

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014361.D
 Acq On : 30 Dec 2019 18:06
 Operator : JC/SP
 Sample : K6464-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-2

Quant Time: Dec 31 01:21:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	505132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	783984	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	701797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	309043	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	282764	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
35) Dibromofluoromethane	5.49	113	233697	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.71	98	931141	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	11.13	95	310026	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	

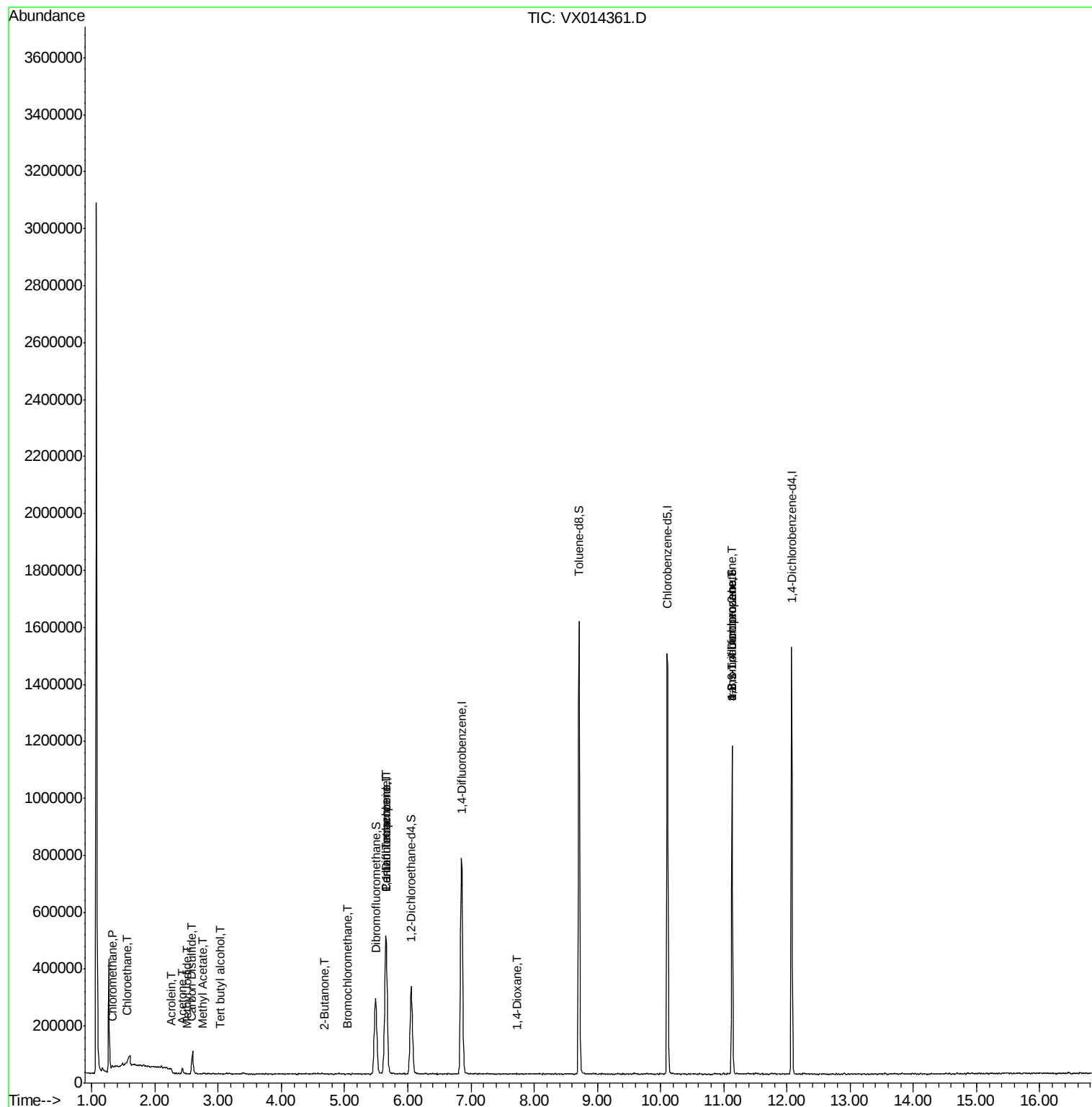
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	5712	0.942	ug/l	94
6) Chloroethane	1.56	64	21772	5.513	ug/l #	50
10) Methyl Iodide	2.52	142	795	2.740	ug/l #	64
11) Tert butyl alcohol	3.02	59	998	0.807	ug/l #	2
13) Acrolein	2.27	56	251	0.354	ug/l #	14
16) Acetone	2.43	43	20400	5.489	ug/l #	89
17) Carbon Disulfide	2.57	76	3846	1.031	ug/l #	81
18) Methyl Acetate	2.76	43	1524	0.207	ug/l #	45
25) 2-Butanone	4.69	43	1214	0.265	ug/l	95
28) Bromochloromethane	5.03	49	298	0.534	ug/l #	37
36) 1,1-Dichloropropene	5.65	75	36651	5.095	ug/l #	50
38) Carbon Tetrachloride	5.65	117	44120	6.733	ug/l #	17
49) 1,4-Dioxane	7.73	88	253	1.931	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	149487	22.281	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	149487	62.888	ug/l #	12

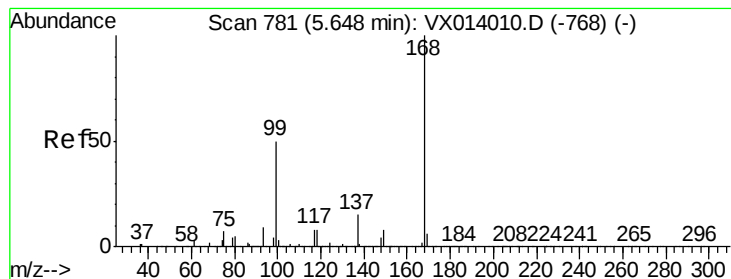
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampleId :

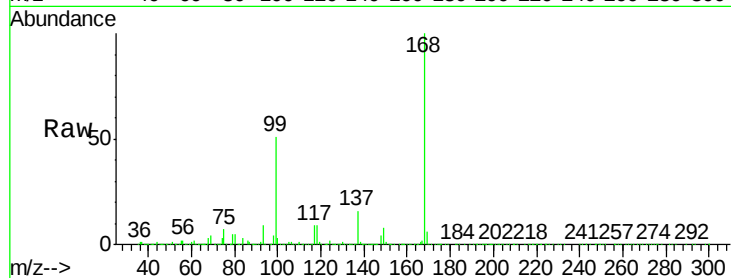
GW-2

Tot Ion:168 Resp: 505132

Ion Ratio Lower Upper

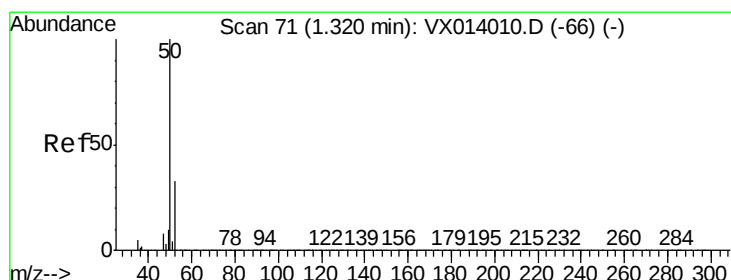
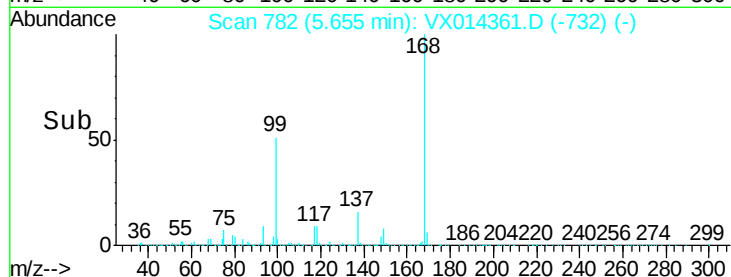
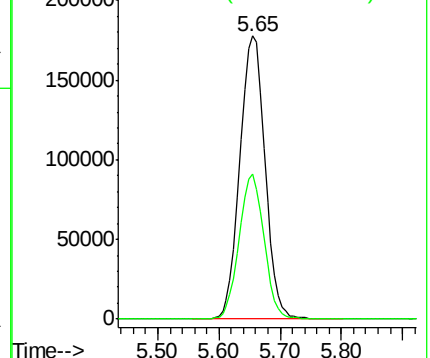
168 100

99 51.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.942 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014361.D

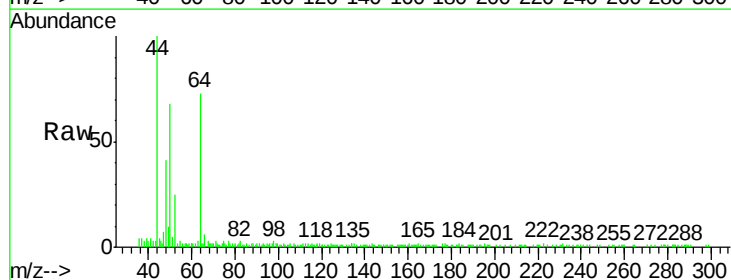
Acq: 30 Dec 2019 18:06

Tgt Ion: 50 Resp: 5712

Ion Ratio Lower Upper

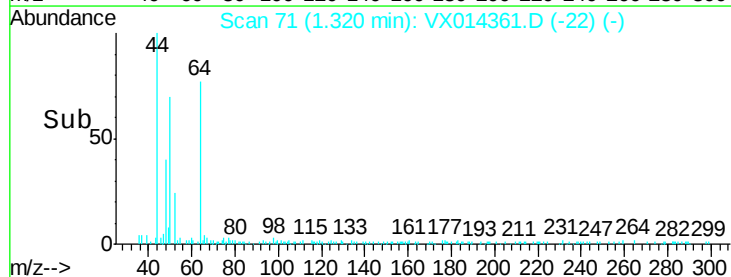
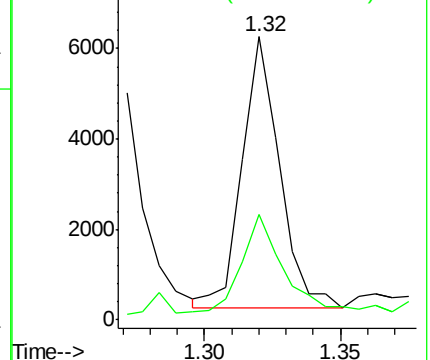
50 100

52 35.9 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 5.513 ug/l

RT: 1.56 min Scan# 110

Delta R.T. -0.15 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampleId :

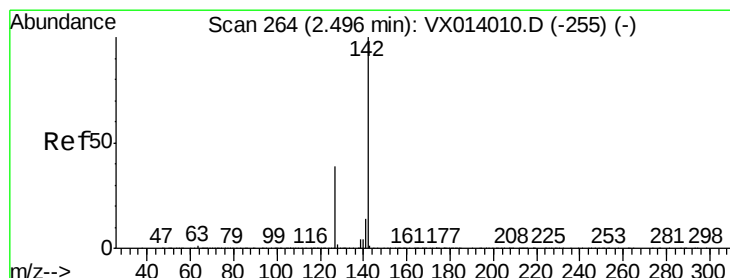
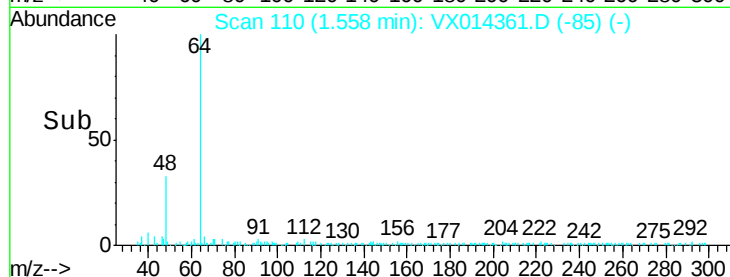
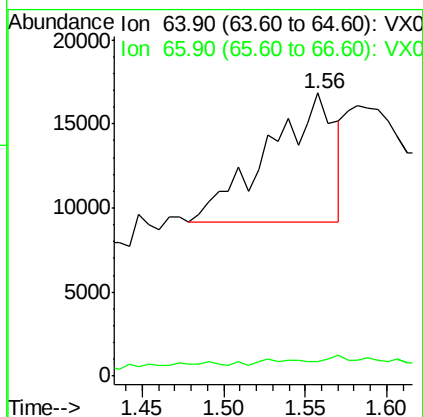
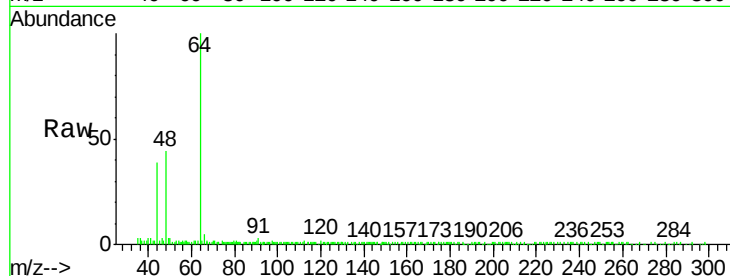
GW-2

Tot Ion: 64 Resp: 21772

Ion Ratio Lower Upper

64 100

66 2.6 23.4 35.2#



#10

Methyl Iodide

Concen: 2.740 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

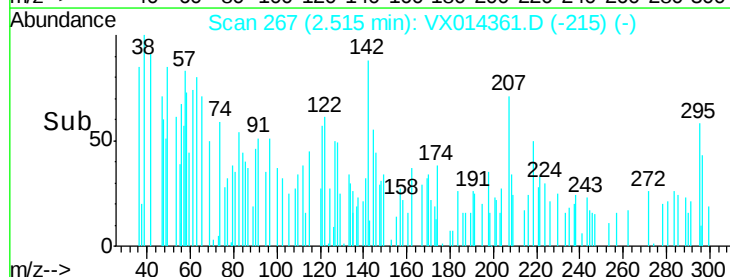
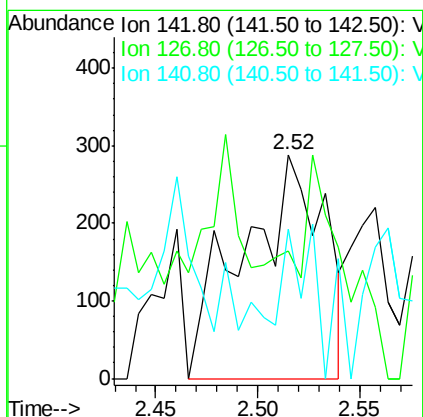
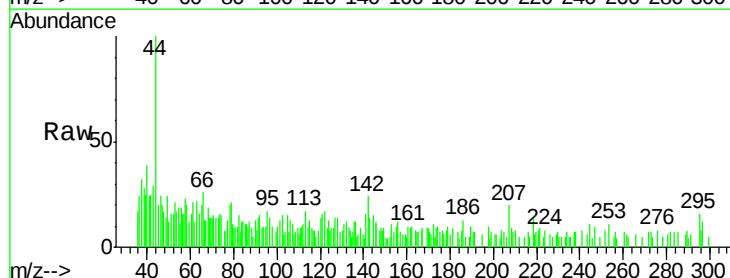
Tgt Ion: 142 Resp: 795

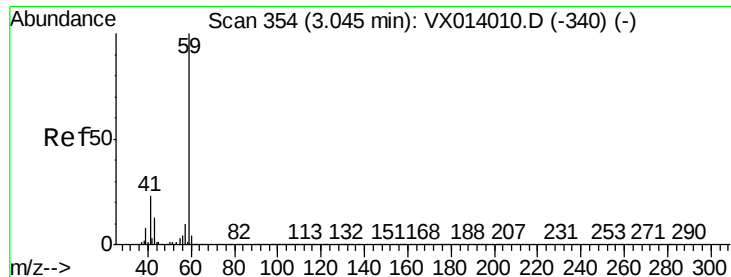
Ion Ratio Lower Upper

142 100

127 59.5 31.6 47.4#

141 33.0 11.6 17.4#



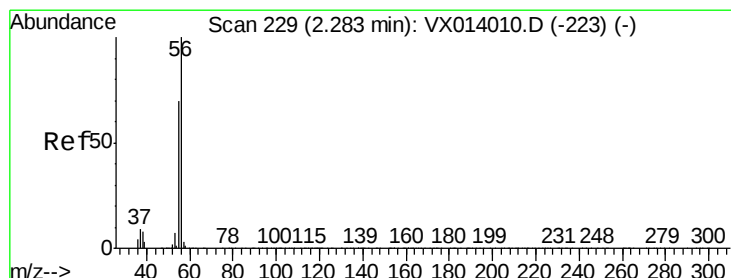
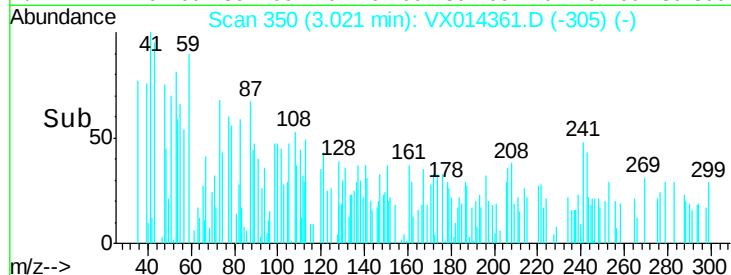
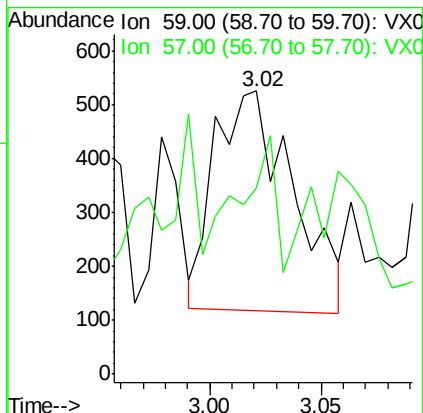
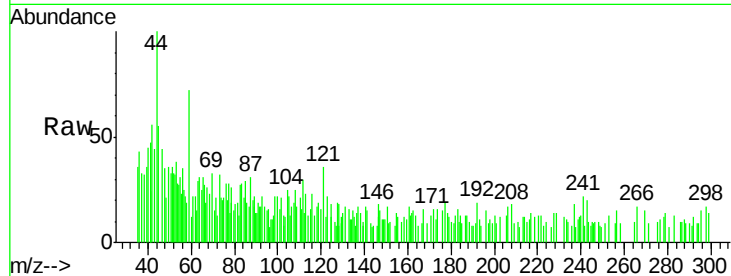


#11

Tert butvl alcohol
Concen: 0.807 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014361.D
Acq: 30 Dec 2019 18:06

Instrument :
MSVOA_X
ClientSampled :
GW-2

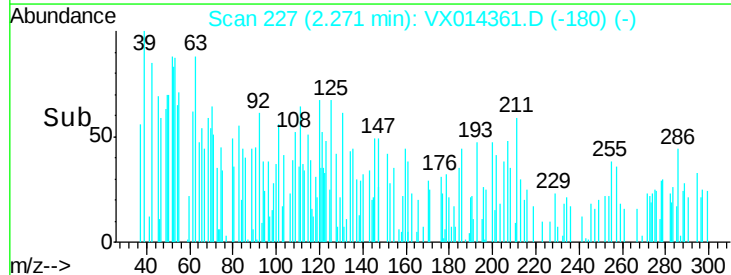
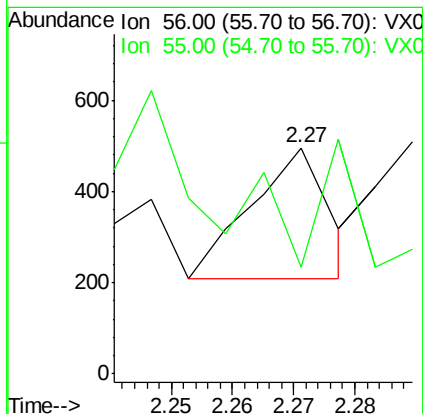
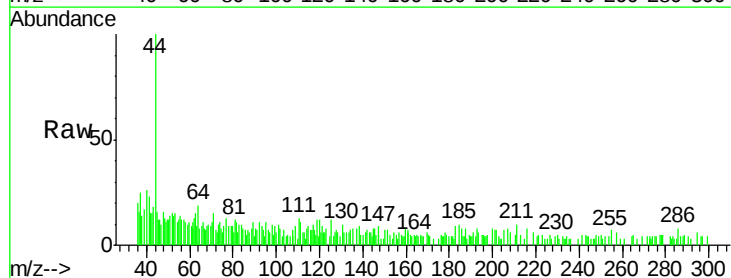
Tot Ion: 59 Resp: 998
Ion Ratio Lower Upper
59 100
57 47.4 8.4 12.6#

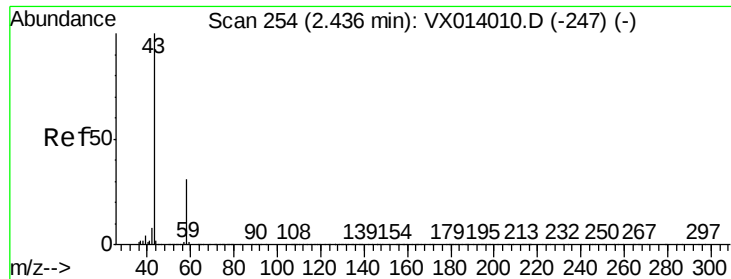


#13

Acrolein
Concen: 0.354 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX014361.D
Acq: 30 Dec 2019 18:06

Tgt Ion: 56 Resp: 251
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#16

Acetone

Concen: 5.489 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampled :

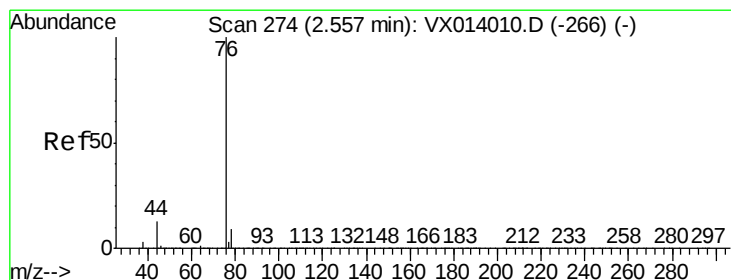
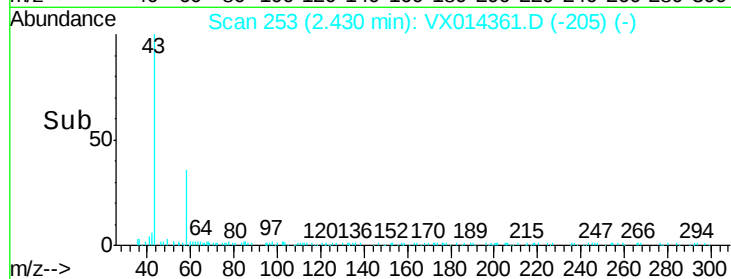
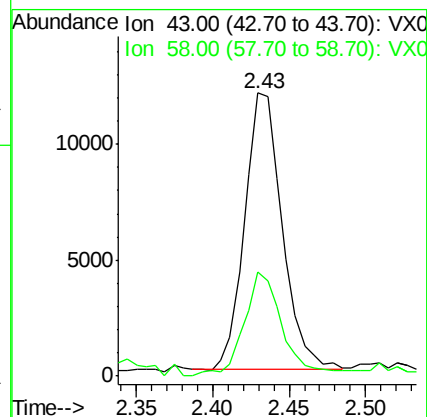
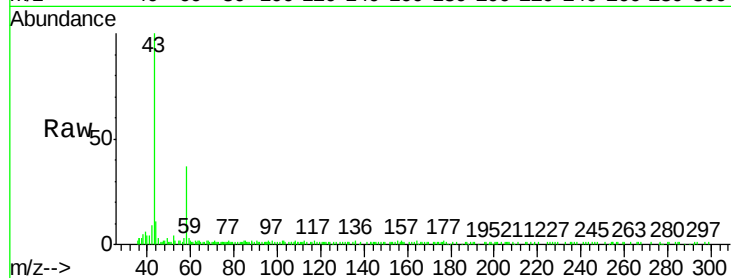
GW-2

Tot Ion: 43 Resp: 20400

Ion Ratio Lower Upper

43 100

58 37.4 24.9 37.3#



#17

Carbon Disulfide

Concen: 1.031 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014361.D

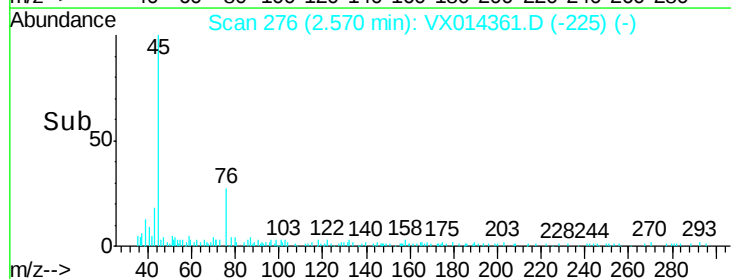
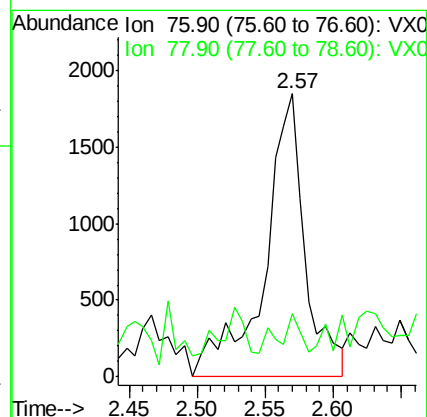
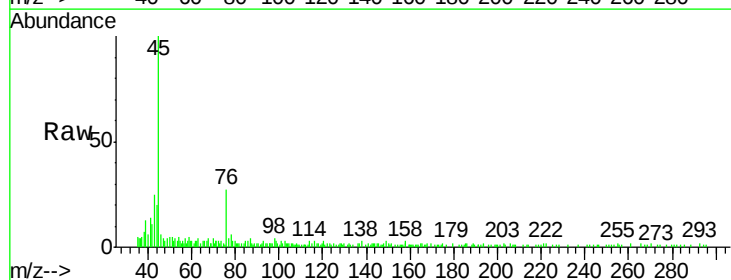
Acq: 30 Dec 2019 18:06

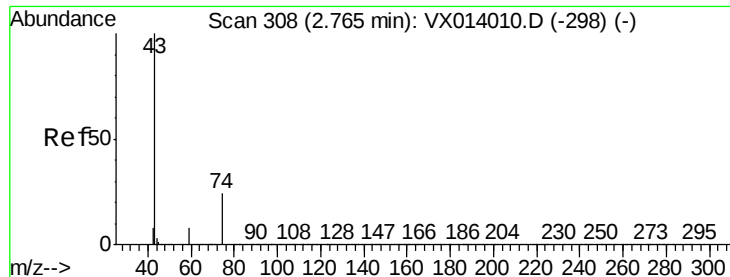
Tgt Ion: 76 Resp: 3846

Ion Ratio Lower Upper

76 100

78 16.0 7.2 10.8#

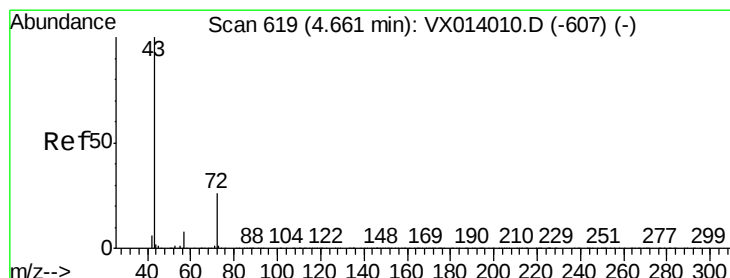
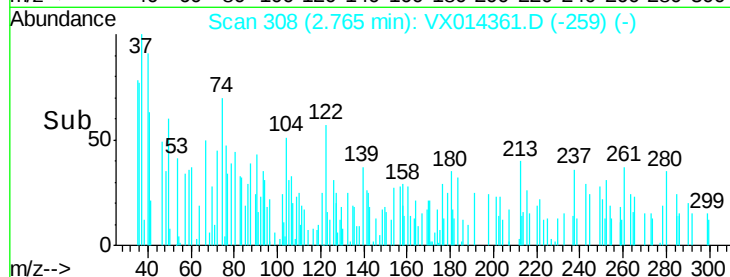
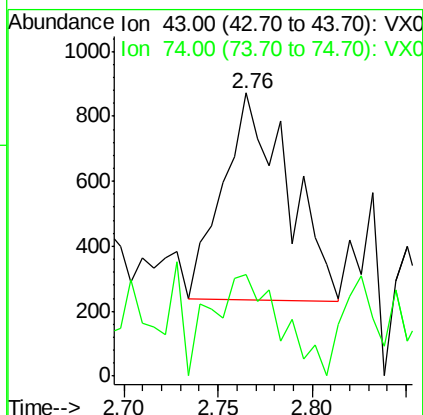
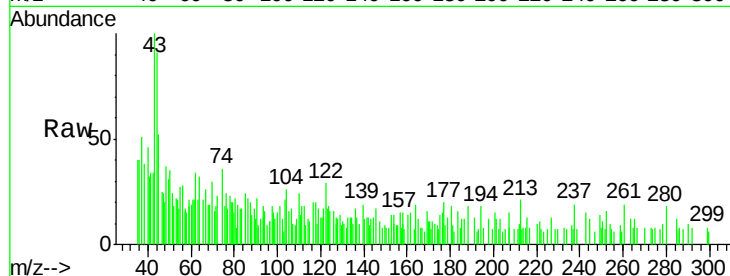




#18
Methyl Acetate
Concen: 0.207 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014361.D
Acq: 30 Dec 2019 18:06

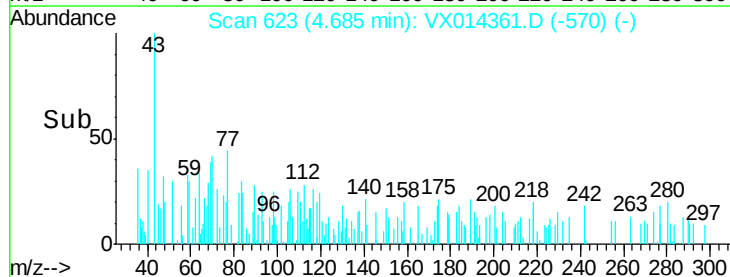
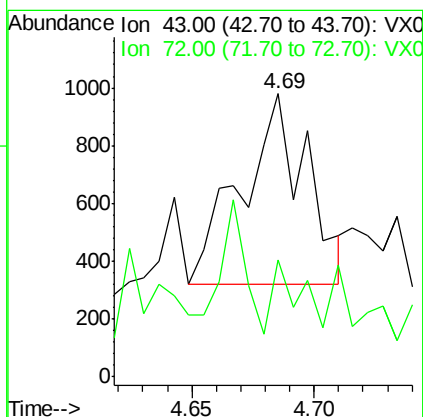
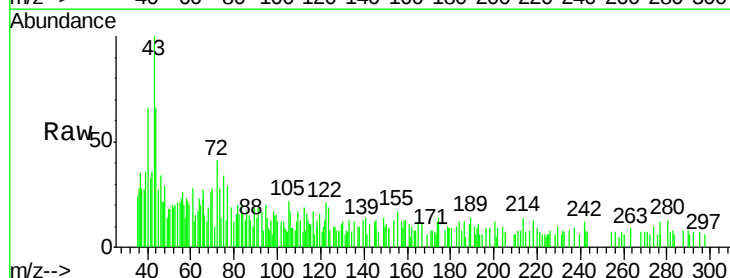
Instrument :
MSVOA_X
ClientSampled :
GW-2

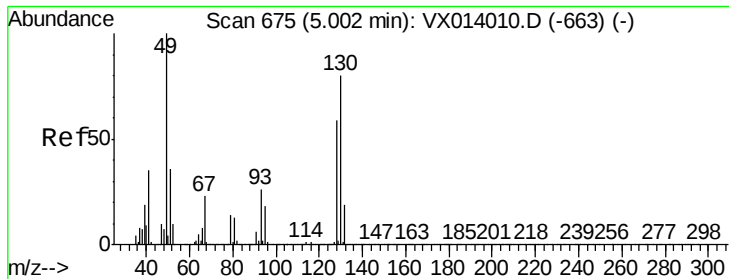
Tot Ion: 43 Resp: 1524
Ion Ratio Lower Upper
43 100
74 51.8 19.5 29.3#



#25
2-Butanone
Concen: 0.265 ug/l
RT: 4.69 min Scan# 623
Delta R.T. 0.02 min
Lab File: VX014361.D
Acq: 30 Dec 2019 18:06

Tgt Ion: 43 Resp: 1214
Ion Ratio Lower Upper
43 100
72 28.8 21.0 31.4

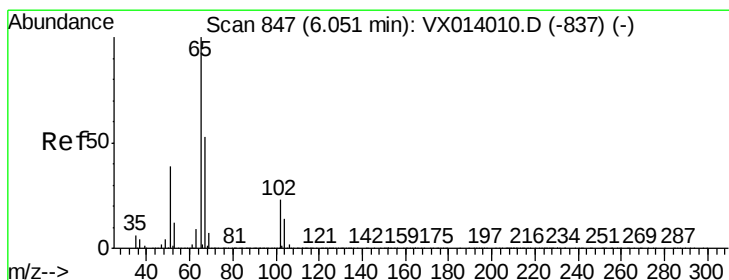
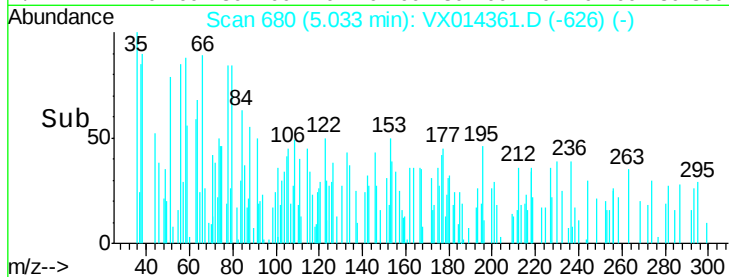
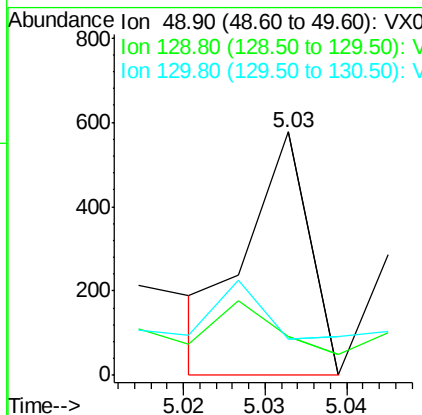
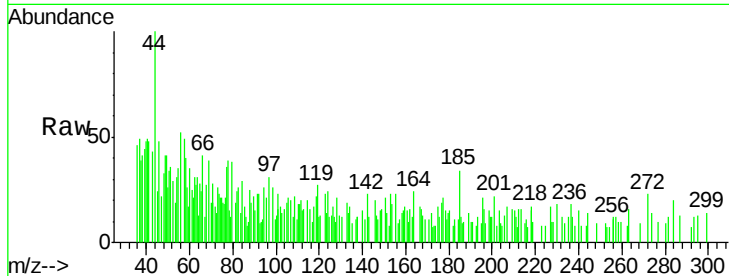




#28
Bromochloromethane
Concen: 0.534 ug/l
RT: 5.03 min Scan# 680
Delta R.T. 0.03 min
Lab File: VX014361.D
Acq: 30 Dec 2019 18:06

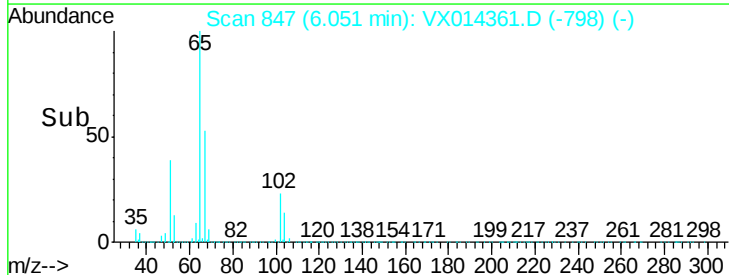
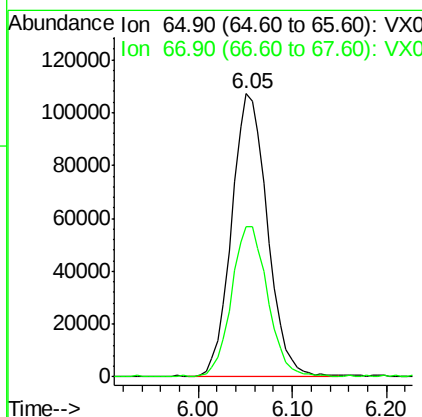
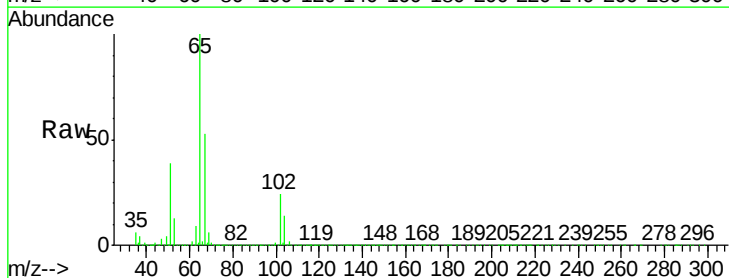
Instrument :
MSVOA_X
ClientSampled :
GW-2

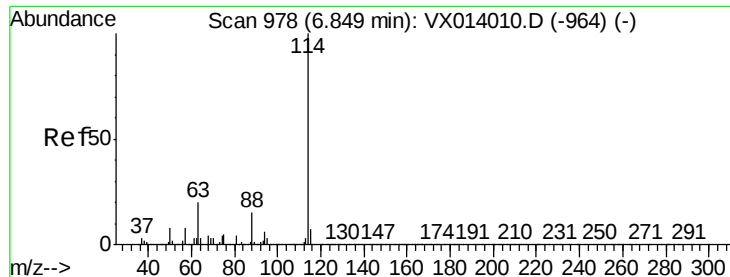
Tot Ion: 49 Resp: 298
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 23.5 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 49.391 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014361.D
Acq: 30 Dec 2019 18:06

Tgt Ion: 65 Resp: 282764
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampleId :

GW-2

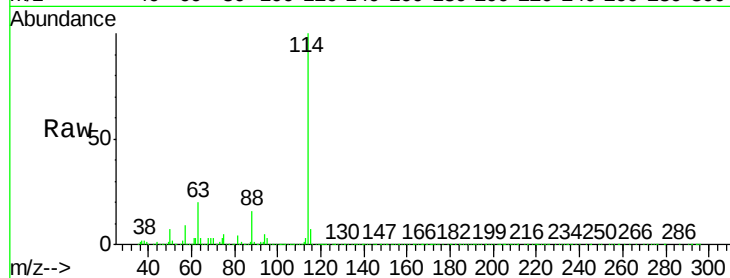
Tot Ion:114 Resp: 783984

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

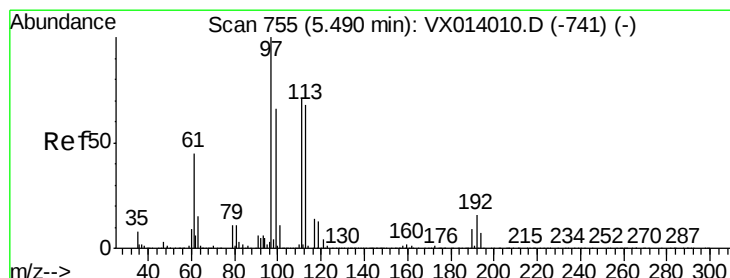
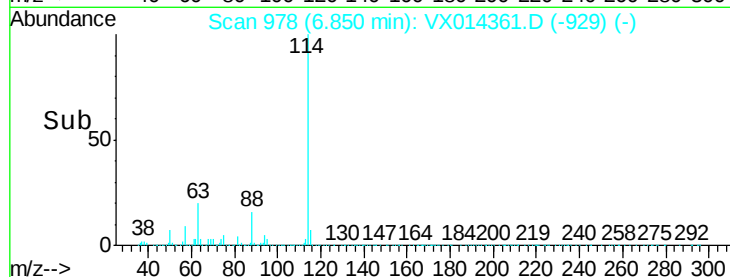
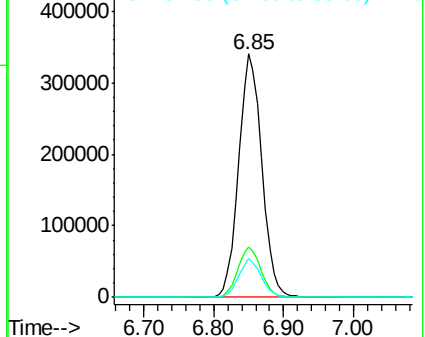
88 15.8 0.0 30.4



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: 49.037 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

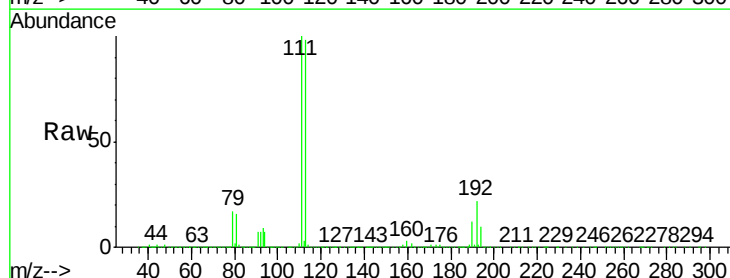
Tgt Ion:113 Resp: 233697

Ion Ratio Lower Upper

113 100

111 104.7 82.0 123.0

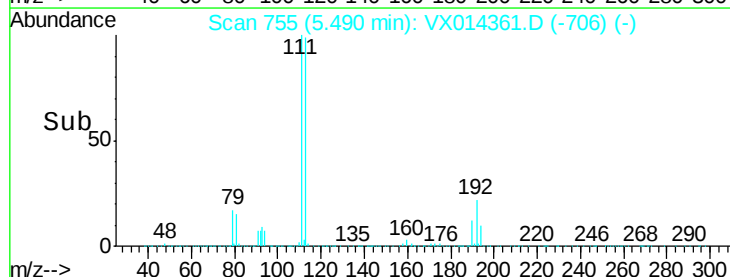
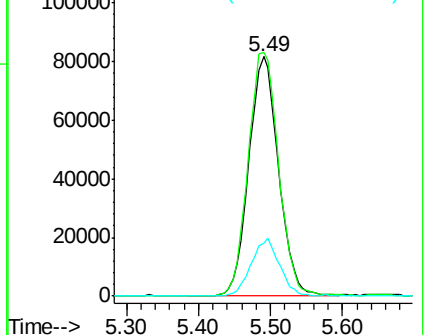
192 23.2 19.3 28.9

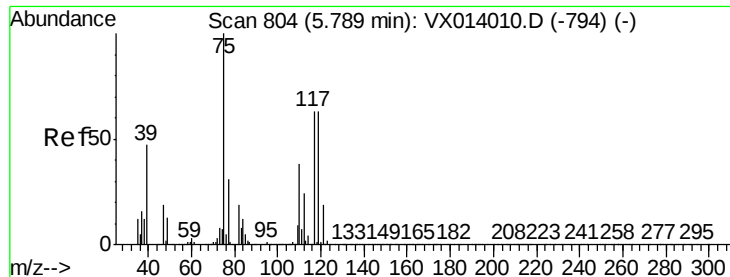


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

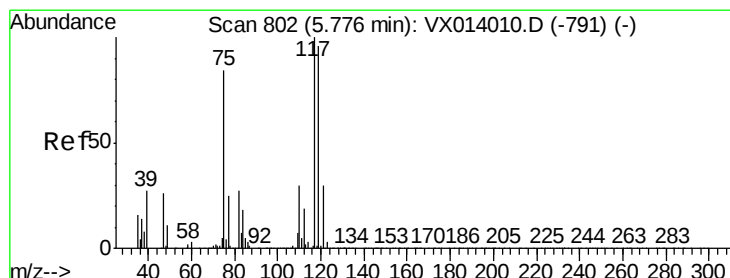
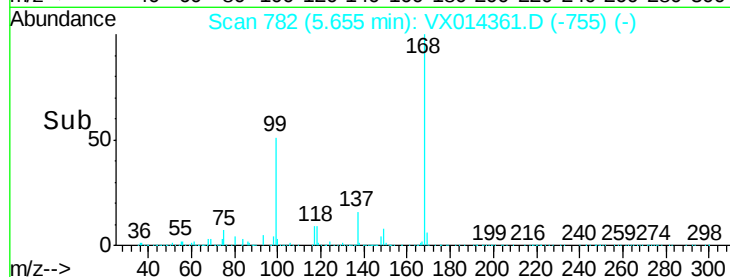
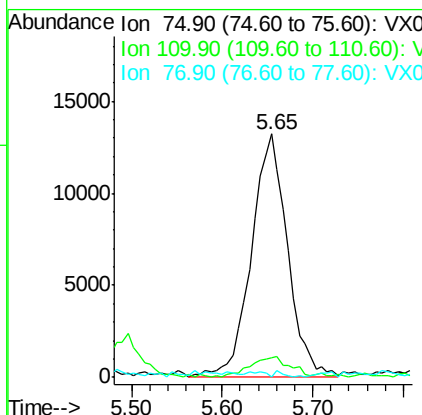
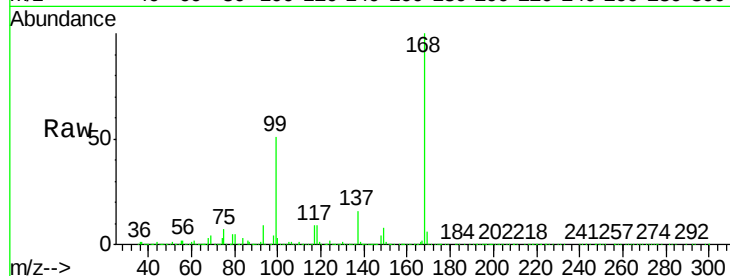




#36
 1,1-Dichloropropene
 Concen: 5.095 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014361.D
 Acq: 30 Dec 2019 18:06

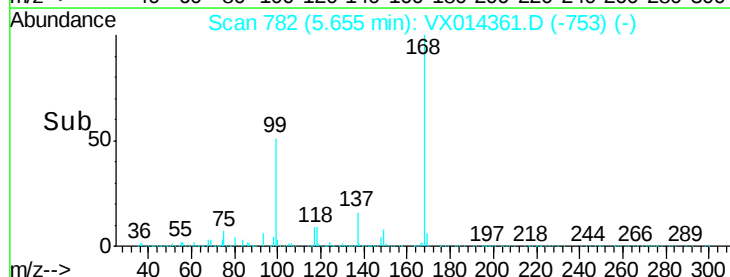
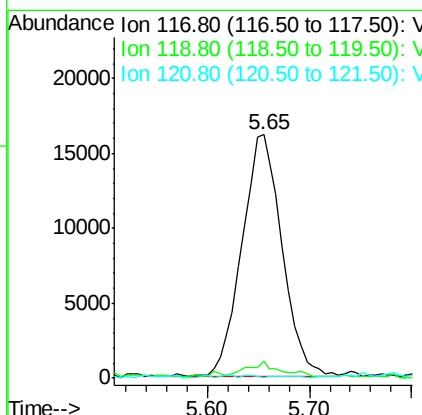
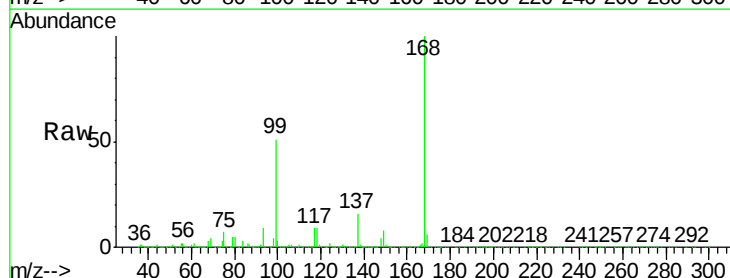
Instrument :
 MSVOA_X
 ClientSampleId :
 GW-2

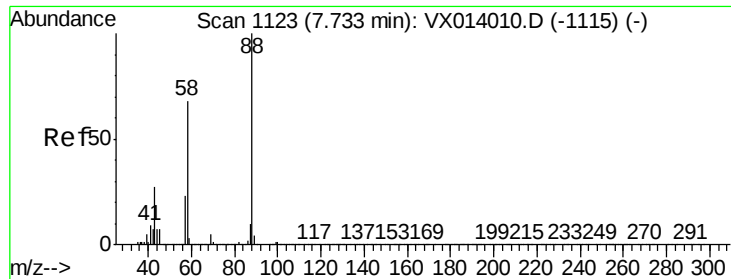
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.3	54.9#
77	0.8	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.733 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014361.D
 Acq: 30 Dec 2019 18:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	76.2	114.4#
121	0.0	23.6	35.4#





#49

1,4-Dioxane

Concen: 1.931 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampled :

GW-2

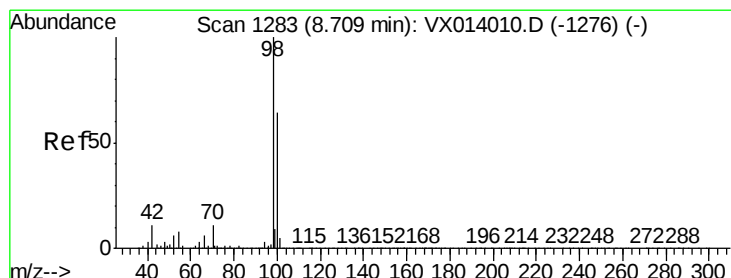
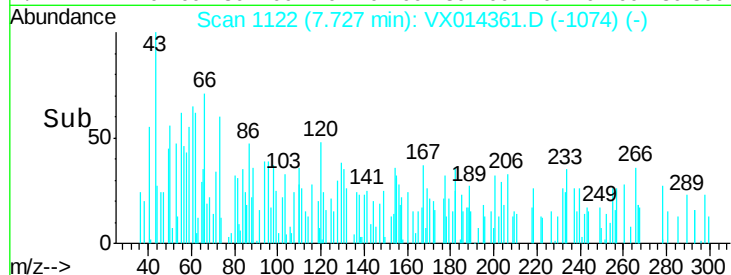
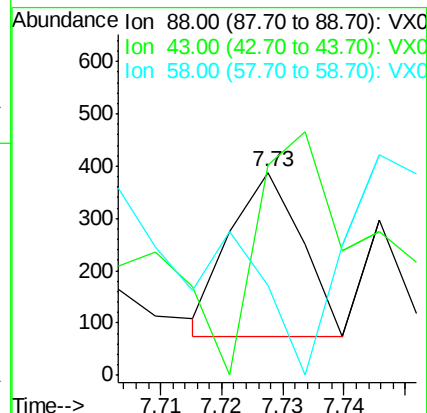
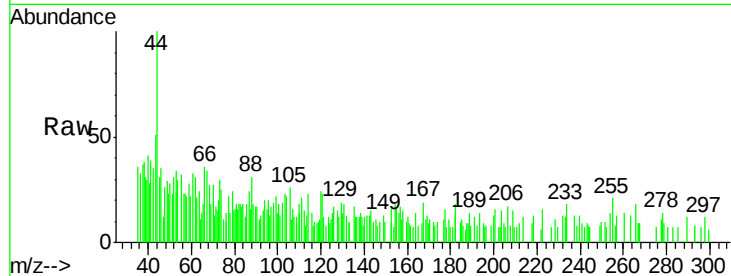
Tot Ion: 88 Resp: 253

Ion Ratio Lower Upper

88 100

43 230.8 26.5 39.7#

58 0.0 56.8 85.2#



#50

Toluene-d8

Concen: 50.185 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014361.D

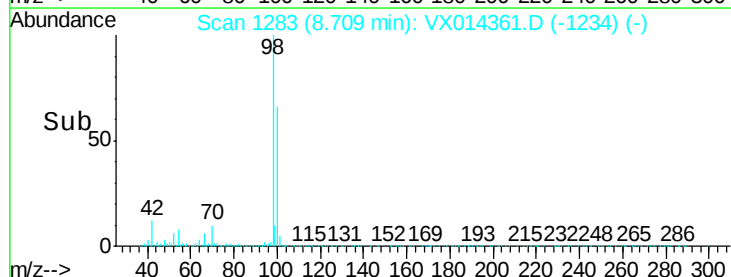
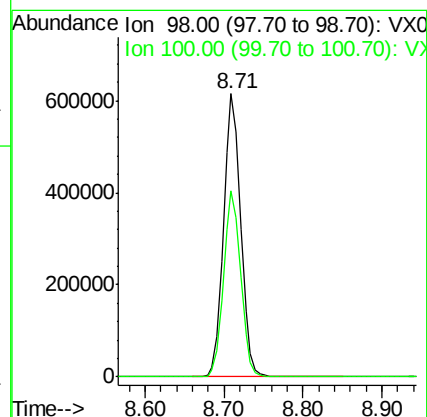
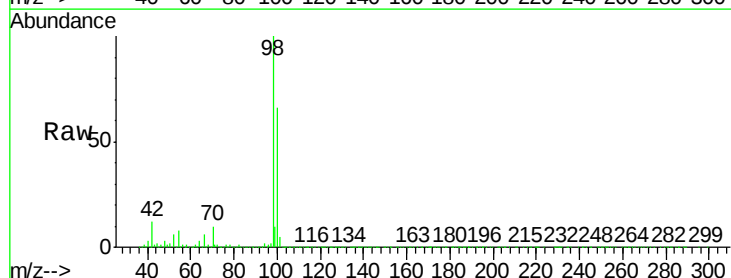
Acq: 30 Dec 2019 18:06

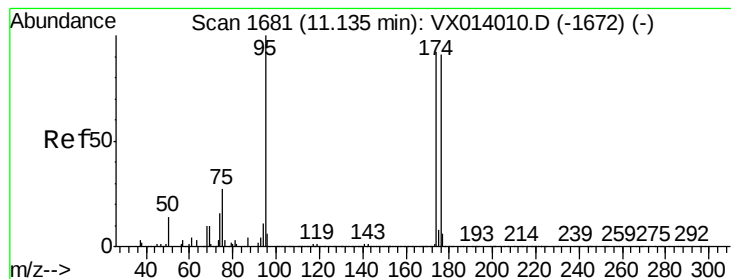
Tgt Ion: 98 Resp: 931141

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 45.710 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampleId :

GW-2

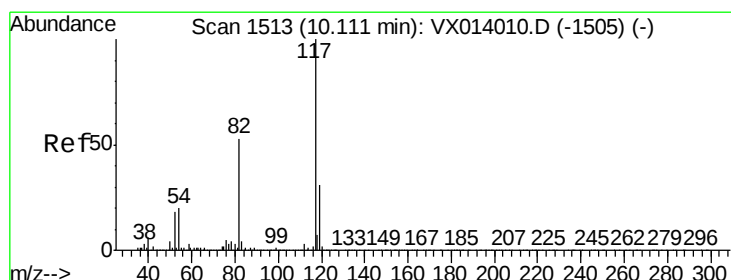
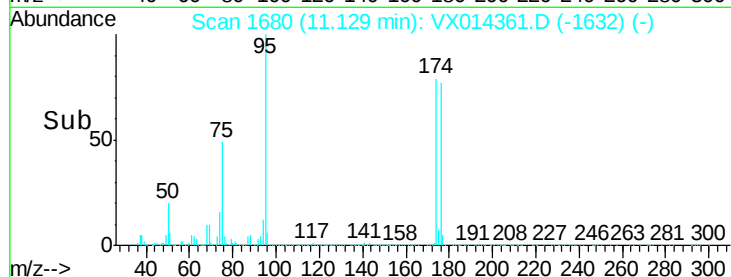
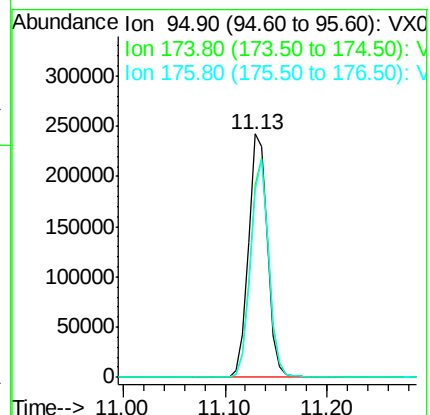
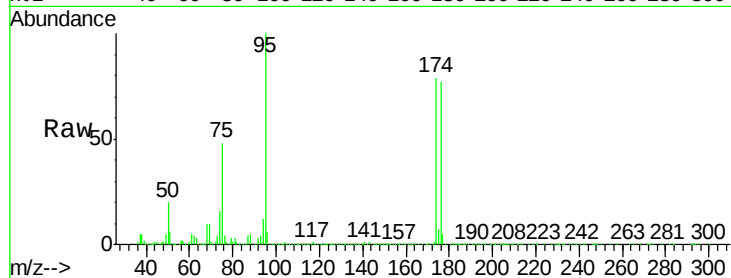
Tot Ion: 95 Resp: 310026

Ion Ratio Lower Upper

95 100

174 87.9 0.0 175.8

176 85.4 0.0 173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

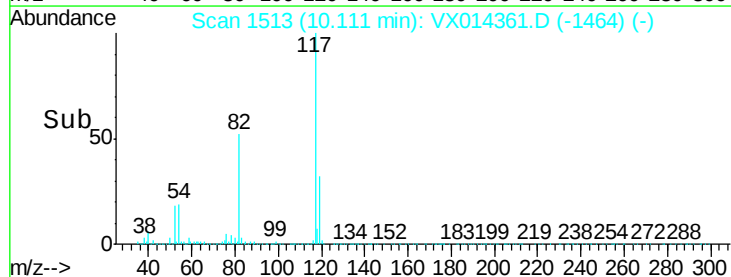
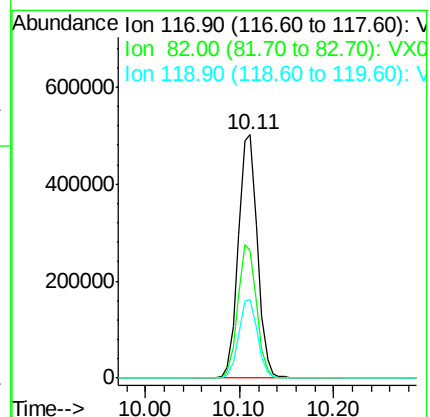
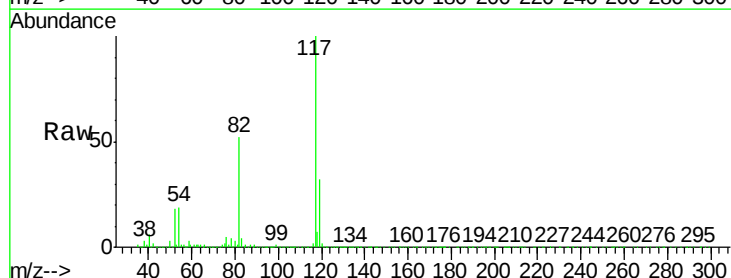
Tgt Ion: 117 Resp: 701797

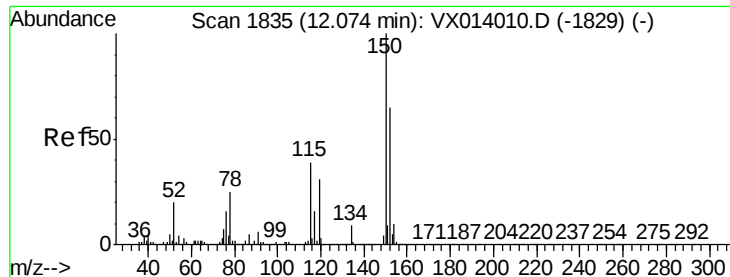
Ion Ratio Lower Upper

117 100

82 52.3 42.2 63.4

119 32.0 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampled :

GW-2

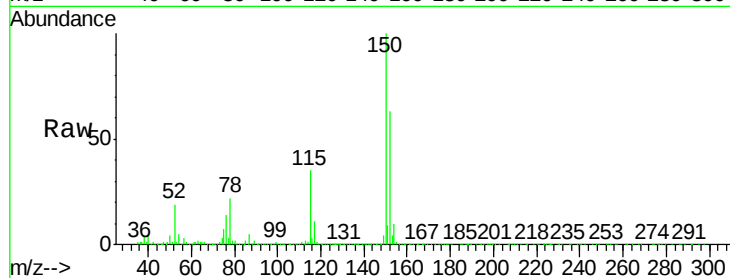
Tot Ion:152 Resp: 309043

Ion Ratio Lower Upper

152 100

115 55.3 38.3 114.9

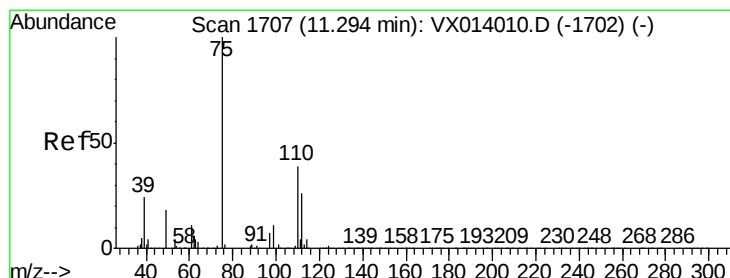
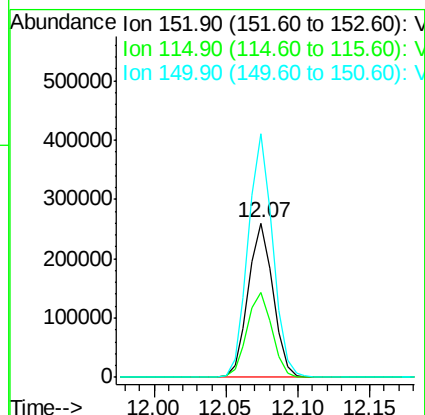
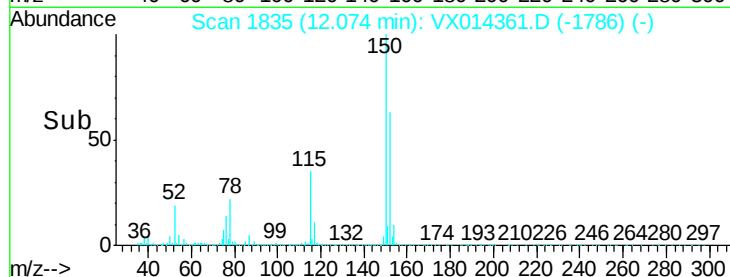
150 156.8 0.0 345.4



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: 22.281 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014361.D

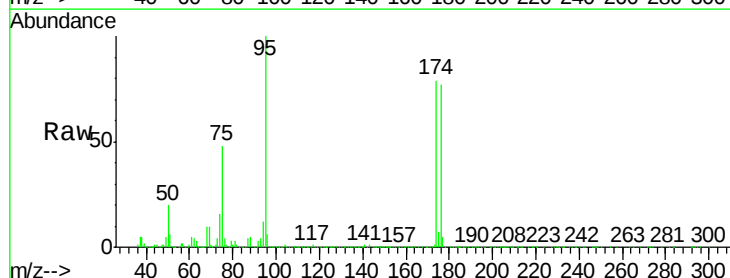
Acq: 30 Dec 2019 18:06

Tgt Ion: 75 Resp: 149487

Ion Ratio Lower Upper

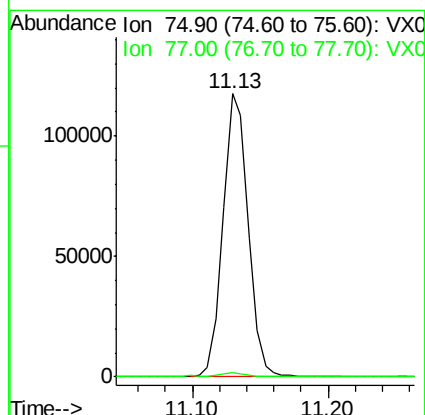
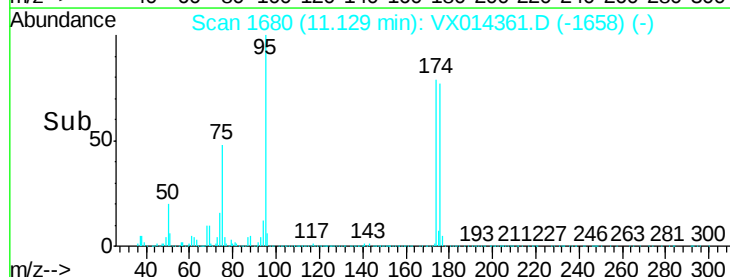
75 100

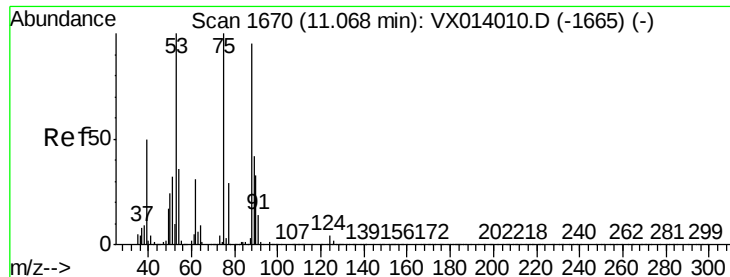
77 1.6 19.3 57.8#



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: 62.888 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014361.D

Acq: 30 Dec 2019 18:06

Instrument :

MSVOA_X

ClientSampleId :

GW-2

Tot Ion: 75 Resp: 149487

Ion Ratio Lower Upper

75 100

53 0.5 76.7 115.1#

89 0.0 34.6 51.8#

