

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011719\
 Data File : VX007098.D
 Acq On : 17 Jan 2019 19:23
 Operator : JC/SP
 Sample : K1157-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-02-011519

Quant Time: Jan 18 05:03:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	572855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	879970	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	847258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	419587	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	304976	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
35) Dibromofluoromethane	5.50	113	268106	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	8.71	98	1066217	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
62) 4-Bromofluorobenzene	11.13	95	383193	53.29	ug/l	0.00
Spiked Amount			Recovery	=	106.58%	

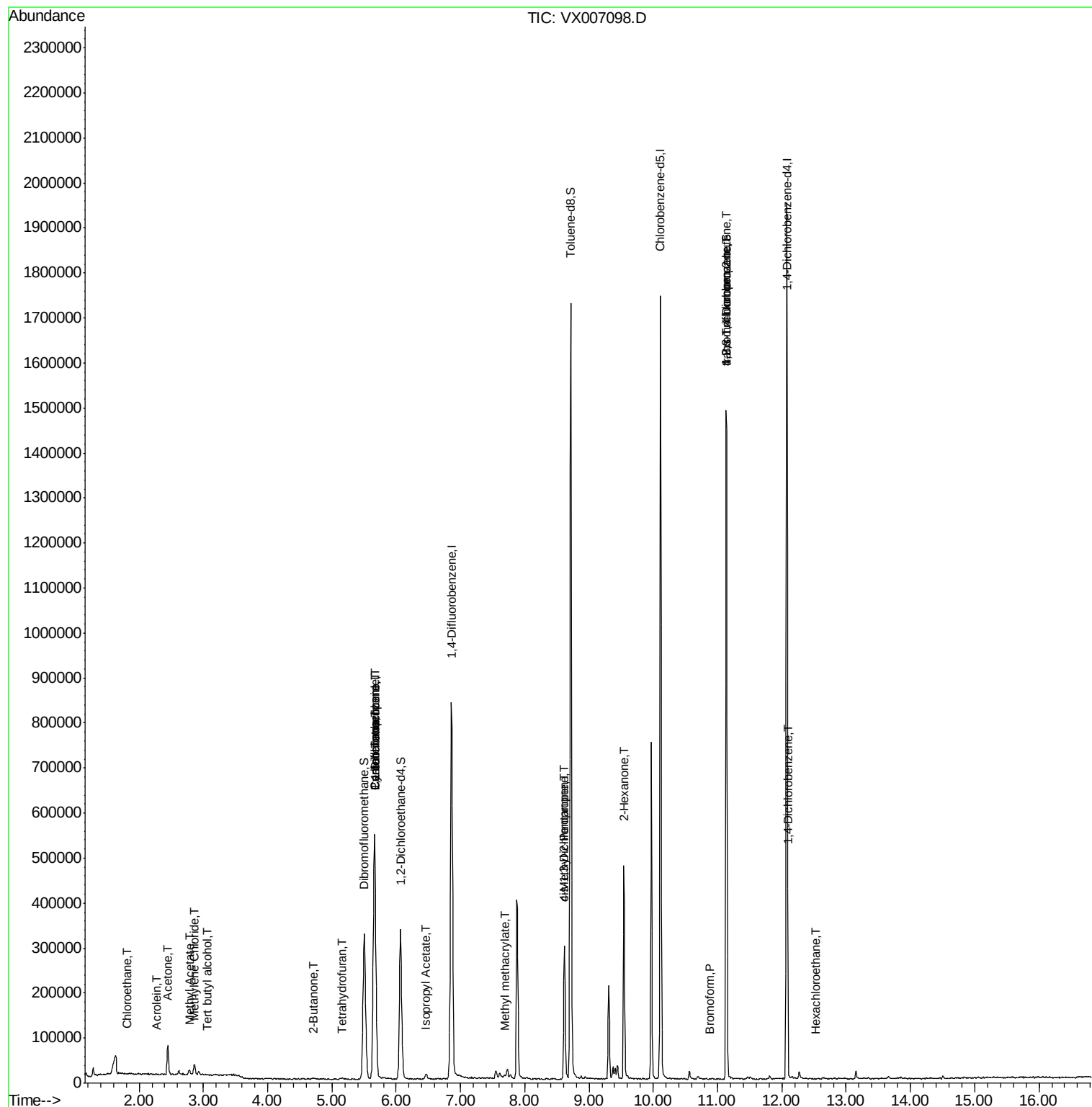
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.81	64	2295	0.558	ug/l #	71
11) Tert butyl alcohol	3.06	59	1037	0.734	ug/l #	92
13) Acrolein	2.26	56	115	3.271	ug/l #	13
16) Acetone	2.45	43	72136	24.373	ug/l	98
18) Methyl Acetate	2.79	43	14780	1.724	ug/l	93
20) Methylene Chloride	2.86	84	11878	1.562	ug/l	90
25) 2-Butanone	4.71	43	3920	0.926	ug/l #	58
29) Tetrahydrofuran	5.15	42	1293	0.470	ug/l #	37
31) Cyclohexane	5.66	56	10519	1.246	ug/l #	12
36) 1,1-Dichloropropene	5.67	75	36464	4.766	ug/l #	49
38) Carbon Tetrachloride	5.66	117	50568	6.569	ug/l #	15
43) Isopropyl Acetate	6.46	43	13811	1.067	ug/l #	91
48) Methyl methacrylate	7.69	41	9056	1.363	ug/l #	29
49) 1,4-Dioxane	7.77	88	204	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.62	43	97986	11.785	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	48102	5.595	ug/l #	66
59) 2-Hexanone	9.54	43	52371	8.265	ug/l #	53
71) Bromoform	10.87	173	91	4.742	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	184655	21.717	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	184655	64.363	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	815	0.203	ug/l #	1
90) Hexachloroethane	12.53	117	56	2.921	ug/l	90

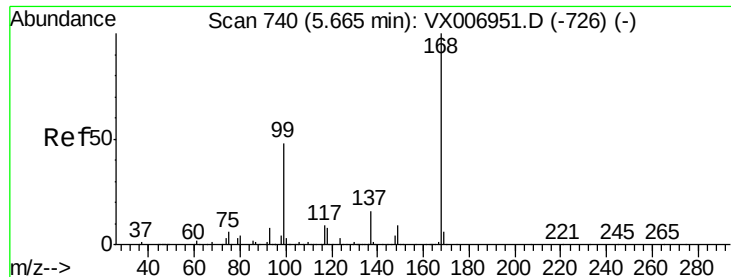
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 18 05:03:18 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
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: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

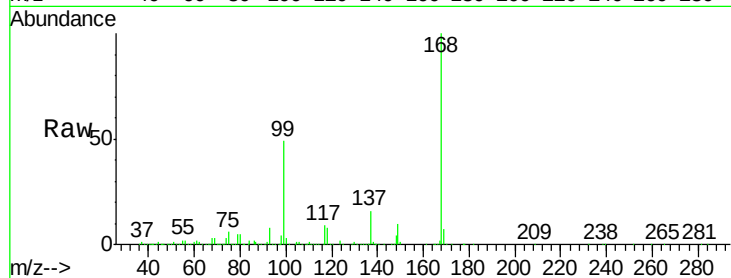
WC-02-011519

Tot Ion:168 Resp: 572855

Ion Ratio Lower Upper

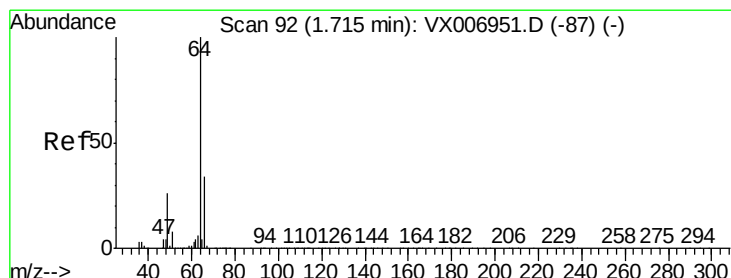
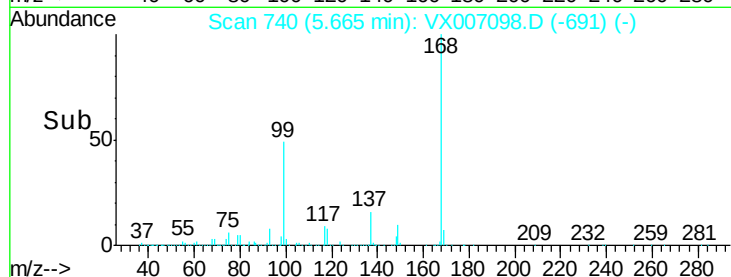
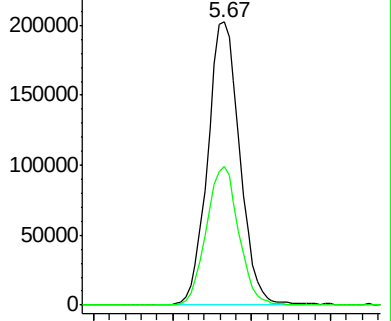
168 100

99 48.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.558 ug/l

RT: 1.81 min Scan# 108

Delta R.T. 0.10 min

Lab File: VX007098.D

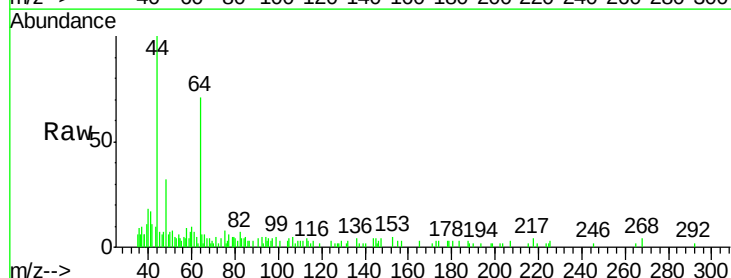
Acq: 17 Jan 2019 19:23

Tgt Ion: 64 Resp: 2295

Ion Ratio Lower Upper

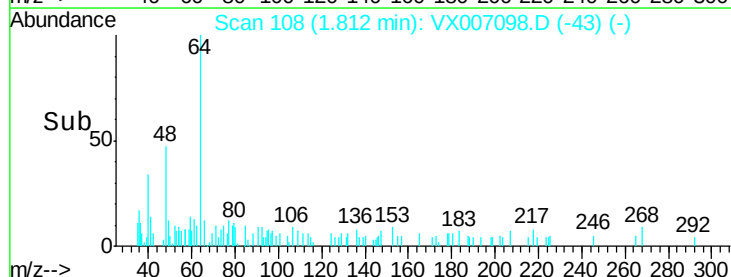
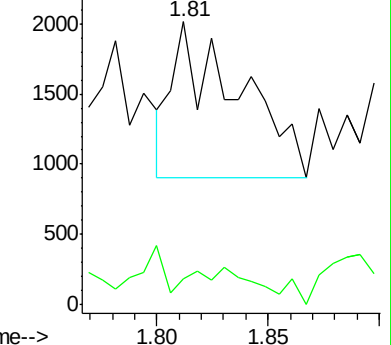
64 100

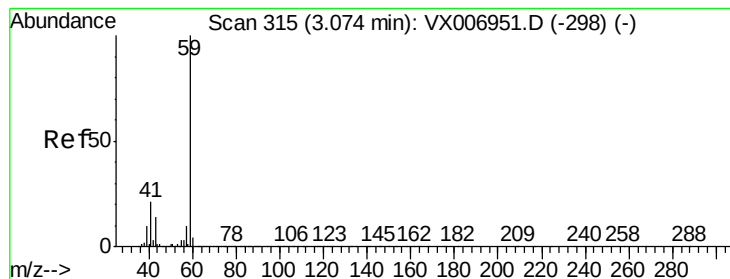
66 16.4 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



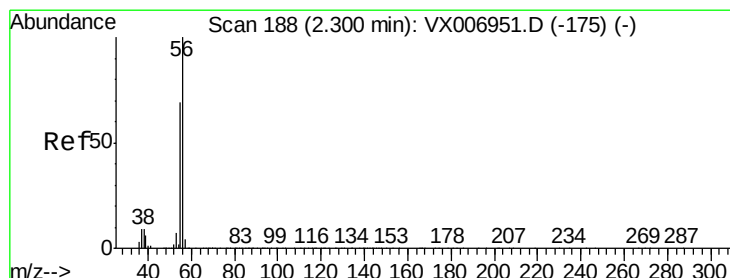
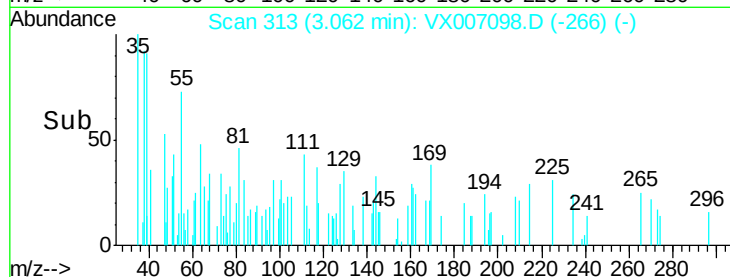
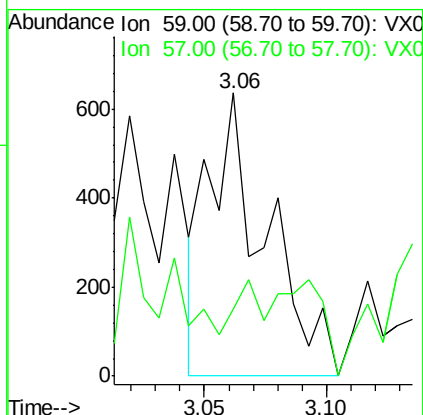
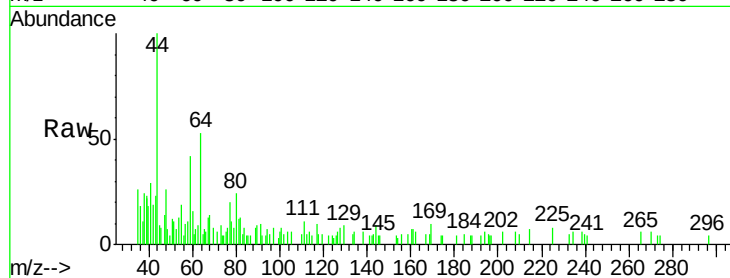


#11

Tert butyl alcohol
Concen: 0.734 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX007098.D
Acq: 17 Jan 2019 19:23

Instrument :
MSVOA_X
ClientSampled :
WC-02-011519

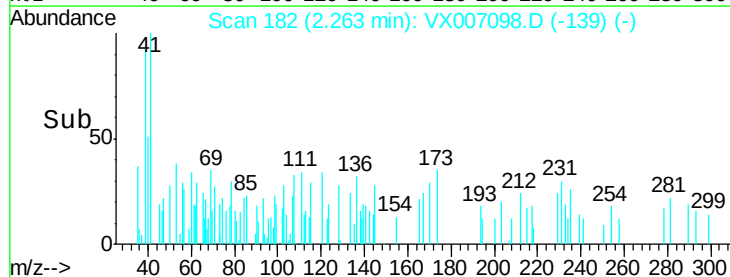
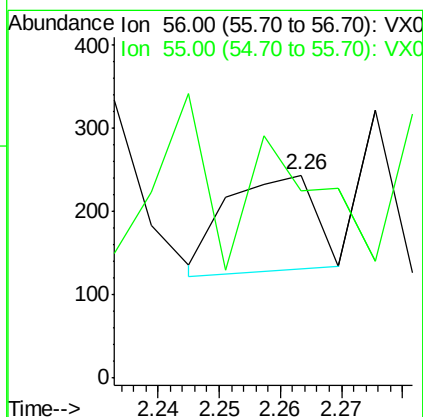
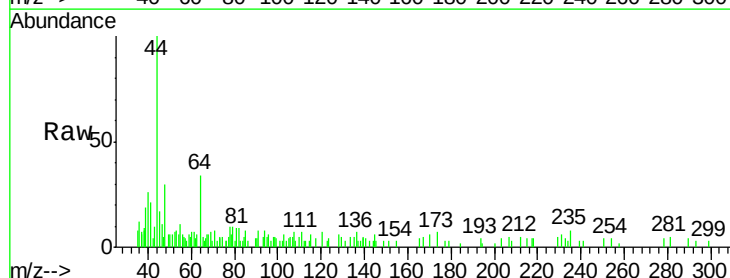
Tot Ion: 59 Resp: 1037
Ion Ratio Lower Upper
59 100
57 7.5 8.5 12.7#

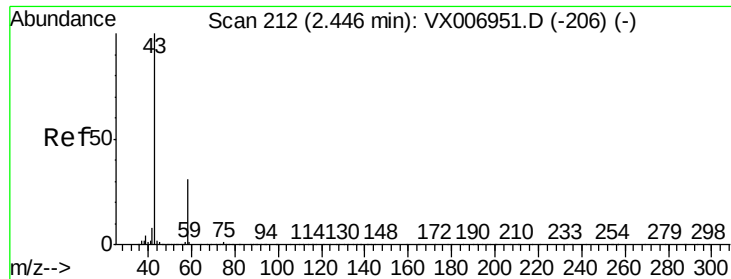


#13

Acrolein
Concen: 3.271 ug/l
RT: 2.26 min Scan# 182
Delta R.T. -0.04 min
Lab File: VX007098.D
Acq: 17 Jan 2019 19:23

Tgt Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#

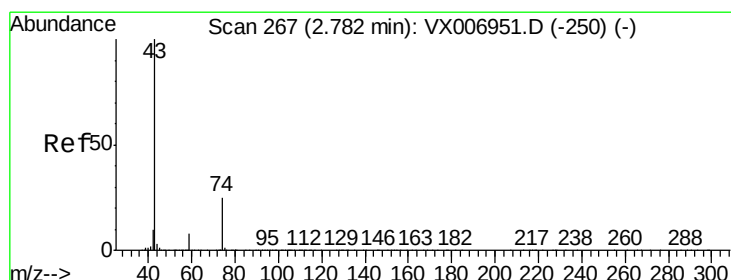
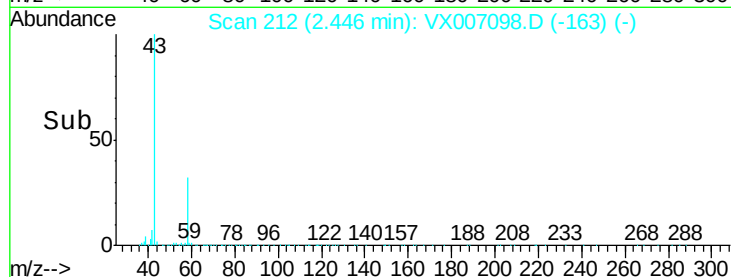
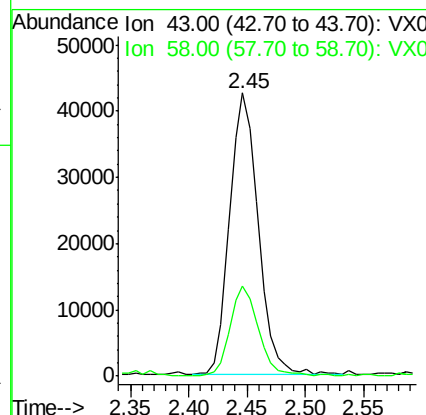
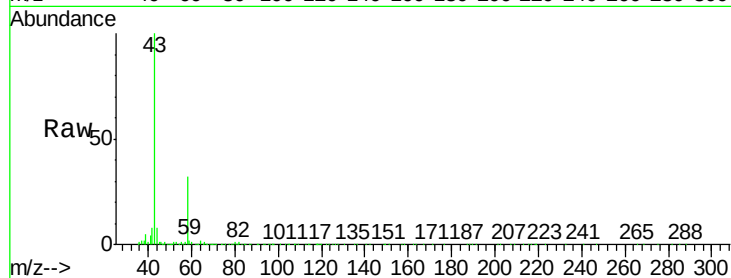




#16
Acetone
Concen: 24.373 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007098.D
Acq: 17 Jan 2019 19:23

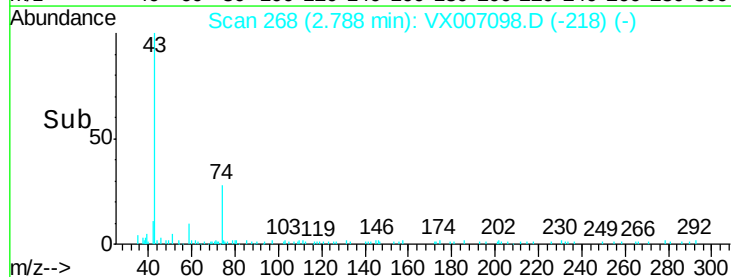
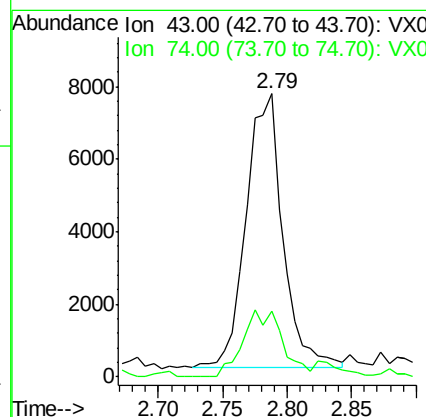
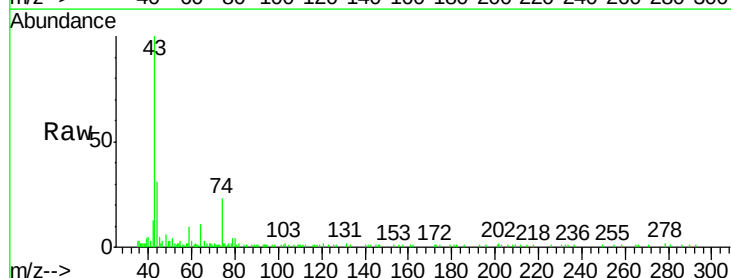
Instrument :
MSVOA_X
ClientSampleId :
WC-02-011519

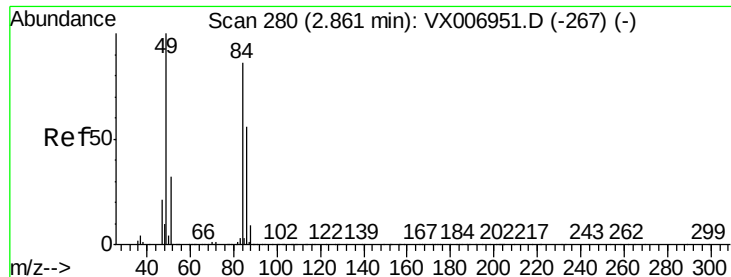
Tot Ion: 43 Resp: 72136
Ion Ratio Lower Upper
43 100
58 32.2 25.0 37.6



#18
Methyl Acetate
Concen: 1.724 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007098.D
Acq: 17 Jan 2019 19:23

Tgt Ion: 43 Resp: 14780
Ion Ratio Lower Upper
43 100
74 26.5 18.6 28.0

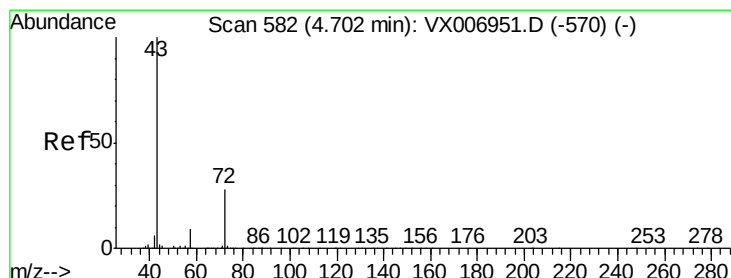
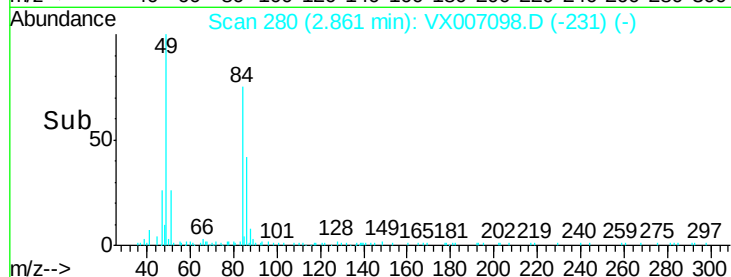
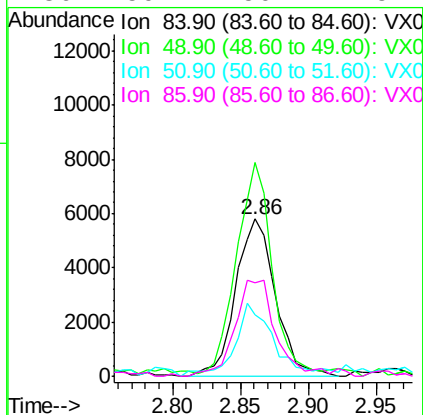
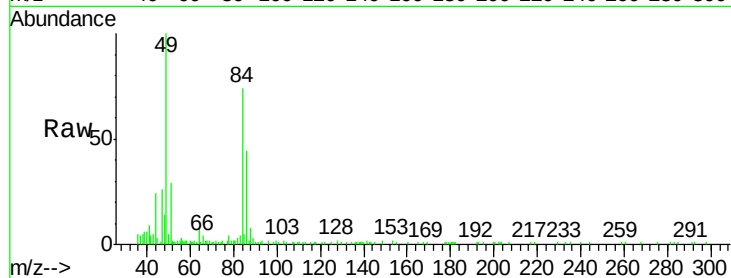




#20
Methvlene Chloride
Concen: 1.562 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007098.D
Acq: 17 Jan 2019 19:23

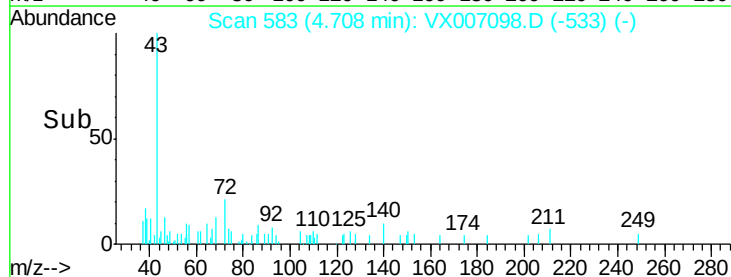
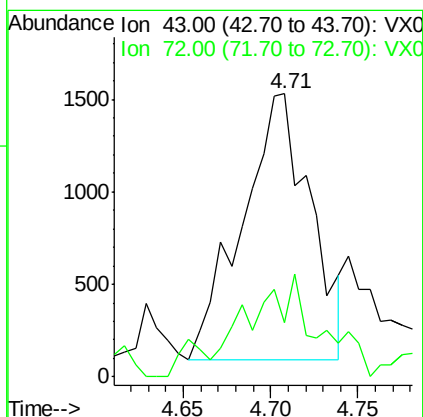
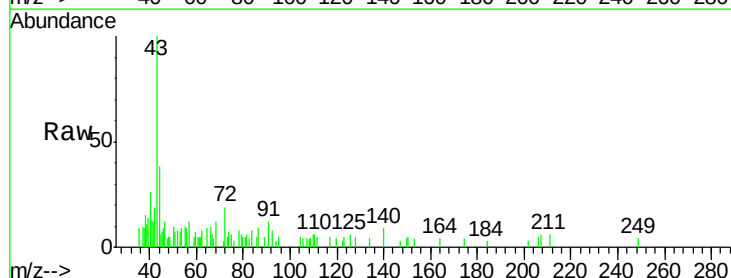
Instrument :
MSVOA_X
ClientSampleId :
WC-02-011519

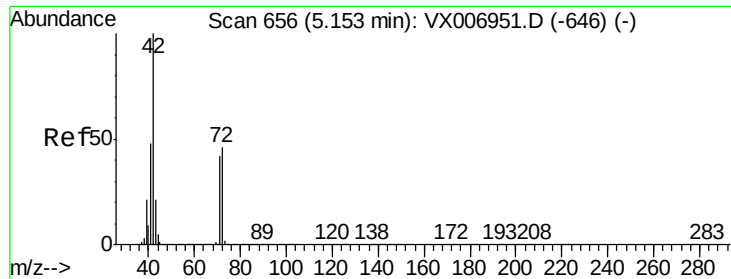
Tot Ion:	84	Resp:	11878
Ion	Ratio	Lower	Upper
84	100		
49	132.4	91.8	137.6
51	36.4	28.5	42.7
86	59.7	50.2	75.2



#25
2-Butanone
Concen: 0.926 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007098.D
Acq: 17 Jan 2019 19:23

Tgt Ion:	43	Resp:	3920
Ion	Ratio	Lower	Upper
43	100		
72	6.1	22.4	33.6#





#29

Tetrahydrofuran

Concen: 0.470 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampled :

WC-02-011519

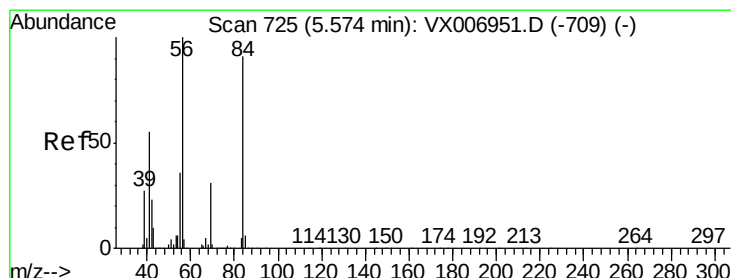
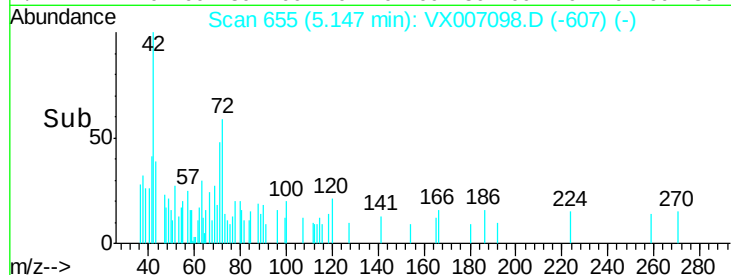
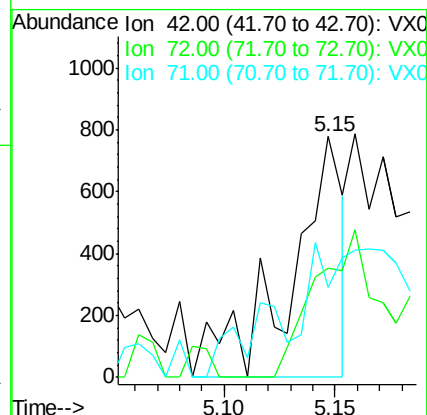
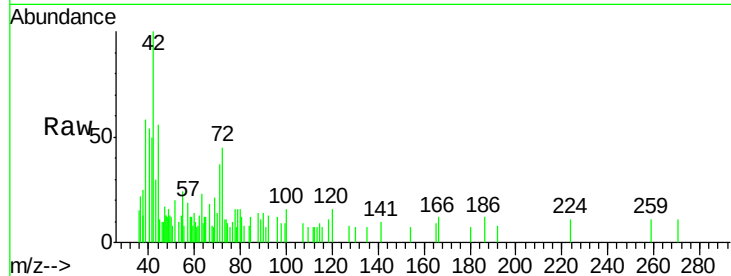
Tot Ion: 42 Resp: 1293

Ion Ratio Lower Upper

42 100

72 70.1 38.9 58.3#

71 108.4 36.2 54.4#



#31

Cyclohexane

Concen: 1.246 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

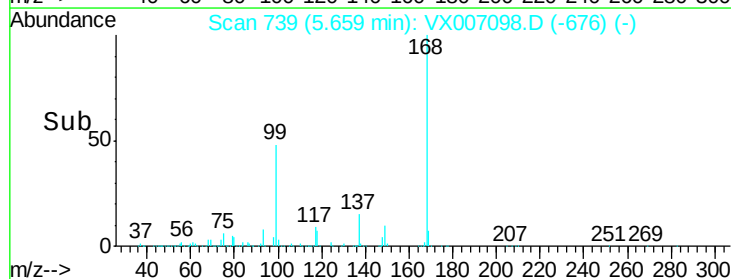
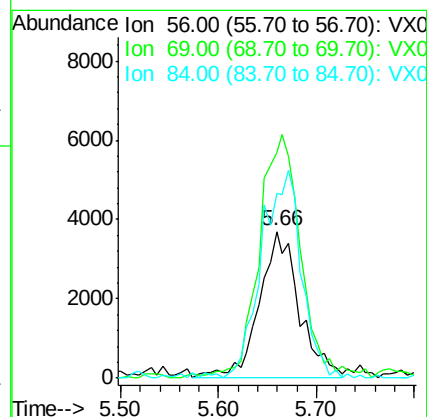
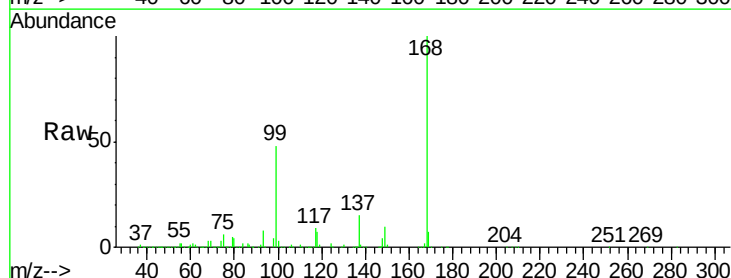
Tgt Ion: 56 Resp: 10519

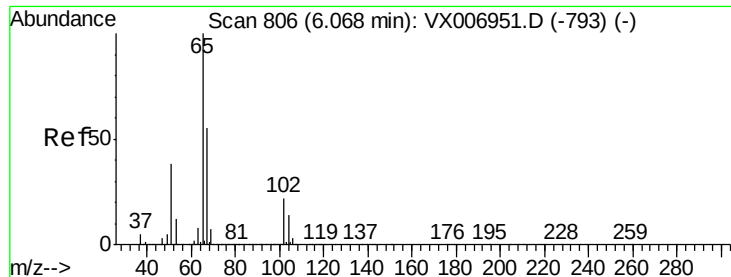
Ion Ratio Lower Upper

56 100

69 151.4 24.4 36.6#

84 126.3 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 50.941 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampled :

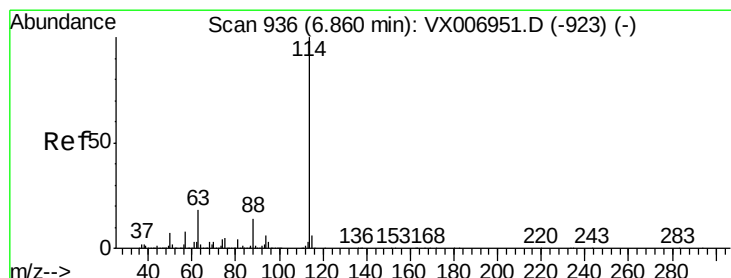
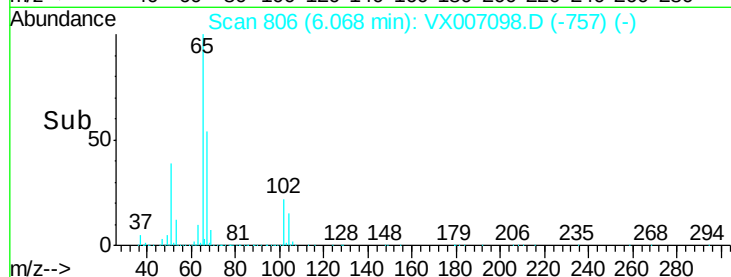
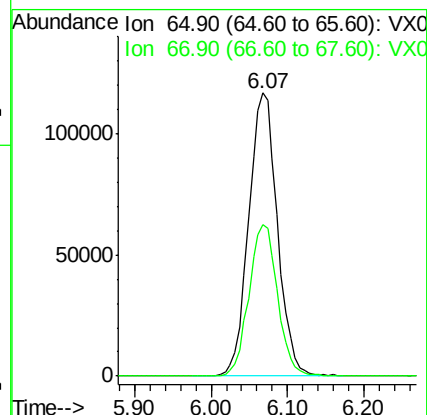
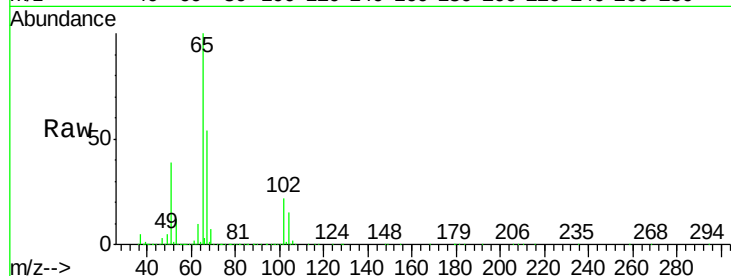
WC-02-011519

Tot Ion: 65 Resp: 304976

Ion Ratio Lower Upper

65 100

67 53.6 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

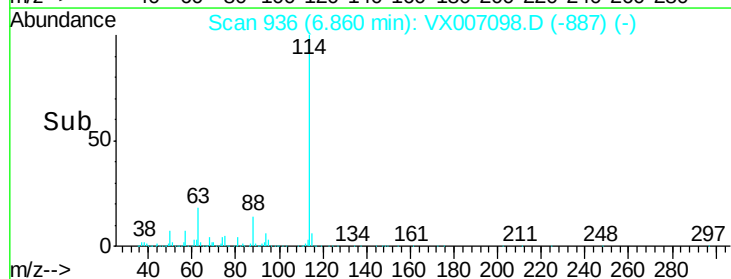
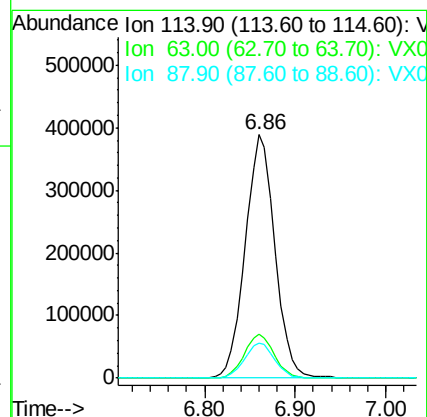
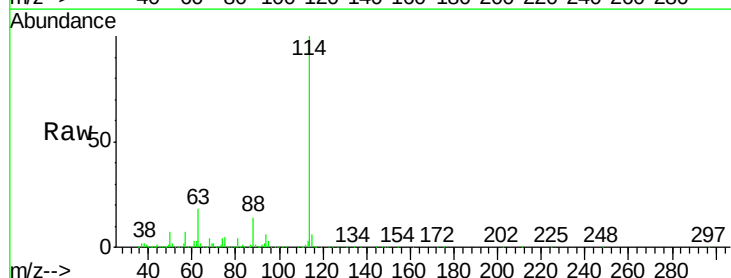
Tgt Ion: 114 Resp: 879970

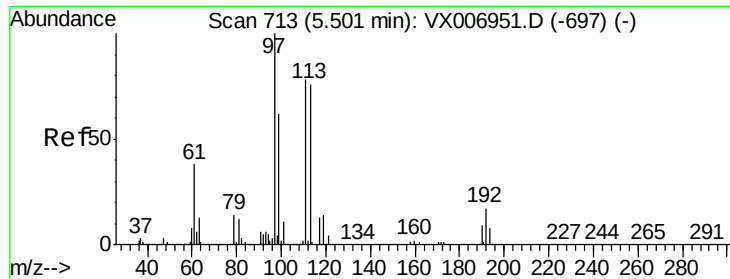
Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.8

88 14.4 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.576 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

WC-02-011519

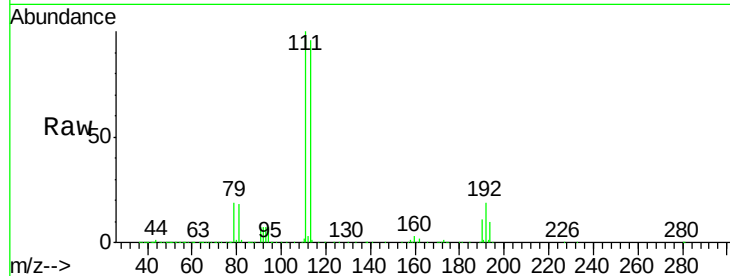
Tot Ion:113 Resp: 268106

Ion Ratio Lower Upper

113 100

111 103.7 81.6 122.4

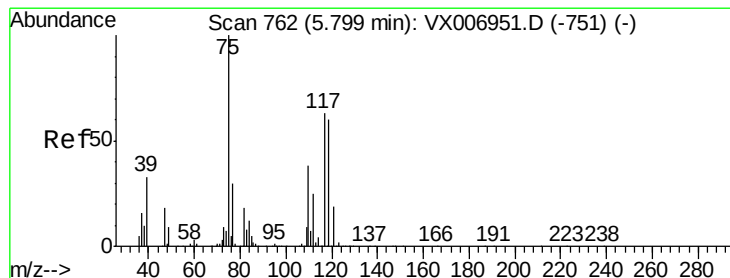
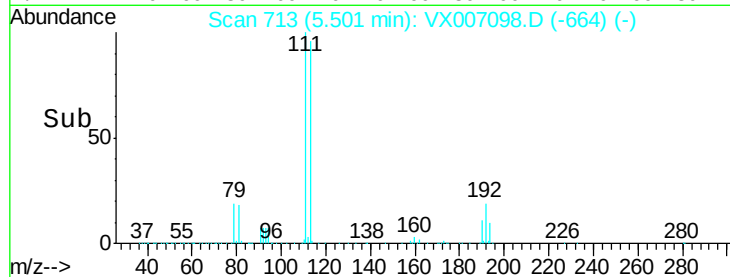
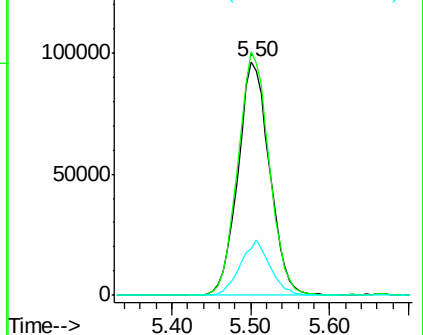
192 22.3 16.7 25.1



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: 4.766 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

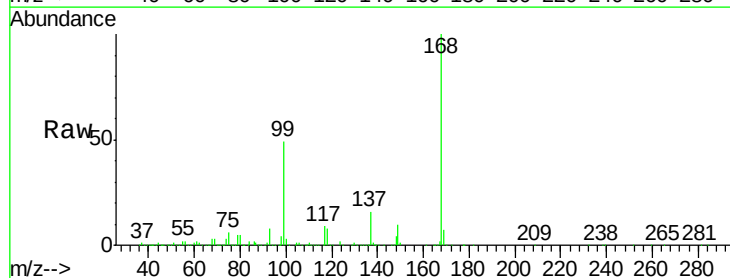
Tgt Ion: 75 Resp: 36464

Ion Ratio Lower Upper

75 100

110 10.9 20.2 60.5#

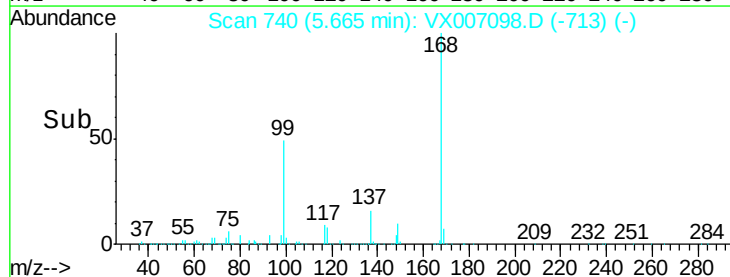
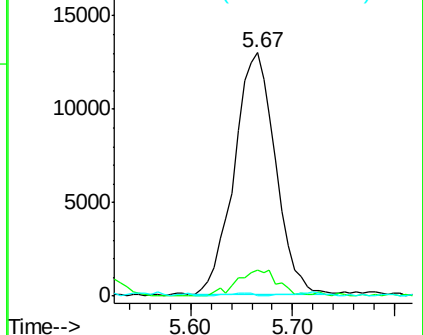
77 0.3 24.8 37.2#

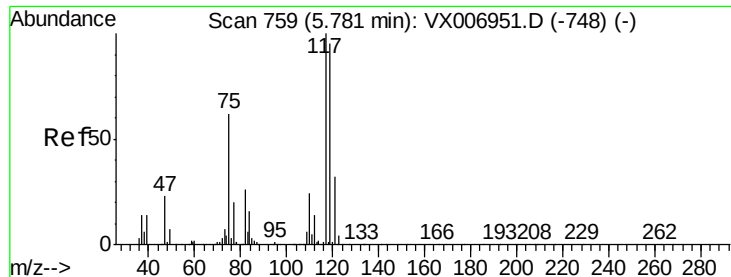


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.569 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

WC-02-011519

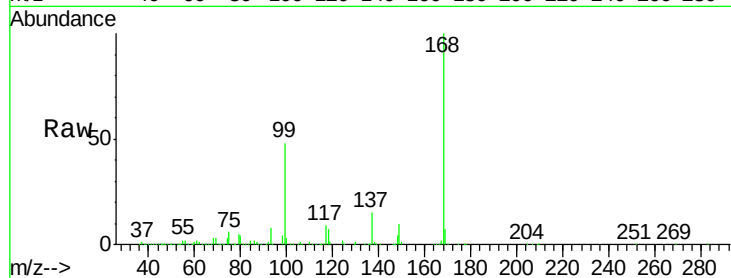
Tot Ion:117 Resp: 50568

Ion Ratio Lower Upper

117 100

119 5.7 79.4 119.2#

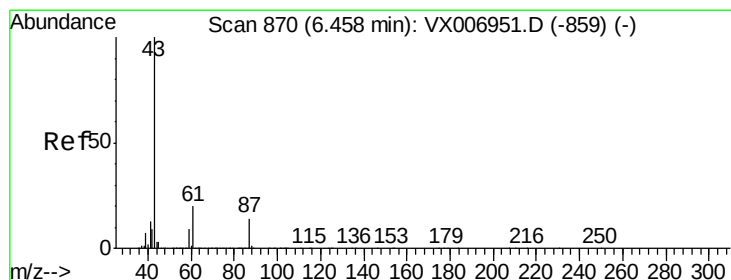
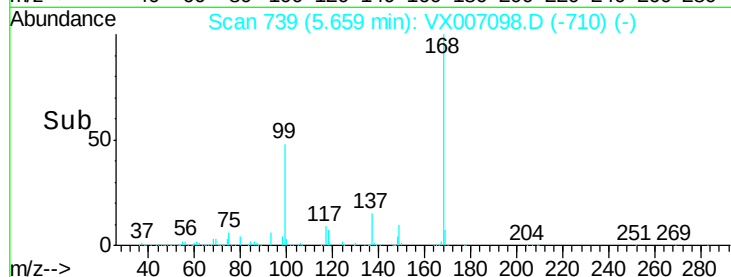
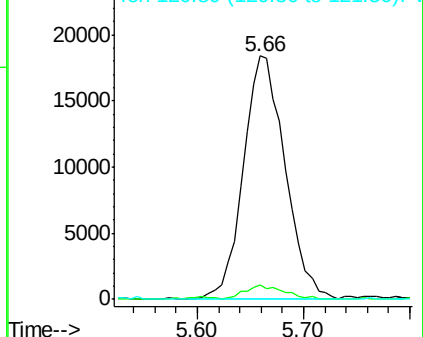
121 0.0 24.0 36.0#



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



#43

Isopropyl Acetate

Concen: 1.067 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

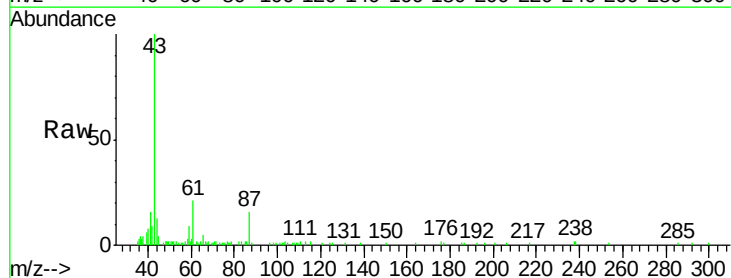
Tgt Ion: 43 Resp: 13811

Ion Ratio Lower Upper

43 100

61 24.4 16.8 25.2

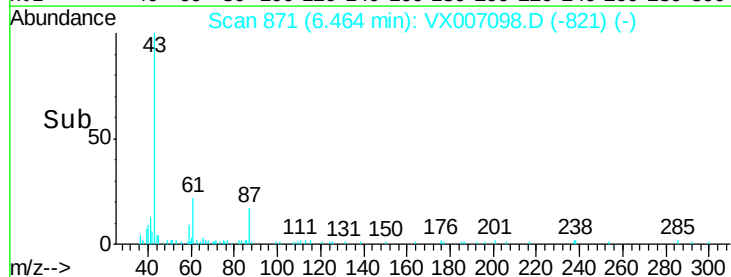
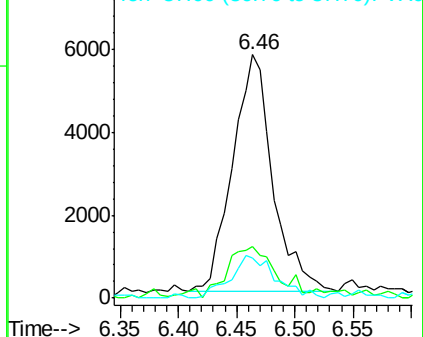
87 19.9 12.4 18.6#

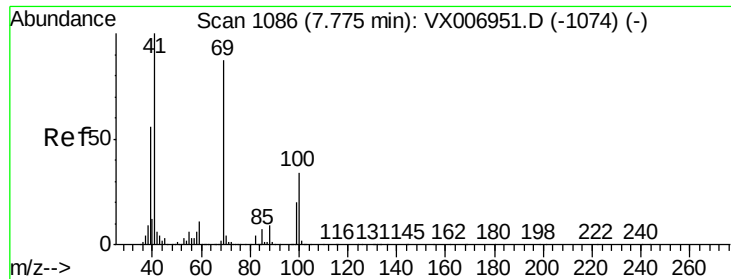


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 1.363 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

WC-02-011519

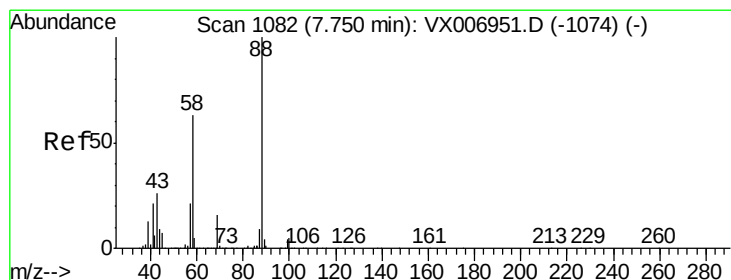
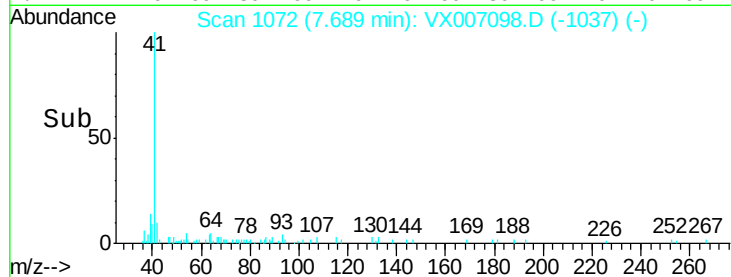
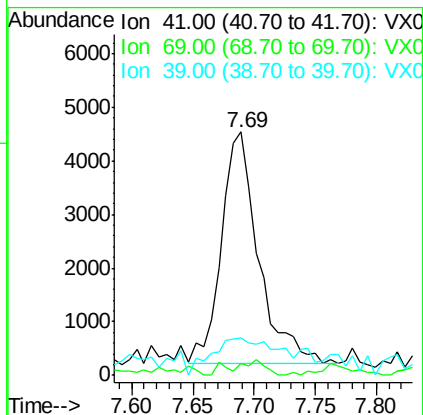
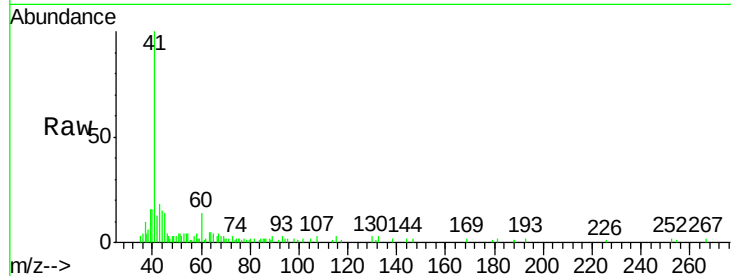
Tot Ion: 41 Resp: 9056

Ion Ratio Lower Upper

41 100

69 4.0 72.4 108.6#

39 28.8 45.8 68.8#



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

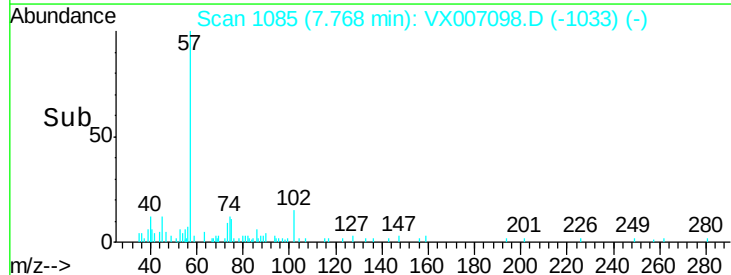
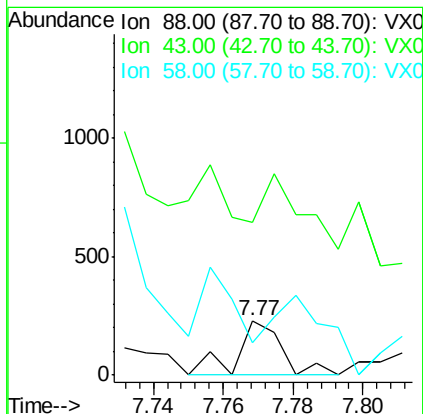
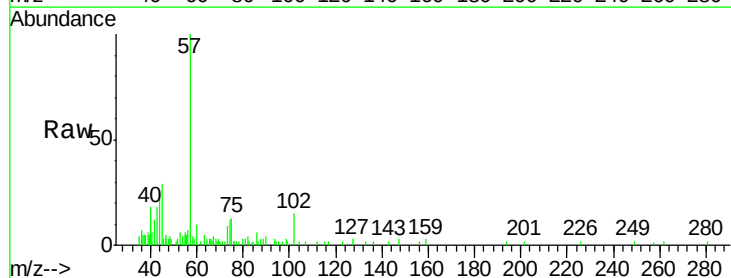
Tgt Ion: 88 Resp: 204

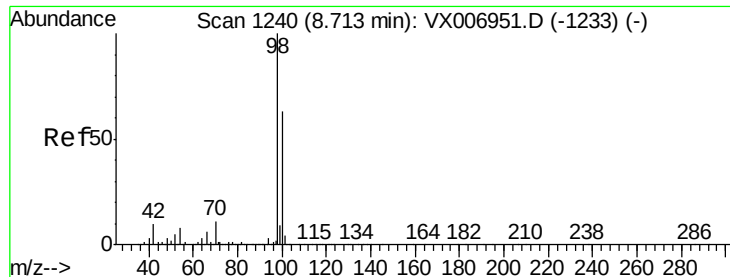
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 142.6 51.0 76.4#





#50

Toluene-d8

Concen: 51.691 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

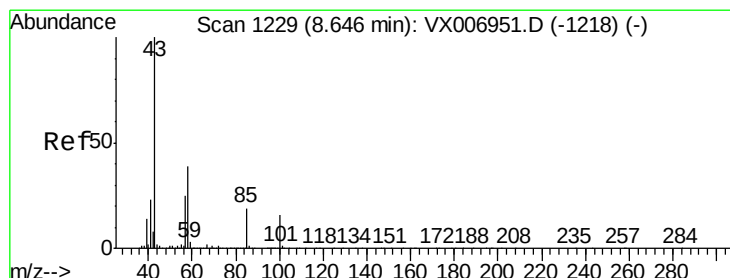
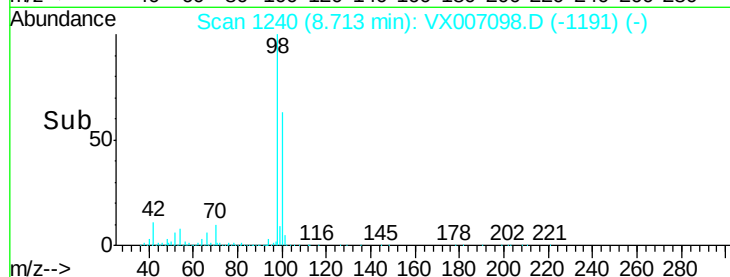
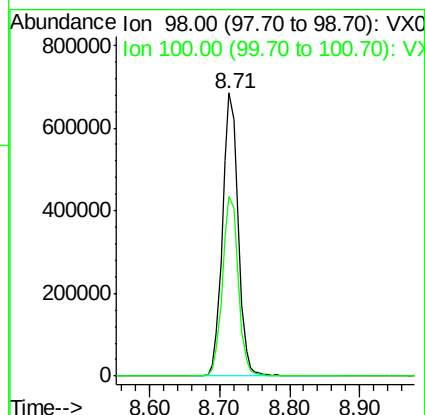
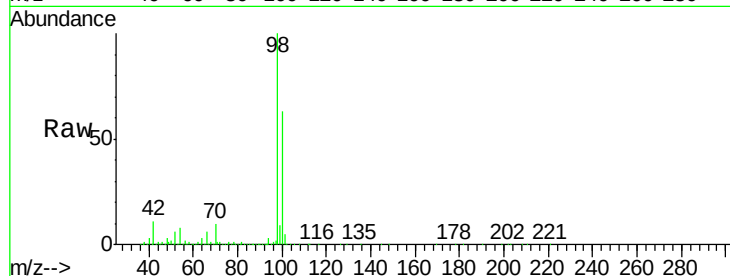
WC-02-011519

Tot Ion: 98 Resp: 1066217

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 11.785 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007098.D

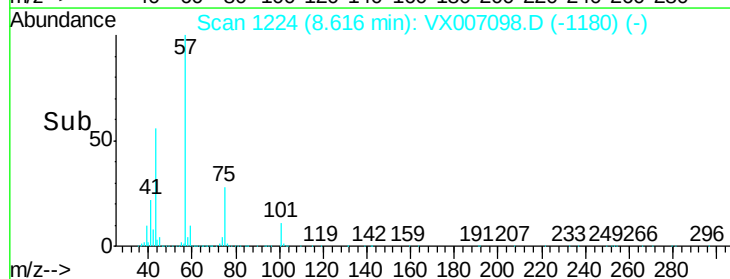
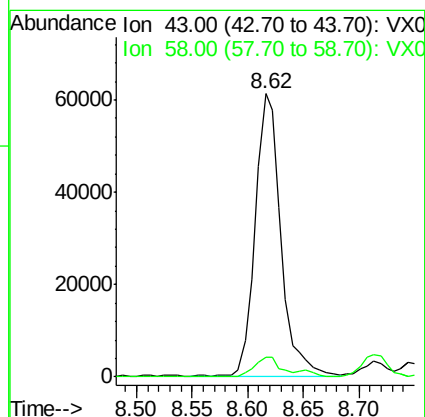
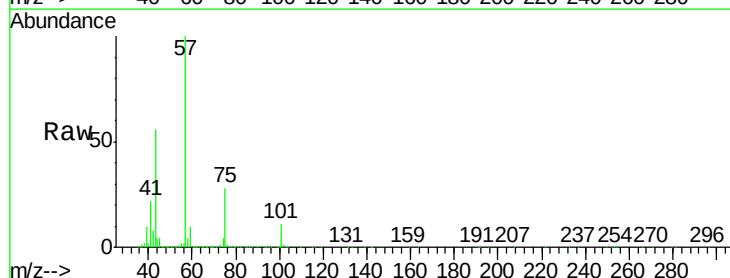
Acq: 17 Jan 2019 19:23

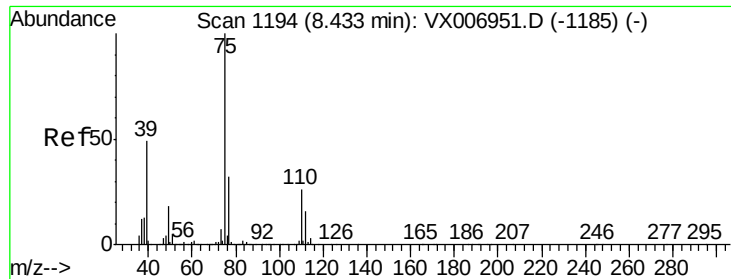
Tgt Ion: 43 Resp: 97986

Ion Ratio Lower Upper

43 100

58 8.8 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 5.595 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

WC-02-011519

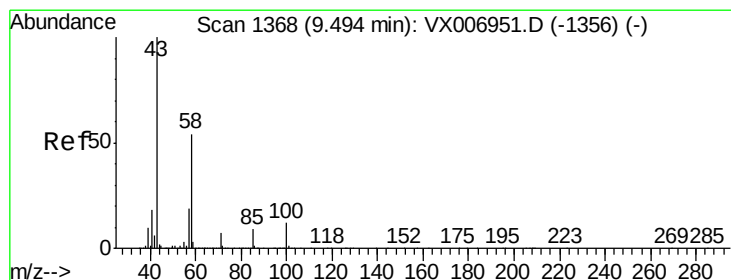
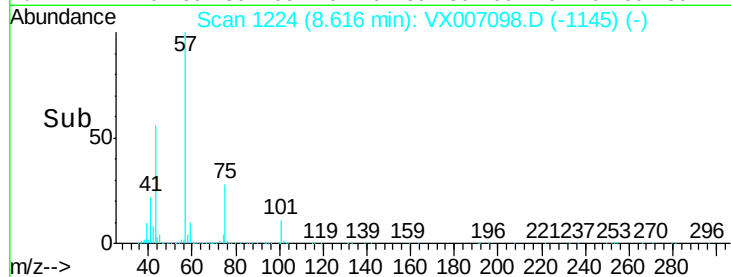
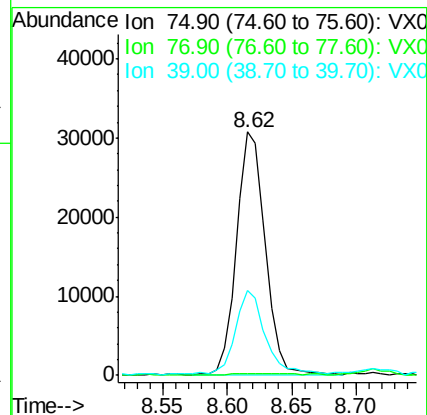
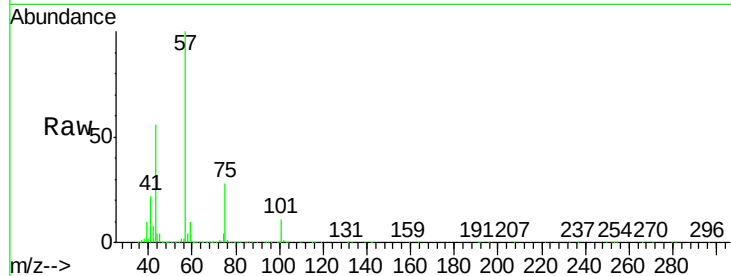
Tot Ion: 75 Resp: 48102

Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

39 34.4 36.7 55.1#



#59

2-Hexanone

Concen: 8.265 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007098.D

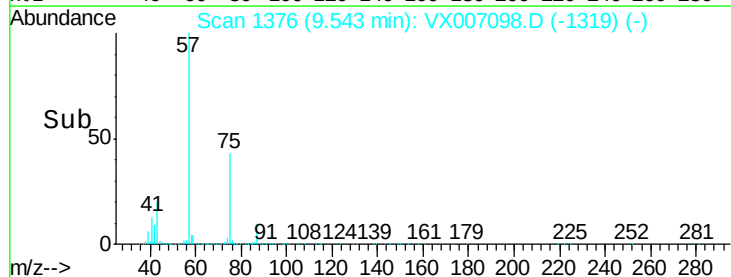
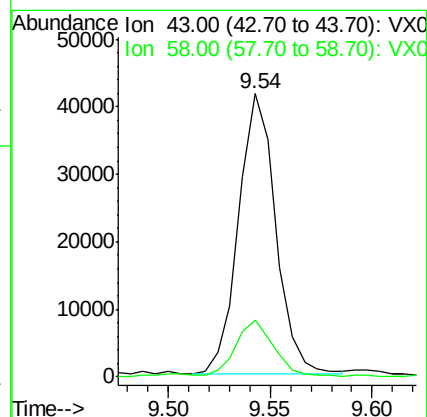
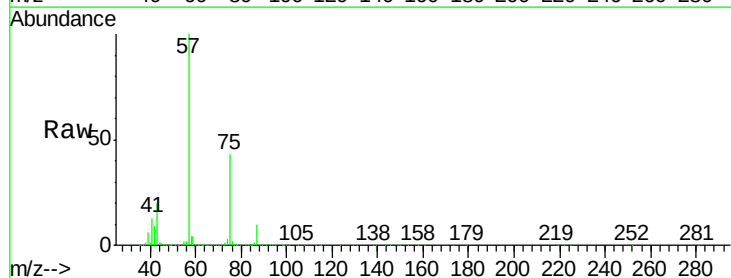
Acq: 17 Jan 2019 19:23

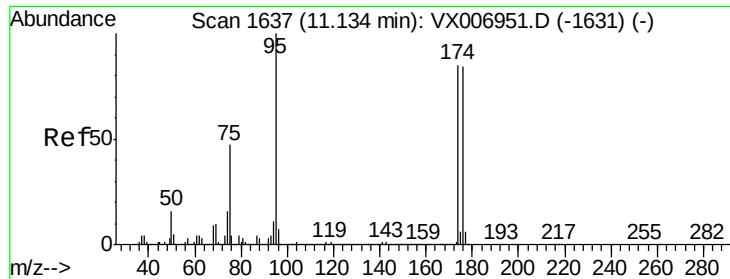
Tgt Ion: 43 Resp: 52371

Ion Ratio Lower Upper

43 100

58 21.1 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 53.288 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

WC-02-011519

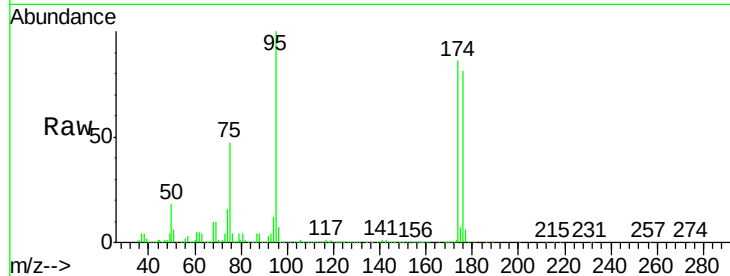
Tot Ion: 95 Resp: 383193

Ion Ratio Lower Upper

95 100

174 94.5 0.0 182.2

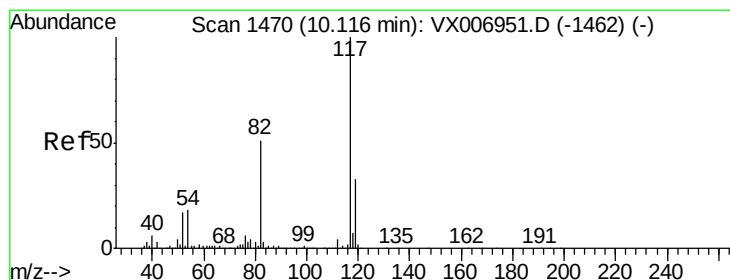
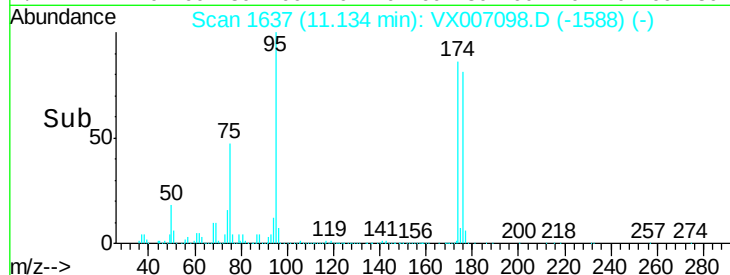
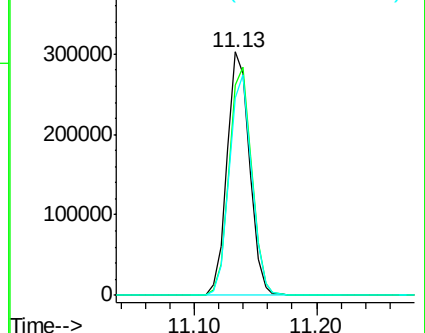
176 90.6 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

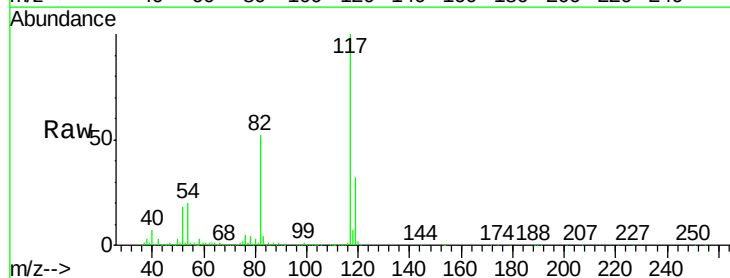
Tgt Ion: 117 Resp: 847258

Ion Ratio Lower Upper

117 100

82 52.4 41.0 61.6

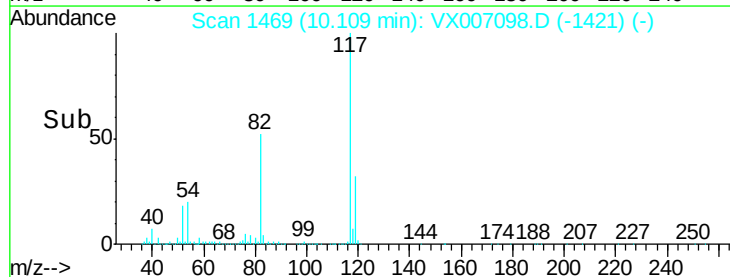
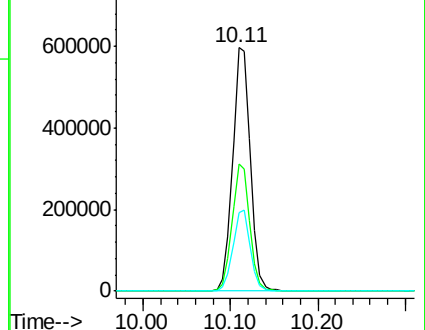
119 32.4 25.4 38.0

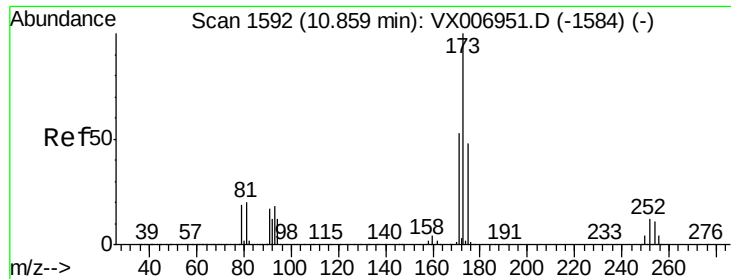


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#71

Bromoform

Concen: 4.742 ug/l

RT: 10.87 min Scan# 1593

Delta R.T. 0.01 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

WC-02-011519

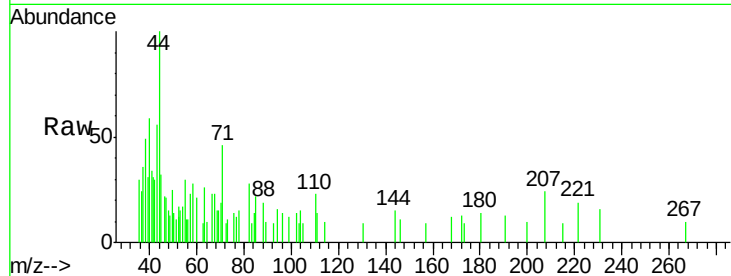
Tot Ion:173 Resp: 91

Ion Ratio Lower Upper

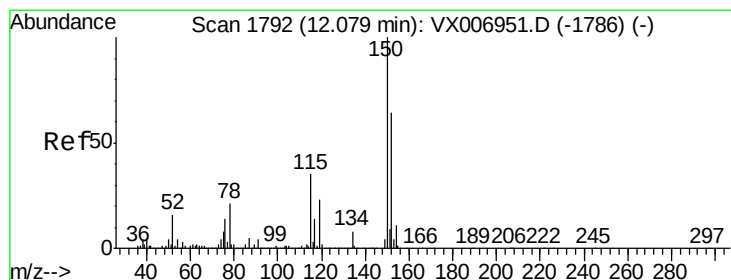
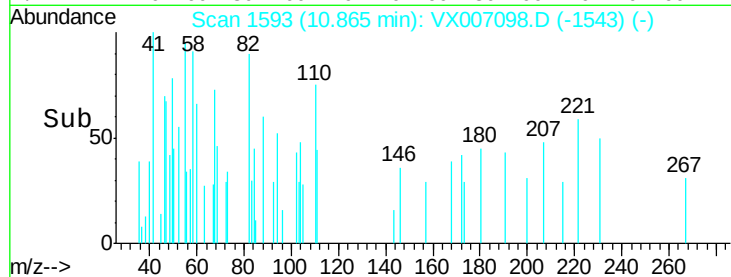
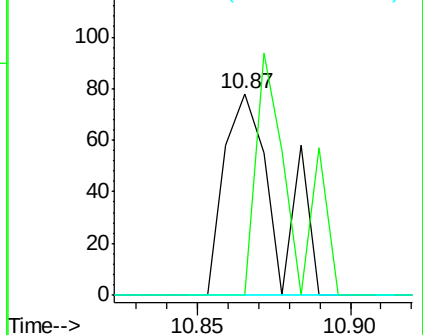
173 100

175 0.0 24.7 74.1#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

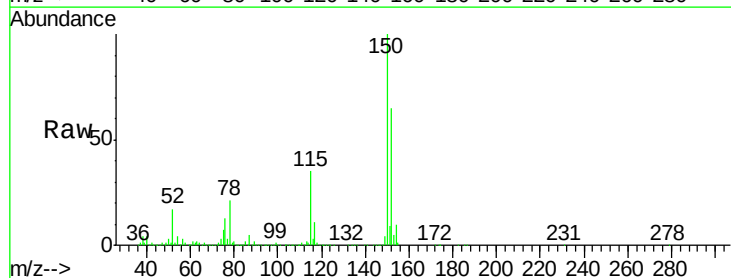
Tgt Ion:152 Resp: 419587

Ion Ratio Lower Upper

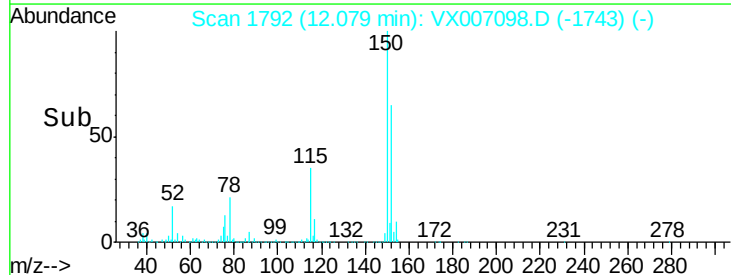
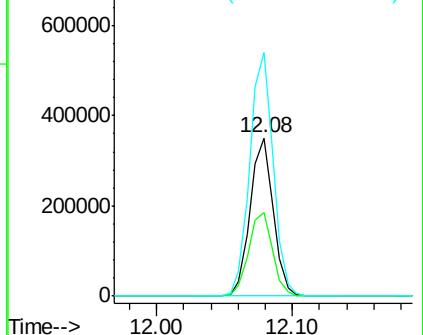
152 100

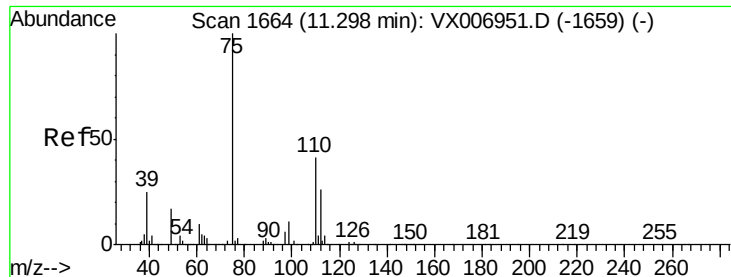
115 54.8 39.1 117.2

150 155.9 0.0 344.8



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: 21.717 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

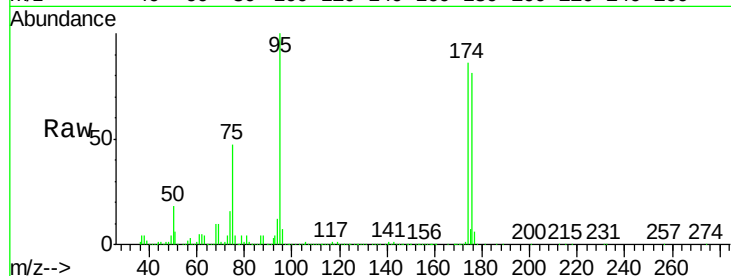
WC-02-011519

Tot Ion: 75 Resp: 184655

Ion Ratio Lower Upper

75 100

77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

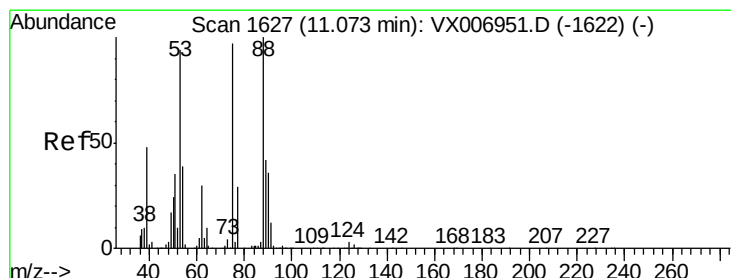
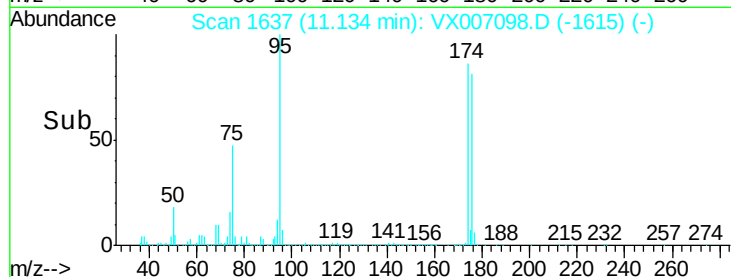
150000

100000

50000

0

Time--> 11.00 11.10 11.20 11.30



#81

trans-1,4-Dichloro-2-butene

Concen: 64.363 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007098.D

Acq: 17 Jan 2019 19:23

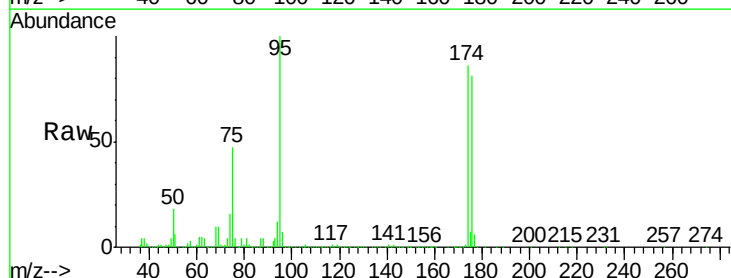
Tgt Ion: 75 Resp: 184655

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

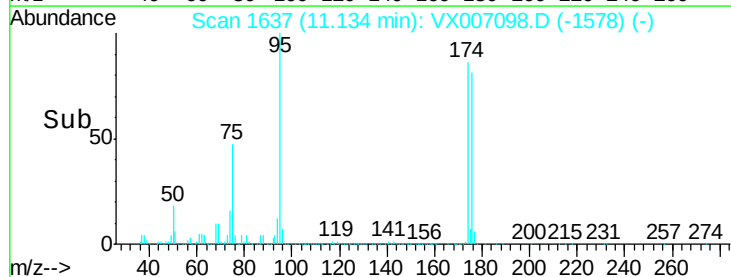
150000

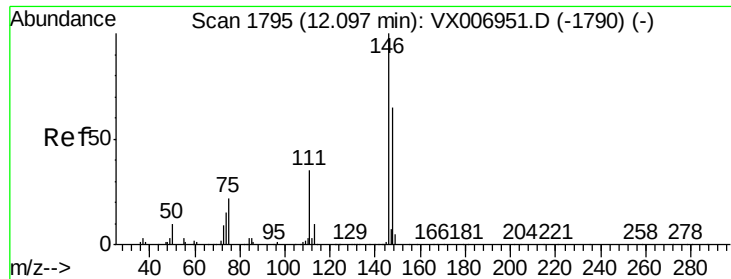
100000

50000

0

Time--> 11.00 11.10 11.20 11.30

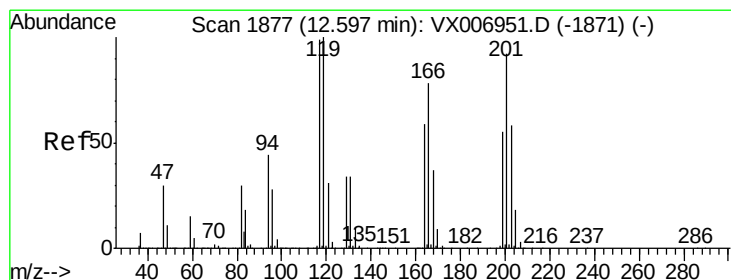
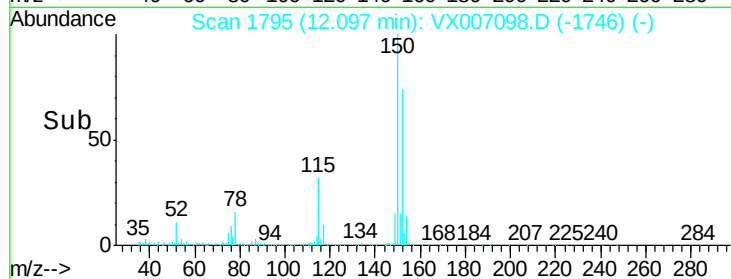
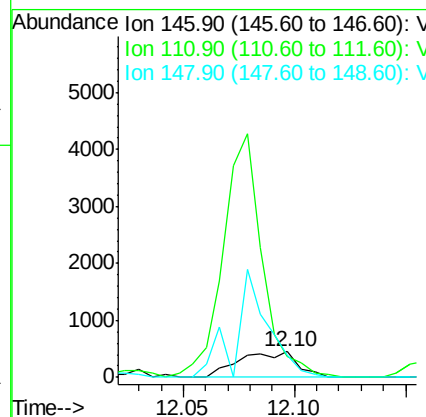
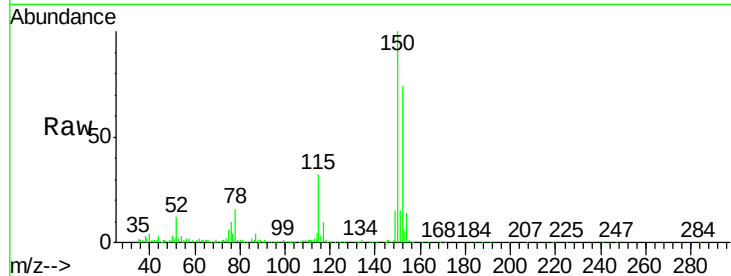




#88
 1,4-Dichlorobenzene
 Concen: 0.203 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX007098.D
 Acq: 17 Jan 2019 19:23

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-02-011519

Tot Ion:146 Resp: 815
 Ion Ratio Lower Upper
 146 100
 111 640.5 18.1 54.1#
 148 244.5 31.9 95.9#



#90
 Hexachloroethane
 Concen: 2.921 ug/l
 RT: 12.53 min Scan# 1866
 Delta R.T. -0.07 min
 Lab File: VX007098.D
 Acq: 17 Jan 2019 19:23

Tgt Ion:117 Resp: 56
 Ion Ratio Lower Upper
 117 100
 201 76.8 42.9 128.7

