

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014081.D
 Acq On : 18 Dec 2019 04:33
 Operator : JC/SP
 Sample : K6312-07 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Dec 18 07:24:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	84622	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	465399	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	421850	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.05	65	183826	30.33	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.10%
60) 4-Bromofluorobenzene	11.14	95	193541	28.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.70%
63) Toluene-d8	8.71	98	562627	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

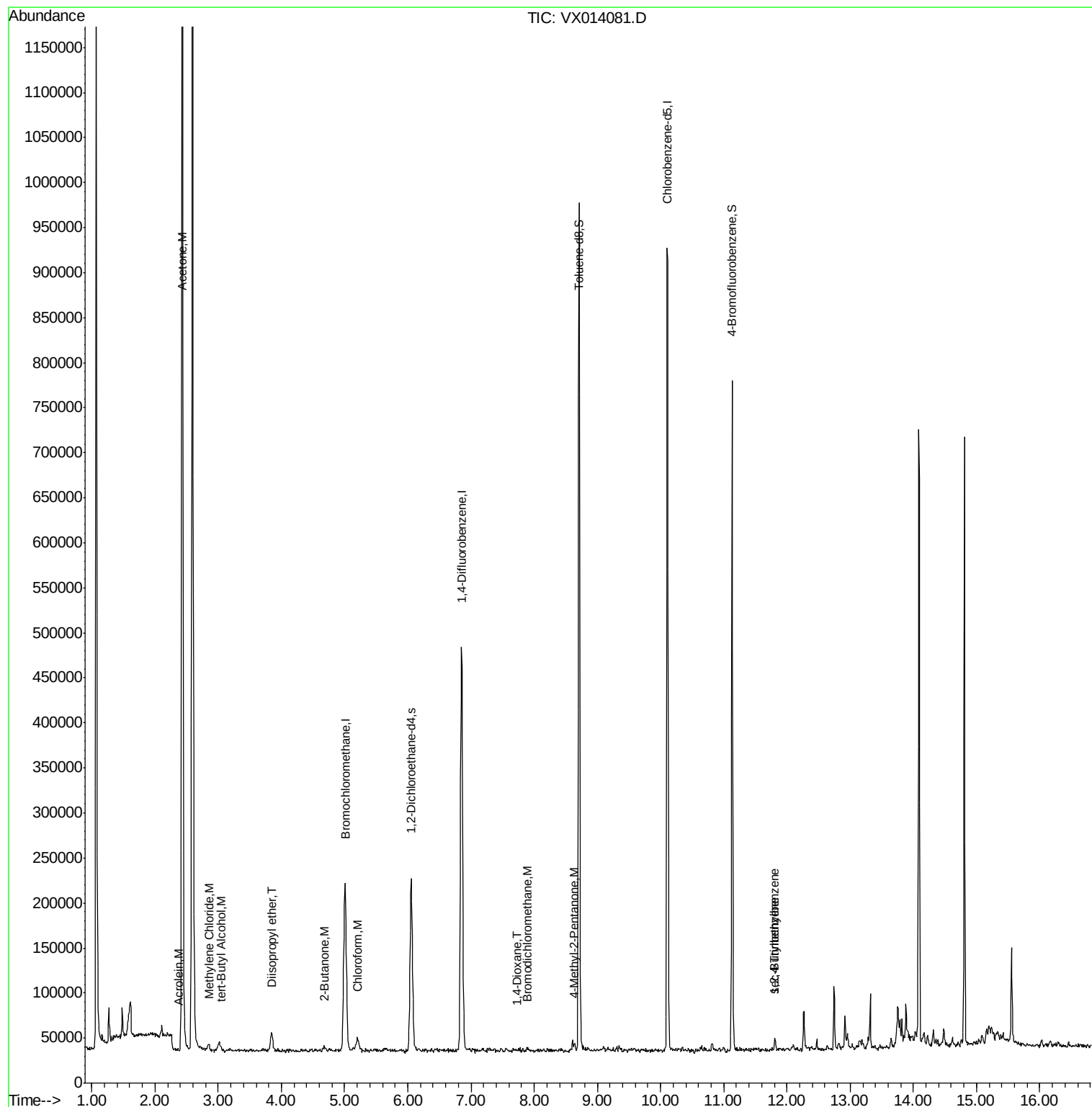
Target Compounds					Ovalue
13) Acrolein	2.37	56	324	0.364 ug/l	85
15) Acetone	2.43	58	462764	549.306 ug/l	89
18) Methylene Chloride	2.85	84	3307	0.570 ug/l	92
20) Diisopropyl ether	3.84	45	22765	1.303 ug/l #	75
23) tert-Butyl Alcohol	3.05	59	227	0.202 ug/l #	31
25) Chloroform	5.20	83	16462	1.821 ug/l	95
30) 2-Butanone	4.67	43	3626	0.915 ug/l #	59
41) Bromodichloromethane	7.89	83	2935	0.436 ug/l #	76
45) 1,4-Dioxane	7.73	88	181	1.518 ug/l #	38
58) 4-Methyl-2-Pentanone	8.64	43	4514	0.572 ug/l #	76
80) 1,2,4-Trimethylbenzene	11.81	105	5514	0.271 ug/l	41
81) sec-Butylbenzene	11.81	105	5514	0.236 ug/l	61

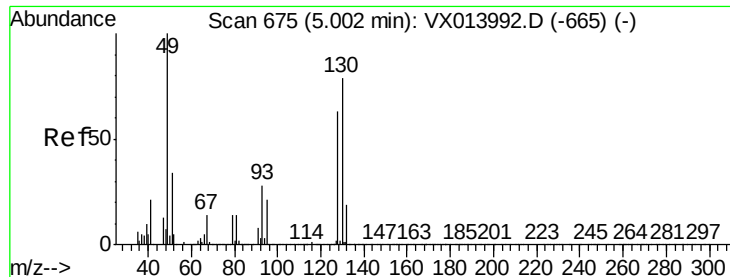
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
EFF-WW

Quant Time: Dec 18 07:24:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 13 01:35:34 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014081.D

Acq: 18 Dec 2019 04:33

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

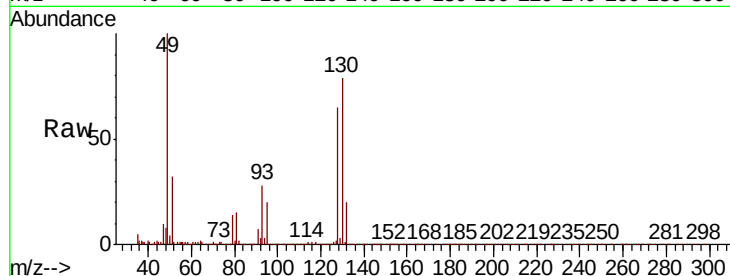
Tot Ion:128 Resp: 84622

Ion Ratio Lower Upper

128 100

49 158.1 0.0 405.0

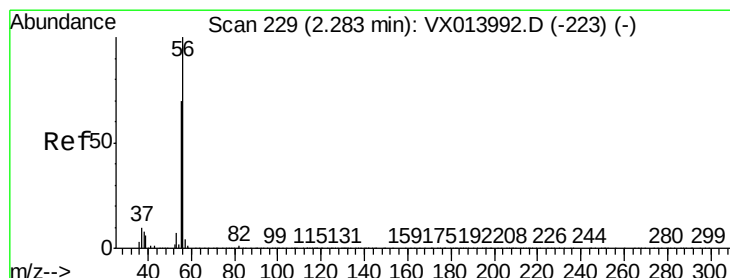
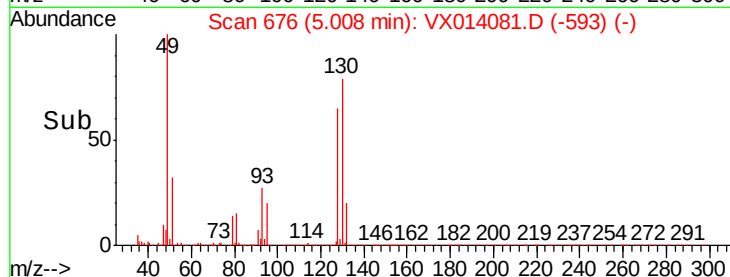
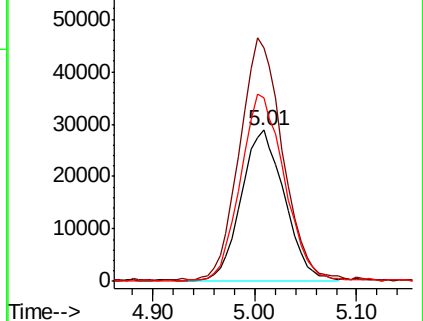
130 125.7 0.0 321.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.364 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.09 min

Lab File: VX014081.D

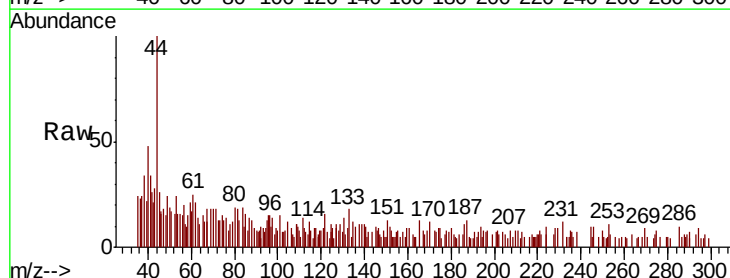
Acq: 18 Dec 2019 04:33

Tgt Ion: 56 Resp: 324

Ion Ratio Lower Upper

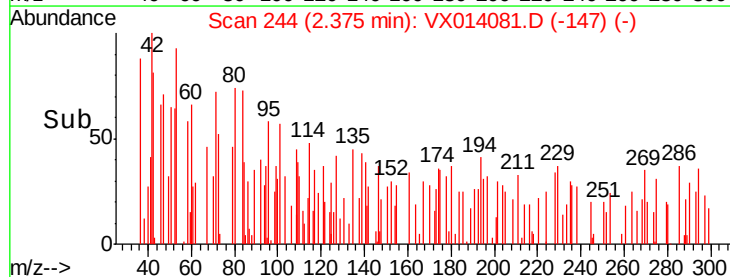
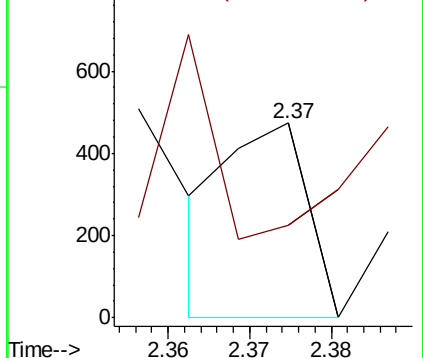
56 100

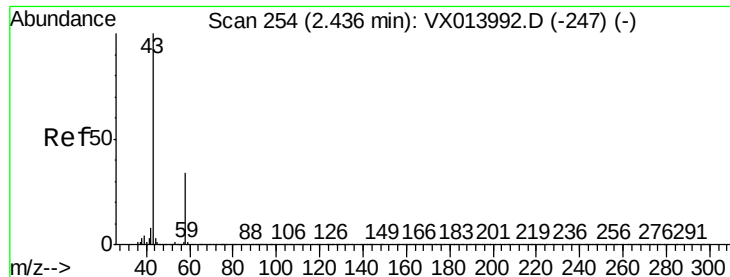
55 56.2 54.9 82.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 549.306 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014081.D

Acq: 18 Dec 2019 04:33

Instrument :

MSVOA_X

ClientSampled :

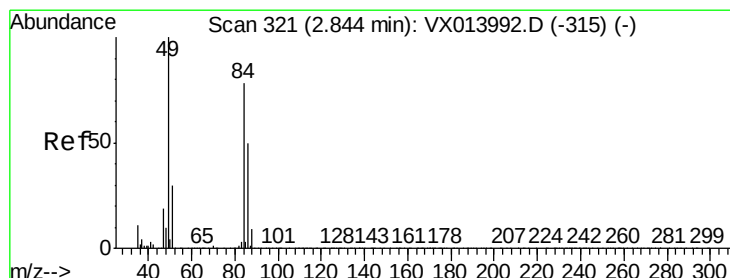
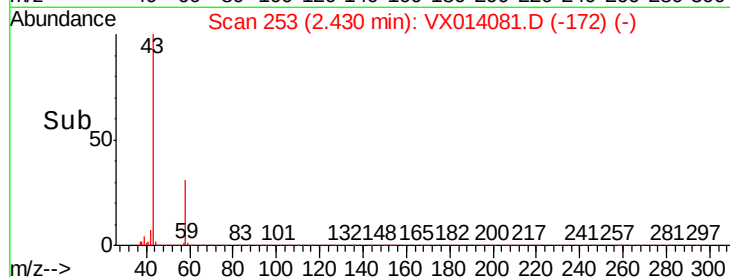
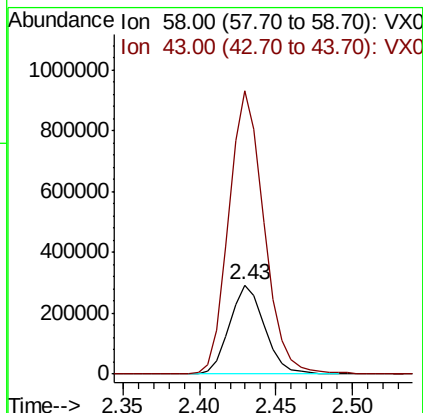
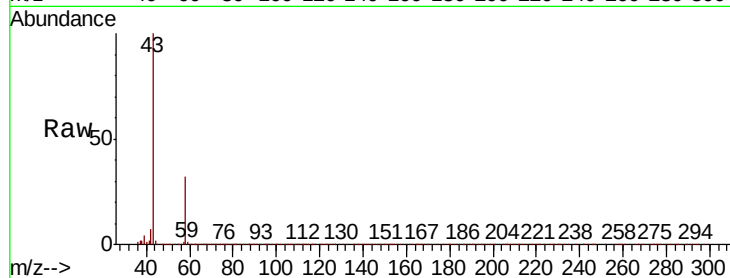
EFF-WW

Tot Ion: 58 Resp: 462764

Ion Ratio Lower Upper

58 100

43 317.6 236.3 354.5



#18

Methylene Chloride

Concen: 0.570 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX014081.D

Acq: 18 Dec 2019 04:33

Tgt Ion: 84 Resp: 3307

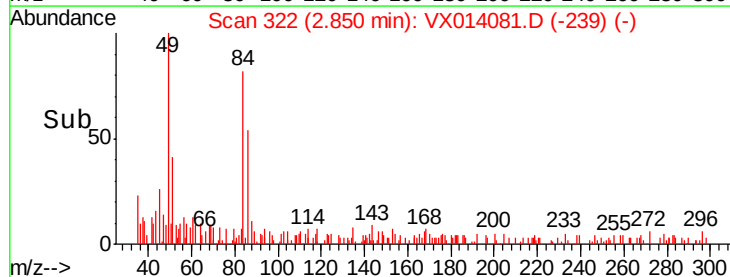
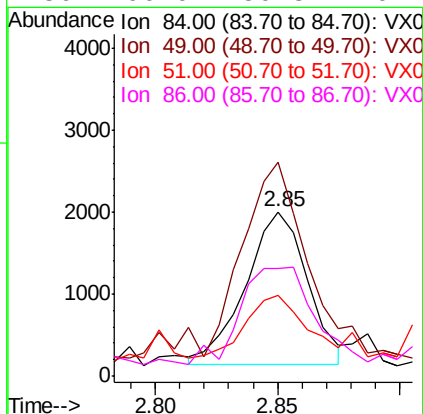
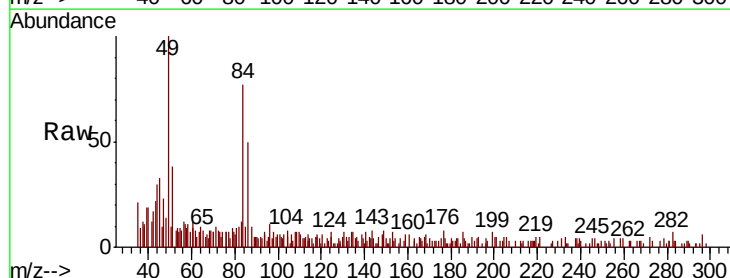
Ion Ratio Lower Upper

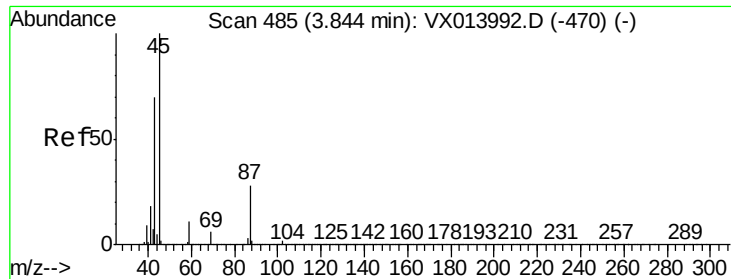
84 100

49 115.5 102.2 153.2

51 43.2 31.4 47.0

86 66.0 50.8 76.2

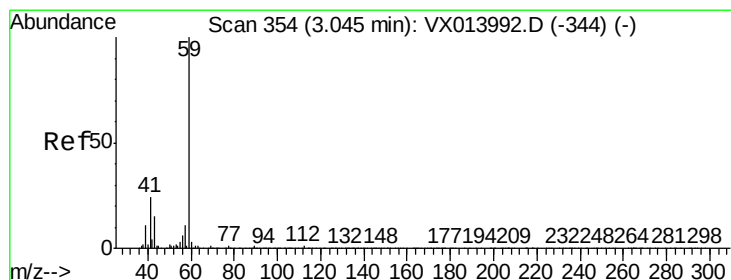
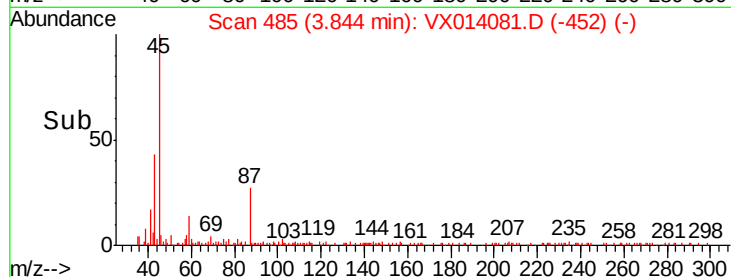
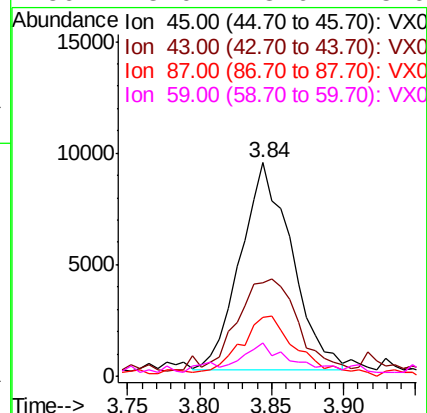
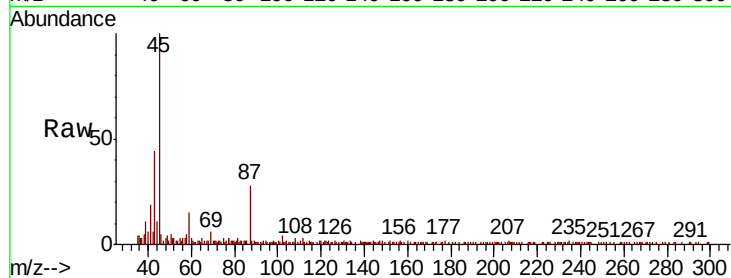




#20
Diisopropyl ether
Concen: 1.303 ug/l
RT: 3.84 min Scan# 485
Delta R.T. 0.00 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

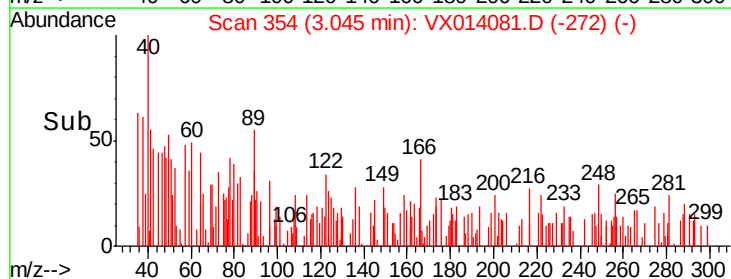
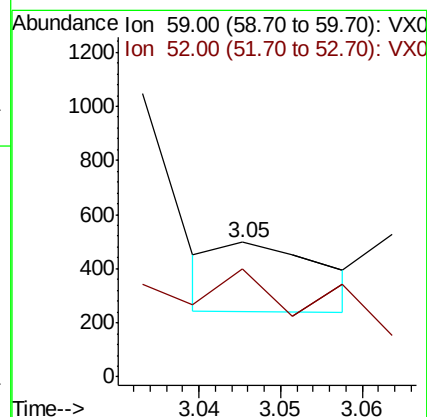
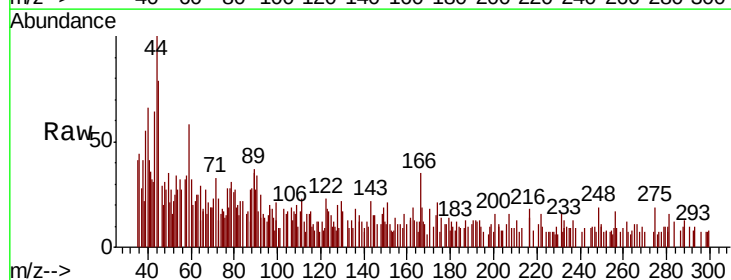
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

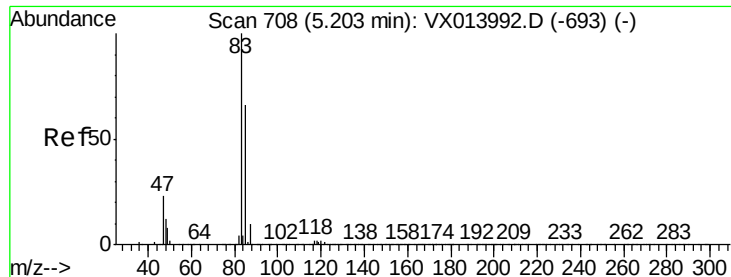
Tot Ion:	45	Resp:	22765
Ion	Ratio	Lower	Upper
45	100		
43	39.8	55.9	83.9#
87	25.7	22.2	33.2
59	13.0	8.6	13.0#



#23
tert-Butyl Alcohol
Concen: 0.202 ug/l
RT: 3.05 min Scan# 354
Delta R.T. 0.00 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

Tgt Ion:	59	Resp:	227
Ion	Ratio	Lower	Upper
59	100		
52	88.1	0.2	0.2#

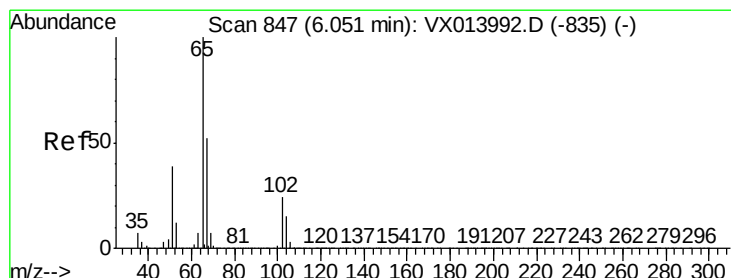
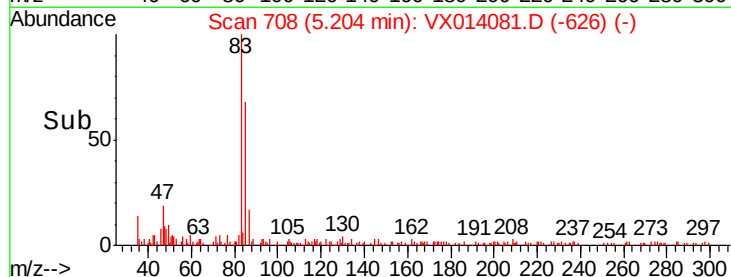
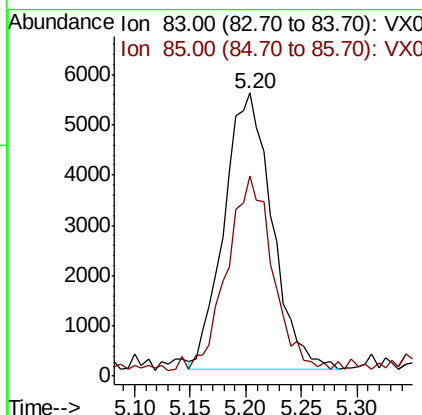
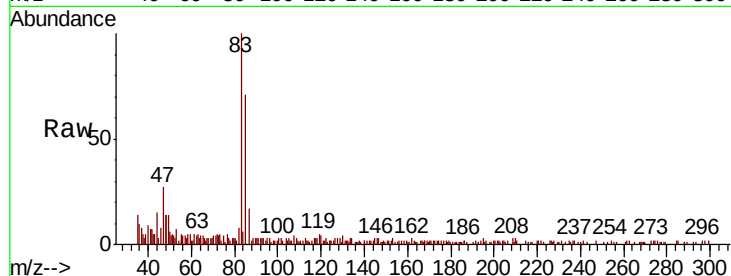




#25
Chloroform
Concen: 1.821 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.00 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

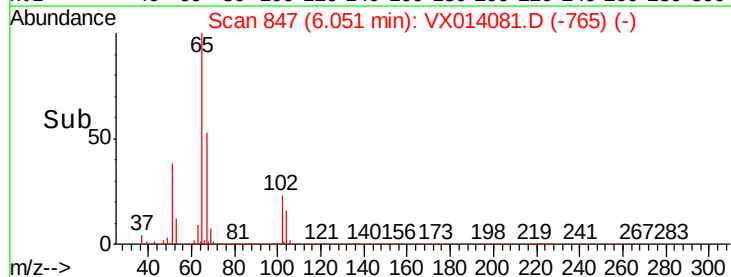
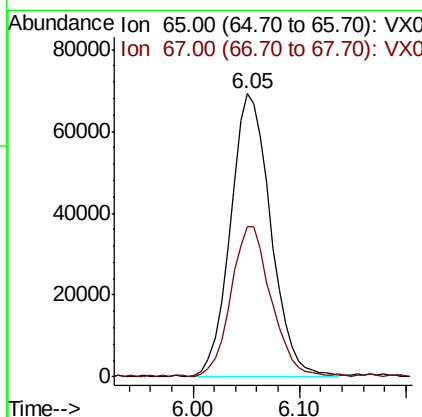
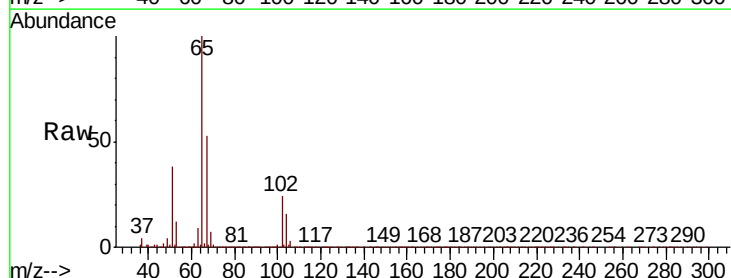
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

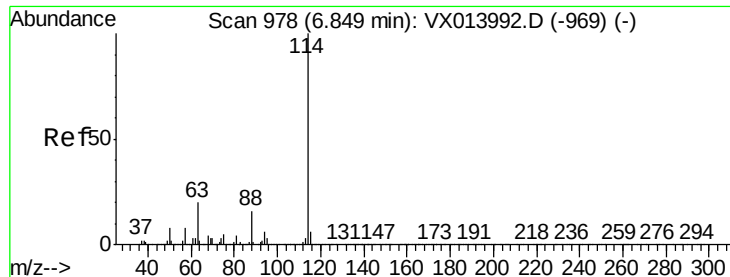
Tot Ion: 83 Resp: 16462
Ion Ratio Lower Upper
83 100
85 69.9 52.7 79.1



#27
1,2-Dichloroethane-d4
Concen: 30.332 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

Tgt Ion: 65 Resp: 183826
Ion Ratio Lower Upper
65 100
67 52.7 43.1 64.7

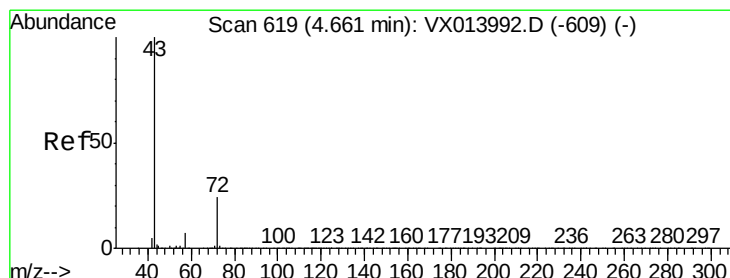
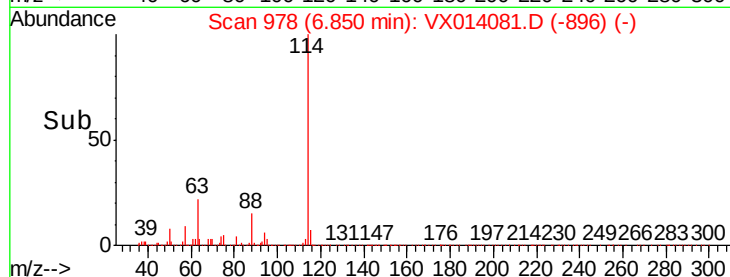
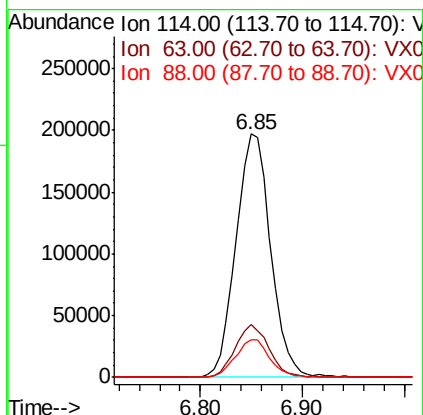
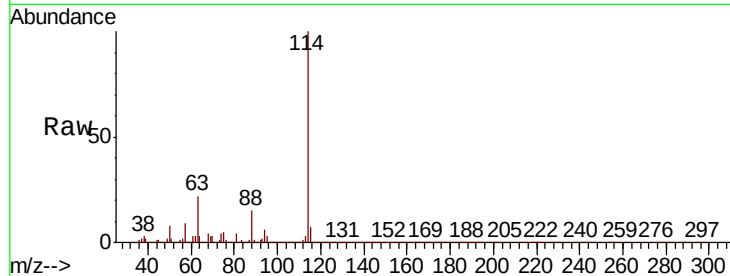




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014081.D
 Acq: 18 Dec 2019 04:33

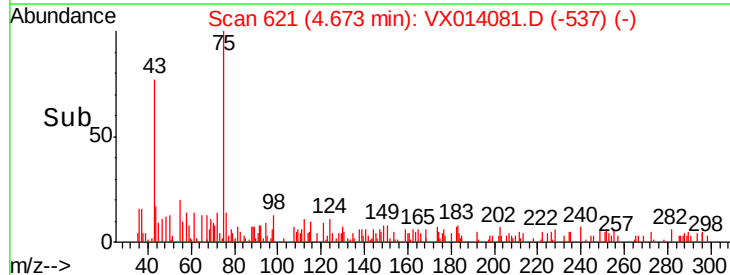
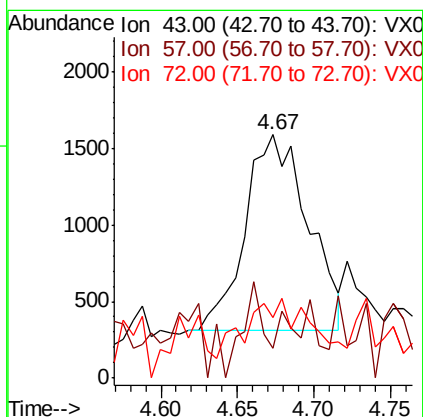
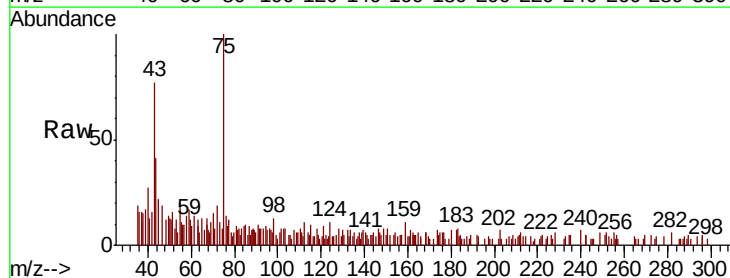
Instrument :
 MSVOA_X
 ClientSampled :
 EFF-WW

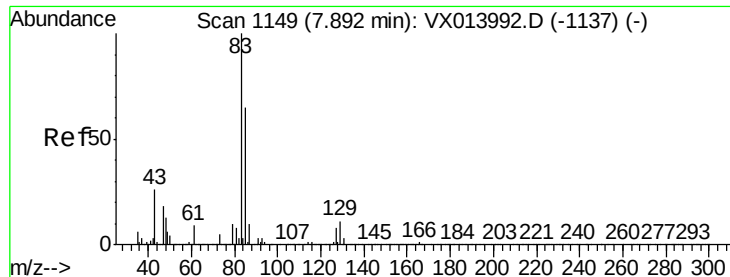
Tot Ion:	114	Resp:	465399
Ion	Ratio	Lower	Upper
114	100		
63	21.2	16.1	24.1
88	15.3	12.5	18.7



#30
 2-Butanone
 Concen: 0.915 ug/l
 RT: 4.67 min Scan# 621
 Delta R.T. 0.01 min
 Lab File: VX014081.D
 Acq: 18 Dec 2019 04:33

Tgt Ion:	43	Resp:	3626
Ion	Ratio	Lower	Upper
43	100		
57	4.4	6.2	9.2#
72	0.0	20.3	30.5#





#41

Bromodichloromethane

Concen: 0.436 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX014081.D

Acq: 18 Dec 2019 04:33

Instrument :

MSVOA_X

ClientSampled :

EFF-WW

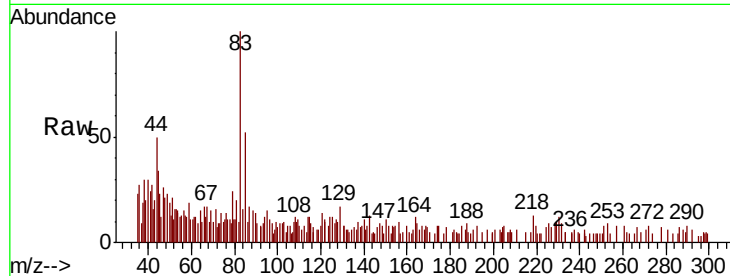
Tot Ion: 83 Resp: 2935

Ion Ratio Lower Upper

83 100

85 45.6 51.6 77.4#

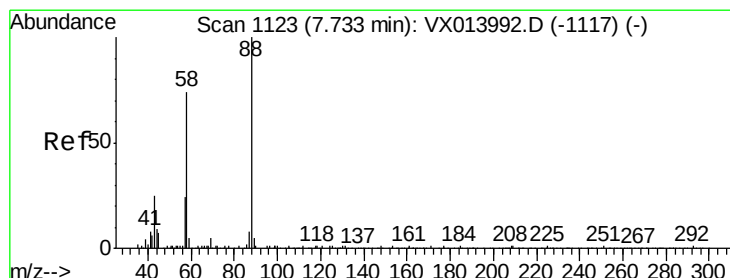
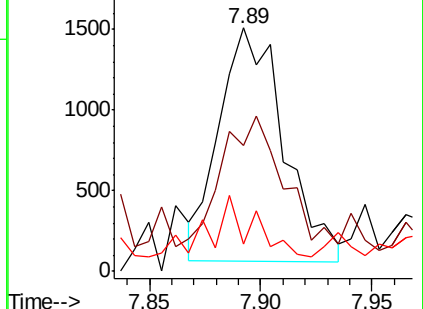
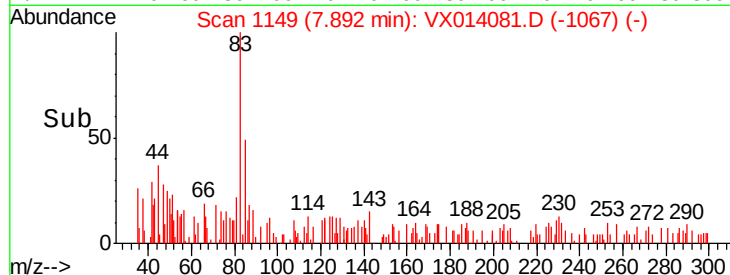
127 0.0 6.0 9.0#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 1.518 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014081.D

Acq: 18 Dec 2019 04:33

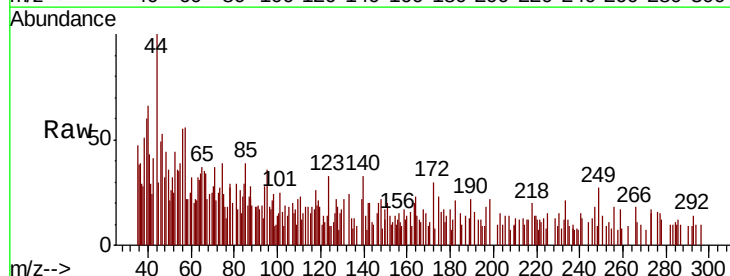
Tgt Ion: 88 Resp: 181

Ion Ratio Lower Upper

88 100

43 26.5 25.4 38.2

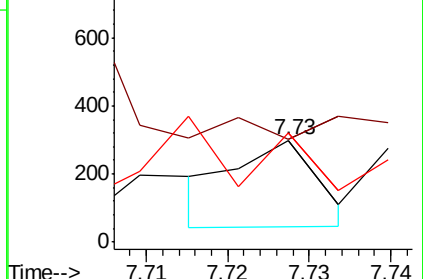
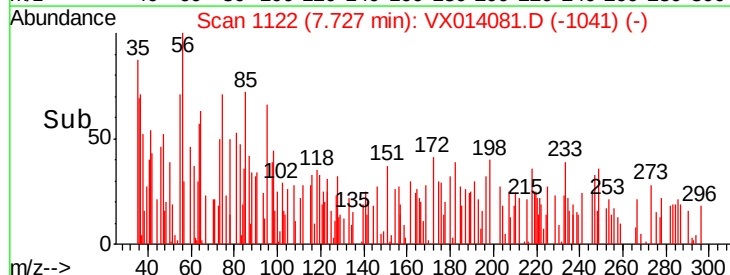
58 0.0 56.5 84.7#

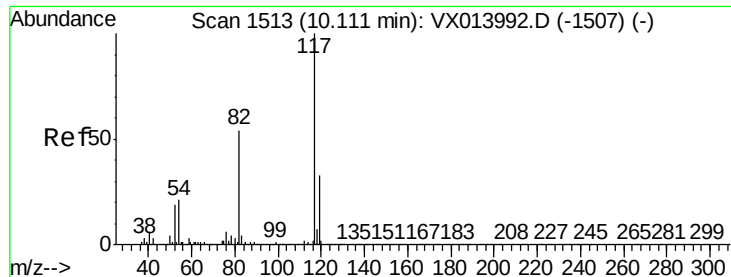


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

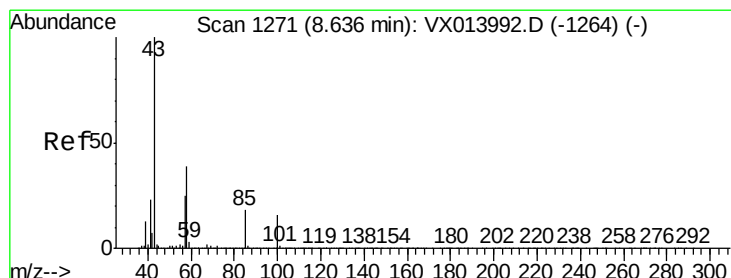
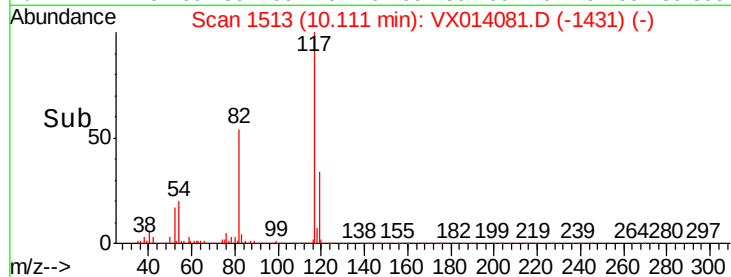
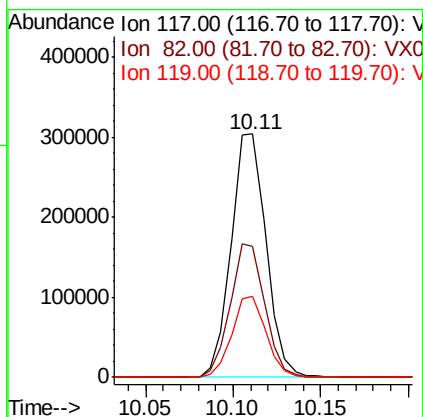
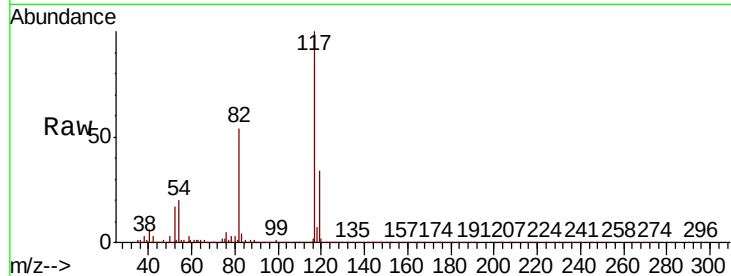




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

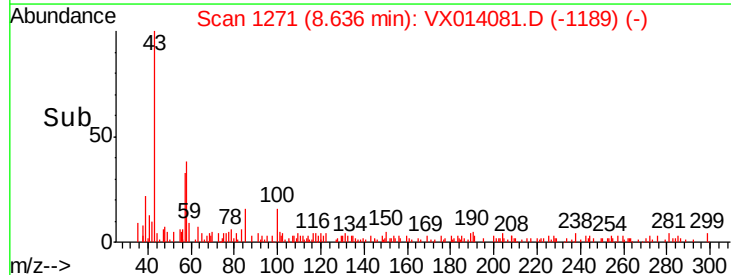
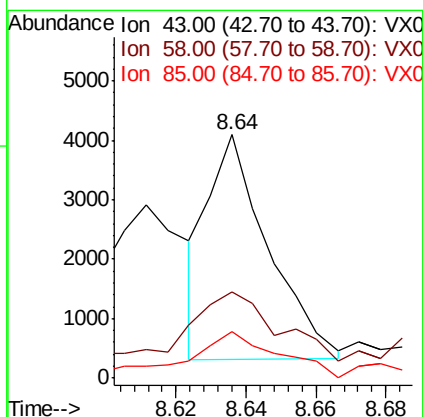
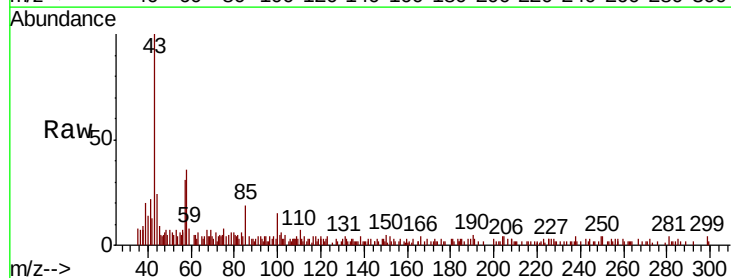
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

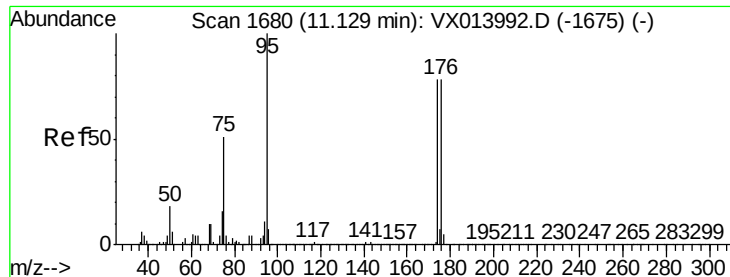
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.8	65.6
119	32.5	25.8	38.6



#58
4-Methyl-2-Pentanone
Concen: 0.572 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.6	31.2	46.8#
85	33.6	14.2	21.2#

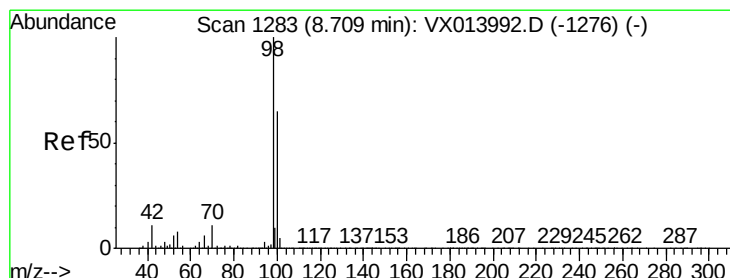
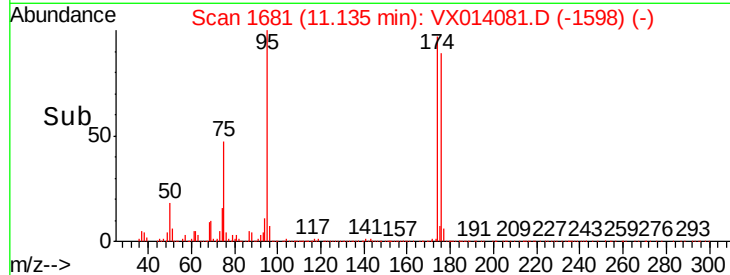
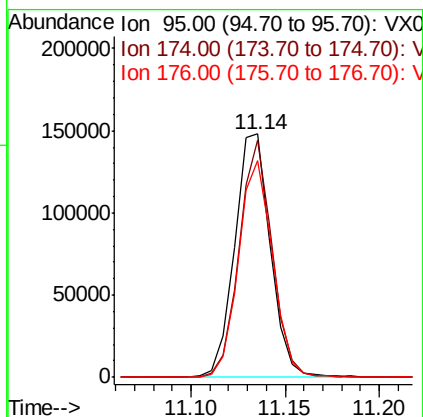
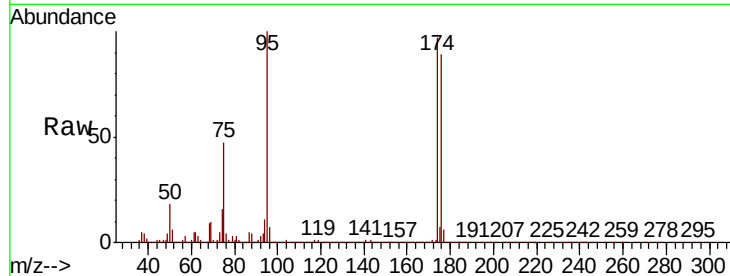




#60
4-Bromofluorobenzene
Concen: 28.412 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

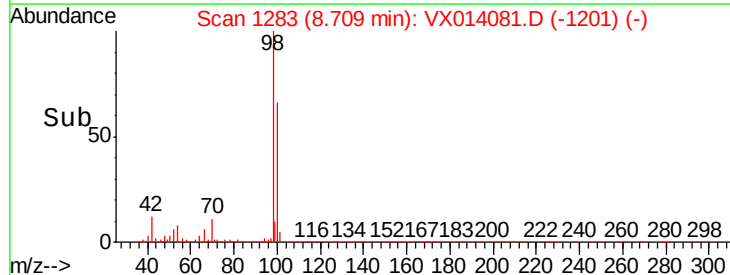
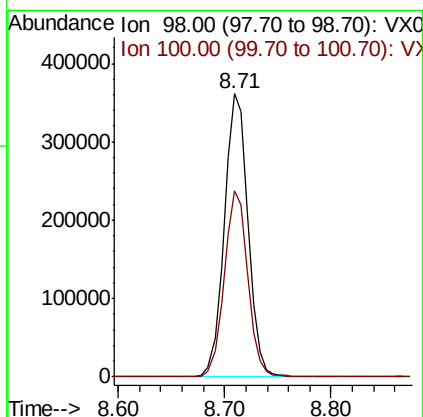
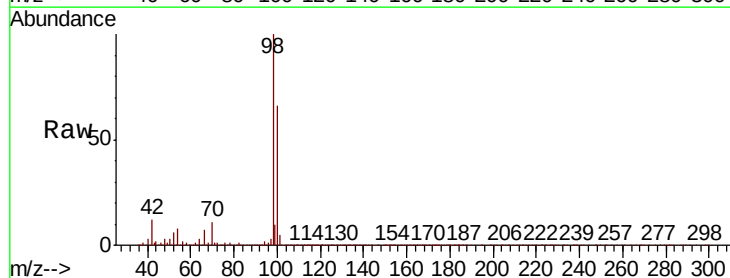
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

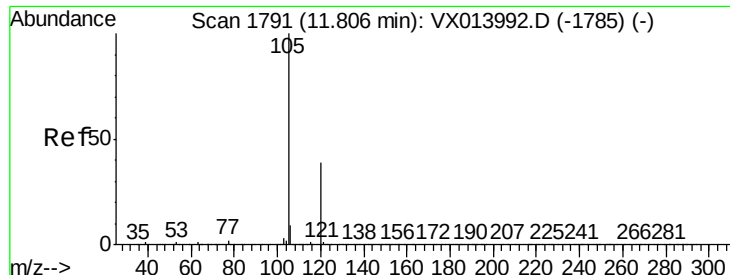
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.1	70.2	105.2
176	86.2	68.3	102.5



#63
Toluene-d8
Concen: 29.838 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014081.D
Acq: 18 Dec 2019 04:33

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2

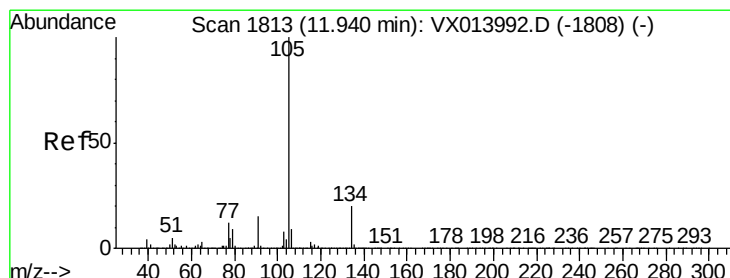
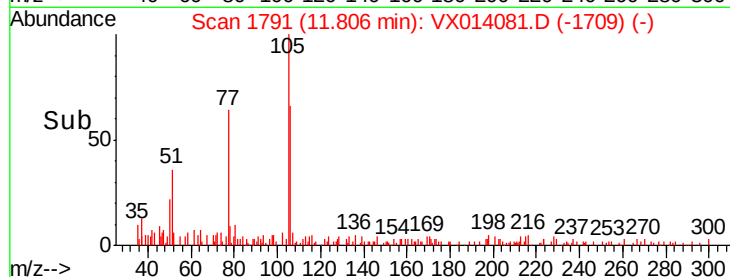
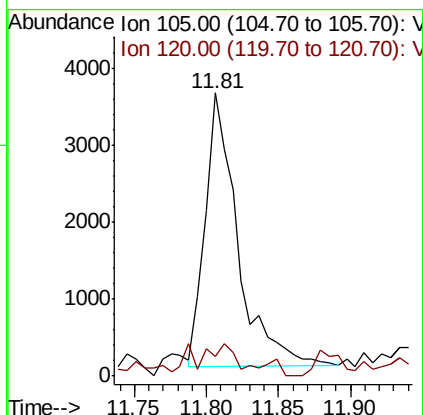
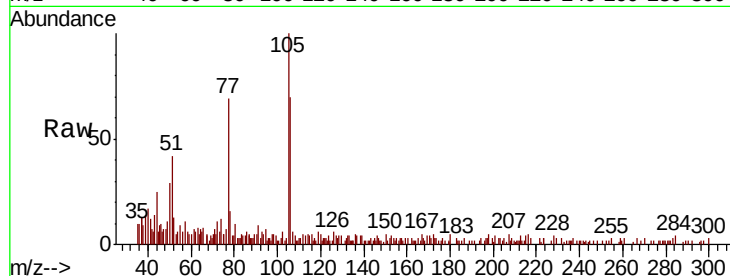




#80
 1,2,4-Trimethylbenzene
 Concen: 0.271 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.00 min
 Lab File: VX014081.D
 Acq: 18 Dec 2019 04:33

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Tot Ion:105 Resp: 5514
 Ion Ratio Lower Upper
 105 100
 120 7.3 0.0 92.0



#81
 sec-Butylbenzene
 Concen: 0.236 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. -0.13 min
 Lab File: VX014081.D
 Acq: 18 Dec 2019 04:33

Tgt Ion:105 Resp: 5514
 Ion Ratio Lower Upper
 105 100
 134 2.0 0.0 40.2

