

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020819\
 Data File : VX007441.D
 Acq On : 08 Feb 2019 14:49
 Operator : JC/SP
 Sample : K1441-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 08 23:00:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	75616	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	406874	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	357836	30.00	ug/l	0.00

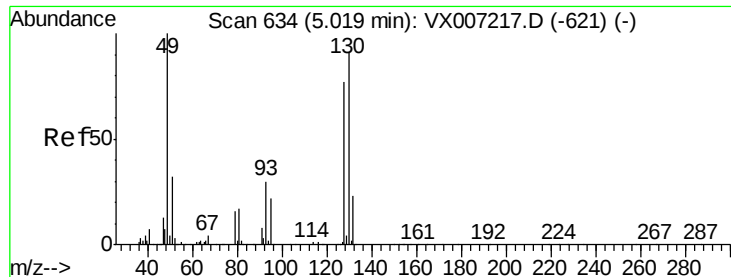
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	154152	31.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.53%
60) 4-Bromofluorobenzene	11.13	95	156806	28.39	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.63%
63) Toluene-d8	8.71	98	475156	29.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.20%

Target Compounds

					Ovalue	
14) Acrylonitrile	3.15	53	710	0.285	ug/l	91
15) Acetone	2.45	58	374733	529.815	ug/l	94
23) tert-Butyl Alcohol	3.07	59	542	0.518	ug/l #	90
25) Chloroform	5.21	83	987979	132.486	ug/l	99
30) 2-Butanone	4.70	43	53208	16.789	ug/l #	94
40) Dibromomethane	7.66	93	631	0.214	ug/l	84
41) Bromodichloromethane	7.90	83	4615	0.890	ug/l #	79
43) Ethyl Acetate	5.18	43	6659	1.126	ug/l	98
45) 1,4-Dioxane	7.76	88	99	0.885	ug/l #	1
53) Dibromochloromethane	9.59	129	1049	0.234	ug/l	60
56) Bromoform	10.86	173	3067	0.901	ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	4774	0.283	ug/l	34

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

Instrument :

MSVOA_X

ClientSampled :

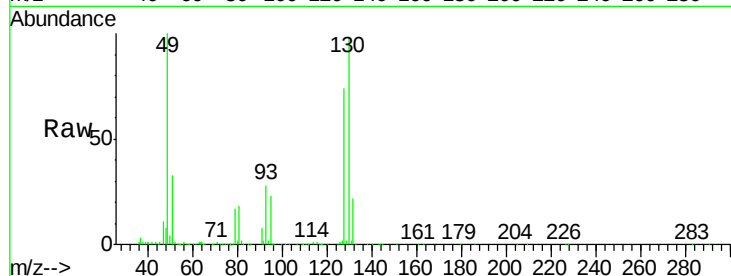
Tot Ion:128 Resp: 75616

Ion Ratio Lower Upper

128 100

49 138.3 0.0 345.5

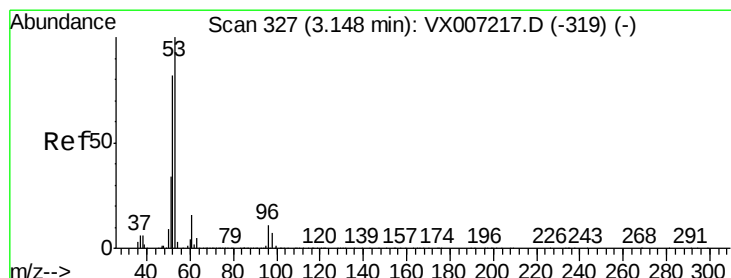
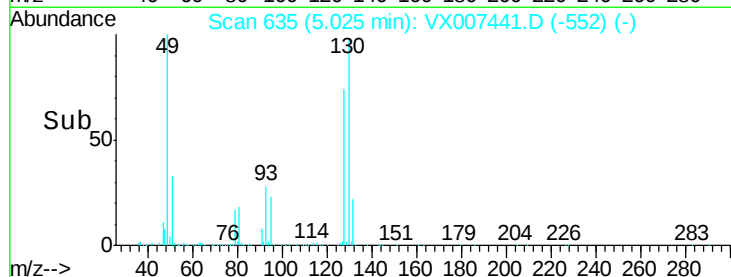
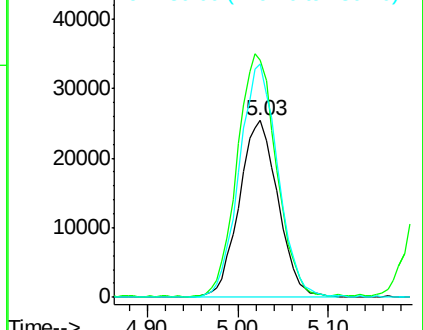
130 131.2 0.0 320.0



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



#14

Acrylonitrile

Concen: 0.285 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

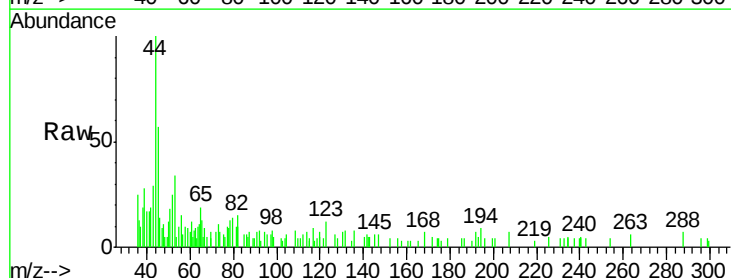
Tgt Ion: 53 Resp: 710

Ion Ratio Lower Upper

53 100

52 91.7 41.3 124.1

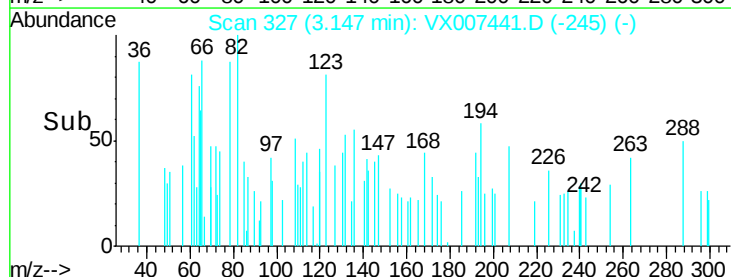
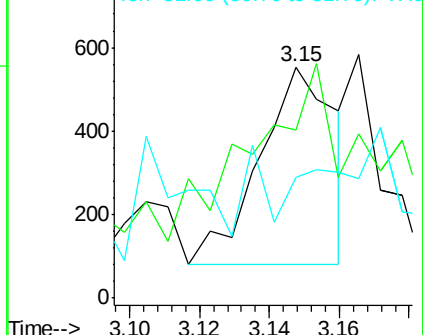
51 40.6 17.9 53.8

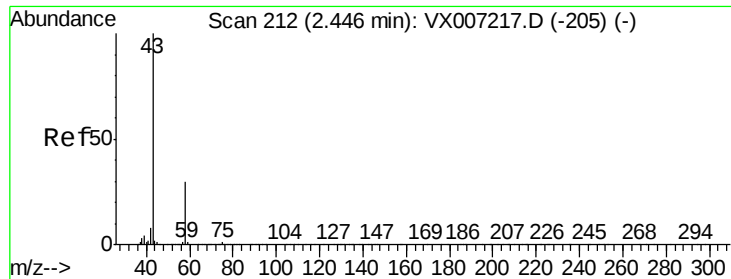


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#15

Acetone

Concen: 529.815 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

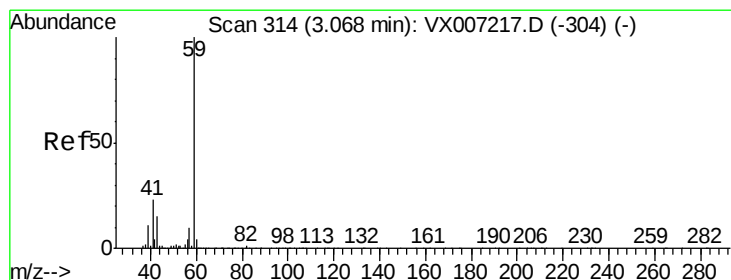
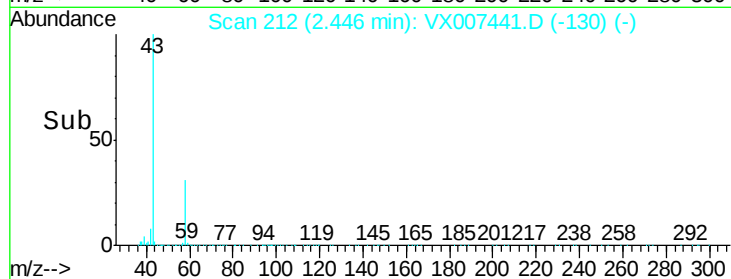
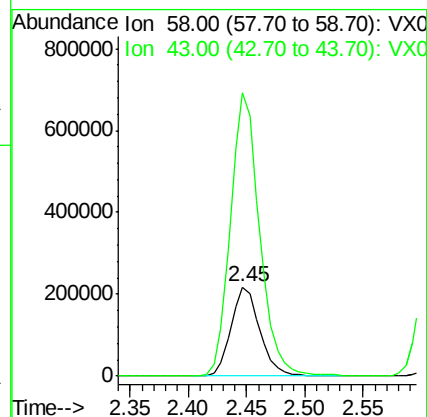
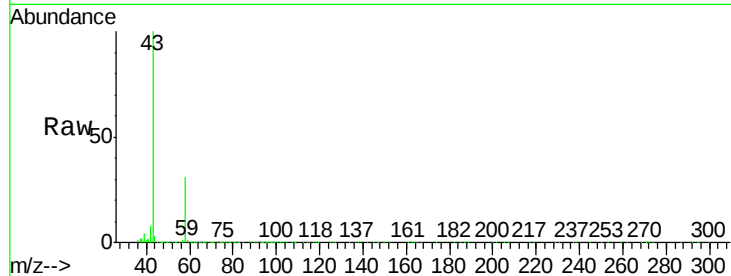
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 58 Resp: 374733

Ion Ratio Lower Upper

58 100

43 318.9 265.9 398.9



#23

tert-Butyl Alcohol

Concen: 0.518 ug/l

RT: 3.07 min Scan# 315

Delta R.T. 0.01 min

Lab File: VX007441.D

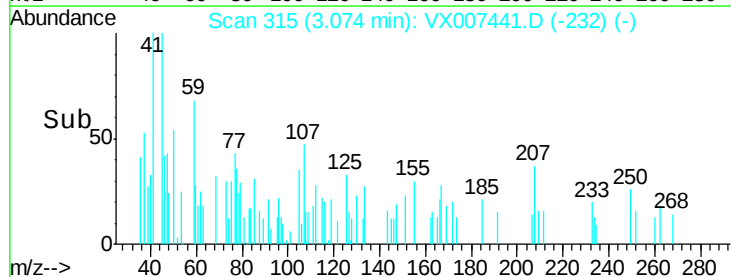
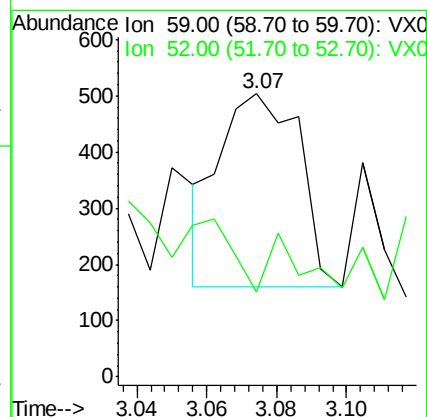
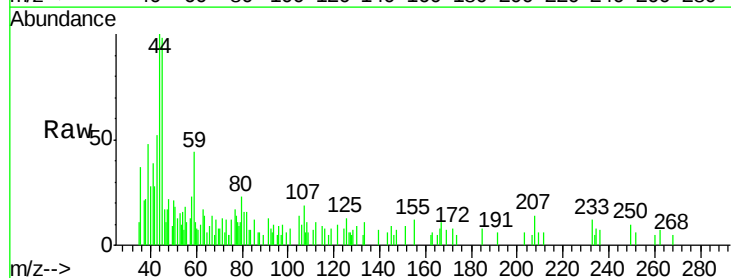
Acq: 08 Feb 2019 14:49

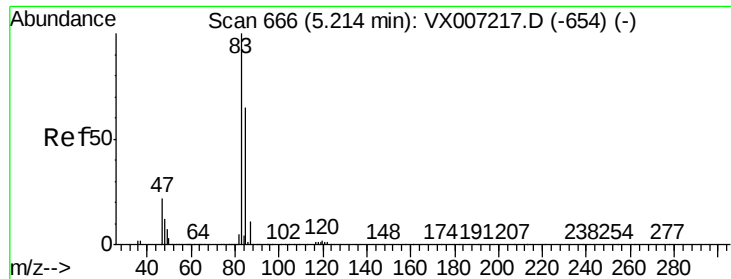
Tgt Ion: 59 Resp: 542

Ion Ratio Lower Upper

59 100

52 12.7 0.2 0.2#





#25

Chloroform

Concen: 132.486 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

Instrument :

MSVOA_X

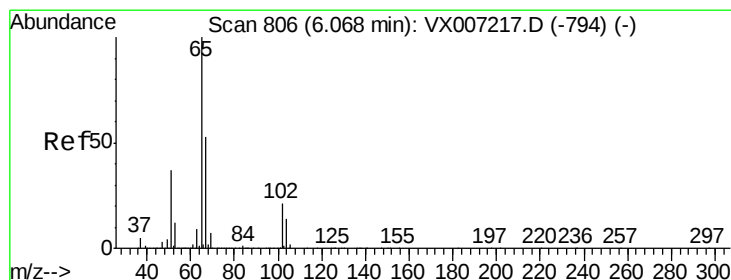
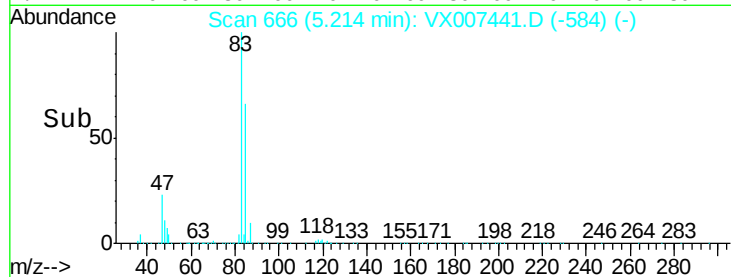
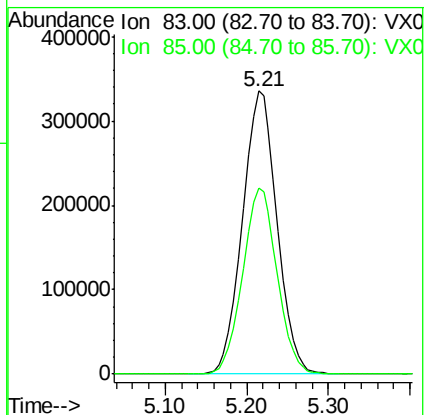
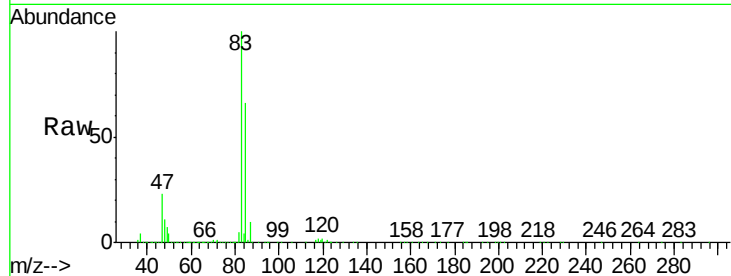
ClientSampleId :

Tot Ion: 83 Resp: 987979

Ion Ratio Lower Upper

83 100

85 65.6 51.9 77.9



#27

1,2-Dichloroethane-d4

Concen: 31.056 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX007441.D

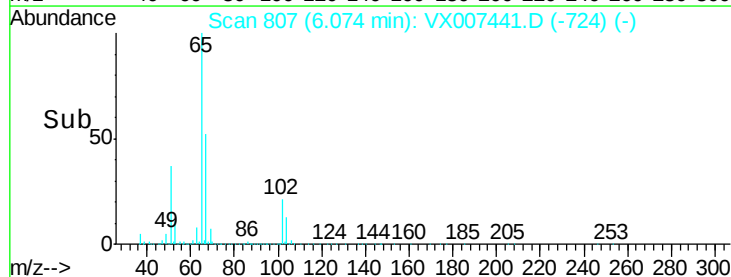
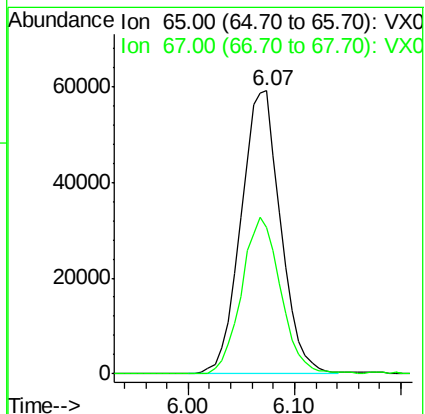
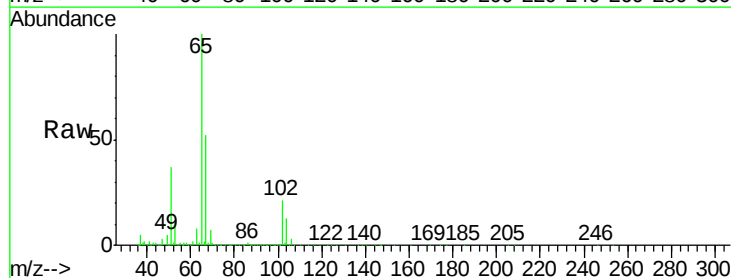
Acq: 08 Feb 2019 14:49

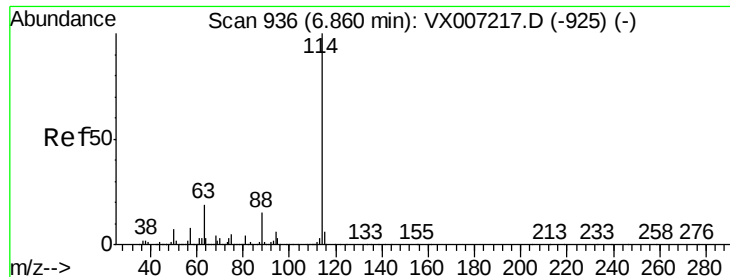
Tgt Ion: 65 Resp: 154152

Ion Ratio Lower Upper

65 100

67 54.2 42.0 63.0

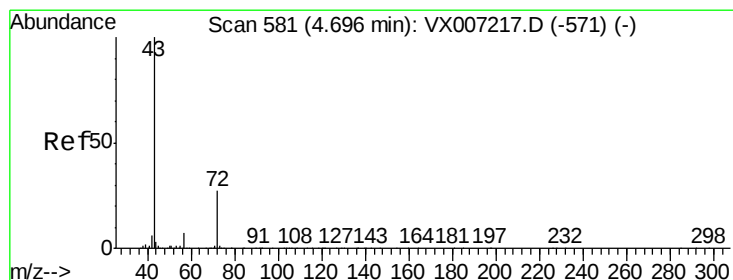
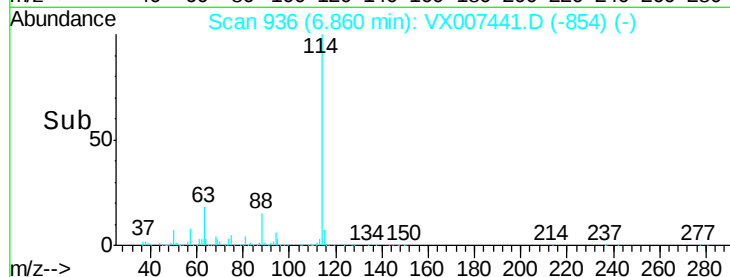
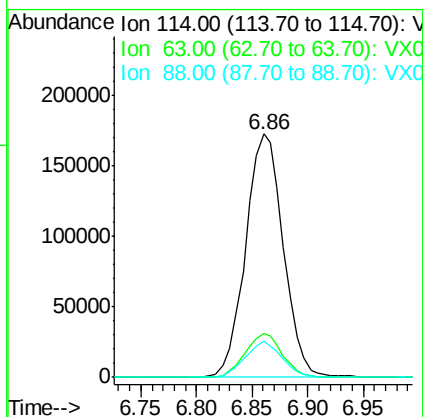
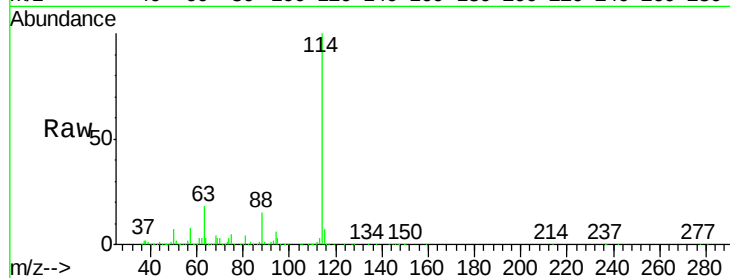




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX007441.D
Acq: 08 Feb 2019 14:49

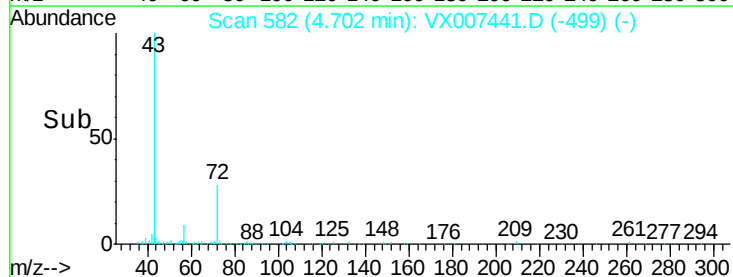
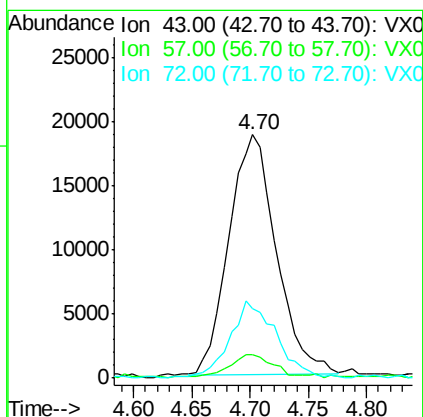
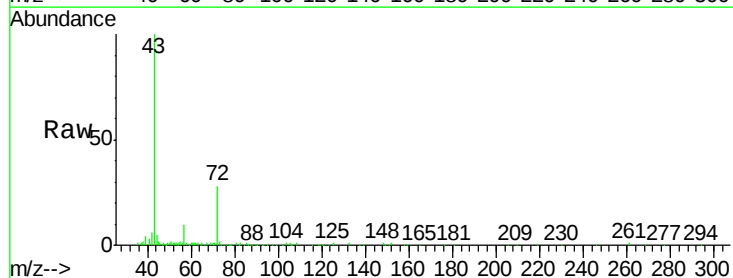
Instrument :
MSVOA_X
ClientSampleId :

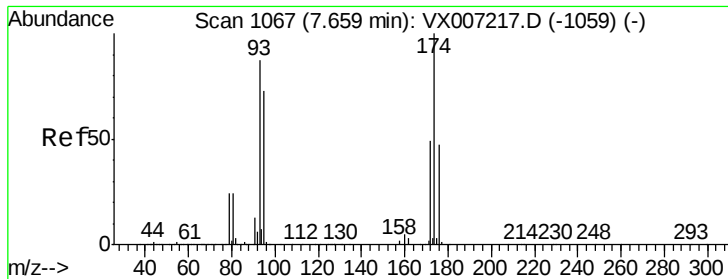
Tot Ion:114 Resp: 406874
Ion Ratio Lower Upper
114 100
63 18.0 14.6 21.8
88 14.4 11.8 17.6



#30
2-Butanone
Concen: 16.789 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007441.D
Acq: 08 Feb 2019 14:49

Tgt Ion: 43 Resp: 53208
Ion Ratio Lower Upper
43 100
57 8.7 3.3 4.9#
72 30.1 22.0 33.0





#40

Dibromomethane

Concen: 0.214 ug/l

RT: 7.66 min Scan# 1068

Delta R.T. 0.01 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

Instrument :

MSVOA_X

ClientSampled :

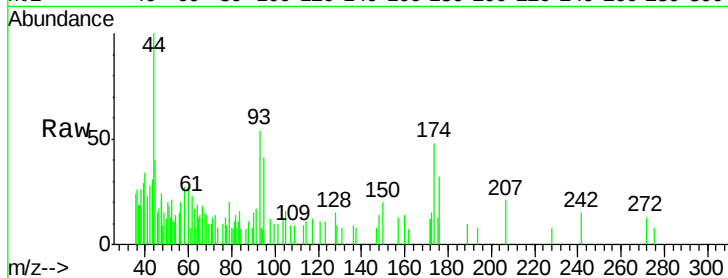
Tot Ion: 93 Resp: 631

Ion Ratio Lower Upper

93 100

95 75.3 0.0 172.4

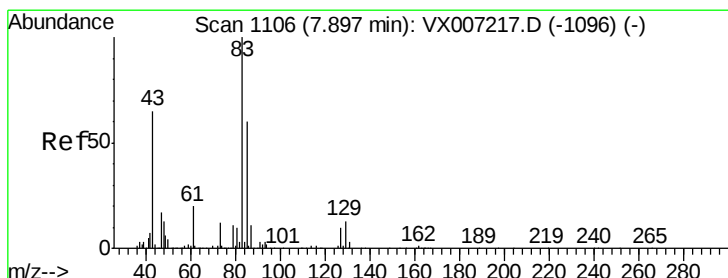
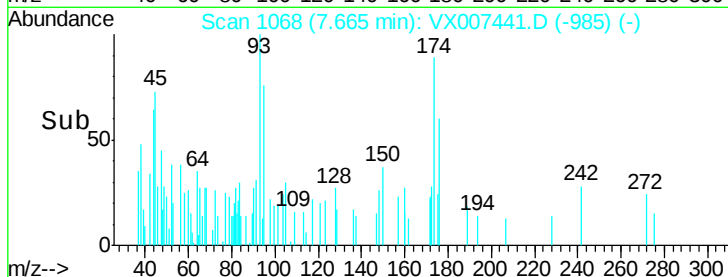
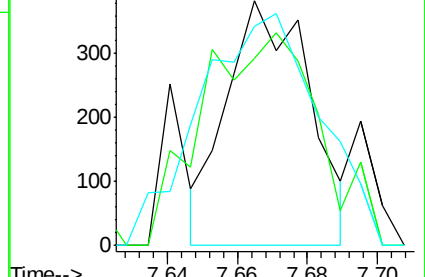
174 137.7 0.0 233.0



Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V



#41

Bromodichloromethane

Concen: 0.890 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

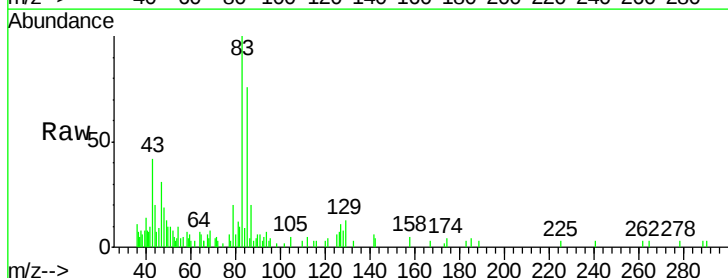
Tgt Ion: 83 Resp: 4615

Ion Ratio Lower Upper

83 100

85 76.2 48.2 72.2#

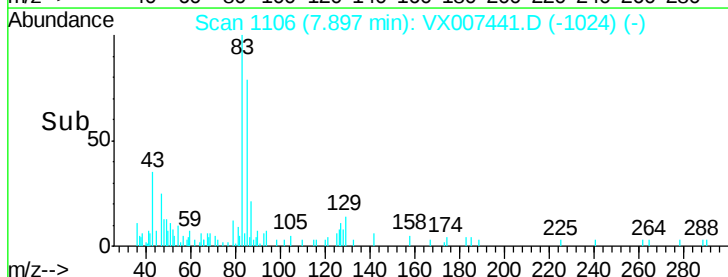
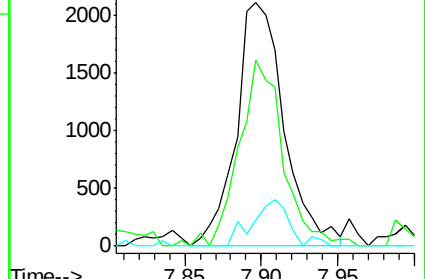
127 18.5 8.3 12.5#

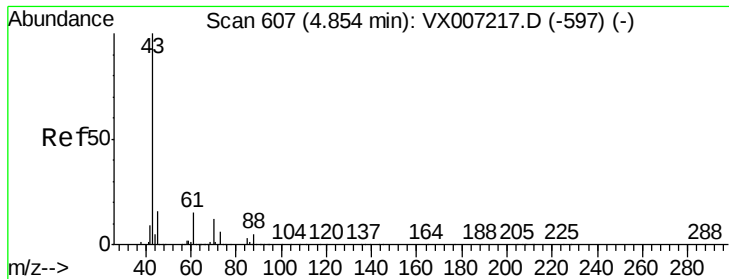


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V

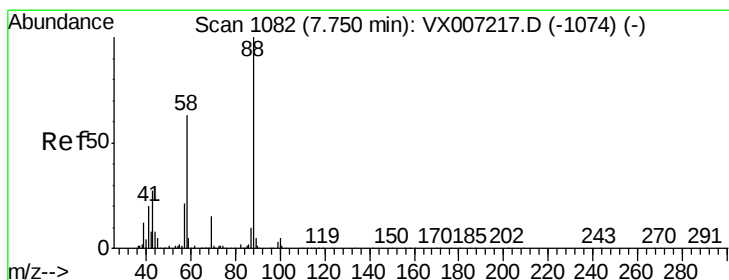
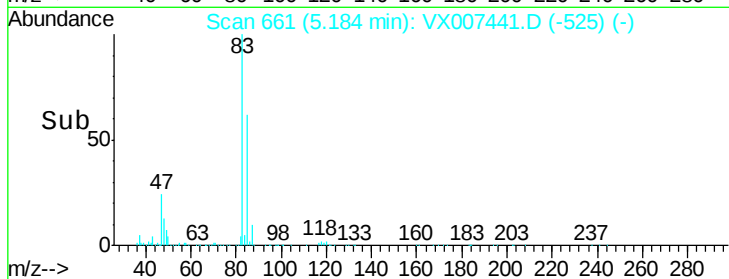
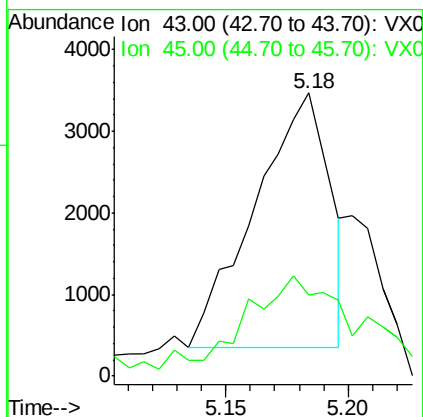
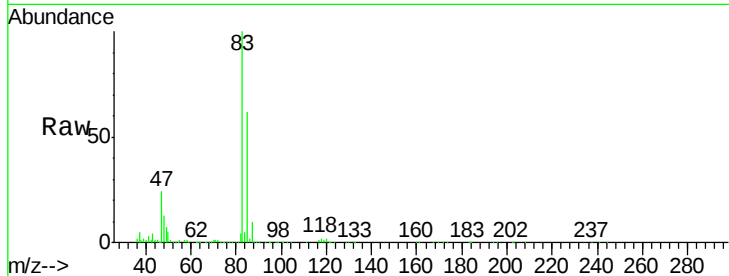




#43
Ethyl Acetate
Concen: 1.126 ug/l
RT: 5.18 min Scan# 661
Delta R.T. 0.33 min
Lab File: VX007441.D
Acq: 08 Feb 2019 14:49

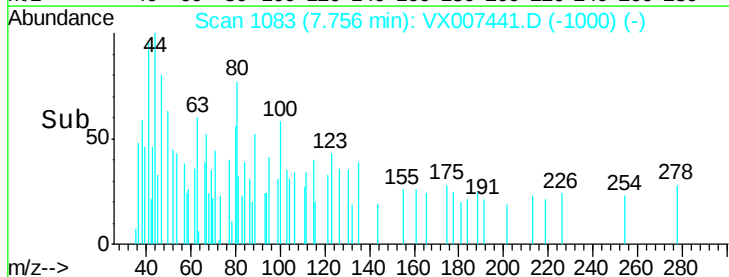
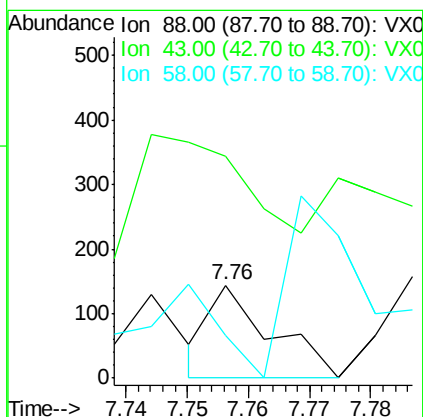
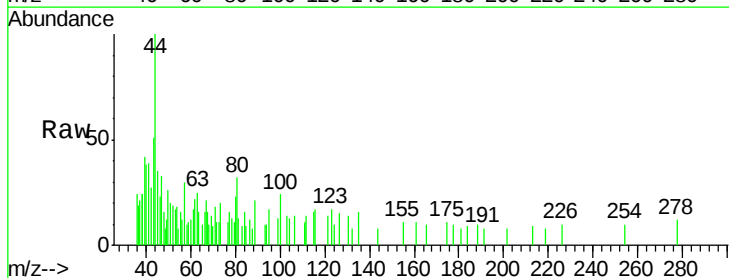
Instrument :
MSVOA_X
ClientSampled :

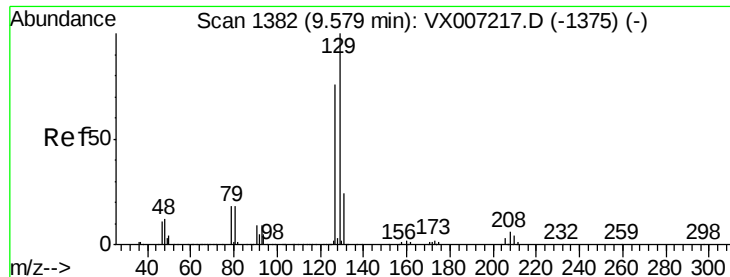
Tot Ion: 43 Resp: 6659
Ion Ratio Lower Upper
43 100
45 15.4 11.7 17.5



#45
1,4-Dioxane
Concen: 0.885 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007441.D
Acq: 08 Feb 2019 14:49

Tgt Ion: 88 Resp: 99
Ion Ratio Lower Upper
88 100
43 239.4 23.5 35.3#
58 108.1 51.6 77.4#





#53

Dibromochloromethane

Concen: 0.234 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

Instrument :

MSVOA_X

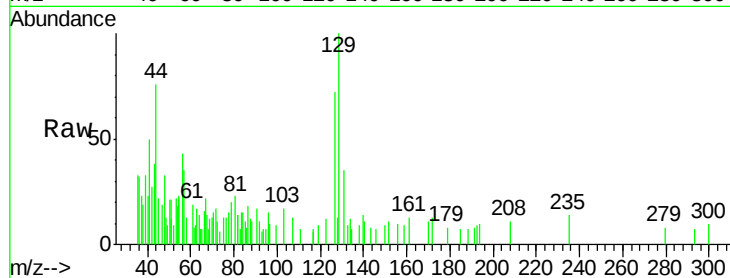
ClientSampleId :

Tot Ion:129 Resp: 1049

Ion Ratio Lower Upper

129 100

127 109.4 37.7 113.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.59

800

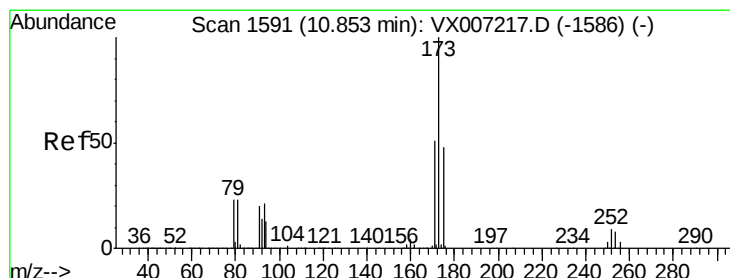
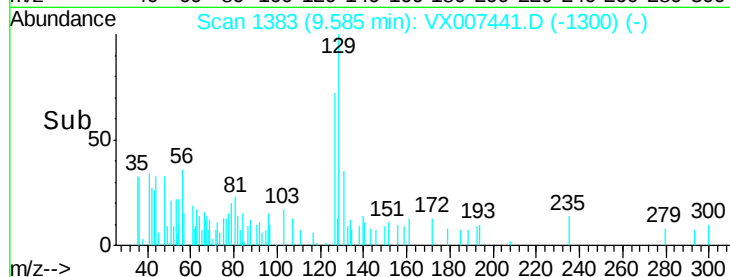
600

400

200

0

Time--> 9.54 9.56 9.58 9.60



#56

Bromoform

Concen: 0.901 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

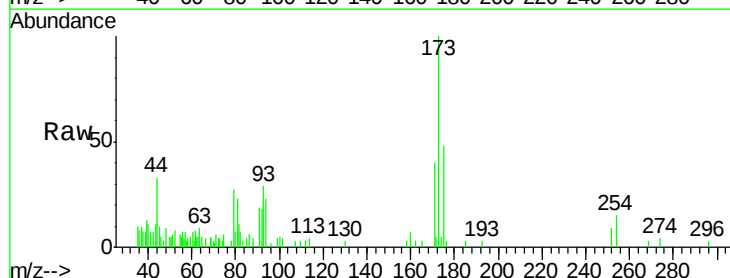
Tgt Ion:173 Resp: 3067

Ion Ratio Lower Upper

173 100

175 50.5 38.9 58.3

254 10.1 8.5 12.7



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

2500

2000

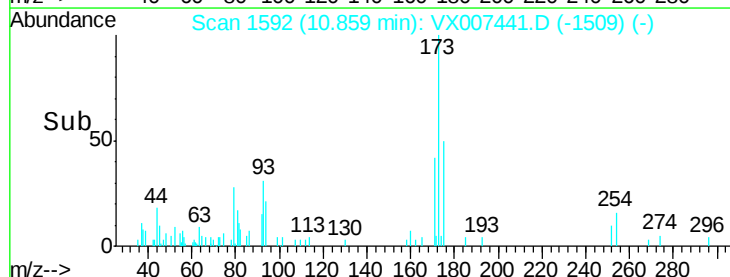
1500

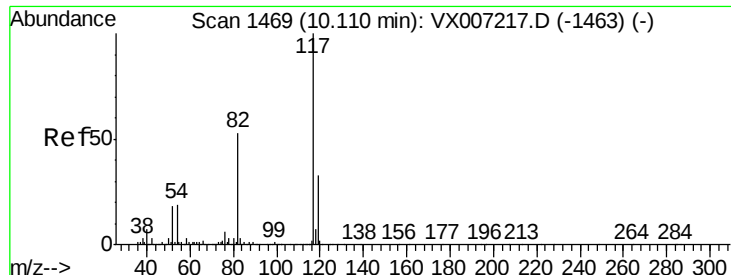
1000

500

0

Time--> 10.80 10.85 10.90

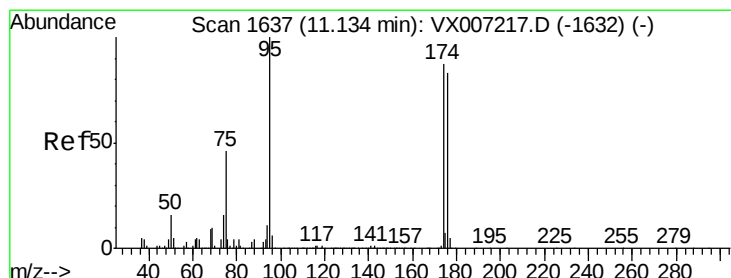
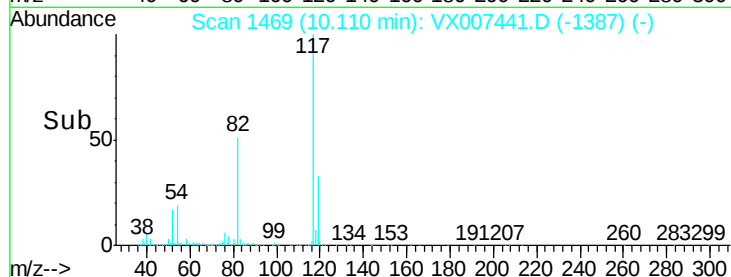
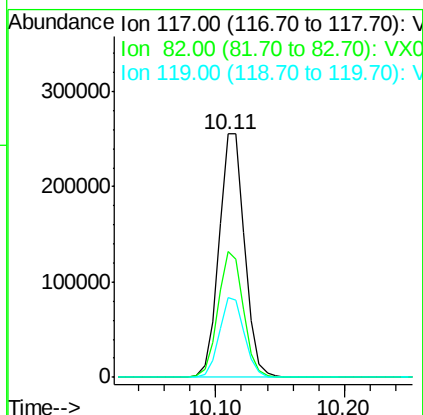
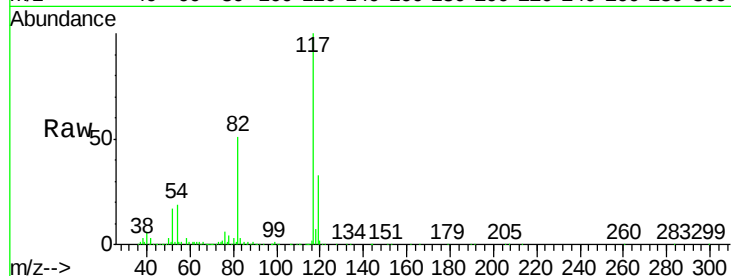




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007441.D
Acq: 08 Feb 2019 14:49

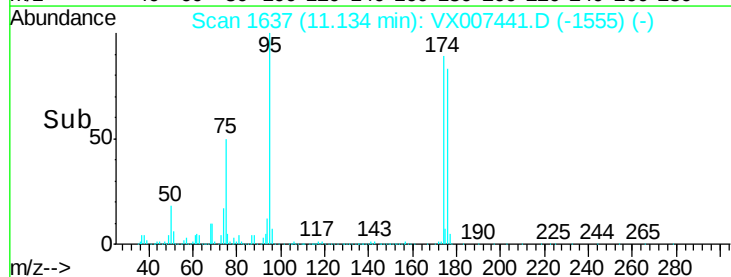
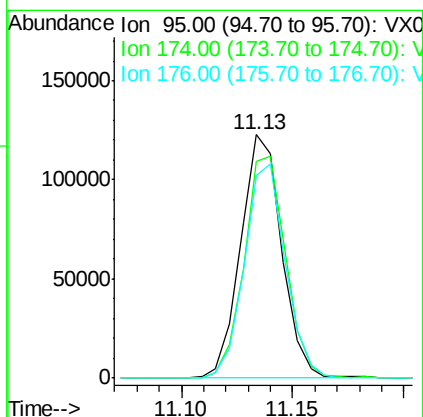
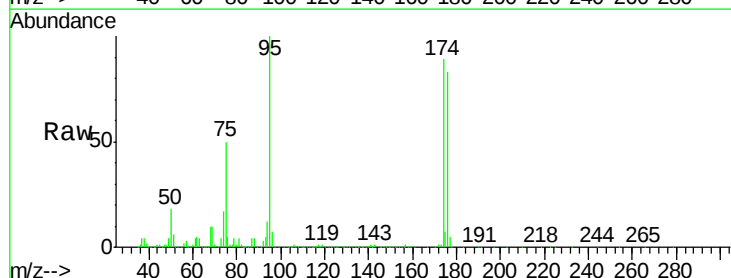
Instrument :
MSVOA_X
ClientSampleId :

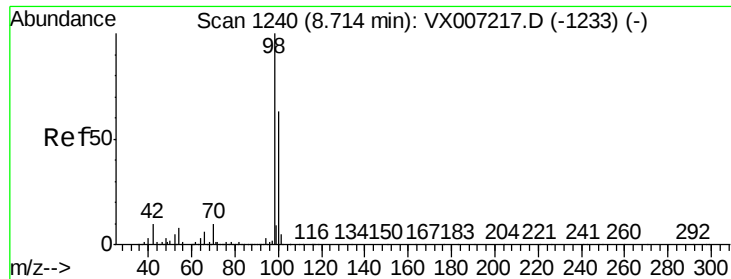
Tot Ion:117 Resp: 357836
Ion Ratio Lower Upper
117 100
82 51.0 41.4 62.0
119 32.1 25.7 38.5



#60
4-Bromofluorobenzene
Concen: 28.392 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007441.D
Acq: 08 Feb 2019 14:49

Tgt Ion: 95 Resp: 156806
Ion Ratio Lower Upper
95 100
174 93.0 74.8 112.2
176 88.8 72.5 108.7





#63

Toluene-d8

Concen: 29.459 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

Instrument :

MSVOA_X

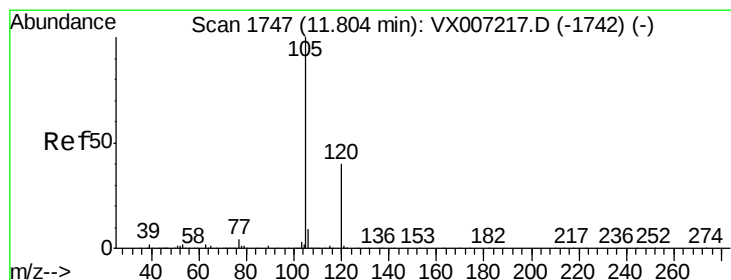
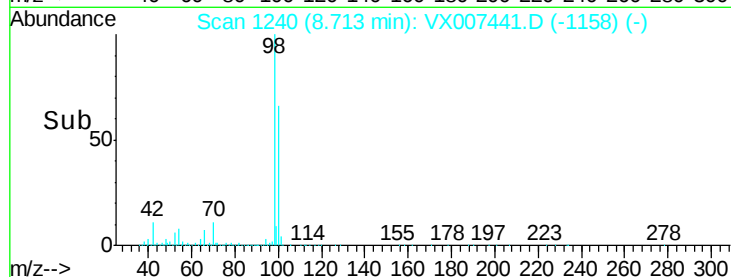
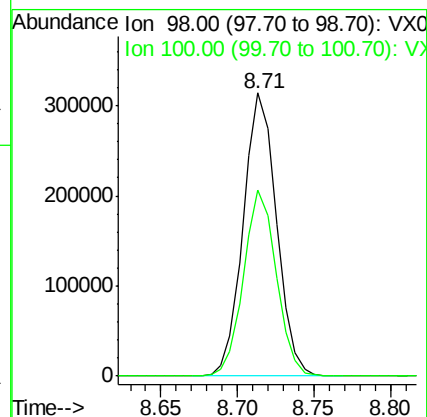
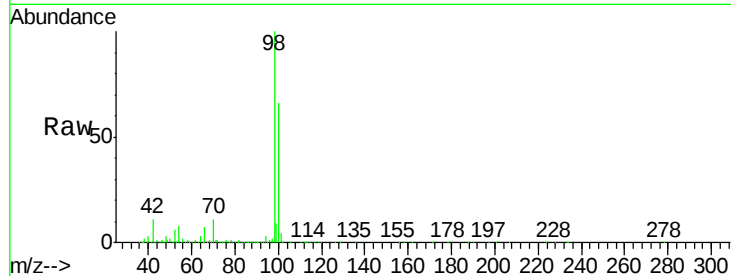
ClientSampleId :

Tot Ion: 98 Resp: 475156

Ion Ratio Lower Upper

98 100

100 64.5 49.9 74.9



#80

1,2,4-Trimethylbenzene

Concen: 0.283 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX007441.D

Acq: 08 Feb 2019 14:49

Tgt Ion:105 Resp: 4774

Ion Ratio Lower Upper

105 100

120 3.0 0.0 94.4

