

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062419\
 Data File : VX010412.D
 Acq On : 24 Jun 2019 15:27
 Operator : JC/SP
 Sample : K3164-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BAT-B09

Quant Time: Jun 25 03:38:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	303321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	459819	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	414165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188946	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	140735	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
35) Dibromofluoromethane	5.49	113	141777	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
50) Toluene-d8	8.71	98	539066	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	11.13	95	180967	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	

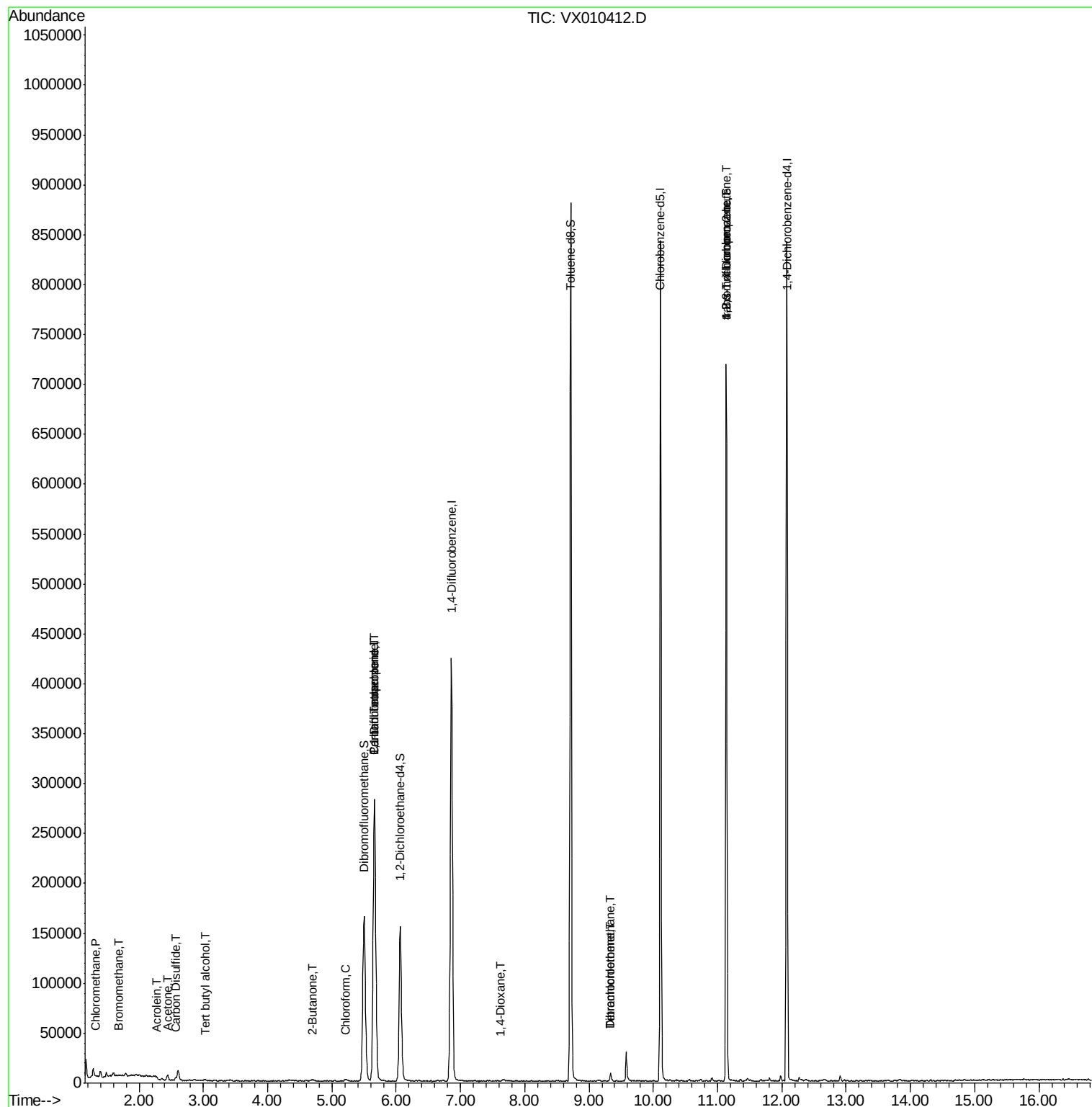
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	868	0.353	ug/l #	85
5) Bromomethane	1.67	94	612	0.467	ug/l #	63
11) Tert butyl alcohol	3.03	59	742	0.997	ug/l #	71
13) Acrolein	2.28	56	501	1.015	ug/l #	52
16) Acetone	2.45	43	6343	4.450	ug/l	95
17) Carbon Disulfide	2.57	76	3406	0.483	ug/l	98
25) 2-Butanone	4.70	43	753	0.360	ug/l #	88
30) Chloroform	5.21	83	2032	0.419	ug/l	93
36) 1,1-Dichloropropene	5.66	75	18613	5.094	ug/l #	48
38) Carbon Tetrachloride	5.67	117	26265	6.638	ug/l #	15
49) 1,4-Dioxane	7.63	88	21	0.252	ug/l #	1
60) Dibromochloromethane	9.34	129	1432	0.414	ug/l #	11
64) Tetrachloroethene	9.34	164	1500	0.448	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	85374	24.796	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	85374	57.846	ug/l #	16

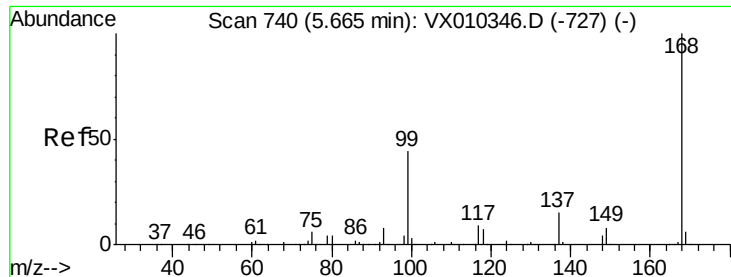
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampleId :

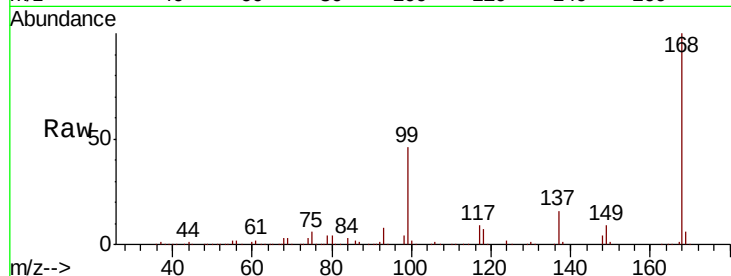
BAT-B09

Tot Ion:168 Resp: 303321

Ion Ratio Lower Upper

168 100

99 46.4 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

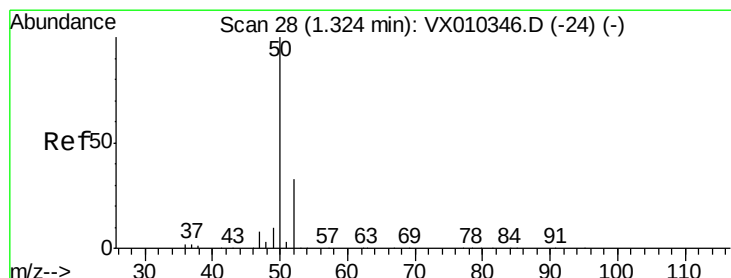
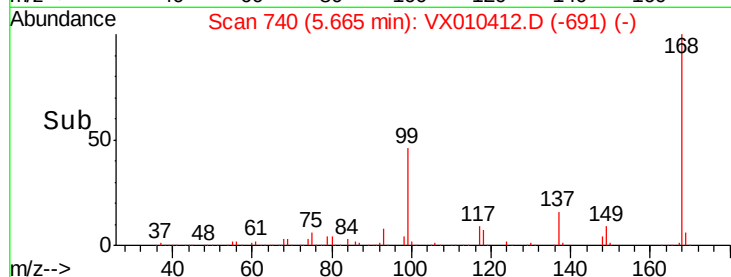
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.353 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010412.D

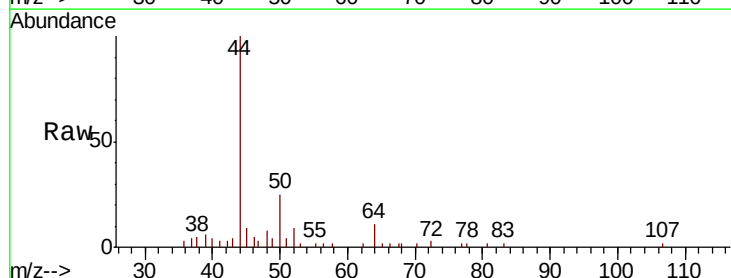
Acq: 24 Jun 2019 15:27

Tgt Ion: 50 Resp: 868

Ion Ratio Lower Upper

50 100

52 41.8 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

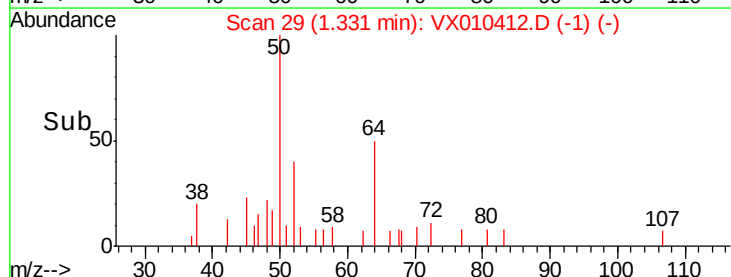
600

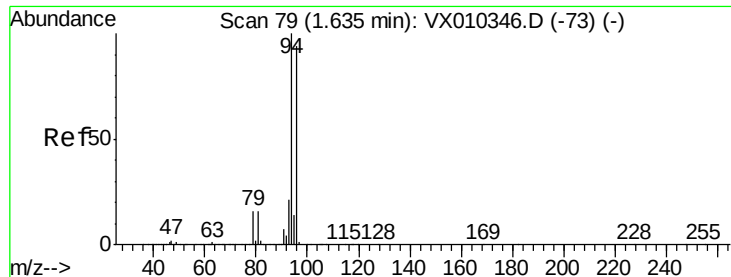
400

200

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.467 ug/l

RT: 1.67 min Scan# 85

Delta R.T. 0.04 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampled :

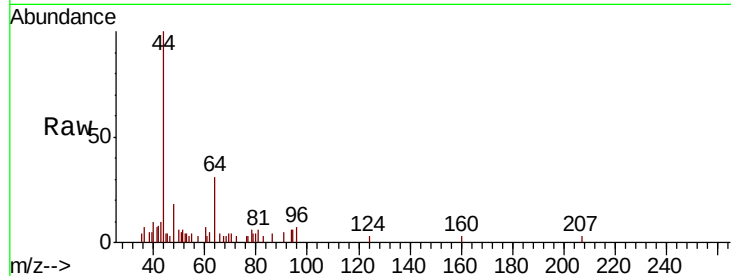
BAT-B09

Tot Ion: 94 Resp: 612

Ion Ratio Lower Upper

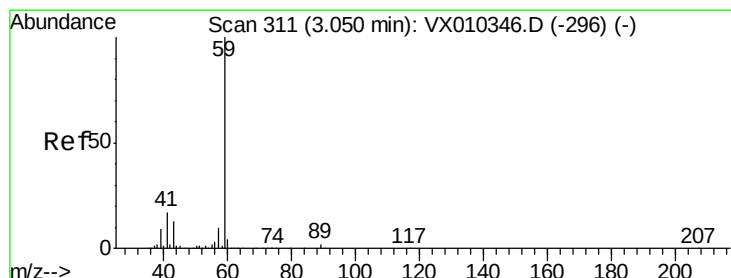
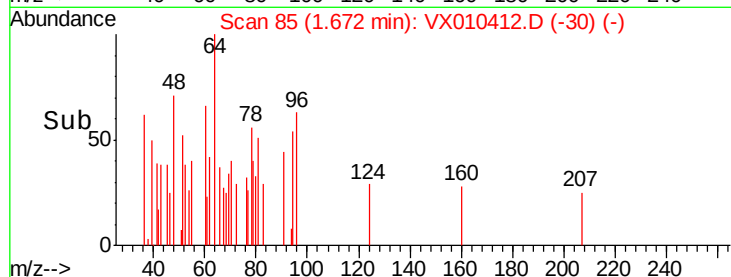
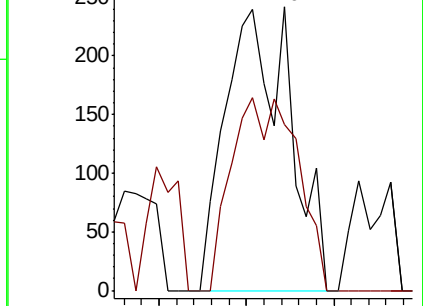
94 100

96 58.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.997 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010412.D

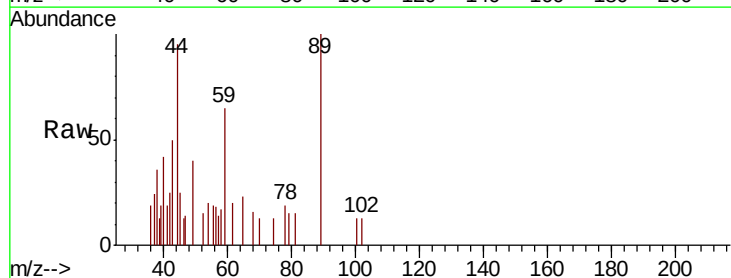
Acq: 24 Jun 2019 15:27

Tgt Ion: 59 Resp: 742

Ion Ratio Lower Upper

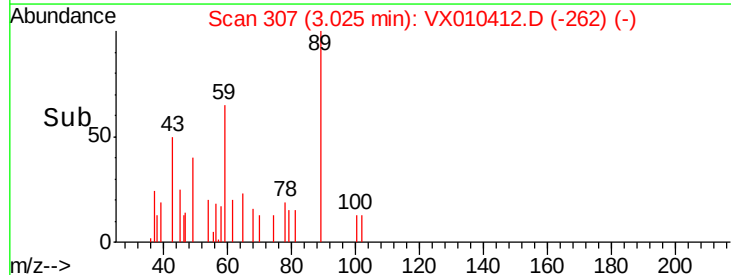
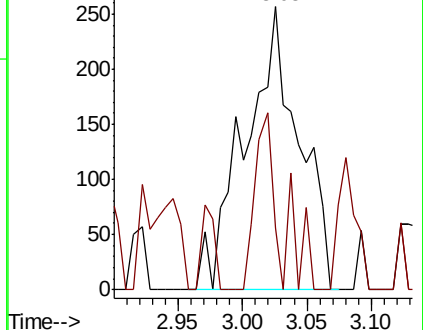
59 100

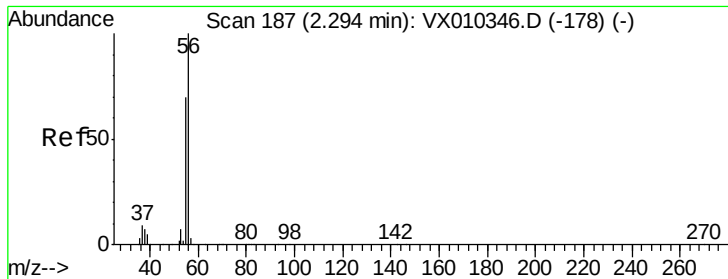
57 20.2 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.015 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampled :

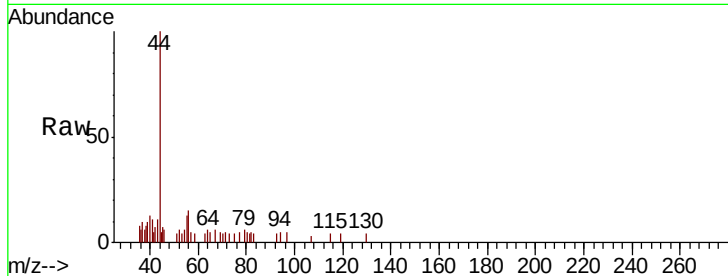
BAT-B09

Tot Ion: 56 Resp: 501

Ion Ratio Lower Upper

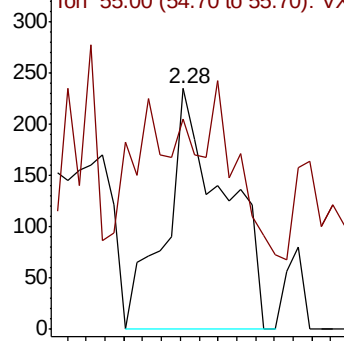
56 100

55 31.1 56.9 85.3#

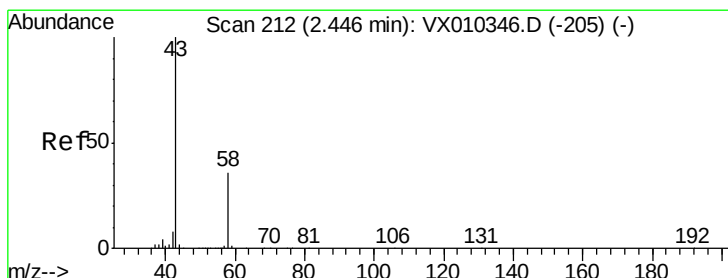
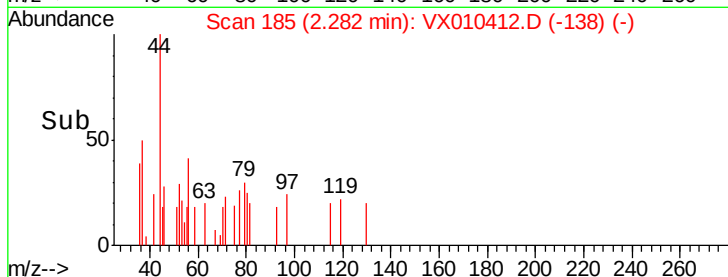


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 4.450 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010412.D

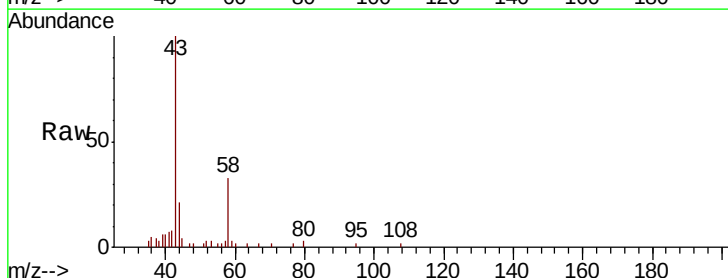
Acq: 24 Jun 2019 15:27

Tgt Ion: 43 Resp: 6343

Ion Ratio Lower Upper

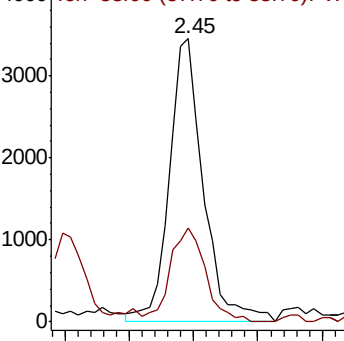
43 100

58 33.0 28.9 43.3

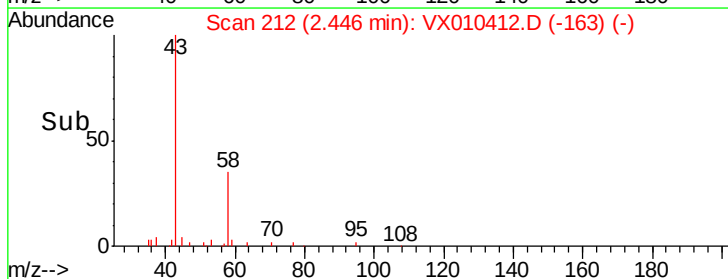


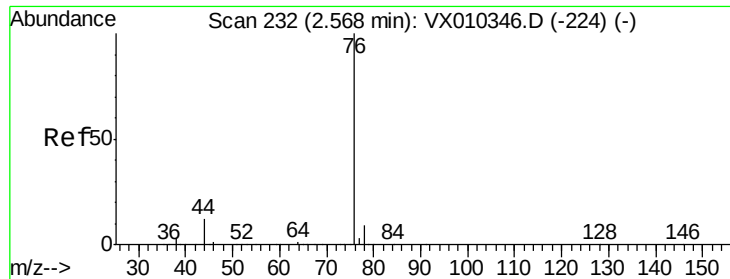
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

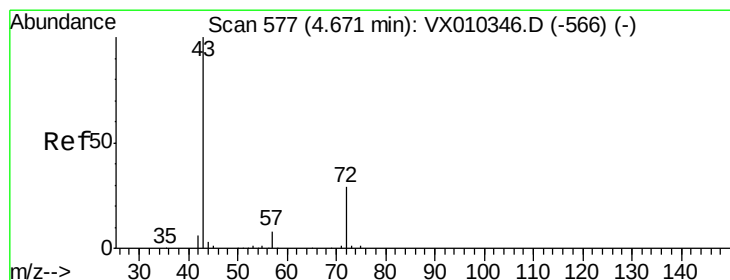
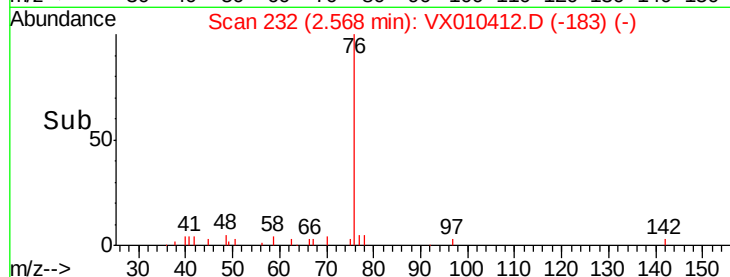
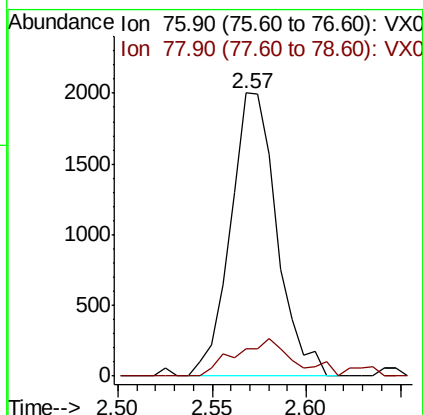
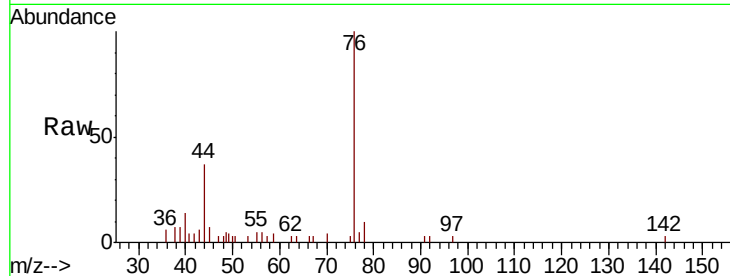




#17
Carbon Disulfide
Concen: 0.483 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX010412.D
Acq: 24 Jun 2019 15:27

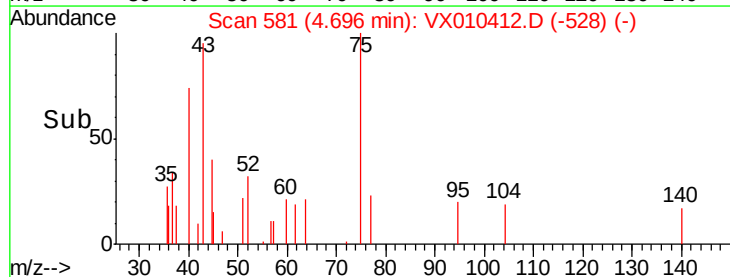
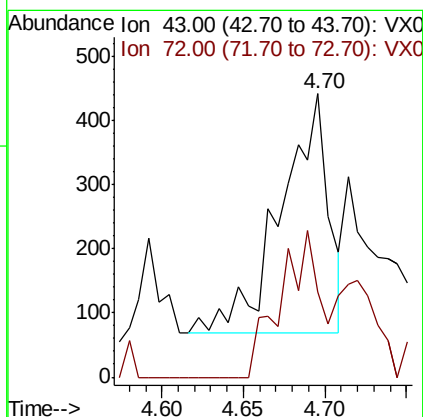
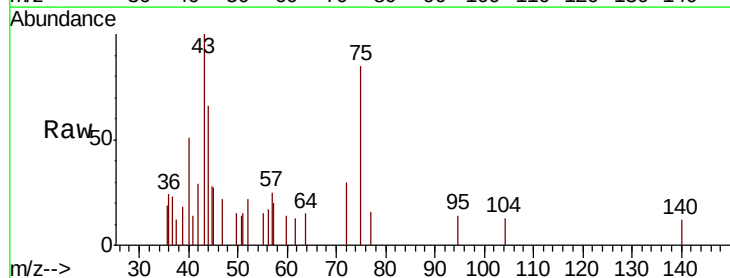
Instrument :
MSVOA_X
ClientSampled :
BAT-B09

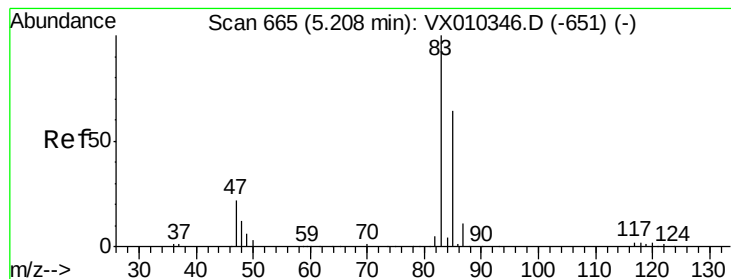
Tot Ion: 76 Resp: 3406
Ion Ratio Lower Upper
76 100
78 9.9 7.3 10.9



#25
2-Butanone
Concen: 0.360 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX010412.D
Acq: 24 Jun 2019 15:27

Tgt Ion: 43 Resp: 753
Ion Ratio Lower Upper
43 100
72 35.8 23.3 34.9#





#30

Chloroform

Concen: 0.419 ug/l

RT: 5.21 min Scan# 665

Delta R.T. 0.00 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampleId :

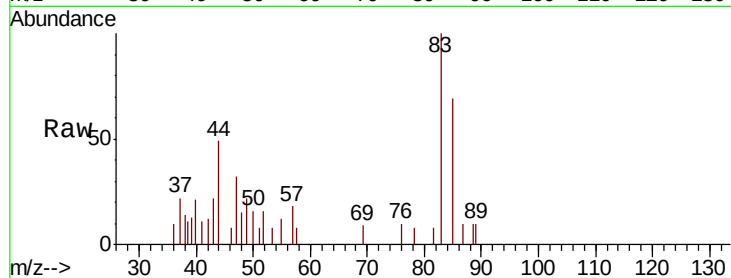
BAT-B09

Tot Ion: 83 Resp: 2032

Ion Ratio Lower Upper

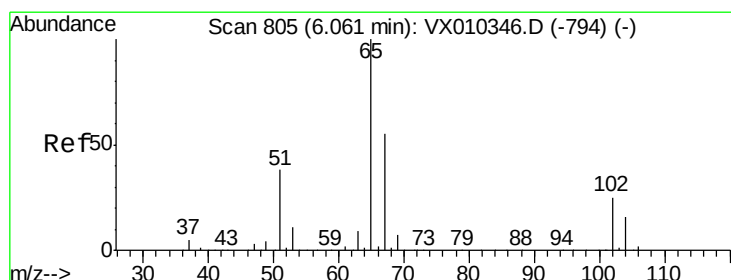
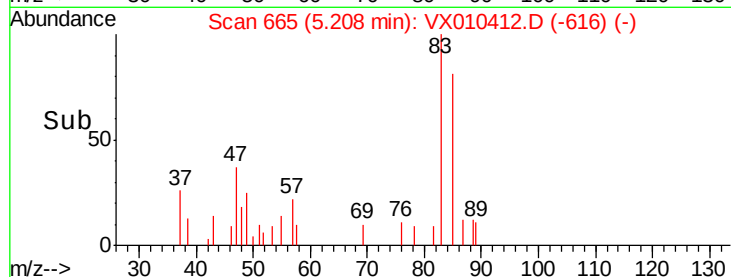
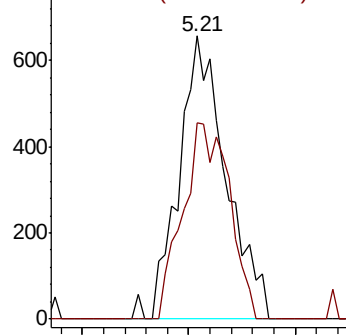
83 100

85 69.1 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.486 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010412.D

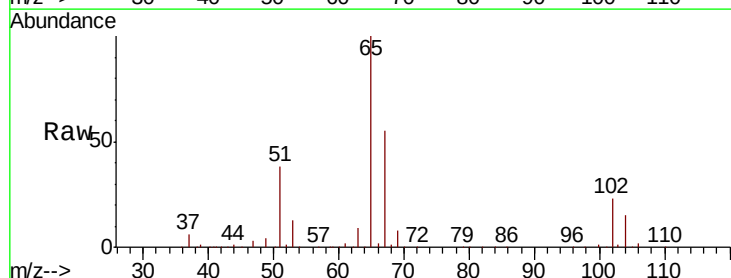
Acq: 24 Jun 2019 15:27

Tgt Ion: 65 Resp: 140735

Ion Ratio Lower Upper

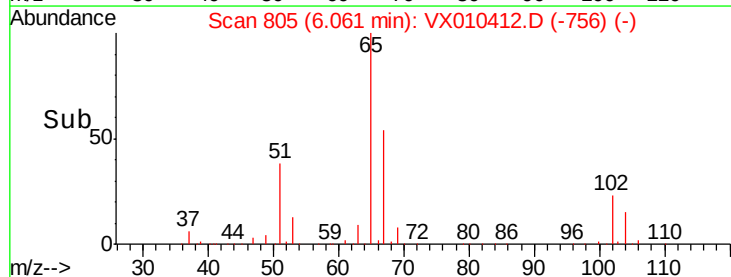
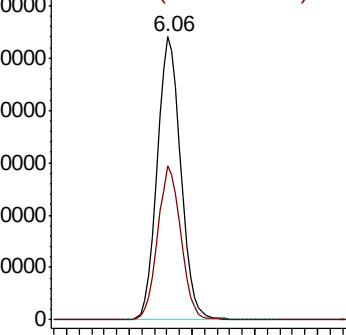
65 100

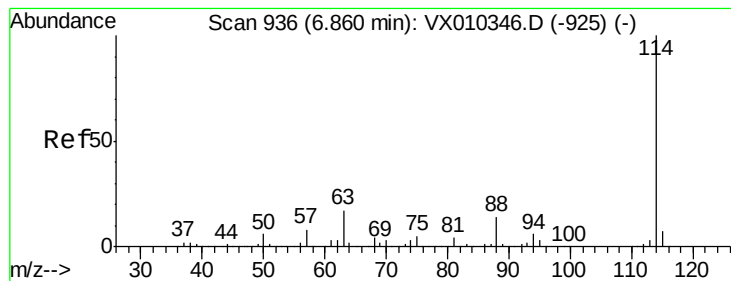
67 53.8 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampled :

BAT-B09

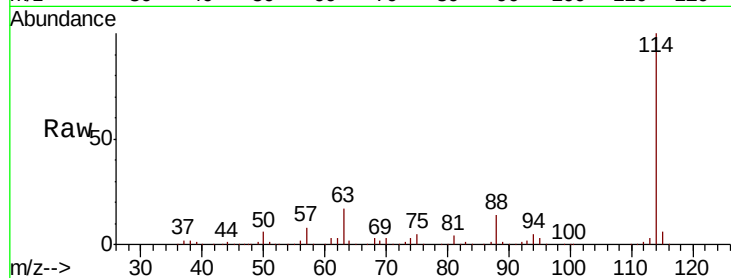
Tot Ion:114 Resp: 459819

Ion Ratio Lower Upper

114 100

63 17.0 0.0 33.8

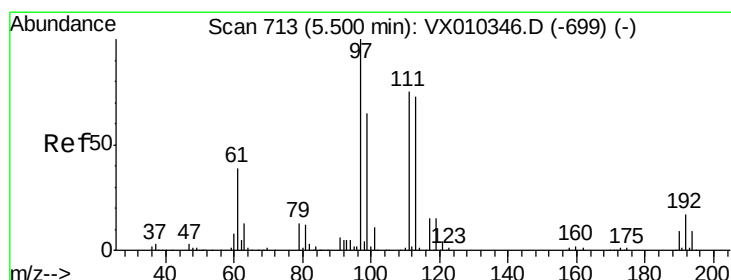
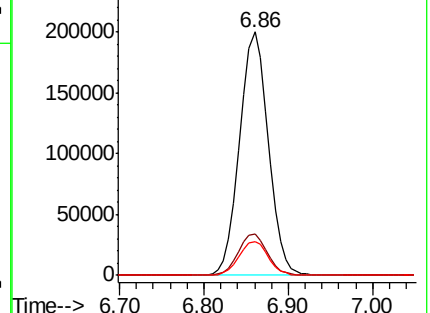
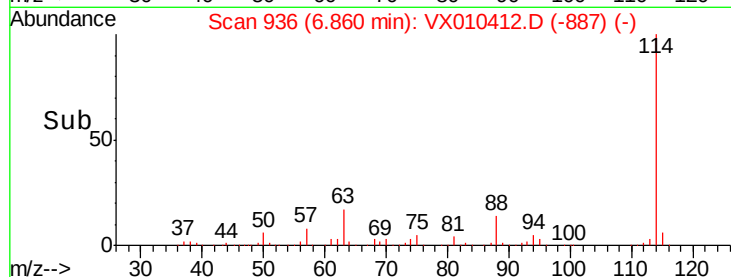
88 14.0 0.0 27.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.395 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

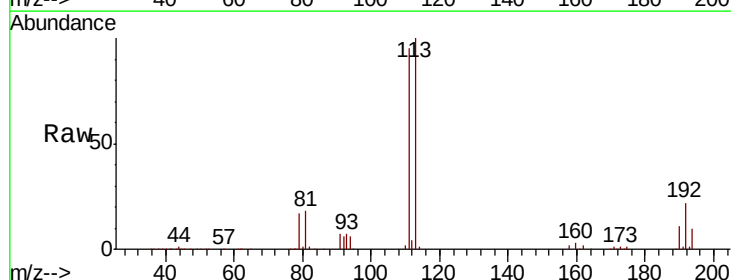
Tgt Ion:113 Resp: 141777

Ion Ratio Lower Upper

113 100

111 101.7 81.2 121.8

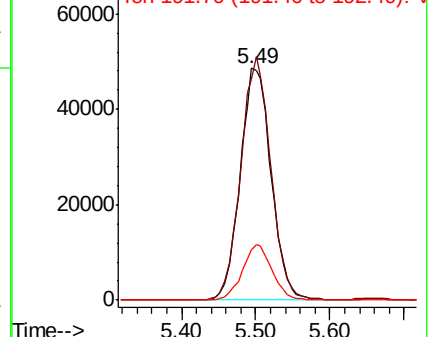
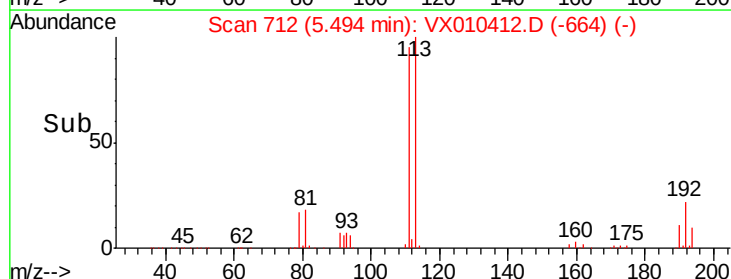
192 22.9 18.6 27.8

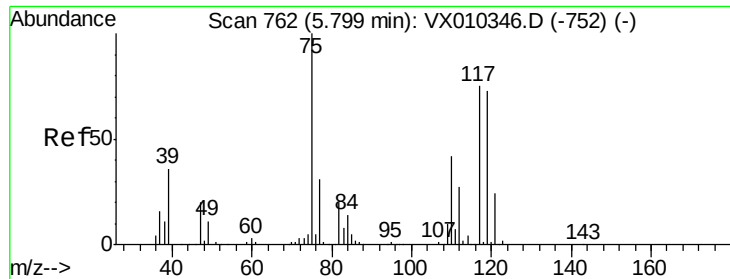


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

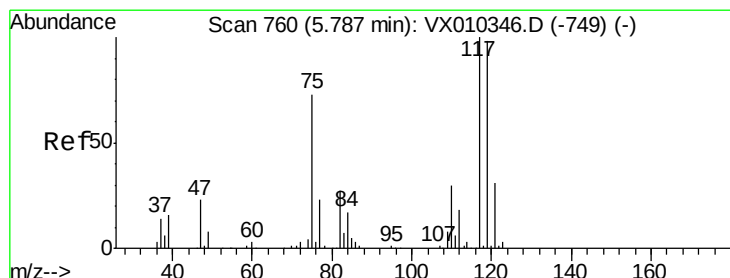
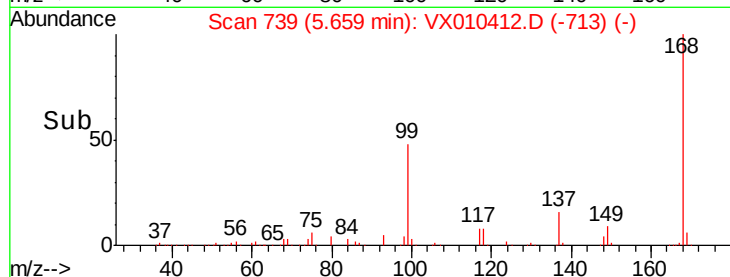
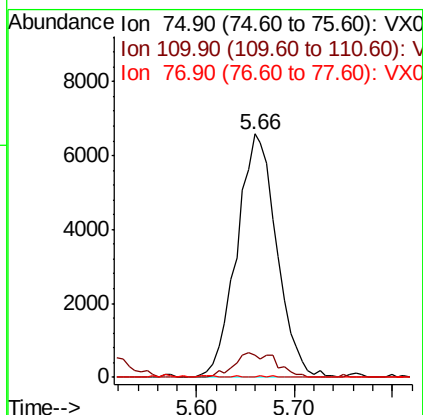
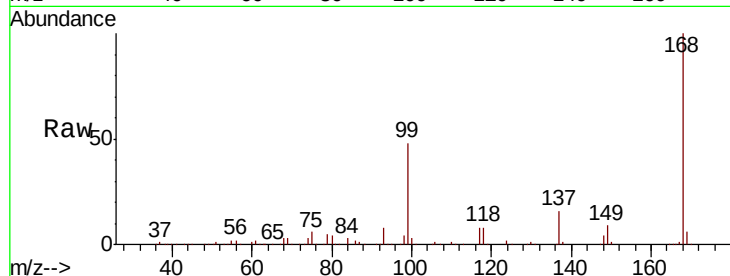




#36
 1,1-Dichloropropene
 Concen: 5.094 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010412.D
 Acq: 24 Jun 2019 15:27

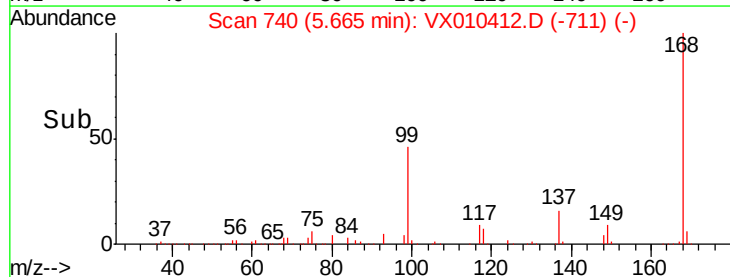
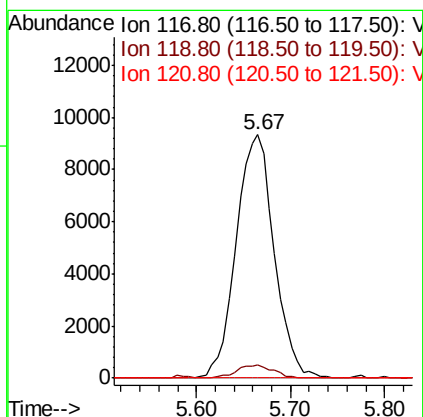
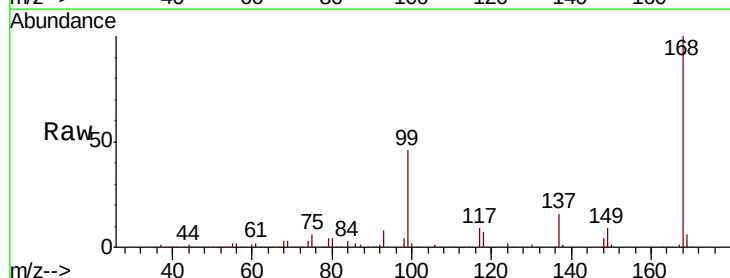
Instrument :
 MSVOA_X
 ClientSampleId :
 BAT-B09

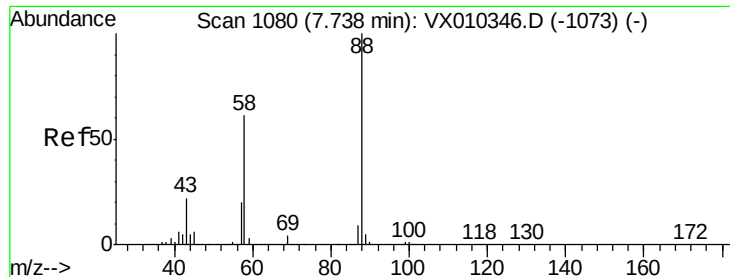
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.8	62.2#
77	0.2	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.638 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010412.D
 Acq: 24 Jun 2019 15:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.2	117.4#
121	0.0	24.7	37.1#

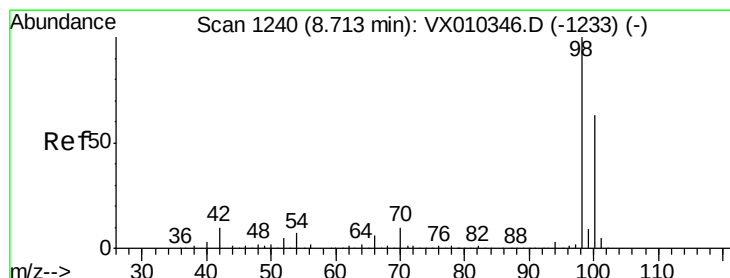
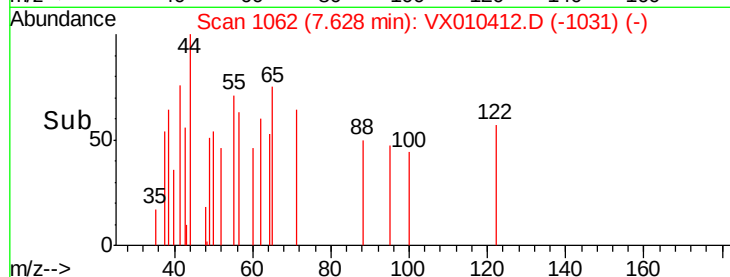
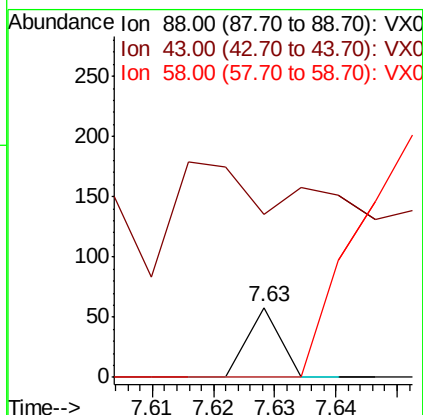
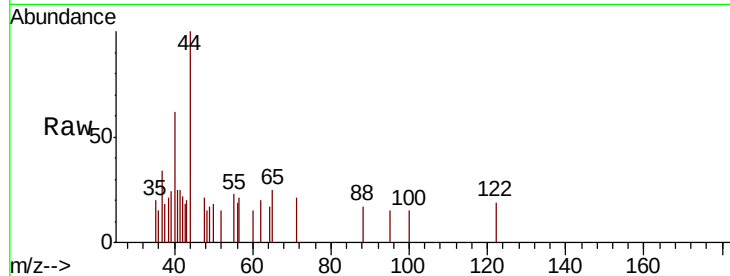




#49
1,4-Dioxane
Concen: 0.252 ug/l
RT: 7.63 min Scan# 1062
Delta R.T. -0.11 min
Lab File: VX010412.D
Acq: 24 Jun 2019 15:27

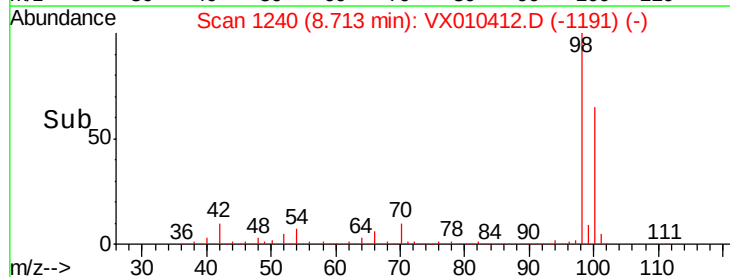
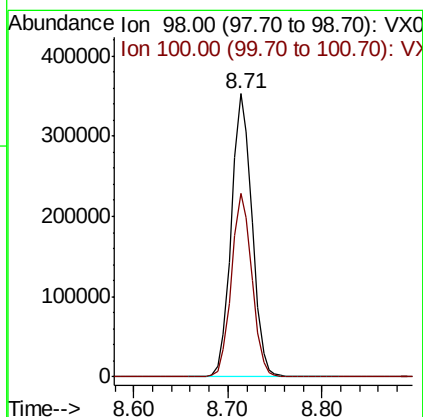
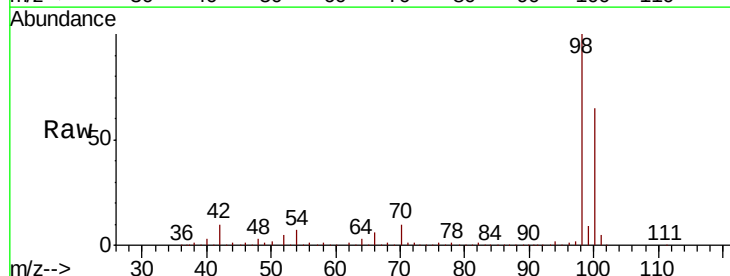
Instrument :
MSVOA_X
ClientSampled :
BAT-B09

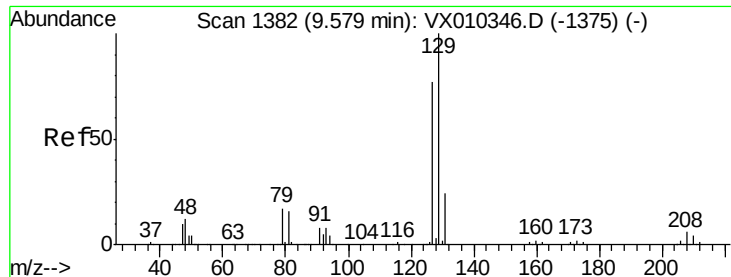
Tot Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 1257.1 20.2 30.2#
58 0.0 49.5 74.3#



#50
Toluene-d8
Concen: 50.084 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010412.D
Acq: 24 Jun 2019 15:27

Tgt Ion: 98 Resp: 539066
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4





#60

Dibromochloromethane

Concen: 0.414 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampled :

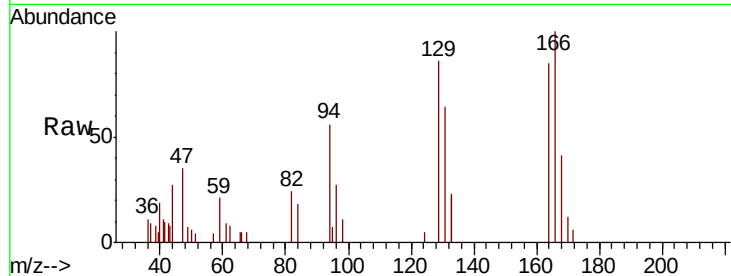
BAT-B09

Tot Ion:129 Resp: 1432

Ion Ratio Lower Upper

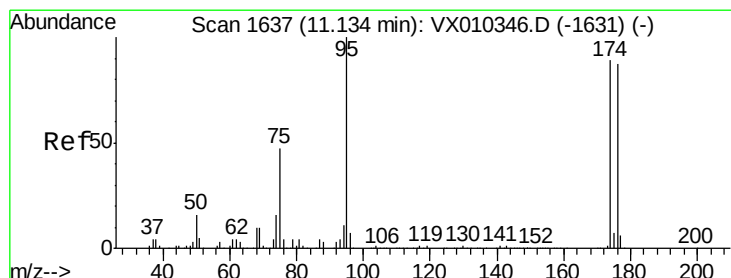
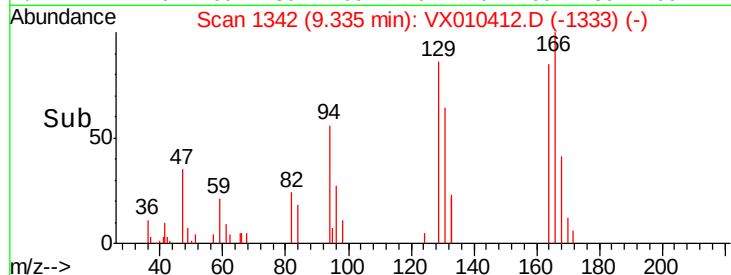
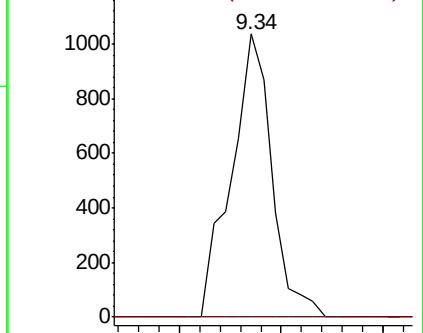
129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

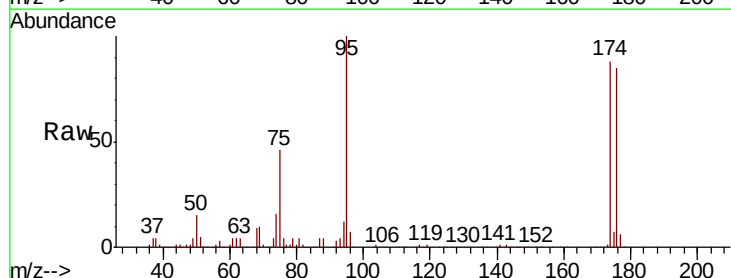
Tgt Ion: 95 Resp: 180967

Ion Ratio Lower Upper

95 100

174 93.7 0.0 187.6

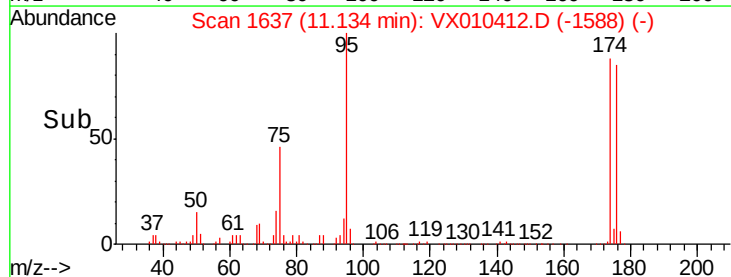
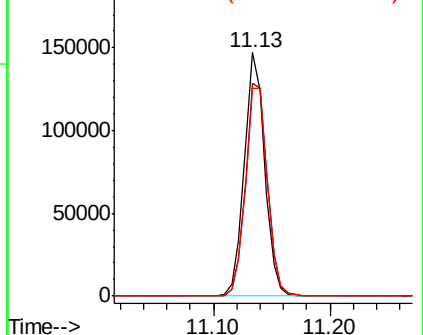
176 92.2 0.0 184.0

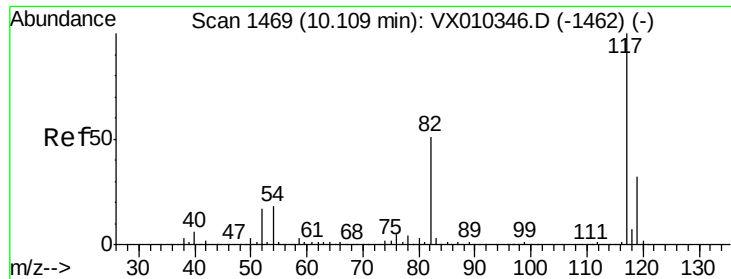


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

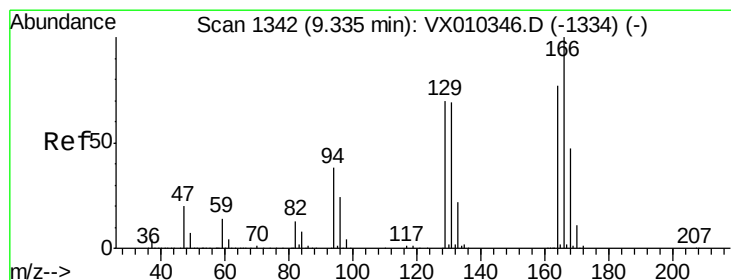
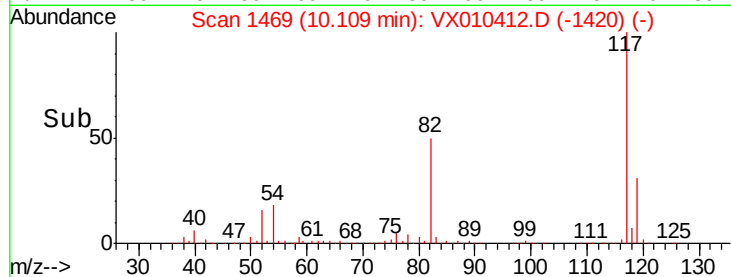
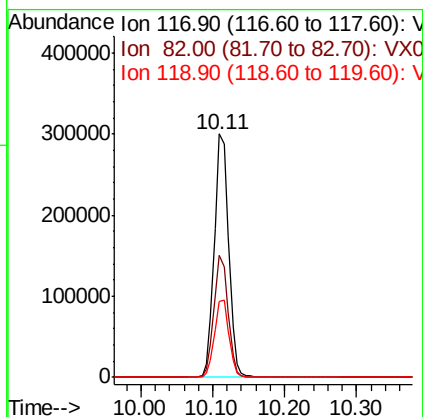
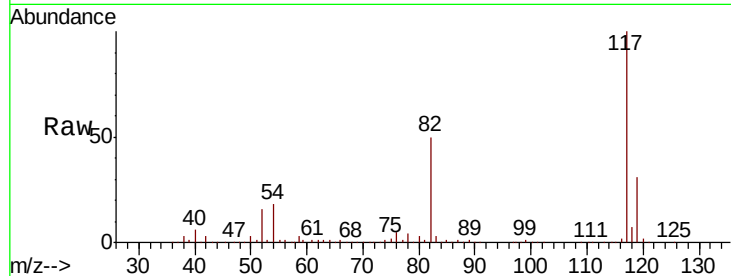




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010412.D
Acq: 24 Jun 2019 15:27

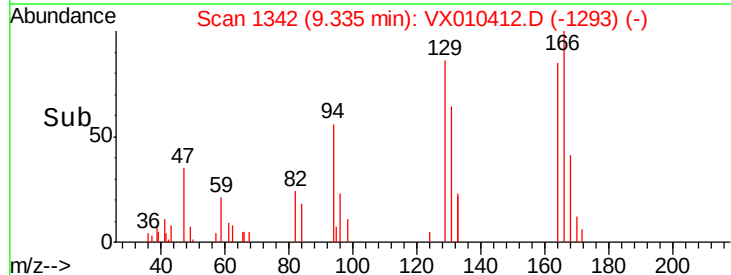
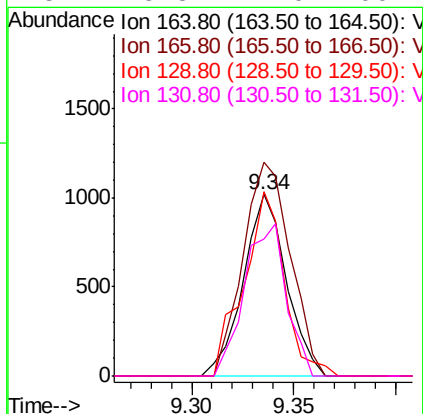
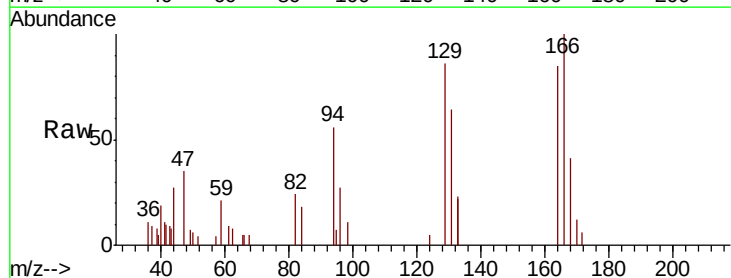
Instrument :
MSVOA_X
ClientSampled :
BAT-B09

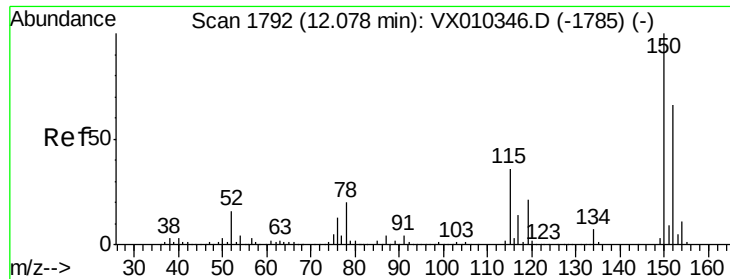
Tot Ion:117 Resp: 414165
Ion Ratio Lower Upper
117 100
82 50.3 41.2 61.8
119 31.3 25.5 38.3



#64
Tetrachloroethene
Concen: 0.448 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX010412.D
Acq: 24 Jun 2019 15:27

Tgt Ion:164 Resp: 1500
Ion Ratio Lower Upper
164 100
166 117.6 103.6 155.4
129 101.7 73.0 109.4
131 75.8 71.0 106.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampleId :

BAT-B09

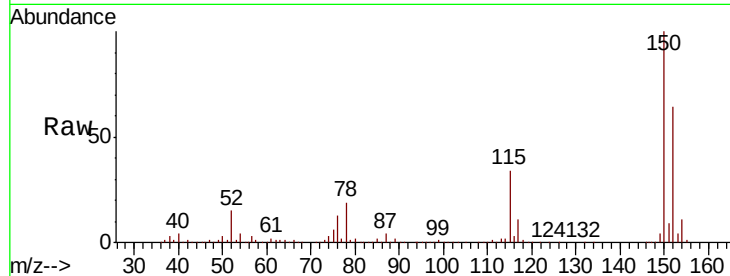
Tot Ion:152 Resp: 188946

Ion Ratio Lower Upper

152 100

115 54.0 38.6 115.7

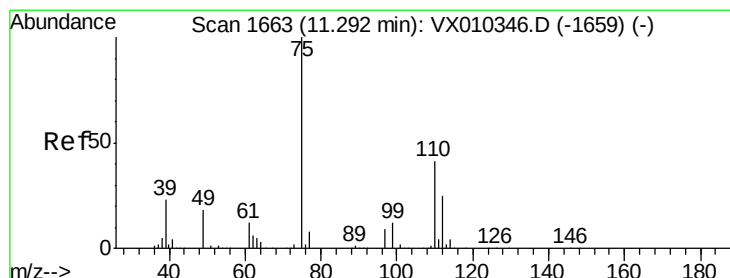
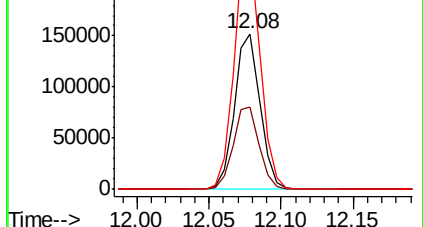
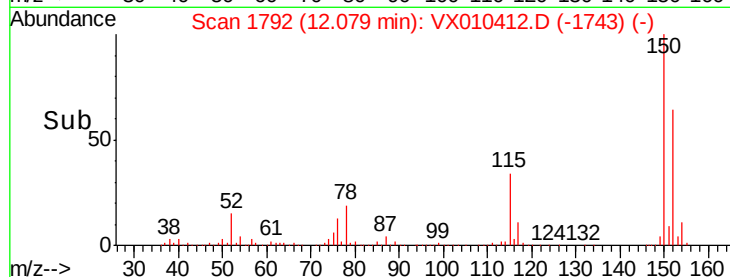
150 156.8 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.796 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010412.D

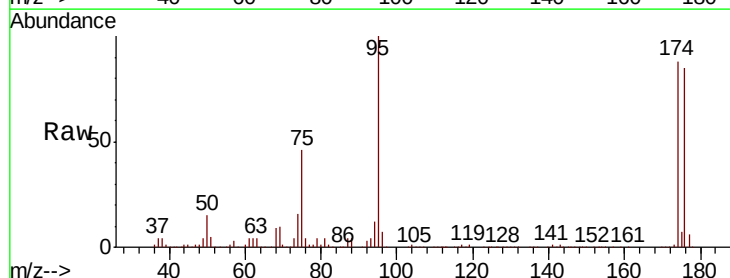
Acq: 24 Jun 2019 15:27

Tgt Ion: 75 Resp: 85374

Ion Ratio Lower Upper

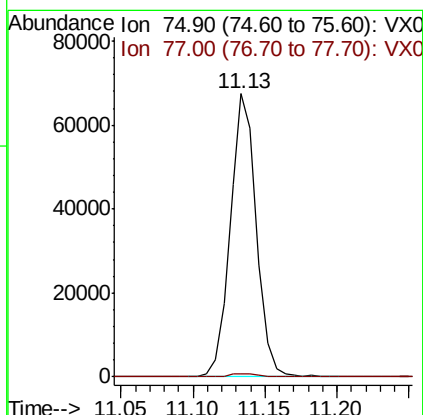
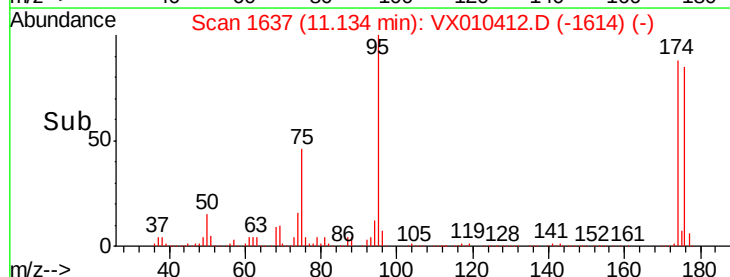
75 100

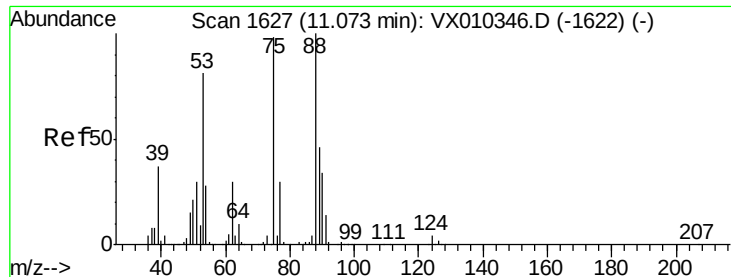
77 1.3 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.846 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010412.D

Acq: 24 Jun 2019 15:27

Instrument :

MSVOA_X

ClientSampleId :

BAT-B09

Tot Ion: 75 Resp: 85374

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.0 37.8 56.6#

