

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060622\  
 Data File : VU048888.D  
 Acq On : 06 Jun 2022 17:29  
 Operator : SY/MD  
 Sample : N3165-19  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 43BR-20220601

Quant Time: Jun 07 05:19:10 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

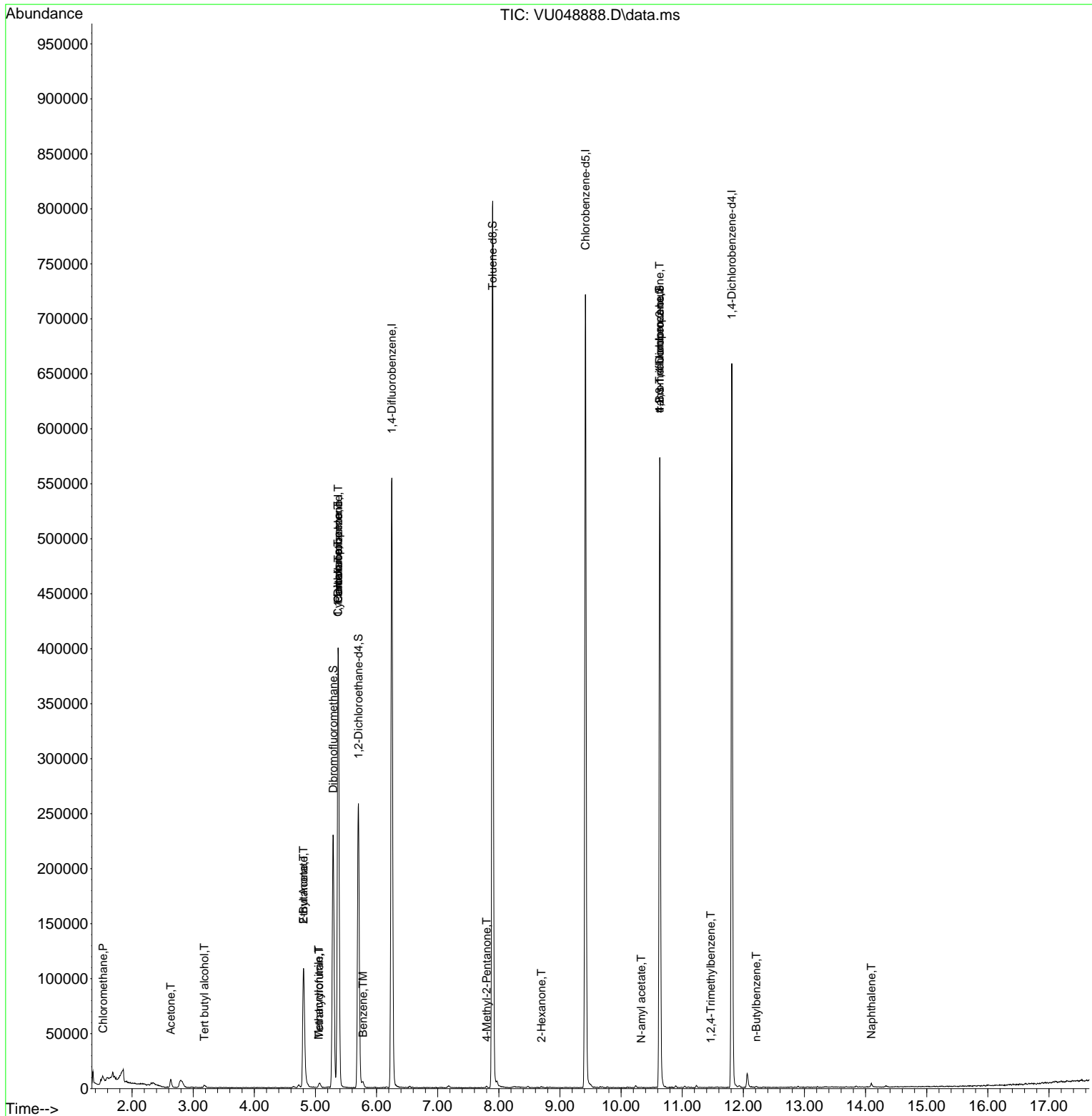
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Internal Standards						
1) Pentafluorobenzene	5.372	168	270244	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	444345	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	397408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	173224	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	198795	48.982	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	97.960%
35) Dibromofluoromethane	5.292	113	150187	47.377	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.760%
50) Toluene-d8	7.899	98	530006	46.641	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	93.280%
62) 4-Bromofluorobenzene	10.632	95	189927	44.194	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	88.380%
Target Compounds						
						Qvalue
3) Chloromethane	1.527	50	1446	0.363	ug/l #	65
5) Bromomethane	1.845	94	277	Below Cal		95
6) Chloroethane	1.890	64	292	Below Cal	#	87
11) Tert butyl alcohol	3.183	59	1838	1.786	ug/l #	28
13) Acrolein	2.488	56	19	Below Cal	#	60
16) Acetone	2.633	43	8240	3.984	ug/l #	84
25) 2-Butanone	4.806	43	151491	50.984	ug/l #	49
29) Tetrahydrofuran	5.064	42	3228	1.725	ug/l #	87
31) Cyclohexane	5.369	56	5752	1.125	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	22263	4.812	ug/l #	49
37) Ethyl Acetate	4.806	43	151491	25.901	ug/l	99
38) Carbon Tetrachloride	5.372	117	27594	5.199	ug/l #	17
40) Benzene	5.777	78	4674	0.342	ug/l	97
41) Methacrylonitrile	5.054	41	771	0.261	ug/l #	30
51) 4-Methyl-2-Pentanone	7.800	43	1136	0.206	ug/l #	79
59) 2-Hexanone	8.697	43	1019	0.225	ug/l	64
74) N-amyl acetate	10.330	43	198	2.500	ug/l #	41
76) 1,2,3-Trichloropropane	10.632	75	98322	17.604	ug/l #	47
81) trans-1,4-Dichloro-2-b...	10.632	75	98322	63.918	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.468	105	338	1.218	ug/l #	31
89) n-Butylbenzene	12.211	91	554	2.238	ug/l #	52
95) Naphthalene	14.095	128	3979	2.810	ug/l #	83

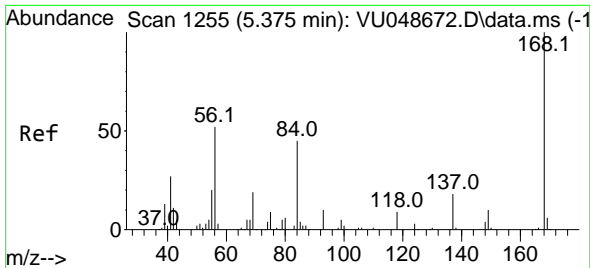
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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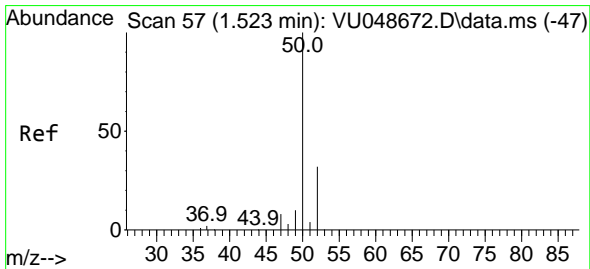
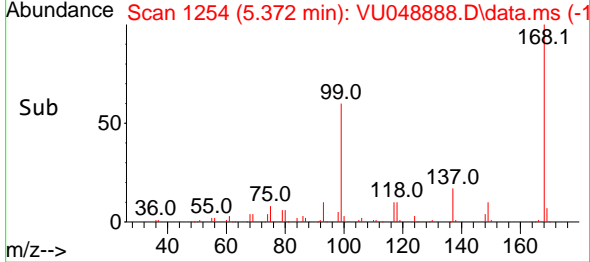
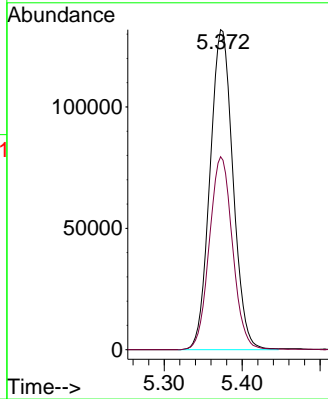
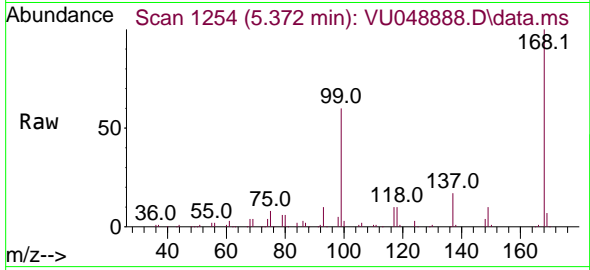




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.372 min Scan# 11  
 Delta R.T. -0.003 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

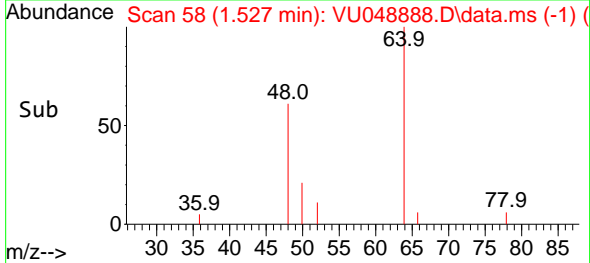
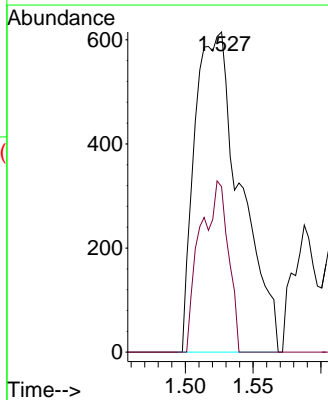
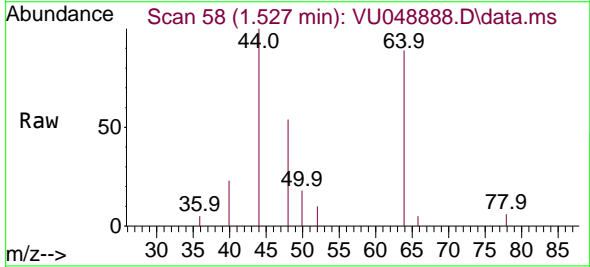
Instrument :  
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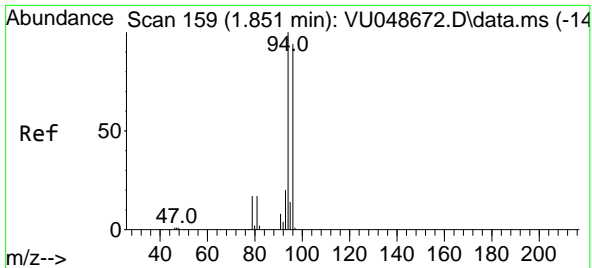
Tgt Ion:168 Resp: 270244  
 Ion Ratio Lower Upper  
 168 100  
 99 60.3 49.3 73.9



#3  
 Chloromethane  
 Concen: 0.363 ug/l  
 RT: 1.527 min Scan# 58  
 Delta R.T. 0.003 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion: 50 Resp: 1446  
 Ion Ratio Lower Upper  
 50 100  
 52 51.7 25.7 38.5#

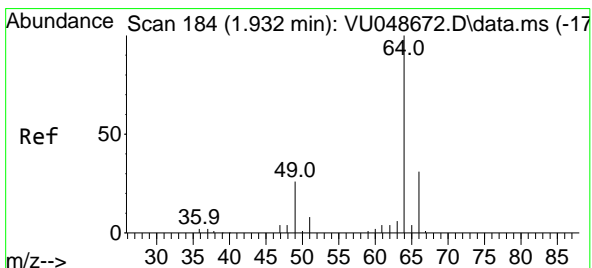
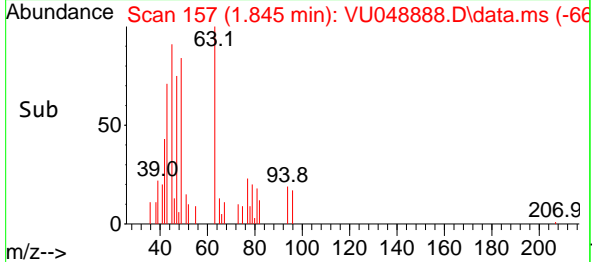
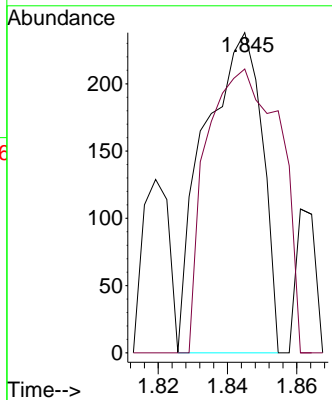
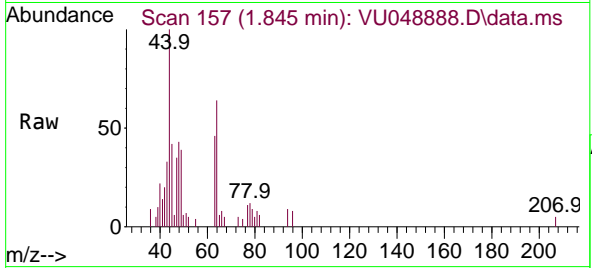




#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.845 min Scan# 111  
 Delta R.T. -0.006 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

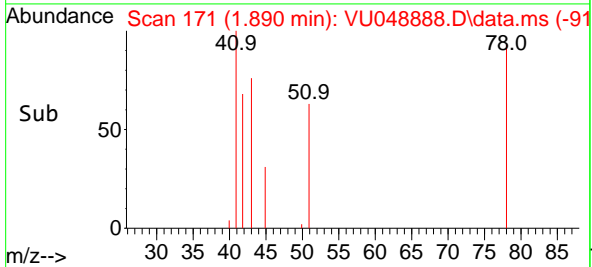
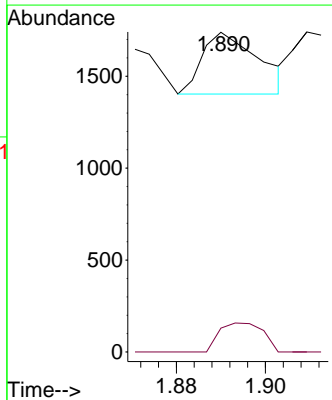
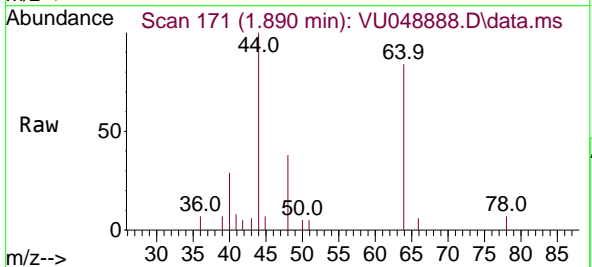
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

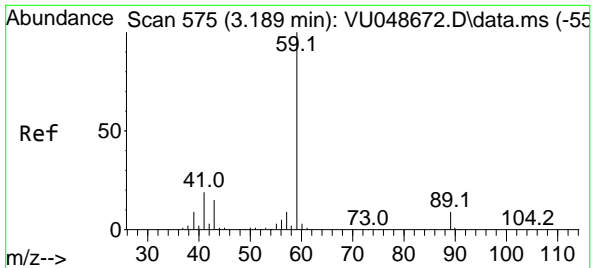
Tgt Ion: 94 Resp: 277  
 Ion Ratio Lower Upper  
 94 100  
 96 88.7 75.1 112.7



#6  
 Chloroethane  
 Concen: Below Cal  
 RT: 1.890 min Scan# 171  
 Delta R.T. -0.042 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion: 64 Resp: 292  
 Ion Ratio Lower Upper  
 64 100  
 66 38.7 25.2 37.8#

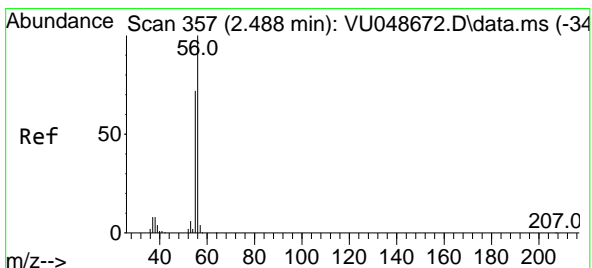
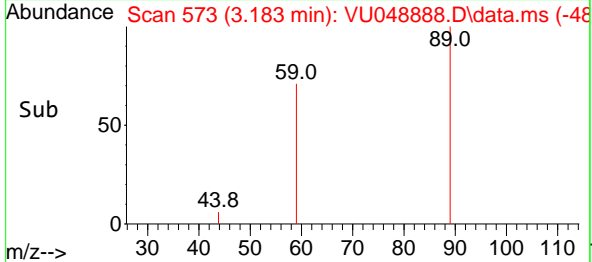
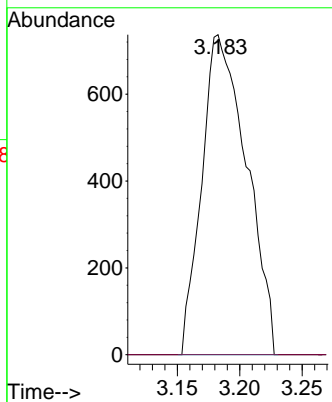
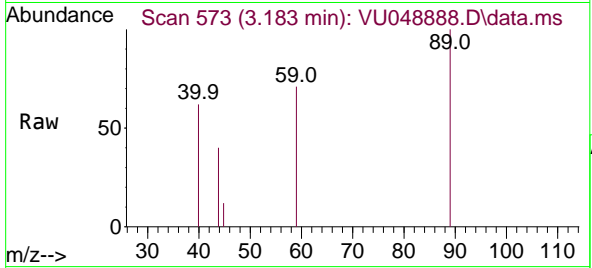




#11  
 Tert butyl alcohol  
 Concen: 1.786 ug/l  
 RT: 3.183 min Scan# 51  
 Delta R.T. -0.006 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

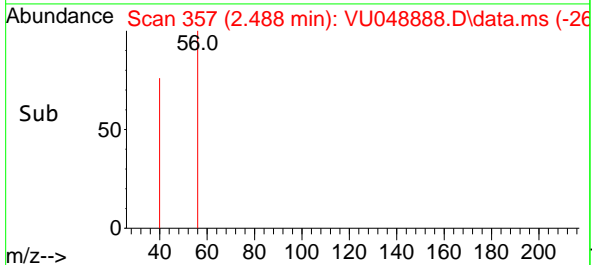
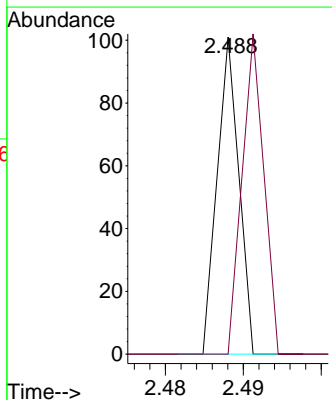
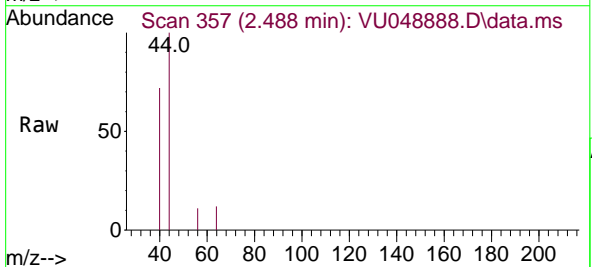
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

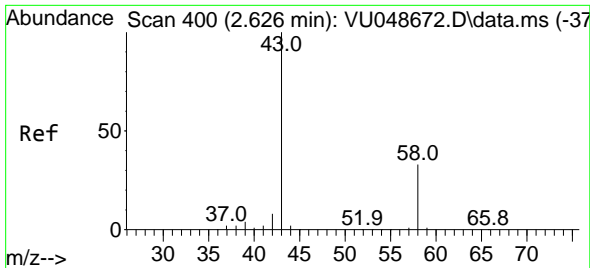
Tgt Ion: 59 Resp: 1838  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 39.7 59.5#



#13  
 Acrolein  
 Concen: Below Cal  
 RT: 2.488 min Scan# 357  
 Delta R.T. 0.000 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

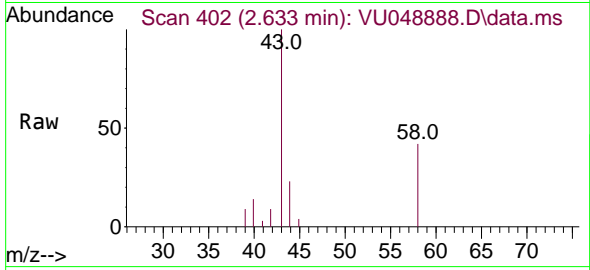
Tgt Ion: 56 Resp: 19  
 Ion Ratio Lower Upper  
 56 100  
 55 105.3 57.7 86.5#



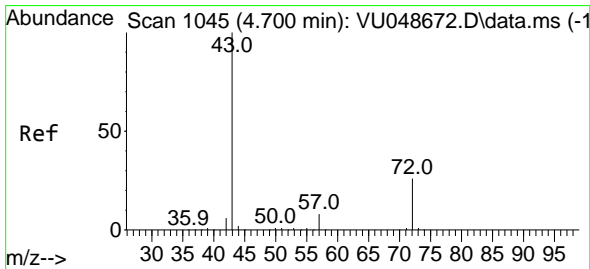
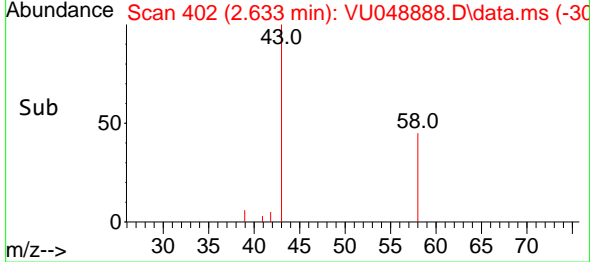
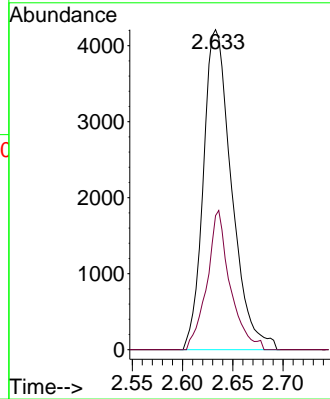


#16  
 Acetone  
 Concen: 3.984 ug/l  
 RT: 2.633 min Scan# 40  
 Delta R.T. 0.007 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

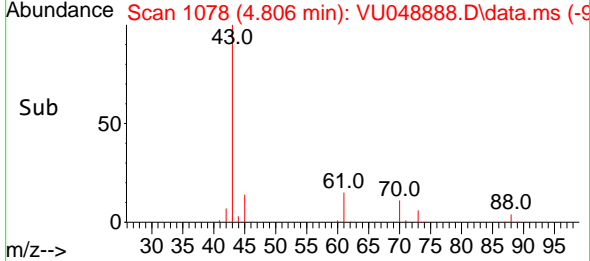
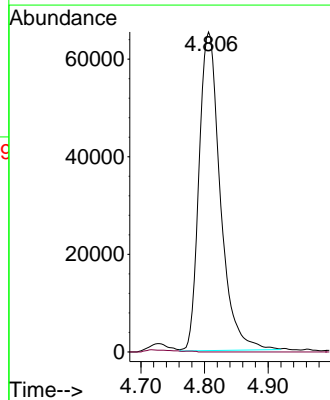
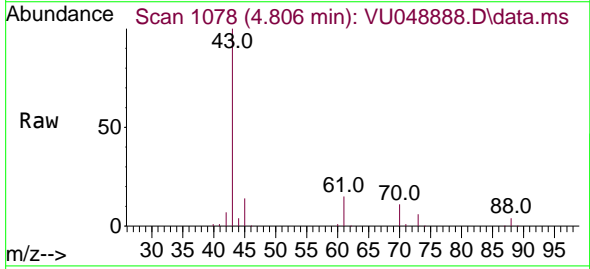


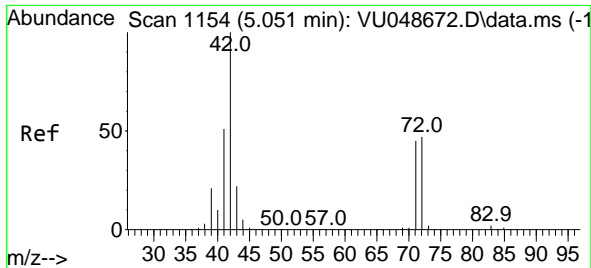
Tgt Ion: 43 Resp: 8240  
 Ion Ratio Lower Upper  
 43 100  
 58 41.9 26.3 39.5#



#25  
 2-Butanone  
 Concen: 50.984 ug/l  
 RT: 4.806 min Scan# 1078  
 Delta R.T. 0.106 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

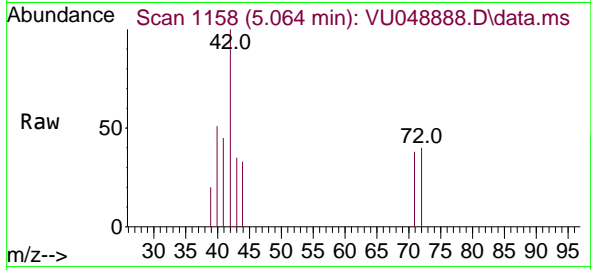
Tgt Ion: 43 Resp: 151491  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 21.1 31.7#





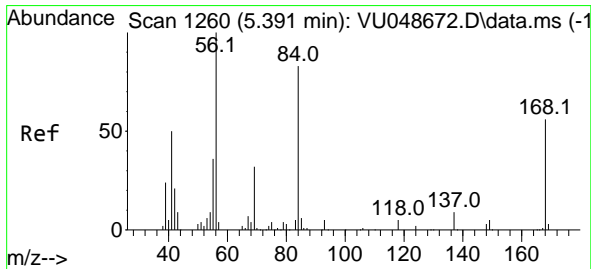
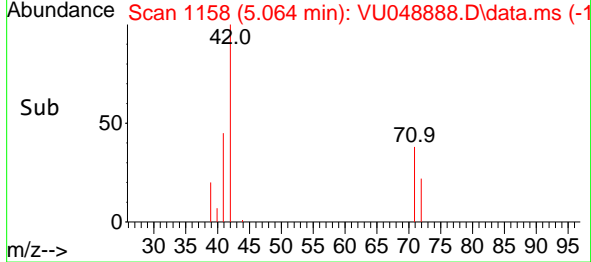
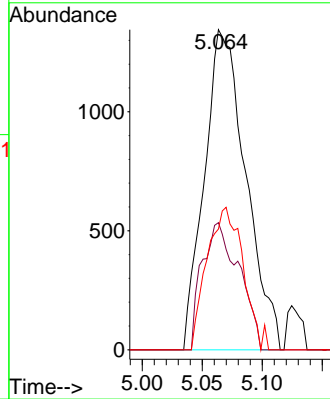
#29  
 Tetrahydrofuran  
 Concen: 1.725 ug/l  
 RT: 5.064 min Scan# 1158  
 Delta R.T. 0.013 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601



Tgt Ion: 42 Resp: 3228

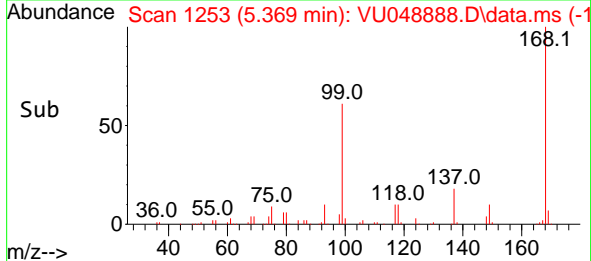
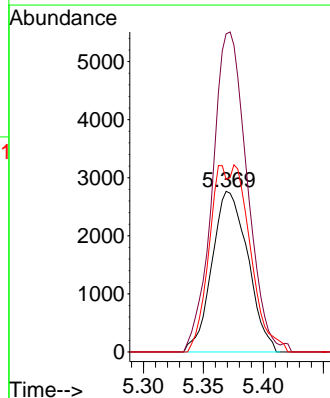
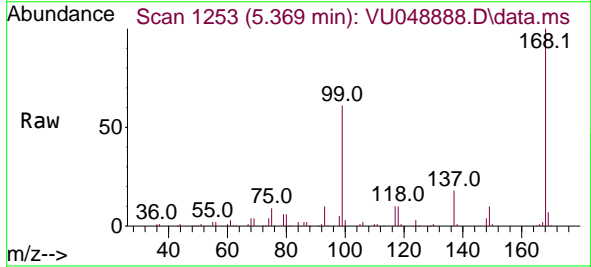
Ion	Ratio	Lower	Upper
42	100		
72	35.5	37.6	56.4#
71	38.8	35.0	52.4

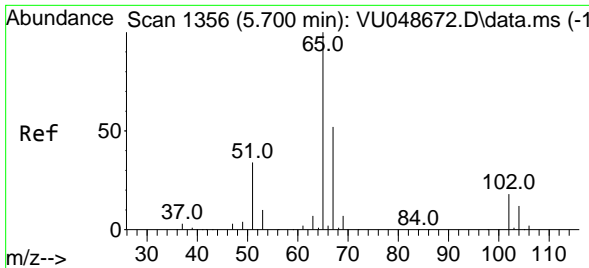


#31  
 Cyclohexane  
 Concen: 1.125 ug/l  
 RT: 5.369 min Scan# 1253  
 Delta R.T. -0.022 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion: 56 Resp: 5752

Ion	Ratio	Lower	Upper
56	100		
69	198.0	25.6	38.4#
84	107.5	66.2	99.4#

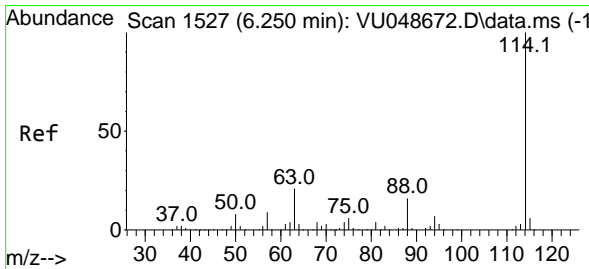
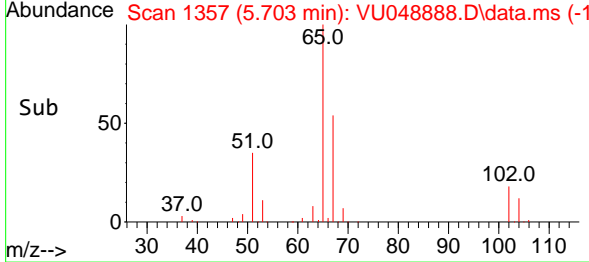
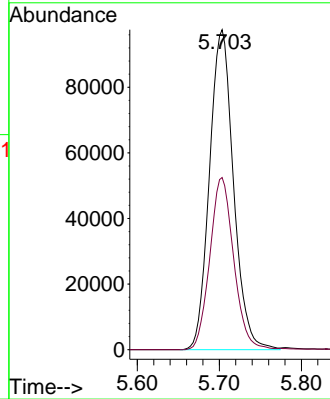
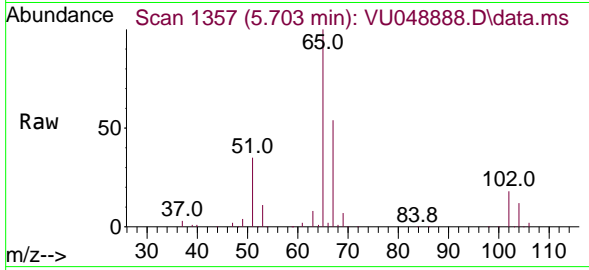




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.982 ug/l  
 RT: 5.703 min Scan# 11  
 Delta R.T. 0.003 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

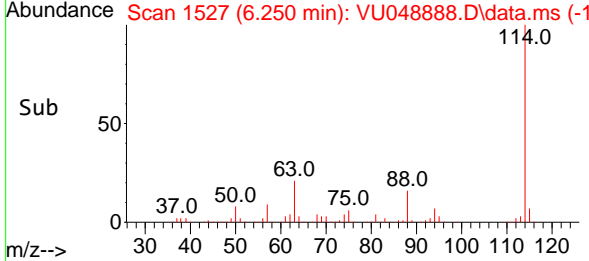
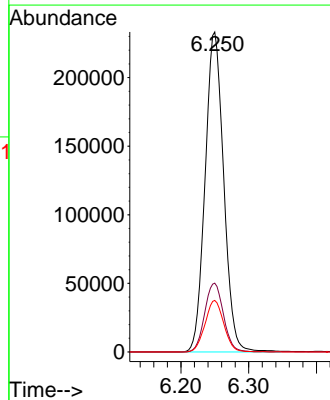
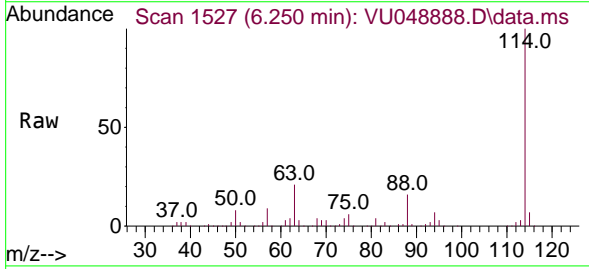
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

Tgt Ion: 65 Resp: 198795  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 103.0

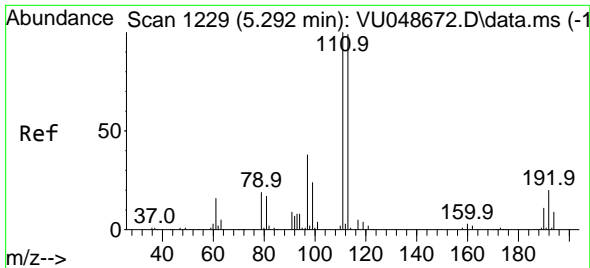


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.250 min Scan# 1527  
 Delta R.T. -0.000 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion:114 Resp: 444345  
 Ion Ratio Lower Upper  
 114 100  
 63 21.5 0.0 42.6  
 88 16.1 0.0 32.2

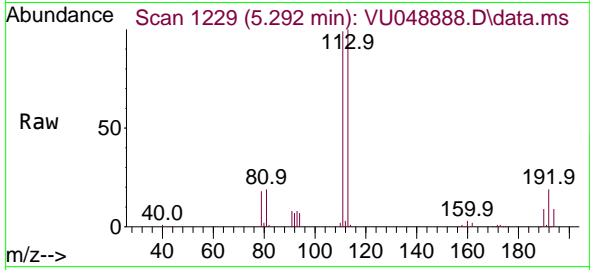




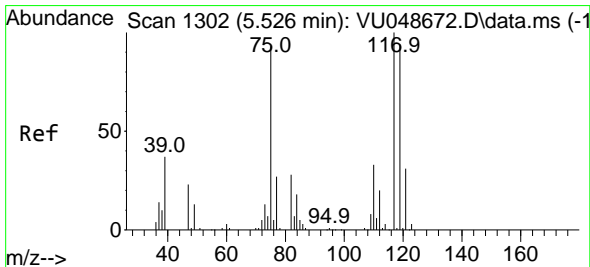
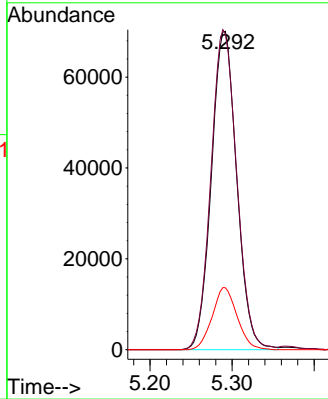
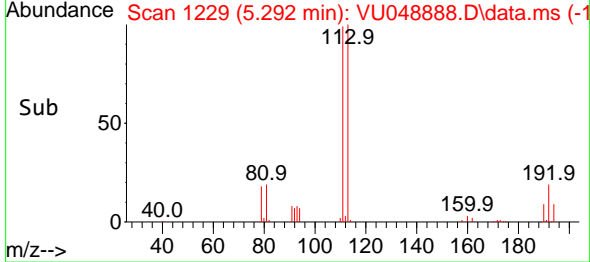


#35  
 Dibromofluoromethane  
 Concen: 47.377 ug/l  
 RT: 5.292 min Scan# 1111  
 Delta R.T. 0.000 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

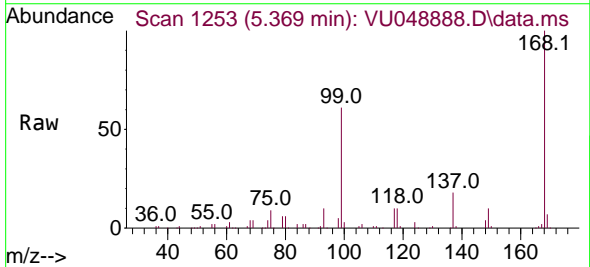
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601



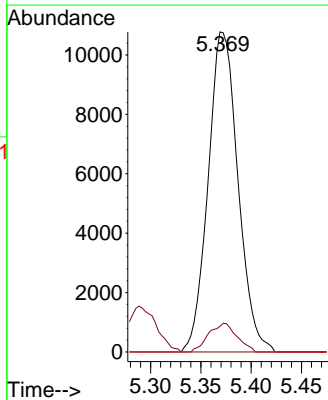
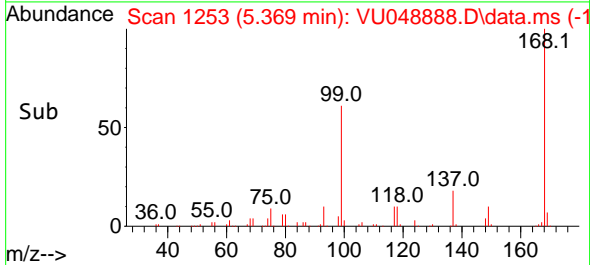
Tgt Ion:113 Resp: 150187  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 80.7 121.1  
 192 19.2 15.9 23.9

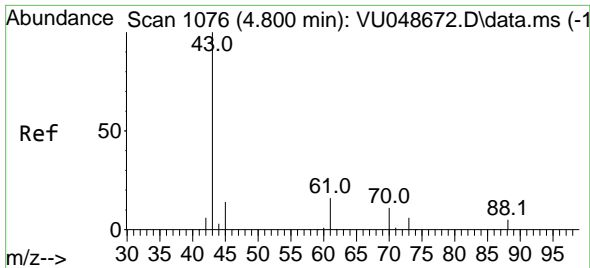


#36  
 1,1-Dichloropropene  
 Concen: 4.812 ug/l  
 RT: 5.369 min Scan# 1253  
 Delta R.T. -0.157 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29



Tgt Ion: 75 Resp: 22263  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 17.4 52.3#  
 77 0.0 24.8 37.2#

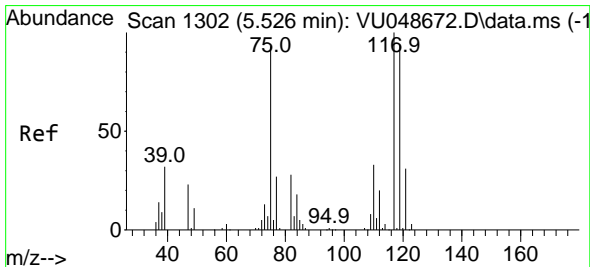
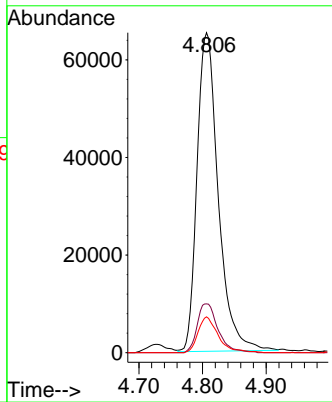
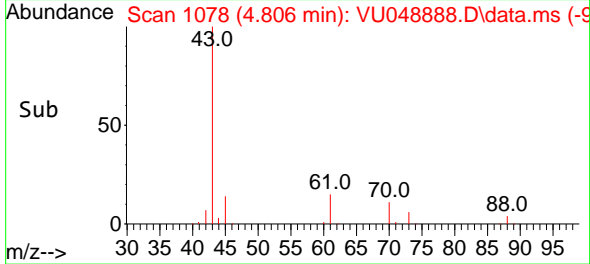
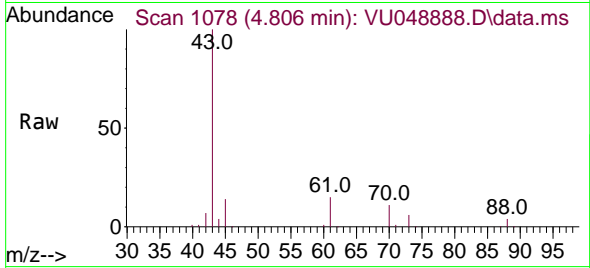




#37  
 Ethyl Acetate  
 Concen: 25.901 ug/l  
 RT: 4.806 min Scan# 10  
 Delta R.T. 0.007 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

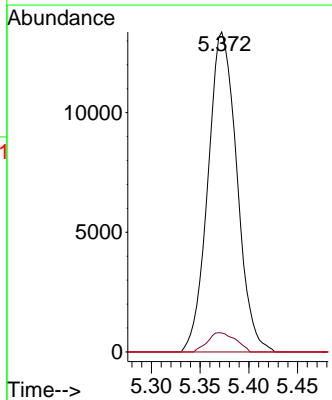
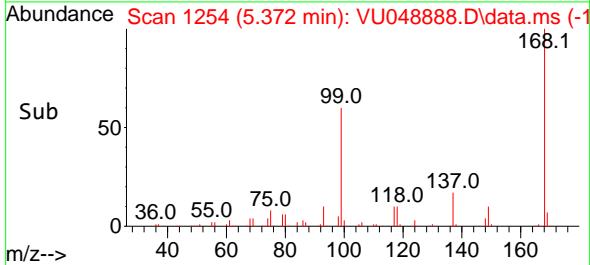
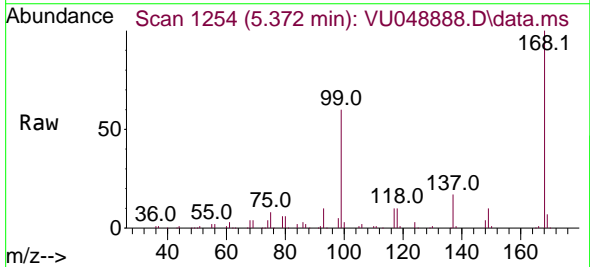
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

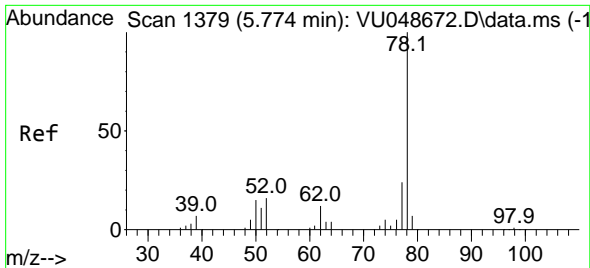
Tgt Ion	Resp	Lower	Upper
43	151491		
61	15.0	11.7	17.5
70	10.7	8.4	12.6



#38  
 Carbon Tetrachloride  
 Concen: 5.199 ug/l  
 RT: 5.372 min Scan# 1254  
 Delta R.T. -0.154 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion	Resp	Lower	Upper
117	27594		
119	6.0	75.4	113.2#
121	0.0	24.6	36.8#

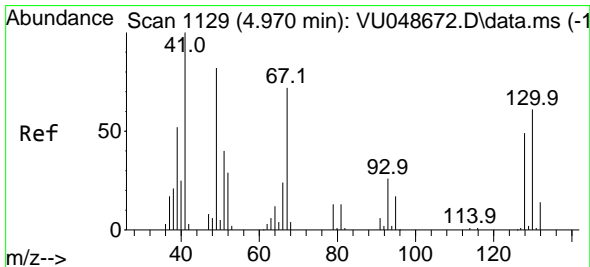
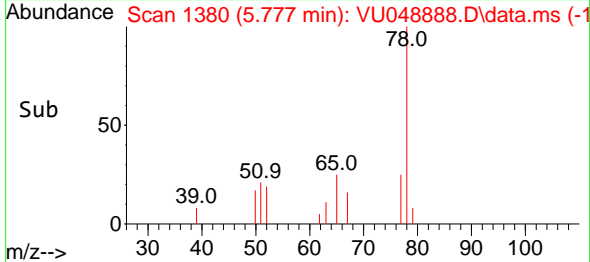
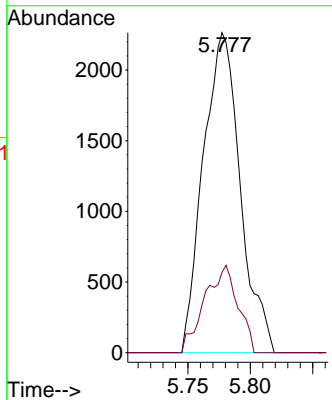
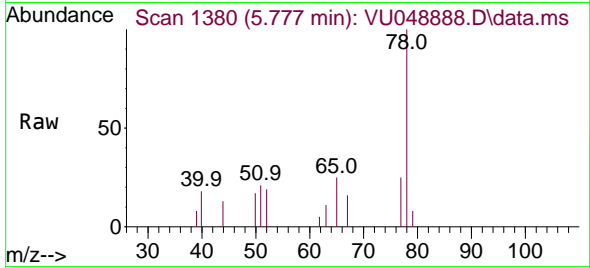




#40  
Benzene  
Concen: 0.342 ug/l  
RT: 5.777 min Scan# 1155  
Delta R.T. 0.003 min  
Lab File: VU048888.D  
Acq: 06 Jun 2022 17:29

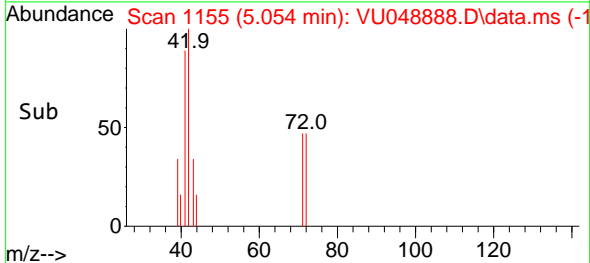
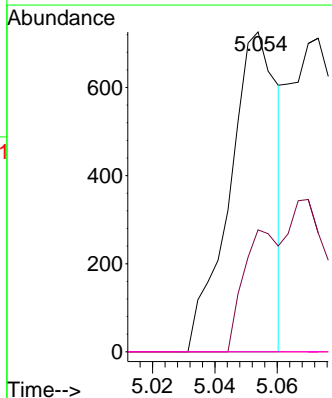
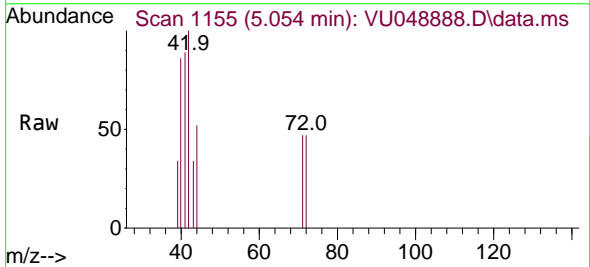
Instrument : MSVOA\_U  
ClientSampleId : 43BR-20220601

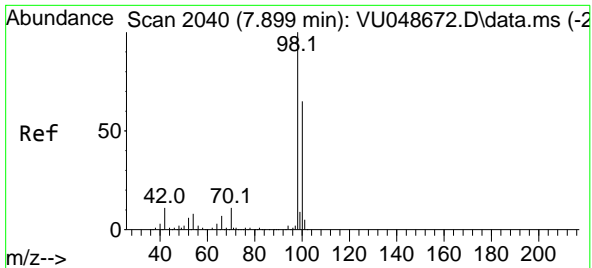
Tgt Ion	Resp	Lower	Upper
78	100		
77	25.1	19.0	28.6



#41  
Methacrylonitrile  
Concen: 0.261 ug/l  
RT: 5.054 min Scan# 1155  
Delta R.T. 0.084 min  
Lab File: VU048888.D  
Acq: 06 Jun 2022 17:29

Tgt Ion	Resp	Lower	Upper
41	100		
39	90.3	42.6	64.0#
67	0.0	61.0	91.4#
52	0.0	24.2	36.4#

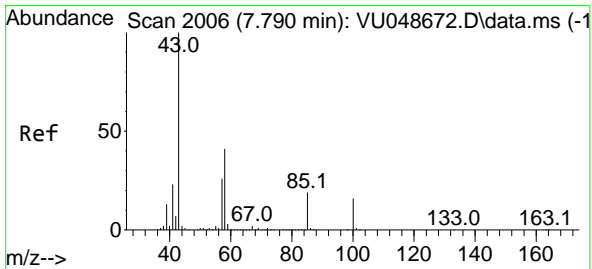
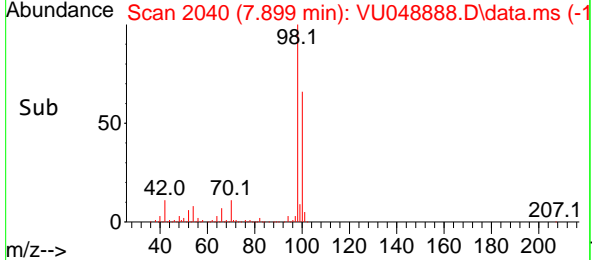
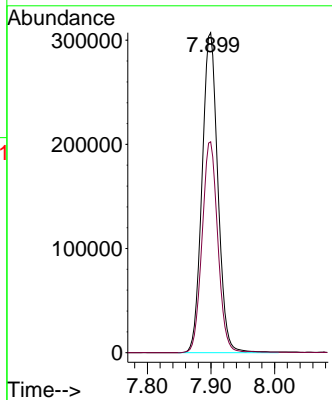
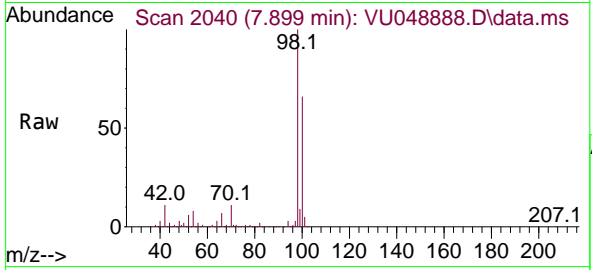




#50  
 Toluene-d8  
 Concen: 46.641 ug/l  
 RT: 7.899 min Scan# 2009  
 Delta R.T. 0.000 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

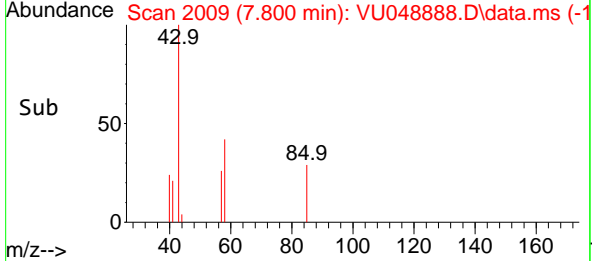
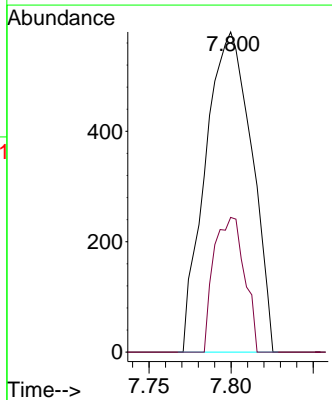
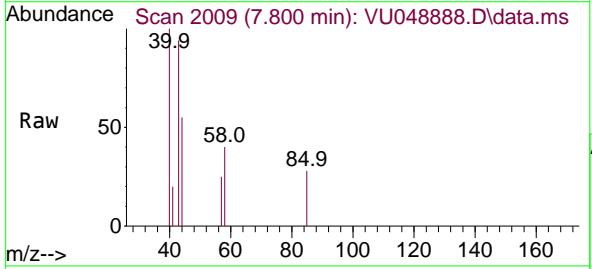
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

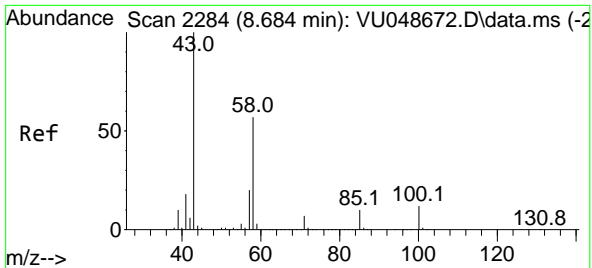
Tgt Ion: 98 Resp: 530006  
 Ion Ratio Lower Upper  
 98 100  
 100 65.4 52.2 78.4



#51  
 4-Methyl-2-Pentanone  
 Concen: 0.206 ug/l  
 RT: 7.800 min Scan# 2009  
 Delta R.T. 0.010 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion: 43 Resp: 1136  
 Ion Ratio Lower Upper  
 43 100  
 58 27.8 32.7 49.1#

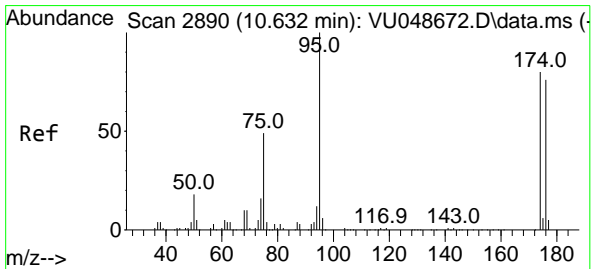
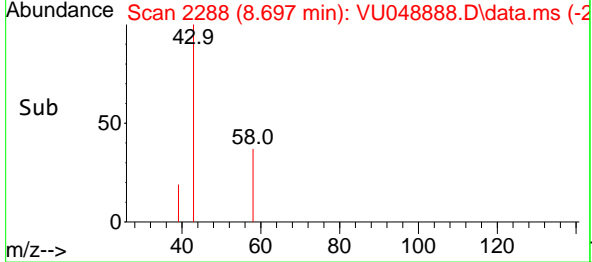
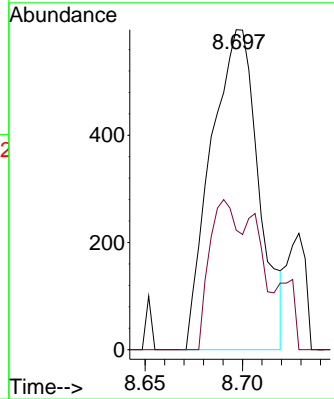
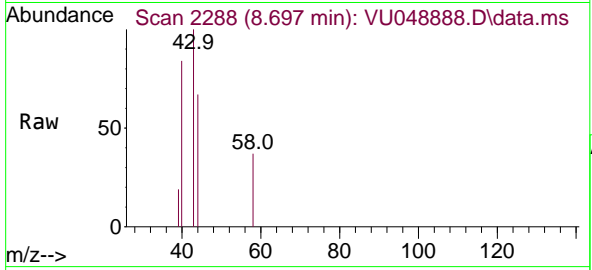




#59  
 2-Hexanone  
 Concen: 0.225 ug/l  
 RT: 8.697 min Scan# 21  
 Delta R.T. 0.013 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

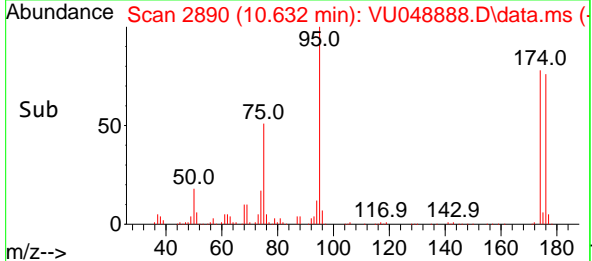
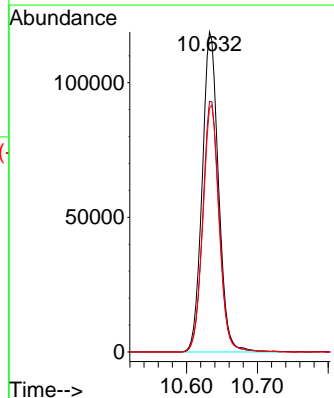
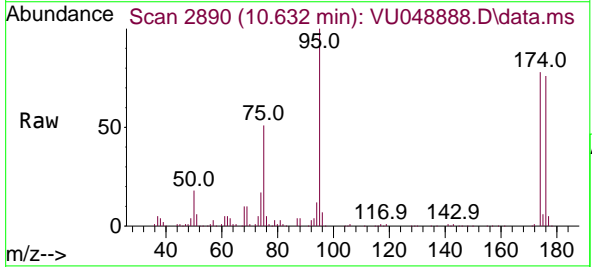
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

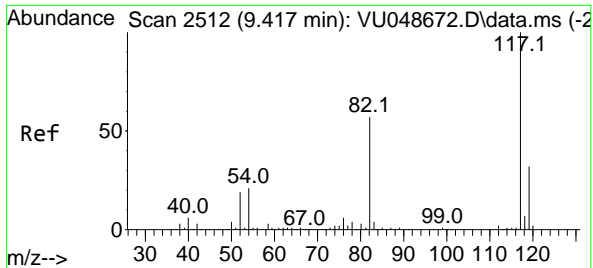
Tgt Ion: 43 Resp: 1019  
 Ion Ratio Lower Upper  
 43 100  
 58 30.0 28.2 84.6



#62  
 4-Bromofluorobenzene  
 Concen: 44.194 ug/l  
 RT: 10.632 min Scan# 2890  
 Delta R.T. 0.000 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion: 95 Resp: 189927  
 Ion Ratio Lower Upper  
 95 100  
 174 79.2 0.0 159.4  
 176 76.8 0.0 152.4



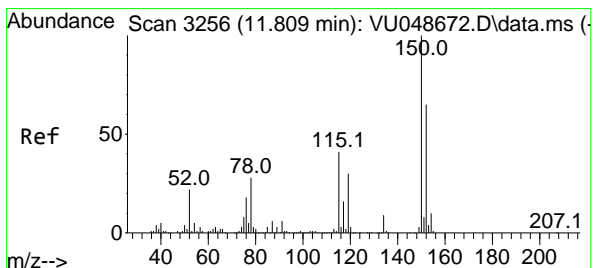
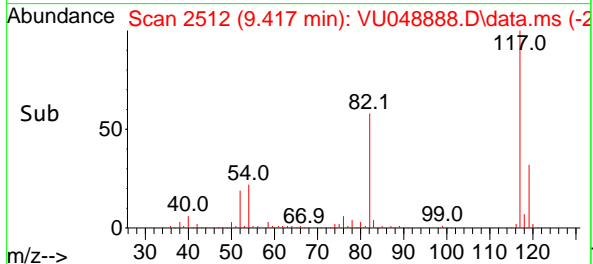
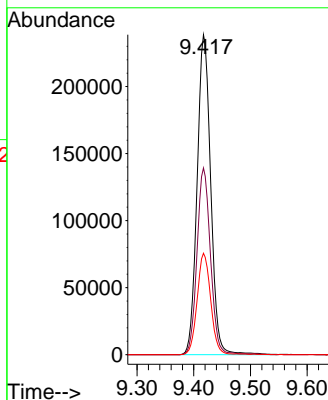
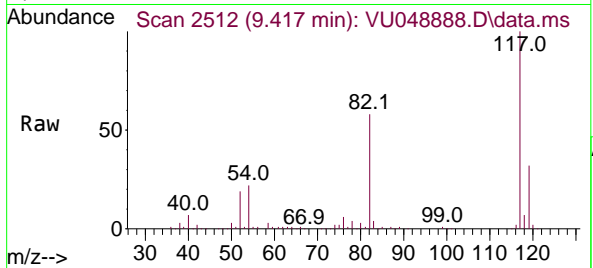


#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.417 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 43BR-20220601

Tgt Ion:117 Resp: 397408

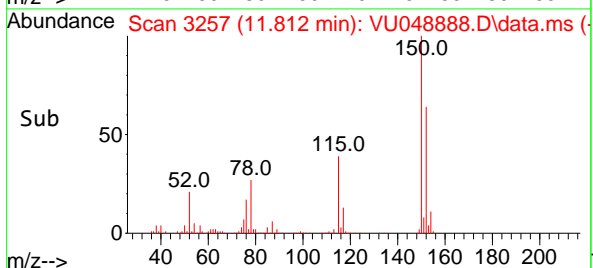
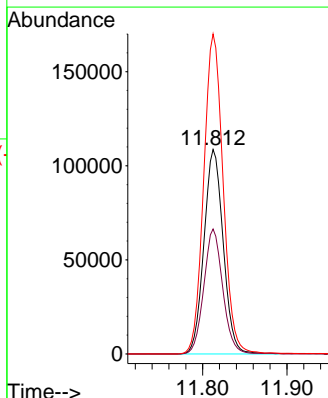
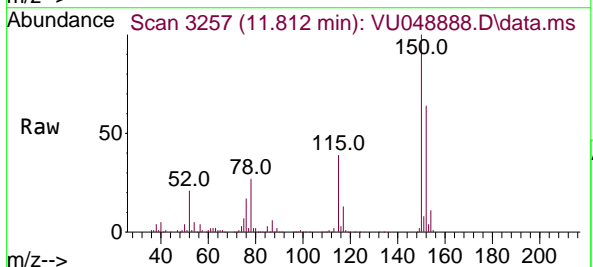
Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.3	67.9
119	31.7	25.4	38.2

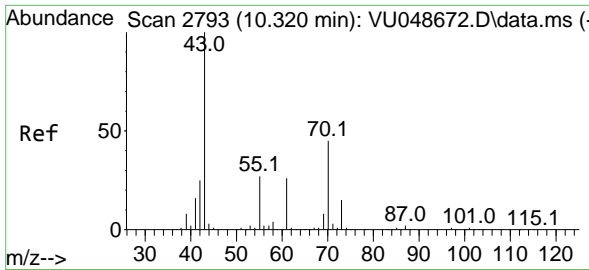


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.812 min Scan# 3257  
 Delta R.T. 0.003 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion:152 Resp: 173224

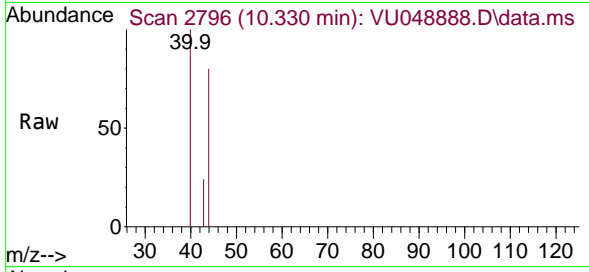
Ion	Ratio	Lower	Upper
152	100		
115	59.9	41.8	125.4
150	157.0	0.0	341.0





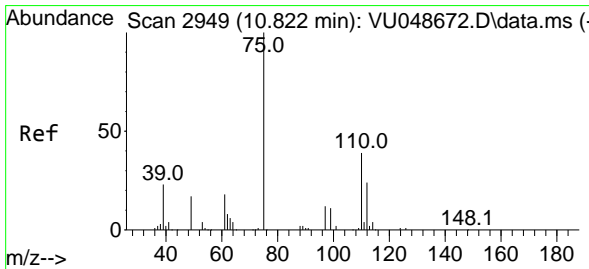
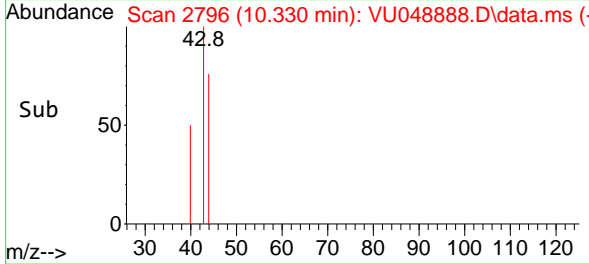
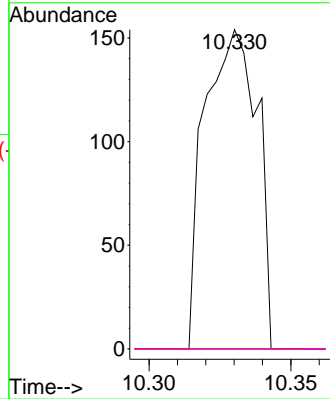
#74  
 N-amy1 acetate  
 Concen: 2.500 ug/l  
 RT: 10.330 min Scan# 21  
 Delta R.T. 0.010 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 43BR-20220601



Tgt Ion: 43 Resp: 198

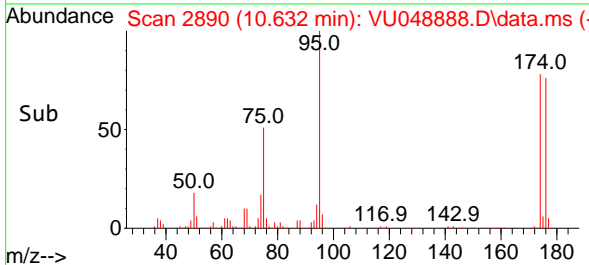
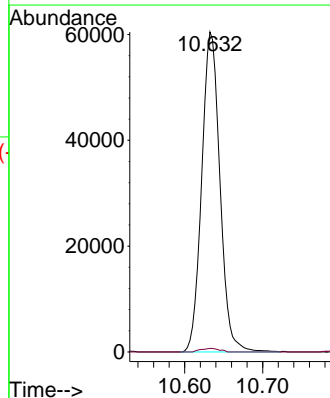
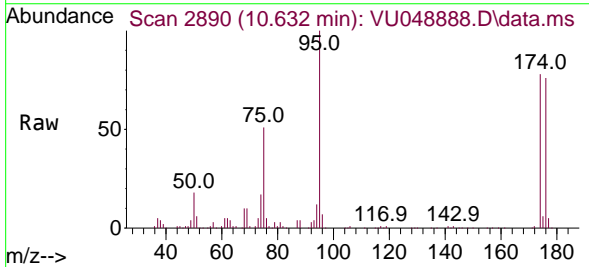
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.8	53.6#
55	0.0	21.1	31.7#
61	0.0	20.2	30.4#

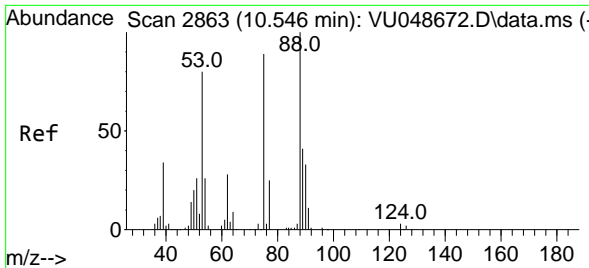


#76  
 1,2,3-Trichloropropane  
 Concen: 17.604 ug/l  
 RT: 10.632 min Scan# 2890  
 Delta R.T. -0.190 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion: 75 Resp: 98322

Ion	Ratio	Lower	Upper
75	100		
77	1.1	14.8	44.3#

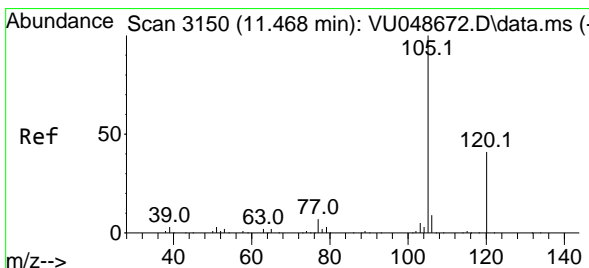
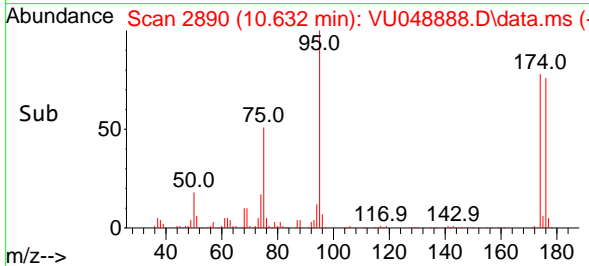
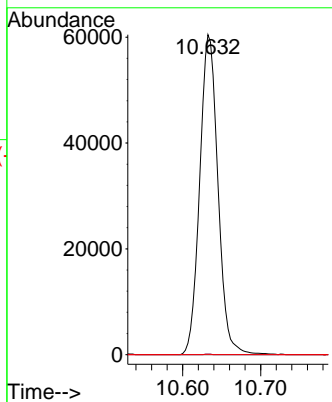
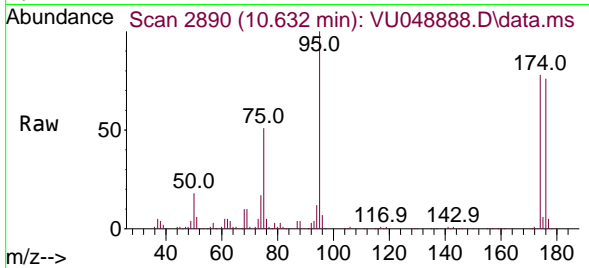




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 63.918 ug/l  
 RT: 10.632 min Scan# 2890  
 Delta R.T. 0.087 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

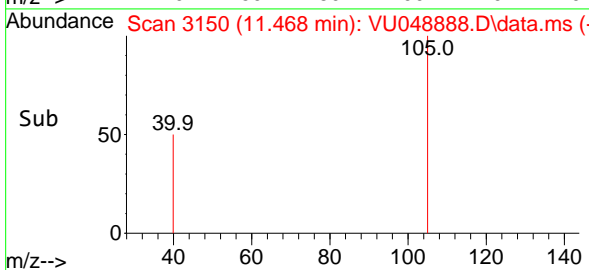
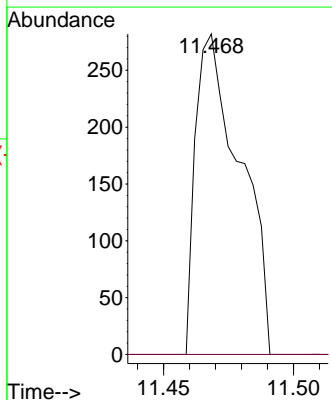
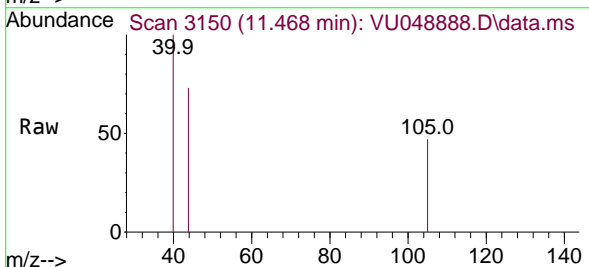
Instrument : MSVOA\_U  
 ClientSampleId : 43BR-20220601

Tgt Ion: 75 Resp: 98322  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 72.5 108.7#  
 89 0.0 37.0 55.4#

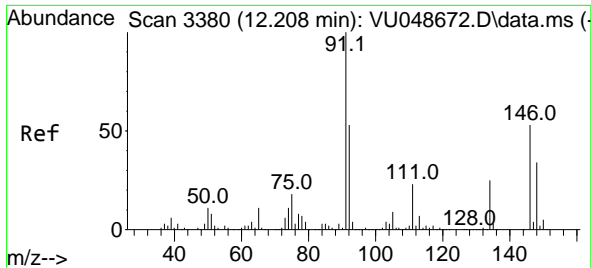


#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.218 ug/l  
 RT: 11.468 min Scan# 3150  
 Delta R.T. 0.000 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion: 105 Resp: 338  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 22.5 67.5#



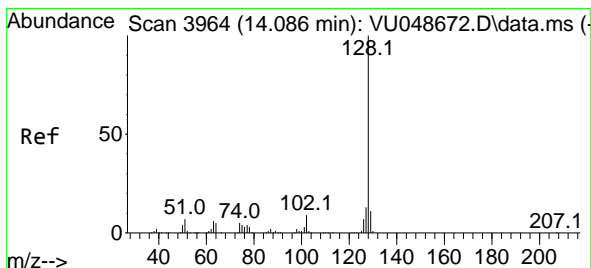
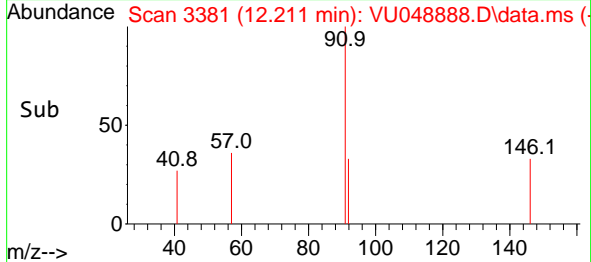
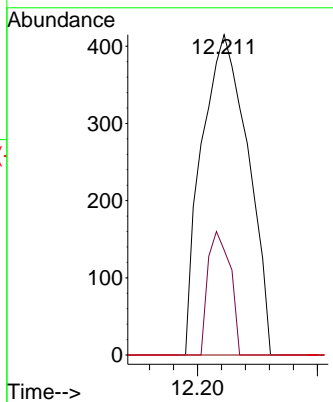
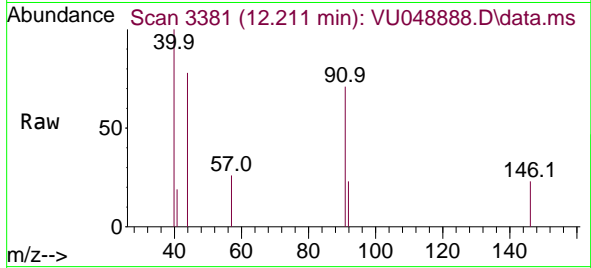




#89  
 n-Butylbenzene  
 Concen: 2.238 ug/l  
 RT: 12.211 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 43BR-20220601

Tgt Ion	Resp	Lower	Upper
91	100		
92	18.6	25.9	77.8#
134	0.0	12.5	37.5#



#95  
 Naphthalene  
 Concen: 2.810 ug/l  
 RT: 14.095 min Scan# 3967  
 Delta R.T. 0.009 min  
 Lab File: VU048888.D  
 Acq: 06 Jun 2022 17:29

Tgt Ion	Resp	Lower	Upper
128	100		
127	5.3	10.2	15.4#
129	5.6	8.7	13.1#

