

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032219\
 Data File : VX008339.D
 Acq On : 22 Mar 2019 15:24
 Operator : JC/SP
 Sample : K1964-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Quant Time: Mar 23 01:33:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 15:33:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	29666	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	154842	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	132049	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	63389	31.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.23%
60) 4-Bromofluorobenzene	11.13	95	61738	28.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.73%
63) Toluene-d8	8.71	98	183590	30.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.87%

Target Compounds

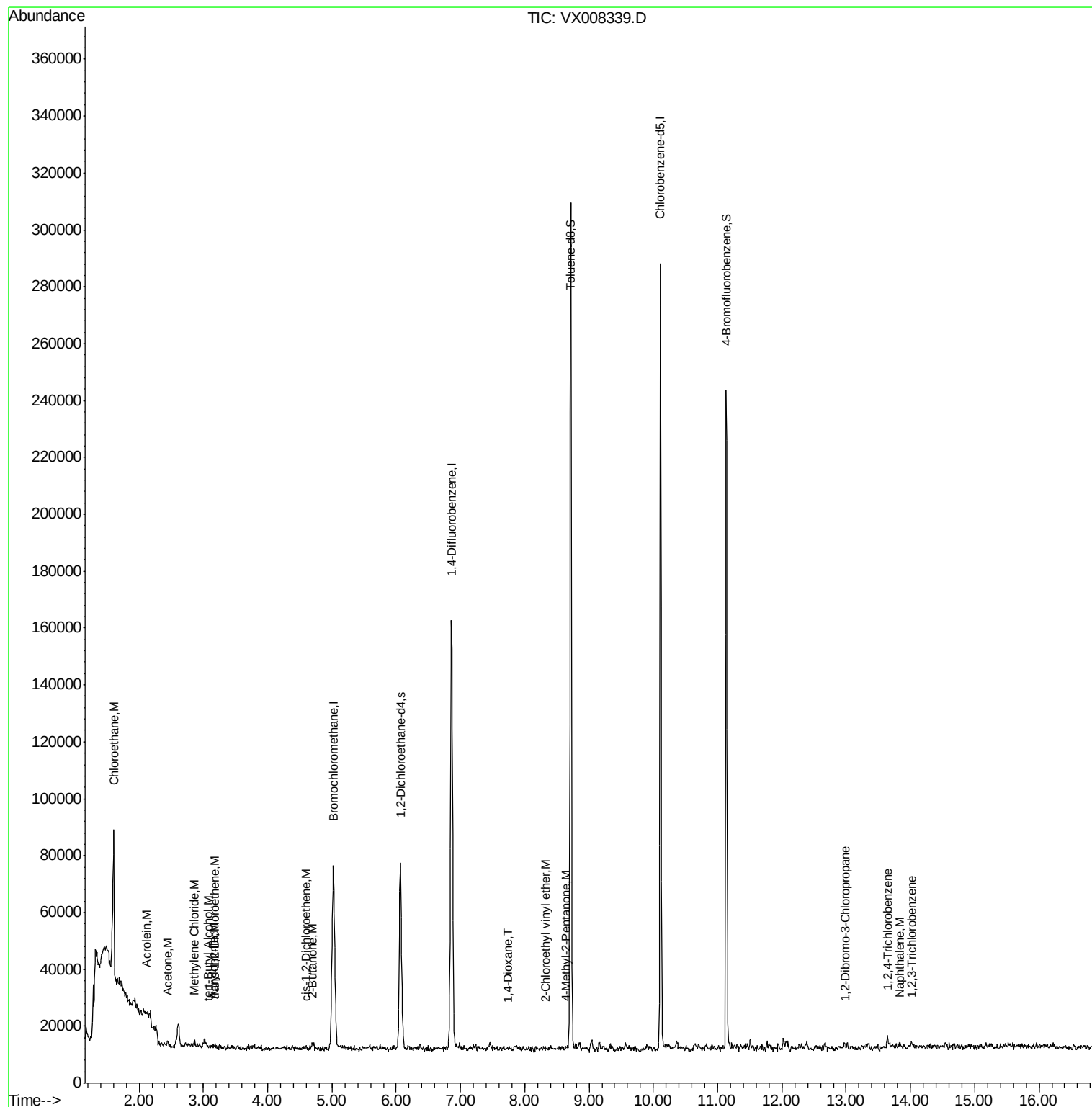
					Ovalue
6) Chloroethane	1.60	64	24122	18.504 ug/l #	54
13) Acrolein	2.12	56	129	0.473 ug/l	87
14) Acrylonitrile	3.16	53	239	0.277 ug/l	82
15) Acetone	2.45	58	955	2.821 ug/l #	57
18) Methylene Chloride	2.86	84	790	0.460 ug/l #	79
19) trans-1,2-Dichloroethene	3.17	96	345	0.204 ug/l #	30
22) cis-1,2-Dichloroethene	4.60	96	481	0.246 ug/l #	21
23) tert-Butyl Alcohol	3.07	59	283	0.808 ug/l #	76
30) 2-Butanone	4.70	43	381	0.301 ug/l #	78
45) 1,4-Dioxane	7.74	88	174	3.931 ug/l #	80
55) 2-Chloroethyl vinyl ether	8.32	63	293	0.227 ug/l #	88
58) 4-Methyl-2-Pentanone	8.63	43	481	0.216 ug/l #	69
88) 1,2-Dibromo-3-Chloropropan	13.00	75	128	0.215 ug/l #	23
89) 1,2,4-Trichlorobenzene	13.65	180	561	0.220 ug/l #	72
91) Naphthalene	13.83	128	1601	0.209 ug/l #	91
92) 1,2,3-Trichlorobenzene	14.02	180	623	0.241 ug/l	92

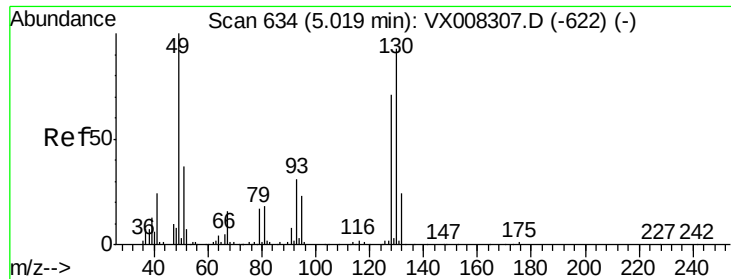
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032219\
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BFB

Quant Time: Mar 23 01:33:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Mar 22 15:33:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

BFB

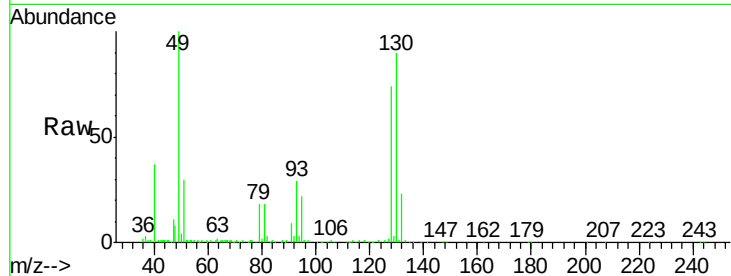
Tot Ion:128 Resp: 29666

Ion Ratio Lower Upper

128 100

49 139.1 0.0 350.8

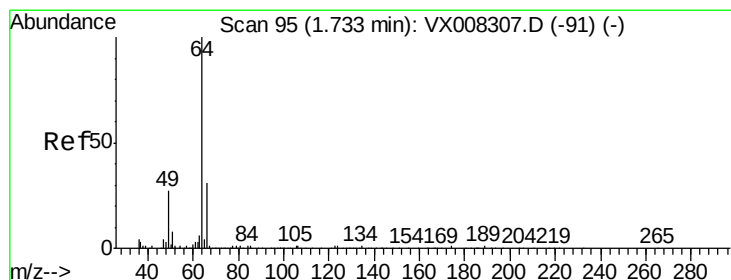
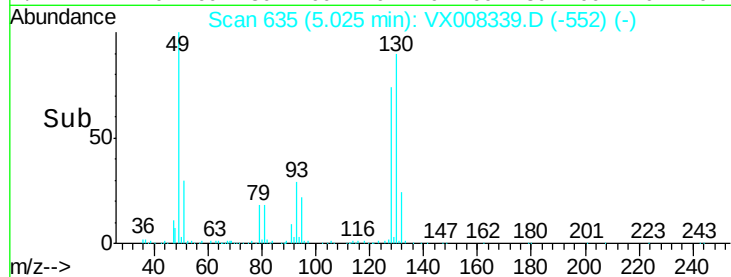
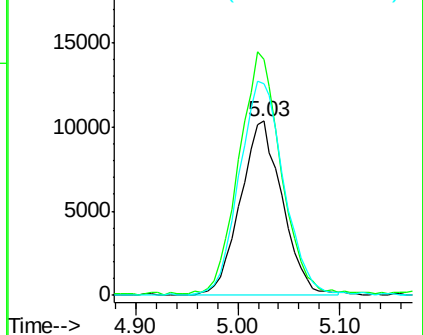
130 130.3 0.0 325.8



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



#6

Chloroethane

Concen: 18.504 ug/l

RT: 1.60 min Scan# 74

Delta R.T. -0.13 min

Lab File: VX008339.D

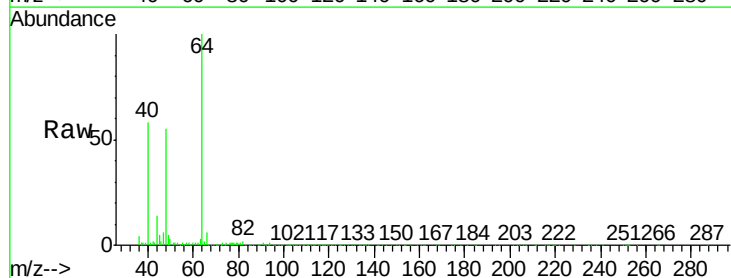
Acq: 22 Mar 2019 15:24

Tgt Ion: 64 Resp: 24122

Ion Ratio Lower Upper

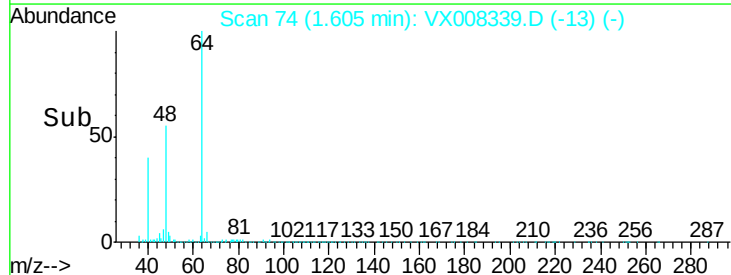
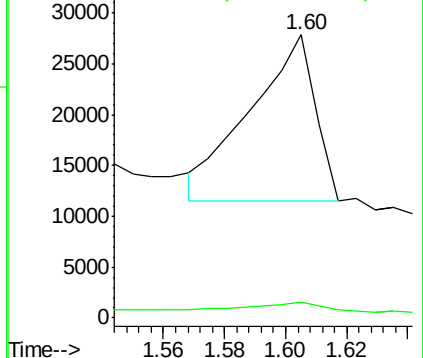
64 100

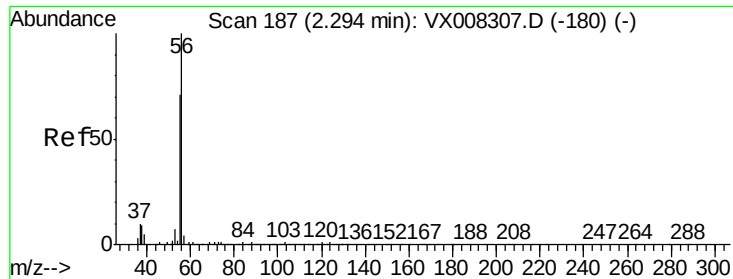
66 4.8 23.9 35.9#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0

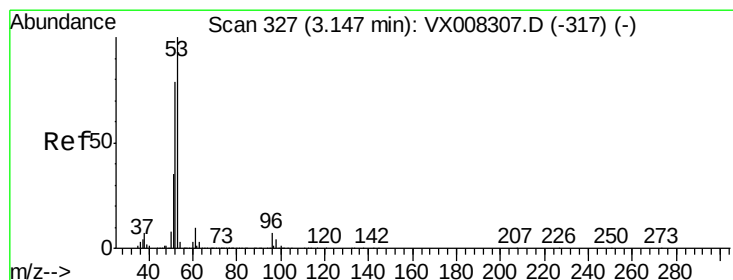
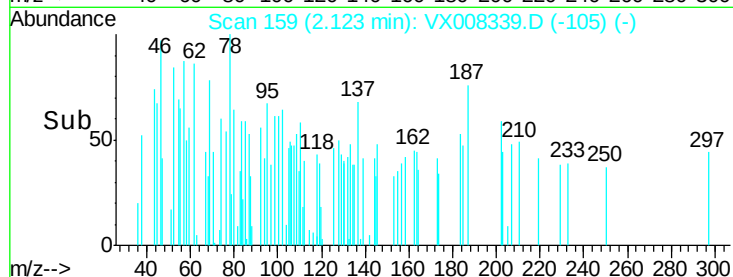
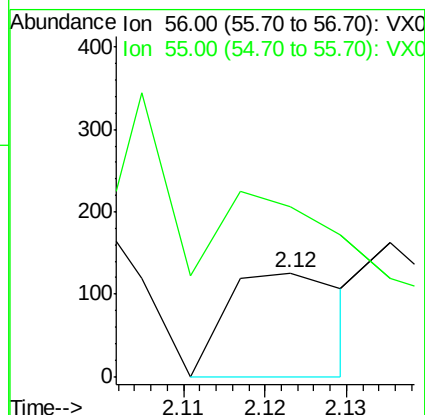
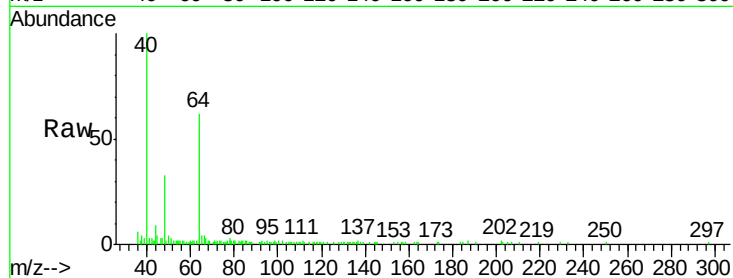




#13
Acrolein
Concen: 0.473 ug/l
RT: 2.12 min Scan# 159
Delta R.T. -0.17 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

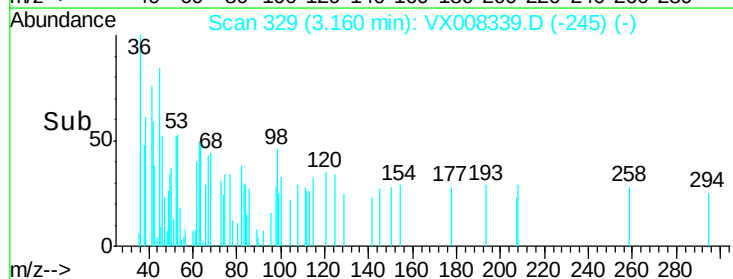
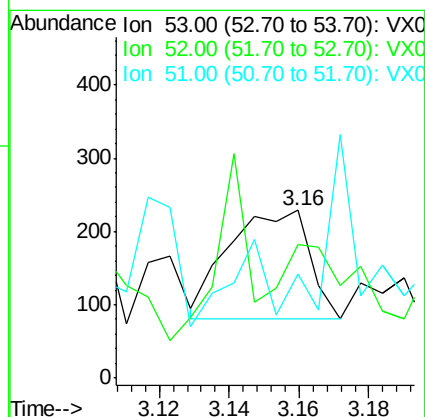
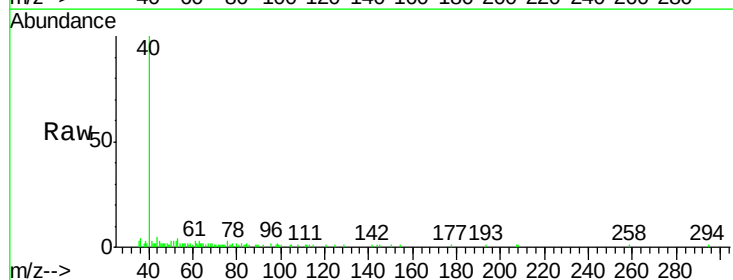
Instrument :
MSVOA_X
ClientSampled :
BFB

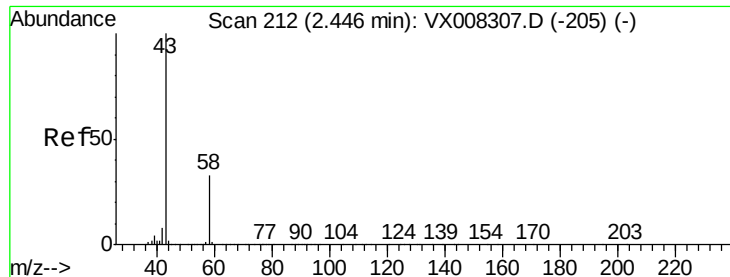
Tot Ion: 56 Resp: 129
Ion Ratio Lower Upper
56 100
55 84.5 58.6 87.8



#14
Acrylonitrile
Concen: 0.277 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.01 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

Tgt Ion: 53 Resp: 239
Ion Ratio Lower Upper
53 100
52 101.3 41.3 124.1
51 41.8 17.5 52.6





#15

Acetone

Concen: 2.821 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

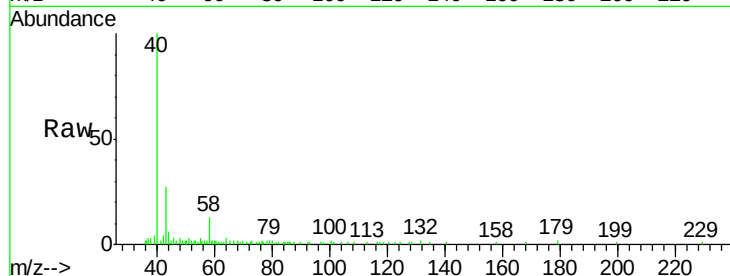
BFB

Tot Ion: 58 Resp: 955

Ion Ratio Lower Upper

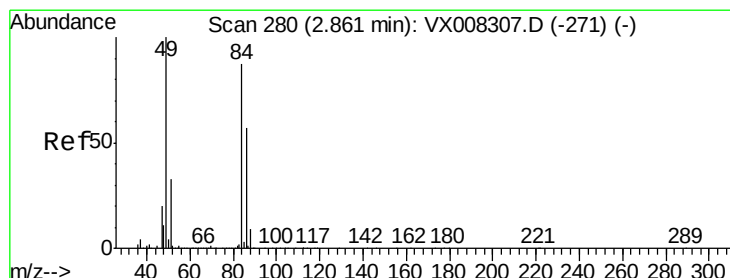
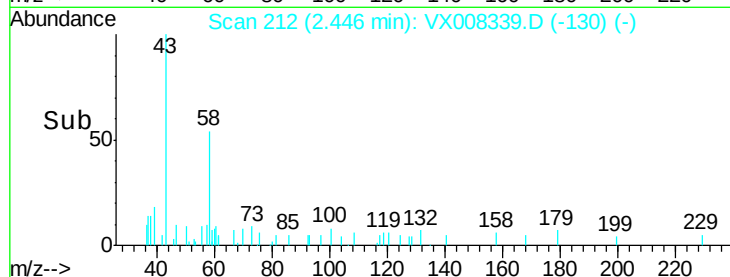
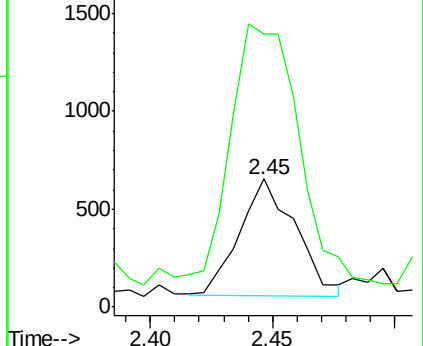
58 100

43 226.3 249.8 374.6#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.460 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

Tgt Ion: 84 Resp: 790

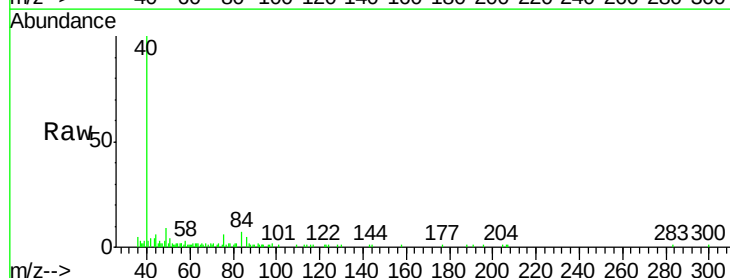
Ion Ratio Lower Upper

84 100

49 97.2 96.1 144.1

51 24.7 29.1 43.7#

86 41.2 47.3 70.9#

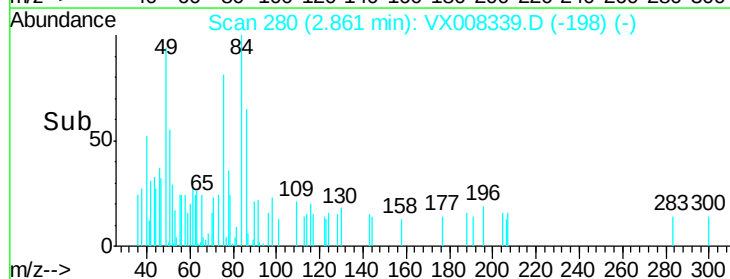
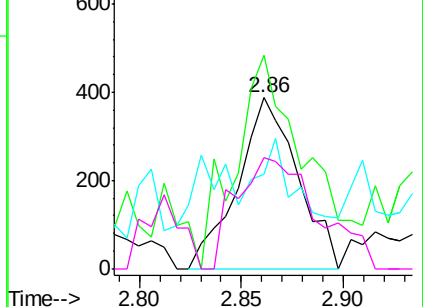


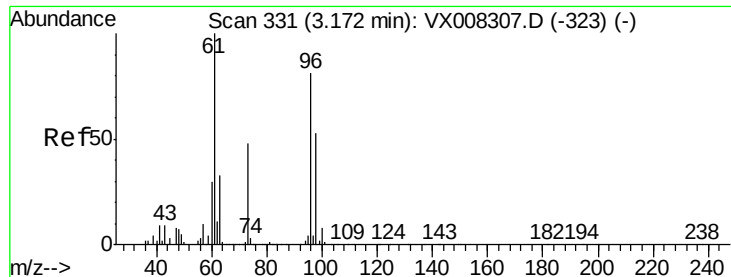
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#19

trans-1,2-Dichloroethene

Concen: 0.204 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.00 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

Instrument :

MSVOA_X

ClientSampled :

BFB

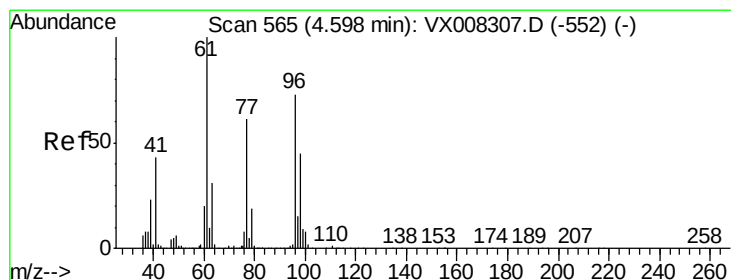
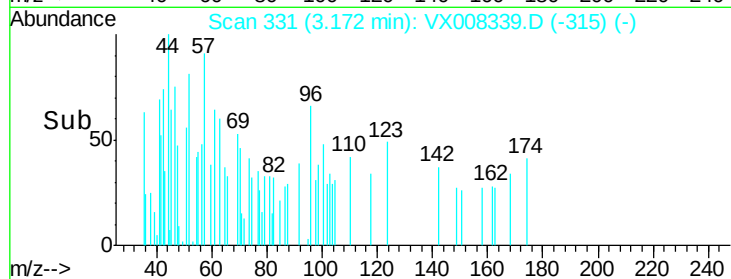
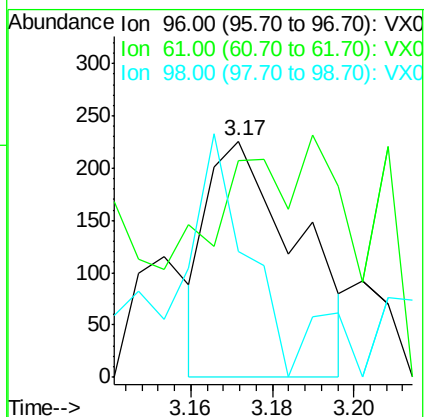
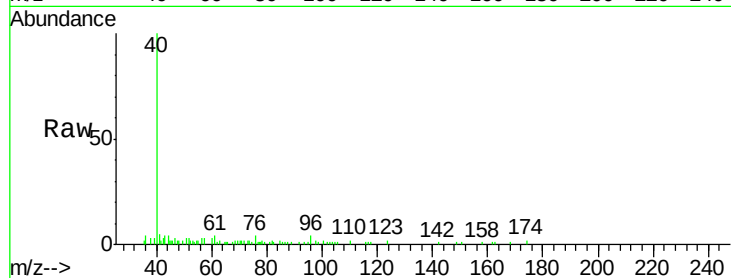
Tot Ion: 96 Resp: 345

Ion Ratio Lower Upper

96 100

61 16.4 109.9 164.9#

98 61.0 50.4 75.6



#22

cis-1,2-Dichloroethene

Concen: 0.246 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

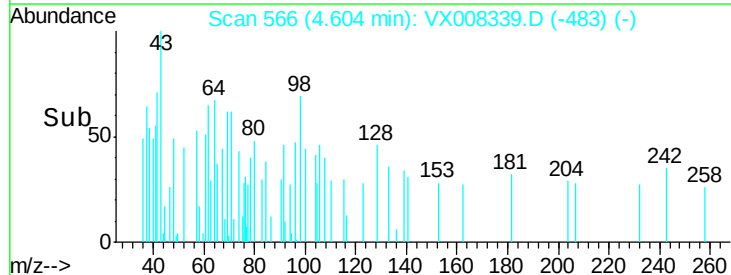
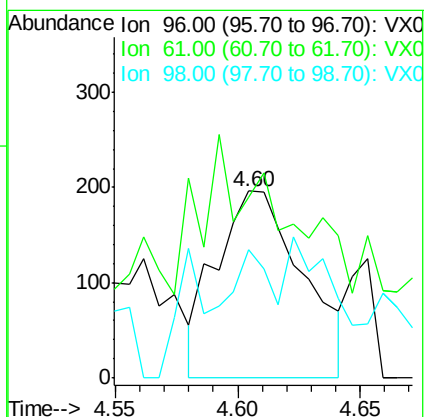
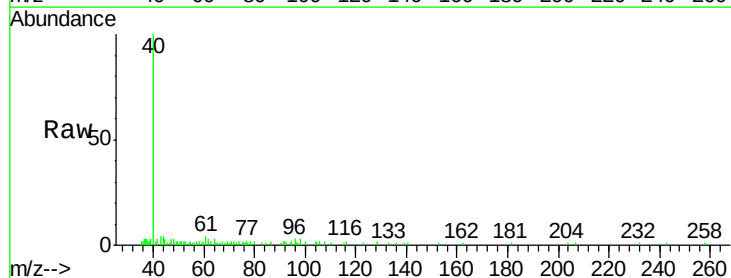
Tgt Ion: 96 Resp: 481

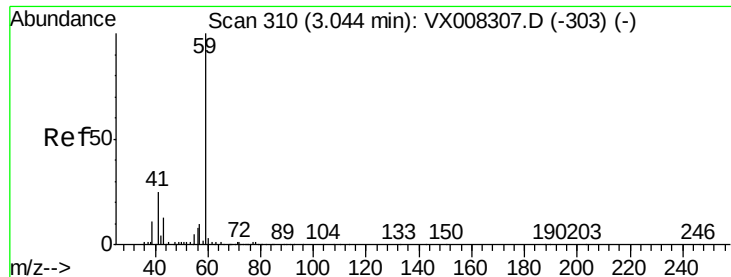
Ion Ratio Lower Upper

96 100

61 11.9 103.5 155.3#

98 37.4 52.1 78.1#

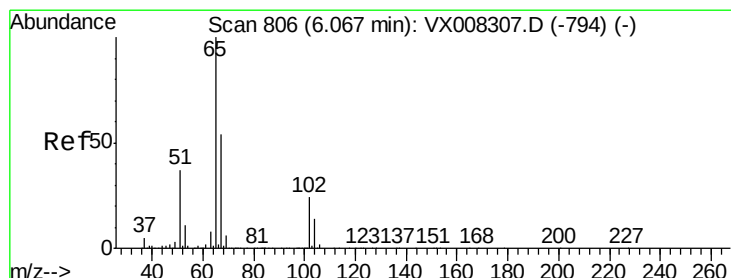
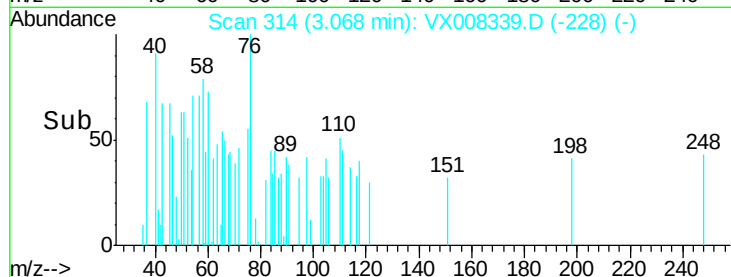
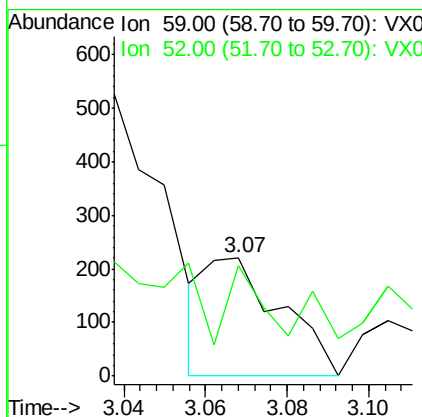
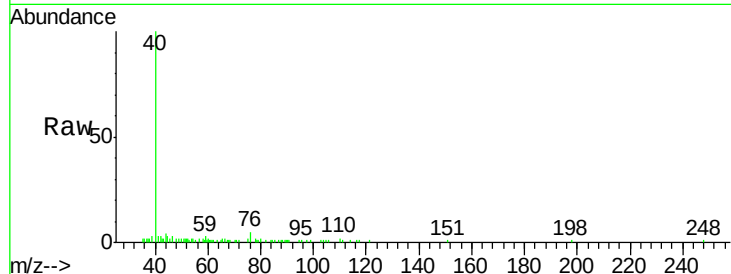




#23
 tert-Butyl Alcohol
 Concen: 0.808 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. 0.02 min
 Lab File: VX008339.D
 Acq: 22 Mar 2019 15:24

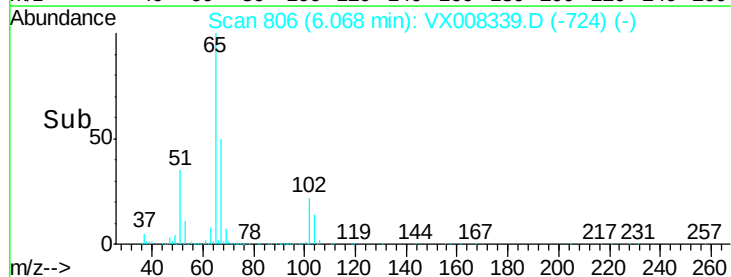
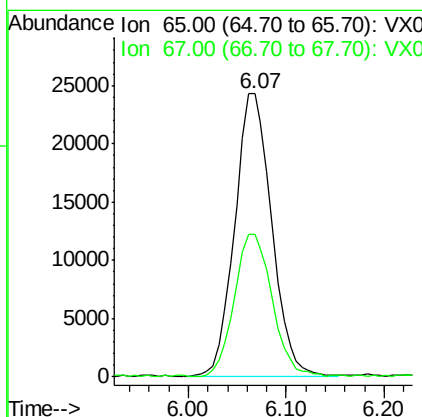
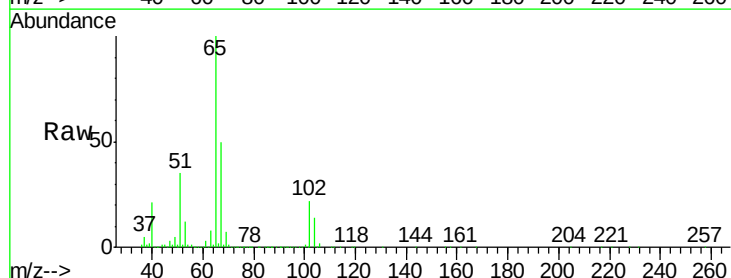
Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

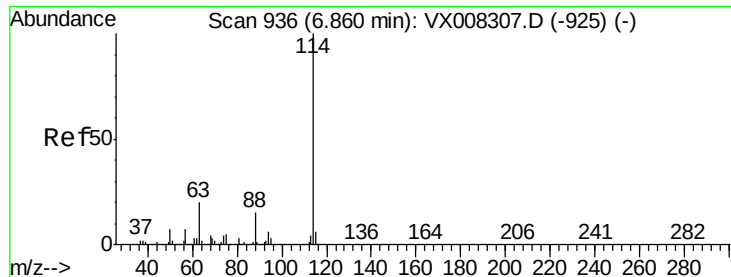
Tot Ion: 59 Resp: 283
 Ion Ratio Lower Upper
 59 100
 52 30.7 0.2 0.2#



#27
 1,2-Dichloroethane-d4
 Concen: 31.269 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008339.D
 Acq: 22 Mar 2019 15:24

Tgt Ion: 65 Resp: 63389
 Ion Ratio Lower Upper
 65 100
 67 51.3 42.9 64.3

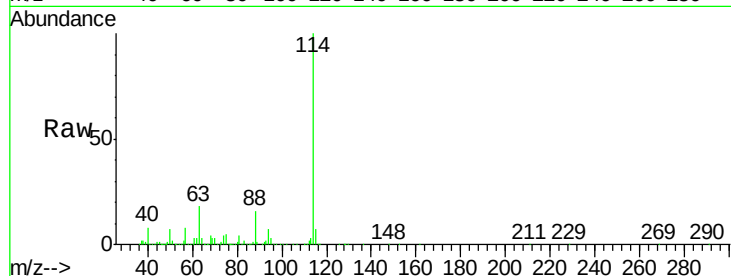




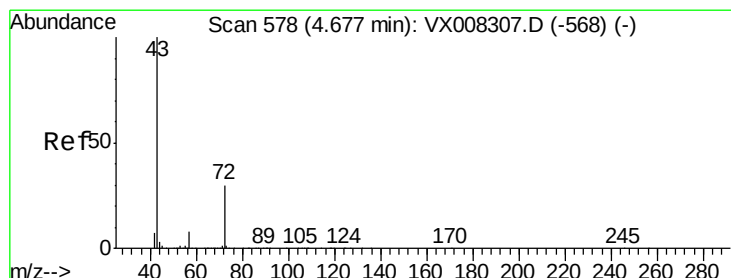
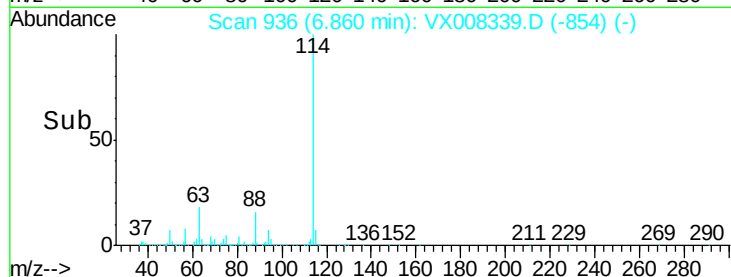
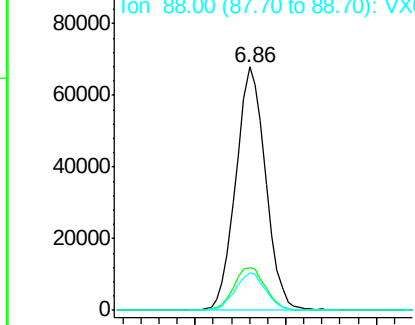
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008339.D
 Acq: 22 Mar 2019 15:24

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Tot Ion:114 Resp: 154842
 Ion Ratio Lower Upper
 114 100
 63 18.8 14.2 21.4
 88 15.7 11.9 17.9

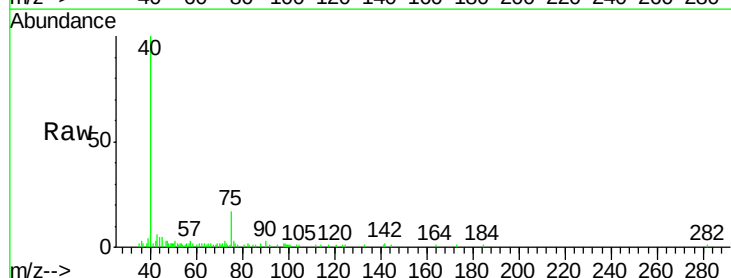


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

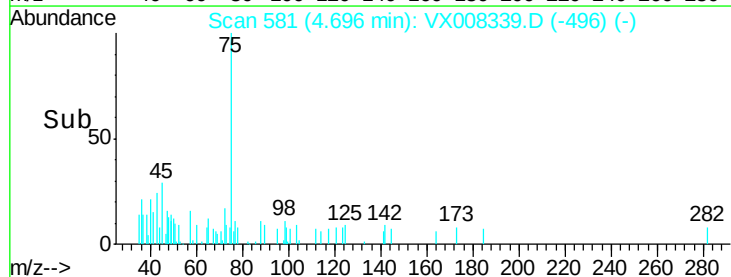
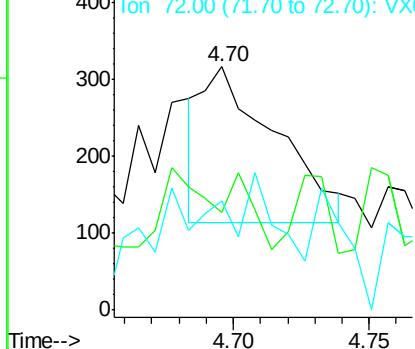


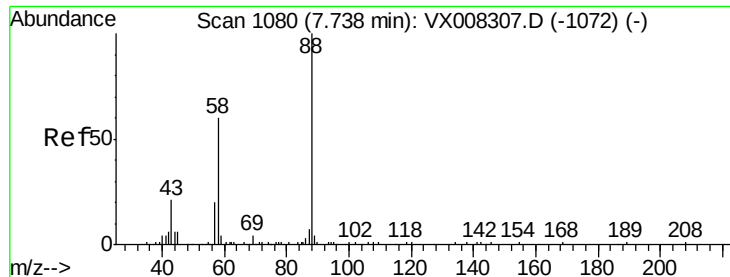
#30
 2-Butanone
 Concen: 0.301 ug/l
 RT: 4.70 min Scan# 581
 Delta R.T. 0.02 min
 Lab File: VX008339.D
 Acq: 22 Mar 2019 15:24

Tgt Ion: 43 Resp: 381
 Ion Ratio Lower Upper
 43 100
 57 24.4 7.0 10.6#
 72 34.6 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0





#45

1,4-Dioxane

Concen: 3.931 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

Instrument :

MSVOA_X

ClientSampled :

BFB

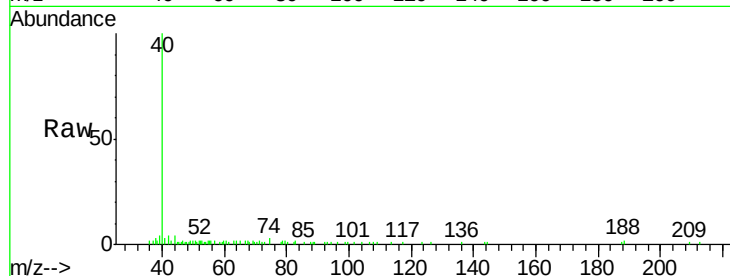
Tot Ion: 88 Resp: 174

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

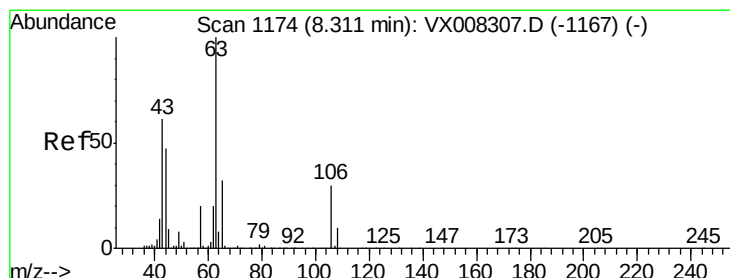
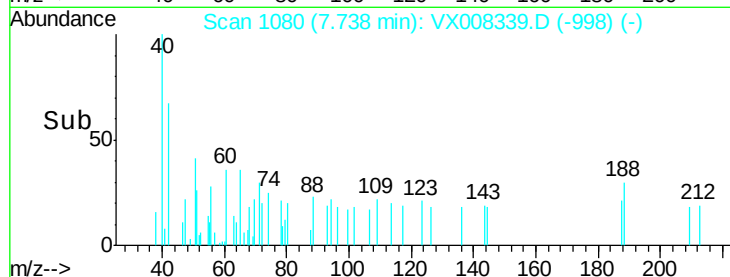
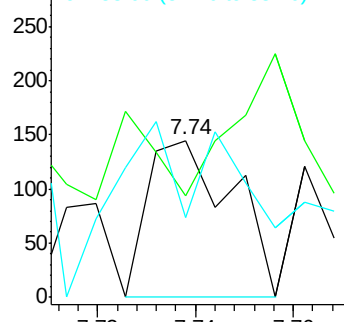
58 67.8 51.6 77.4



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



#55

2-Chloroethyl vinyl ether

Concen: 0.227 ug/l

RT: 8.32 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

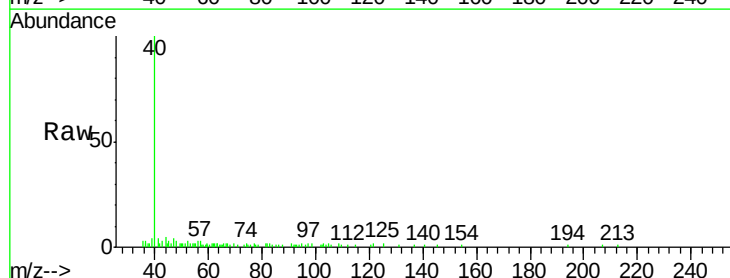
Tgt Ion: 63 Resp: 293

Ion Ratio Lower Upper

63 100

65 27.0 25.7 38.5

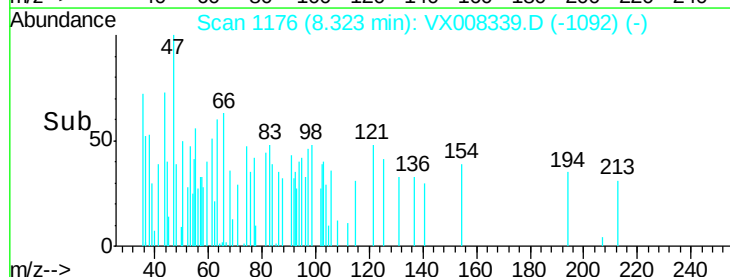
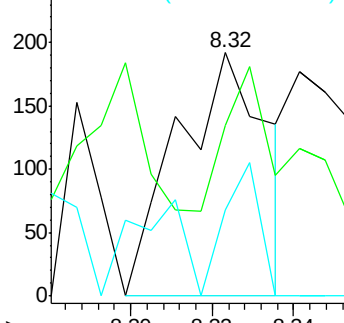
106 21.5 23.7 35.5#

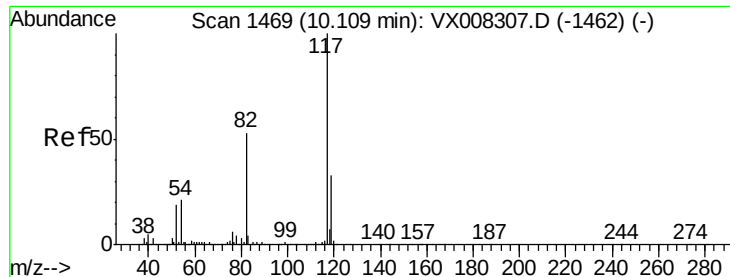


Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 106.00 (105.70 to 106.70): V

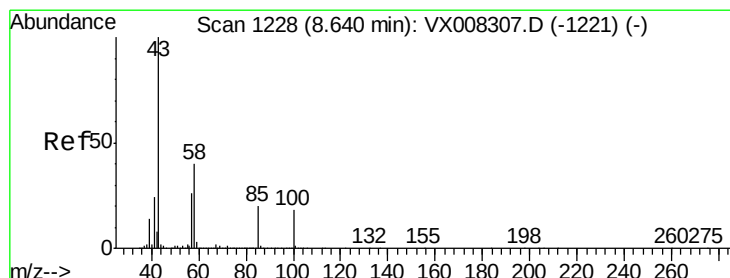
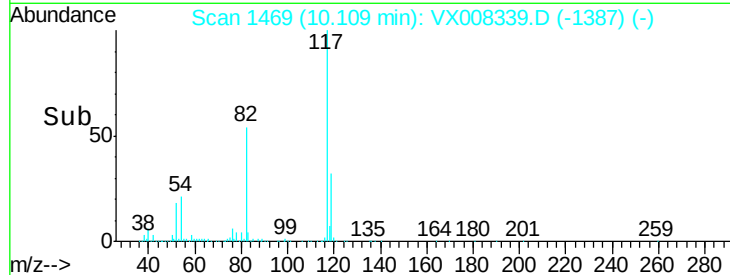
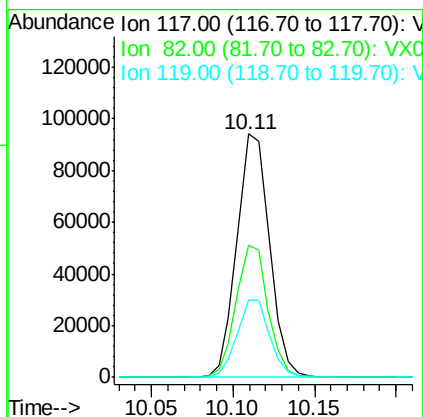
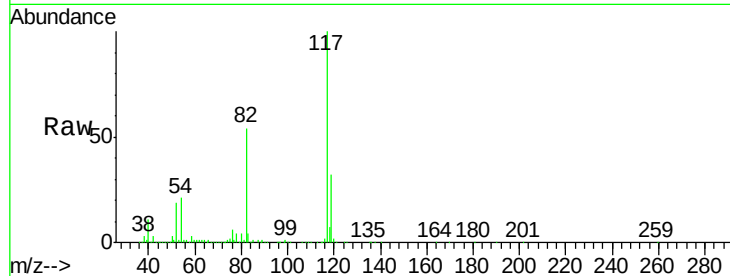




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

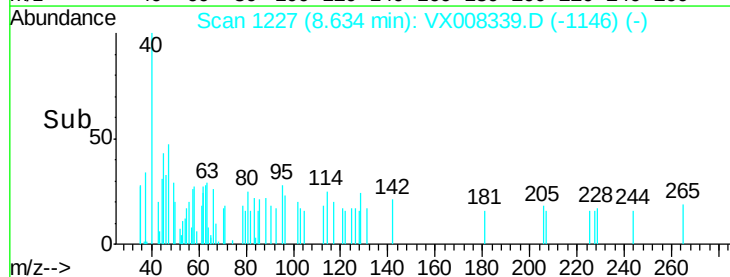
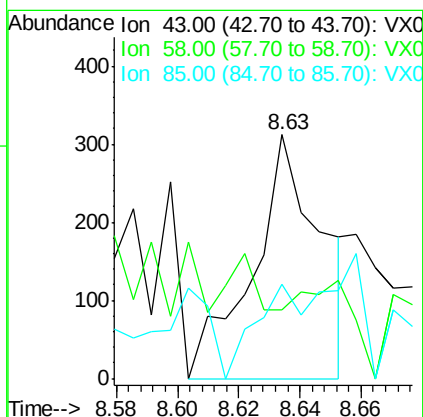
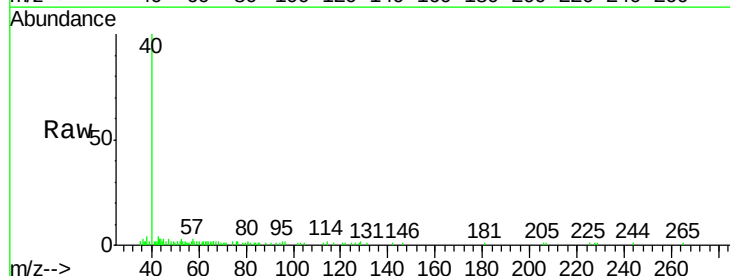
Instrument :
MSVOA_X
ClientSampled :
BFB

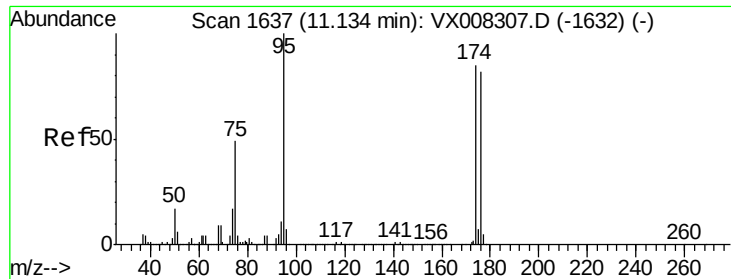
Tot Ion:117 Resp: 132049
Ion Ratio Lower Upper
117 100
82 53.5 40.4 60.6
119 31.9 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.216 ug/l
RT: 8.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

Tgt Ion: 43 Resp: 481
Ion Ratio Lower Upper
43 100
58 15.8 31.4 47.0#
85 26.2 15.0 22.6#

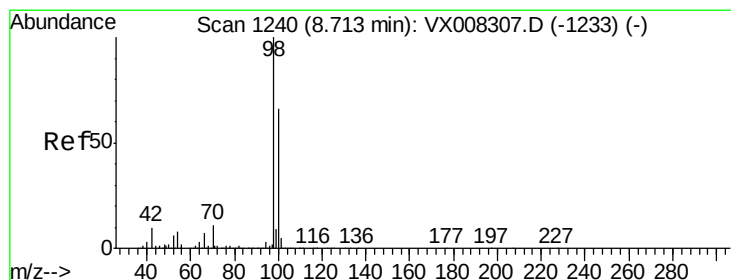
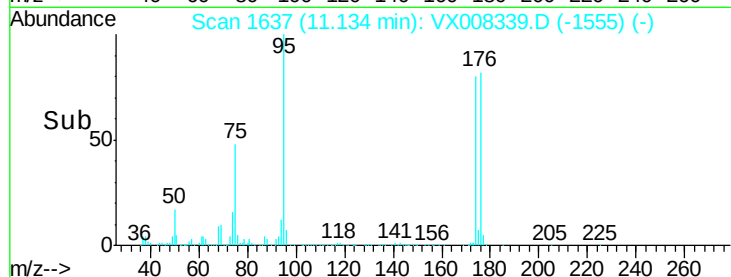
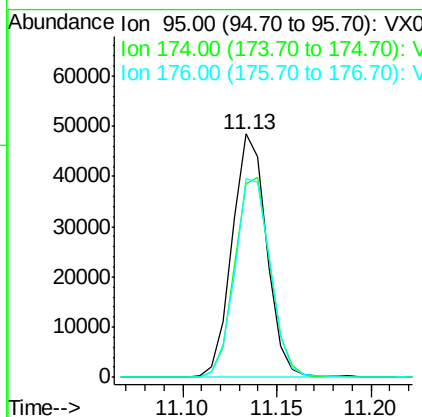
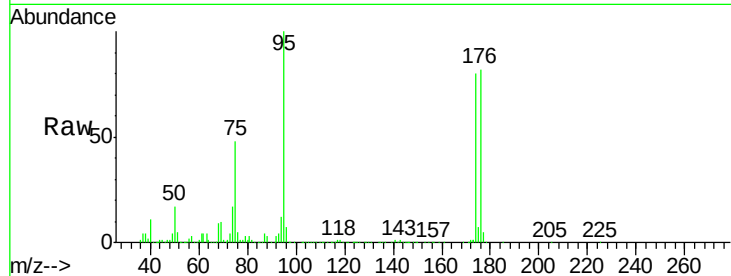




#60
4-Bromofluorobenzene
Concen: 28.723 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

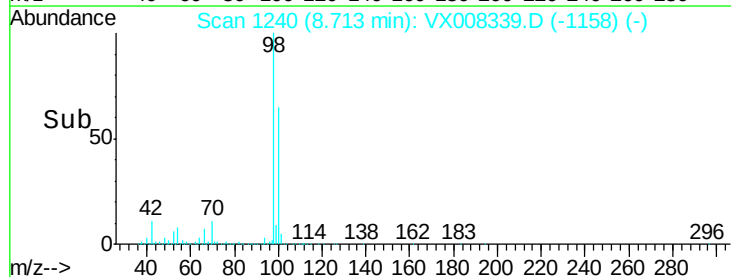
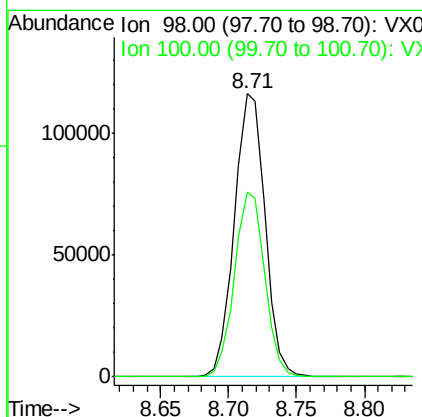
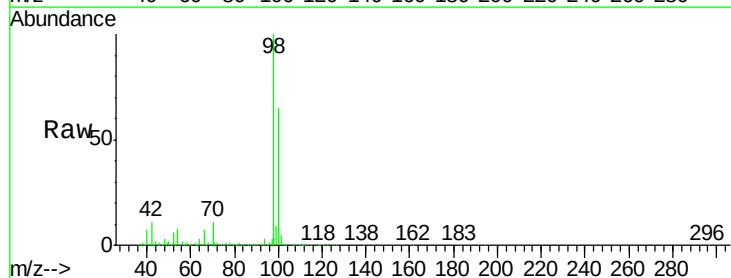
Instrument :
MSVOA_X
ClientSampleId :
BFB

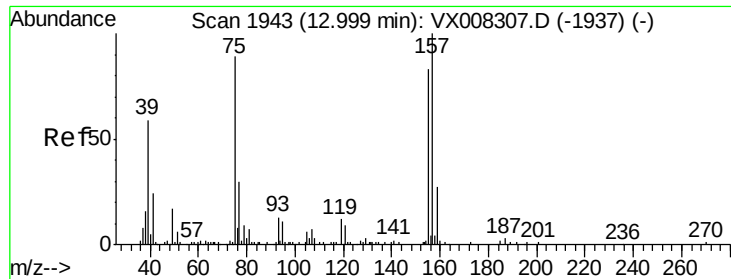
Tot Ion: 95 Resp: 61738
Ion Ratio Lower Upper
95 100
174 84.5 74.9 112.3
176 84.7 70.7 106.1



#63
Toluene-d8
Concen: 30.858 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

Tgt Ion: 98 Resp: 183590
Ion Ratio Lower Upper
98 100
100 64.4 50.9 76.3





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.215 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

Instrument :

MSVOA_X

ClientSampled :

BFB

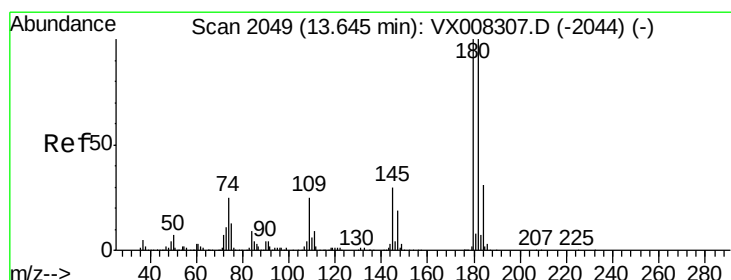
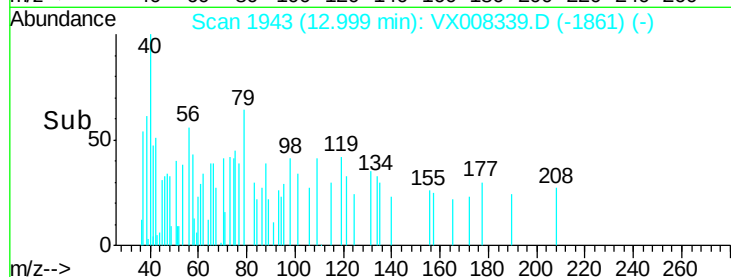
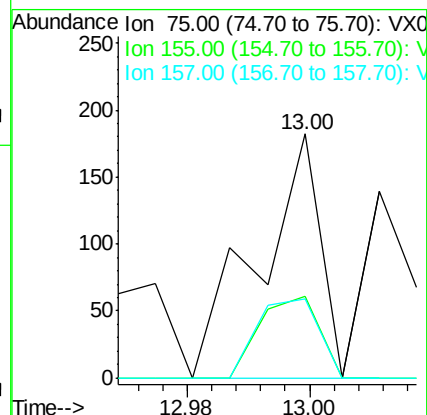
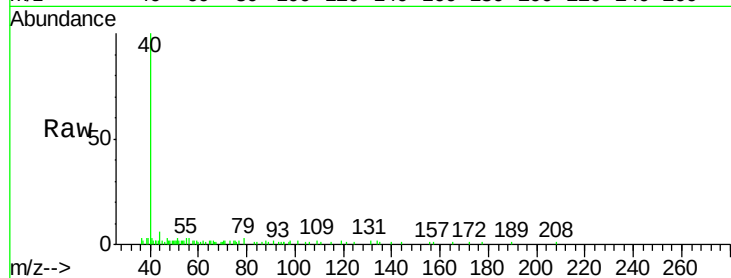
Tot Ion: 75 Resp: 128

Ion Ratio Lower Upper

75 100

155 32.0 81.0 121.6#

157 32.0 103.2 154.8#



#89

1,2,4-Trichlorobenzene

Concen: 0.220 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX008339.D

Acq: 22 Mar 2019 15:24

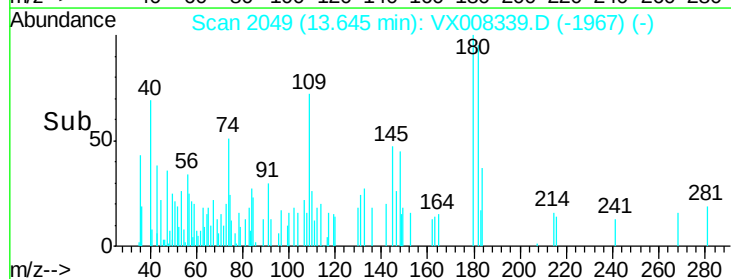
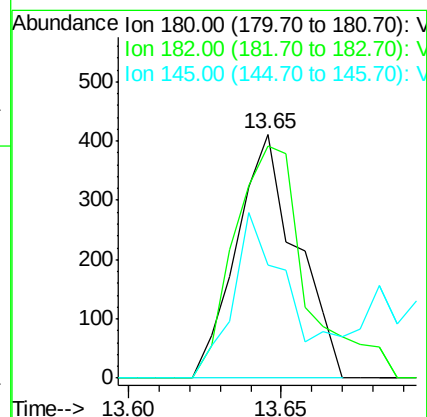
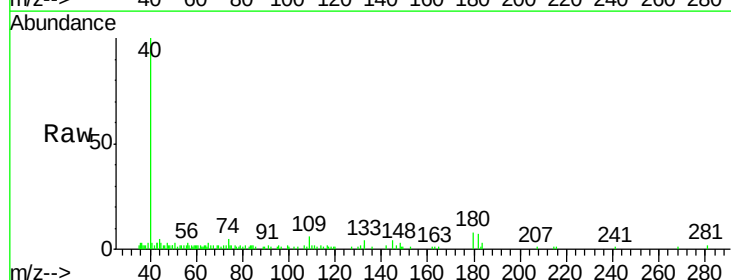
Tgt Ion: 180 Resp: 561

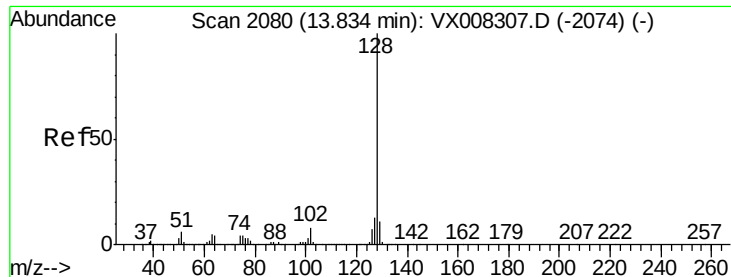
Ion Ratio Lower Upper

180 100

182 114.3 75.6 113.4#

145 56.5 23.0 34.6#

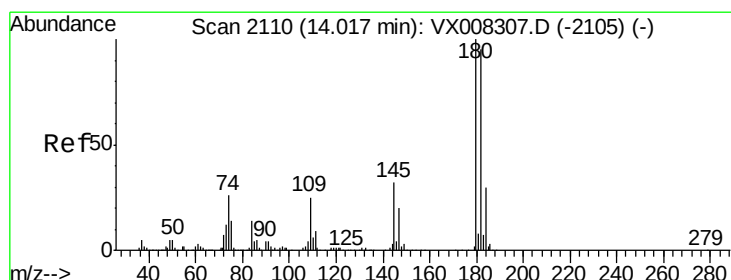
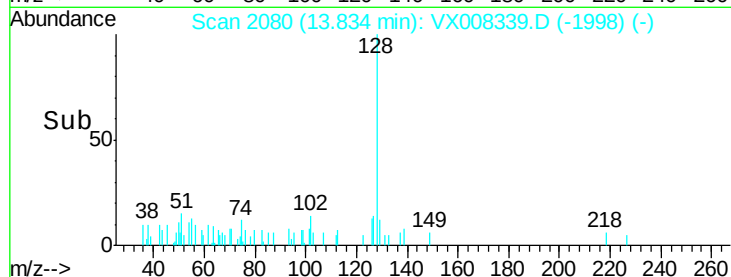
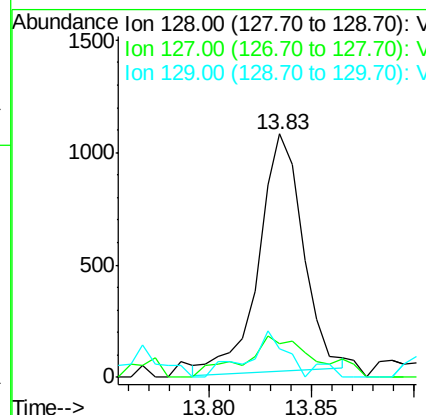
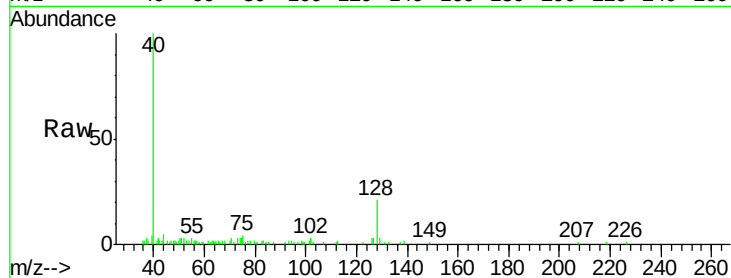




#91
Naphthalene
Concen: 0.209 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

Instrument :
MSVOA_X
ClientSampled :
BFB

Tot Ion	Ratio	Lower	Upper
128	100		
127	18.9	10.5	15.7#
129	12.1	8.9	13.3



#92
1,2,3-Trichlorobenzene
Concen: 0.241 ug/l
RT: 14.02 min Scan# 2111
Delta R.T. 0.01 min
Lab File: VX008339.D
Acq: 22 Mar 2019 15:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.6	0.0	193.0
145	43.8	0.0	63.0

