

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014320.D
 Acq On : 27 Dec 2019 19:38
 Operator : JC/SP
 Sample : K6449-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-4

Quant Time: Dec 30 05:38:53 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	497638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	771701	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	697873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	306720	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	282409	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
35) Dibromofluoromethane	5.49	113	230175	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
50) Toluene-d8	8.71	98	918789	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	11.13	95	311586	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	

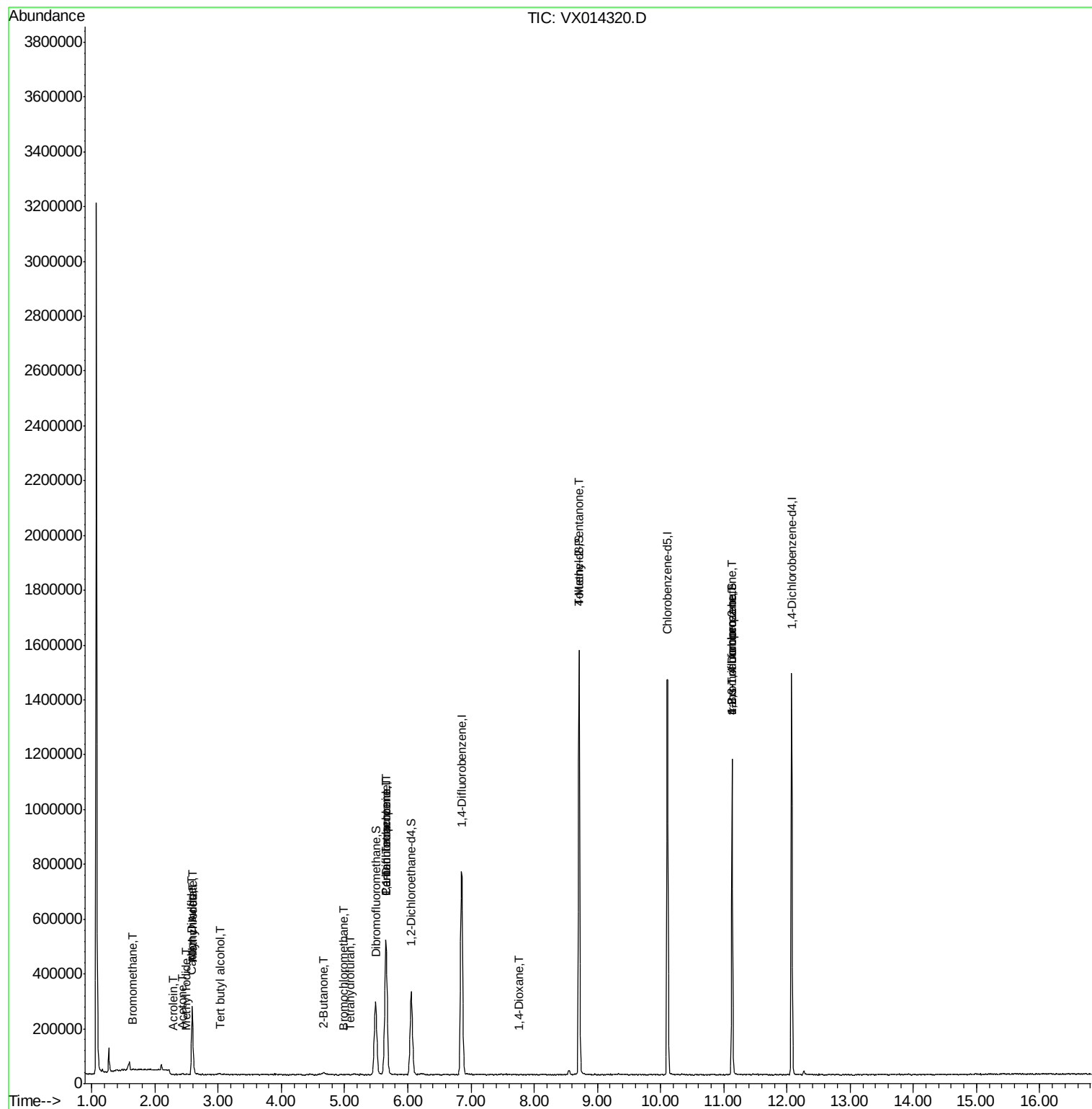
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1702	0.380	ug/l #	28
10) Methyl Iodide	2.48	142	203	2.652	ug/l #	53
11) Tert butyl alcohol	3.03	59	4213	3.457	ug/l #	90
13) Acrolein	2.30	56	827	1.185	ug/l #	45
14) Allyl chloride	2.59	41	24319	2.845	ug/l #	68
16) Acetone	2.44	43	4316	1.179	ug/l #	82
17) Carbon Disulfide	2.58	76	844	0.813	ug/l #	75
18) Methyl Acetate	2.59	43	67882	9.356	ug/l #	52
25) 2-Butanone	4.65	43	1518	0.336	ug/l #	68
28) Bromochloromethane	4.99	49	565	0.607	ug/l #	8
29) Tetrahydrofuran	5.09	42	573	0.227	ug/l #	68
36) 1,1-Dichloropropene	5.65	75	36031	5.089	ug/l #	41
38) Carbon Tetrachloride	5.65	117	44474	6.895	ug/l #	16
49) 1,4-Dioxane	7.76	88	231	1.791	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	4223	0.520	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	150730	22.636	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	150730	63.891	ug/l #	11

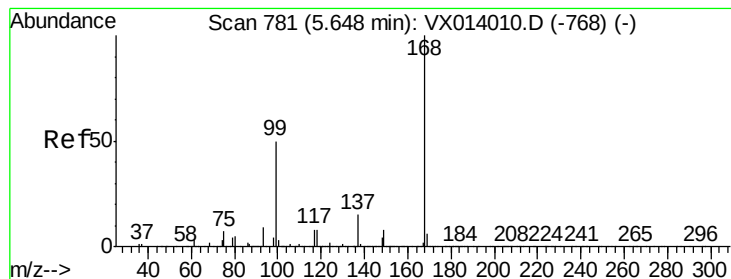
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampleId :

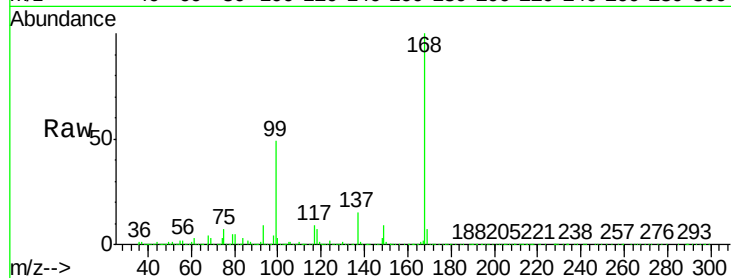
OW-4

Tgt Ion: 168 Resp: 497638

Ion Ratio Lower Upper

168 100

99 49.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

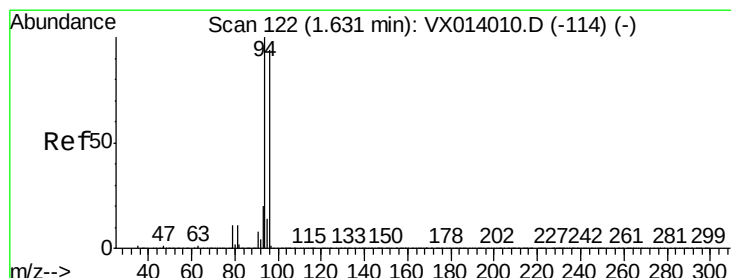
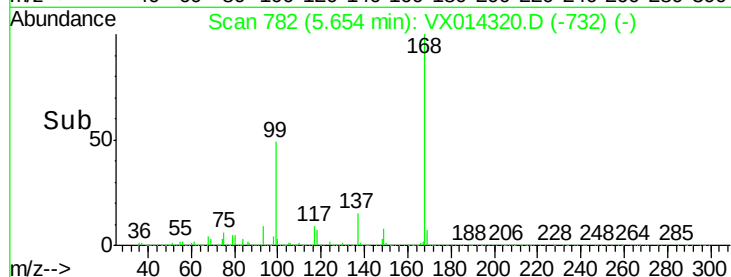
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.380 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014320.D

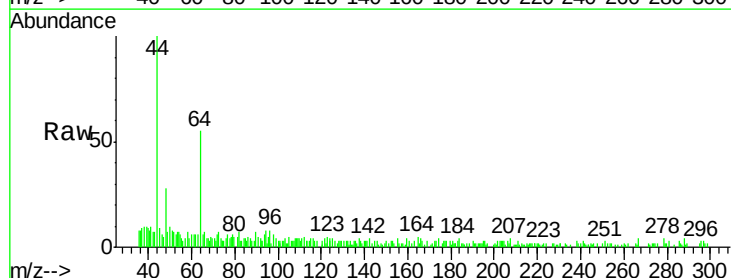
Acq: 27 Dec 2019 19:38

Tgt Ion: 94 Resp: 1702

Ion Ratio Lower Upper

94 100

96 24.2 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

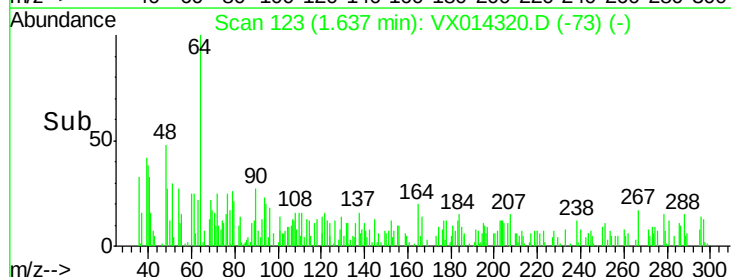
400

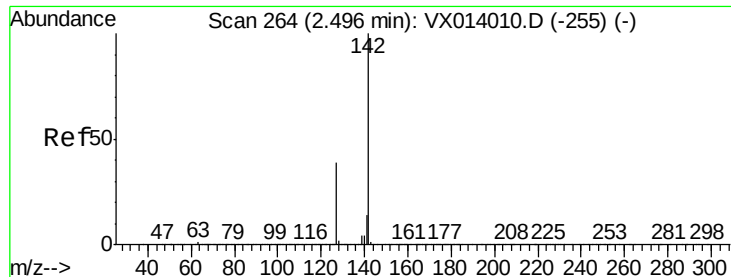
200

0

Time-->

1.60 1.65 1.70





#10

Methyl Iodide

Concen: 2.652 ug/l

RT: 2.48 min Scan# 261

Delta R.T. -0.02 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampled :

OW-4

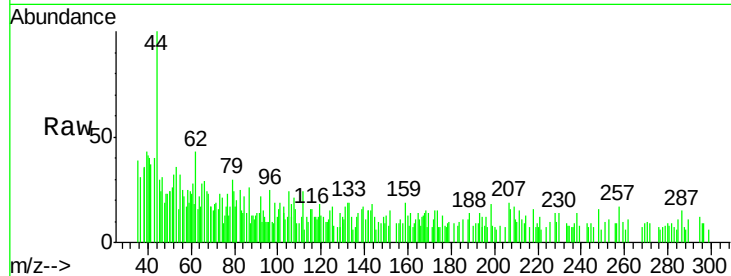
Tgt Ion:142 Resp: 203

Ion Ratio Lower Upper

142 100

127 12.8 31.6 47.4#

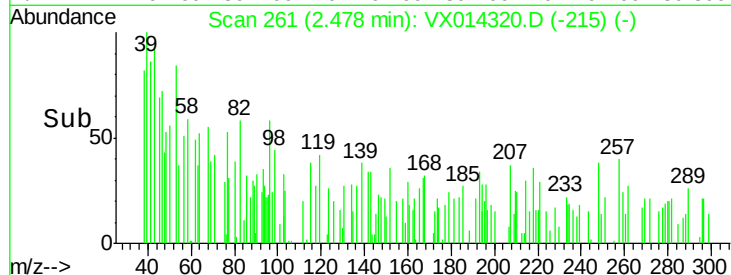
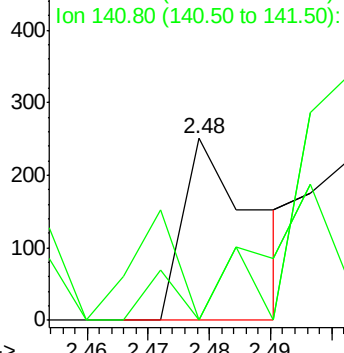
141 38.4 11.6 17.4#



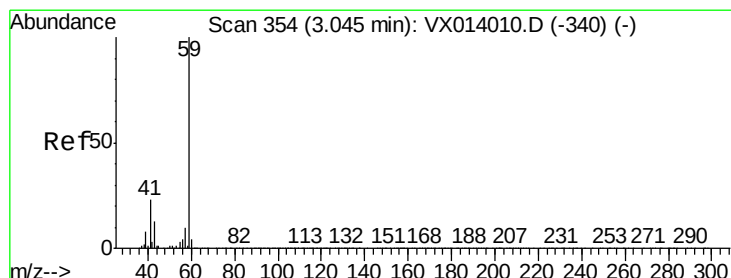
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#11

Tert butyl alcohol

Concen: 3.457 ug/l

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

Lab File: VX014320.D

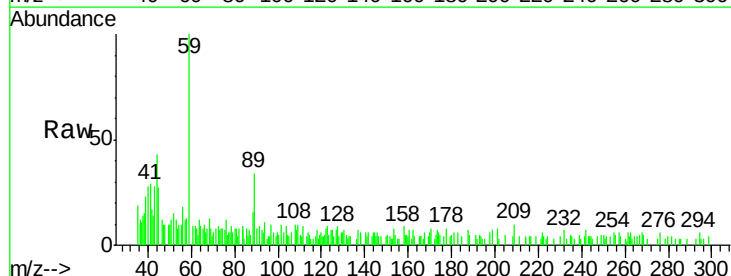
Acq: 27 Dec 2019 19:38

Tgt Ion: 59 Resp: 4213

Ion Ratio Lower Upper

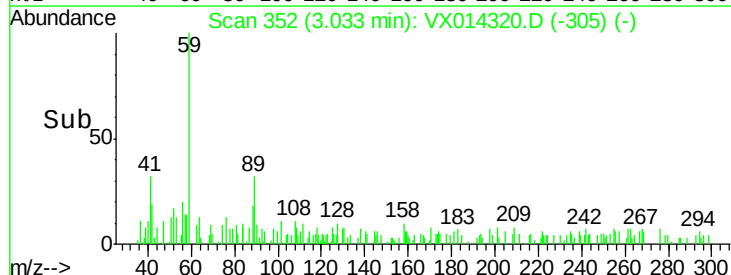
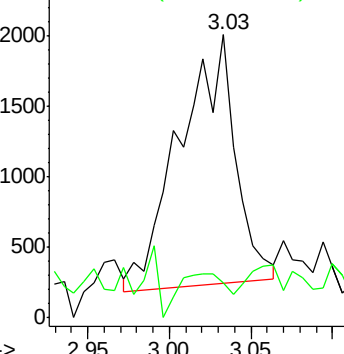
59 100

57 6.6 8.4 12.6#

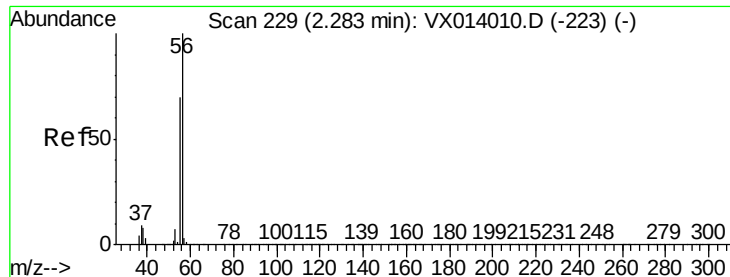


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 1.185 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampleId :

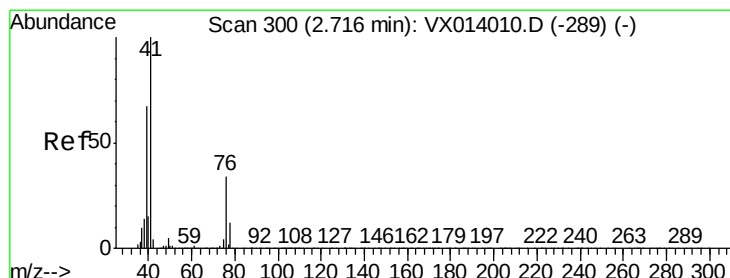
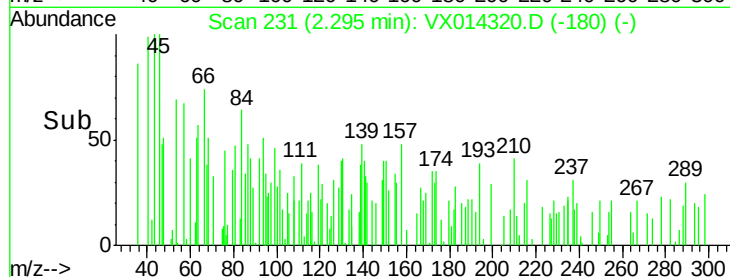
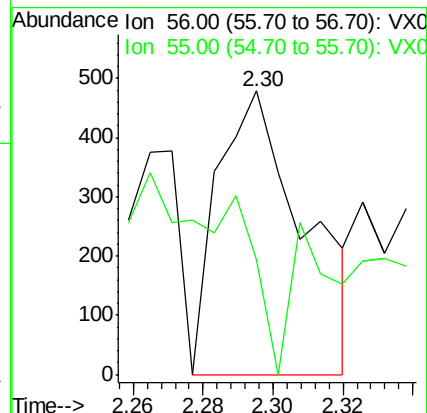
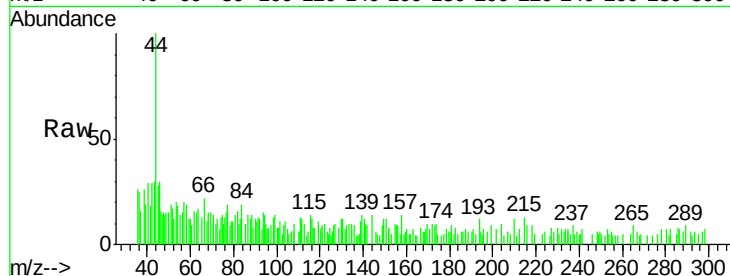
OW-4

Tgt Ion: 56 Resp: 827

Ion Ratio Lower Upper

56 100

55 25.6 56.9 85.3#



#14

Allyl chloride

Concen: 2.845 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

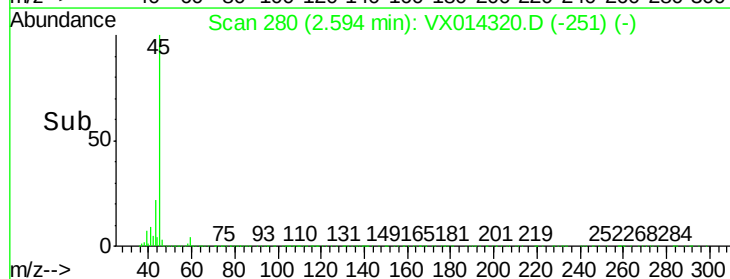
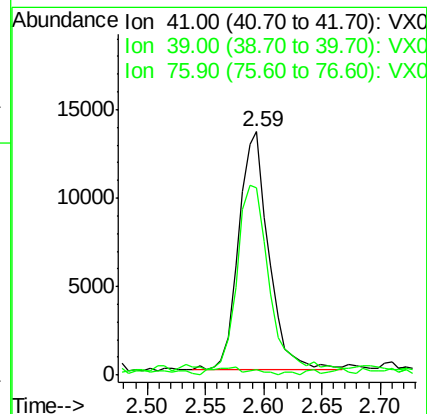
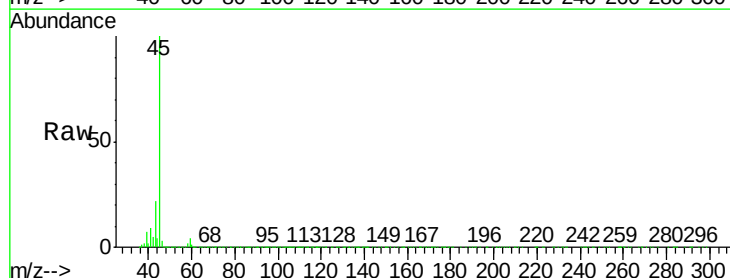
Tgt Ion: 41 Resp: 24319

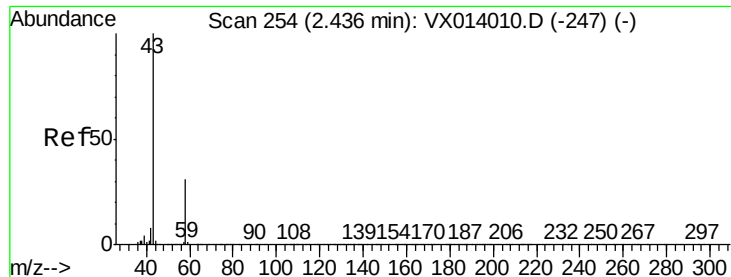
Ion Ratio Lower Upper

41 100

39 82.1 51.8 77.8#

76 3.5 25.9 38.9#

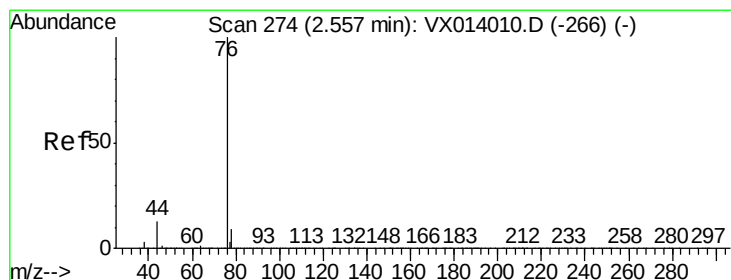
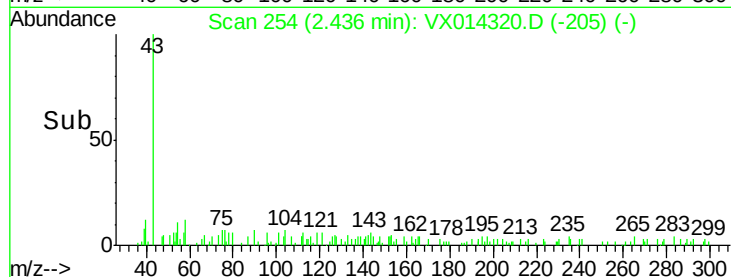
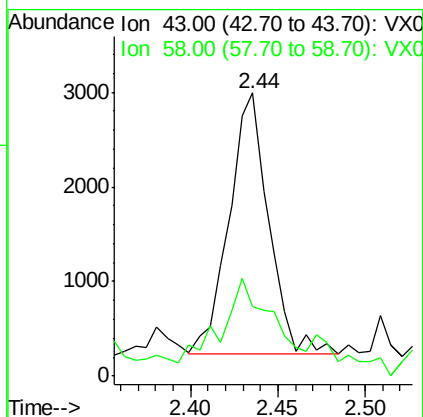
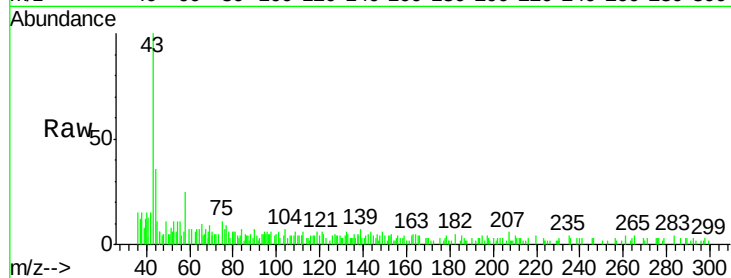




#16
Acetone
Concen: 1.179 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX014320.D
Acq: 27 Dec 2019 19:38

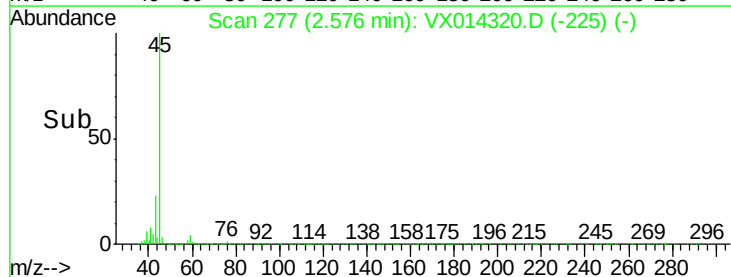
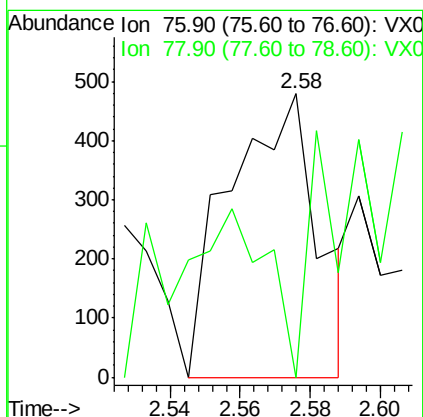
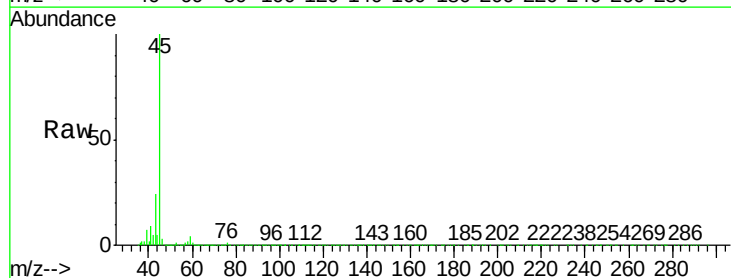
Instrument :
MSVOA_X
ClientSampled :
OW-4

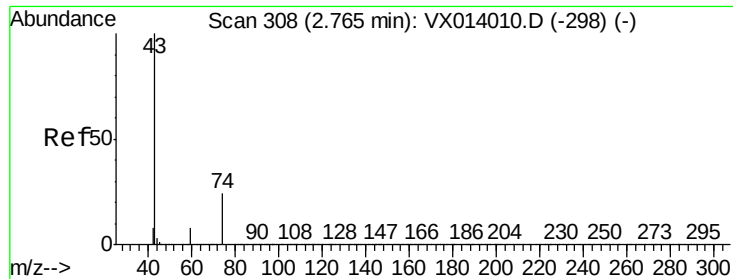
Tgt Ion: 43 Resp: 4316
Ion Ratio Lower Upper
43 100
58 21.2 24.9 37.3#



#17
Carbon Disulfide
Concen: 0.813 ug/l
RT: 2.58 min Scan# 277
Delta R.T. 0.02 min
Lab File: VX014320.D
Acq: 27 Dec 2019 19:38

Tgt Ion: 76 Resp: 844
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

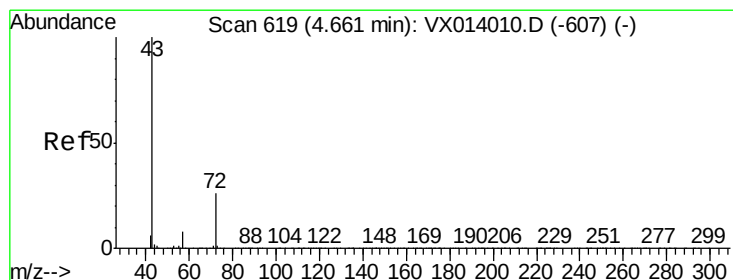
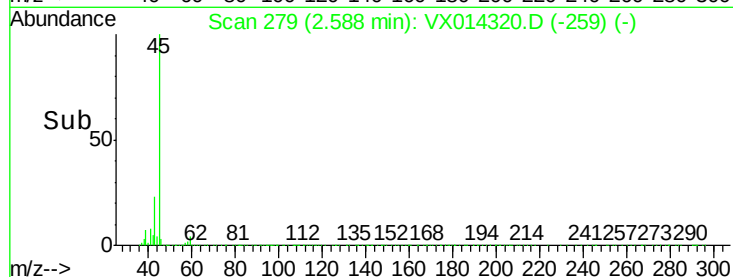
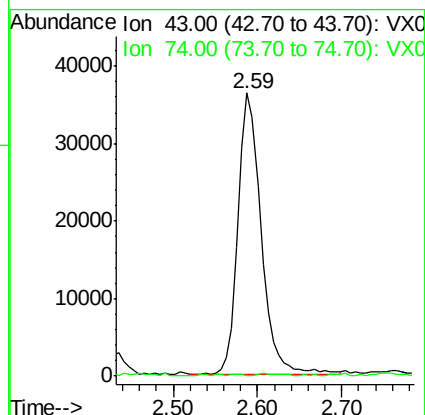
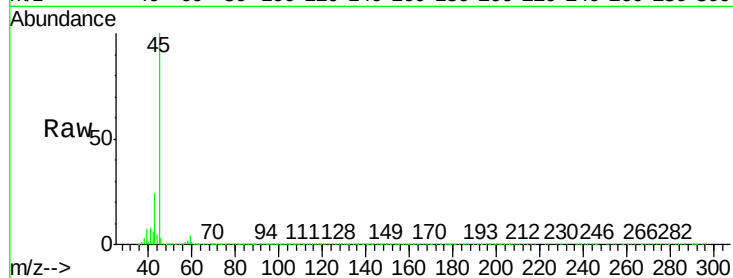




#18
Methyl Acetate
Concen: 9.356 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.18 min
Lab File: VX014320.D
Acq: 27 Dec 2019 19:38

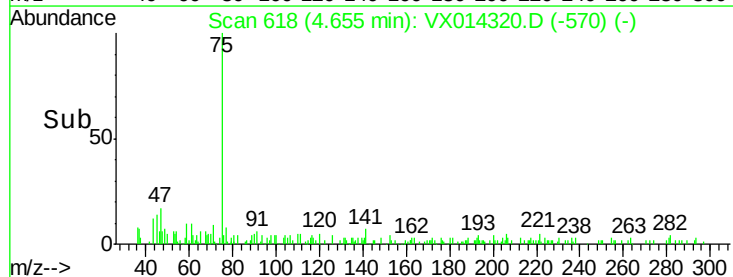
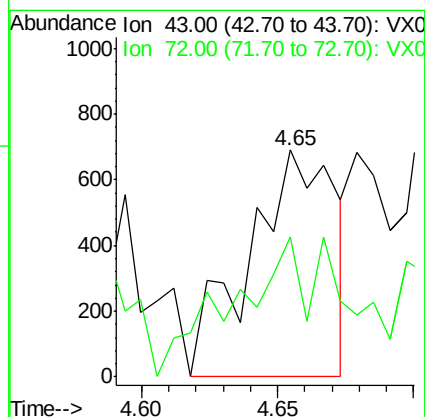
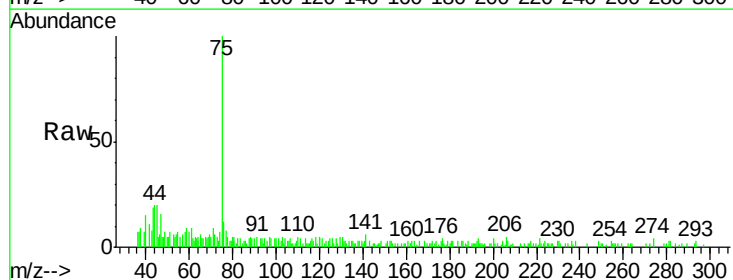
Instrument :
MSVOA_X
ClientSampleId :
OW-4

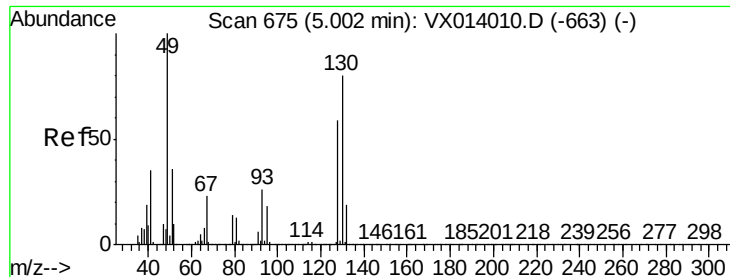
Tgt Ion: 43 Resp: 67882
Ion Ratio Lower Upper
43 100
74 0.5 19.5 29.3#



#25
2-Butanone
Concen: 0.336 ug/l
RT: 4.65 min Scan# 618
Delta R.T. -0.01 min
Lab File: VX014320.D
Acq: 27 Dec 2019 19:38

Tgt Ion: 43 Resp: 1518
Ion Ratio Lower Upper
43 100
72 42.4 21.0 31.4#





#28

Bromochloromethane

Concen: 0.607 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampleId :

OW-4

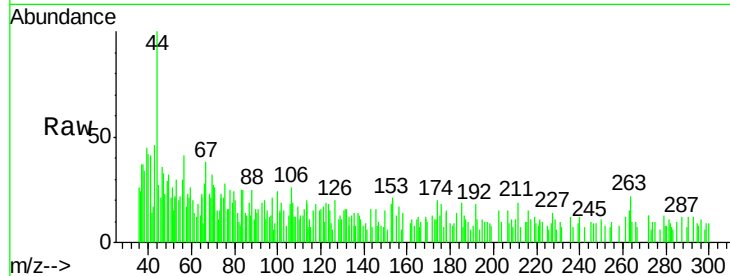
Tgt Ion: 49 Resp: 565

Ion Ratio Lower Upper

49 100

129 43.0 0.0 5.0#

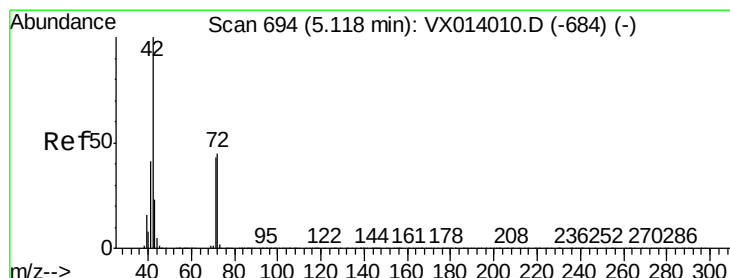
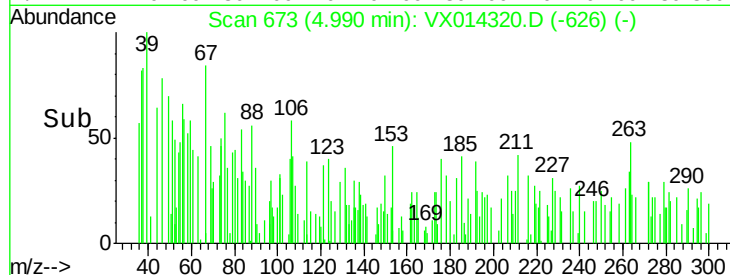
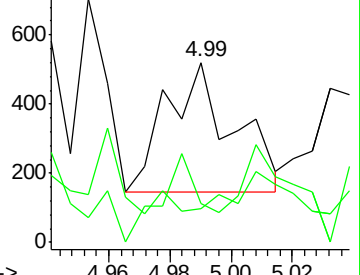
130 0.0 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.227 ug/l

RT: 5.09 min Scan# 690

Delta R.T. -0.02 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

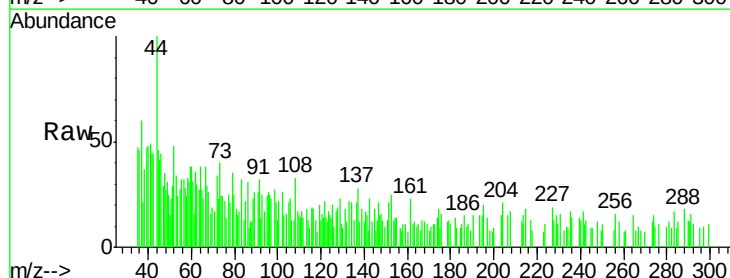
Tgt Ion: 42 Resp: 573

Ion Ratio Lower Upper

42 100

72 18.8 35.8 53.8#

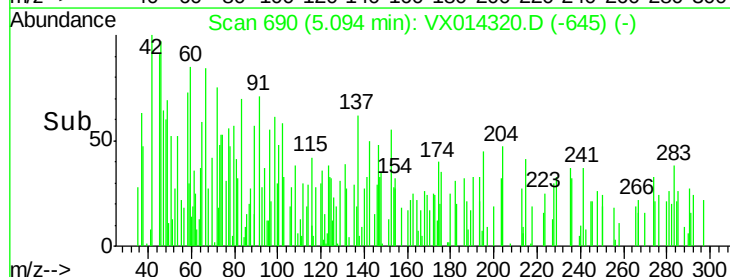
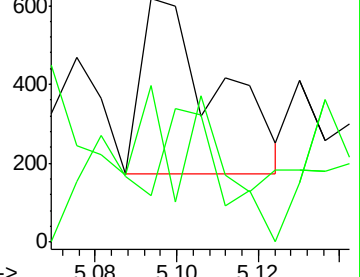
71 56.5 33.6 50.4#

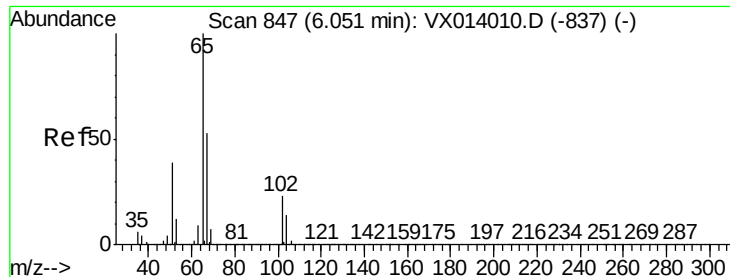


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.072 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampleId :

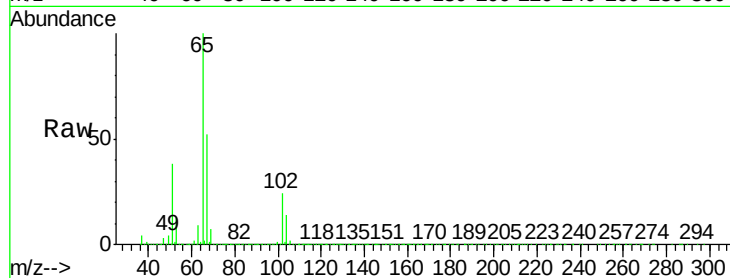
OW-4

Tgt Ion: 65 Resp: 282409

Ion Ratio Lower Upper

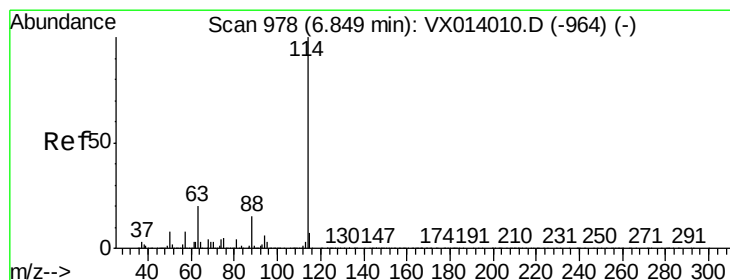
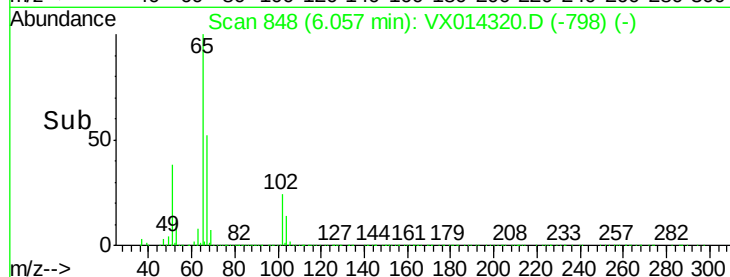
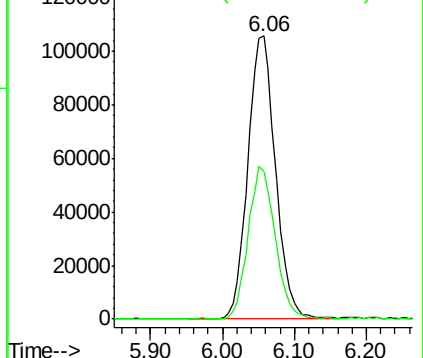
65 100

67 52.2 0.0 106.4



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# 979

Delta R.T. 0.01 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

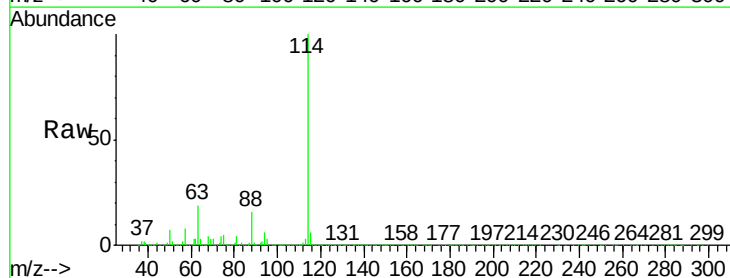
Tgt Ion: 114 Resp: 771701

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.8

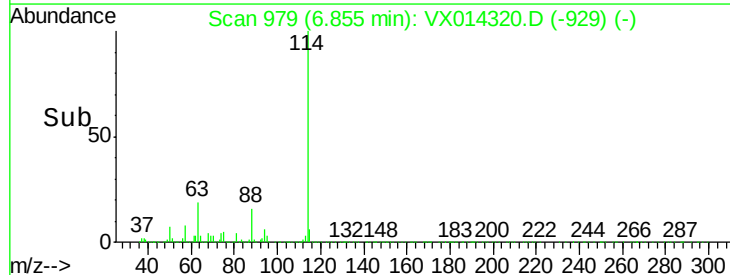
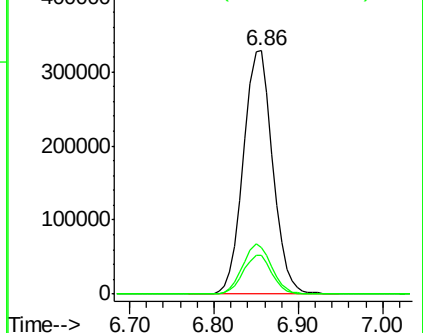
88 15.7 0.0 30.4

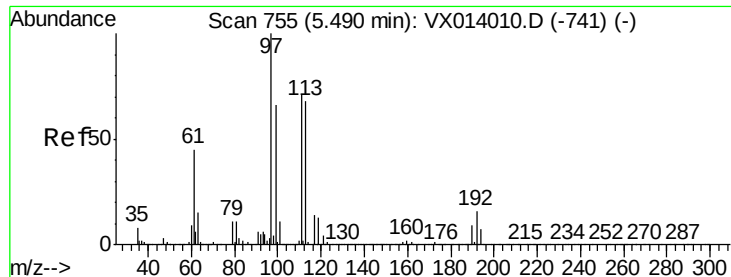


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.066 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampled :

OW-4

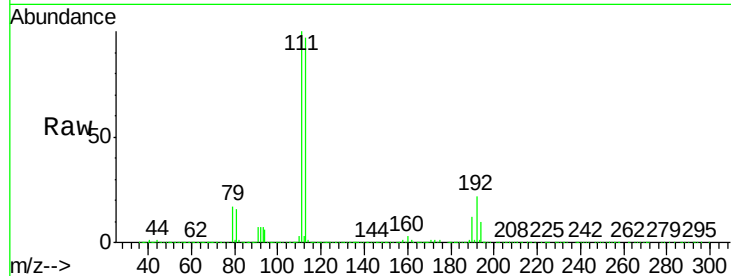
Tgt Ion:113 Resp: 230175

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

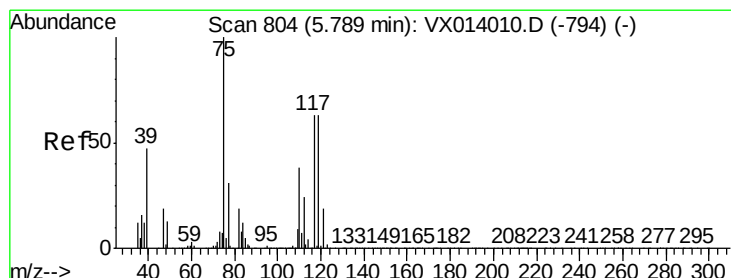
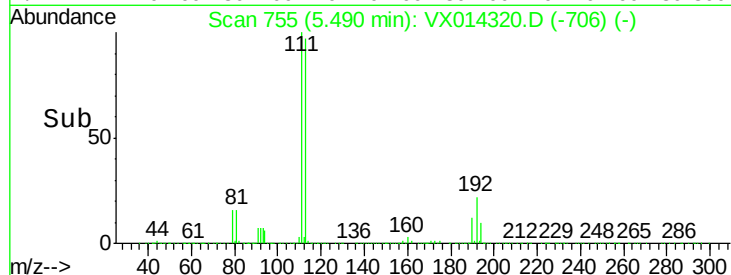
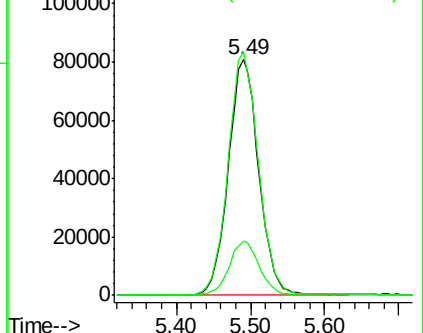
192 23.0 19.3 28.9



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: 5.089 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

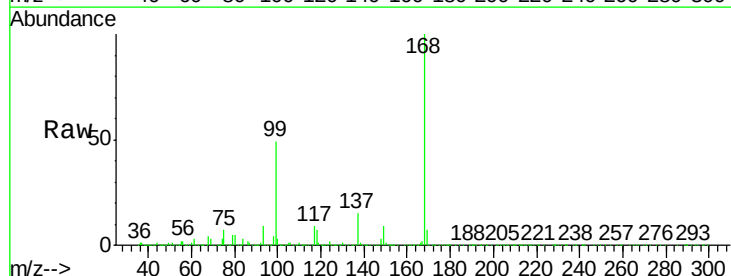
Tgt Ion: 75 Resp: 36031

Ion Ratio Lower Upper

75 100

110 0.0 18.3 54.9#

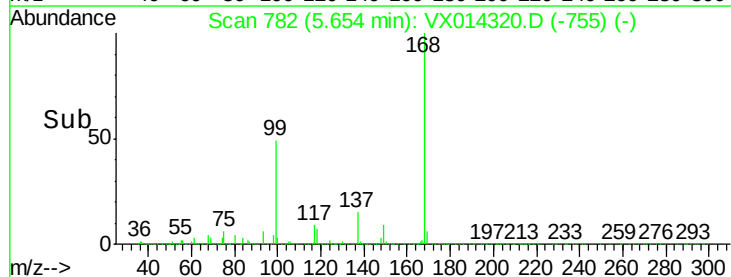
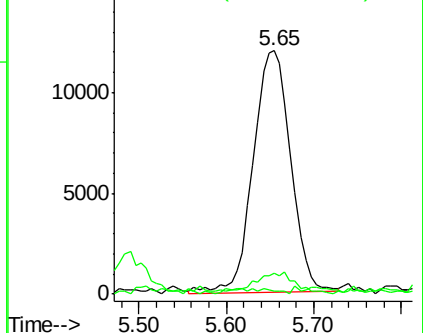
77 0.0 24.8 37.2#

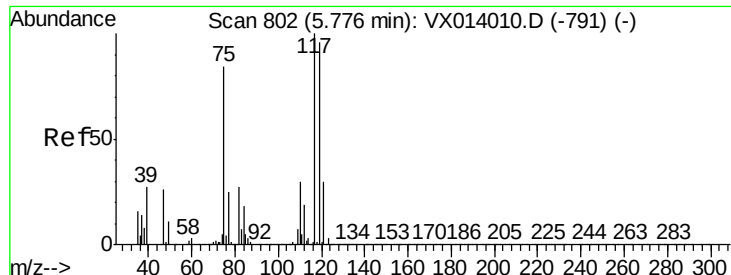


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.895 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampled :

OW-4

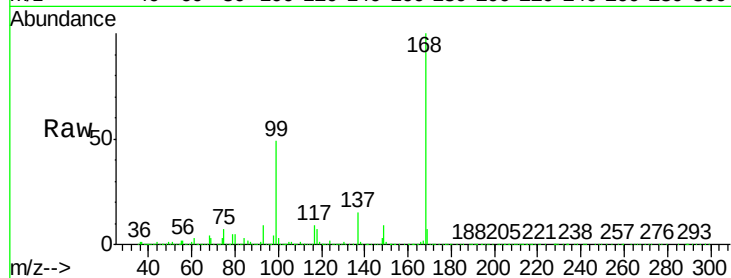
Tgt Ion:117 Resp: 44474

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.4#

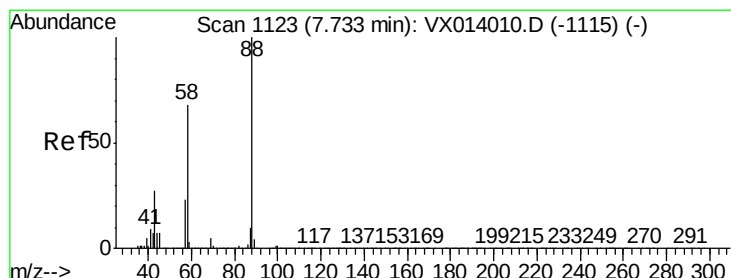
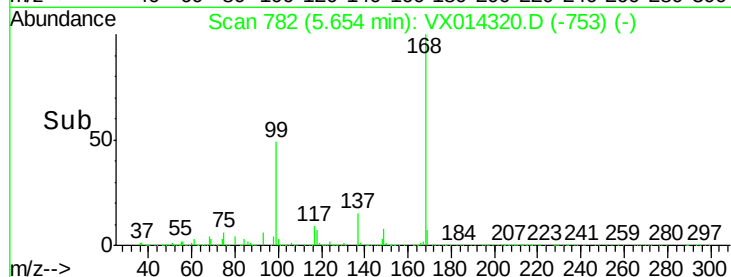
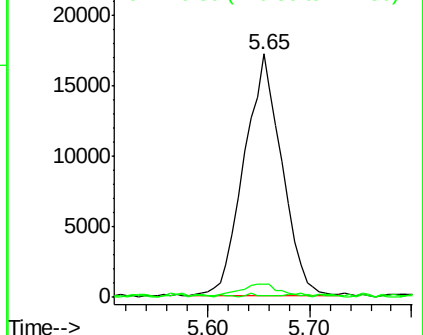
121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.791 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

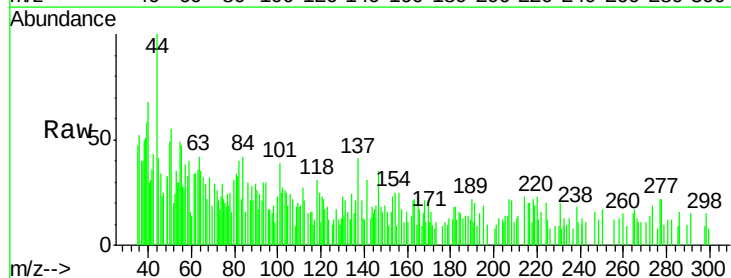
Tgt Ion: 88 Resp: 231

Ion Ratio Lower Upper

88 100

43 193.9 26.5 39.7#

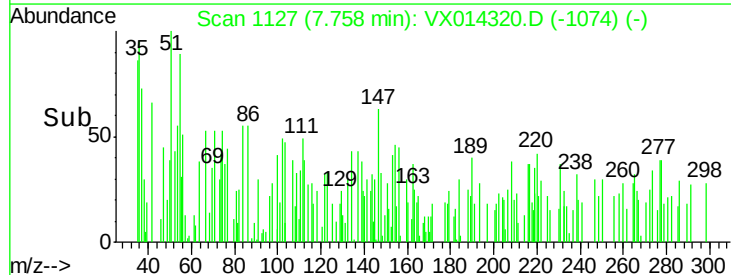
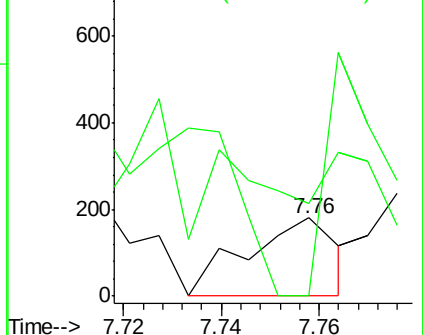
58 56.7 56.8 85.2#

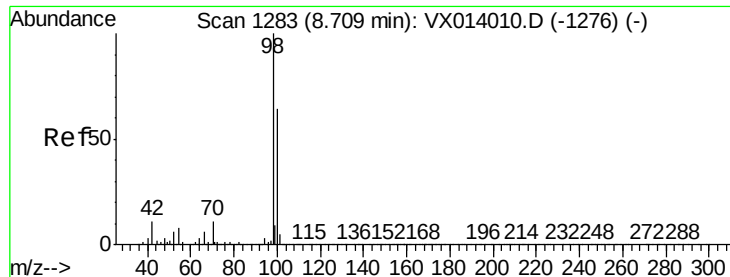


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.307 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampleId :

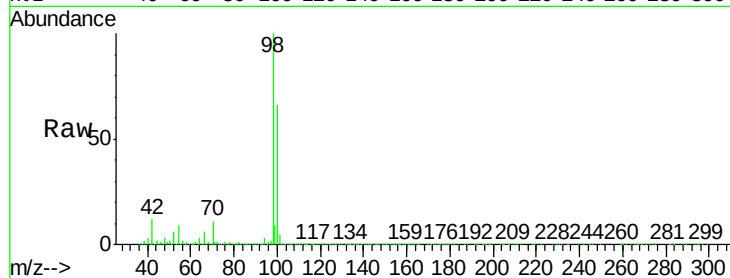
OW-4

Tgt Ion: 98 Resp: 918789

Ion Ratio Lower Upper

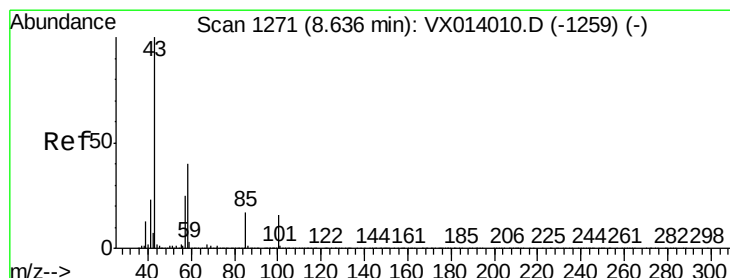
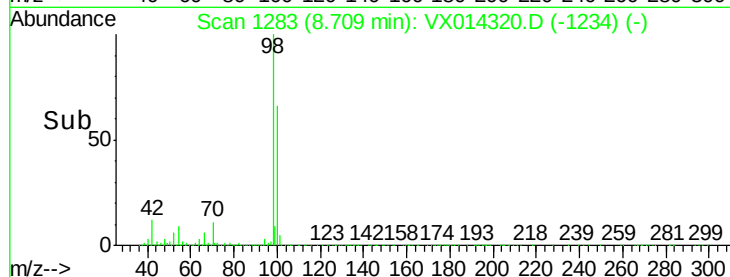
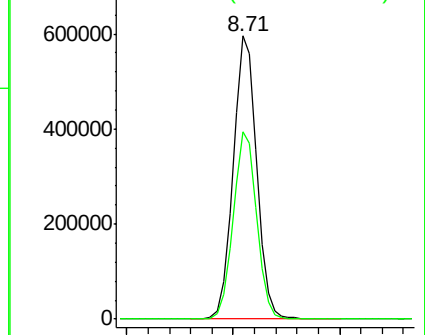
98 100

100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.520 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX014320.D

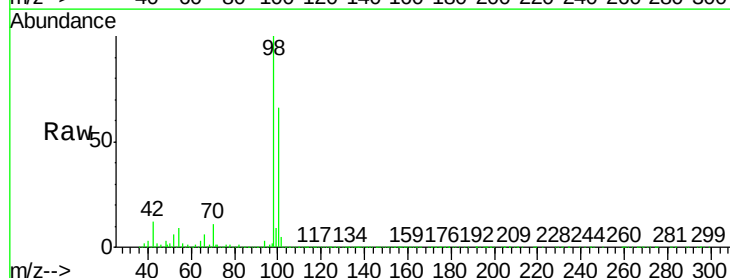
Acq: 27 Dec 2019 19:38

Tgt Ion: 43 Resp: 4223

Ion Ratio Lower Upper

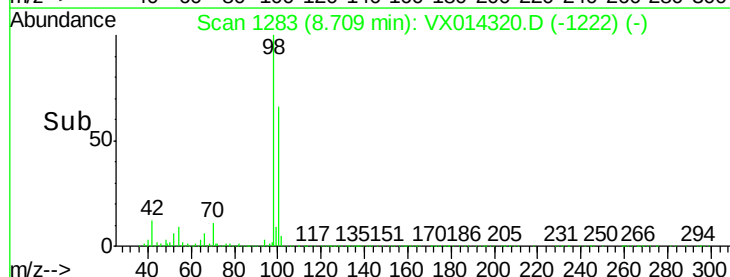
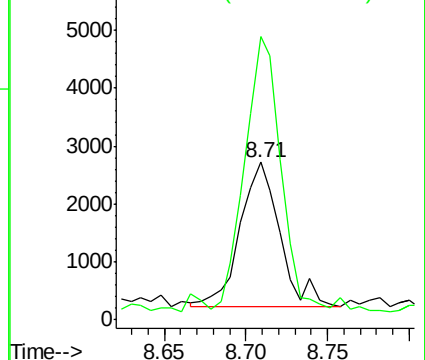
43 100

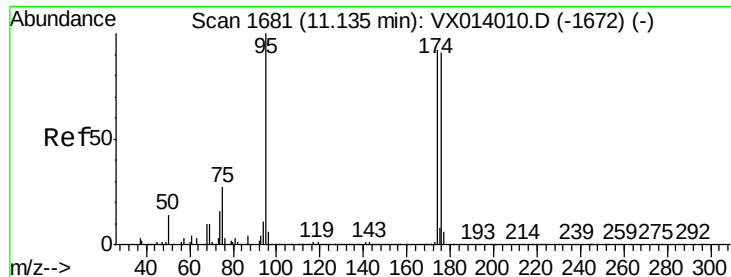
58 168.5 32.2 48.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.672 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampleId :

OW-4

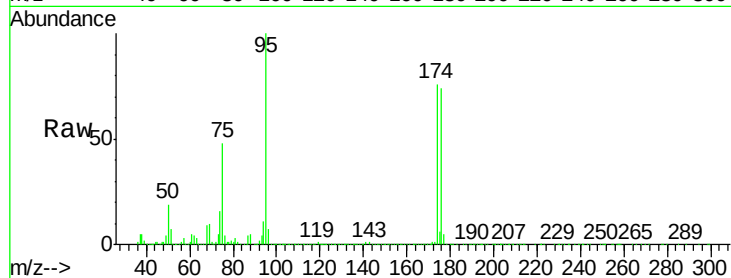
Tgt Ion: 95 Resp: 311586

Ion Ratio Lower Upper

95 100

174 86.7 0.0 175.8

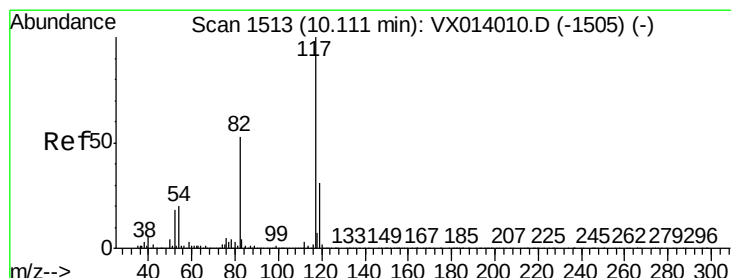
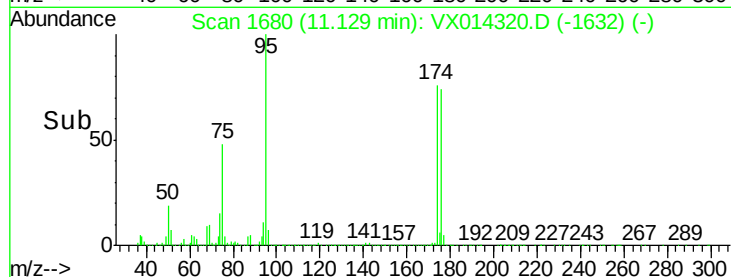
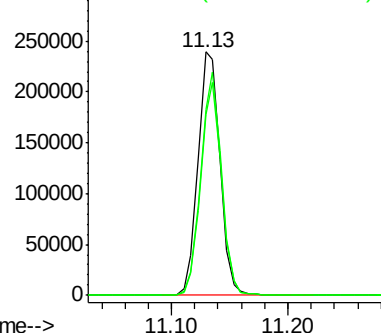
176 83.0 0.0 173.0



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# 1513

Delta R.T. 0.00 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

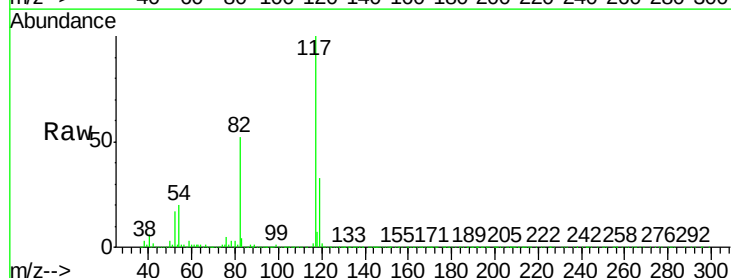
Tgt Ion: 117 Resp: 697873

Ion Ratio Lower Upper

117 100

82 52.4 42.2 63.4

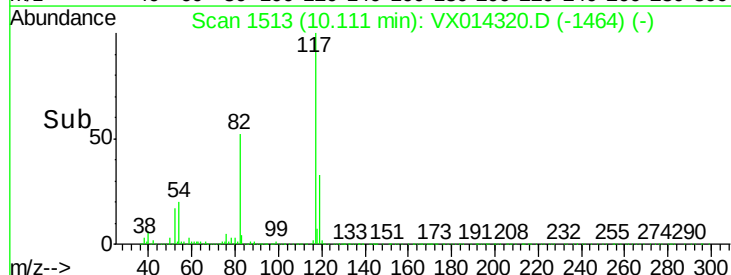
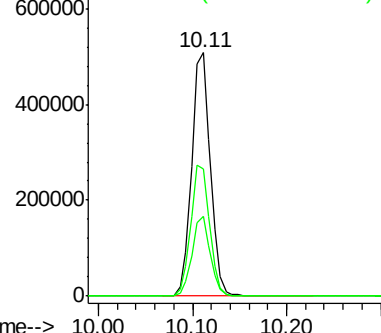
119 32.6 25.1 37.7

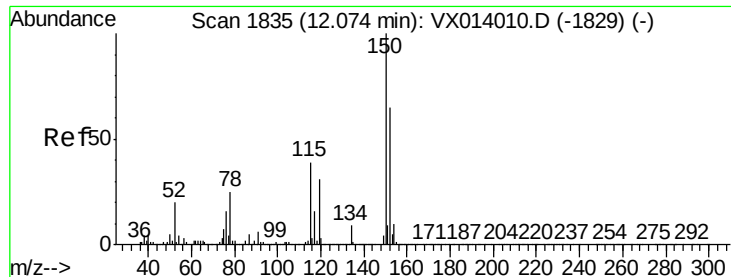


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



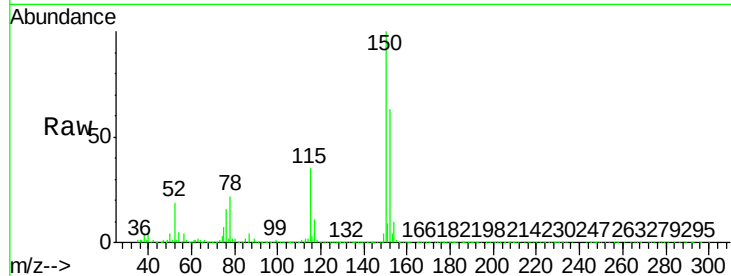


#72

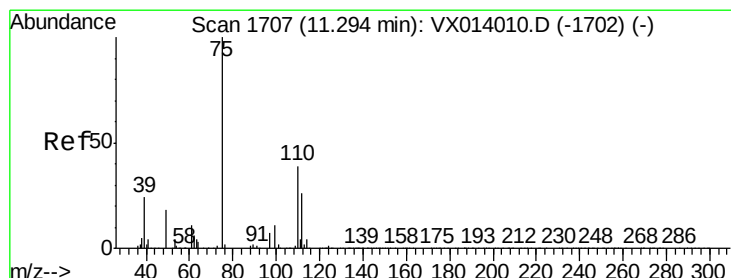
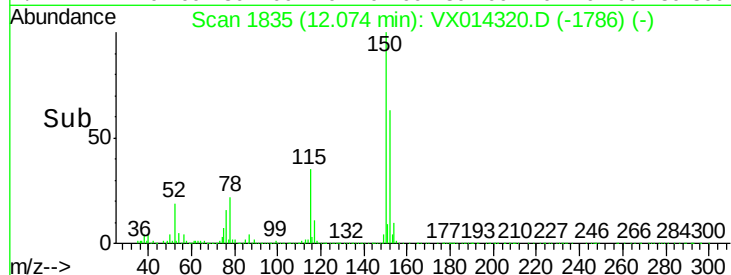
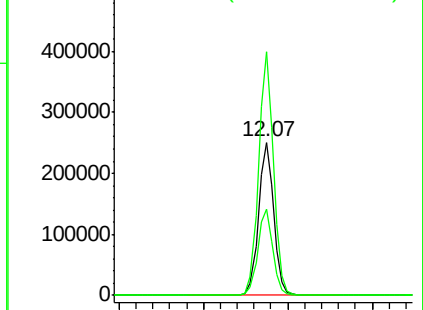
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014320.D
Acq: 27 Dec 2019 19:38

Instrument :
MSVOA_X
ClientSampleId :
OW-4

Tgt Ion: 152 Resp: 306720
Ion Ratio Lower Upper
152 100
115 55.7 38.3 114.9
150 157.1 0.0 345.4



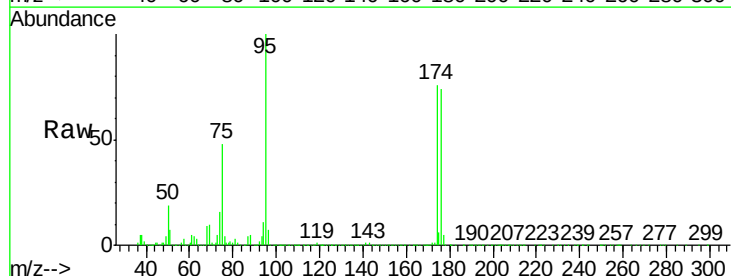
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



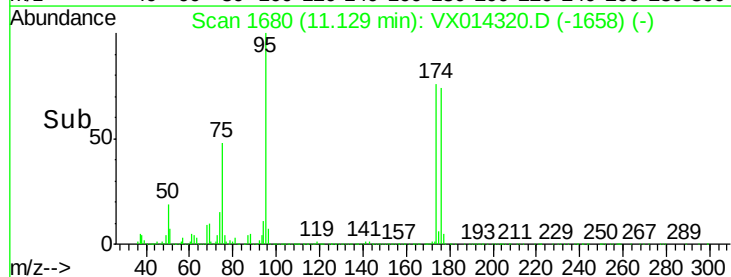
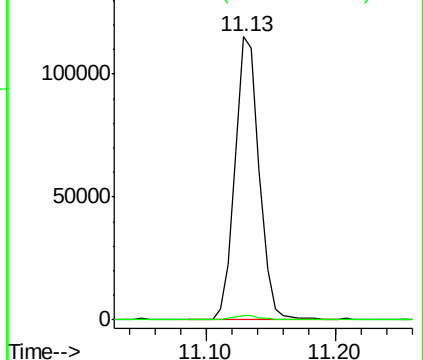
#76

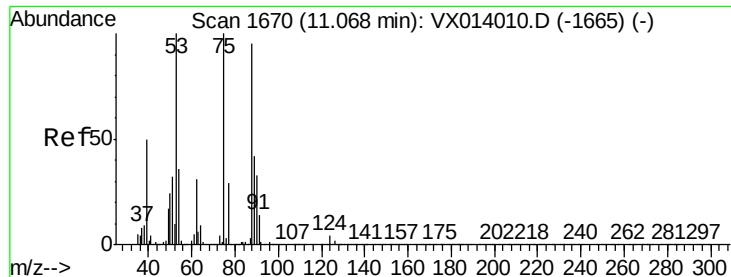
1,2,3-Trichloropropane
Concen: 22.636 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014320.D
Acq: 27 Dec 2019 19:38

Tgt Ion: 75 Resp: 150730
Ion Ratio Lower Upper
75 100
77 1.4 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: 63.891 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014320.D

Acq: 27 Dec 2019 19:38

Instrument :

MSVOA_X

ClientSampleId :

OW-4

Tgt Ion: 75 Resp: 150730

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.3 34.6 51.8#

