

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX051118\
 Data File : VX001643.D
 Acq On : 11 May 2018 17:01
 Operator : JC/MD
 Sample : J2741-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-180501

Quant Time: May 12 03:35:34 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
 Quant Title : SW846 8260
 QLast Update : Sun May 06 07:59:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	343991	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	299733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	161703	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	207539	56.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.48%	
35) Dibromofluoromethane	5.51	113	165254	54.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.02%	
50) Toluene-d8	8.72	98	581875	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
62) 4-Bromofluorobenzene	11.15	95	190419	44.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.82%	

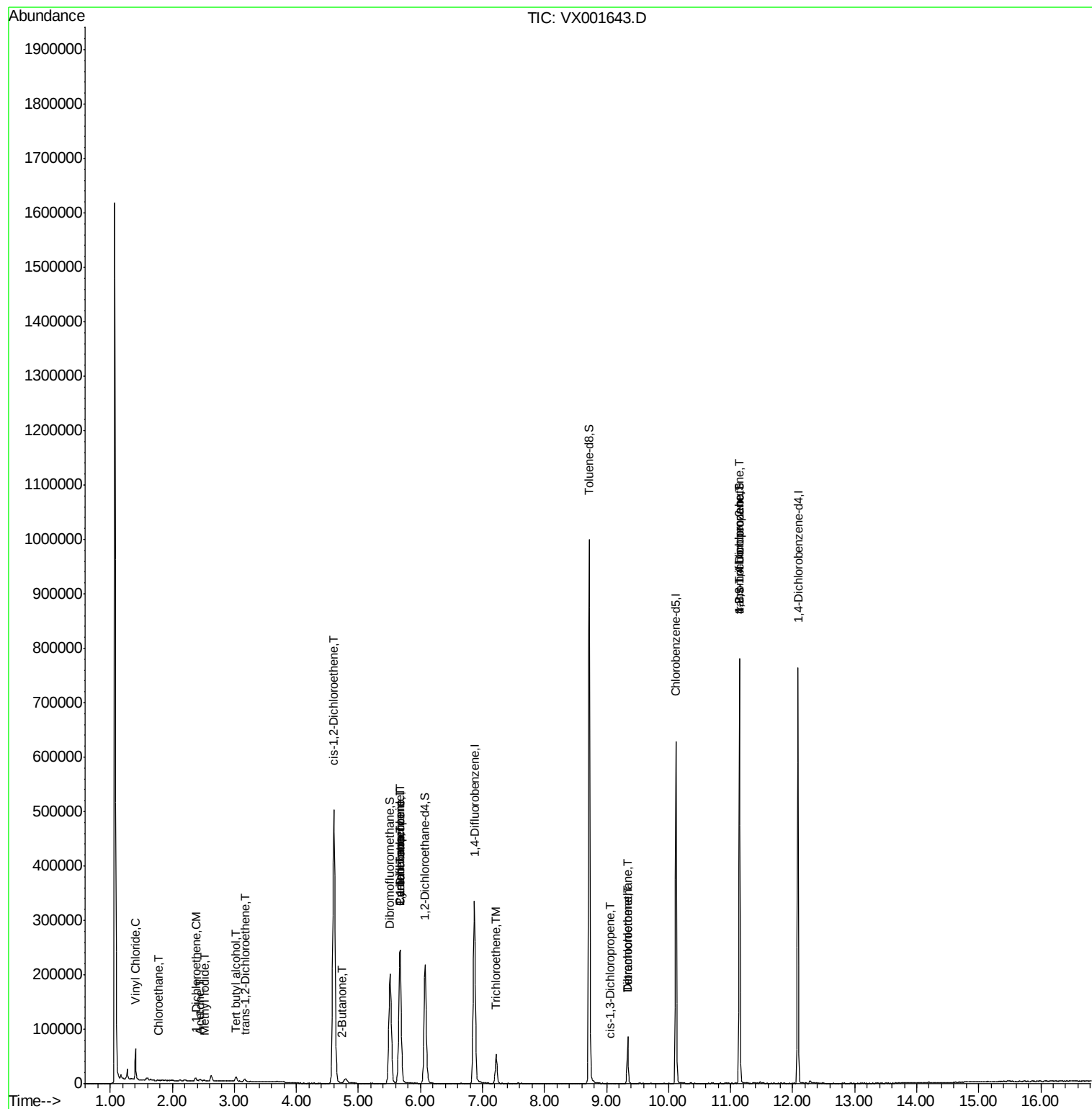
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	35615	10.14	ug/l	95
5) Bromomethane	1.66	94	1456	Below Cal		99
6) Chloroethane	1.79	64	593	0.26	ug/l #	43
10) Methyl Iodide	2.51	142	1240	0.28	ug/l #	89
11) Tert butyl alcohol	3.03	59	4700	6.04	ug/l #	83
12) 1,1-Dichloroethene	2.38	96	1992	0.70	ug/l #	87
13) Acrolein	2.31	56	45	Below Cal	#	11
16) Acetone	2.45	43	2014	1.20	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	1918	0.60	ug/l #	81
25) 2-Butanone	4.73	43	679	0.28	ug/l #	49
27) cis-1,2-Dichloroethene	4.60	96	320326	94.87	ug/l	87
31) Cyclohexane	5.67	56	4349	0.92	ug/l #	6
36) 1,1-Dichloropropene	5.67	75	16249	3.71	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21973	4.71	ug/l #	16
44) Trichloroethene	7.22	130	20602	5.27	ug/l	99
54) cis-1,3-Dichloropropene	9.05	75	18	2.27	ug/l #	5
60) Dibromochloromethane	9.34	129	14975	4.34	ug/l #	11
64) Tetrachloroethene	9.34	164	18267	4.37	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	94867	28.93	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	94867	88.61	ug/l #	7

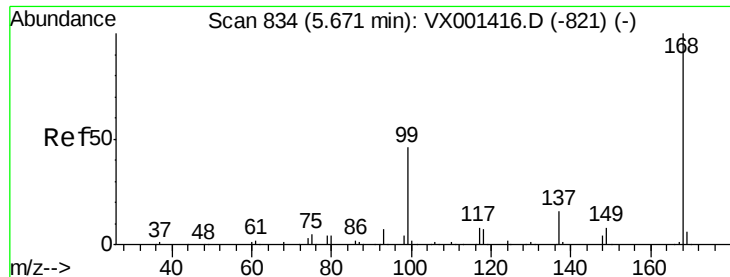
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

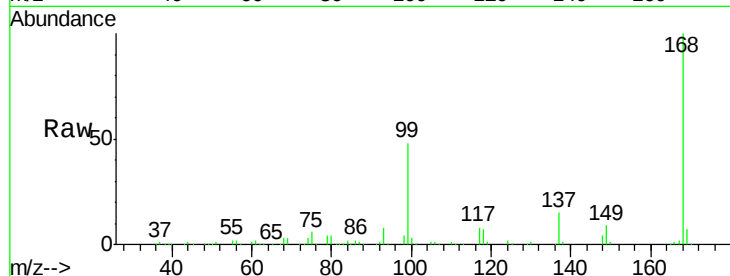
ST008MW151-180501

Tgt Ion: 168 Resp: 256733

Ion Ratio Lower Upper

168 100

99 48.4 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

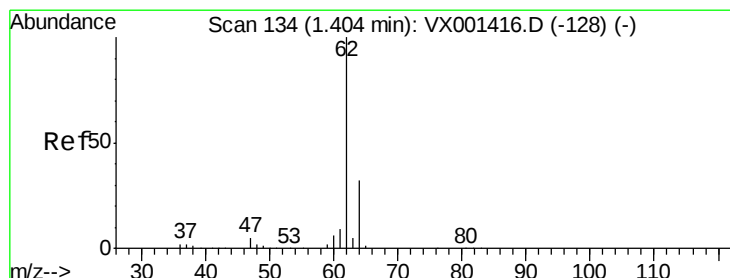
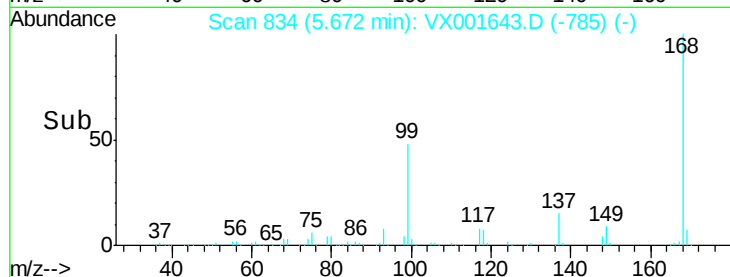
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#4

Vinyl Chloride

Concen: 10.14 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001643.D

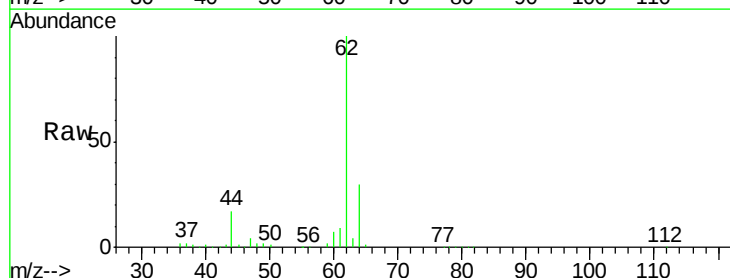
Acq: 11 May 2018 17:01

Tgt Ion: 62 Resp: 35615

Ion Ratio Lower Upper

62 100

64 29.7 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

40000

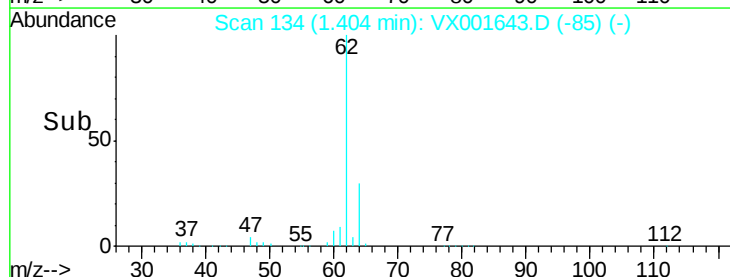
30000

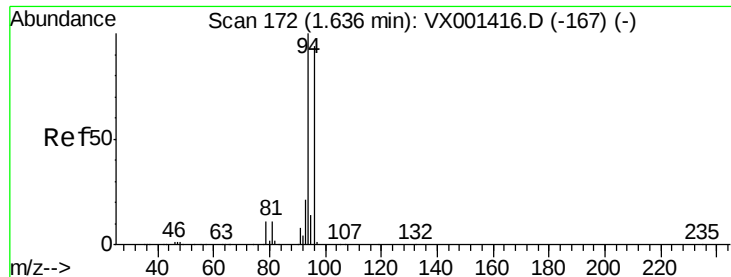
20000

10000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

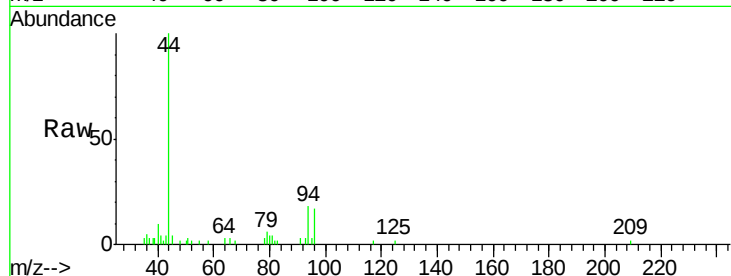
ST008MW151-180501

Tgt Ion: 94 Resp: 1456

Ion Ratio Lower Upper

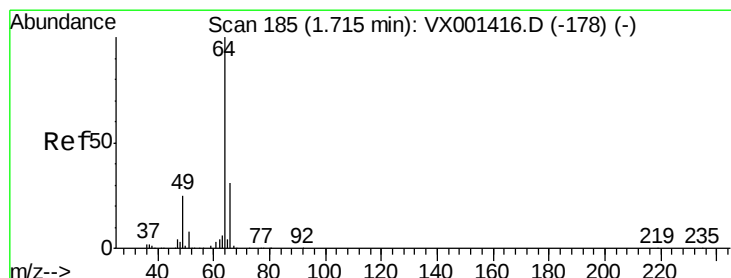
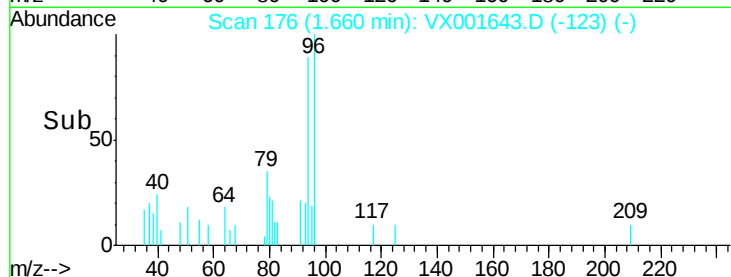
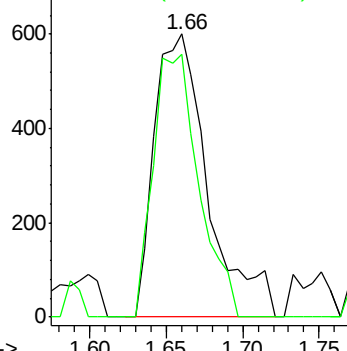
94 100

96 93.0 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.26 ug/l

RT: 1.79 min Scan# 197

Delta R.T. 0.07 min

Lab File: VX001643.D

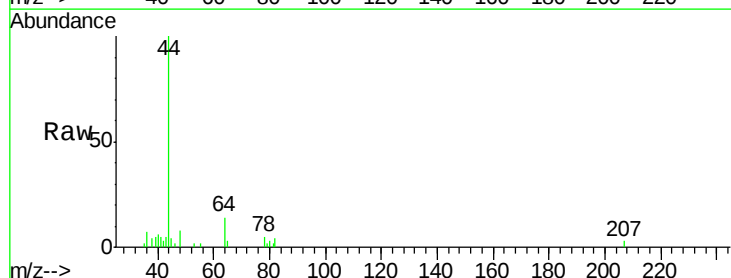
Acq: 11 May 2018 17:01

Tgt Ion: 64 Resp: 593

Ion Ratio Lower Upper

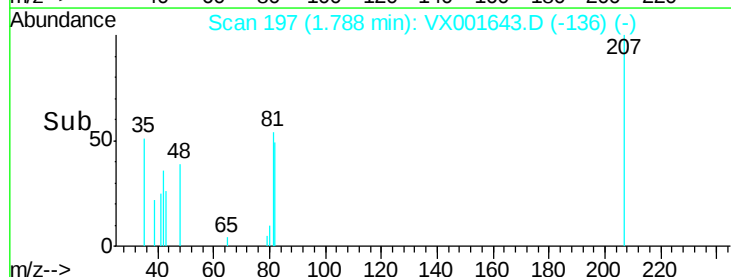
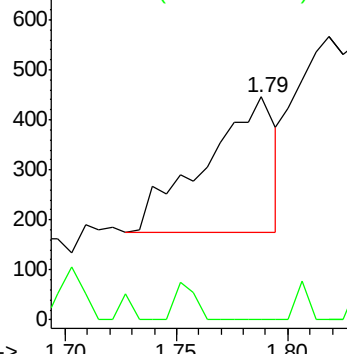
64 100

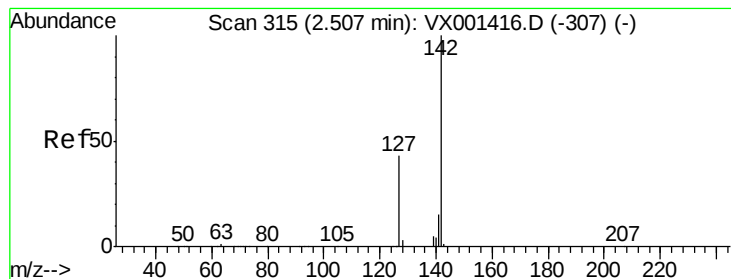
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methyl Iodide

Concen: 0.28 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-180501

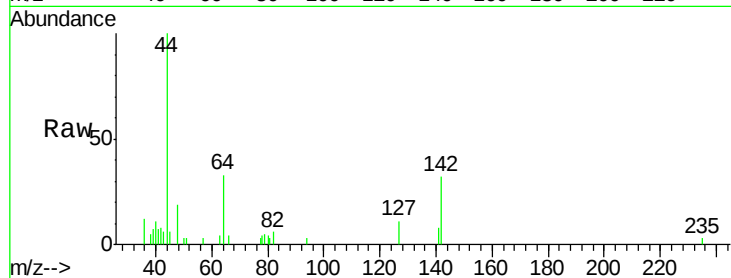
Tgt Ion:142 Resp: 1240

Ion Ratio Lower Upper

142 100

127 49.4 33.6 50.4

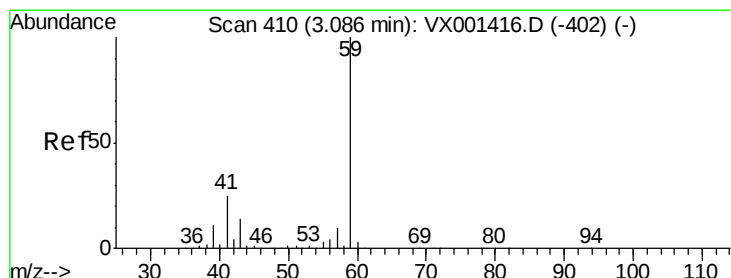
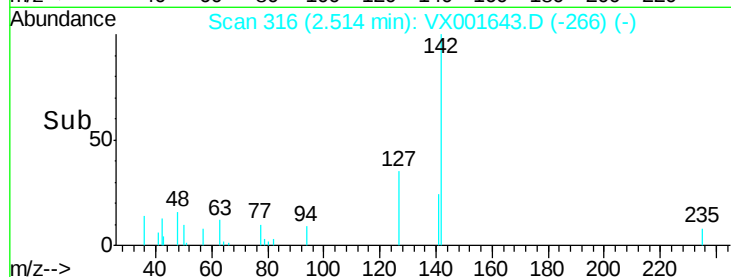
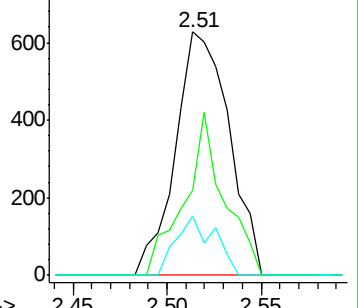
141 17.5 11.4 17.2#



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



#11

Tert butyl alcohol

Concen: 6.04 ug/l

RT: 3.03 min Scan# 401

Delta R.T. -0.05 min

Lab File: VX001643.D

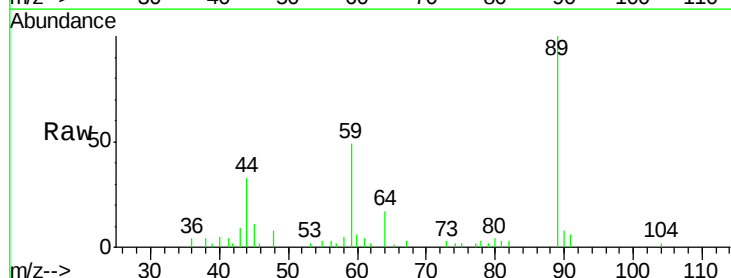
Acq: 11 May 2018 17:01

Tgt Ion: 59 Resp: 4700

Ion Ratio Lower Upper

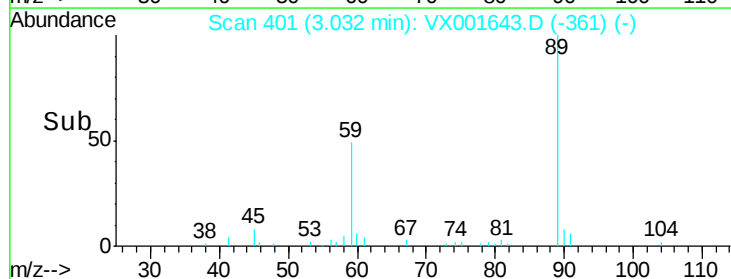
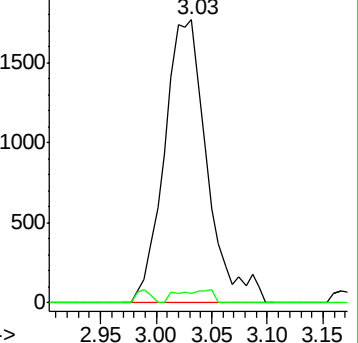
59 100

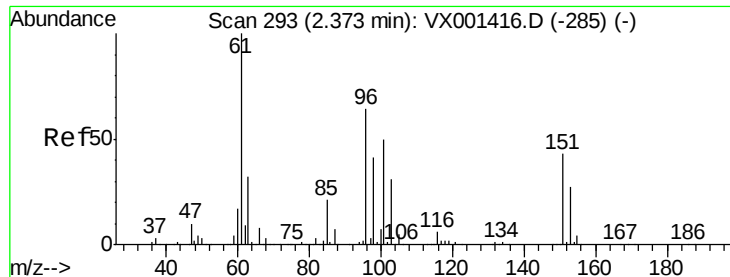
57 3.8 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.70 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-180501

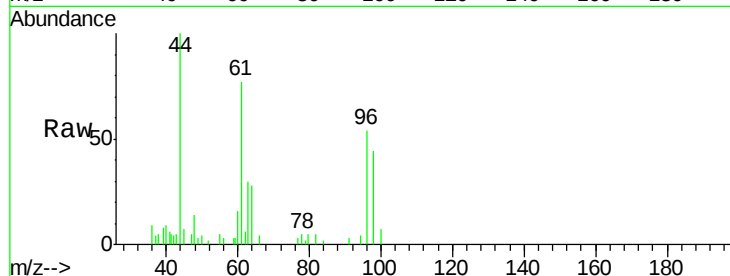
Tgt Ion: 96 Resp: 1992

Ion Ratio Lower Upper

96 100

61 144.0 125.7 188.5

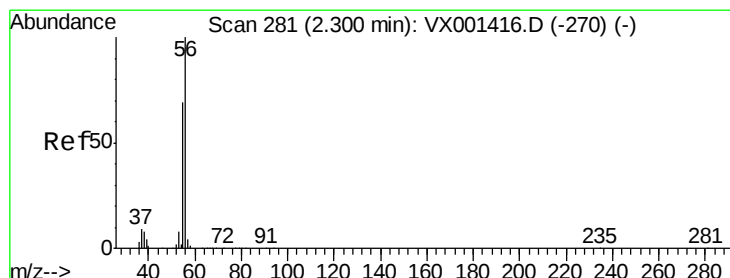
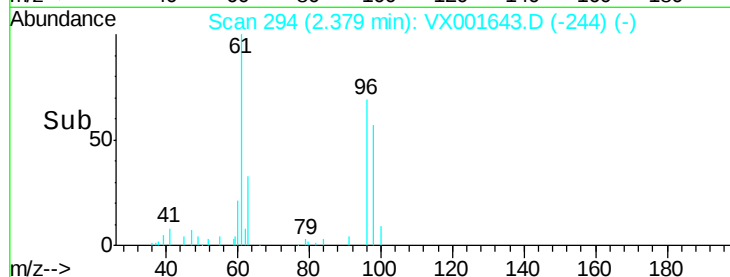
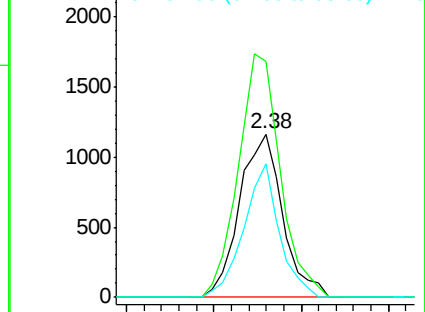
98 81.4 52.0 78.0#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001643.D

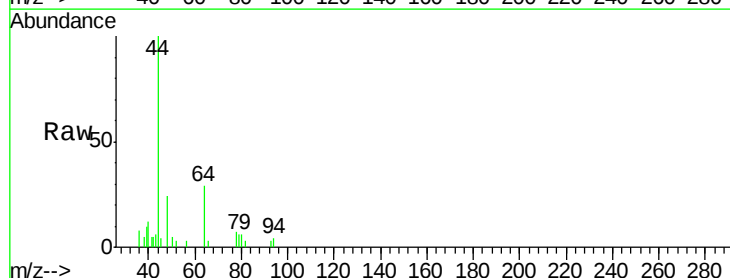
Acq: 11 May 2018 17:01

Tgt Ion: 56 Resp: 45

Ion Ratio Lower Upper

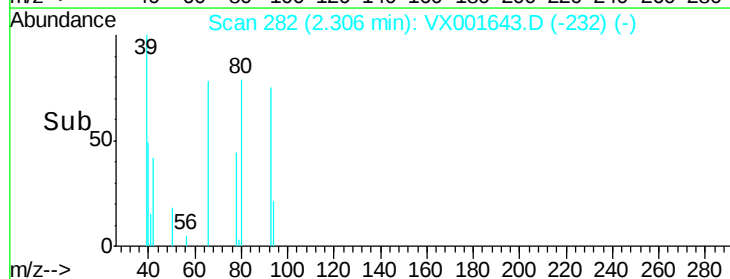
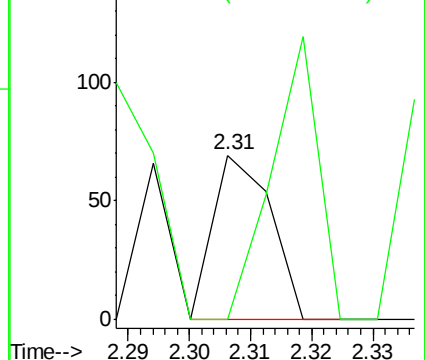
56 100

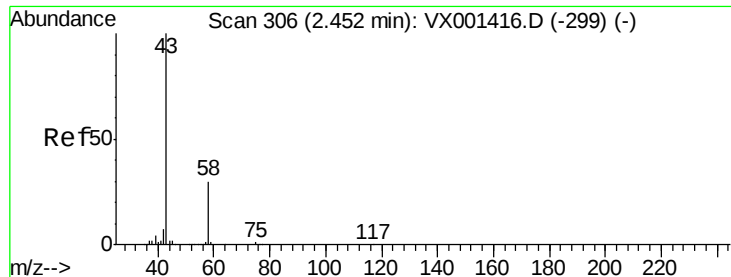
55 140.0 54.5 81.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.20 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

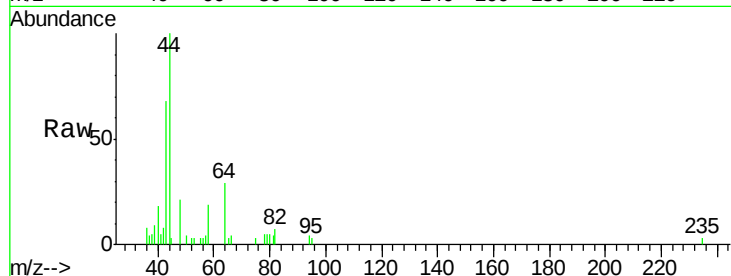
ST008MW151-180501

Tgt Ion: 43 Resp: 2014

Ion Ratio Lower Upper

43 100

58 31.1 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

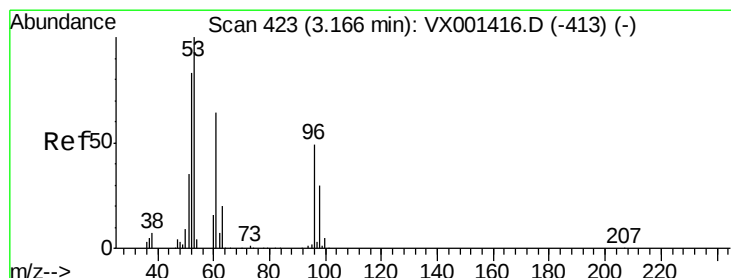
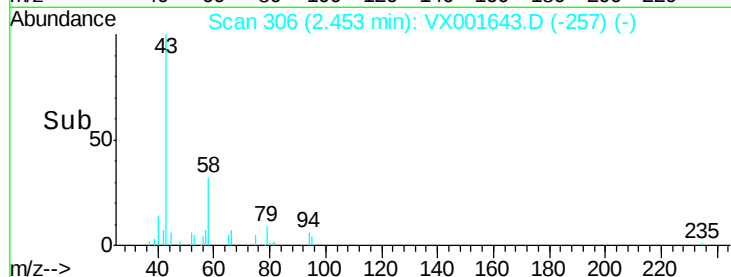
1000

500

0

2.40 2.45 2.50

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.60 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

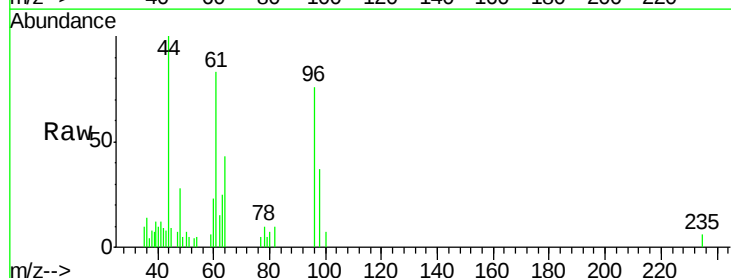
Tgt Ion: 96 Resp: 1918

Ion Ratio Lower Upper

96 100

61 108.3 105.0 157.4

98 48.8 49.9 74.9#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

1500

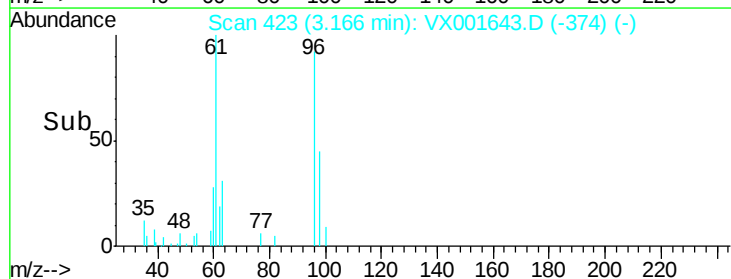
1000

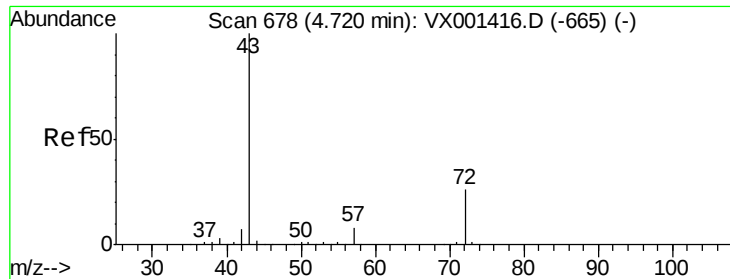
500

0

3.10 3.15 3.20 3.25

Time-->





#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.01 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

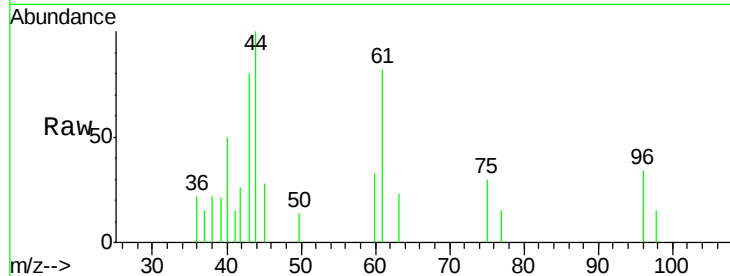
ST008MW151-180501

Tgt Ion: 43 Resp: 679

Ion Ratio Lower Upper

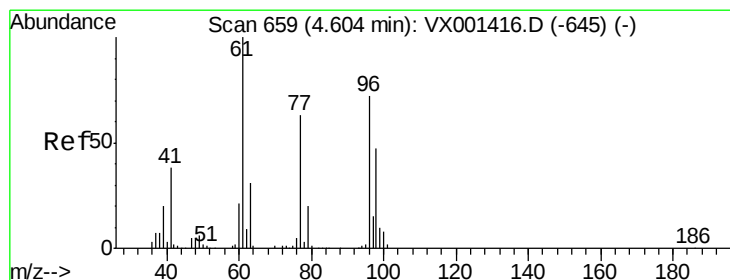
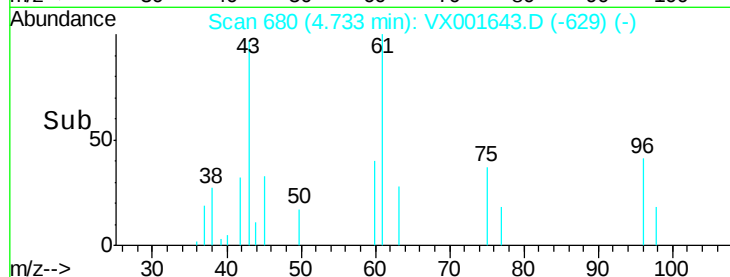
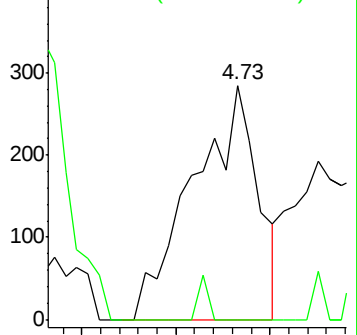
43 100

72 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 94.87 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

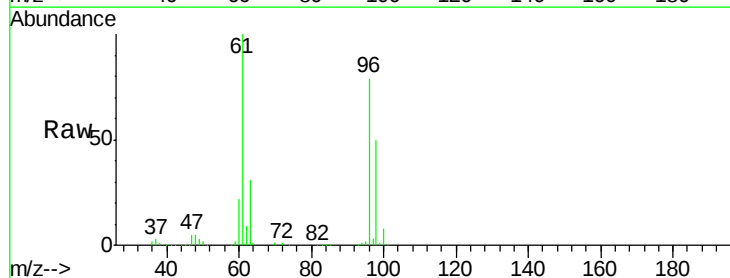
Tgt Ion: 96 Resp: 320326

Ion Ratio Lower Upper

96 100

61 127.2 0.0 301.6

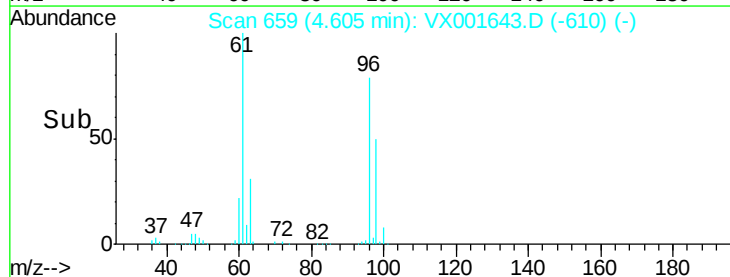
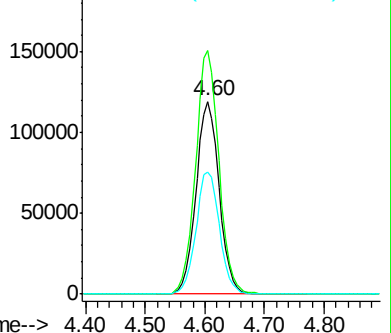
98 64.7 0.0 131.6

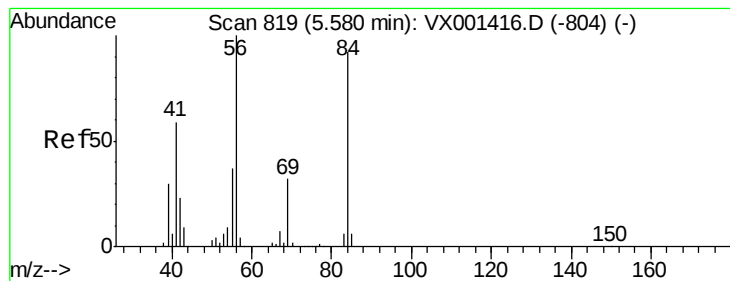


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 0.92 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

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ClientSampleId :

ST008MW151-180501

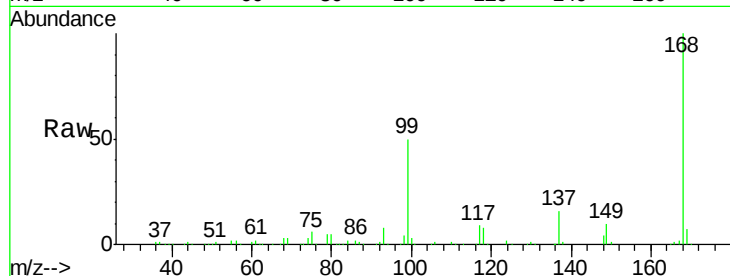
Tgt Ion: 56 Resp: 4349

Ion Ratio Lower Upper

56 100

69 176.6 25.4 38.0#

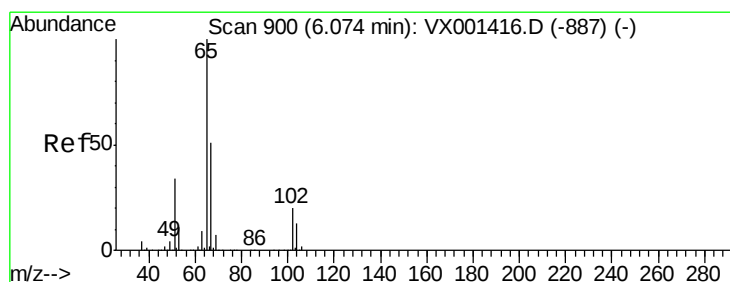
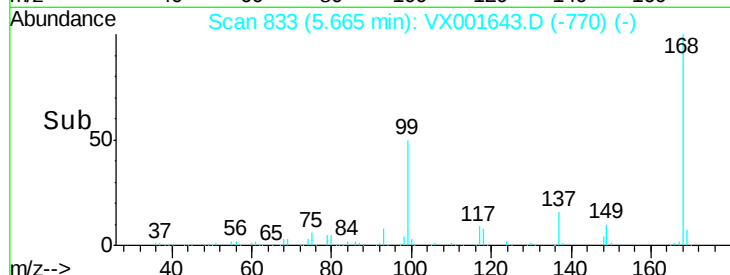
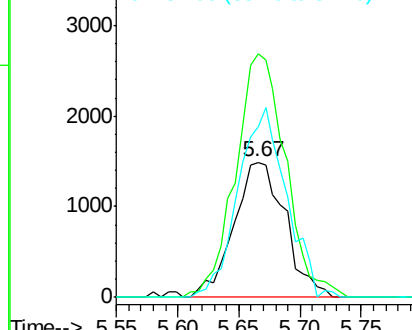
84 126.9 73.8 110.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 56.24 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001643.D

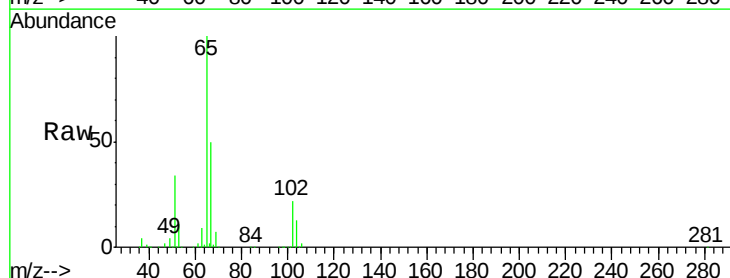
Acq: 11 May 2018 17:01

Tgt Ion: 65 Resp: 207539

Ion Ratio Lower Upper

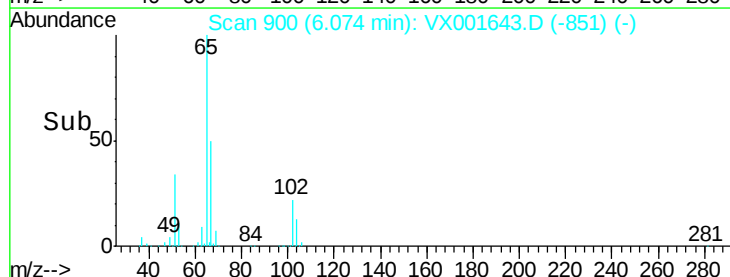
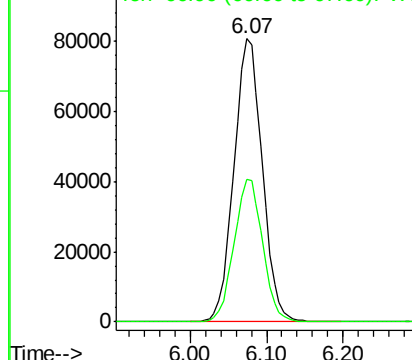
65 100

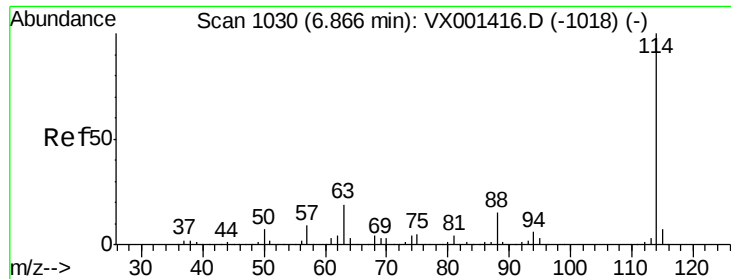
67 50.7 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

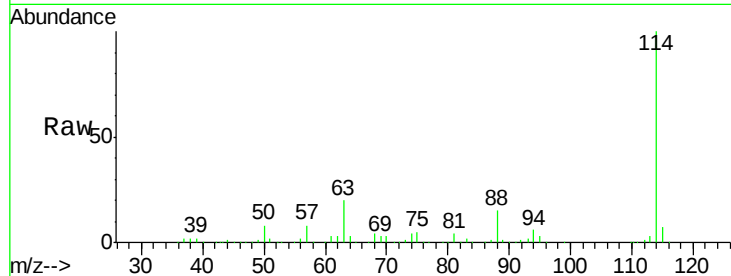




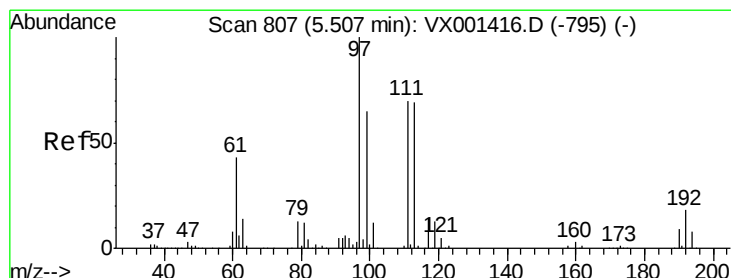
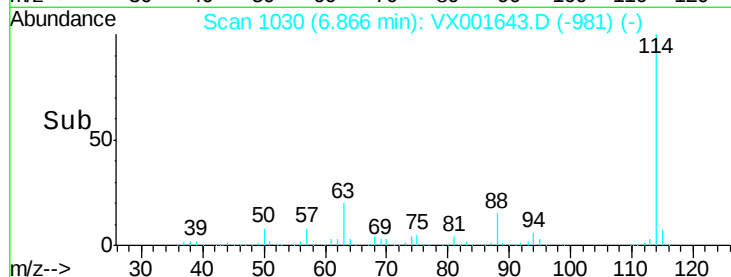
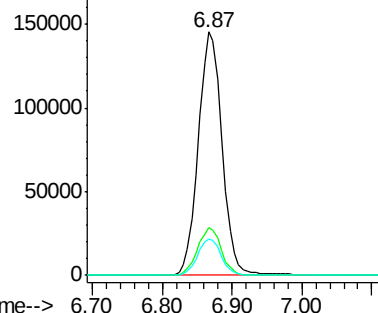
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-180501

Tgt Ion:114 Resp: 343991
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 38.6
 88 15.0 0.0 30.8

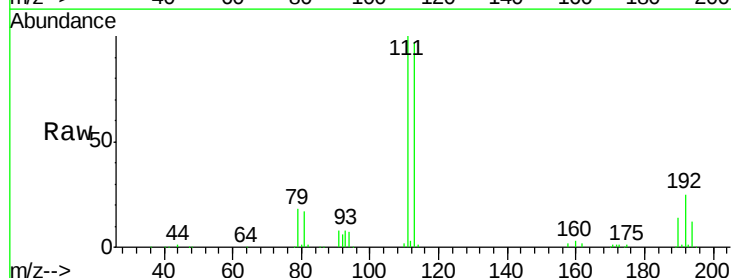


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

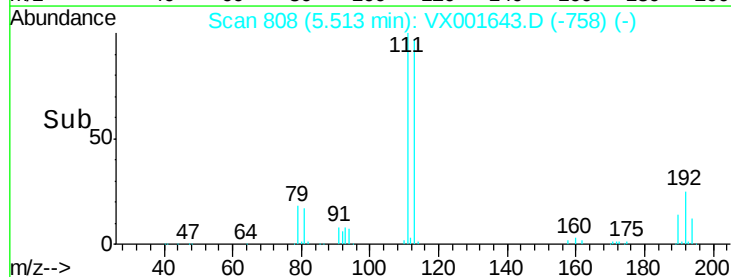
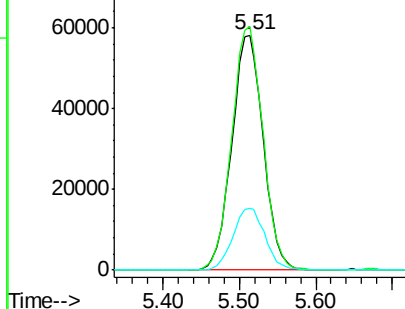


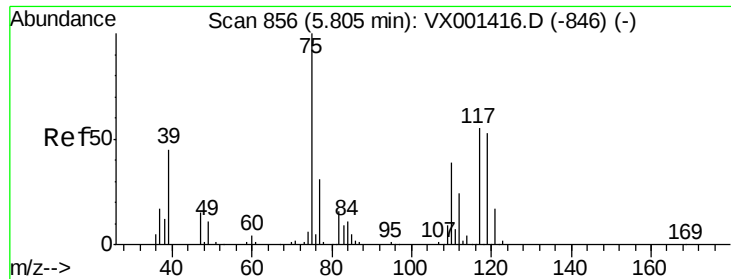
#35
 Dibromofluoromethane
 Concen: 54.01 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

Tgt Ion:113 Resp: 165254
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.2 123.2
 192 26.7 21.4 32.0



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

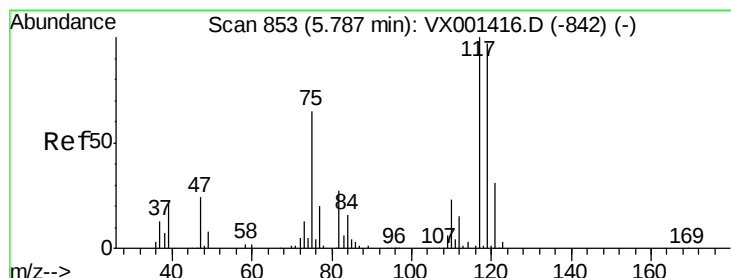
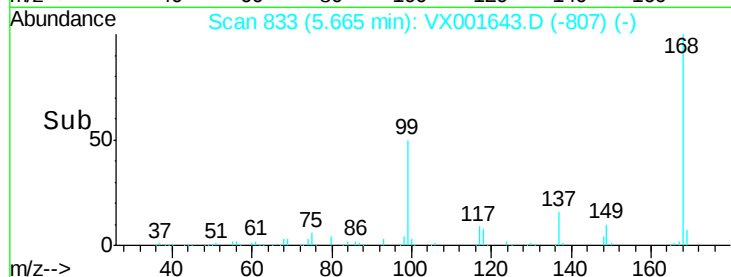
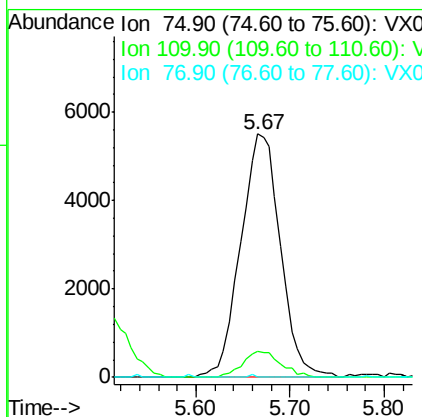
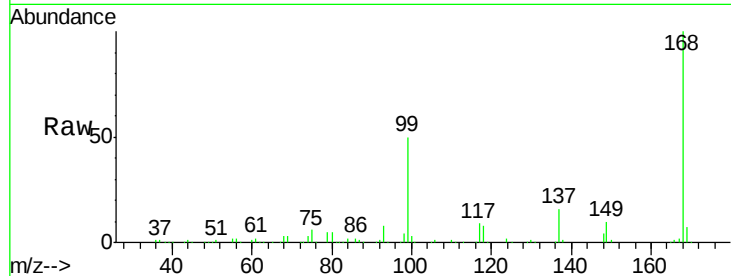




#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

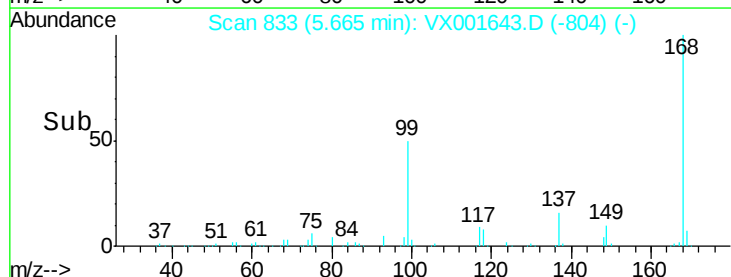
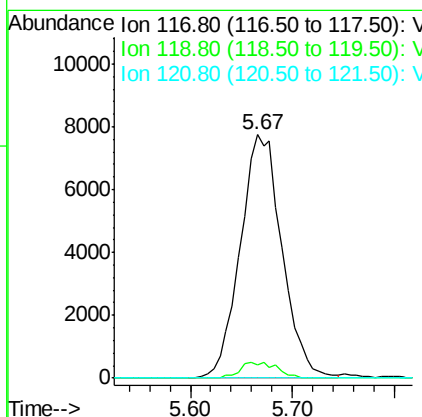
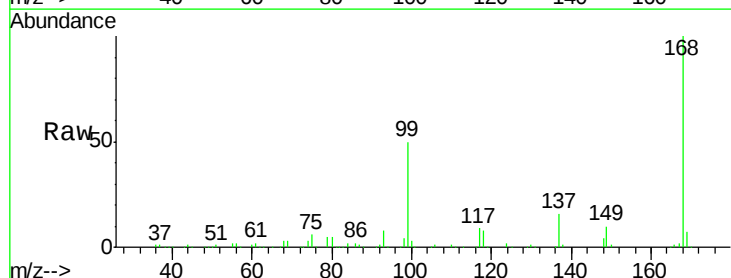
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-180501

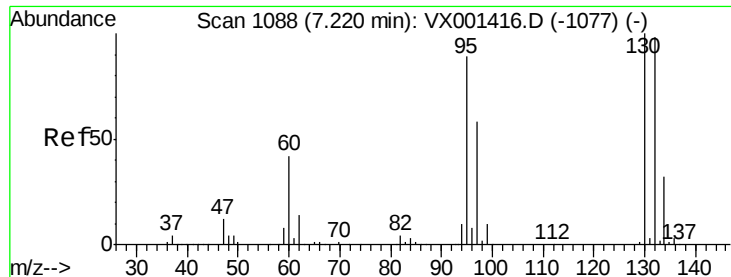
Tgt Ion: 75 Resp: 16249
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.9 56.7#
 77 0.1 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 4.71 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

Tgt Ion: 117 Resp: 21973
 Ion Ratio Lower Upper
 117 100
 119 5.3 77.0 115.6#
 121 0.0 25.1 37.7#





#44

Trichloroethene

Concen: 5.27 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

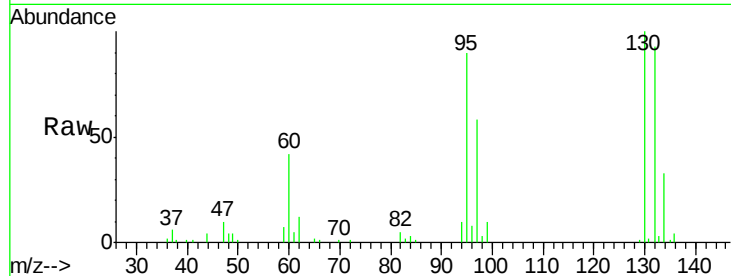
ST008MW151-180501

Tgt Ion:130 Resp: 20602

Ion Ratio Lower Upper

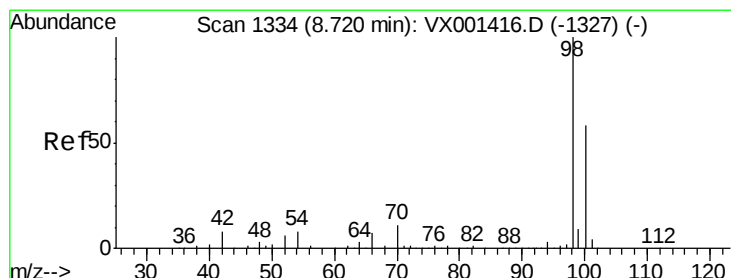
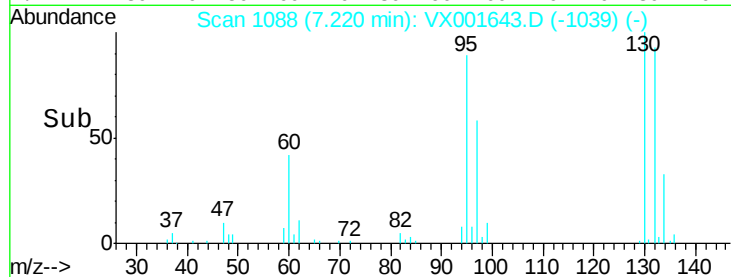
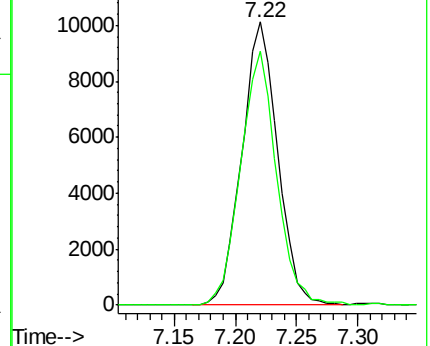
130 100

95 89.9 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 52.10 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001643.D

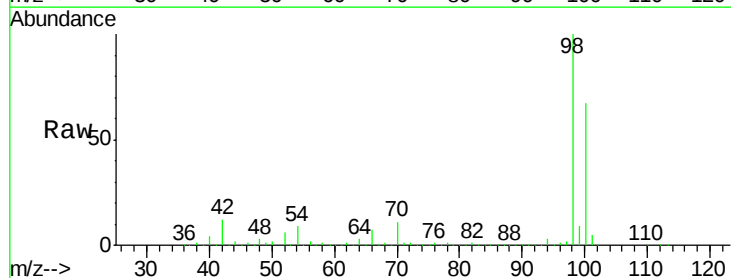
Acq: 11 May 2018 17:01

Tgt Ion: 98 Resp: 581875

Ion Ratio Lower Upper

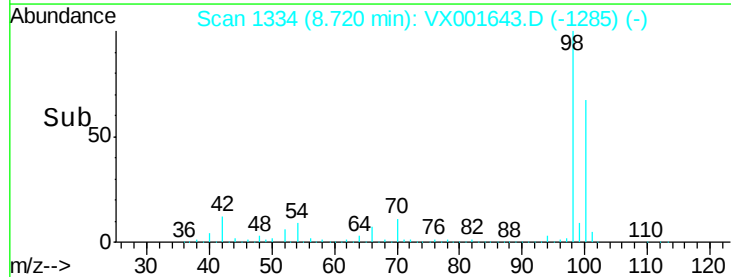
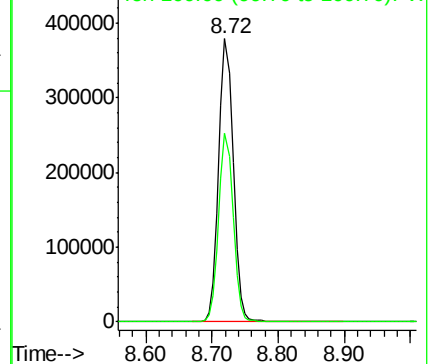
98 100

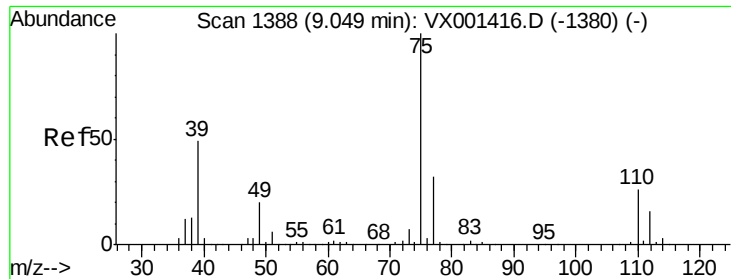
100 65.9 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

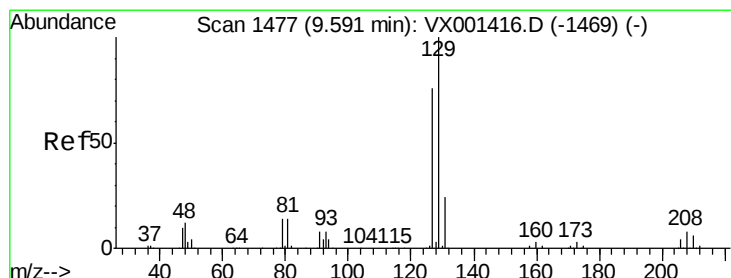
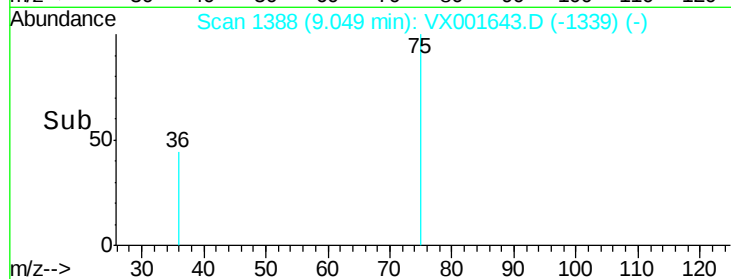
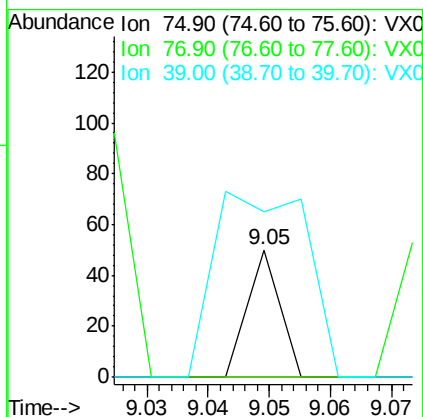
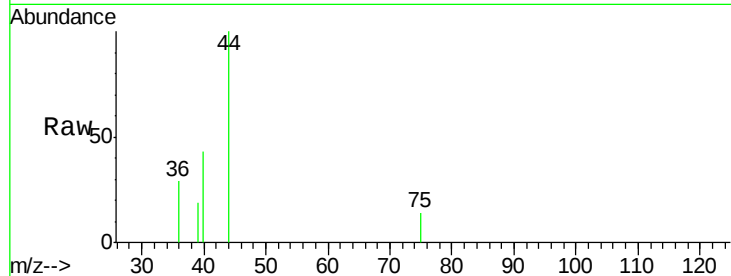




#54
 cis-1,3-Dichloropropene
 Concen: 2.27 ug/l
 RT: 9.05 min Scan# 1388
 Delta R.T. 0.00 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

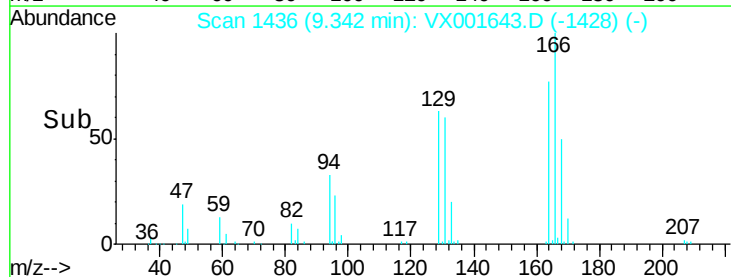
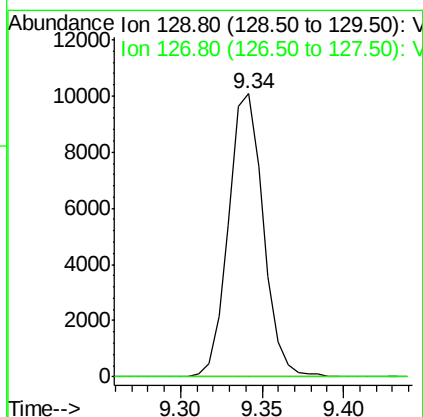
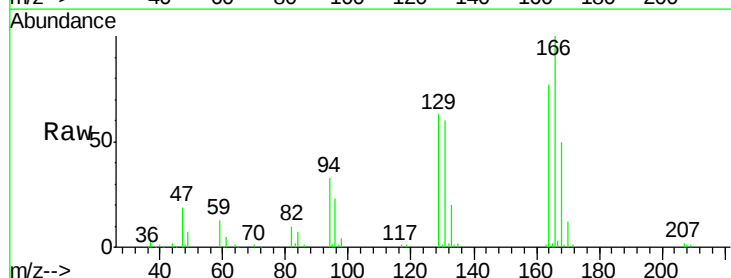
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-180501

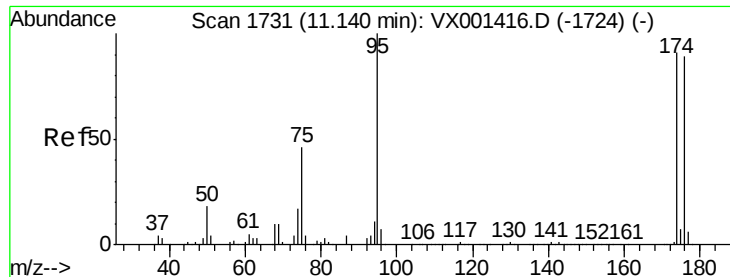
Tgt Ion: 75 Resp: 18
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 130.0 38.9 58.3#



#60
 Dibromochloromethane
 Concen: 4.34 ug/l
 RT: 9.34 min Scan# 1436
 Delta R.T. -0.25 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

Tgt Ion: 129 Resp: 14975
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.1 114.5#

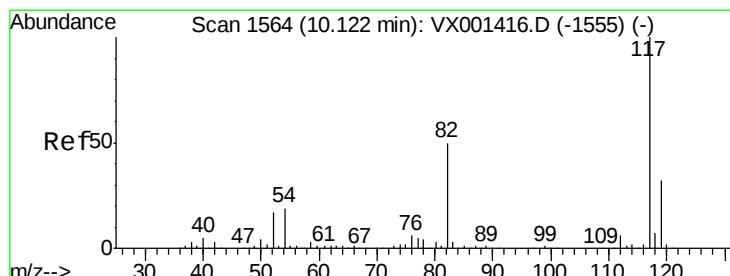
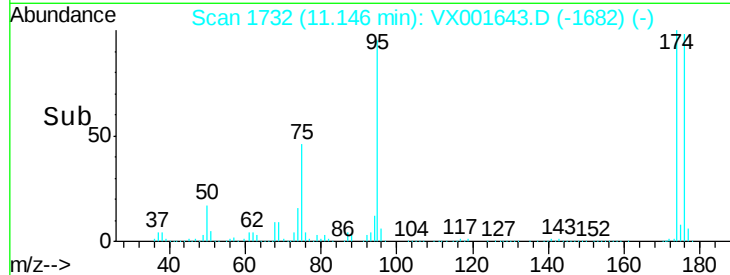
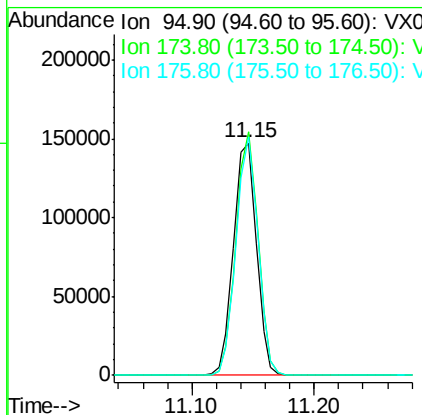
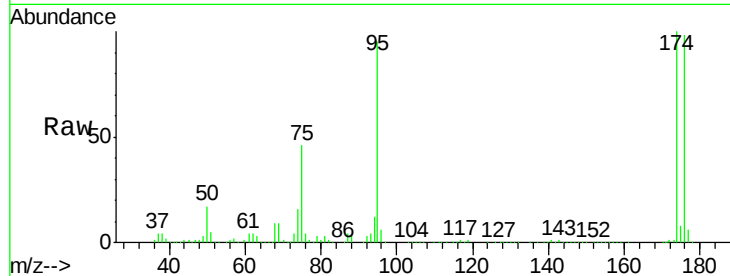




#62
4-Bromofluorobenzene
Concen: 44.41 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.01 min
Lab File: VX001643.D
Acq: 11 May 2018 17:01

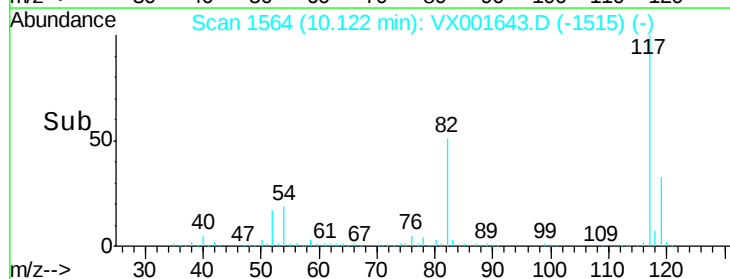
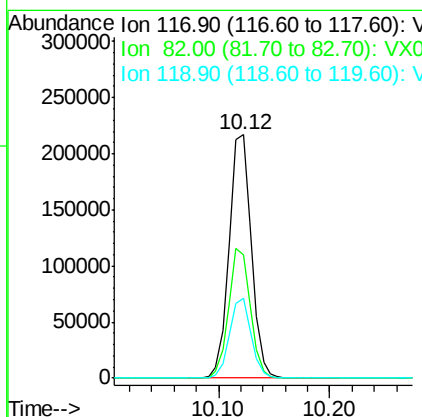
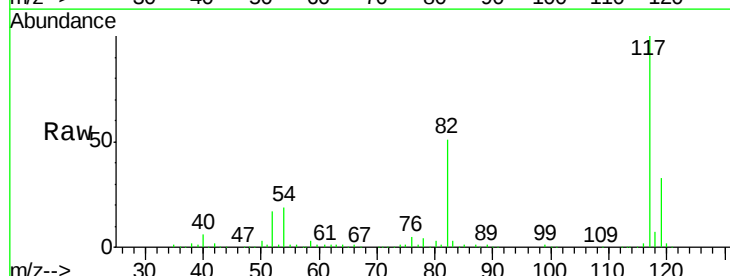
Instrument :
MSVOA_X
ClientSampleId :
ST008MW151-180501

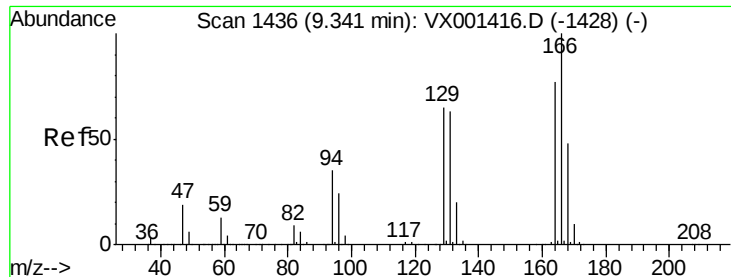
Tgt Ion: 95 Resp: 190419
Ion Ratio Lower Upper
95 100
174 101.1 0.0 202.0
176 98.0 0.0 197.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001643.D
Acq: 11 May 2018 17:01

Tgt Ion: 117 Resp: 299733
Ion Ratio Lower Upper
117 100
82 50.7 40.0 60.0
119 33.0 25.8 38.8





#64

Tetrachloroethene

Concen: 4.37 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-180501

Tgt Ion:164 Resp: 18267

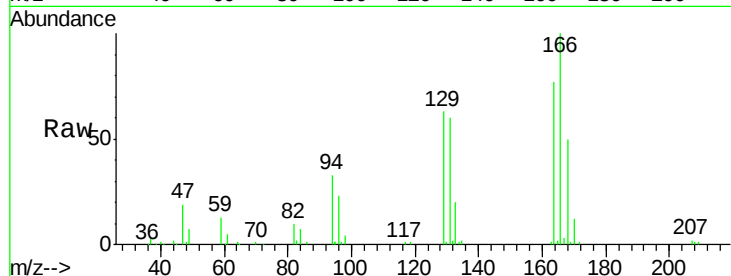
Ion Ratio Lower Upper

164 100

166 129.9 103.5 155.3

129 81.5 66.7 100.1

131 78.3 64.9 97.3

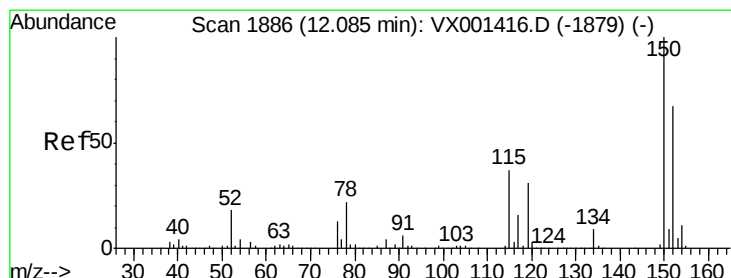
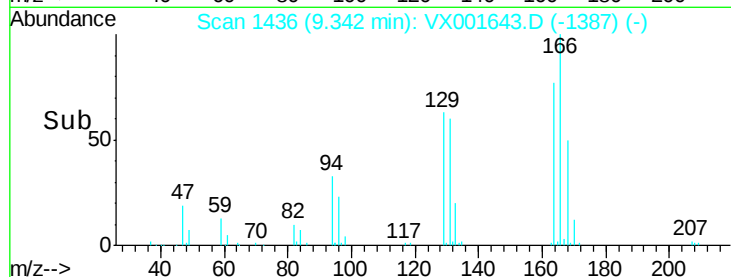
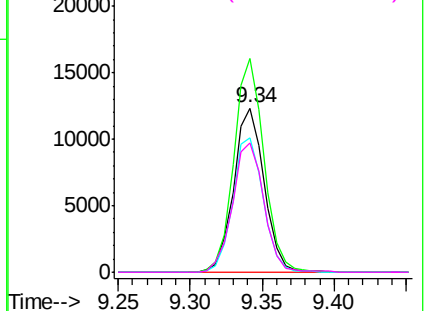


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001643.D

Acq: 11 May 2018 17:01

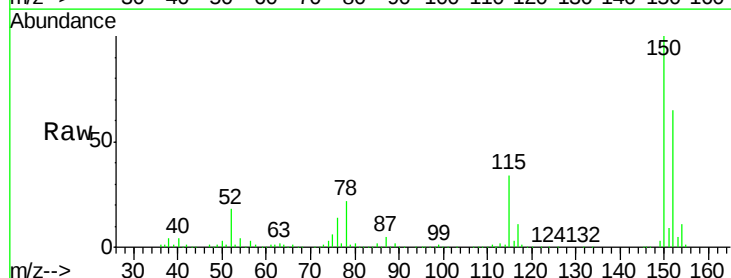
Tgt Ion:152 Resp: 161703

Ion Ratio Lower Upper

152 100

115 52.3 37.7 113.1

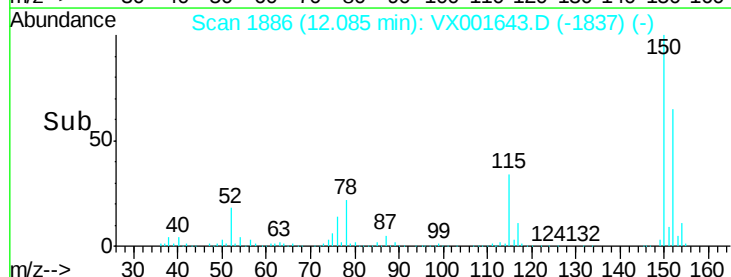
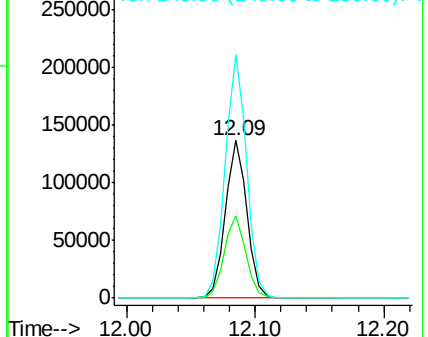
150 154.1 0.0 349.4

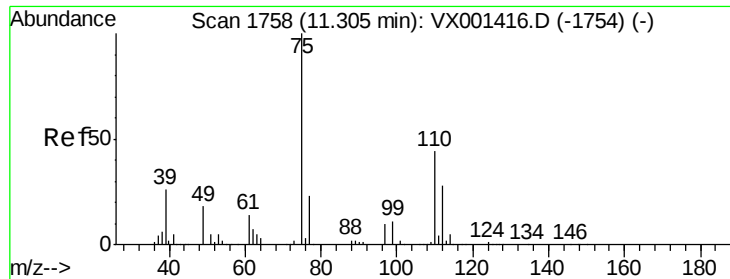


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

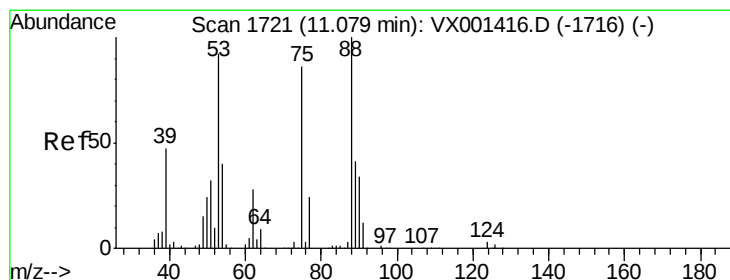
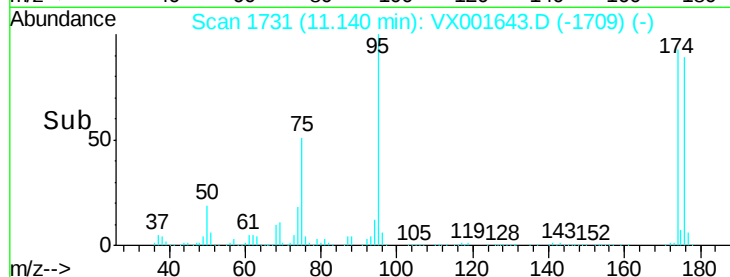
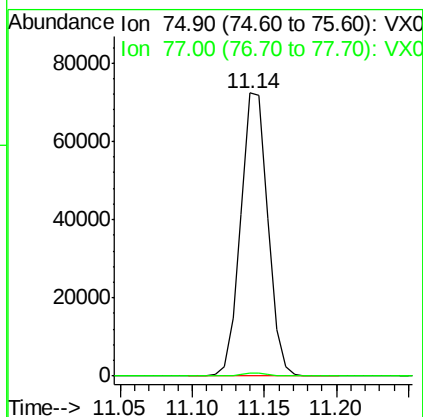
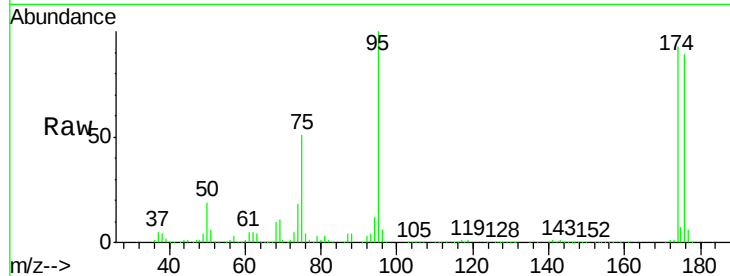




#76
 1,2,3-Trichloropropane
 Concen: 28.93 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-180501

Tgt Ion: 75 Resp: 94867
 Ion Ratio Lower Upper
 75 100
 77 1.3 19.6 58.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.61 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001643.D
 Acq: 11 May 2018 17:01

Tgt Ion: 75 Resp: 94867
 Ion Ratio Lower Upper
 75 100
 53 0.1 84.5 126.7#
 89 0.0 39.5 59.3#

