

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U060222\
 Data File : U048805.D
 Acq On : 02 Jun 2022 15:48
 Operator : SY/MD
 Sample : N3087-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

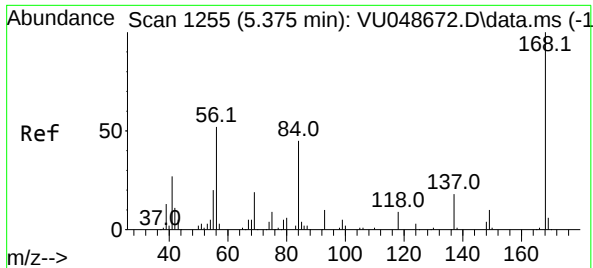
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-04

Quant Time: Jun 02 16:46:32 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	5.372	168	334050	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.247	114	557746	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	508353	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	259480	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.700	65	223120	44.475	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	88.940%		
35) Dibromofluoromethane	5.285	113	176017	44.236	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.480%		
50) Toluene-d8	7.896	98	669279	46.922	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	93.840%		
62) 4-Bromofluorobenzene	10.632	95	250514	46.440	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.880%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.858	94	212	Below Cal	#	3
6) Chloroethane	1.912	64	1050	Below Cal	#	46
10) Methyl Iodide	2.723	142	212	3.042	ug/l #	37
11) Tert butyl alcohol	3.182	59	1030	0.810	ug/l #	28
13) Acrolein	2.475	56	141	Below Cal	#	1
16) Acetone	2.626	43	7520	2.941	ug/l	93
25) 2-Butanone	4.716	43	6493	1.768	ug/l	97
30) Chloroform	5.086	83	1762	0.231	ug/l	85
31) Cyclohexane	5.369	56	7819	1.237	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	27407	4.719	ug/l #	49
37) Ethyl Acetate	4.716	43	6493	0.884	ug/l #	68
38) Carbon Tetrachloride	5.369	117	34162	5.127	ug/l #	16
39) Methylcyclohexane	6.761	83	1673	0.275	ug/l #	73
40) Benzene	5.774	78	27846	1.624	ug/l	98
51) 4-Methyl-2-Pentanone	7.796	43	1476	0.213	ug/l #	81
52) Toluene	7.967	92	23646	2.306	ug/l	98
56) Ethyl methacrylate	8.240	69	69	2.622	ug/l #	52
64) Tetrachloroethene	8.549	164	656	Below Cal	#	73
67) Ethyl Benzene	9.571	91	31444	1.734	ug/l	98
68) m/p-Xylenes	9.693	106	54314	7.658	ug/l	98
69) o-Xylene	10.099	106	20797	2.985	ug/l	97
74) N-amyl acetate	10.320	43	206	2.490	ug/l #	41
76) 1,2,3-Trichloropropane	10.632	75	125617	15.015	ug/l #	48
79) 2-Chlorotoluene	10.999	91	2882	0.232	ug/l #	43
80) 1,3,5-Trimethylbenzene	11.089	105	7727	0.530	ug/l	99
81) trans-1,4-Dichloro-2-b...	10.632	75	125617	54.516	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.468	105	26065	2.808	ug/l	96
85) sec-Butylbenzene	11.468	105	26065	1.490	ug/l #	58
89) n-Butylbenzene	12.201	91	1224	2.263	ug/l #	12
95) Naphthalene	14.092	128	21185	3.517	ug/l	97

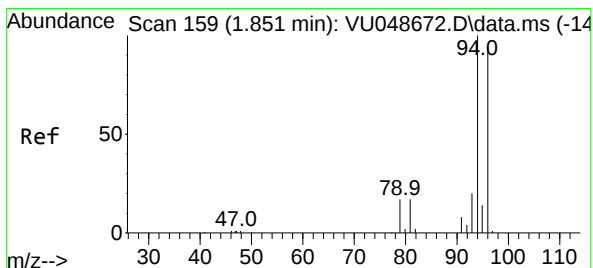
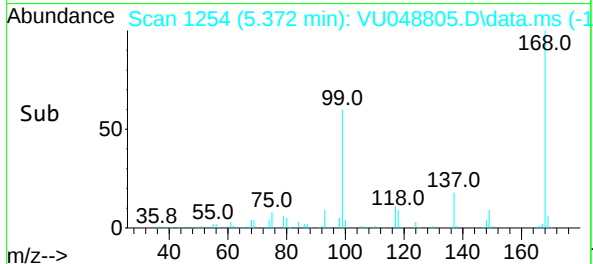
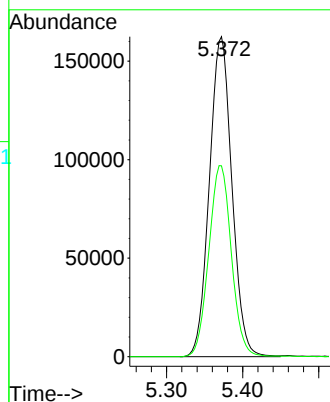
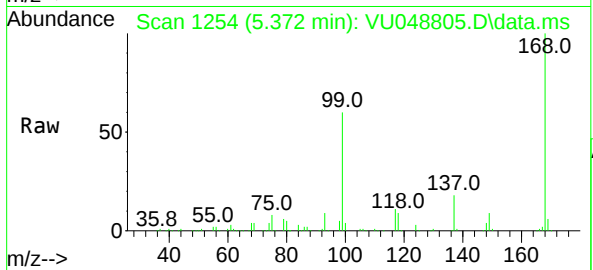
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

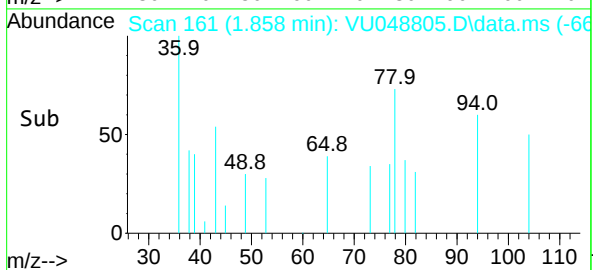
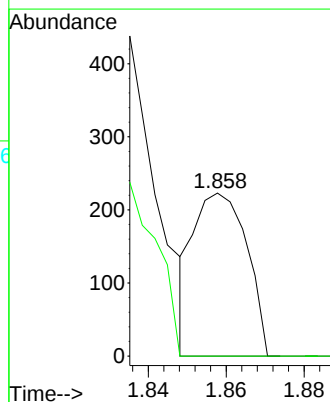
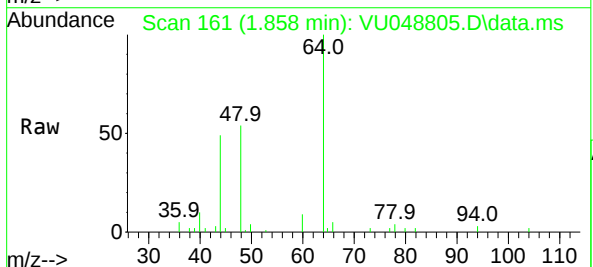
Instrument :
MSVOA_U
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MW-04

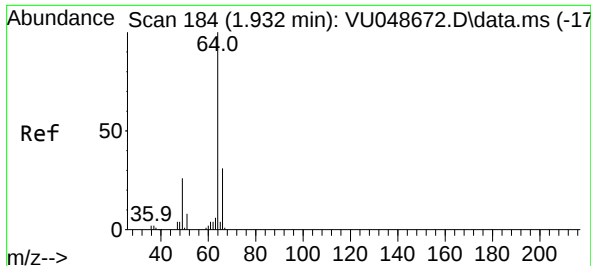
Tgt Ion:168 Resp: 334050
Ion Ratio Lower Upper
168 100
99 59.7 49.3 73.9



#5
Bromomethane
Concen: Below Cal
RT: 1.858 min Scan# 161
Delta R.T. 0.007 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 94 Resp: 212
Ion Ratio Lower Upper
94 100
96 0.0 75.1 112.7#

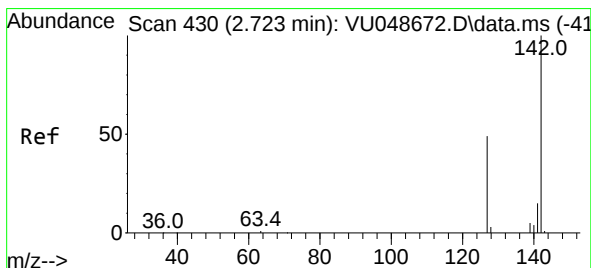
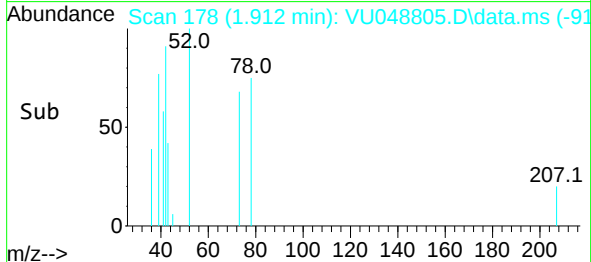
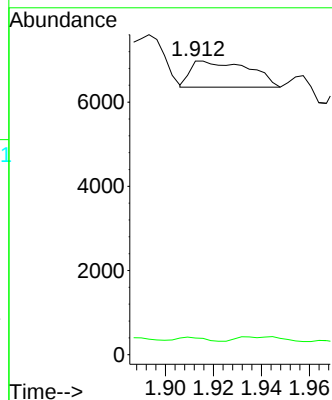
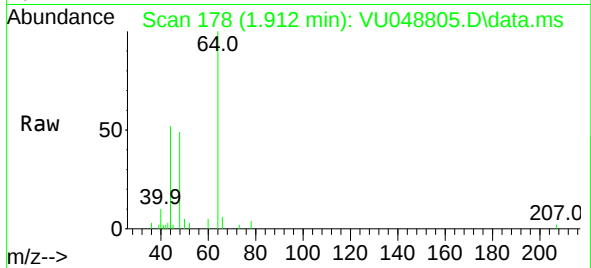




#6
Chloroethane
Concen: Below Cal
RT: 1.912 min Scan# 11
Delta R.T. -0.020 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

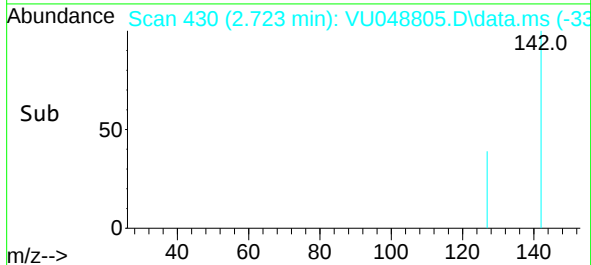
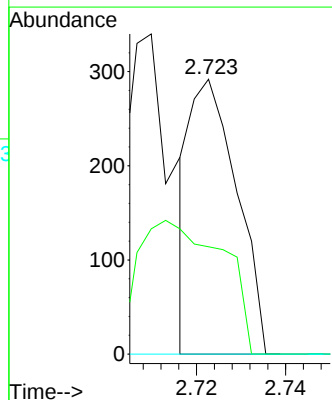
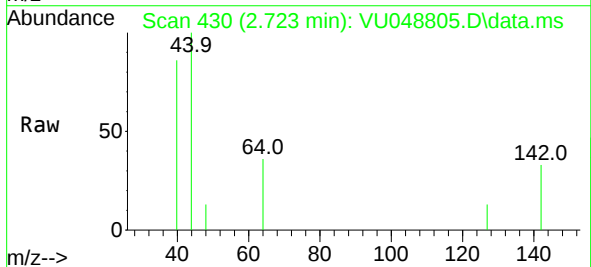
Instrument :
MSVOA_U
ClientSampleId :
MW-04

Tgt Ion: 64 Resp: 1050
Ion Ratio Lower Upper
64 100
66 1.5 25.2 37.8#



#10
Methyl Iodide
Concen: 3.042 ug/l
RT: 2.723 min Scan# 430
Delta R.T. -0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 142 Resp: 212
Ion Ratio Lower Upper
142 100
127 0.0 38.4 57.6#
141 0.0 11.5 17.3#





#11

Tert butyl alcohol

Concen: 0.810 ug/l

RT: 3.182 min Scan# 51

Delta R.T. -0.006 min

Lab File: VU048805.D

Acq: 02 Jun 2022 15:48

Instrument :

MSVOA_U

ClientSampleId :

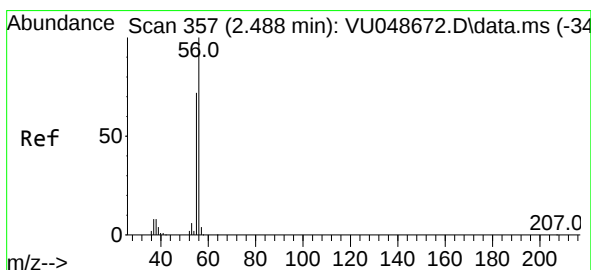
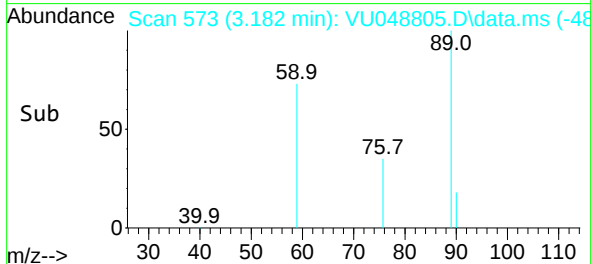
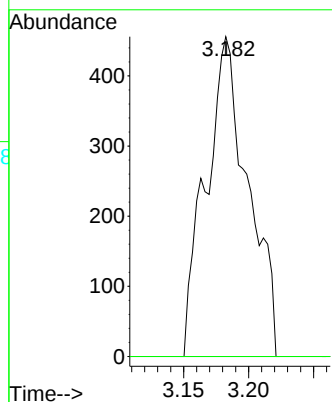
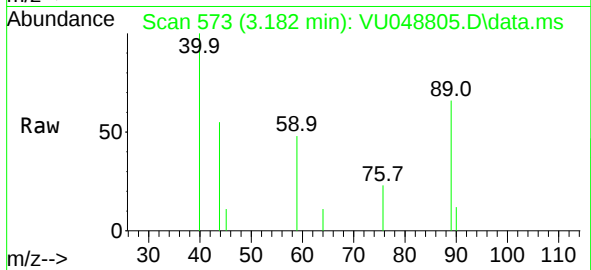
MW-04

Tgt Ion: 59 Resp: 1030

Ion Ratio Lower Upper

59 100

57 0.0 39.7 59.5#



#13

Acrolein

Concen: Below Cal

RT: 2.475 min Scan# 353

Delta R.T. -0.013 min

Lab File: VU048805.D

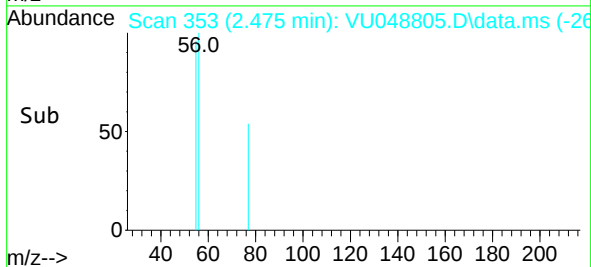
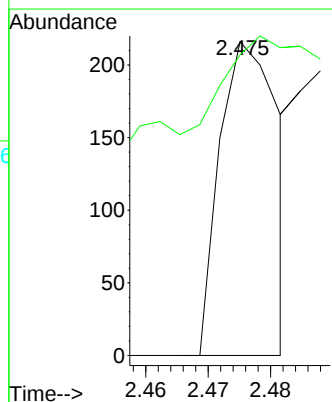
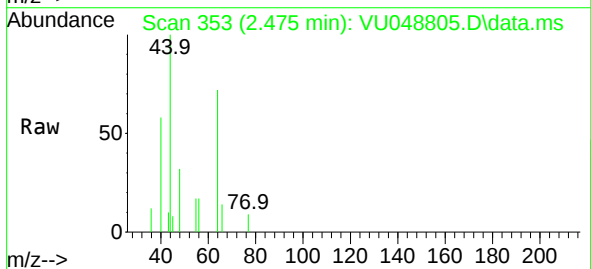
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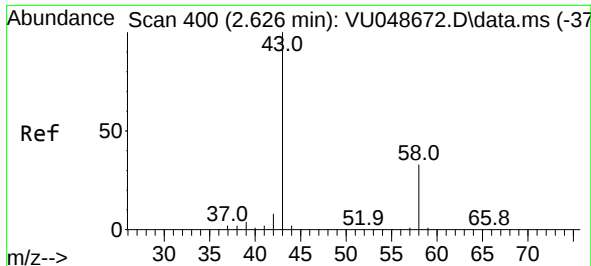
Tgt Ion: 56 Resp: 141

Ion Ratio Lower Upper

56 100

55 398.6 57.7 86.5#





#16

Acetone

Concen: 2.941 ug/l

RT: 2.626 min Scan# 40

Delta R.T. 0.000 min

Lab File: VU048805.D

Acq: 02 Jun 2022 15:48

Instrument :

MSVOA_U

ClientSampleId :

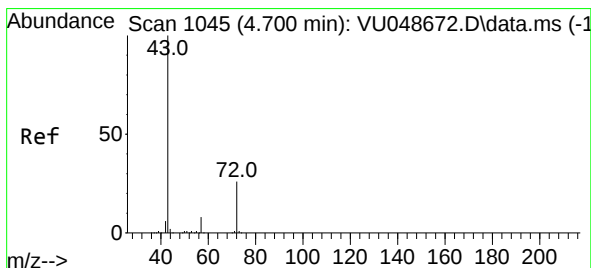
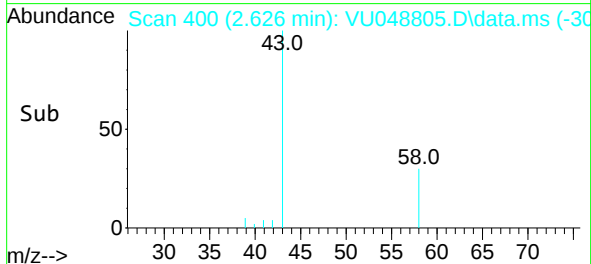
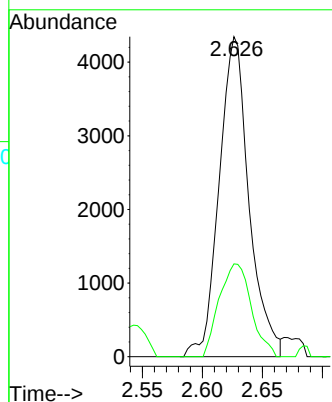
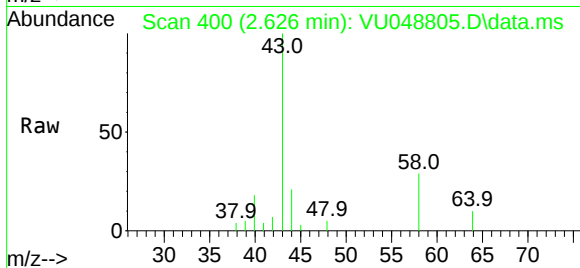
MW-04

Tgt Ion: 43 Resp: 7520

Ion Ratio Lower Upper

43 100

58 29.0 26.3 39.5



#25

2-Butanone

Concen: 1.768 ug/l

RT: 4.716 min Scan# 1050

Delta R.T. 0.016 min

Lab File: VU048805.D

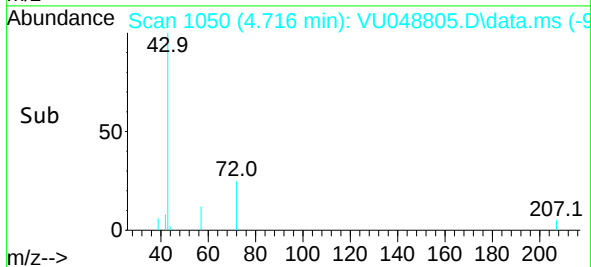
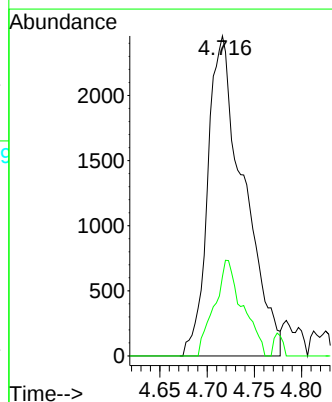
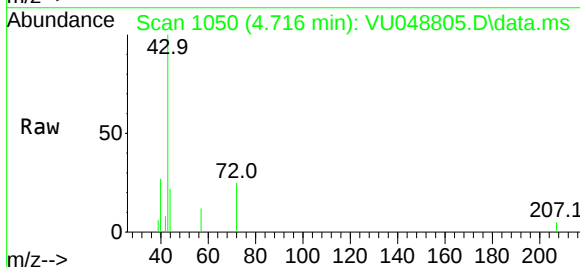
Acq: 02 Jun 2022 15:48

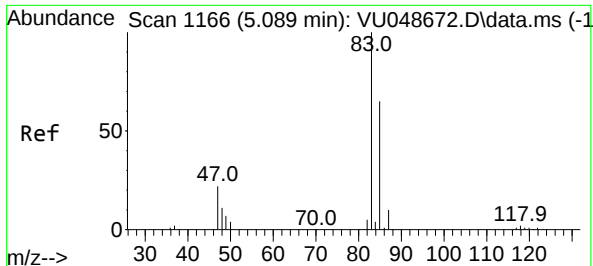
Tgt Ion: 43 Resp: 6493

Ion Ratio Lower Upper

43 100

72 24.8 21.1 31.7





#30

Chloroform

Concen: 0.231 ug/l

RT: 5.086 min Scan# 1166

Delta R.T. -0.003 min

Lab File: VU048805.D

Acq: 02 Jun 2022 15:48

Instrument :

MSVOA_U

ClientSampleId :

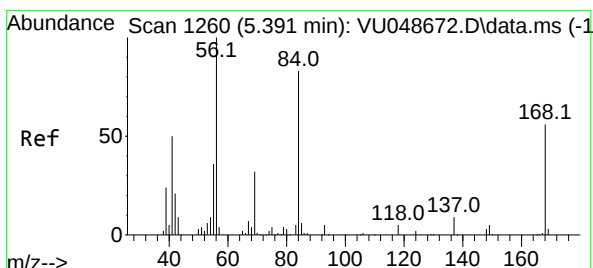
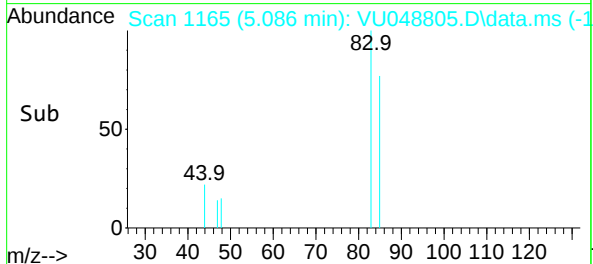
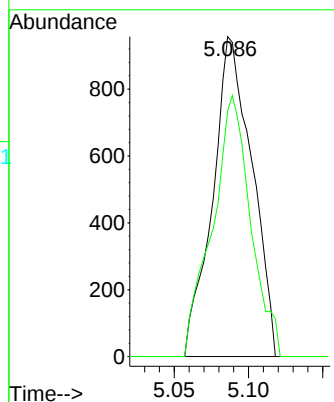
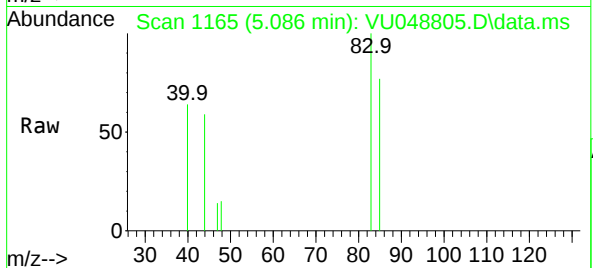
MW-04

Tgt Ion: 83 Resp: 1762

Ion Ratio Lower Upper

83 100

85 77.0 52.2 78.2



#31

Cyclohexane

Concen: 1.237 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.022 min

Lab File: VU048805.D

Acq: 02 Jun 2022 15:48

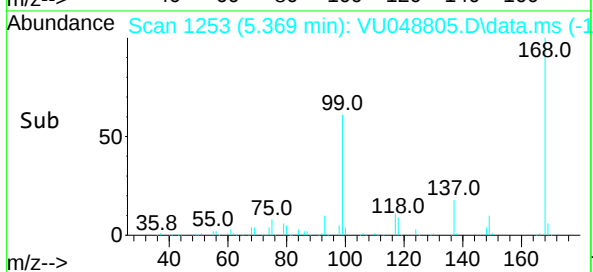
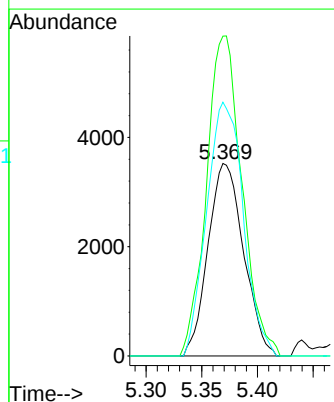
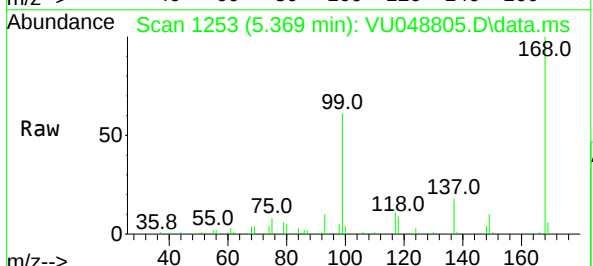
Tgt Ion: 56 Resp: 7819

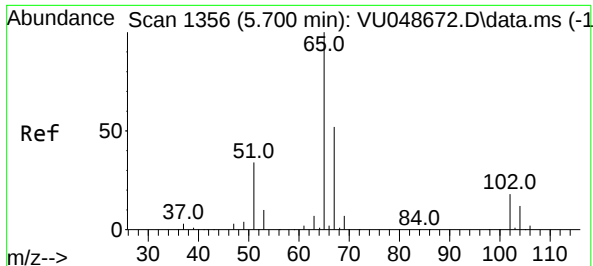
Ion Ratio Lower Upper

56 100

69 166.2 25.6 38.4#

84 131.8 66.2 99.4#





#33

1,2-Dichloroethane-d4

Concen: 44.475 ug/l

RT: 5.700 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU048805.D

Acq: 02 Jun 2022 15:48

Instrument :

MSVOA_U

ClientSampleId :

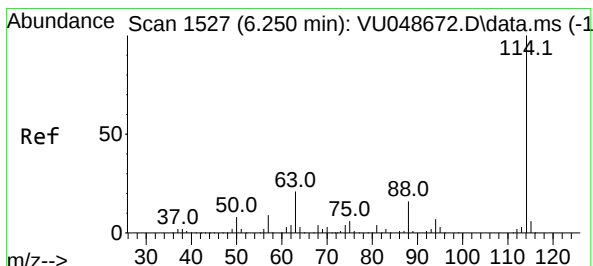
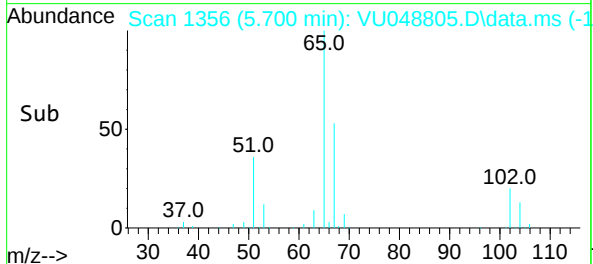
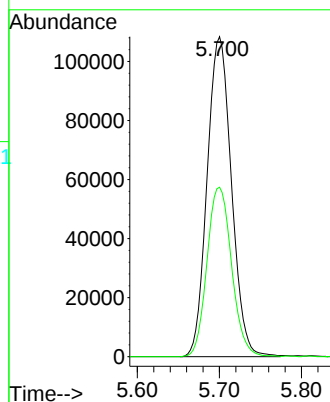
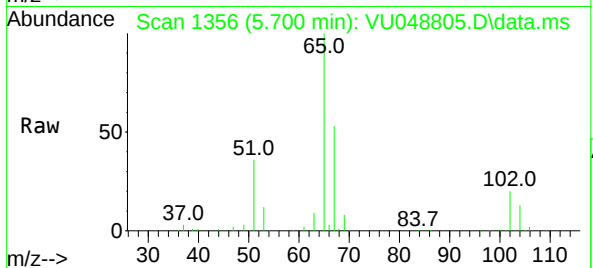
MW-04

Tgt Ion: 65 Resp: 223120

Ion Ratio Lower Upper

65 100

67 53.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.247 min Scan# 1526

Delta R.T. -0.003 min

Lab File: VU048805.D

Acq: 02 Jun 2022 15:48

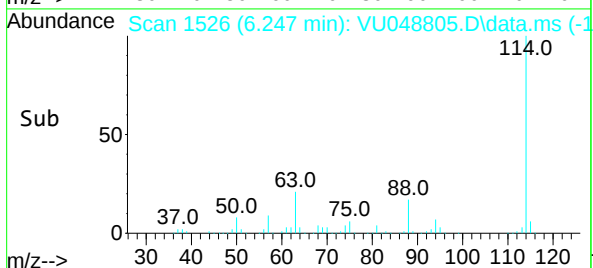
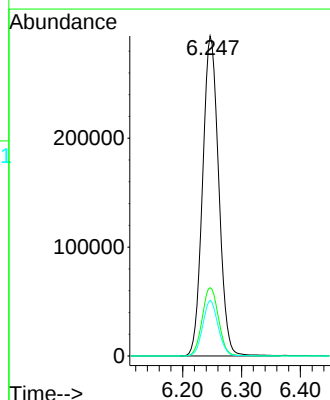
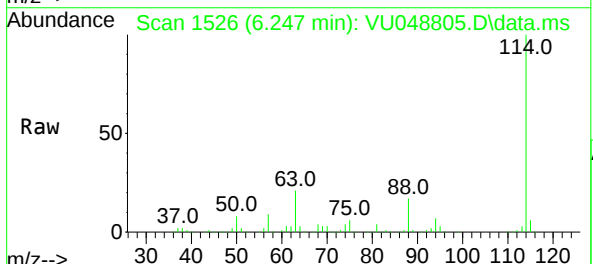
Tgt Ion: 114 Resp: 557746

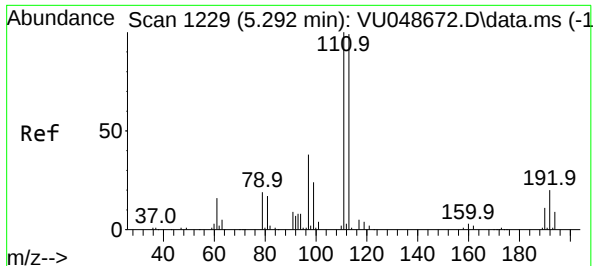
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

88 17.3 0.0 32.2

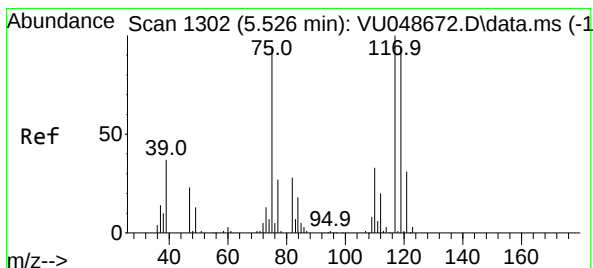
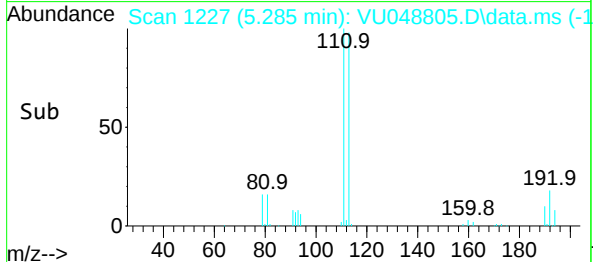
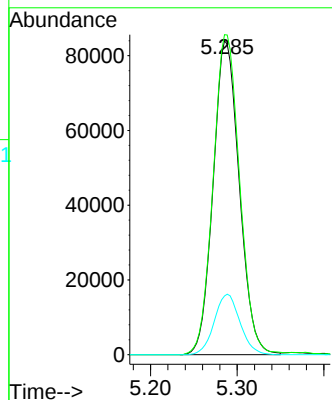
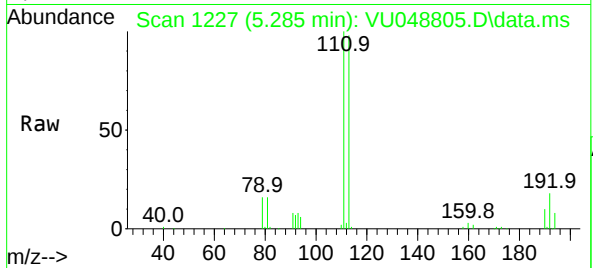




#35
Dibromofluoromethane
Concen: 44.236 ug/l
RT: 5.285 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

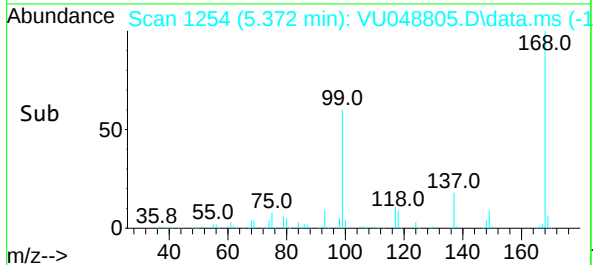
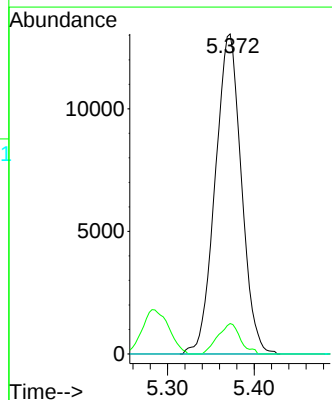
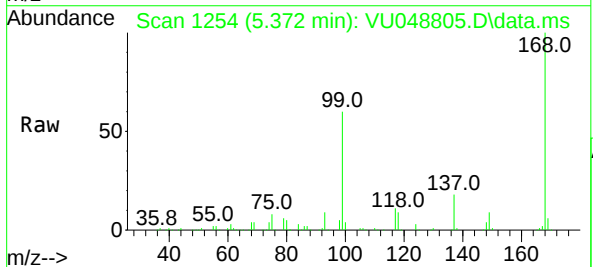
Instrument :
MSVOA_U
ClientSampleId :
MW-04

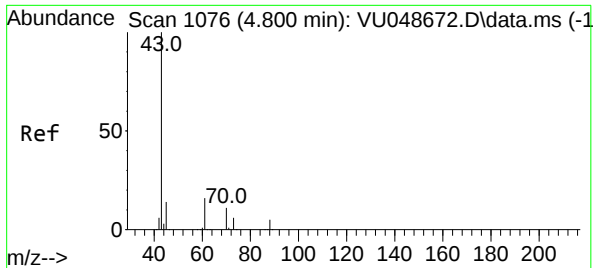
Tgt Ion:113 Resp: 176017
Ion Ratio Lower Upper
113 100
111 103.4 80.7 121.1
192 19.0 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.719 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.154 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 75 Resp: 27407
Ion Ratio Lower Upper
75 100
110 8.1 17.4 52.3#
77 0.0 24.8 37.2#

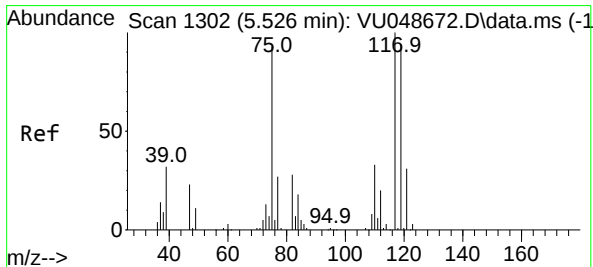
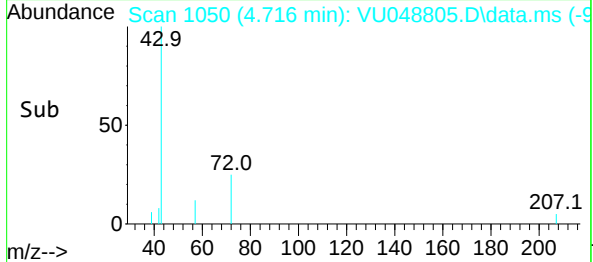
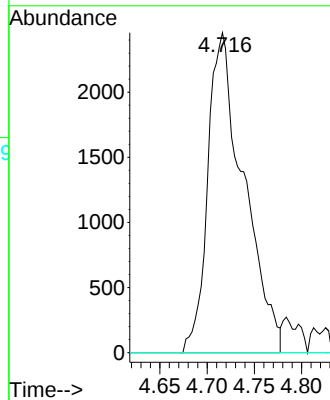
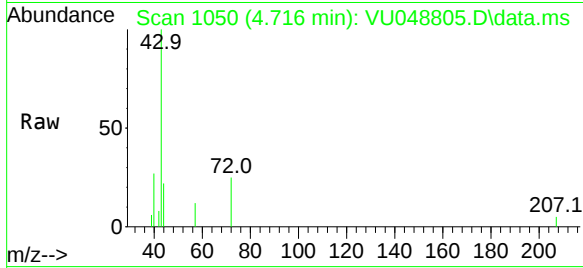




#37
Ethyl Acetate
Concen: 0.884 ug/l
RT: 4.716 min Scan# 1050
Delta R.T. -0.084 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

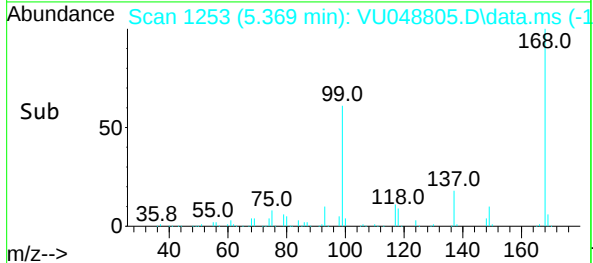
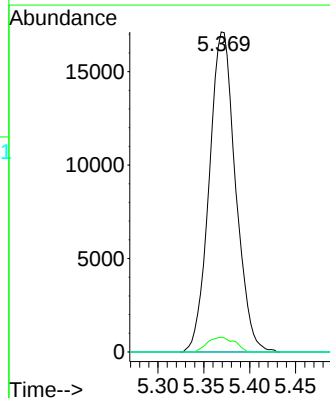
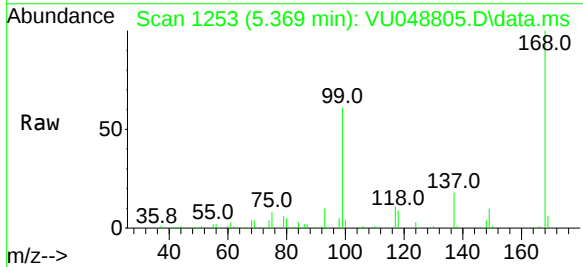
Instrument :
MSVOA_U
ClientSampleId :
MW-04

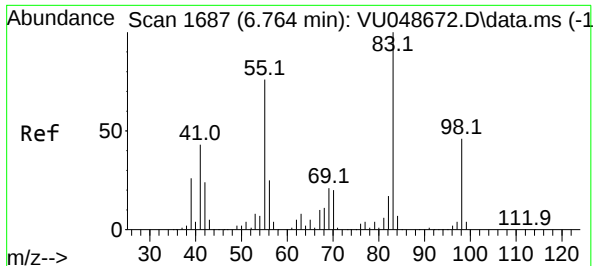
Tgt Ion: 43 Resp: 6493
Ion Ratio Lower Upper
43 100
61 0.0 11.7 17.5#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 5.127 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.158 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 117 Resp: 34162
Ion Ratio Lower Upper
117 100
119 4.6 75.4 113.2#
121 0.0 24.6 36.8#





#39

Methylcyclohexane

Concen: 0.275 ug/l

RT: 6.761 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU048805.D

Acq: 02 Jun 2022 15:48

Instrument :

MSVOA_U

ClientSampleId :

MW-04

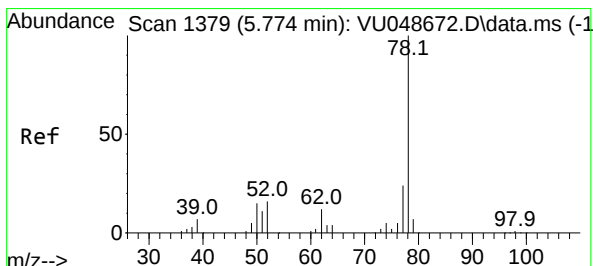
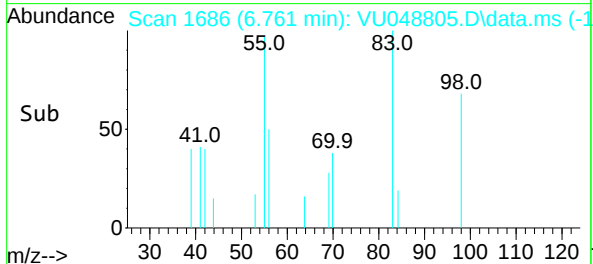
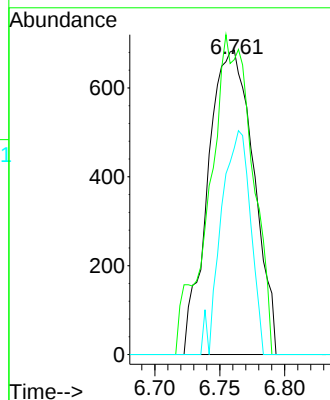
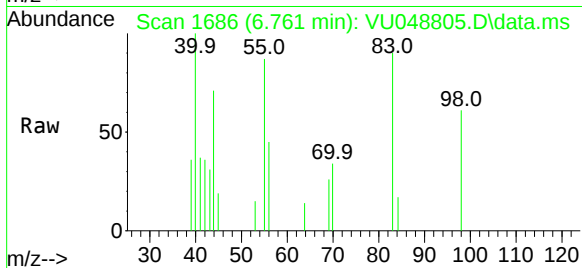
Tgt Ion: 83 Resp: 1673

Ion Ratio Lower Upper

83 100

55 96.9 61.0 91.6#

98 67.9 36.8 55.2#



#40

Benzene

Concen: 1.624 ug/l

RT: 5.774 min Scan# 1379

Delta R.T. 0.000 min

Lab File: VU048805.D

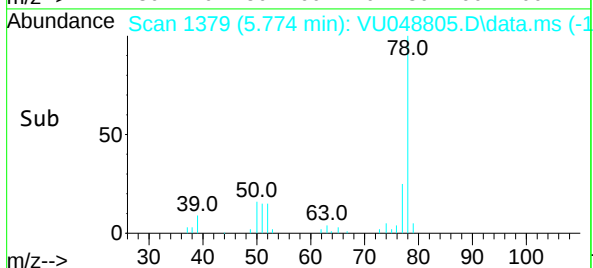
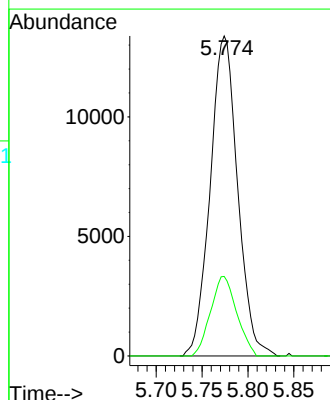
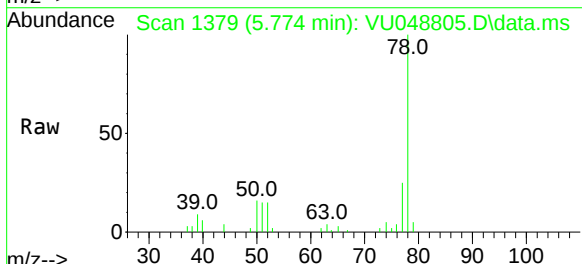
Acq: 02 Jun 2022 15:48

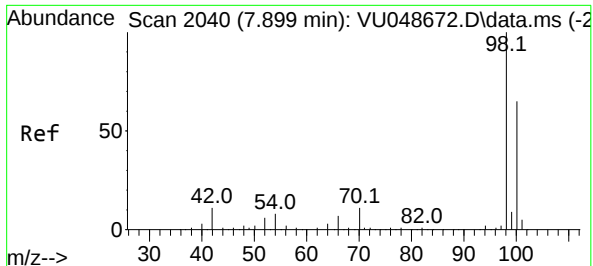
Tgt Ion: 78 Resp: 27846

Ion Ratio Lower Upper

78 100

77 24.9 19.0 28.6

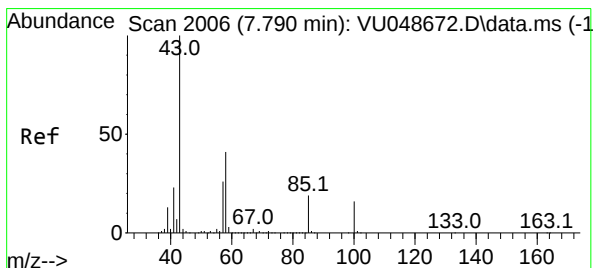
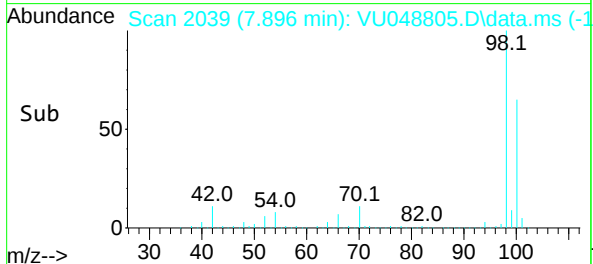
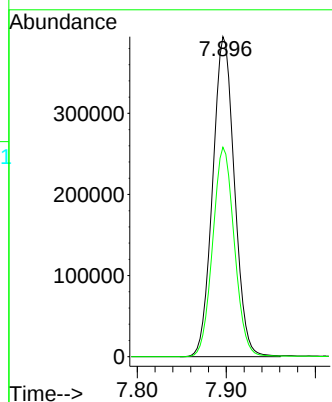
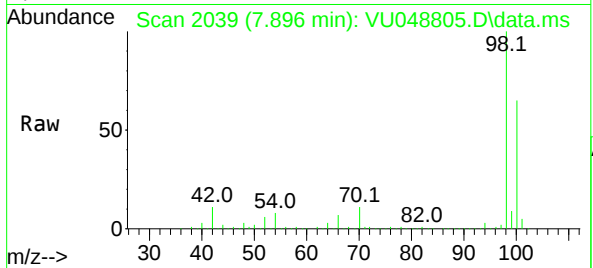




#50
Toluene-d8
Concen: 46.922 ug/l
RT: 7.896 min Scan# 2040
Delta R.T. -0.003 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

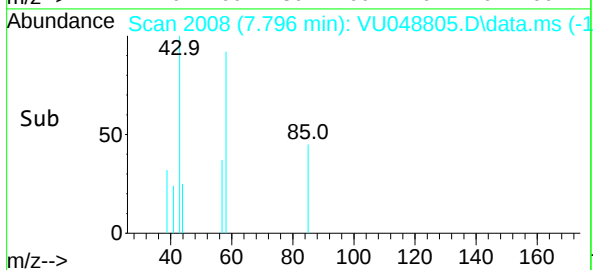
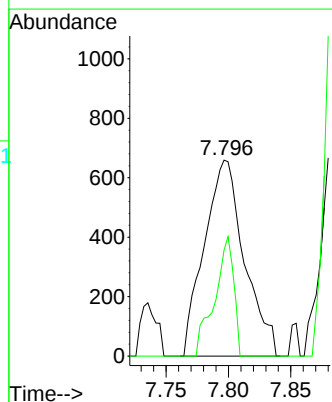
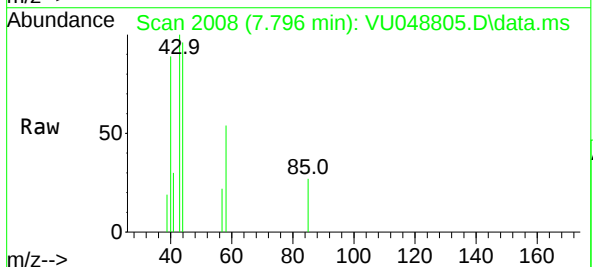
Instrument :
MSVOA_U
ClientSampleId :
MW-04

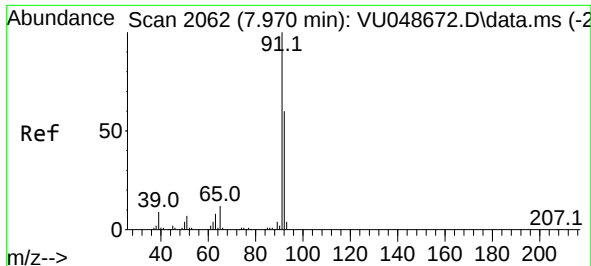
Tgt Ion: 98 Resp: 669279
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 0.213 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. 0.006 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 43 Resp: 1476
Ion Ratio Lower Upper
43 100
58 28.9 32.7 49.1#

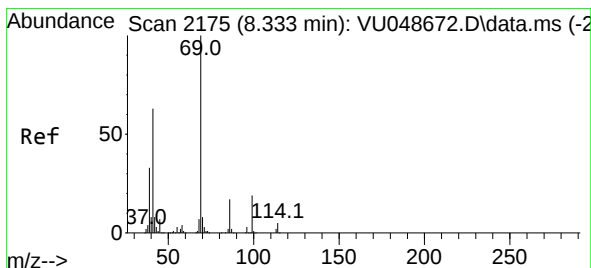
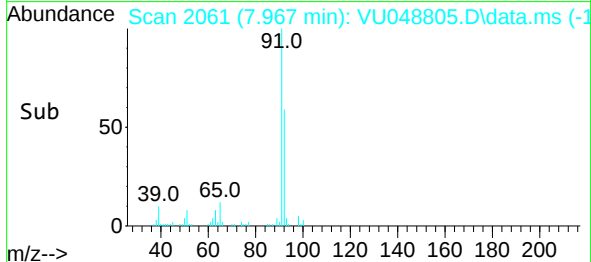
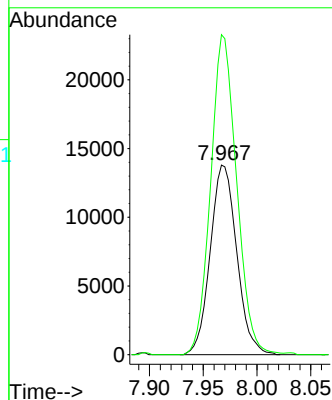
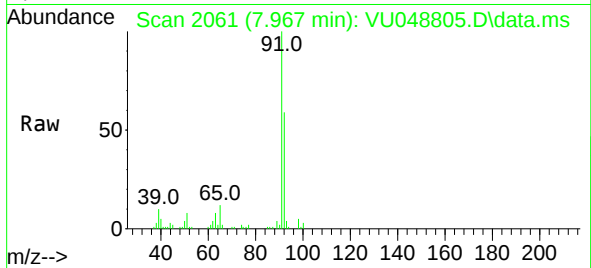




#52
Toluene
Concen: 2.306 ug/l
RT: 7.967 min Scan# 2062
Delta R.T. -0.003 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

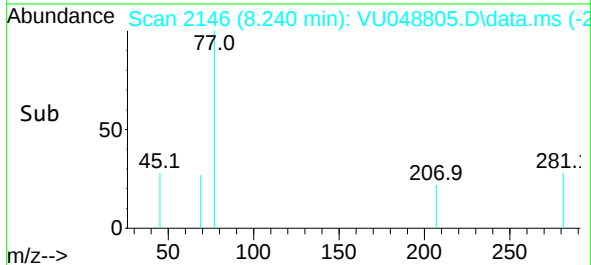
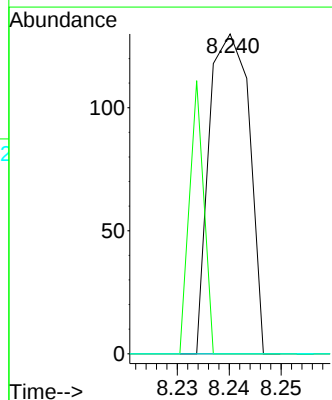
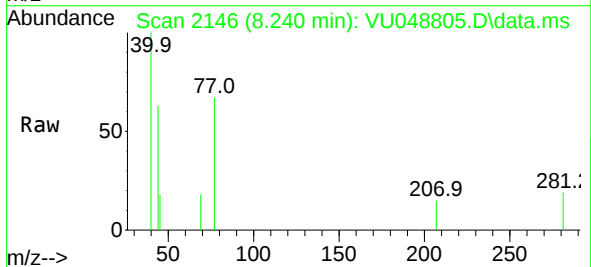
Instrument :
MSVOA_U
ClientSampleId :
MW-04

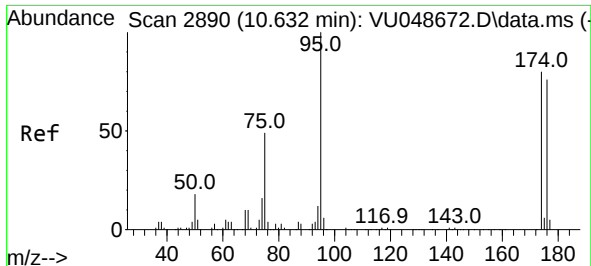
Tgt Ion: 92 Resp: 23646
Ion Ratio Lower Upper
92 100
91 165.5 135.0 202.4



#56
Ethyl methacrylate
Concen: 2.622 ug/l
RT: 8.240 min Scan# 2146
Delta R.T. -0.093 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 69 Resp: 69
Ion Ratio Lower Upper
69 100
41 30.4 50.6 76.0#
39 0.0 26.6 40.0#

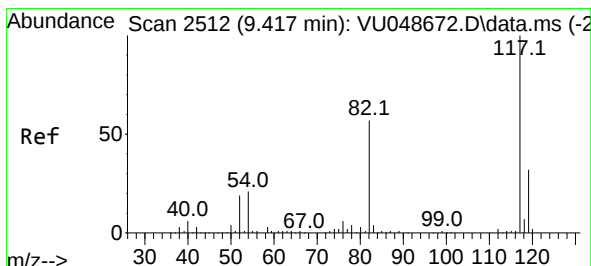
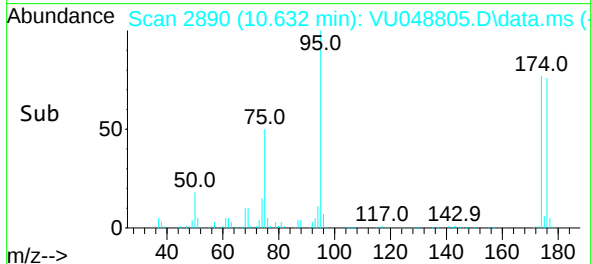
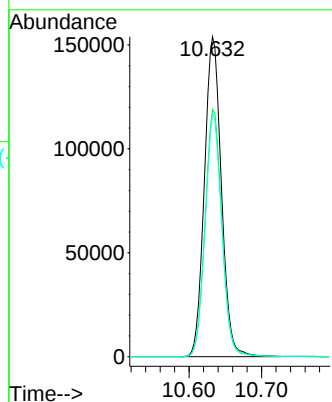
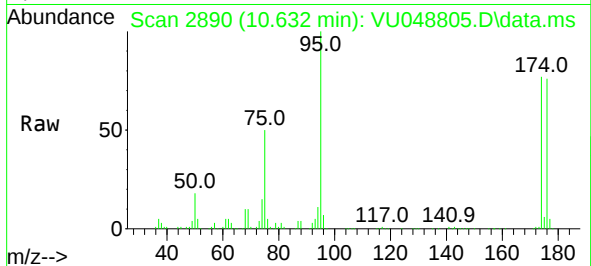




#62
4-Bromofluorobenzene
Concen: 46.440 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

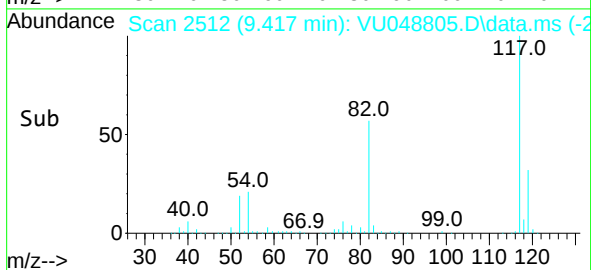
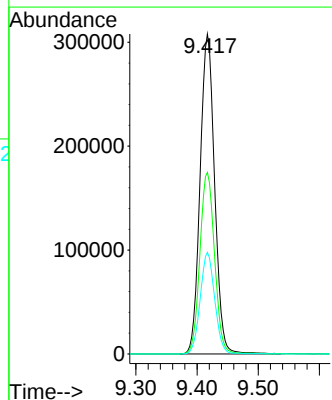
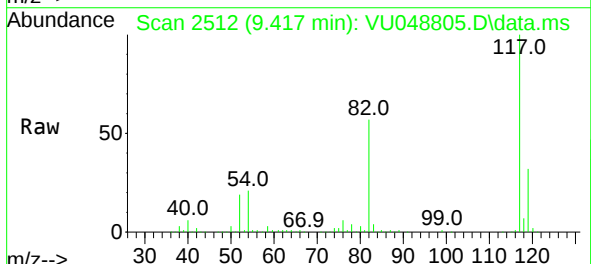
Instrument : MSVOA_U
ClientSampleId : MW-04

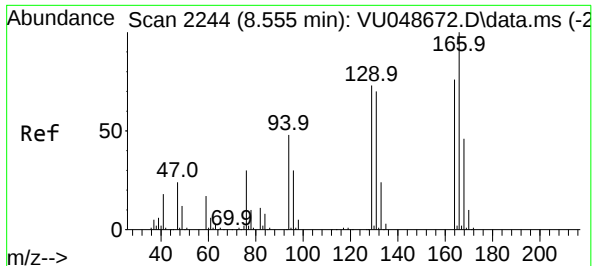
Tgt Ion: 95 Resp: 250514
Ion Ratio Lower Upper
95 100
174 77.1 0.0 159.4
176 74.7 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

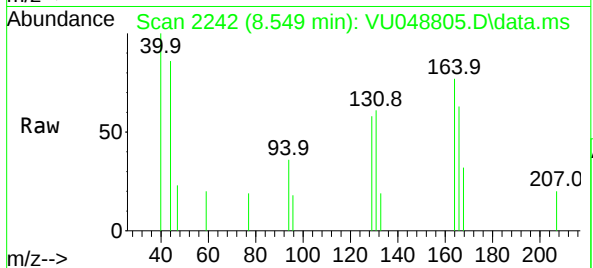
Tgt Ion: 117 Resp: 508353
Ion Ratio Lower Upper
117 100
82 56.7 45.3 67.9
119 31.7 25.4 38.2



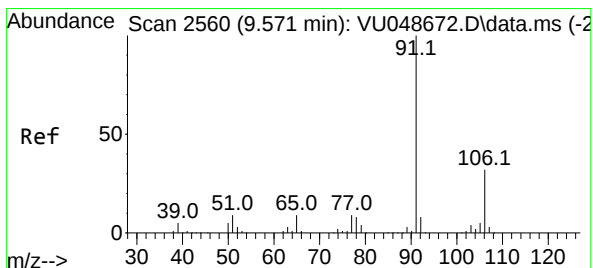
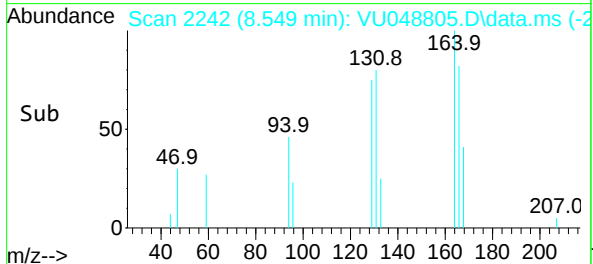
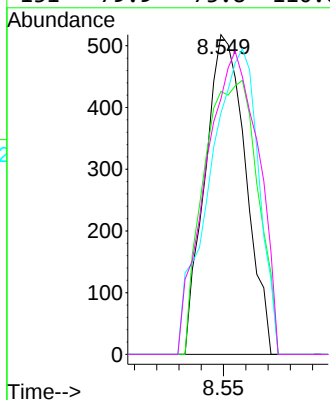


#64
Tetrachloroethene
Concen: Below Cal
RT: 8.549 min Scan# 21
Delta R.T. -0.006 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Instrument :
MSVOA_U
ClientSampleId :
MW-04

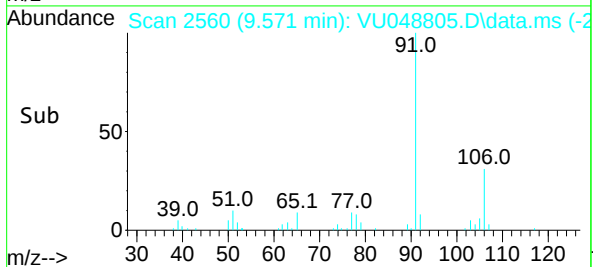
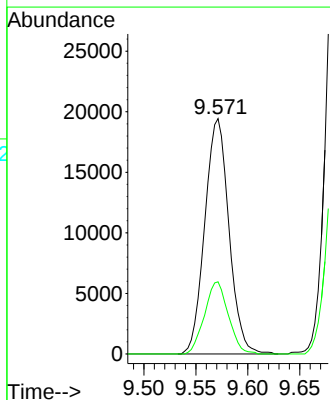
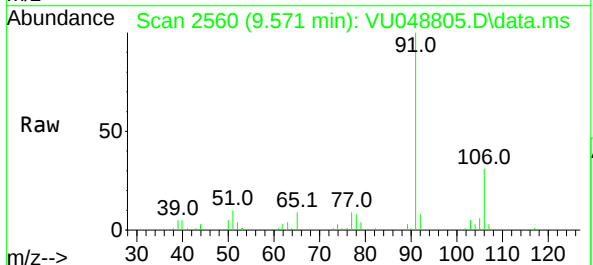


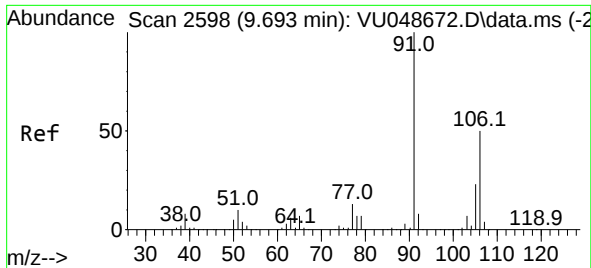
Tgt Ion:	164	Resp:	656
Ion	Ratio	Lower	Upper
164	100		
166	82.2	105.0	157.4#
129	75.5	76.5	114.7#
131	79.9	73.8	110.6



#67
Ethyl Benzene
Concen: 1.734 ug/l
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion:	91	Resp:	31444
Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.4	38.2

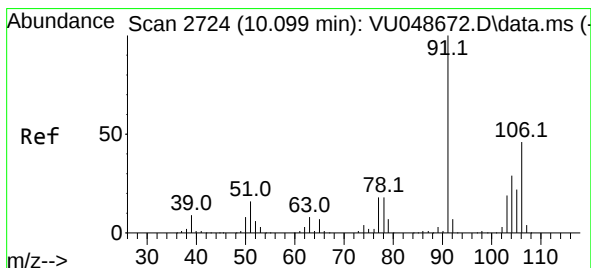
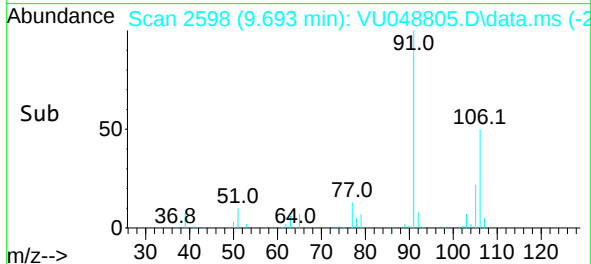
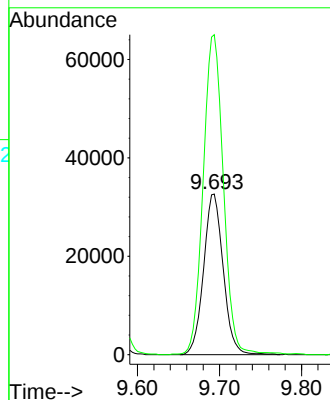
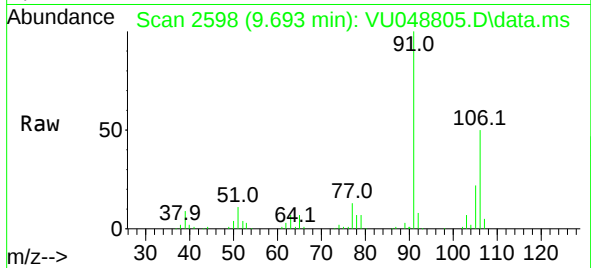




#68
m/p-Xylenes
Concen: 7.658 ug/l
RT: 9.693 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

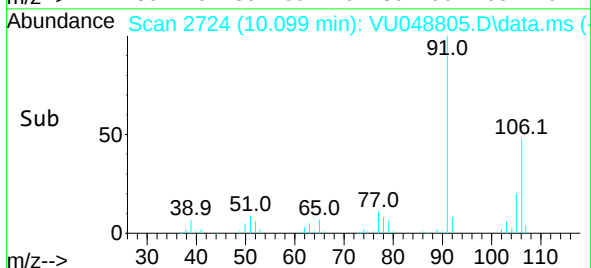
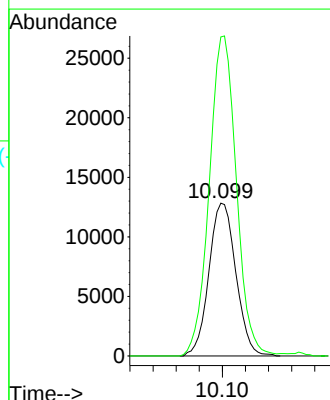
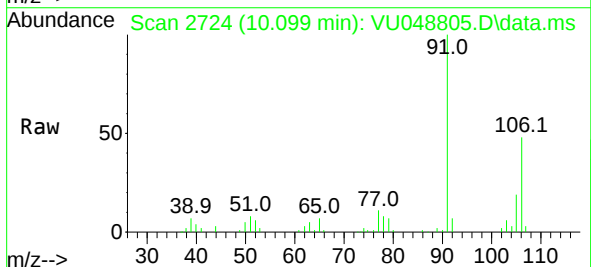
Instrument :
MSVOA_U
ClientSampleId :
MW-04

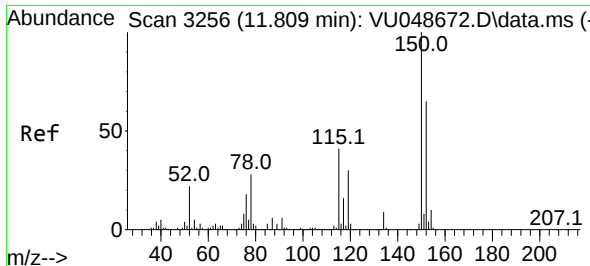
Tgt Ion:106 Resp: 54314
Ion Ratio Lower Upper
106 100
91 205.6 162.4 243.6



#69
o-Xylene
Concen: 2.985 ug/l
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion:106 Resp: 20797
Ion Ratio Lower Upper
106 100
91 210.2 107.7 323.3

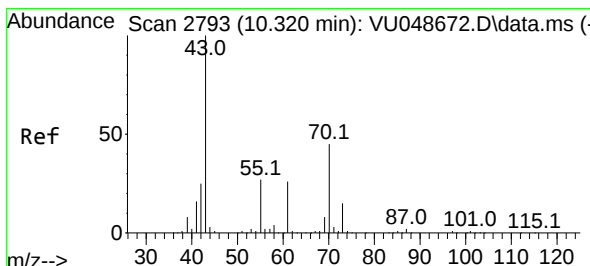
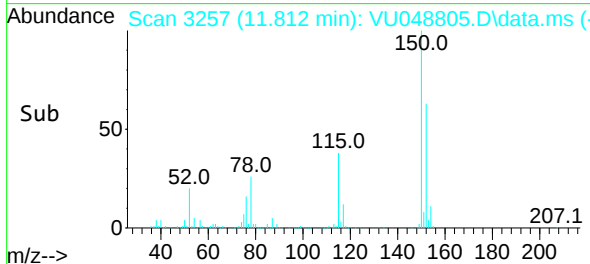
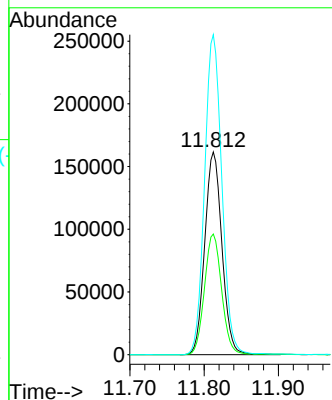
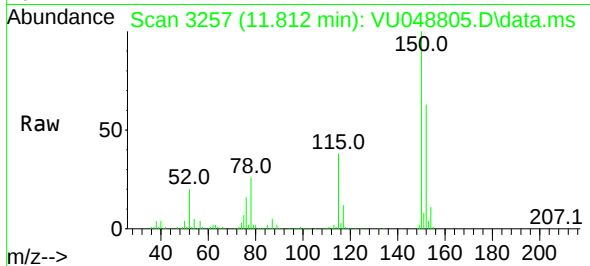




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

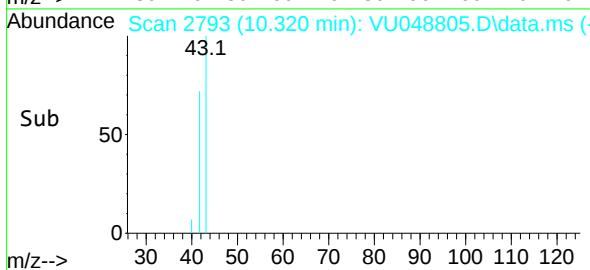
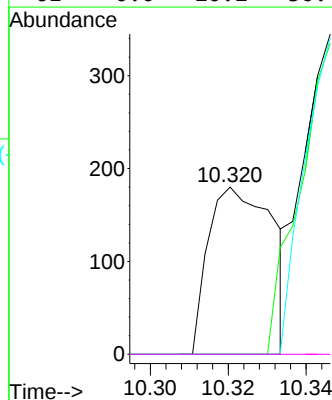
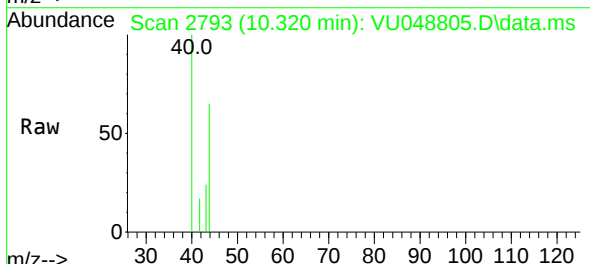
Instrument :
MSVOA_U
ClientSampleId :
MW-04

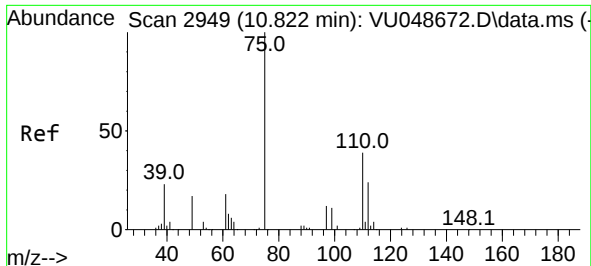
Tgt Ion:152 Resp: 259480
Ion Ratio Lower Upper
152 100
115 59.4 41.8 125.4
150 157.8 0.0 341.0



#74
N-ethyl acetate
Concen: 2.490 ug/l
RT: 10.320 min Scan# 2793
Delta R.T. 0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 43 Resp: 206
Ion Ratio Lower Upper
43 100
70 0.0 35.8 53.6#
55 0.0 21.1 31.7#
61 0.0 20.2 30.4#

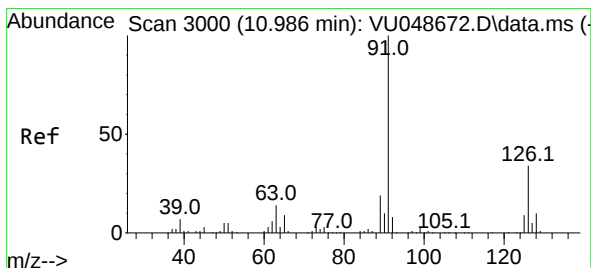
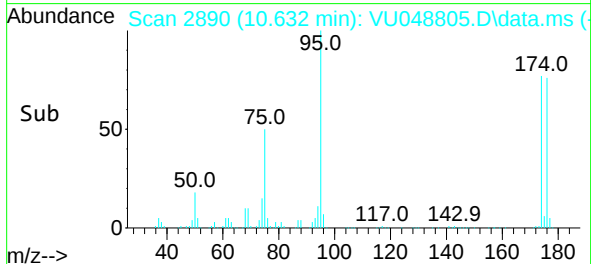
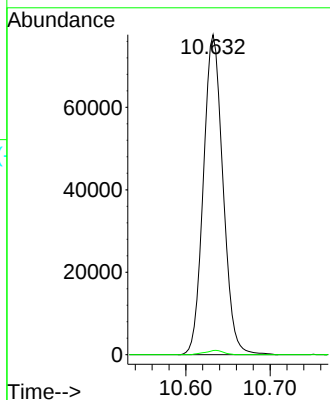
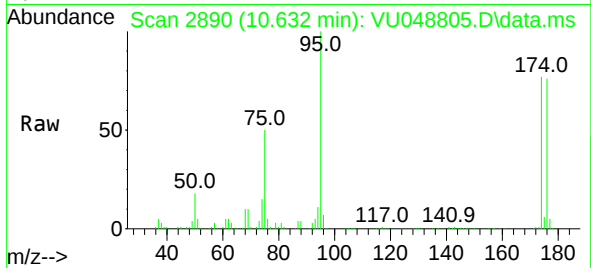




#76
1,2,3-Trichloropropane
Concen: 15.015 ug/l
RT: 10.632 min Scan# 21
Delta R.T. -0.190 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

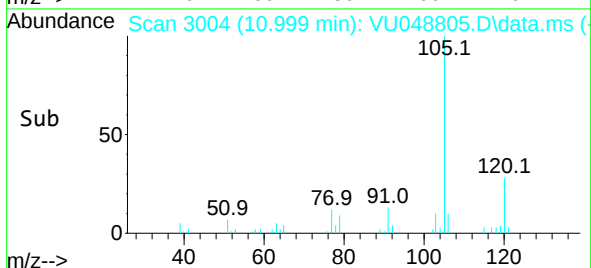
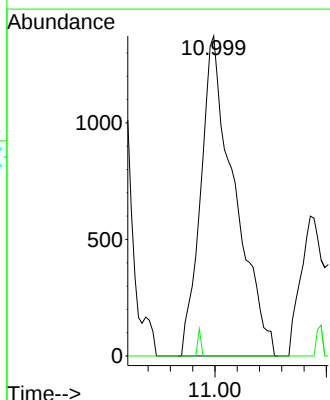
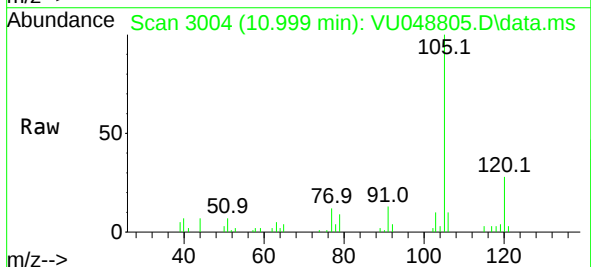
Instrument :
MSVOA_U
ClientSampleId :
MW-04

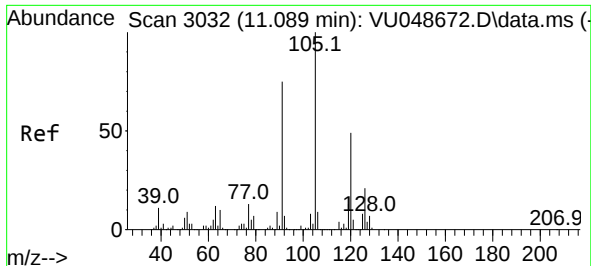
Tgt Ion: 75 Resp: 125617
Ion Ratio Lower Upper
75 100
77 1.3 14.8 44.3#



#79
2-Chlorotoluene
Concen: 0.232 ug/l
RT: 10.999 min Scan# 3004
Delta R.T. 0.013 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 91 Resp: 2882
Ion Ratio Lower Upper
91 100
126 0.8 16.7 50.0#

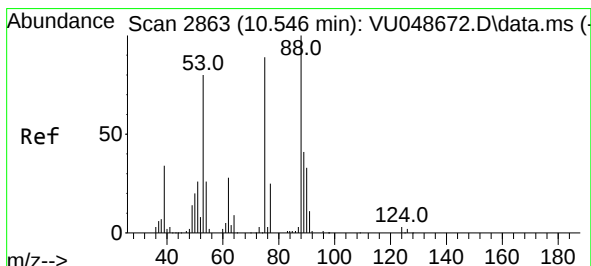
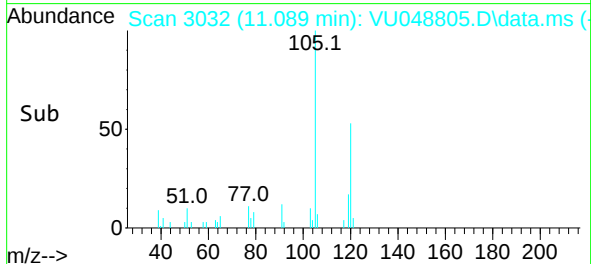
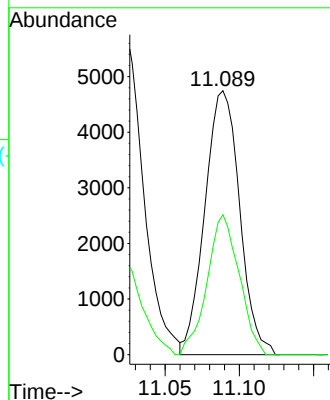
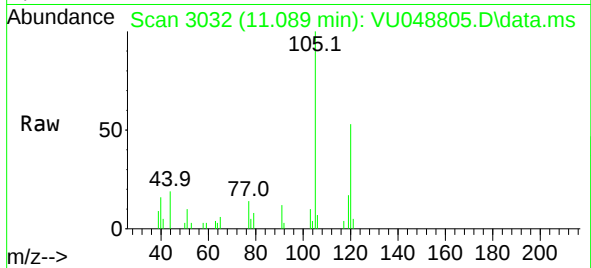




#80
1,3,5-Trimethylbenzene
Concen: 0.530 ug/l
RT: 11.089 min Scan# 3032
Delta R.T. 0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

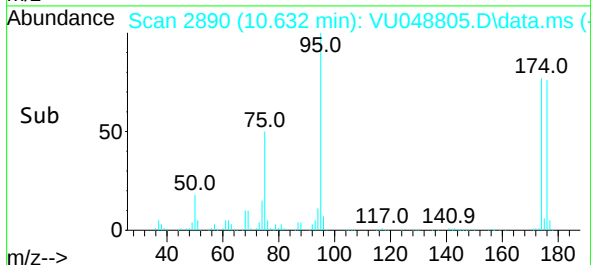
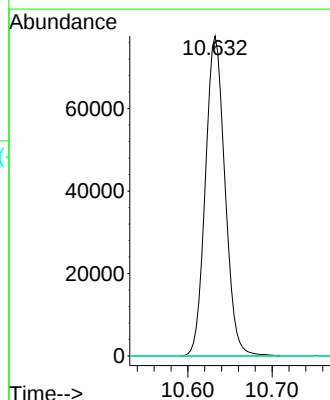
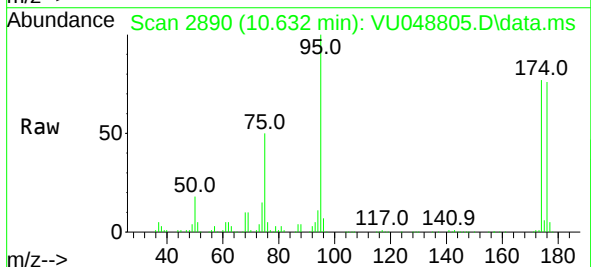
Instrument :
MSVOA_U
ClientSampleId :
MW-04

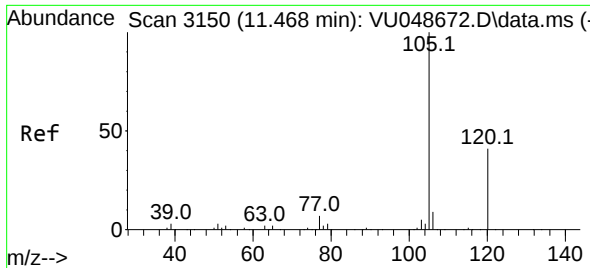
Tgt Ion:105 Resp: 7727
Ion Ratio Lower Upper
105 100
120 49.0 24.1 72.3



#81
trans-1,4-Dichloro-2-butene
Concen: 54.516 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.087 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 75 Resp: 125617
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#

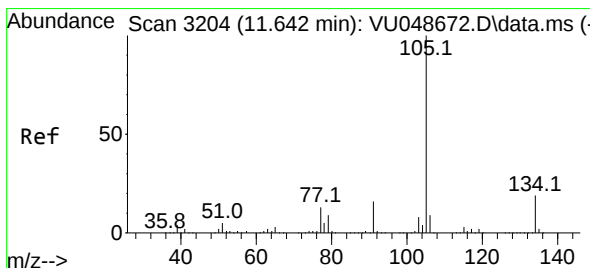
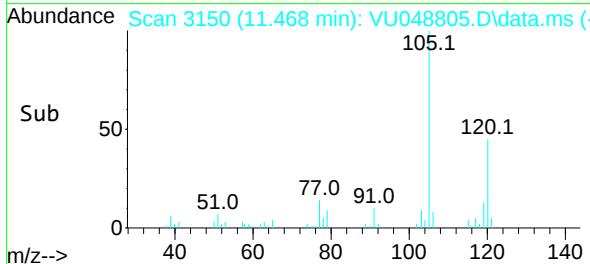
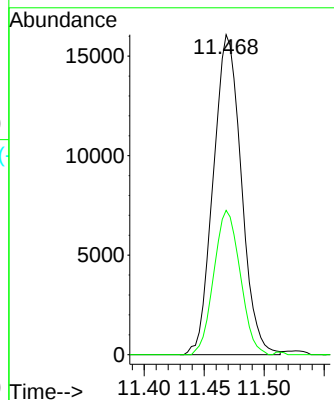
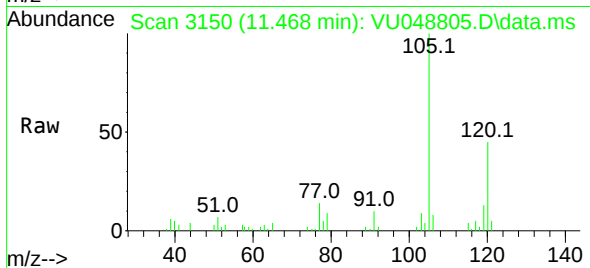




#84
1,2,4-Trimethylbenzene
Concen: 2.808 ug/l
RT: 11.468 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

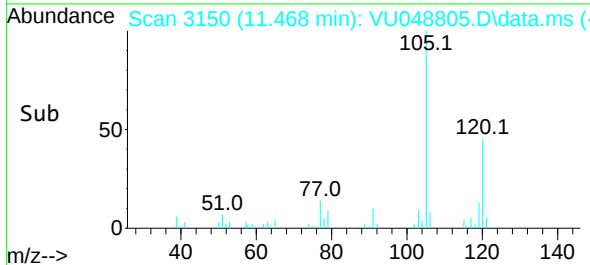
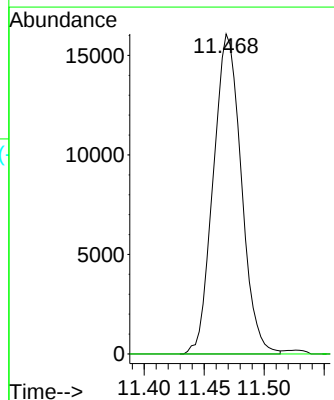
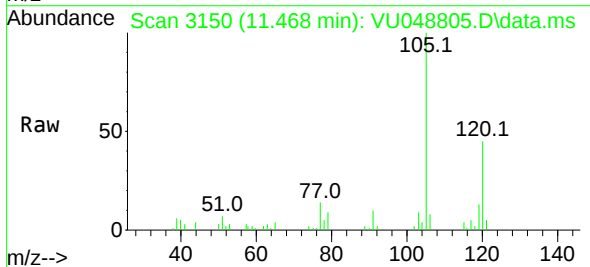
Instrument :
MSVOA_U
ClientSampleId :
MW-04

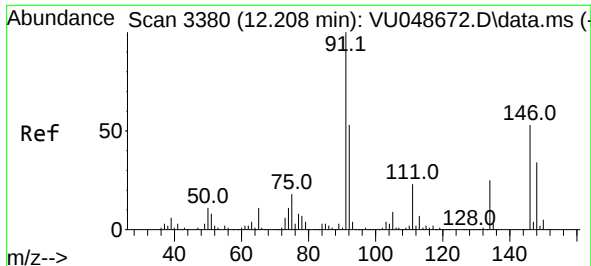
Tgt Ion:105 Resp: 26065
Ion Ratio Lower Upper
105 100
120 42.4 22.5 67.5



#85
sec-Butylbenzene
Concen: 1.490 ug/l
RT: 11.468 min Scan# 3150
Delta R.T. -0.174 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion:105 Resp: 26065
Ion Ratio Lower Upper
105 100
134 0.0 9.6 28.6#

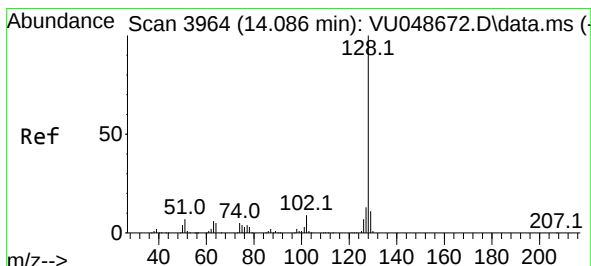
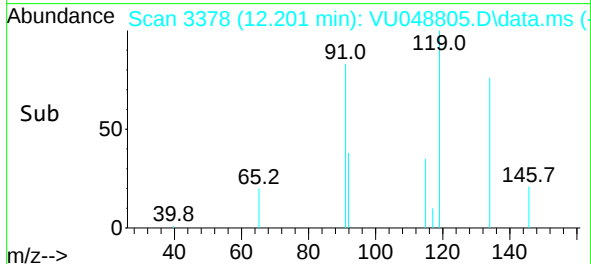
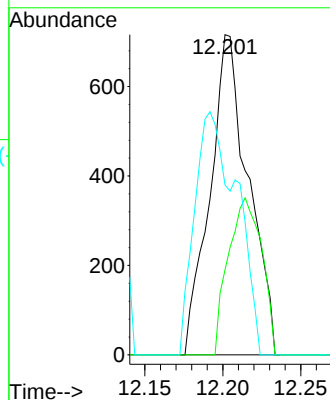
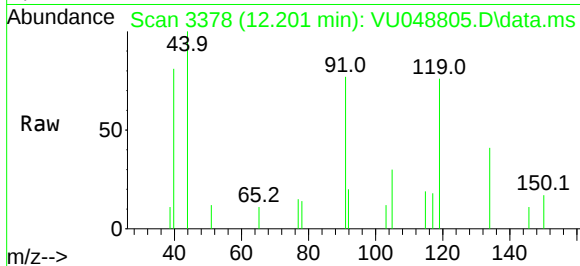




#89
n-Butylbenzene
Concen: 2.263 ug/l
RT: 12.201 min Scan# 311
Delta R.T. -0.007 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Instrument :
MSVOA_U
ClientSampleId :
MW-04

Tgt Ion: 91 Resp: 1224
Ion Ratio Lower Upper
91 100
92 0.0 25.9 77.8#
134 83.3 12.5 37.5#



#95
Naphthalene
Concen: 3.517 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.006 min
Lab File: VU048805.D
Acq: 02 Jun 2022 15:48

Tgt Ion: 128 Resp: 21185
Ion Ratio Lower Upper
128 100
127 14.5 10.2 15.4
129 11.3 8.7 13.1

