

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU060622\
 Data File : VU048884.D
 Acq On : 06 Jun 2022 15:54
 Operator : SY/MD
 Sample : N3165-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 65BR-20220531

Quant Time: Jun 07 05:17:21 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)

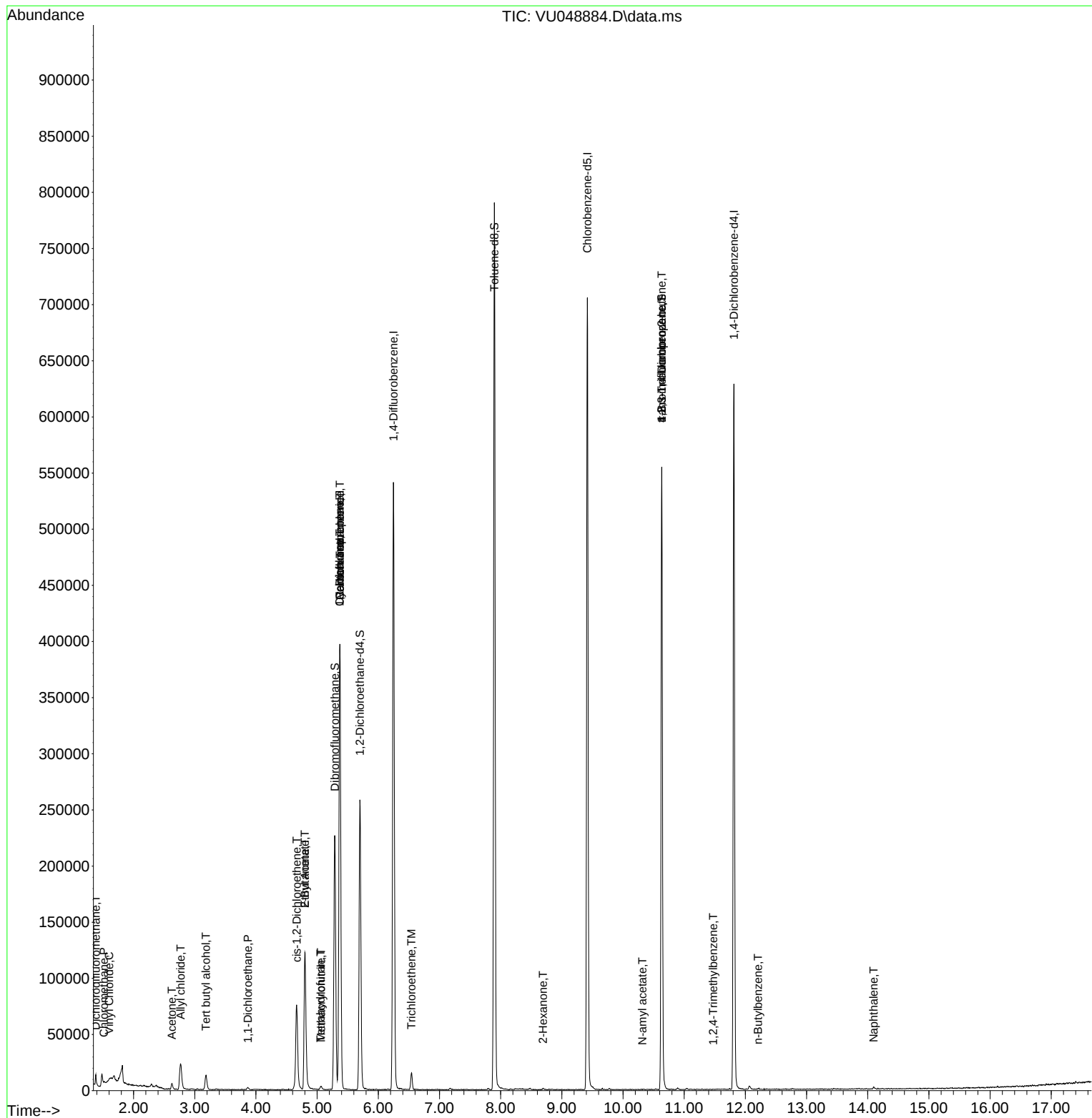
Internal Standards						
1) Pentafluorobenzene	5.372	168	267017	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	434226	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	388896	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	166521	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.700	65	196616	49.030	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	98.060%
35) Dibromofluoromethane	5.288	113	144787	46.738	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.480%
50) Toluene-d8	7.896	98	514523	46.334	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	92.660%
62) 4-Bromofluorobenzene	10.632	95	186546	44.419	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	88.840%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.382	85	5418	1.772	ug/l	88
3) Chloromethane	1.517	50	814	0.207	ug/l	96
4) Vinyl Chloride	1.600	62	875	0.240	ug/l #	1
5) Bromomethane	1.838	94	162	Below Cal		98
6) Chloroethane	1.951	64	455	Below Cal	#	43
11) Tert butyl alcohol	3.182	59	8122	7.989	ug/l #	29
13) Acrolein	2.478	56	64	Below Cal	#	14
14) Allyl chloride	2.768	41	3372	0.641	ug/l #	42
16) Acetone	2.623	43	5511	2.697	ug/l	98
24) 1,1-Dichloroethane	3.867	63	2579	0.423	ug/l #	84
25) 2-Butanone	4.800	43	161438	54.988	ug/l #	49
27) cis-1,2-Dichloroethene	4.668	96	38990	10.836	ug/l	88
29) Tetrahydrofuran	5.057	42	2145	1.160	ug/l #	87
31) Cyclohexane	5.369	56	5914	1.170	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	22847	5.053	ug/l #	45
37) Ethyl Acetate	4.800	43	161438	28.244	ug/l	100
38) Carbon Tetrachloride	5.372	117	28093	5.416	ug/l #	16
41) Methacrylonitrile	5.063	41	1016	0.352	ug/l #	36
44) Trichloroethene	6.539	130	5185	1.508	ug/l	90
59) 2-Hexanone	8.693	43	1027	0.232	ug/l	66
74) N-amyl acetate	10.317	43	83	2.481	ug/l #	41
76) 1,2,3-Trichloropropane	10.632	75	97881	18.231	ug/l #	47
81) trans-1,4-Dichloro-2-b...	10.632	75	97881	66.193	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.475	105	193	1.206	ug/l #	31
89) n-Butylbenzene	12.204	91	275	2.213	ug/l #	81
95) Naphthalene	14.098	128	2626	2.723	ug/l #	81

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

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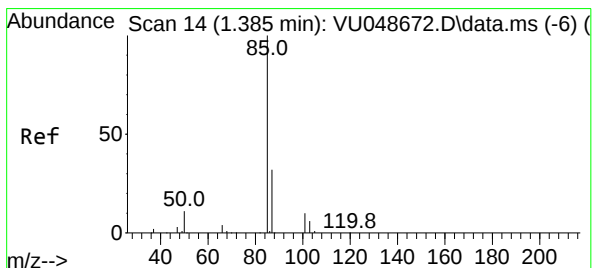
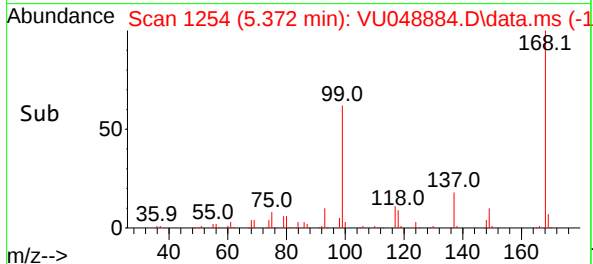
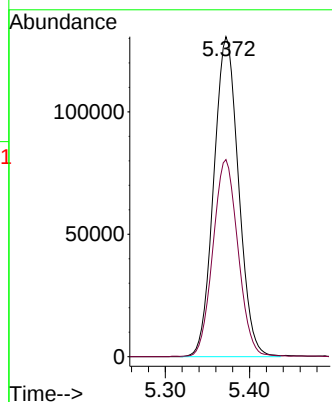
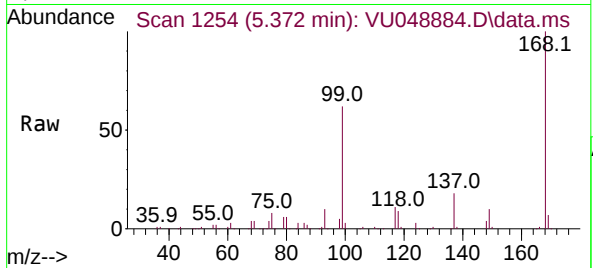




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

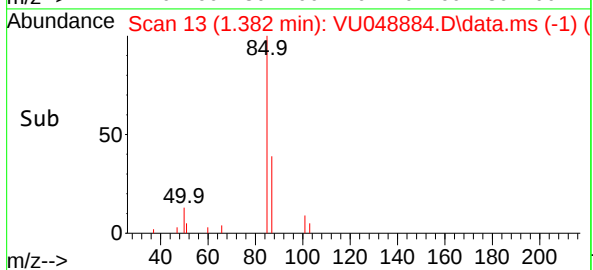
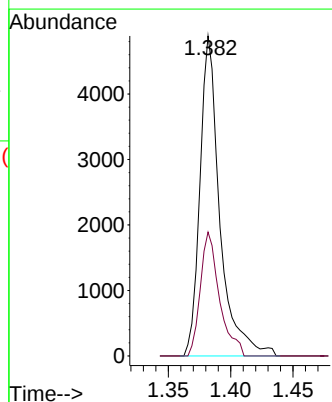
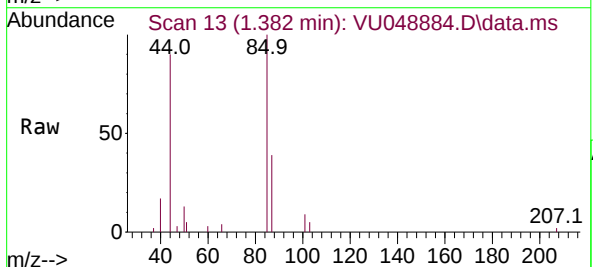
Instrument :
MSVOA_U
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65BR-20220531

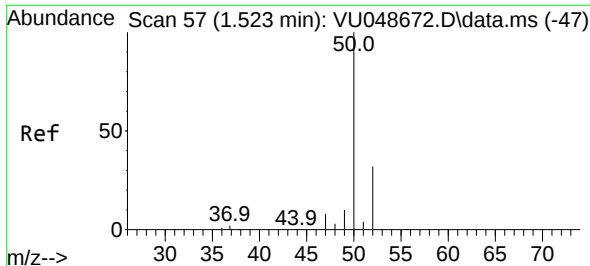
Tgt Ion:168 Resp: 267017
Ion Ratio Lower Upper
168 100
99 61.5 49.3 73.9



#2
Dichlorodifluoromethane
Concen: 1.772 ug/l
RT: 1.382 min Scan# 13
Delta R.T. -0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion: 85 Resp: 5418
Ion Ratio Lower Upper
85 100
87 38.7 16.0 48.0

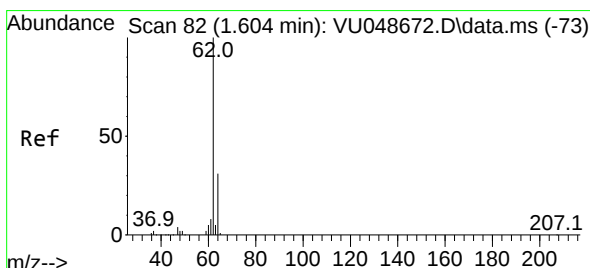
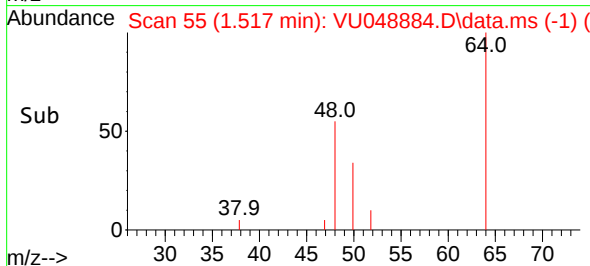
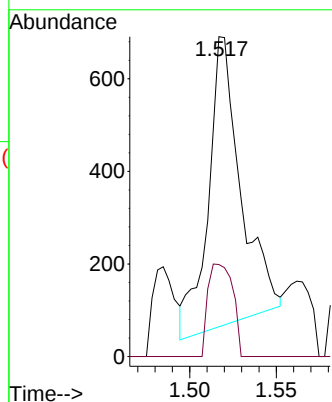
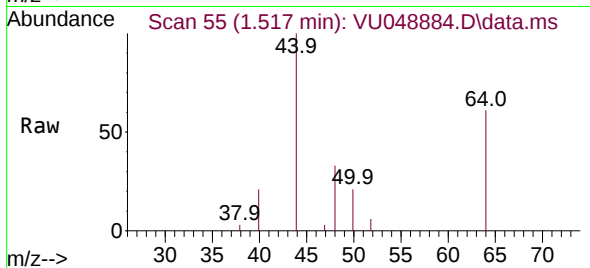




#3
Chloromethane
Concen: 0.207 ug/l
RT: 1.517 min Scan# 51
Delta R.T. -0.007 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

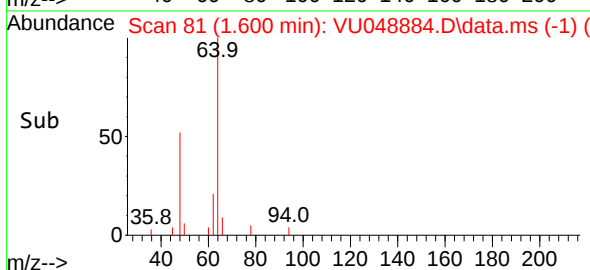
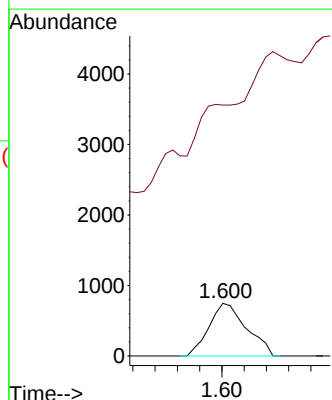
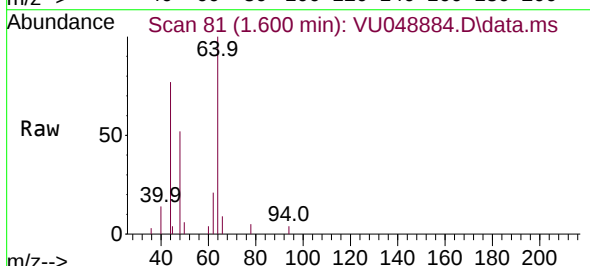
Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

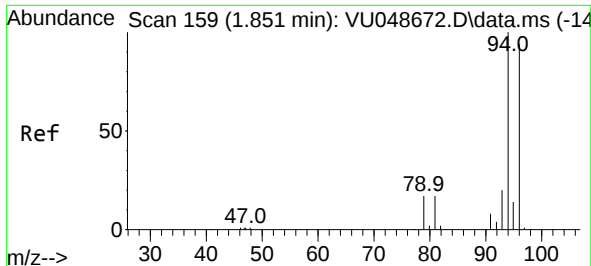
Tgt Ion: 50 Resp: 814
Ion Ratio Lower Upper
50 100
52 34.2 25.7 38.5



#4
Vinyl Chloride
Concen: 0.240 ug/l
RT: 1.600 min Scan# 81
Delta R.T. -0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion: 62 Resp: 875
Ion Ratio Lower Upper
62 100
64 96.1 25.2 37.8#

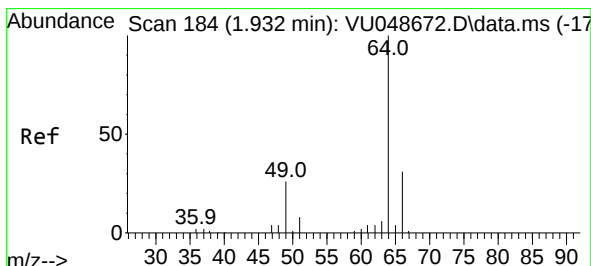
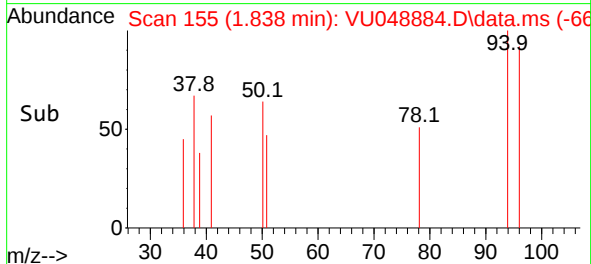
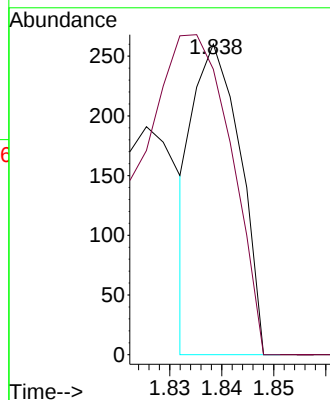
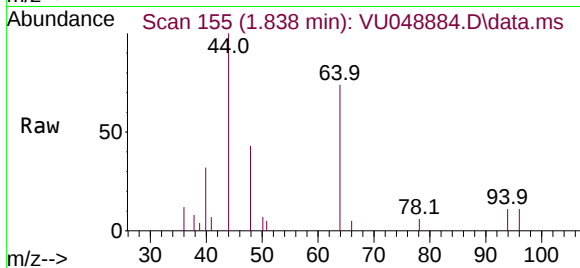




#5
Bromomethane
Concen: Below Cal
RT: 1.838 min Scan# 11
Delta R.T. -0.013 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

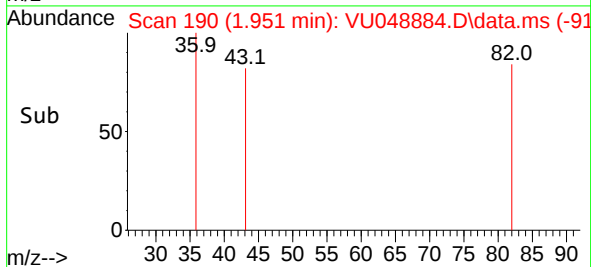
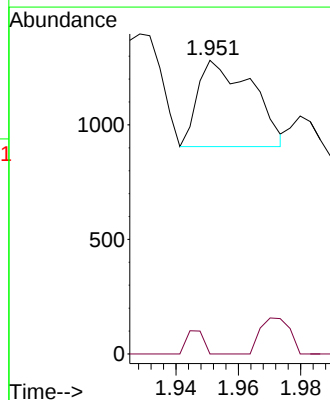
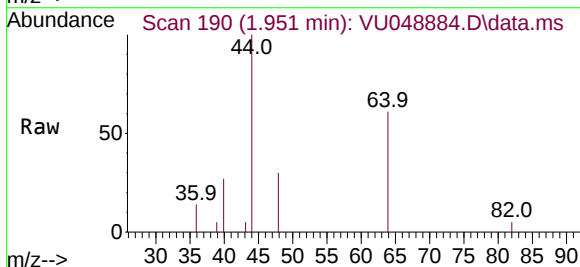
Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

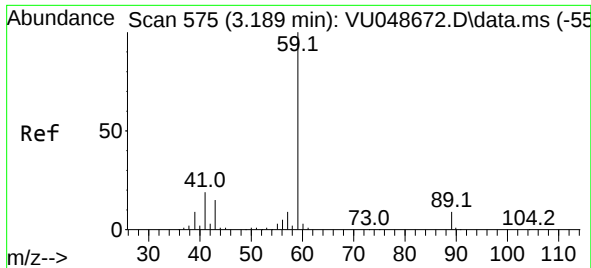
Tgt Ion: 94 Resp: 162
Ion Ratio Lower Upper
94 100
96 91.9 75.1 112.7



#6
Chloroethane
Concen: Below Cal
RT: 1.951 min Scan# 190
Delta R.T. 0.019 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion: 64 Resp: 455
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#

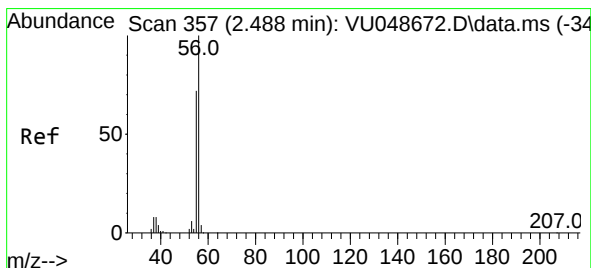
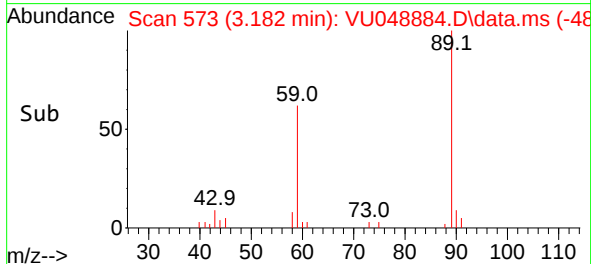
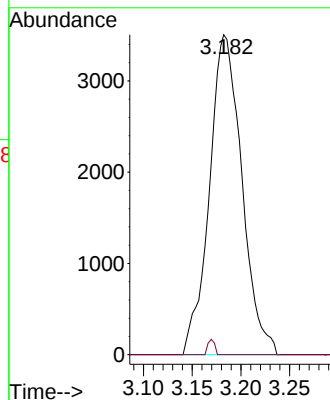
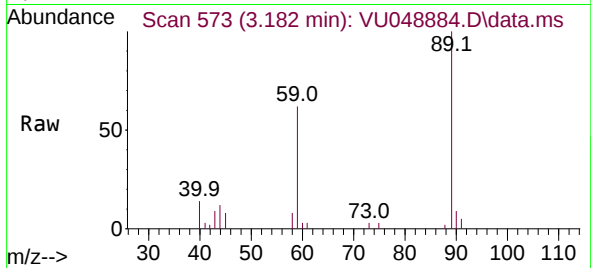




#11
Tert butyl alcohol
Concen: 7.989 ug/l
RT: 3.182 min Scan# 51
Delta R.T. -0.007 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

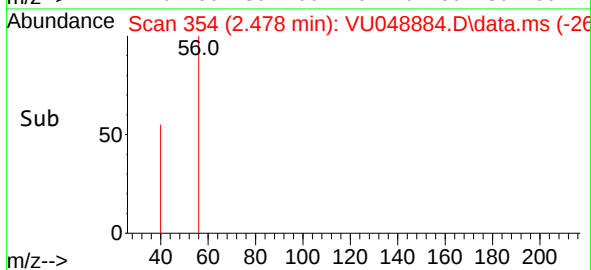
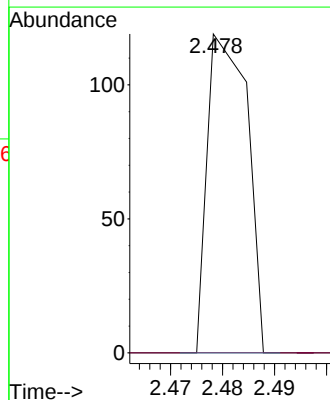
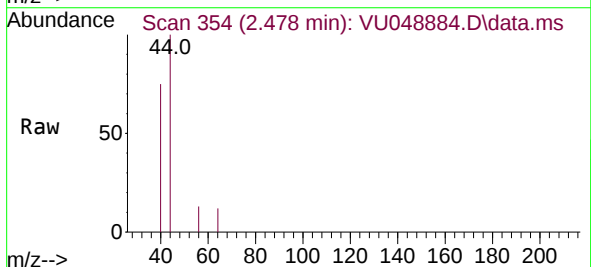
Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

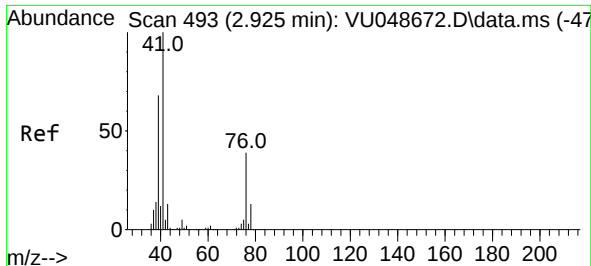
Tgt Ion: 59 Resp: 8122
Ion Ratio Lower Upper
59 100
57 1.0 39.7 59.5#



#13
Acrolein
Concen: Below Cal
RT: 2.478 min Scan# 354
Delta R.T. -0.010 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

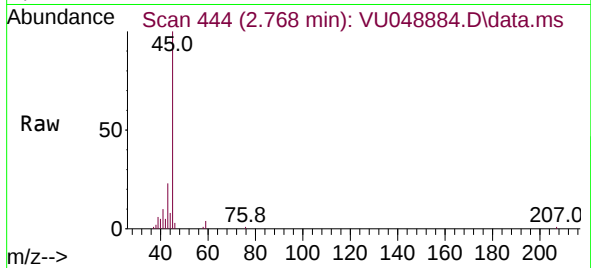
Tgt Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
55 0.0 57.7 86.5#



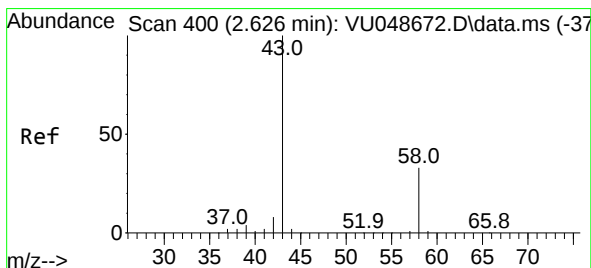
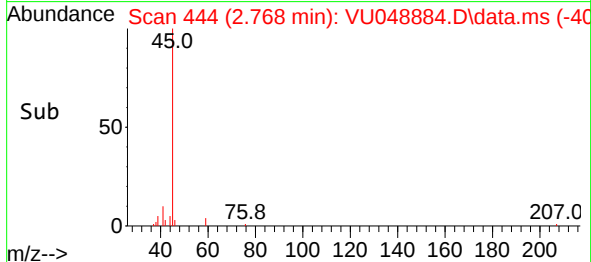
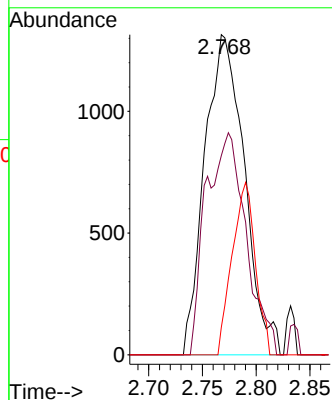


#14
 Allyl chloride
 Concen: 0.641 ug/l
 RT: 2.768 min Scan# 41
 Delta R.T. -0.158 min
 Lab File: VU048884.D
 Acq: 06 Jun 2022 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 65BR-20220531

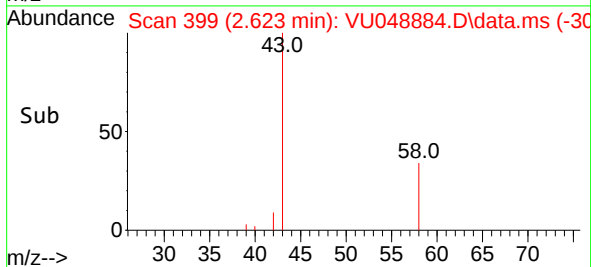
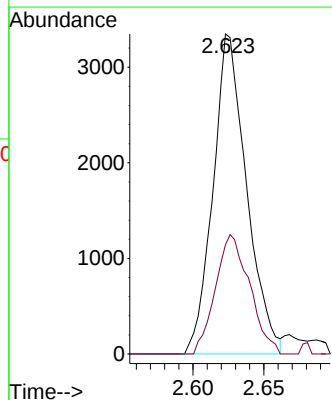
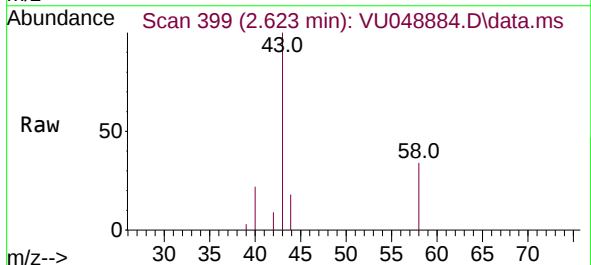


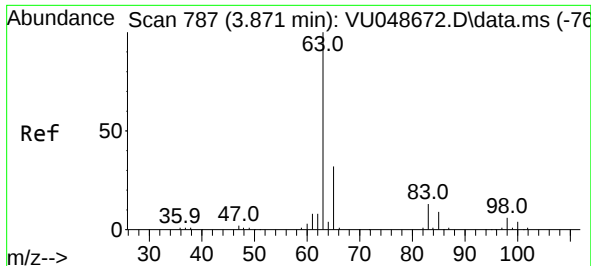
Tgt Ion: 41 Resp: 3372
 Ion Ratio Lower Upper
 41 100
 39 17.3 48.6 72.8#
 76 0.0 27.0 40.4#



#16
 Acetone
 Concen: 2.697 ug/l
 RT: 2.623 min Scan# 399
 Delta R.T. -0.003 min
 Lab File: VU048884.D
 Acq: 06 Jun 2022 15:54

Tgt Ion: 43 Resp: 5511
 Ion Ratio Lower Upper
 43 100
 58 34.1 26.3 39.5

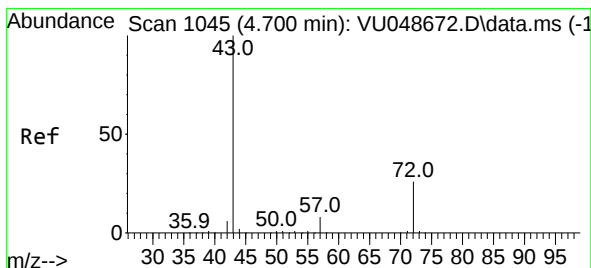
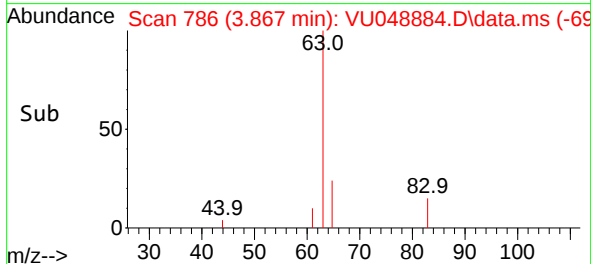
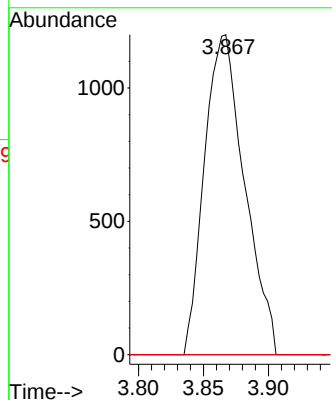
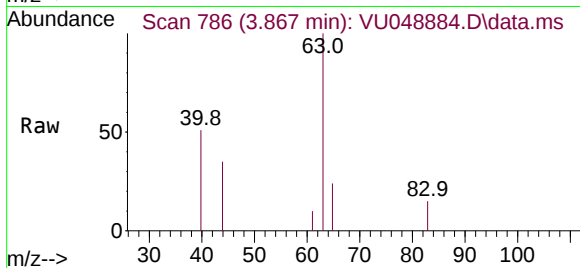




#24
1,1-Dichloroethane
Concen: 0.423 ug/l
RT: 3.867 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

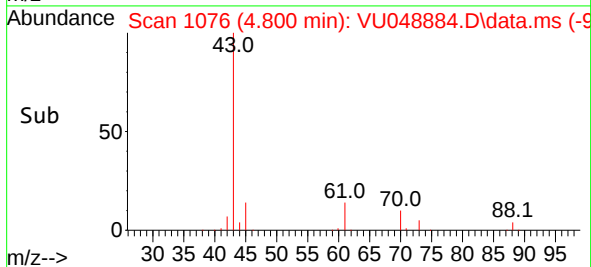
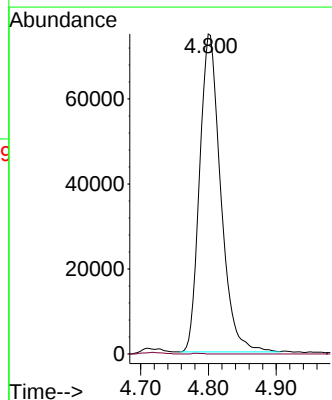
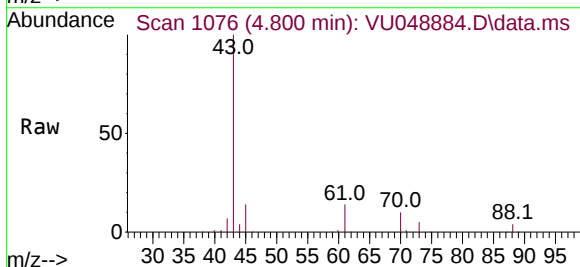
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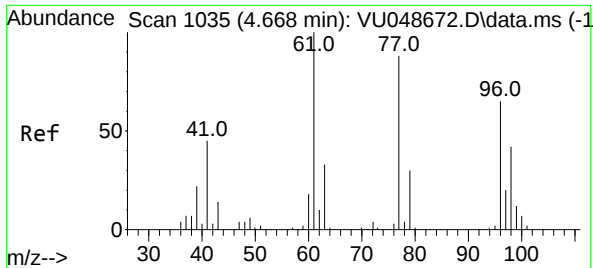
Tgt Ion: 63 Resp: 2579
Ion Ratio Lower Upper
63 100
98 0.0 3.1 9.3#
100 0.0 2.0 5.8#



#25
2-Butanone
Concen: 54.988 ug/l
RT: 4.800 min Scan# 1076
Delta R.T. 0.100 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion: 43 Resp: 161438
Ion Ratio Lower Upper
43 100
72 0.0 21.1 31.7#





#27

cis-1,2-Dichloroethene

Concen: 10.836 ug/l

RT: 4.668 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

Instrument :

MSVOA_U

ClientSampleId :

65BR-20220531

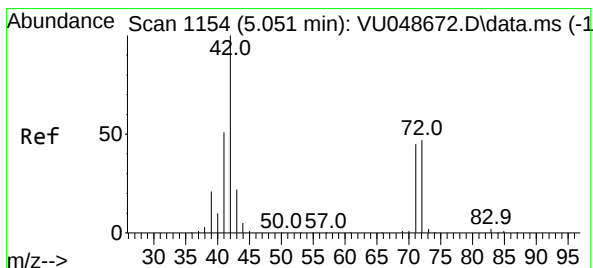
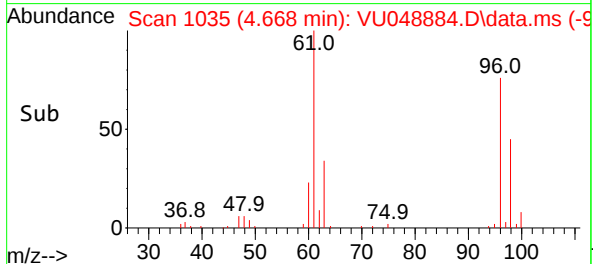
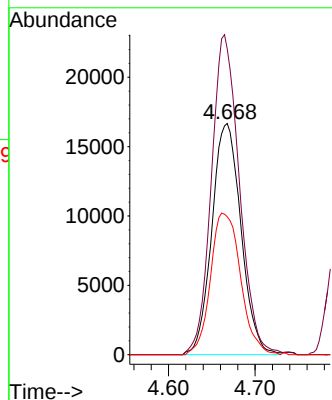
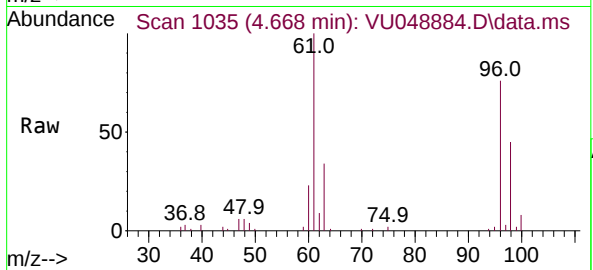
Tgt Ion: 96 Resp: 38990

Ion Ratio Lower Upper

96 100

61 133.4 0.0 306.2

98 63.1 0.0 130.4



#29

Tetrahydrofuran

Concen: 1.160 ug/l

RT: 5.057 min Scan# 1156

Delta R.T. 0.006 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

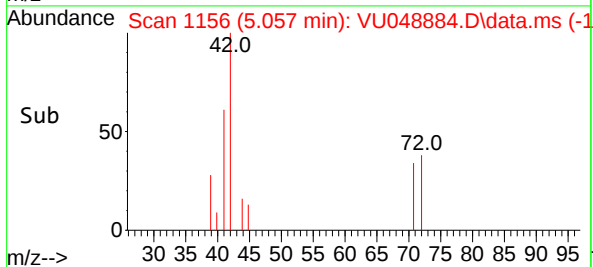
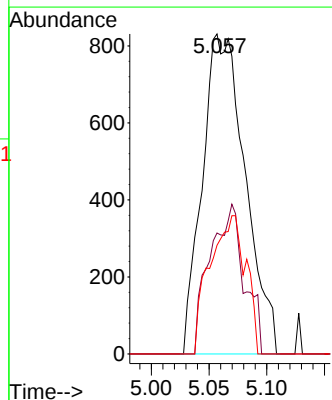
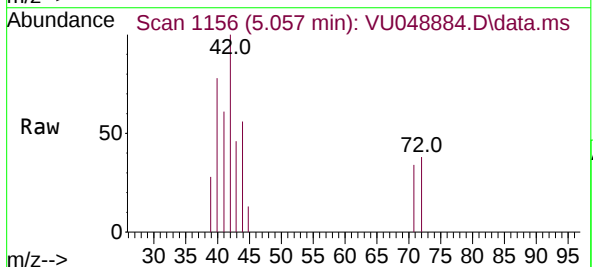
Tgt Ion: 42 Resp: 2145

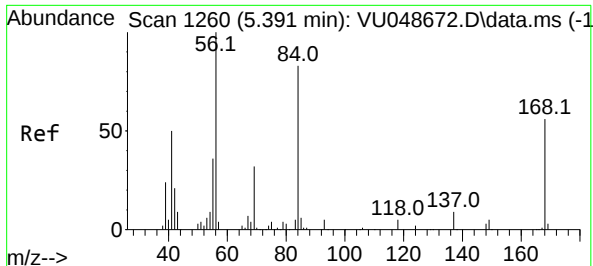
Ion Ratio Lower Upper

42 100

72 37.5 37.6 56.4#

71 36.2 35.0 52.4





#31

Cyclohexane

Concen: 1.170 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.023 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

Instrument :

MSVOA_U

ClientSampleId :

65BR-20220531

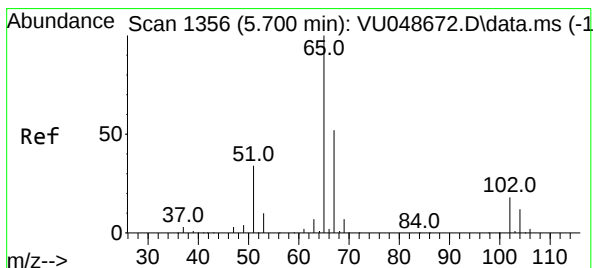
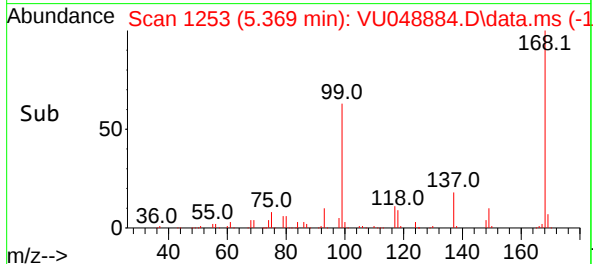
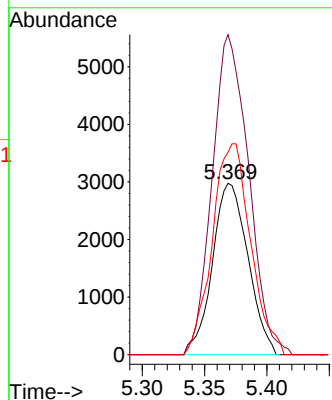
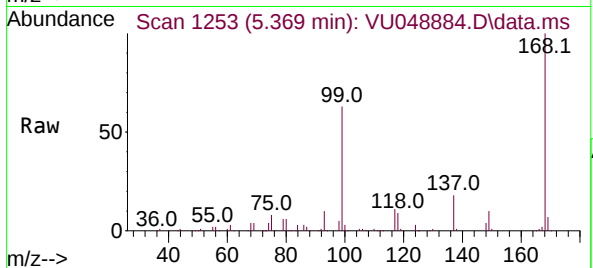
Tgt Ion: 56 Resp: 5914

Ion Ratio Lower Upper

56 100

69 186.8 25.6 38.4#

84 118.2 66.2 99.4#



#33

1,2-Dichloroethane-d4

Concen: 49.030 ug/l

RT: 5.700 min Scan# 1356

Delta R.T. -0.000 min

Lab File: VU048884.D

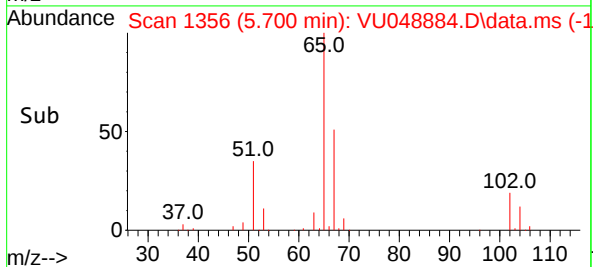
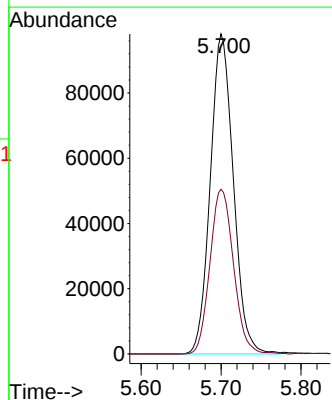
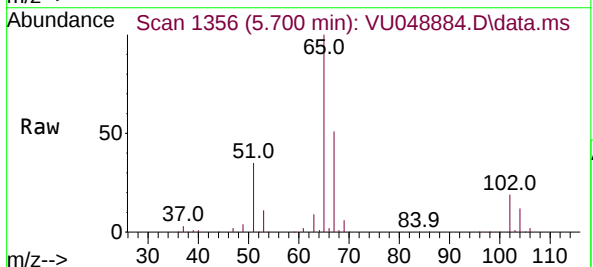
Acq: 06 Jun 2022 15:54

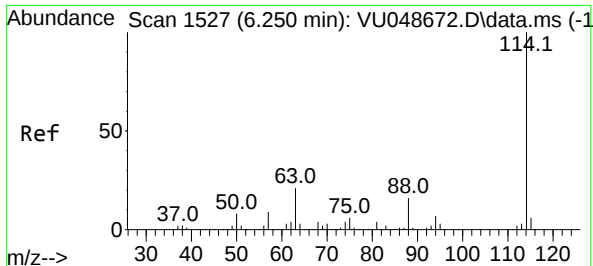
Tgt Ion: 65 Resp: 196616

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

Instrument :

MSVOA_U

ClientSampleId :

65BR-20220531

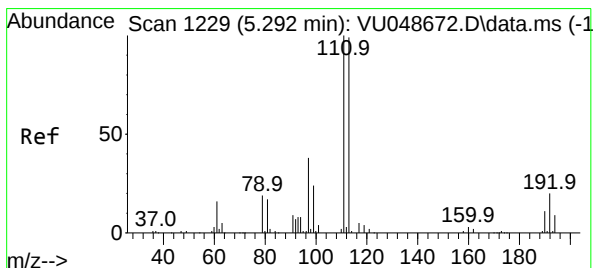
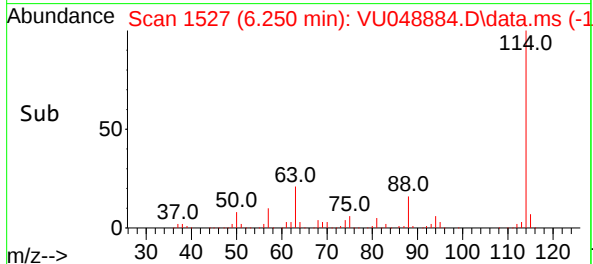
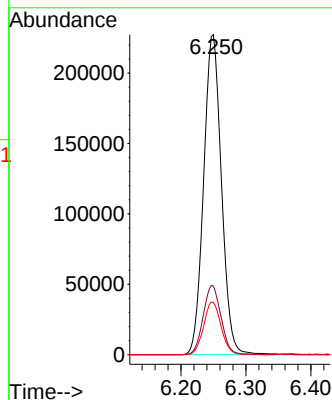
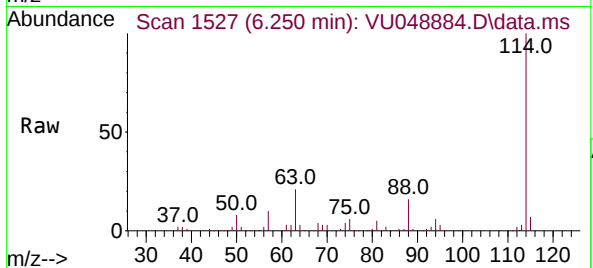
Tgt Ion:114 Resp: 434226

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

88 16.4 0.0 32.2



#35

Dibromofluoromethane

Concen: 46.738 ug/l

RT: 5.288 min Scan# 1228

Delta R.T. -0.003 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

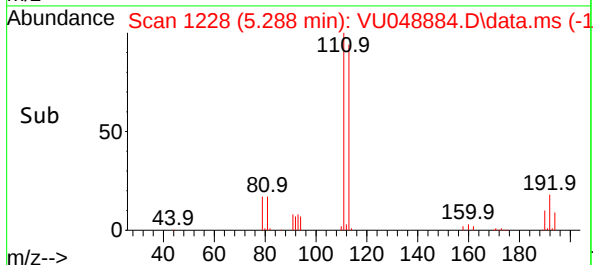
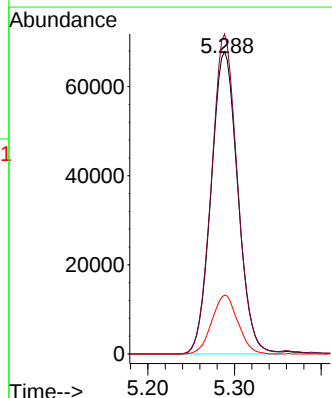
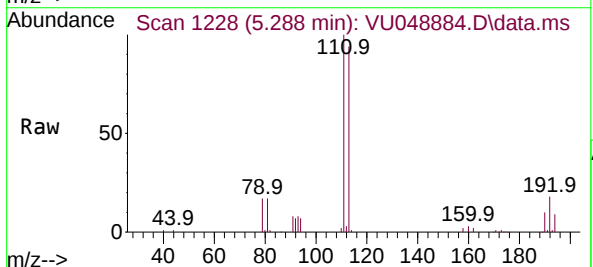
Tgt Ion:113 Resp: 144787

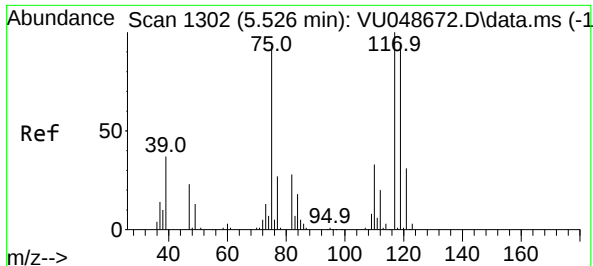
Ion Ratio Lower Upper

113 100

111 103.6 80.7 121.1

192 19.0 15.9 23.9

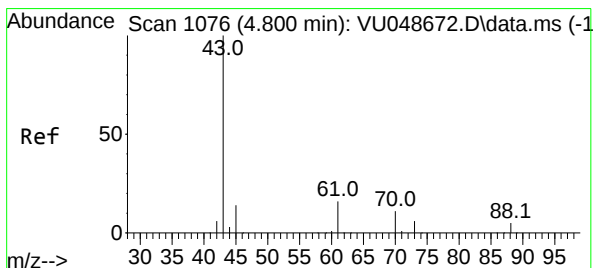
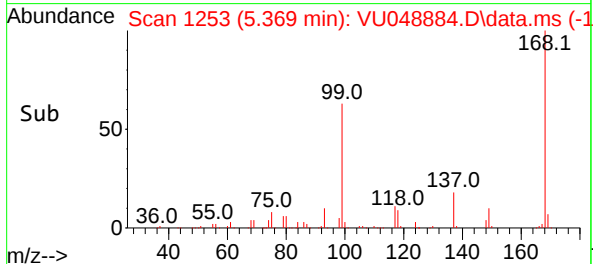
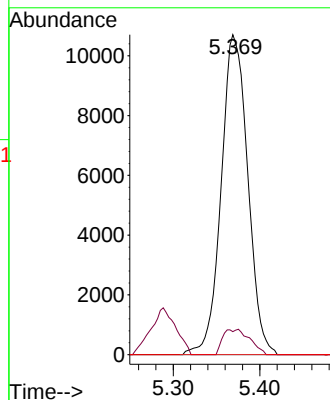
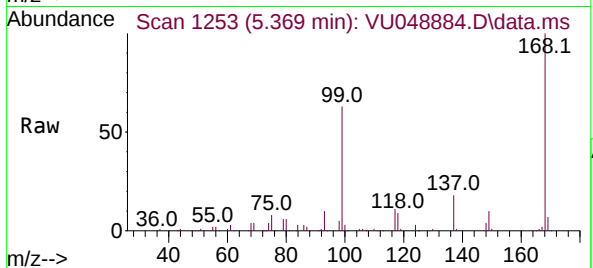




#36
1,1-Dichloropropene
Concen: 5.053 ug/l
RT: 5.369 min Scan# 11
Delta R.T. -0.158 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

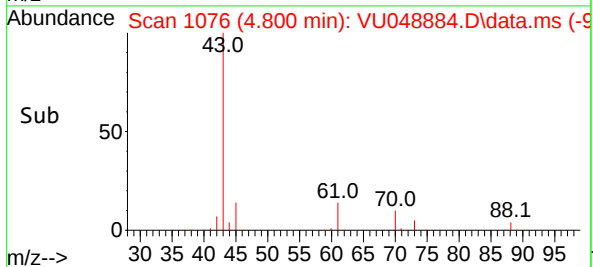
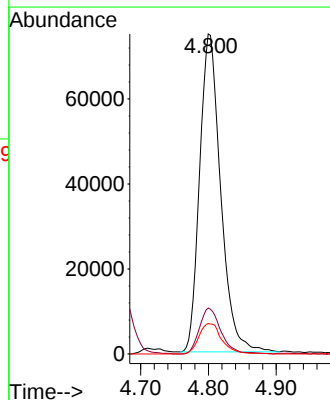
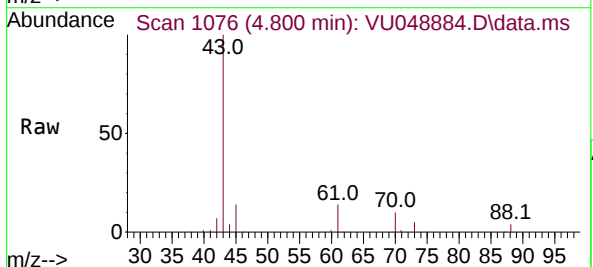
Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

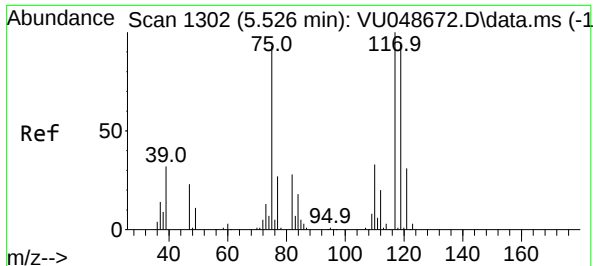
Tgt Ion: 75 Resp: 22847
Ion Ratio Lower Upper
75 100
110 3.3 17.4 52.3#
77 0.0 24.8 37.2#



#37
Ethyl Acetate
Concen: 28.244 ug/l
RT: 4.800 min Scan# 1076
Delta R.T. -0.000 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

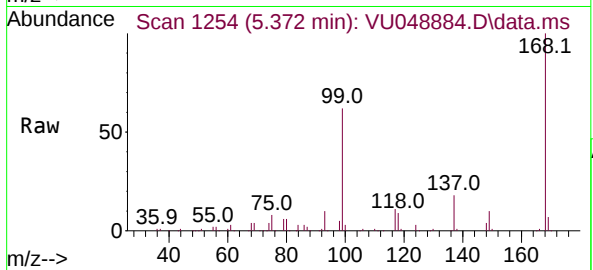
Tgt Ion: 43 Resp: 161438
Ion Ratio Lower Upper
43 100
61 14.8 11.7 17.5
70 10.3 8.4 12.6



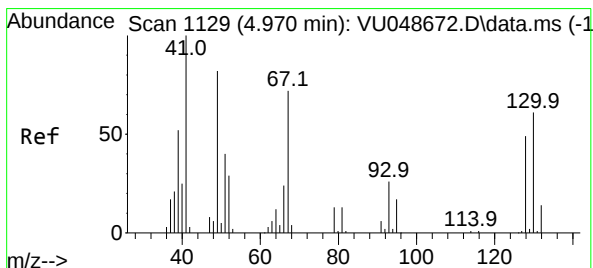
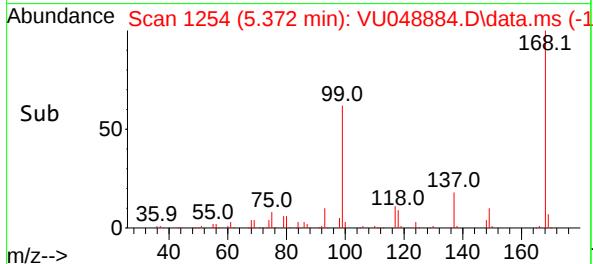
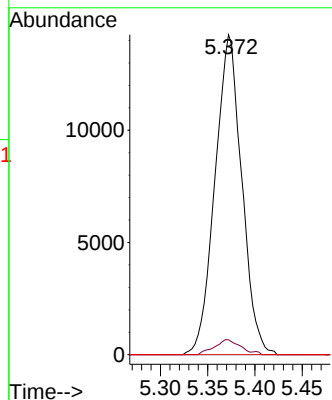


#38
Carbon Tetrachloride
Concen: 5.416 ug/l
RT: 5.372 min Scan# 1158
Delta R.T. -0.154 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

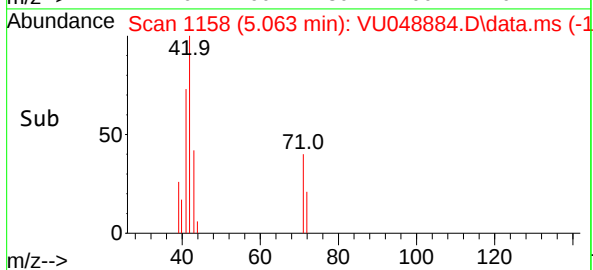
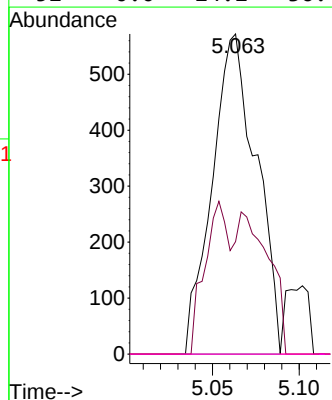
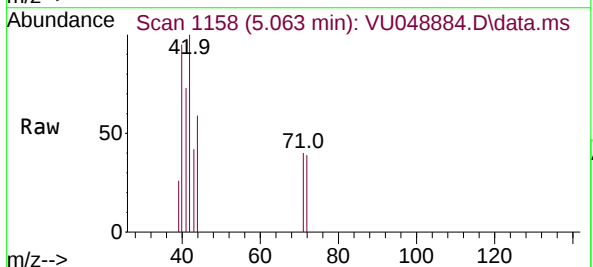


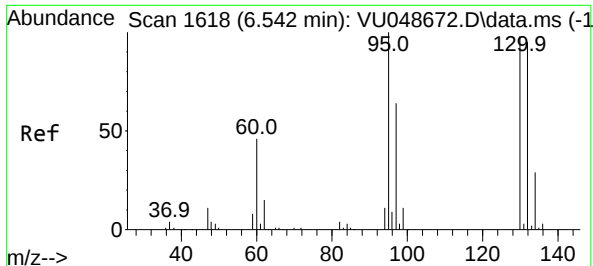
Tgt Ion:117 Resp: 28093
Ion Ratio Lower Upper
117 100
119 4.6 75.4 113.2#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 0.352 ug/l
RT: 5.063 min Scan# 1158
Delta R.T. 0.093 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion: 41 Resp: 1016
Ion Ratio Lower Upper
41 100
39 29.8 42.6 64.0#
67 0.0 61.0 91.4#
52 0.0 24.2 36.4#

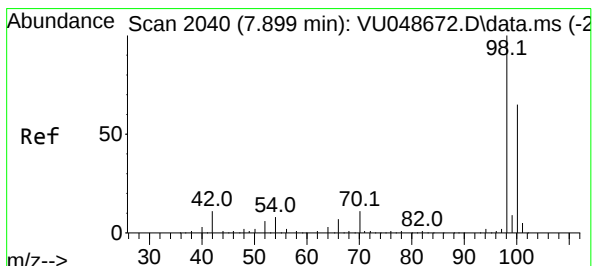
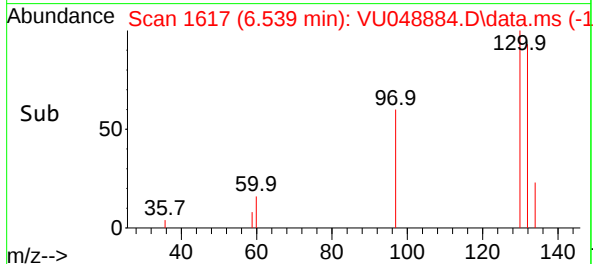
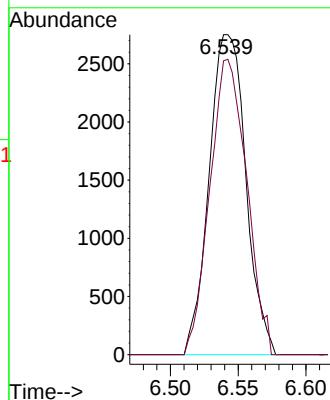
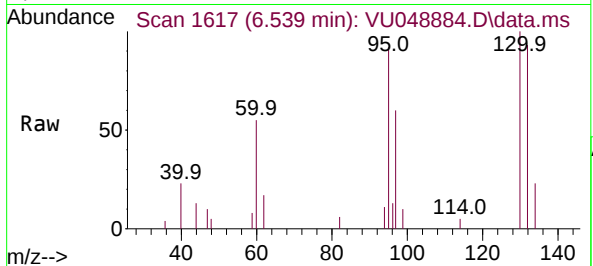




#44
Trichloroethene
Concen: 1.508 ug/l
RT: 6.539 min Scan# 10
Delta R.T. -0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

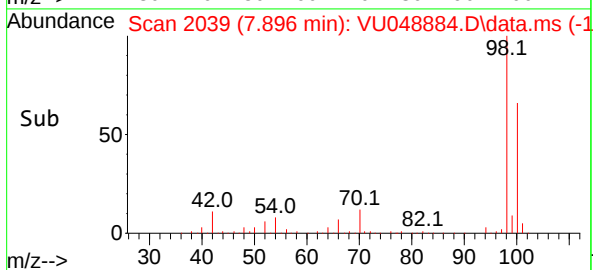
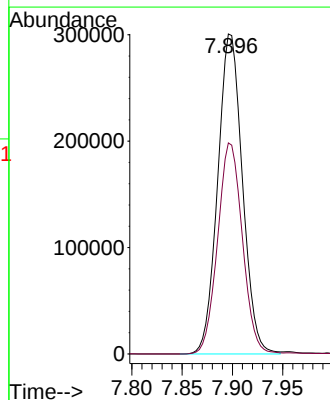
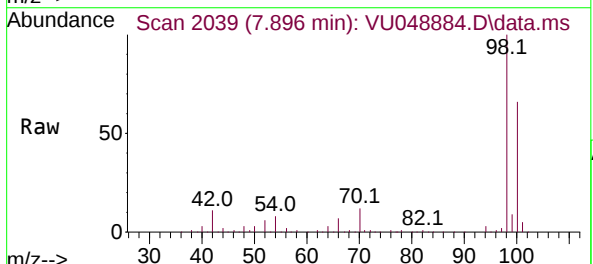
Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

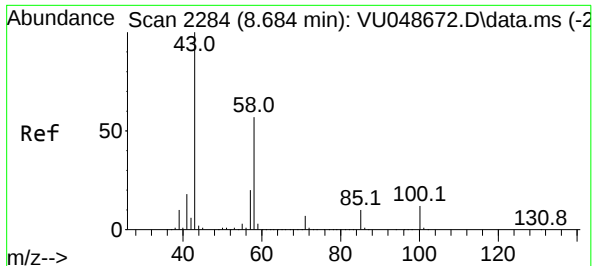
Tgt Ion:130 Resp: 5185
Ion Ratio Lower Upper
130 100
95 91.9 0.0 204.8



#50
Toluene-d8
Concen: 46.334 ug/l
RT: 7.896 min Scan# 2039
Delta R.T. -0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion: 98 Resp: 514523
Ion Ratio Lower Upper
98 100
100 66.4 52.2 78.4





#59

2-Hexanone

Concen: 0.232 ug/l

RT: 8.693 min Scan# 21

Delta R.T. 0.010 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

Instrument :

MSVOA_U

ClientSampleId :

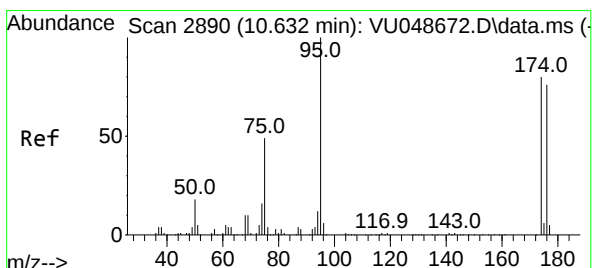
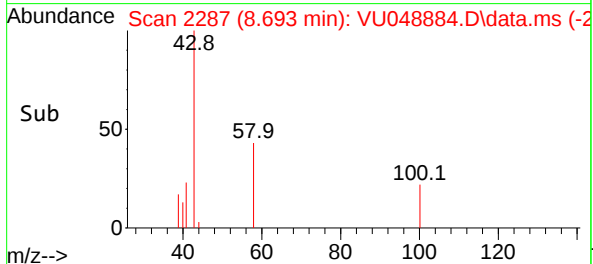
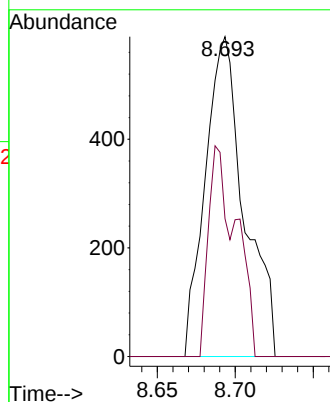
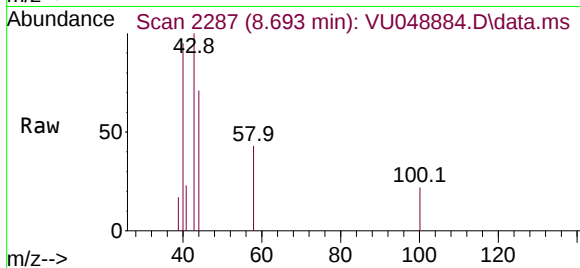
65BR-20220531

Tgt Ion: 43 Resp: 1027

Ion Ratio Lower Upper

43 100

58 31.2 28.2 84.6



#62

4-Bromofluorobenzene

Concen: 44.419 ug/l

RT: 10.632 min Scan# 2890

Delta R.T. -0.000 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

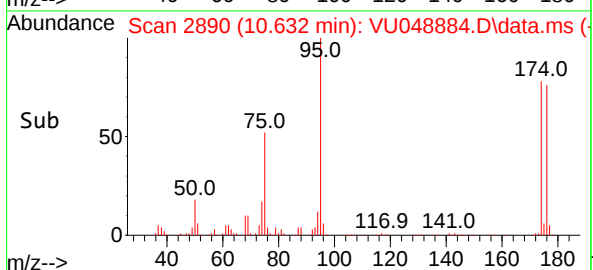
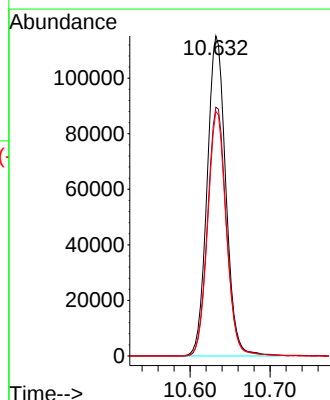
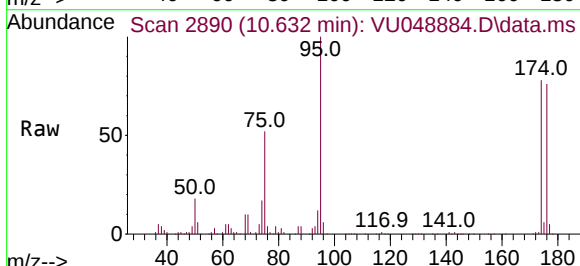
Tgt Ion: 95 Resp: 186546

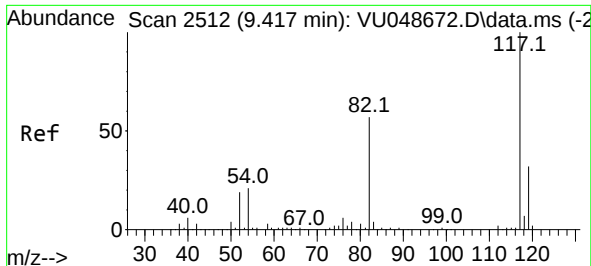
Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.4

176 75.8 0.0 152.4

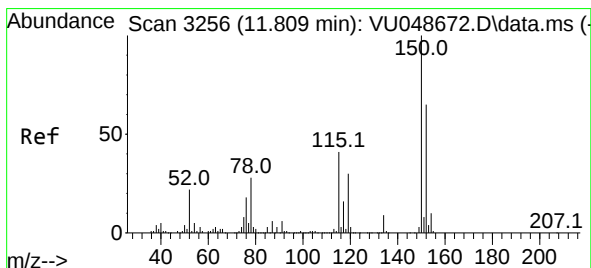
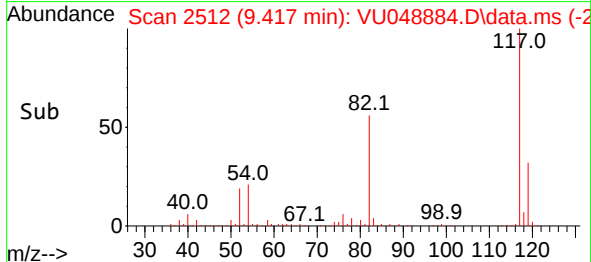
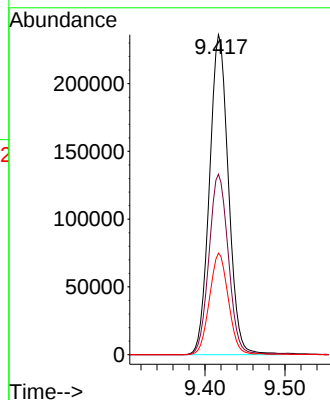
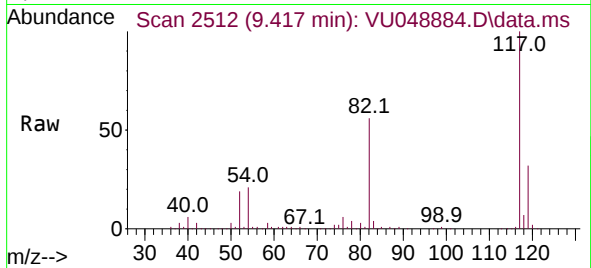




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

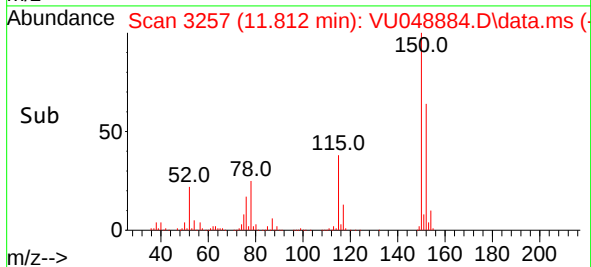
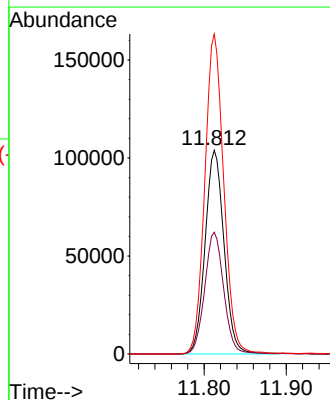
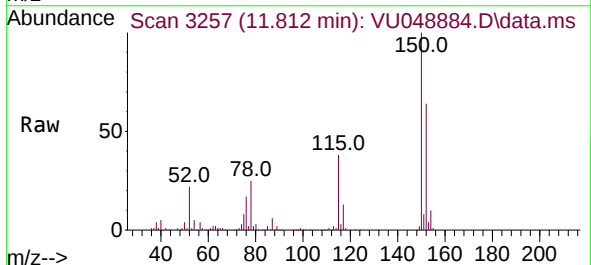
Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

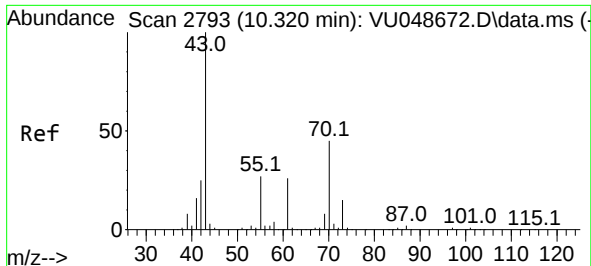
Tgt Ion:117 Resp: 388896
Ion Ratio Lower Upper
117 100
82 56.4 45.3 67.9
119 31.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. 0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion:152 Resp: 166521
Ion Ratio Lower Upper
152 100
115 60.1 41.8 125.4
150 157.1 0.0 341.0

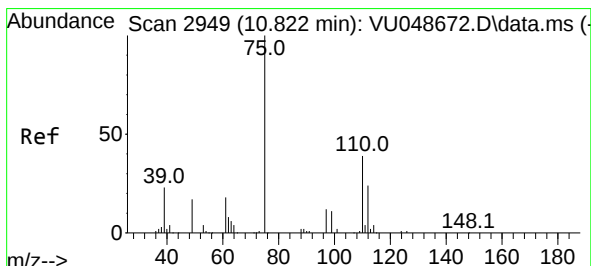
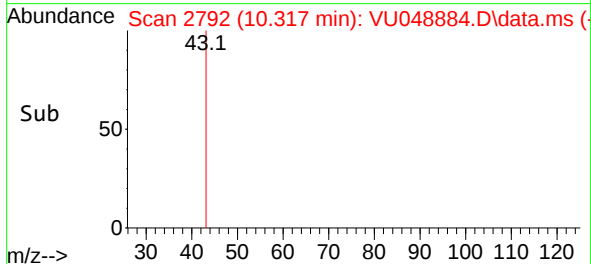
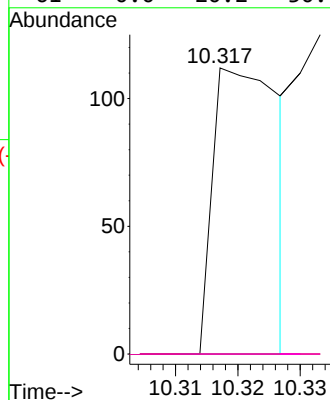
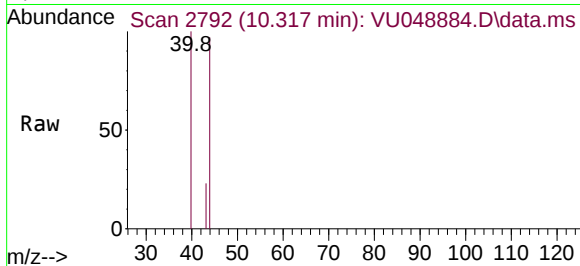




#74
N-amy1 acetate
Concen: 2.481 ug/l
RT: 10.317 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

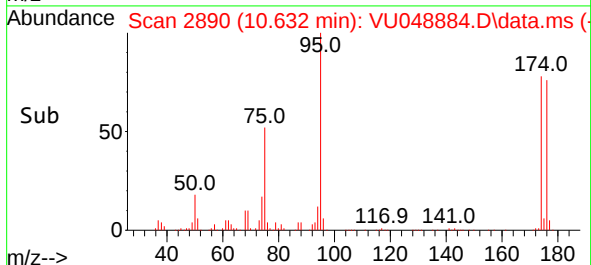
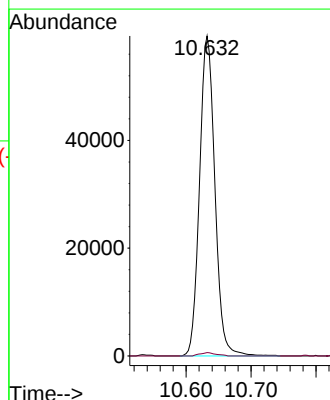
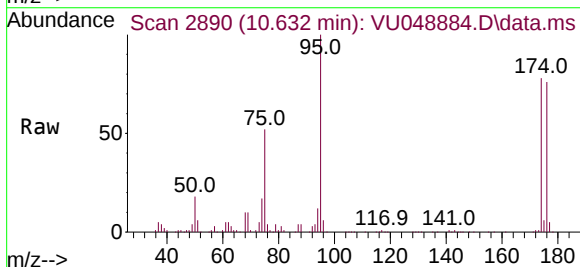
Instrument :
MSVOA_U
ClientSampleId :
65BR-20220531

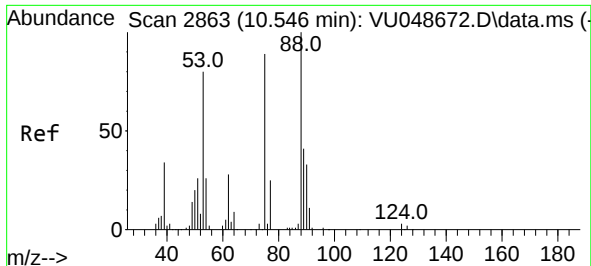
Tgt Ion:	43	Resp:	83
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.8	53.6#
55	0.0	21.1	31.7#
61	0.0	20.2	30.4#



#76
1,2,3-Trichloropropane
Concen: 18.231 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.190 min
Lab File: VU048884.D
Acq: 06 Jun 2022 15:54

Tgt Ion:	75	Resp:	97881
Ion	Ratio	Lower	Upper
75	100		
77	1.1	14.8	44.3#

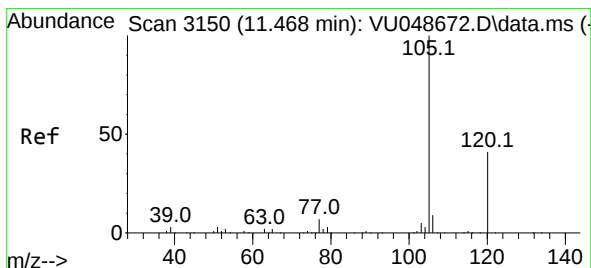
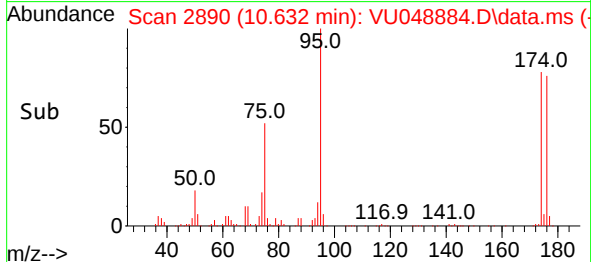
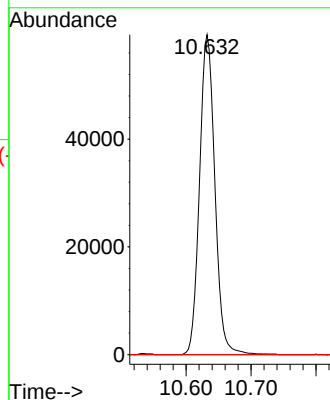
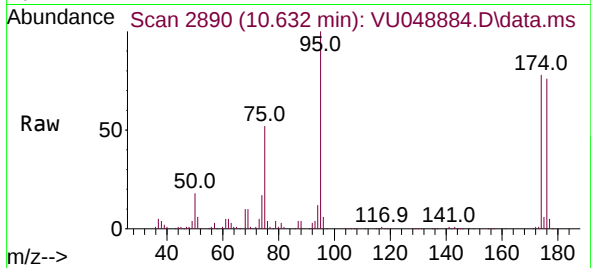




#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.193 ug/l
 RT: 10.632 min Scan# 21
 Delta R.T. 0.087 min
 Lab File: VU048884.D
 Acq: 06 Jun 2022 15:54

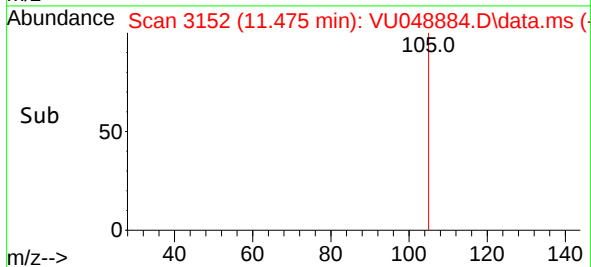
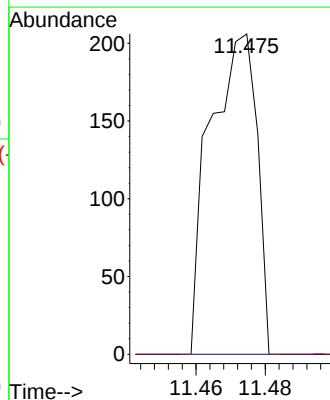
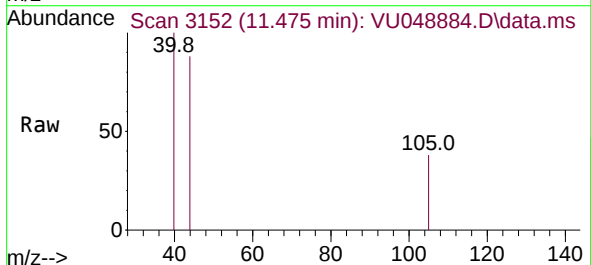
Instrument :
 MSVOA_U
 ClientSampleId :
 65BR-20220531

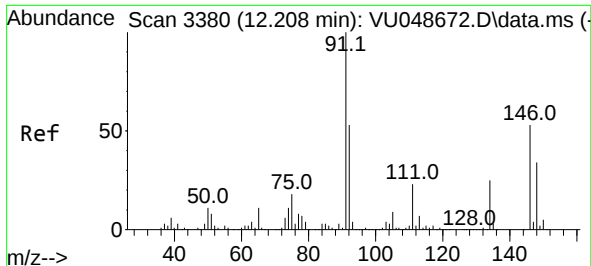
Tgt Ion: 75 Resp: 97881
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.5 108.7#
 89 0.0 37.0 55.4#



#84
 1,2,4-Trimethylbenzene
 Concen: 1.206 ug/l
 RT: 11.475 min Scan# 3152
 Delta R.T. 0.007 min
 Lab File: VU048884.D
 Acq: 06 Jun 2022 15:54

Tgt Ion: 105 Resp: 193
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.5 67.5#





#89

n-Butylbenzene

Concen: 2.213 ug/l

RT: 12.204 min Scan# 31

Delta R.T. -0.004 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

Instrument :

MSVOA_U

ClientSampleId :

65BR-20220531

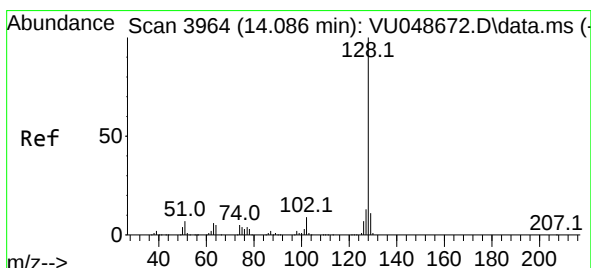
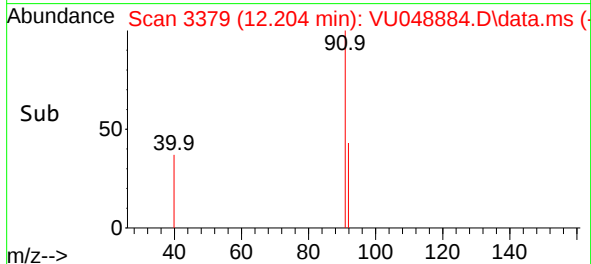
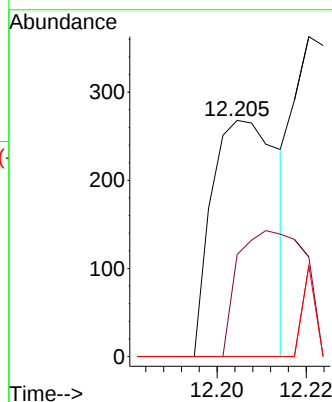
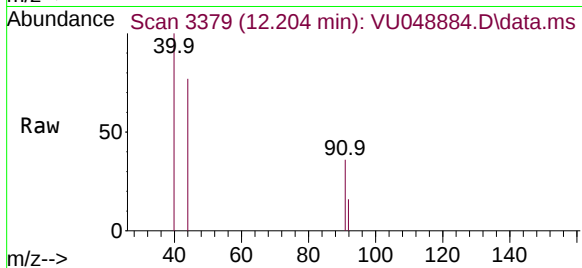
Tgt Ion: 91 Resp: 275

Ion Ratio Lower Upper

91 100

92 54.5 25.9 77.8

134 0.0 12.5 37.5#



#95

Naphthalene

Concen: 2.723 ug/l

RT: 14.098 min Scan# 3968

Delta R.T. 0.012 min

Lab File: VU048884.D

Acq: 06 Jun 2022 15:54

Tgt Ion:128 Resp: 2626

Ion Ratio Lower Upper

128 100

127 6.0 10.2 15.4#

129 2.7 8.7 13.1#

