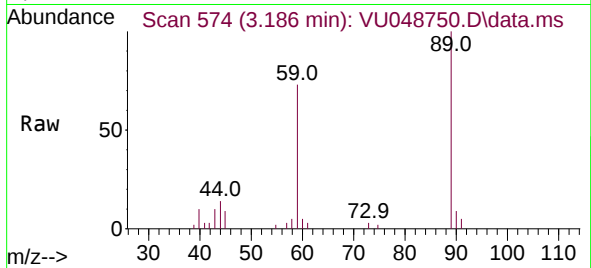




#11
Tert butyl alcohol
Concen: 11.829 ug/l
RT: 3.186 min Scan# 511
Delta R.T. -0.003 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

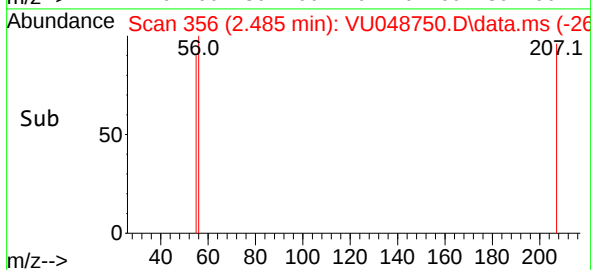
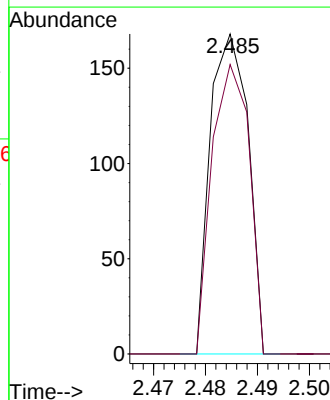
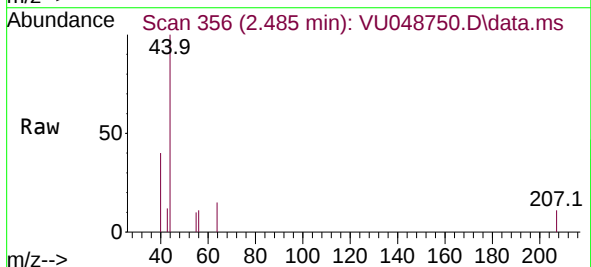
Instrument :
MSVOA_U
ClientSampleId :
WC-5

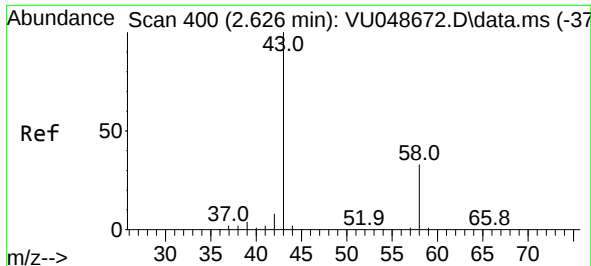
Tgt Ion: 59 Resp: 11184
Ion Ratio Lower Upper
59 100
57 2.0 39.7 59.5#



#13
Acrolein
Concen: Below Cal
RT: 2.485 min Scan# 356
Delta R.T. -0.003 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 56 Resp: 85
Ion Ratio Lower Upper
56 100
55 89.4 57.7 86.5#

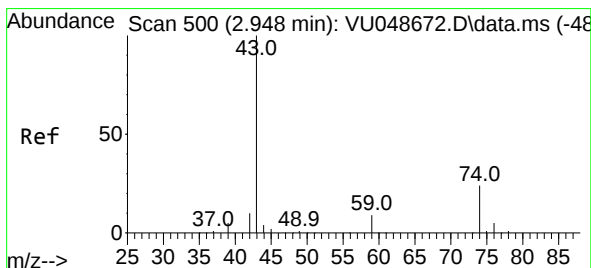
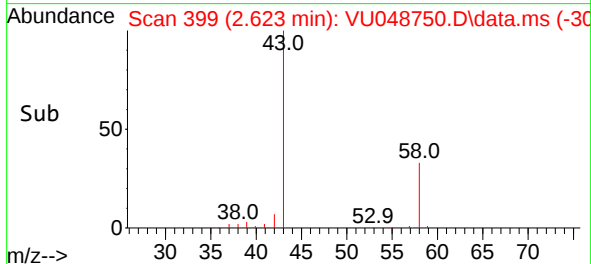
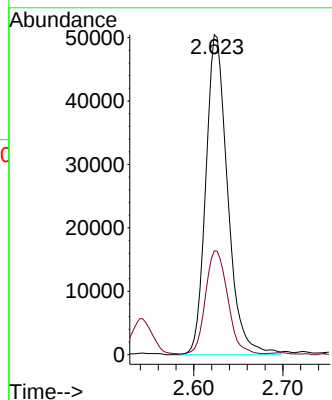
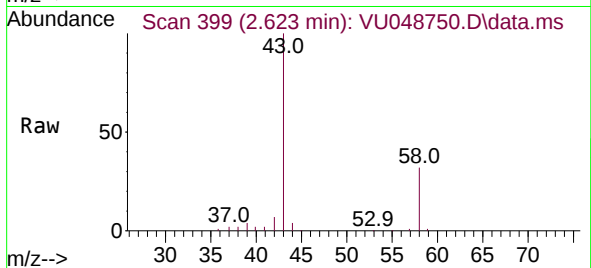




#16
Acetone
Concen: 45.241 ug/l
RT: 2.623 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

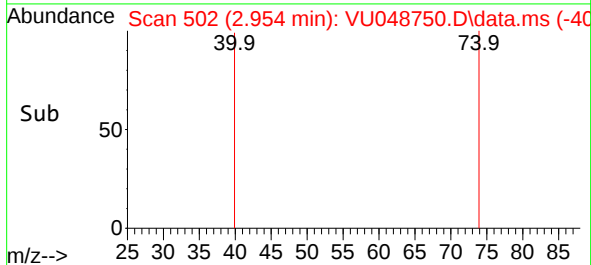
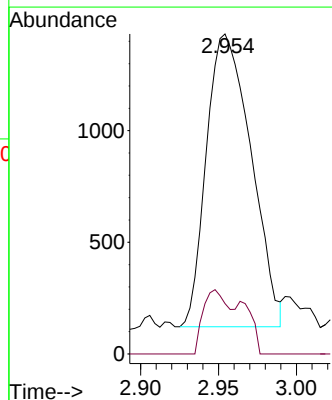
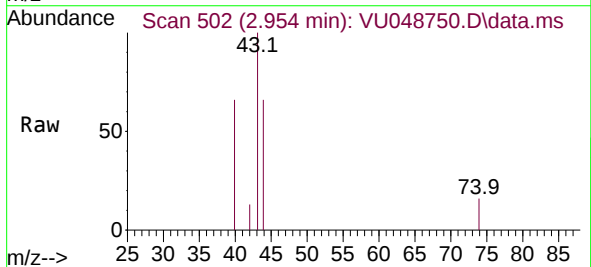
Instrument :
MSVOA_U
ClientSampleId :
WC-5

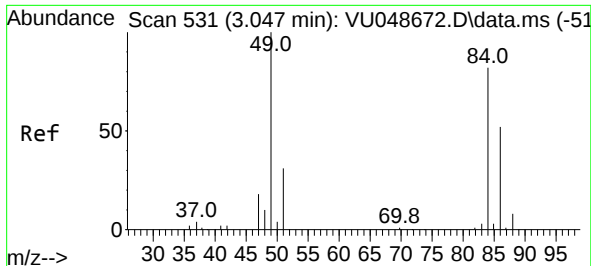
Tgt Ion: 43 Resp: 85984
Ion Ratio Lower Upper
43 100
58 32.2 26.3 39.5



#18
Methyl Acetate
Concen: 0.547 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.006 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 43 Resp: 2612
Ion Ratio Lower Upper
43 100
74 11.9 19.2 28.8#

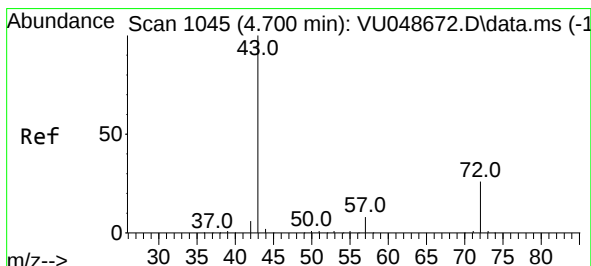
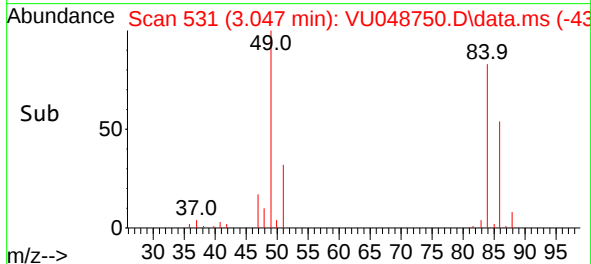
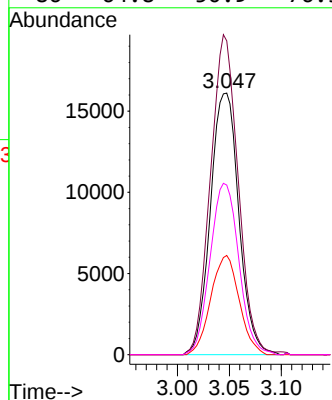
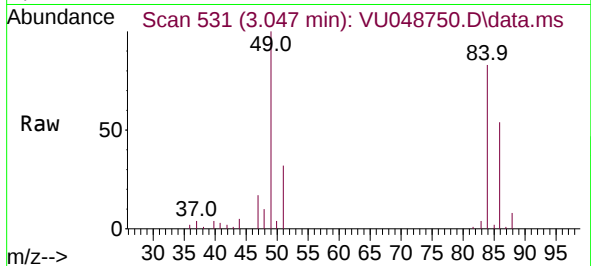




#20
Methylene Chloride
Concen: 9.501 ug/l
RT: 3.047 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

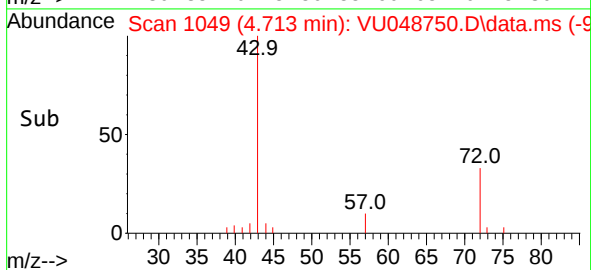
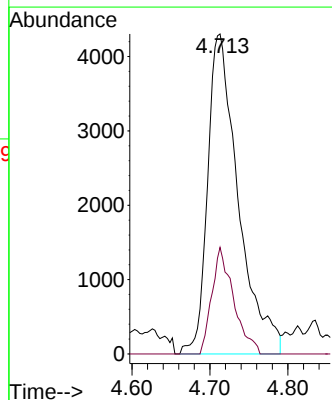
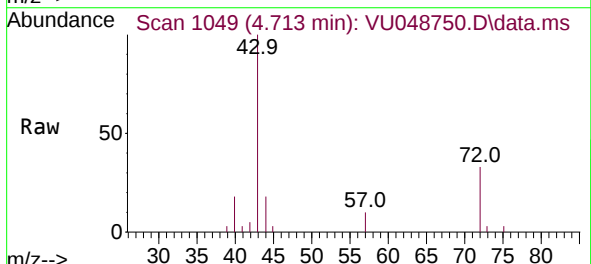
Instrument :
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ClientSampleId :
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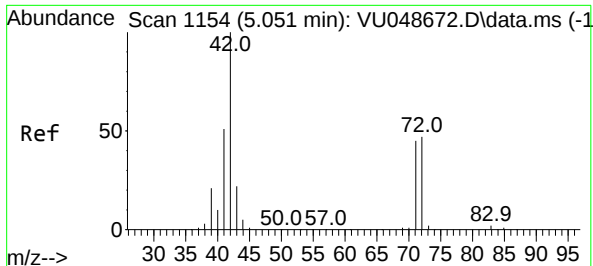
Tgt Ion:	84	Resp:	30707
Ion	Ratio	Lower	Upper
84	100		
49	119.9	97.0	145.4
51	37.9	29.8	44.8
86	64.8	50.9	76.3



#25
2-Butanone
Concen: 4.317 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. 0.013 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion:	43	Resp:	11788
Ion	Ratio	Lower	Upper
43	100		
72	33.3	21.1	31.7#





#29

Tetrahydrofuran

Concen: 0.481 ug/l

RT: 5.063 min Scan# 1158

Delta R.T. 0.013 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

WC-5

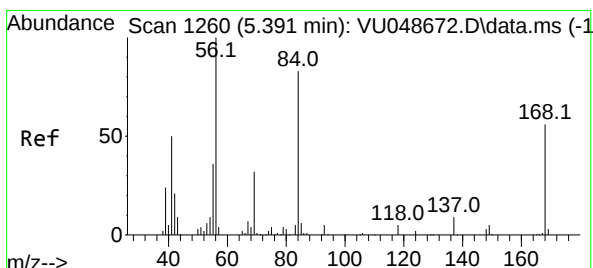
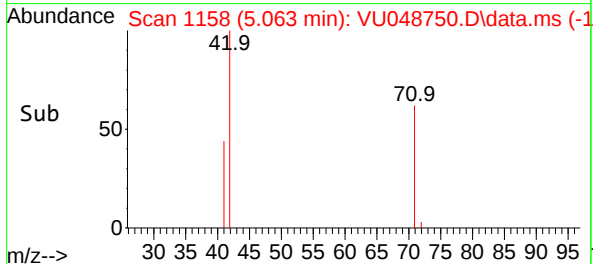
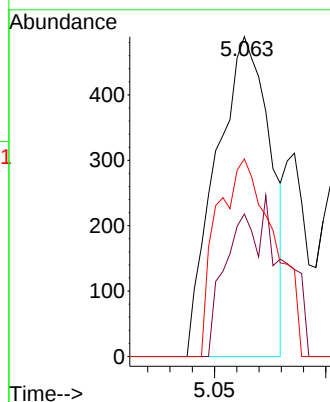
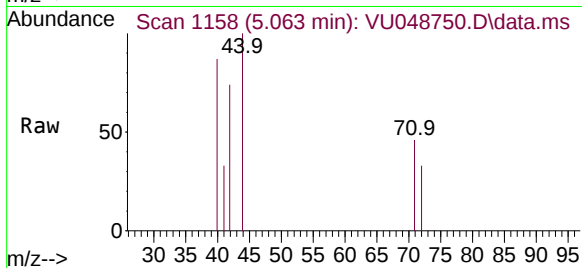
Tgt Ion: 42 Resp: 828

Ion Ratio Lower Upper

42 100

72 27.1 37.6 56.4#

71 65.0 35.0 52.4#



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.019 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

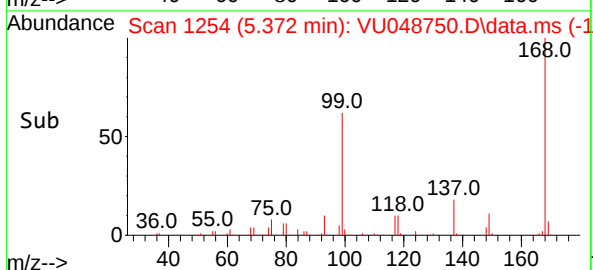
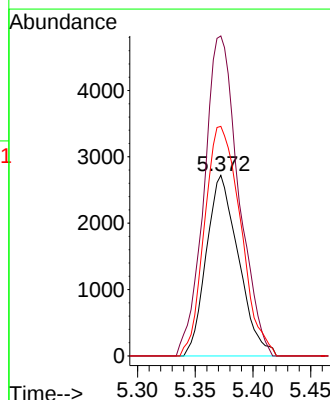
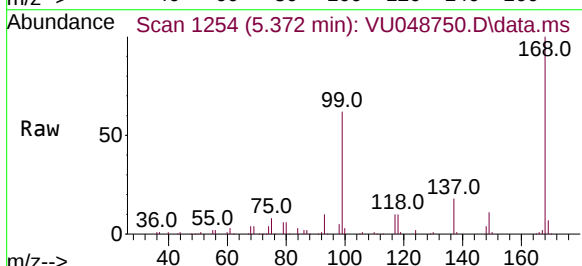
Tgt Ion: 56 Resp: 5275

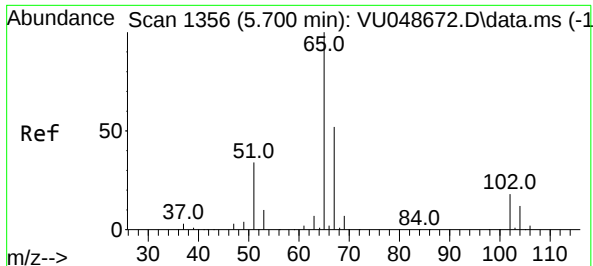
Ion Ratio Lower Upper

56 100

69 177.2 25.6 38.4#

84 127.2 66.2 99.4#





#33

1,2-Dichloroethane-d4

Concen: 51.134 ug/l

RT: 5.703 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

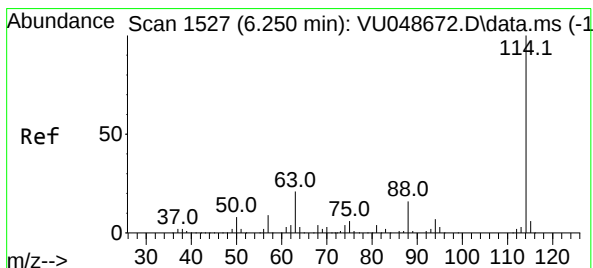
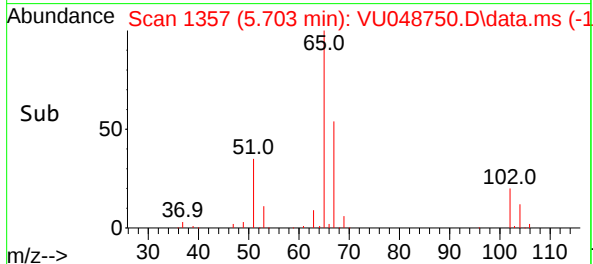
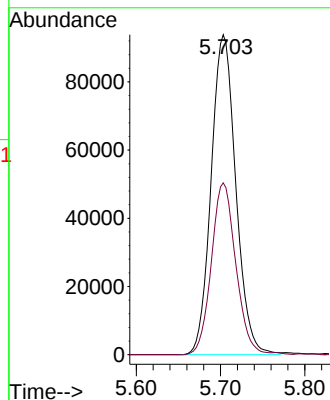
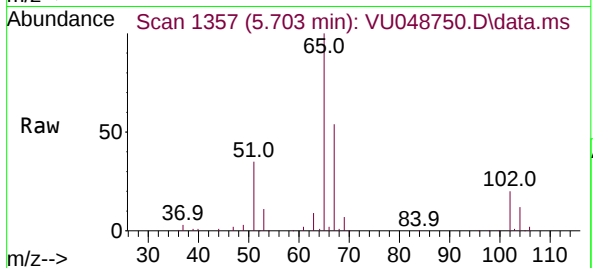
WC-5

Tgt Ion: 65 Resp: 190696

Ion Ratio Lower Upper

65 100

67 53.0 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. -0.000 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

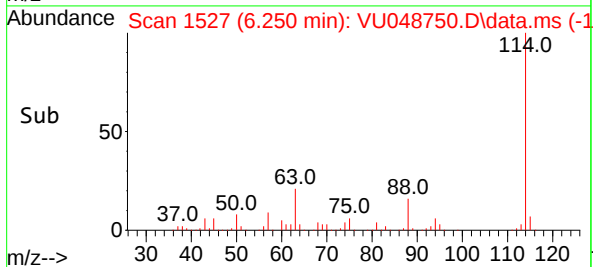
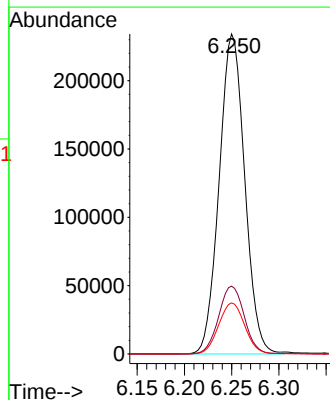
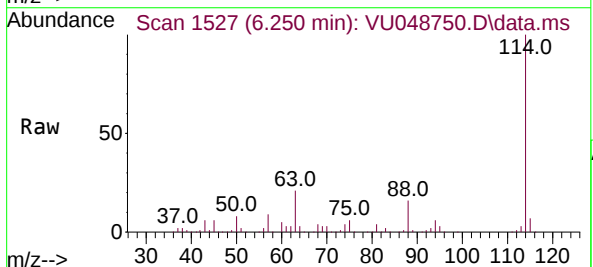
Tgt Ion: 114 Resp: 439020

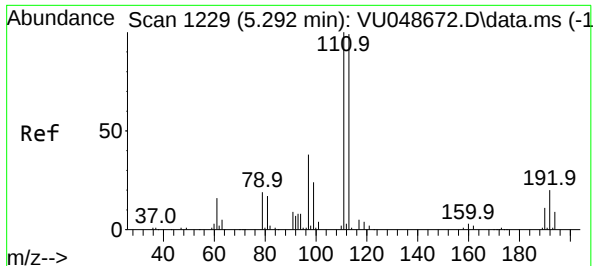
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

88 16.0 0.0 32.2

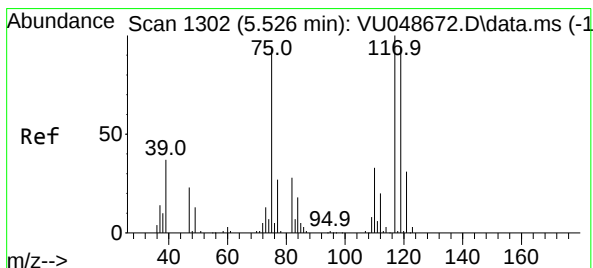
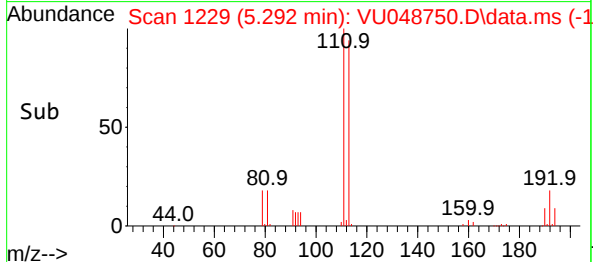
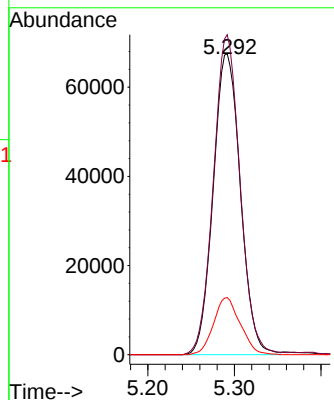
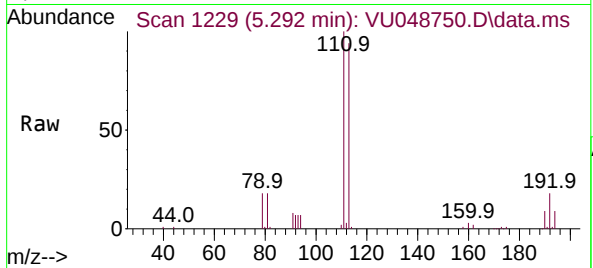




#35
Dibromofluoromethane
Concen: 46.996 ug/l
RT: 5.292 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

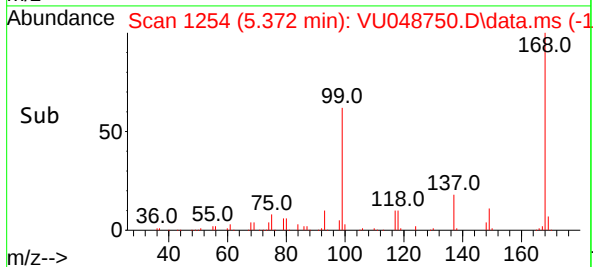
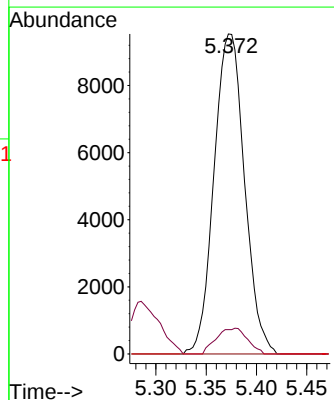
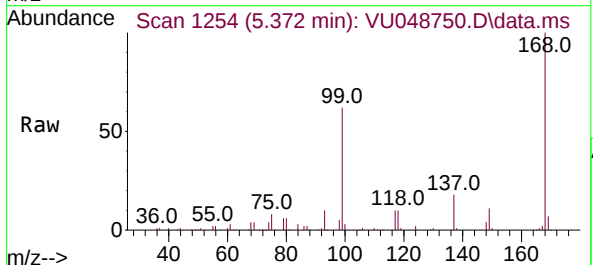
Instrument :
MSVOA_U
ClientSampleId :
WC-5

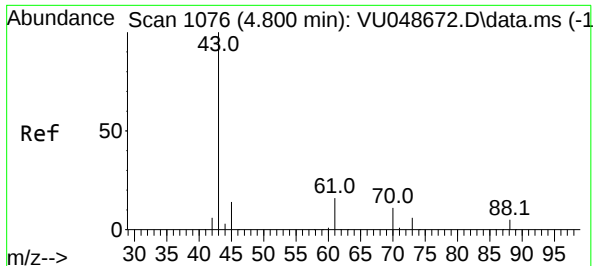
Tgt Ion:113 Resp: 147194
Ion Ratio Lower Upper
113 100
111 104.3 80.7 121.1
192 18.6 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.398 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 75 Resp: 20105
Ion Ratio Lower Upper
75 100
110 8.2 17.4 52.3#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 2.040 ug/l

RT: 4.713 min Scan# 1

Delta R.T. -0.087 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

WC-5

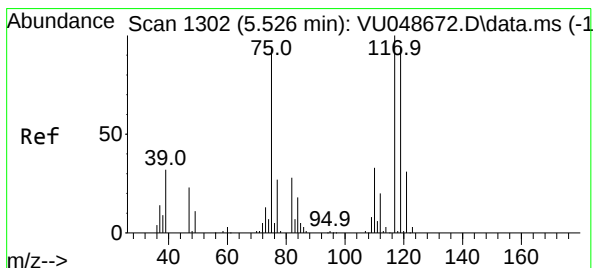
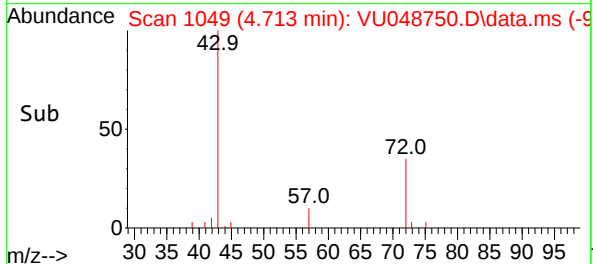
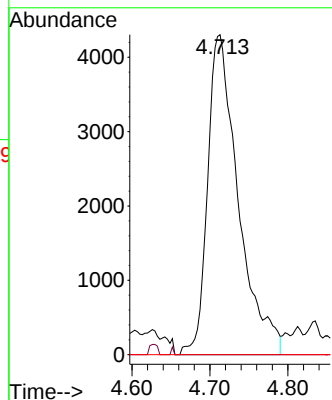
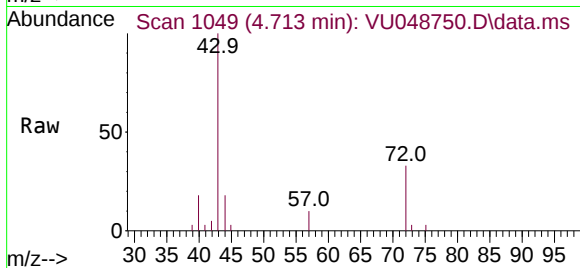
Tgt Ion: 43 Resp: 11788

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

70 0.0 8.4 12.6#



#38

Carbon Tetrachloride

Concen: 4.857 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

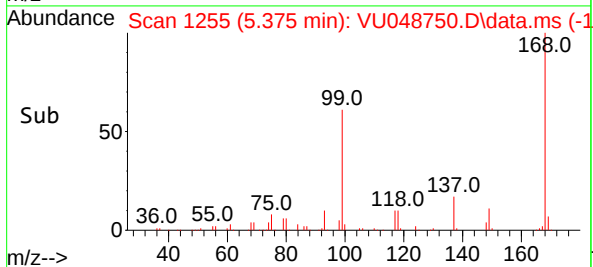
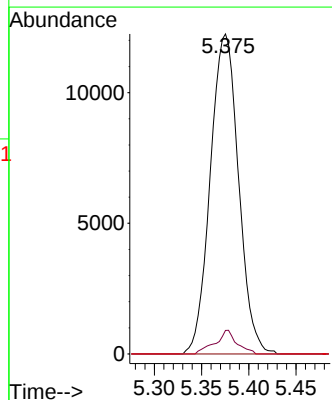
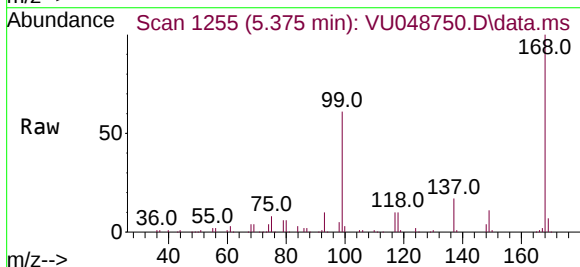
Tgt Ion: 117 Resp: 25472

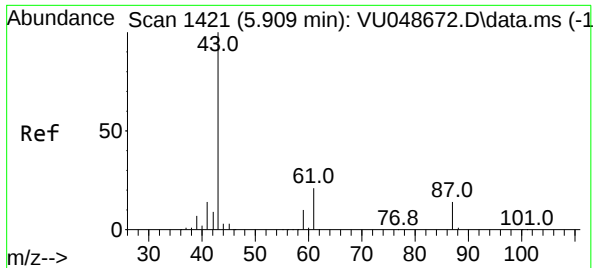
Ion Ratio Lower Upper

117 100

119 7.3 75.4 113.2#

121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 4.152 ug/l

RT: 5.912 min Scan# 1421

Delta R.T. 0.003 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

WC-5

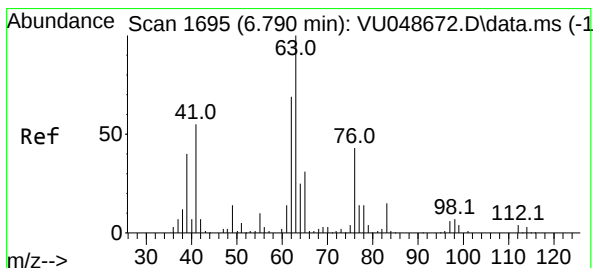
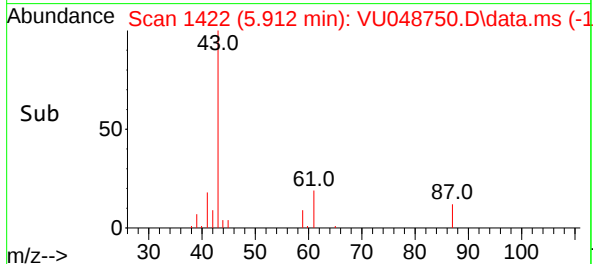
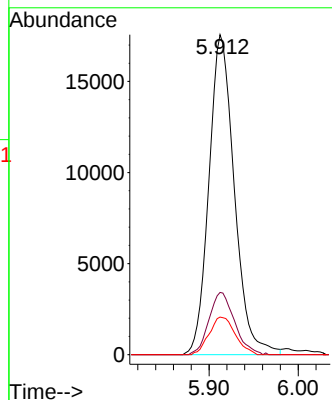
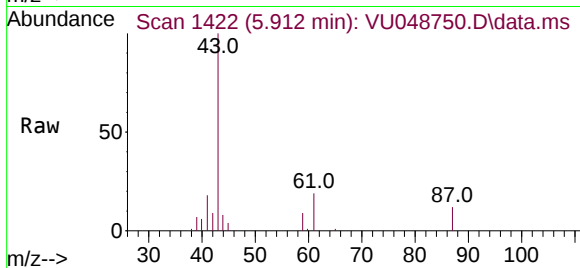
Tgt Ion: 43 Resp: 34829

Ion Ratio Lower Upper

43 100

61 19.6 16.7 25.1

87 12.1 10.9 16.3



#45

1,2-Dichloropropane

Concen: 0.695 ug/l

RT: 7.038 min Scan# 1772

Delta R.T. 0.248 min

Lab File: VU048750.D

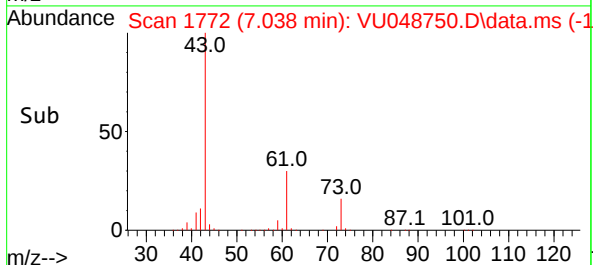
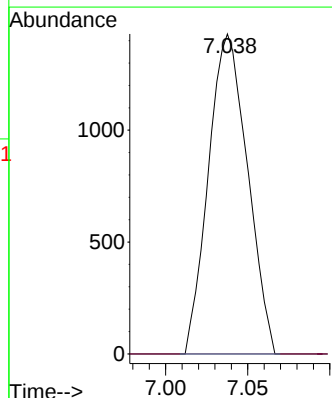
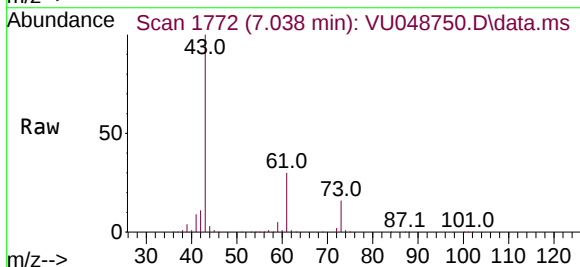
Acq: 31 May 2022 19:53

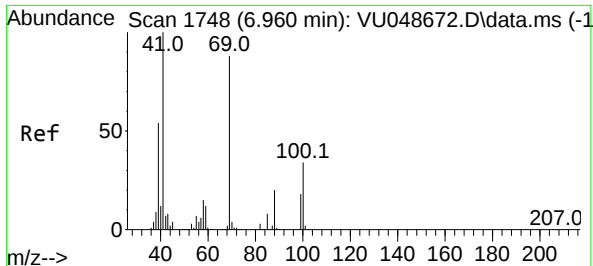
Tgt Ion: 63 Resp: 2362

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#





#48

Methyl methacrylate

Concen: 2.775 ug/l

RT: 6.893 min Scan# 1

Delta R.T. -0.068 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

WC-5

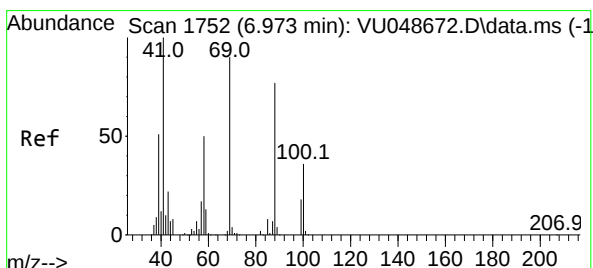
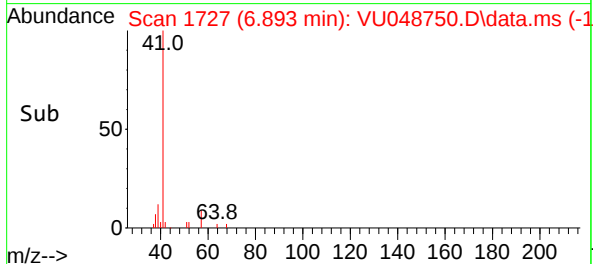
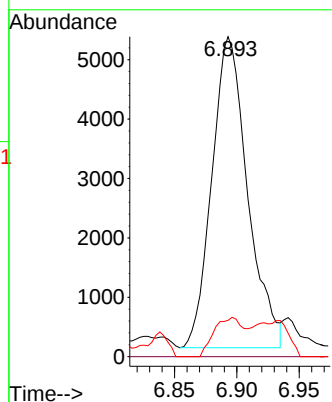
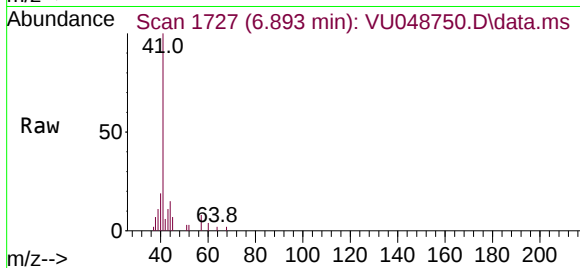
Tgt Ion: 41 Resp: 10449

Ion Ratio Lower Upper

41 100

69 0.0 70.7 106.1#

39 0.0 43.4 65.2#



#49

1,4-Dioxane

Concen: 2.424 ug/l

RT: 7.038 min Scan# 1772

Delta R.T. 0.064 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

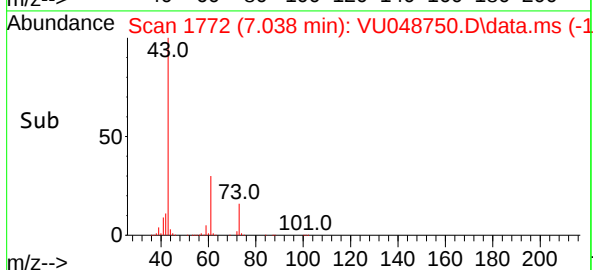
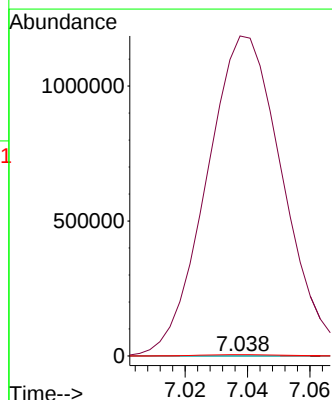
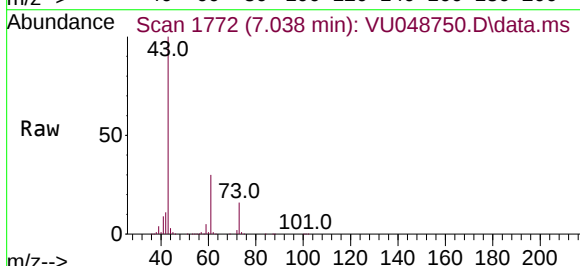
Tgt Ion: 88 Resp: 204

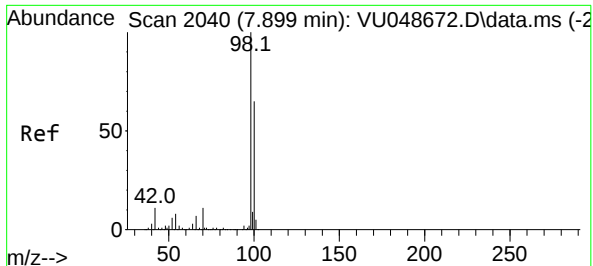
Ion Ratio Lower Upper

88 100

43 1007164.7 24.6 36.8#

58 4523.5 54.7 82.1#

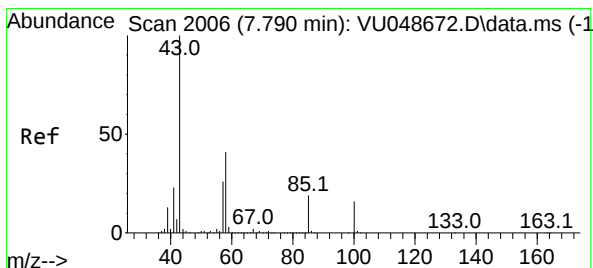
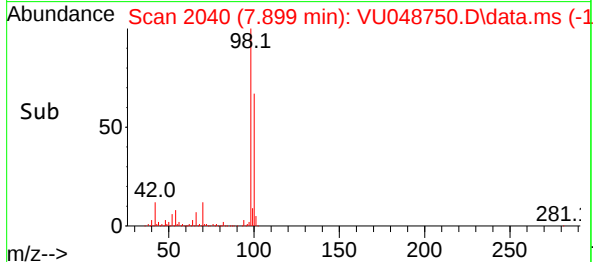
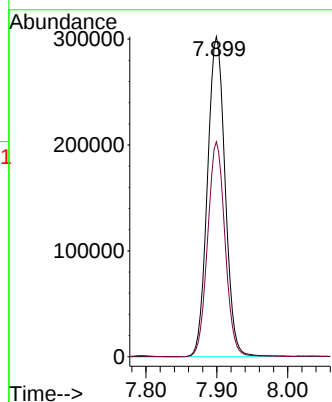
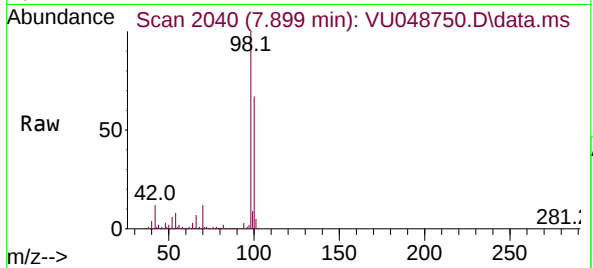




#50
Toluene-d8
Concen: 46.549 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. -0.000 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

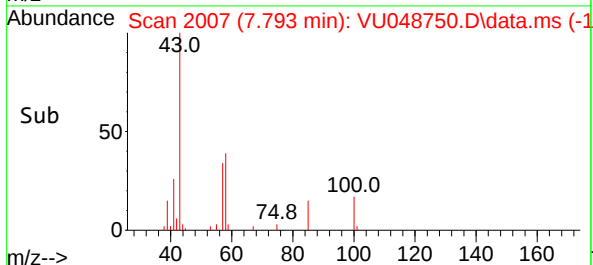
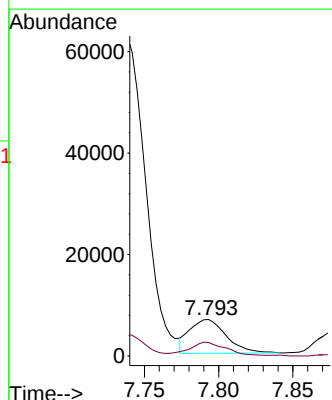
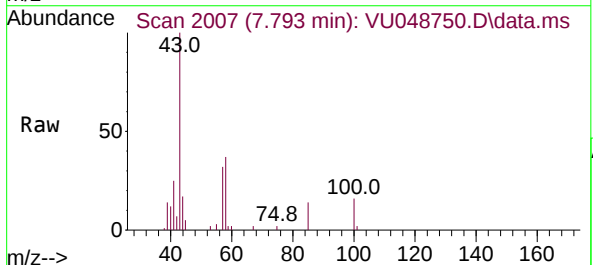
Instrument :
MSVOA_U
ClientSampleId :
WC-5

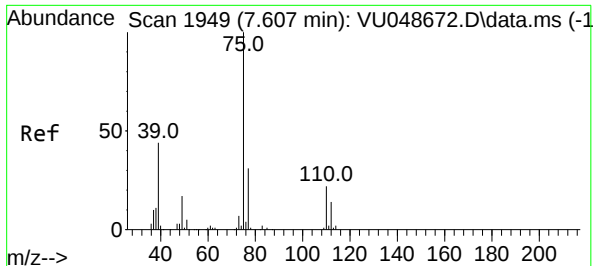
Tgt Ion: 98 Resp: 522622
Ion Ratio Lower Upper
98 100
100 66.3 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 2.104 ug/l
RT: 7.793 min Scan# 2007
Delta R.T. 0.003 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 43 Resp: 11459
Ion Ratio Lower Upper
43 100
58 38.6 32.7 49.1

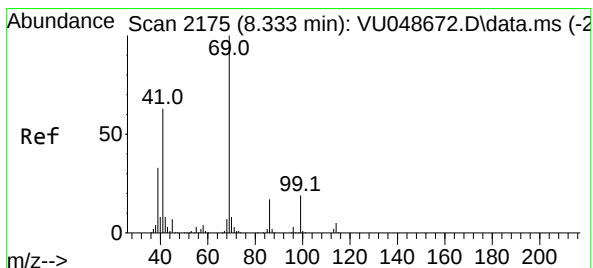
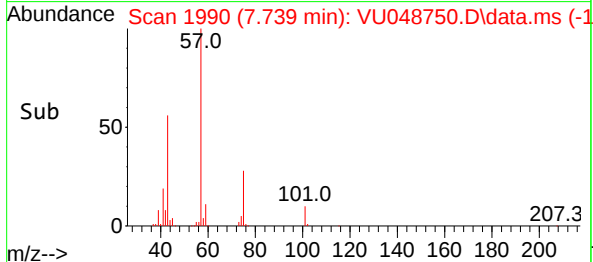
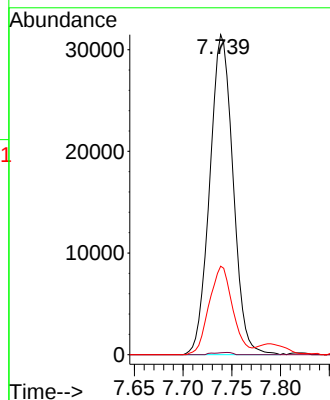
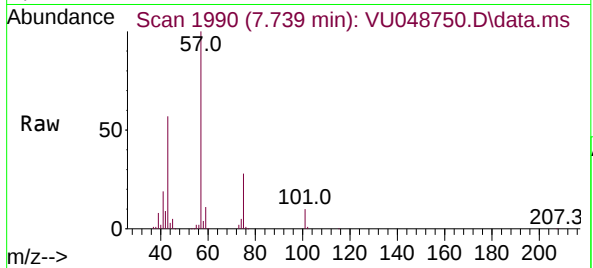




#54
cis-1,3-Dichloropropene
Concen: 9.130 ug/l
RT: 7.739 min Scan# 1949
Delta R.T. 0.132 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

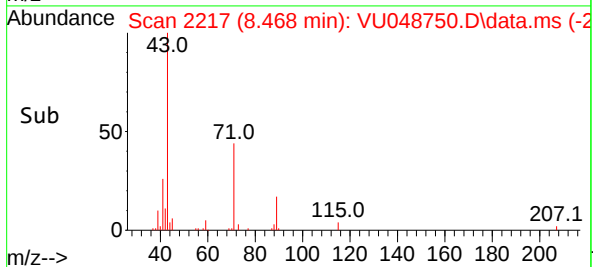
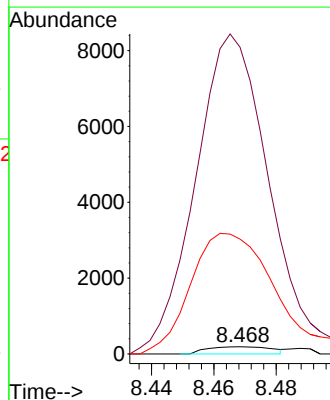
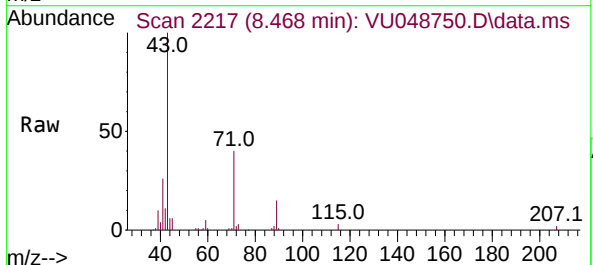
Instrument :
MSVOA_U
ClientSampleId :
WC-5

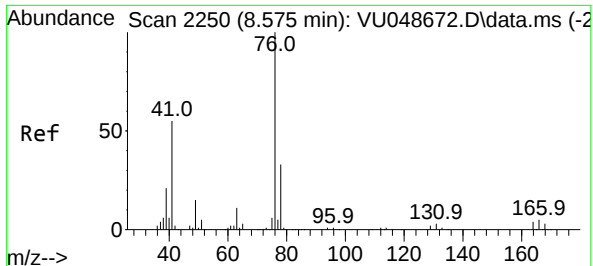
Tgt Ion: 75 Resp: 52386
Ion Ratio Lower Upper
75 100
77 0.6 24.9 37.3#
39 27.7 35.2 52.8#



#56
Ethyl methacrylate
Concen: 2.659 ug/l
RT: 8.468 min Scan# 2217
Delta R.T. 0.135 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 69 Resp: 273
Ion Ratio Lower Upper
69 100
41 5145.1 50.6 76.0#
39 2281.3 26.6 40.0#





#57

1,3-Dichloropropane

Concen: 5.500 ug/l

RT: 8.729 min Scan# 21

Delta R.T. 0.154 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

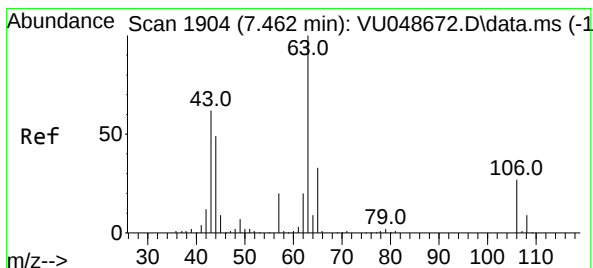
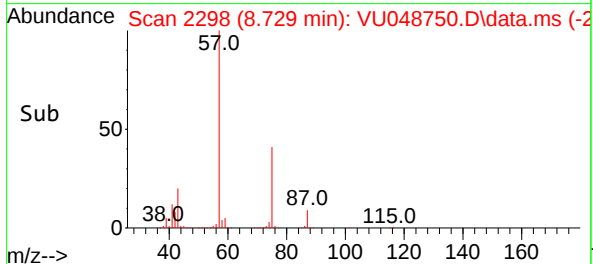
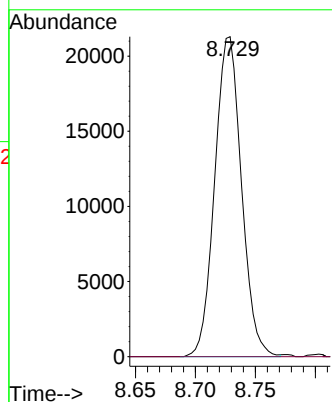
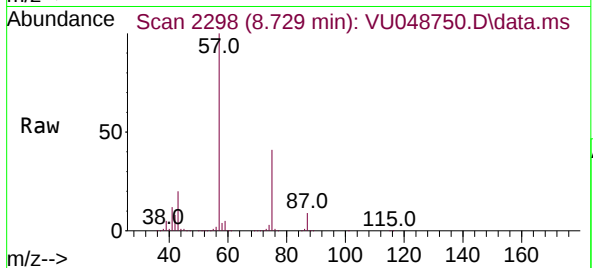
WC-5

Tgt Ion: 76 Resp: 32980

Ion Ratio Lower Upper

76 100

78 0.0 26.6 39.8#



#58

2-Chloroethyl Vinyl ether

Concen: 29.791 ug/l

RT: 7.468 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VU048750.D

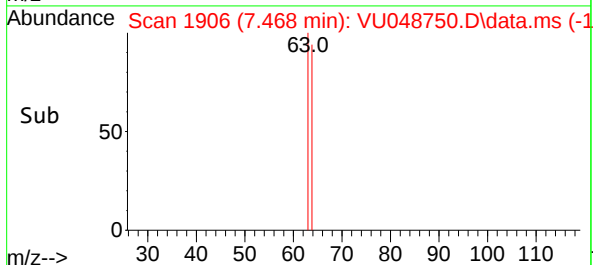
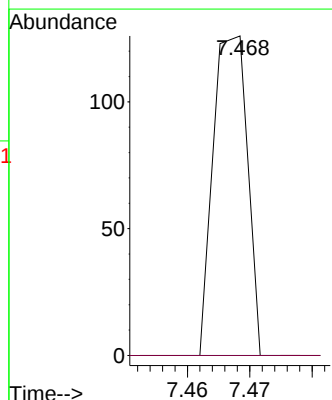
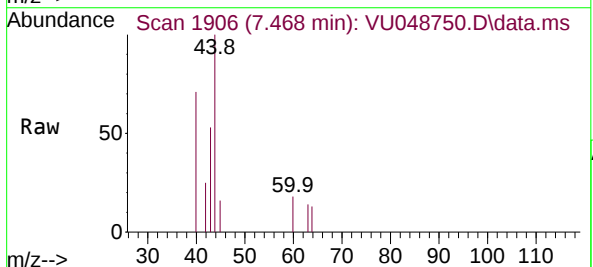
Acq: 31 May 2022 19:53

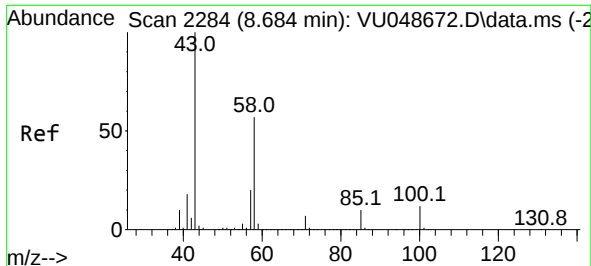
Tgt Ion: 63 Resp: 48

Ion Ratio Lower Upper

63 100

106 0.0 22.2 33.2#

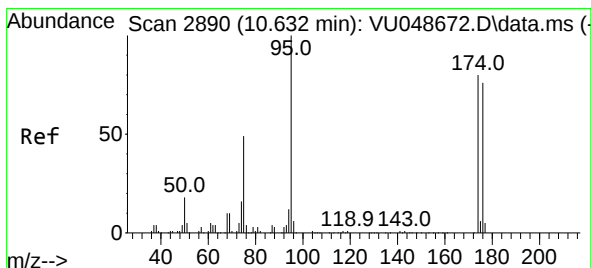
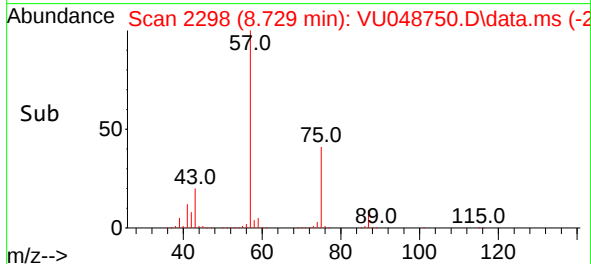
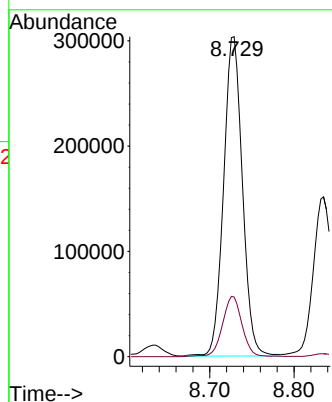
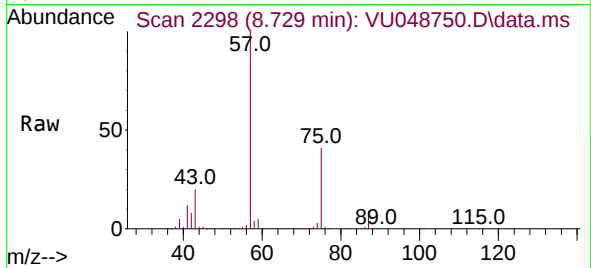




#59
2-Hexanone
Concen: 104.729 ug/l
RT: 8.729 min Scan# 21
Delta R.T. 0.045 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

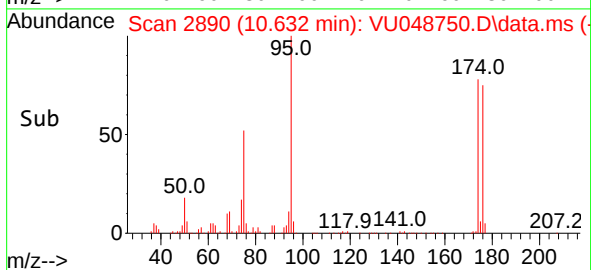
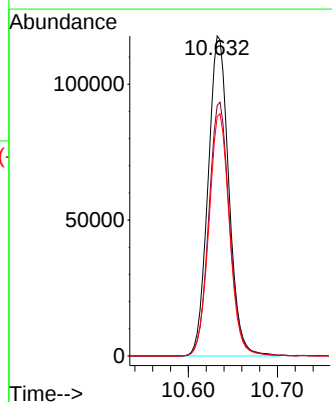
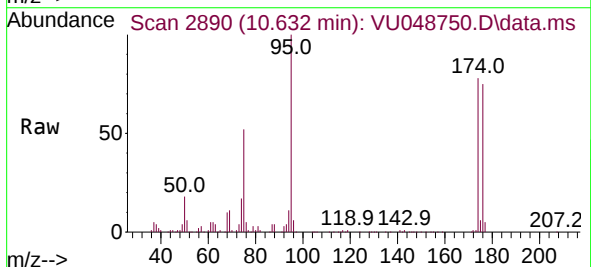
Instrument :
MSVOA_U
ClientSampleId :
WC-5

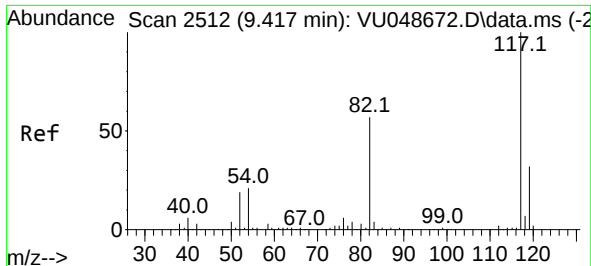
Tgt Ion: 43 Resp: 468259
Ion Ratio Lower Upper
43 100
58 19.7 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 44.863 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.000 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 95 Resp: 190490
Ion Ratio Lower Upper
95 100
174 79.5 0.0 159.4
176 75.1 0.0 152.4

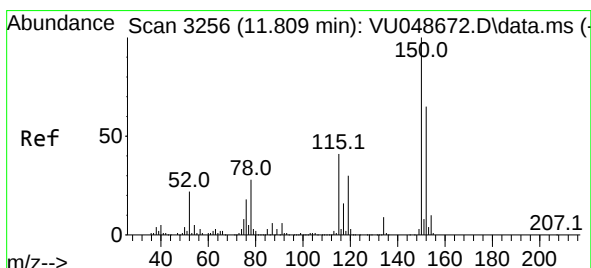
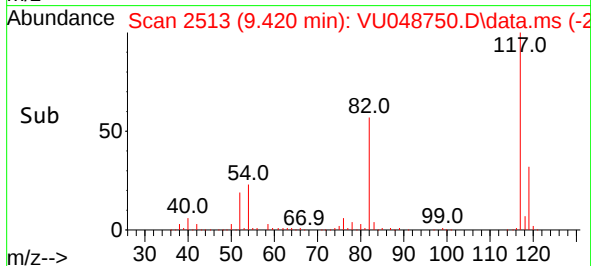
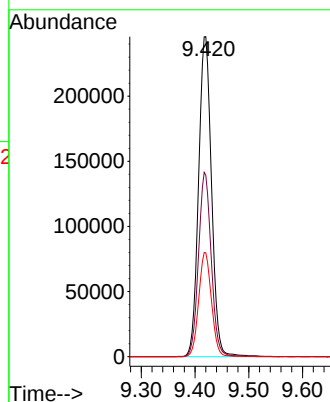
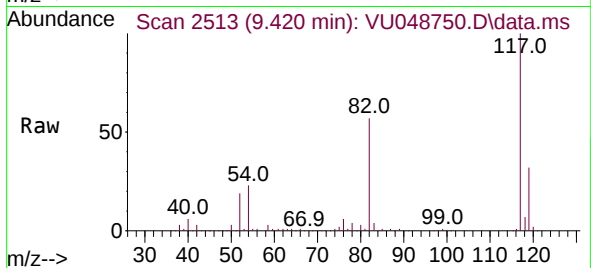




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

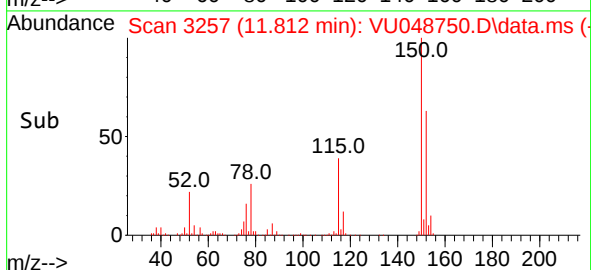
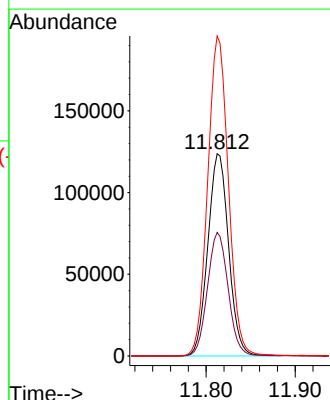
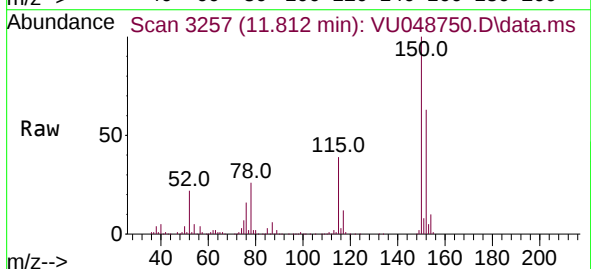
Instrument :
MSVOA_U
ClientSampleId :
WC-5

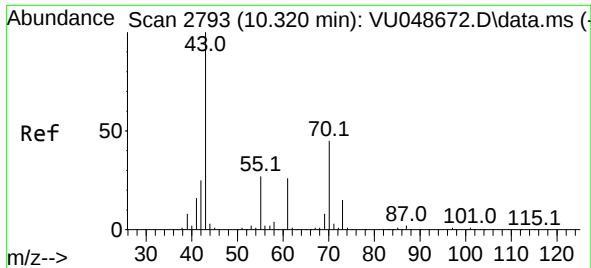
Tgt Ion:117 Resp: 410584
Ion Ratio Lower Upper
117 100
82 56.7 45.3 67.9
119 32.4 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. 0.003 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion:152 Resp: 200546
Ion Ratio Lower Upper
152 100
115 60.7 41.8 125.4
150 157.4 0.0 341.0

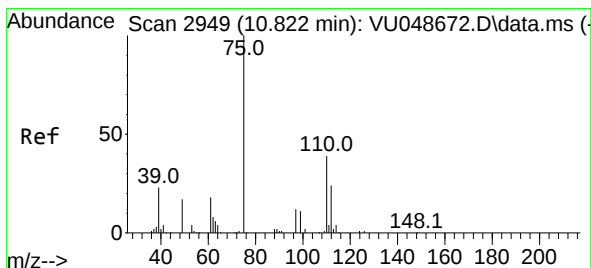
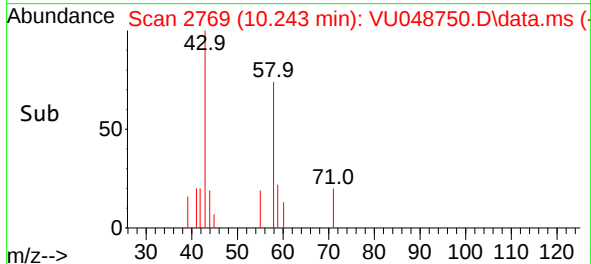
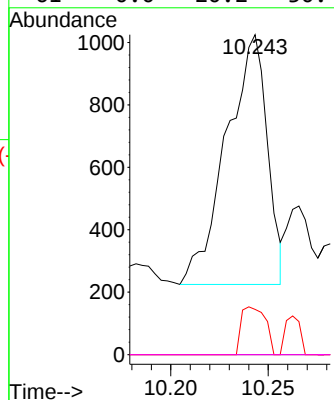
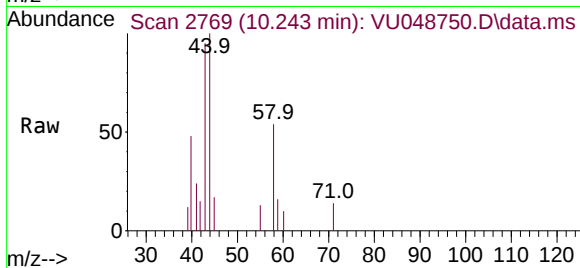




#74
N-amy1 acetate
Concen: 2.637 ug/l
RT: 10.243 min Scan# 21
Delta R.T. -0.077 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

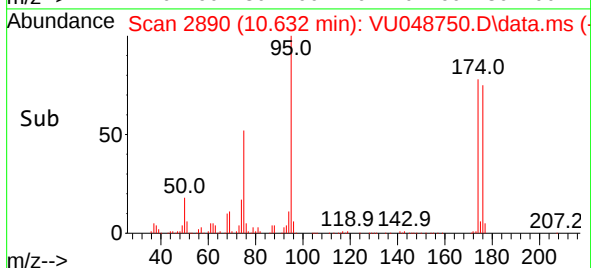
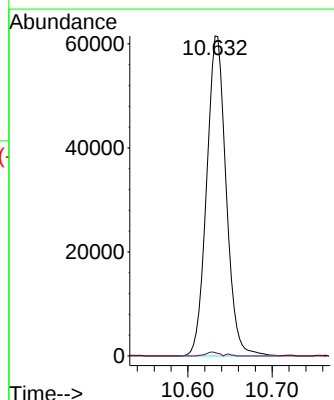
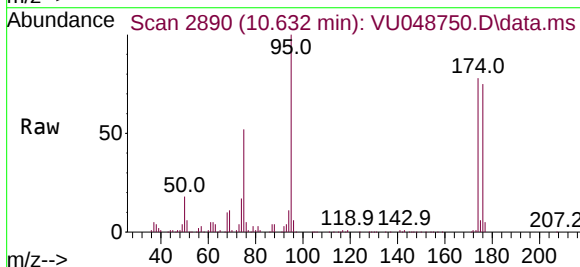
Instrument :
MSVOA_U
ClientSampleId :
WC-5

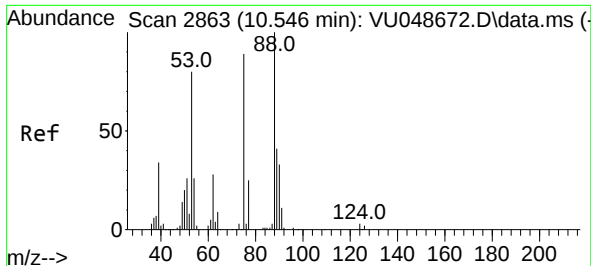
Tgt Ion: 43	Resp: 1170
Ion Ratio	Lower Upper
43 100	
70 0.0	35.8 53.6#
55 11.3	21.1 31.7#
61 0.0	20.2 30.4#



#76
1,2,3-Trichloropropane
Concen: 15.319 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.190 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 75	Resp:	99054	
Ion Ratio	Lower	Upper	
75 100			
77 0.8	14.8	44.3#	

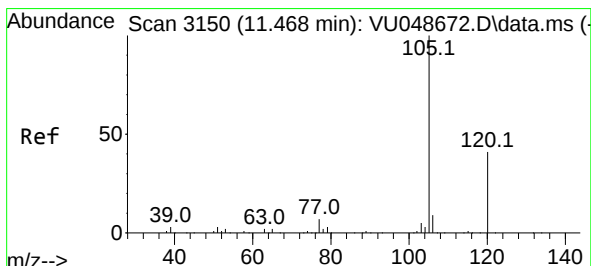
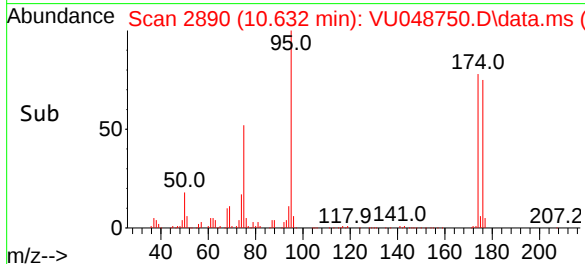
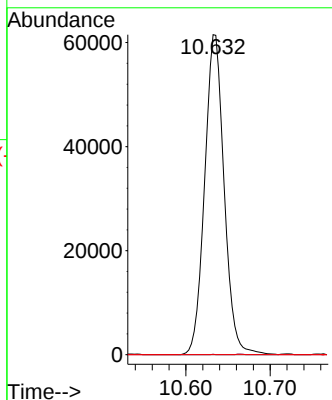
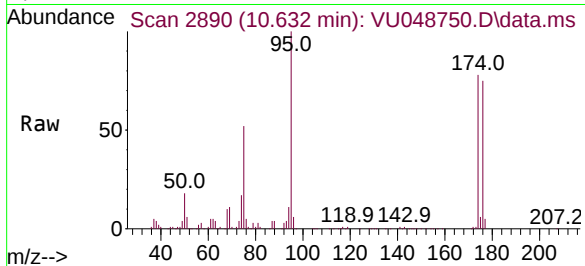




#81
trans-1,4-Dichloro-2-butene
Concen: 55.621 ug/l
RT: 10.632 min Scan# 2863
Delta R.T. 0.087 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

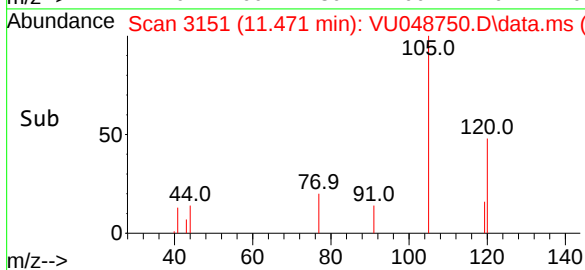
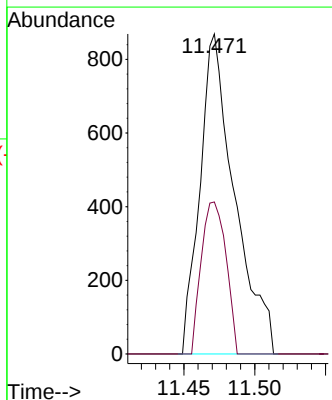
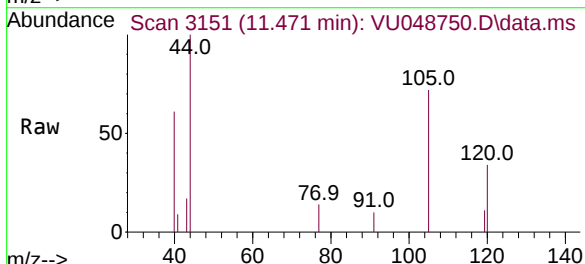
Instrument :
MSVOA_U
ClientSampleId :
WC-5

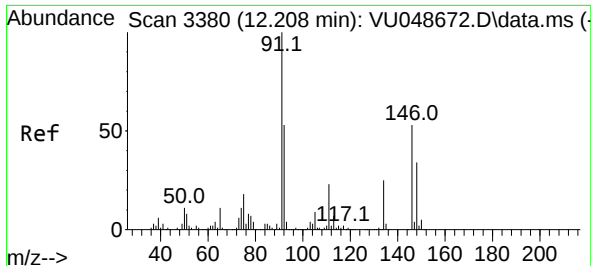
Tgt Ion: 75 Resp: 99054
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.306 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. 0.003 min
Lab File: VU048750.D
Acq: 31 May 2022 19:53

Tgt Ion: 105 Resp: 1479
Ion Ratio Lower Upper
105 100
120 33.8 22.5 67.5





#89

n-Butylbenzene

Concen: 2.223 ug/l

RT: 12.211 min Scan# 3381

Delta R.T. 0.003 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

WC-5

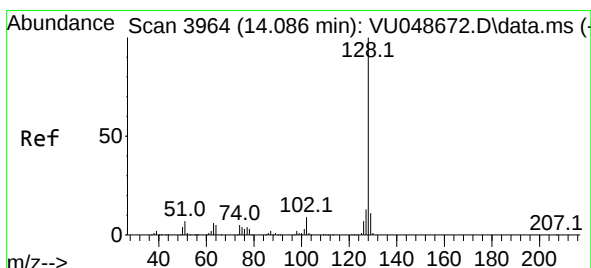
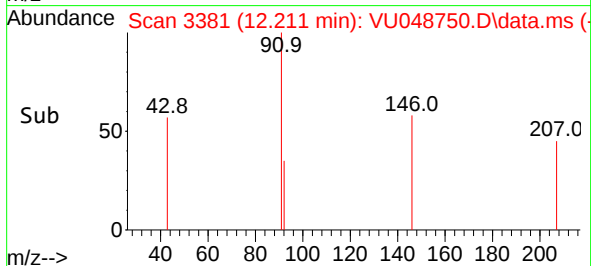
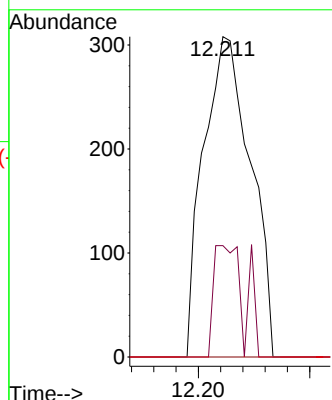
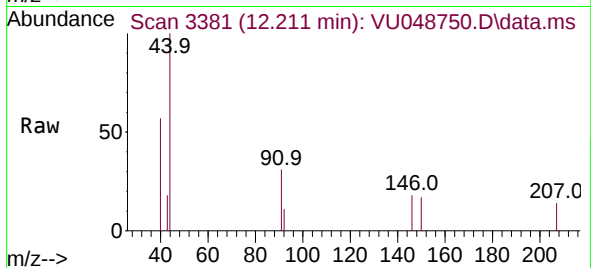
Tgt Ion: 91 Resp: 452

Ion Ratio Lower Upper

91 100

92 22.6 25.9 77.8#

134 0.0 12.5 37.5#



#95

Naphthalene

Concen: 2.959 ug/l

RT: 14.092 min Scan# 3966

Delta R.T. 0.006 min

Lab File: VU048750.D

Acq: 31 May 2022 19:53

Tgt Ion:128 Resp: 7096

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

129 11.1 8.7 13.1

