

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006667.D
 Acq On : 20 Dec 2018 11:21
 Operator : JC/MD
 Sample : J6492-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP.BLANK

Quant Time: Dec 21 03:28:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	651061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1023181	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	943087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	447227	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	354557	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
35) Dibromofluoromethane	5.50	113	311545	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
50) Toluene-d8	8.71	98	1213381	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	11.13	95	437794	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	

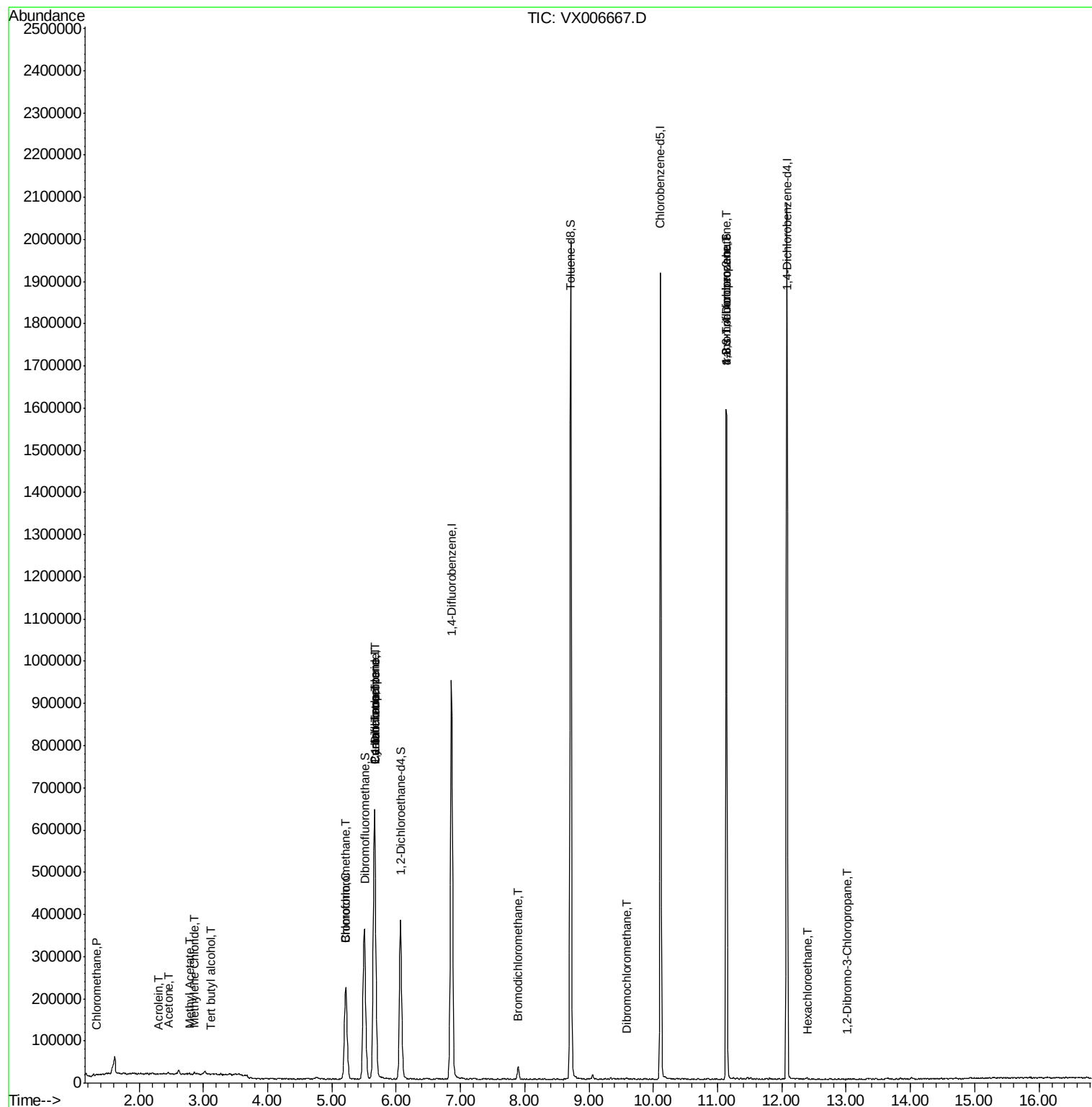
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1481	0.231	ug/l #	55
5) Bromomethane	1.65	94	328	Below Cal		94
11) Tert butyl alcohol	3.13	59	344	0.220	ug/l #	9
13) Acrolein	2.29	56	485	0.459	ug/l #	13
16) Acetone	2.45	43	3599	1.116	ug/l #	86
18) Methyl Acetate	2.78	43	1930	0.204	ug/l #	89
20) Methylene Chloride	2.86	84	2386	0.358	ug/l #	78
28) Bromochloromethane	5.21	49	20323	2.757	ug/l #	4
30) Chloroform	5.21	83	264730	23.907	ug/l	97
31) Cyclohexane	5.66	56	11201	1.153	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	44577	5.260	ug/l #	50
38) Carbon Tetrachloride	5.66	117	61107	7.420	ug/l #	14
47) Bromodichloromethane	7.90	83	19216	2.510	ug/l	92
49) 1,4-Dioxane	7.76	88	80	Below Cal	#	27
60) Dibromochloromethane	9.59	129	839	2.436	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	201664	24.264	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	201664	71.823	ug/l #	10
90) Hexachloroethane	12.41	117	22	3.298	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	13.01	75	379	0.201	ug/l #	22

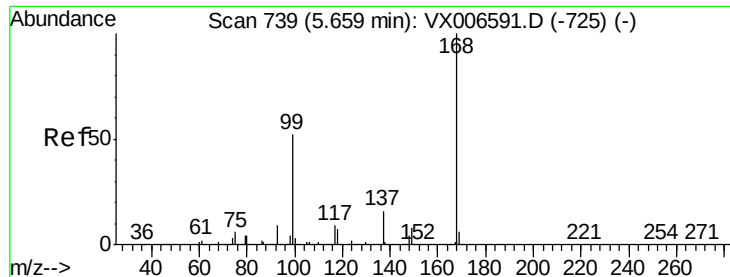
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

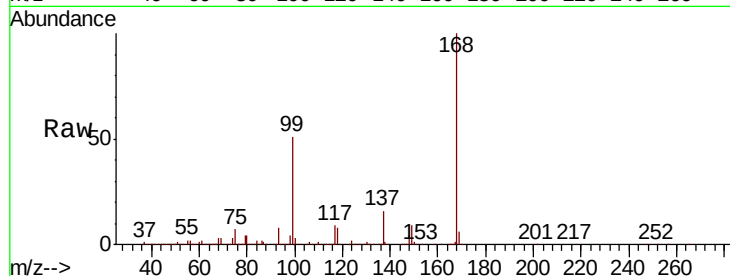
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Tot Ion:168 Resp: 651061

Ion Ratio Lower Upper

168 100

99 51.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

100000

50000

0

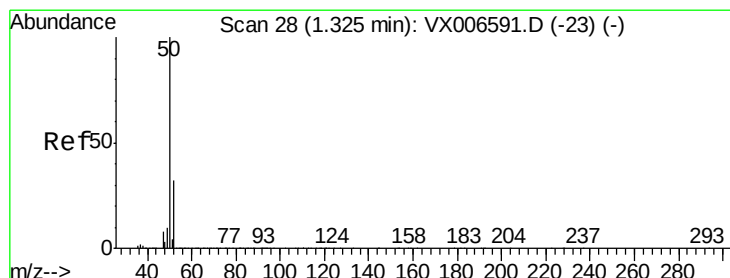
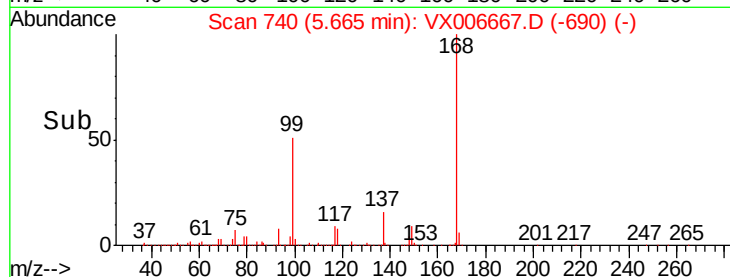
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: 0.231 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006667.D

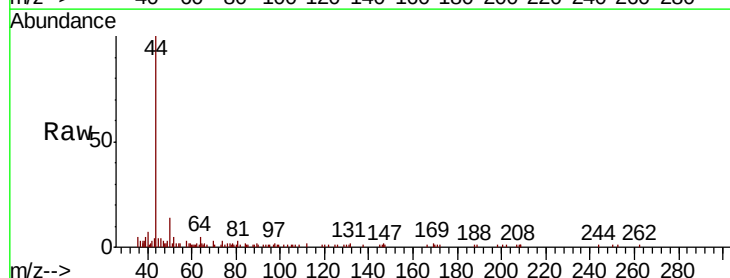
Acq: 20 Dec 2018 11:21

Tgt Ion: 50 Resp: 1481

Ion Ratio Lower Upper

50 100

52 6.8 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

400

200

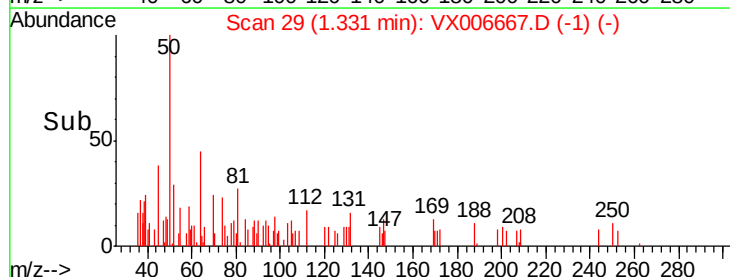
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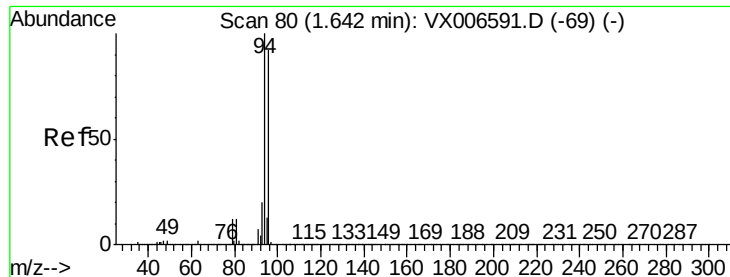
Time-->

1.30

1.35

1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

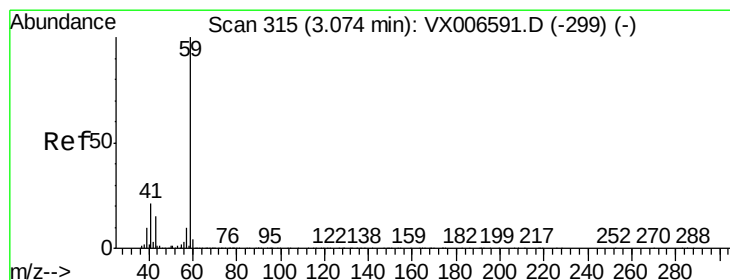
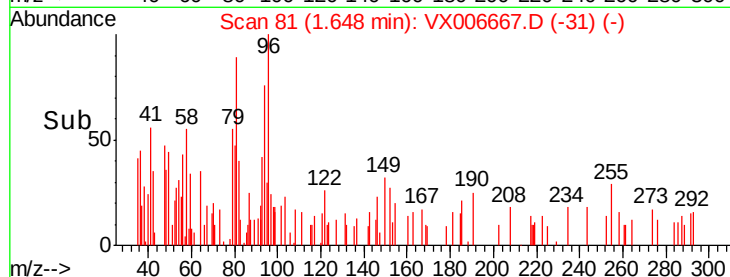
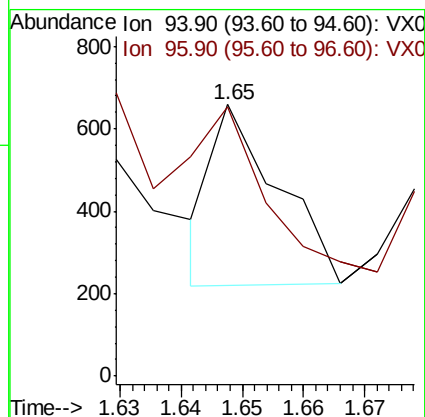
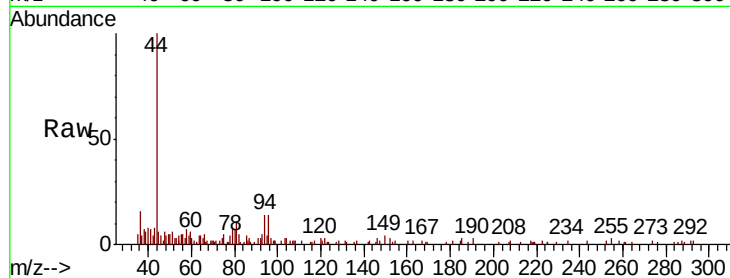
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Tot Ion: 94 Resp: 328

Ion Ratio Lower Upper

94 100

96 86.2 73.4 110.2



#11

Tert butyl alcohol

Concen: 0.220 ug/l

RT: 3.13 min Scan# 324

Delta R.T. 0.05 min

Lab File: VX006667.D

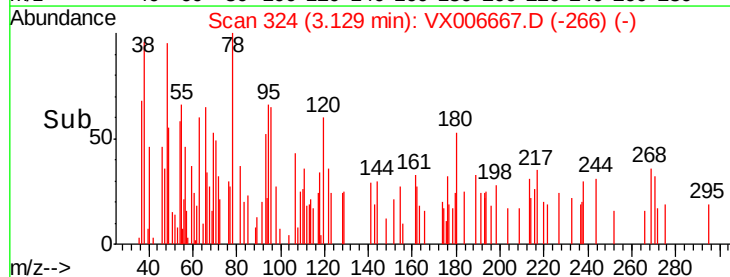
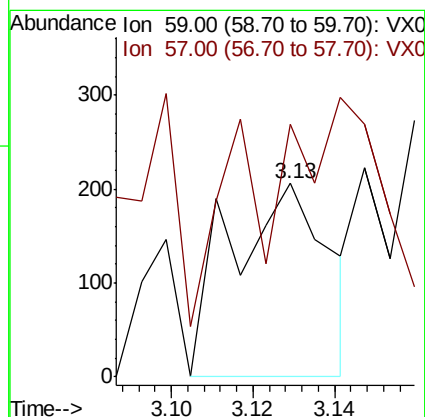
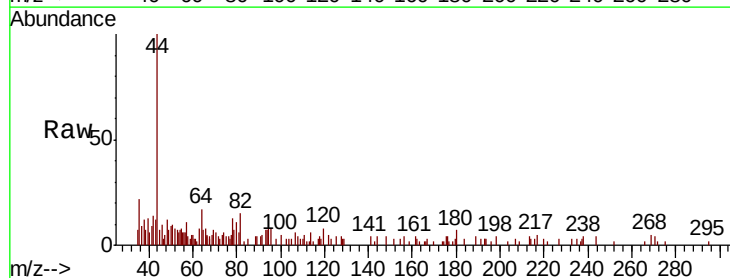
Acq: 20 Dec 2018 11:21

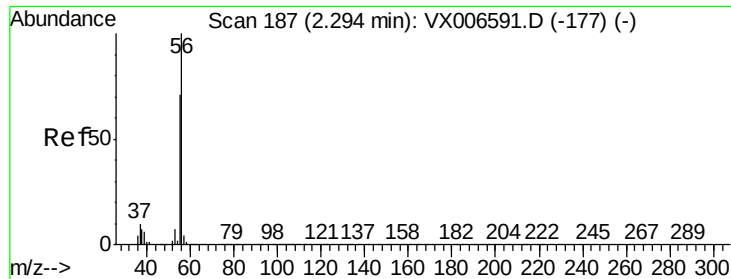
Tgt Ion: 59 Resp: 344

Ion Ratio Lower Upper

59 100

57 44.8 8.5 12.7#





#13

Acrolein

Concen: 0.459 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

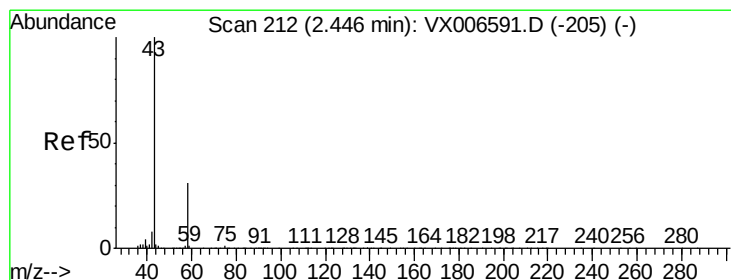
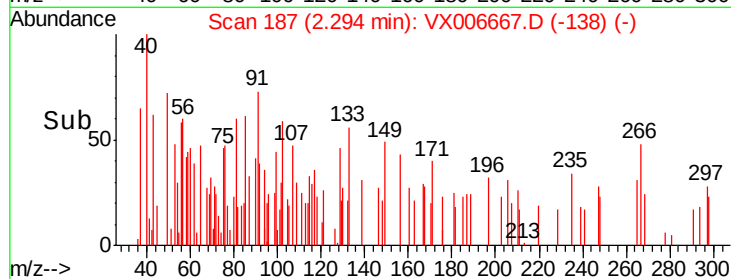
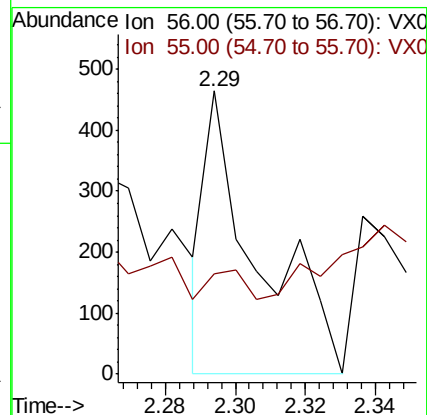
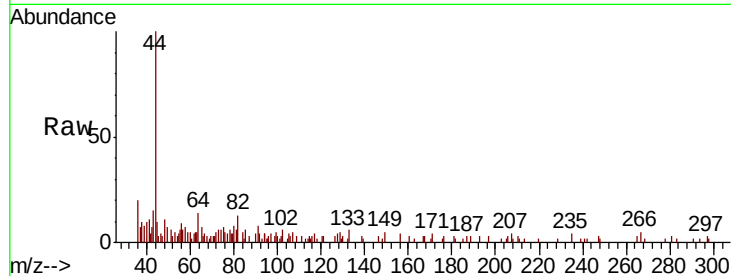
QNWP8-EQUIP.BLANK

Tot Ion: 56 Resp: 485

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 1.116 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006667.D

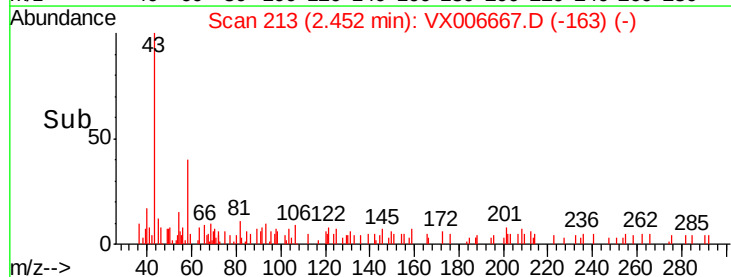
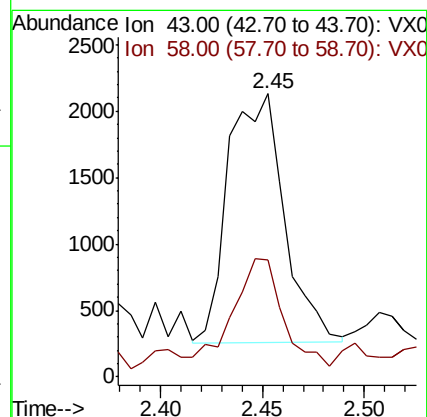
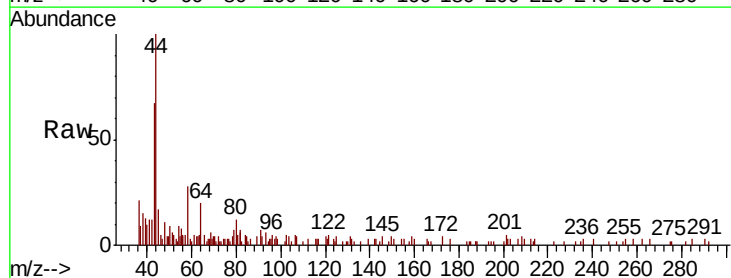
Acq: 20 Dec 2018 11:21

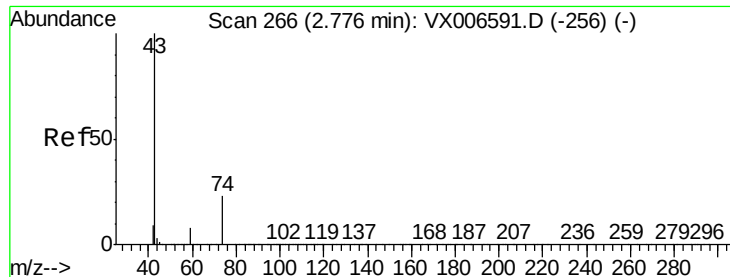
Tgt Ion: 43 Resp: 3599

Ion Ratio Lower Upper

43 100

58 39.2 25.0 37.6#

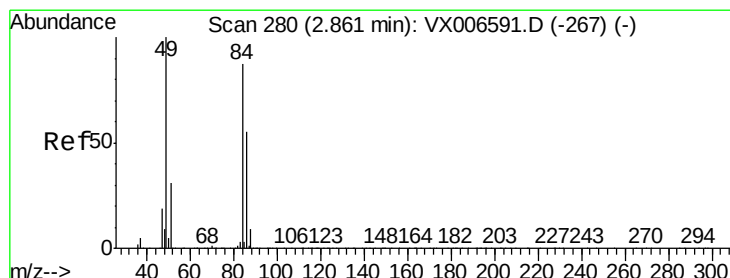
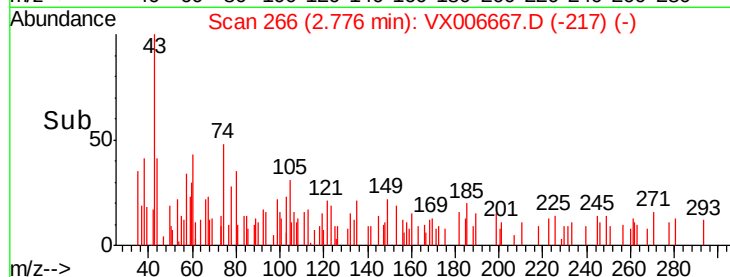
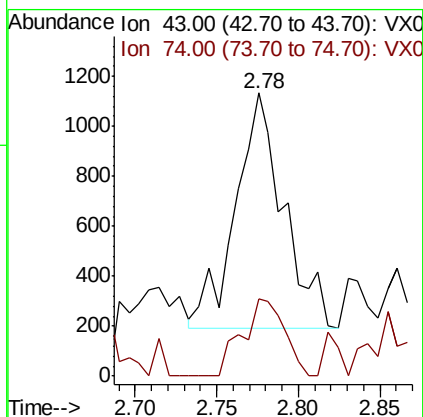
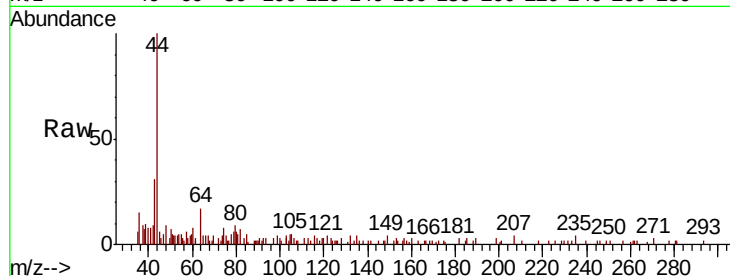




#18
Methyl Acetate
Concen: 0.204 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

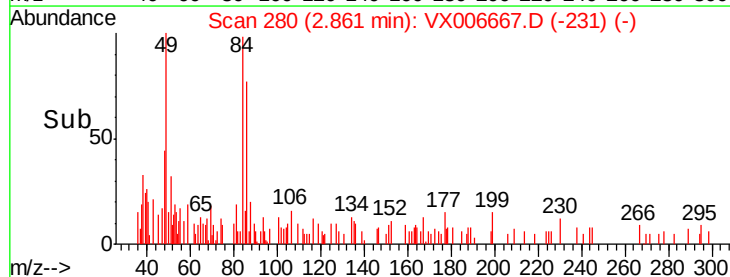
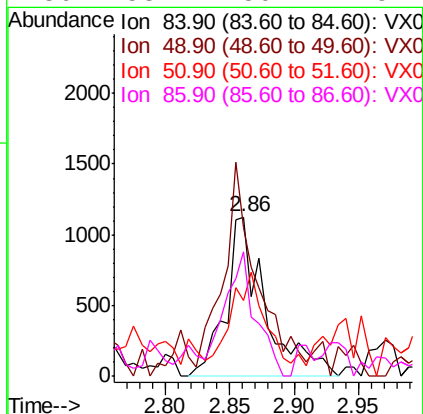
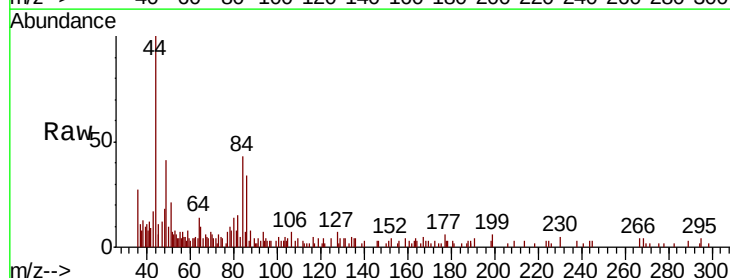
Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP.BLANK

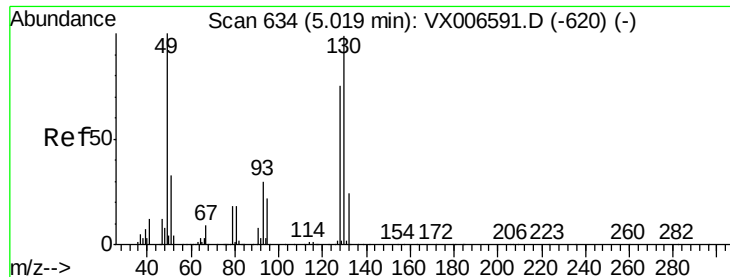
Tot Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
74 28.8 18.6 28.0#



#20
Methylene Chloride
Concen: 0.358 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

Tgt Ion: 84 Resp: 2386
Ion Ratio Lower Upper
84 100
49 80.9 91.8 137.6#
51 23.9 28.5 42.7#
86 58.7 50.2 75.2





#28

Bromochloromethane

Concen: 2.757 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.20 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

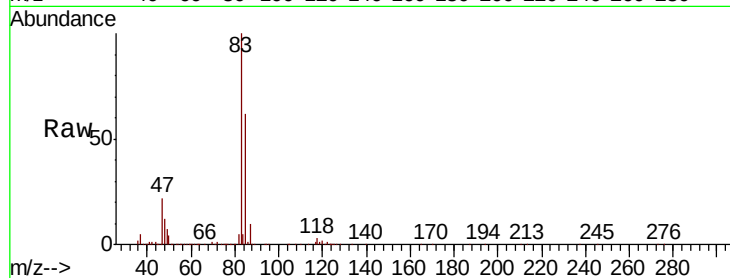
Tot Ion: 49 Resp: 20323

Ion Ratio Lower Upper

49 100

129 0.2 0.0 5.4

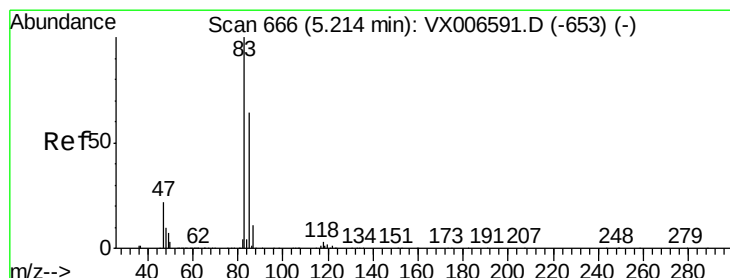
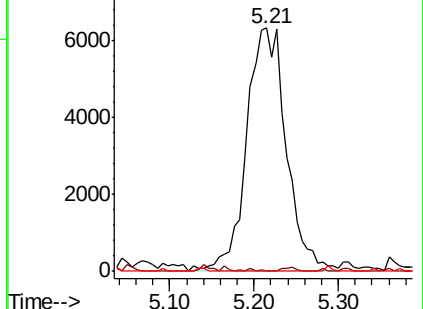
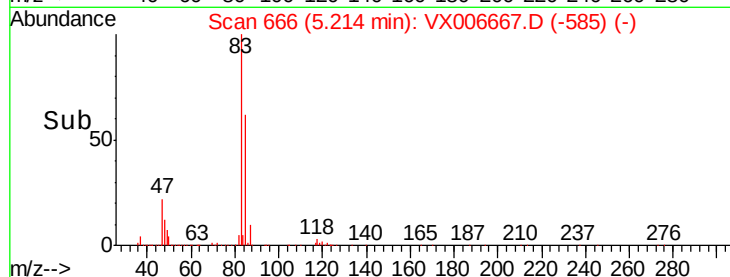
130 0.1 77.7 116.5#



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



#30

Chloroform

Concen: 23.907 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX006667.D

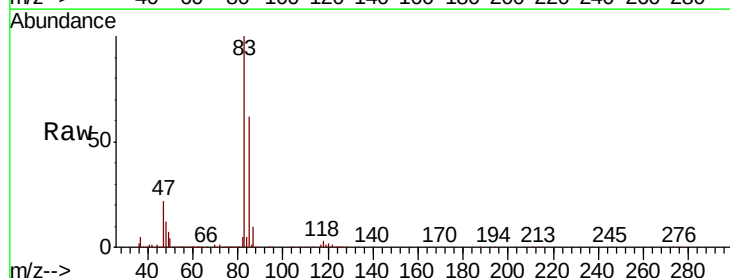
Acq: 20 Dec 2018 11:21

Tgt Ion: 83 Resp: 264730

Ion Ratio Lower Upper

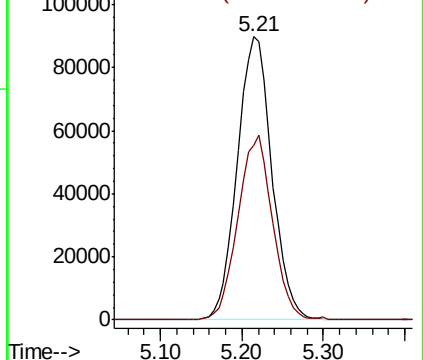
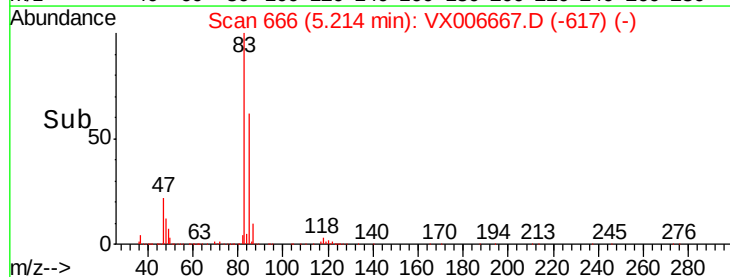
83 100

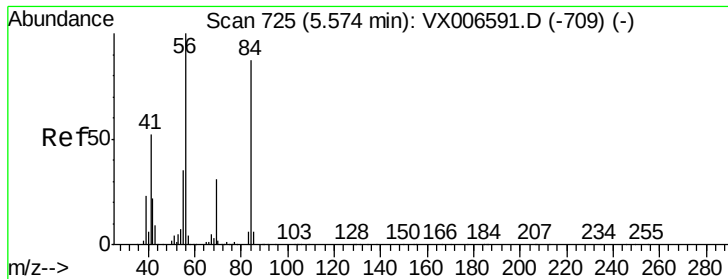
85 61.7 51.2 76.8



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.153 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

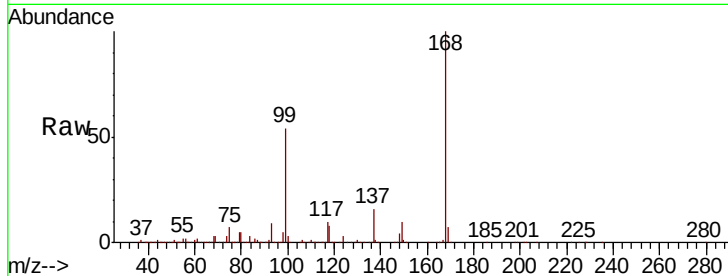
Tot Ion: 56 Resp: 11201

Ion Ratio Lower Upper

56 100

69 192.9 24.4 36.6#

84 146.3 70.0 105.0#

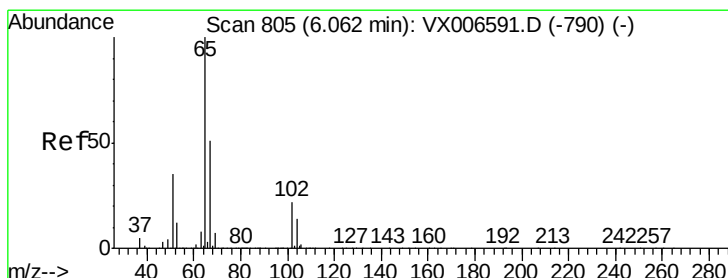
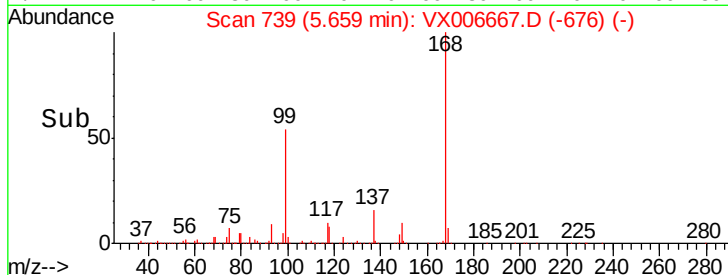
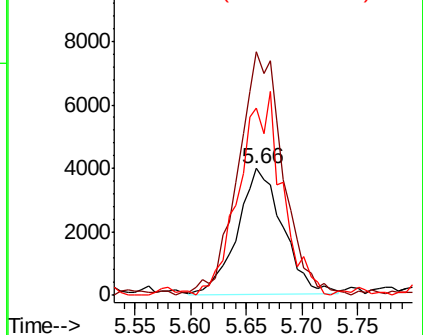


Abundance

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: 50.529 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006667.D

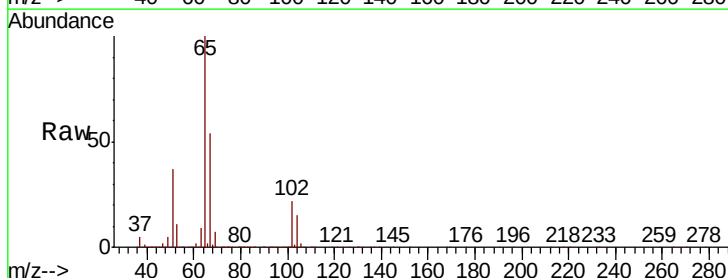
Acq: 20 Dec 2018 11:21

Tgt Ion: 65 Resp: 354557

Ion Ratio Lower Upper

65 100

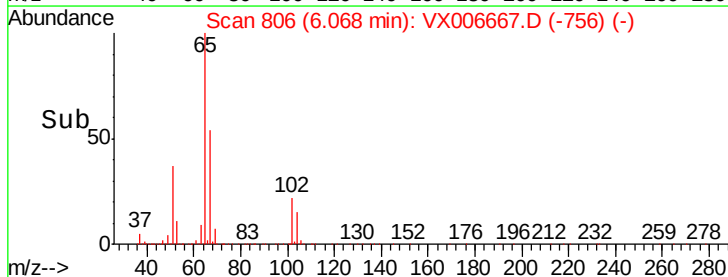
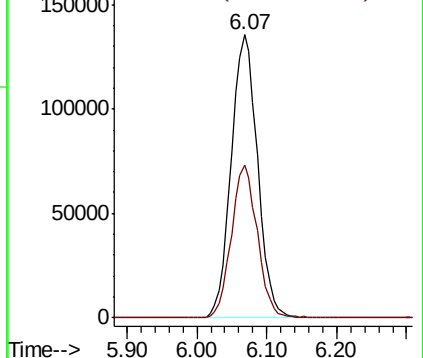
67 52.9 0.0 105.0

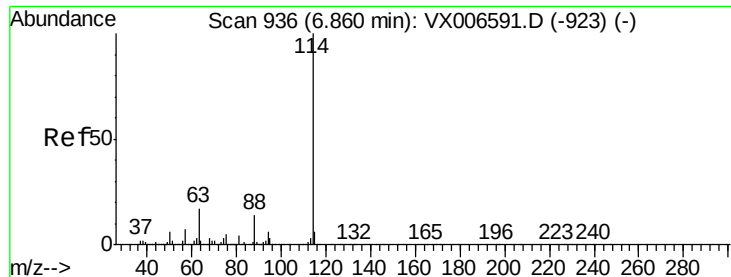


Abundance

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# 936

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

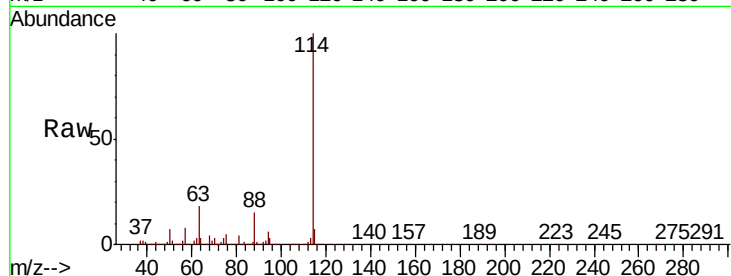
QNWP8-EQUIP.BLANK

Tot Ion:114 Resp: 1023181

Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	34.8
88	15.4	0.0	28.8

63 17.9 0.0 34.8

88 15.4 0.0 28.8



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

6.86

400000

300000

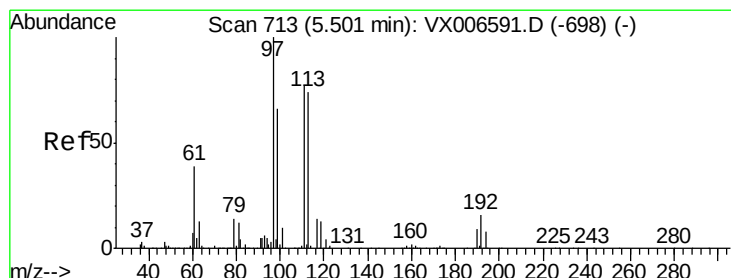
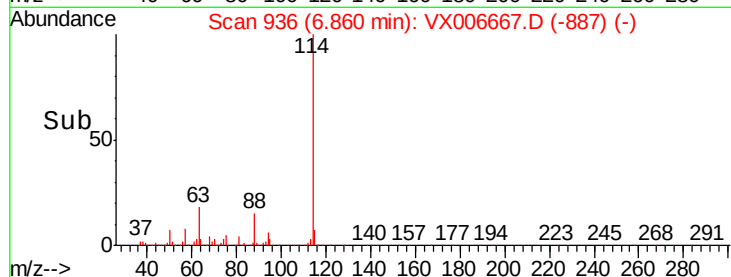
200000

100000

0

6.70 6.80 6.90 7.00 7.10

Time-->



#35

Dibromofluoromethane

Concen: 48.149 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

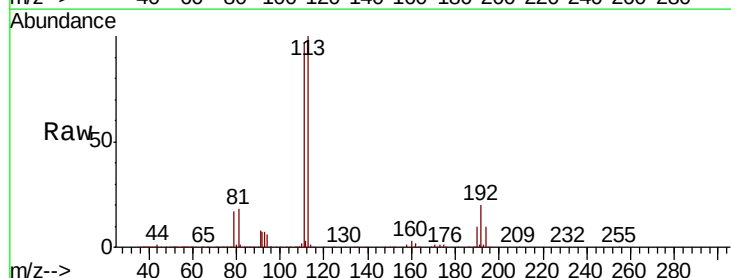
Tgt Ion:113 Resp: 311545

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.6	122.4
192	20.8	16.7	25.1

113 100

111 101.7 81.6 122.4

192 20.8 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

150000

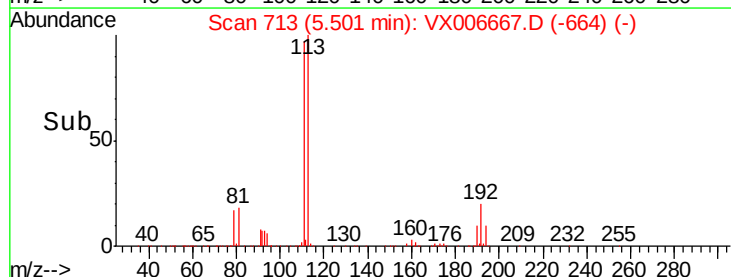
100000

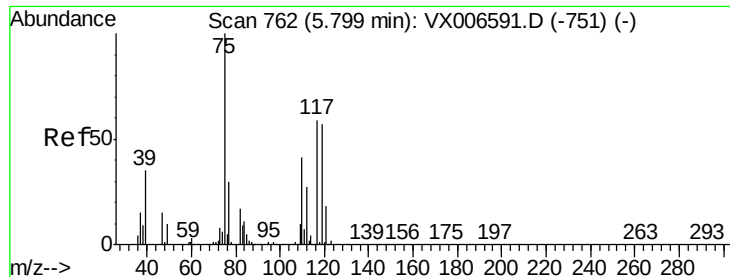
50000

0

5.40 5.50 5.60

Time-->

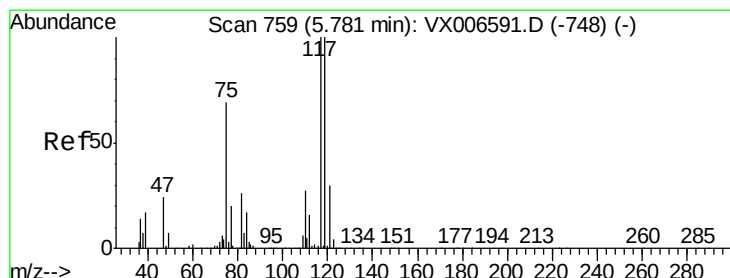
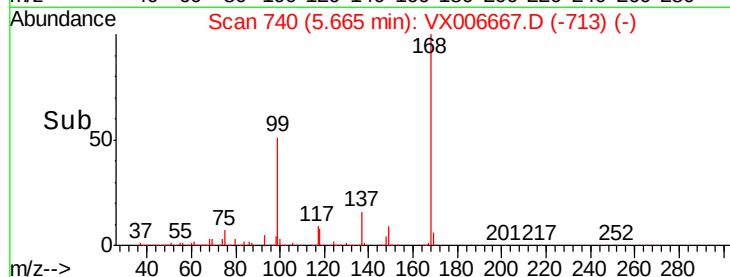
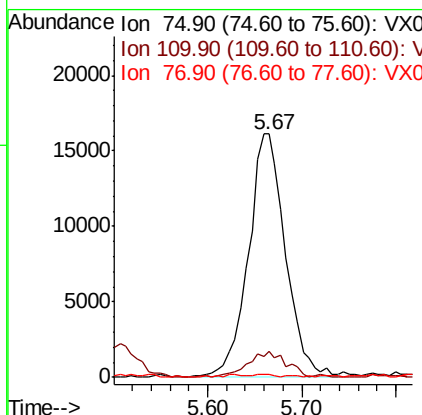
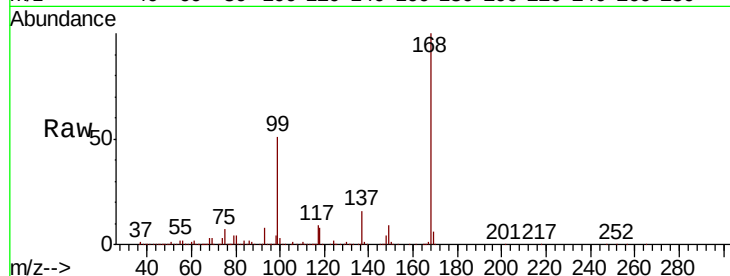




#36
 1,1-Dichloropropene
 Concen: 5.260 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006667.D
 Acq: 20 Dec 2018 11:21

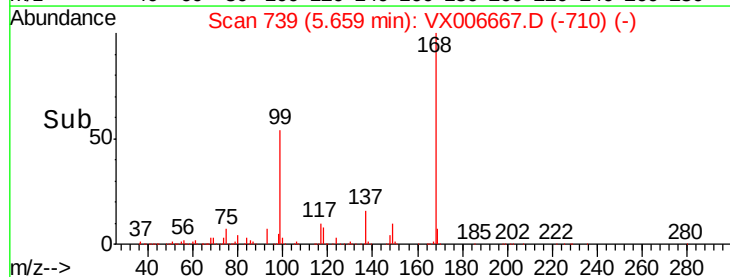
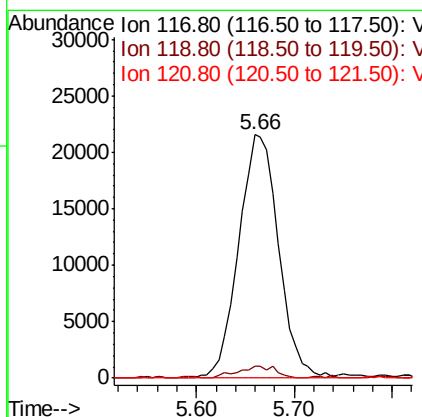
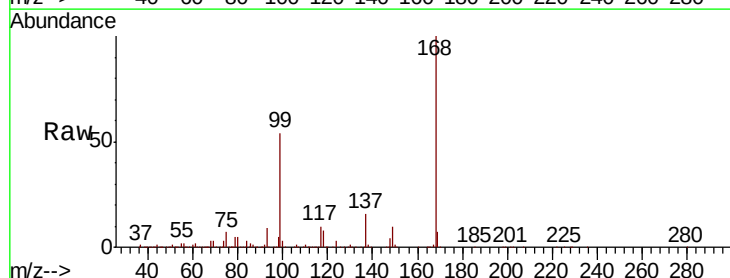
Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP.BLANK

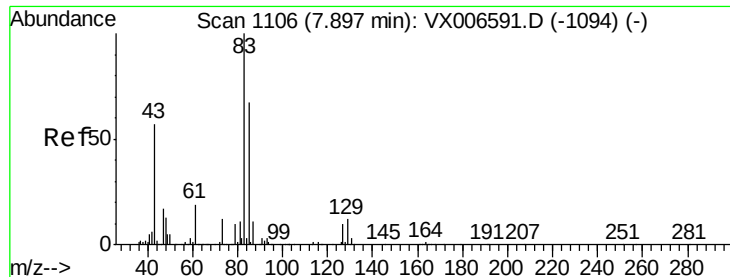
Tot Ion: 75 Resp: 44577
 Ion Ratio Lower Upper
 75 100
 110 11.2 20.2 60.5#
 77 0.7 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.420 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX006667.D
 Acq: 20 Dec 2018 11:21

Tgt Ion: 117 Resp: 61107
 Ion Ratio Lower Upper
 117 100
 119 4.9 79.4 119.2#
 121 0.0 24.0 36.0#





#47

Bromodichloromethane

Concen: 2.510 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

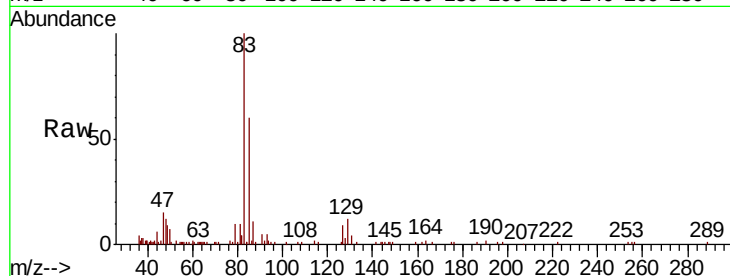
Tot Ion: 83 Resp: 19216

Ion Ratio Lower Upper

83 100

85 60.1 53.2 79.8

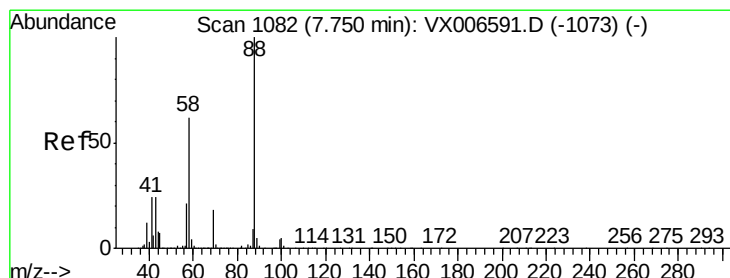
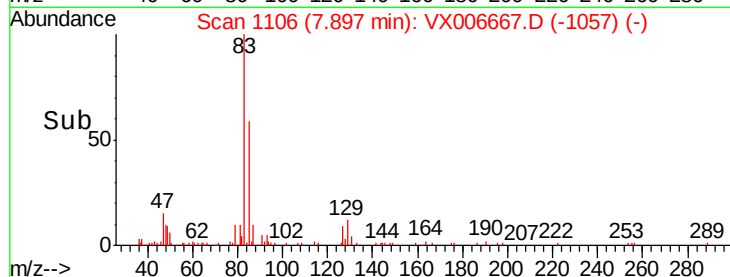
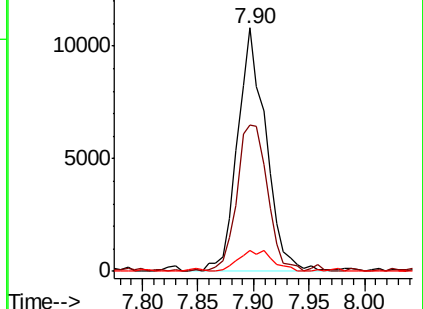
127 8.1 7.8 11.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

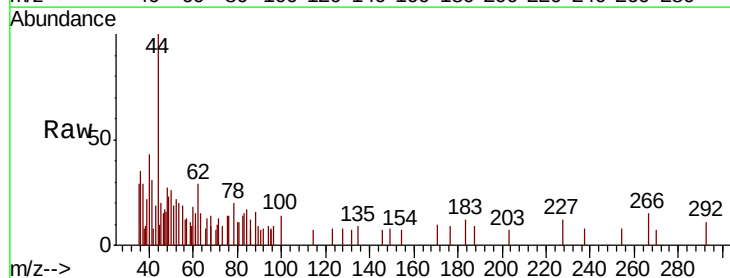
Tgt Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

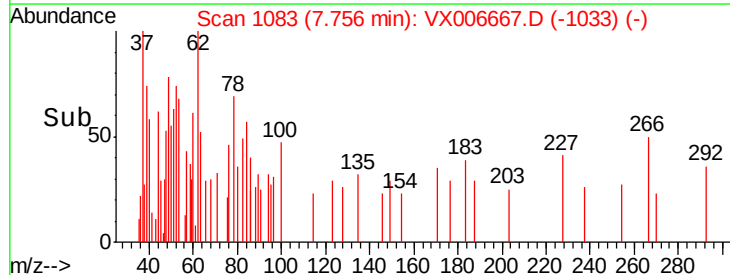
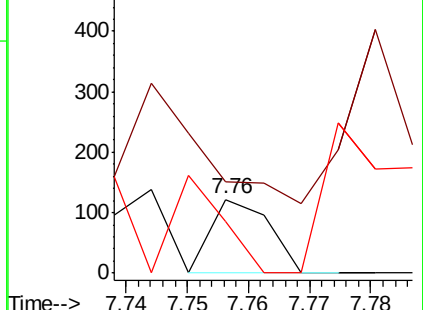
58 0.0 51.0 76.4#

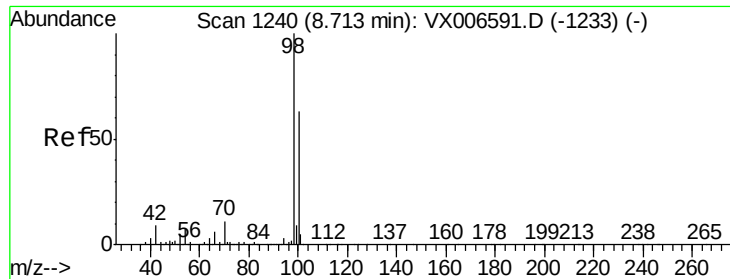


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.742 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

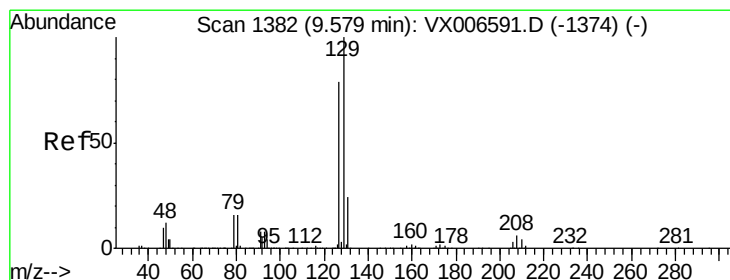
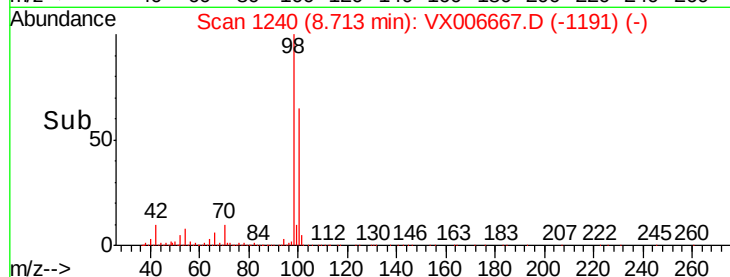
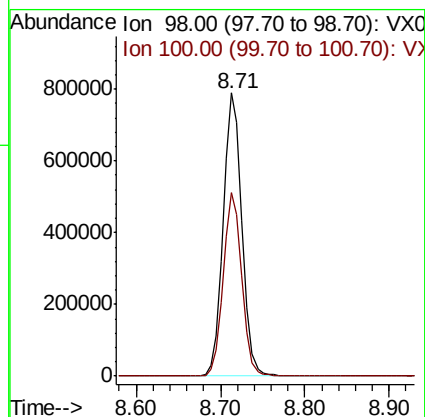
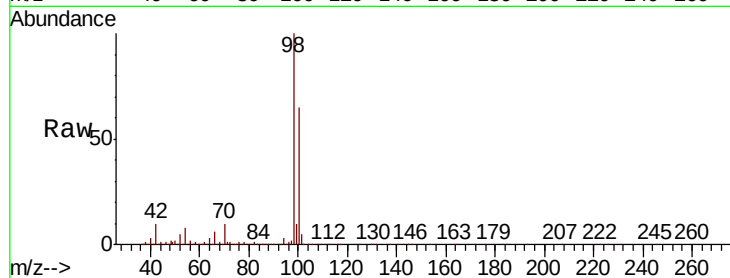
QNWP8-EQUIP.BLANK

Tot Ion: 98 Resp: 1213381

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



#60

Dibromochloromethane

Concen: 2.436 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX006667.D

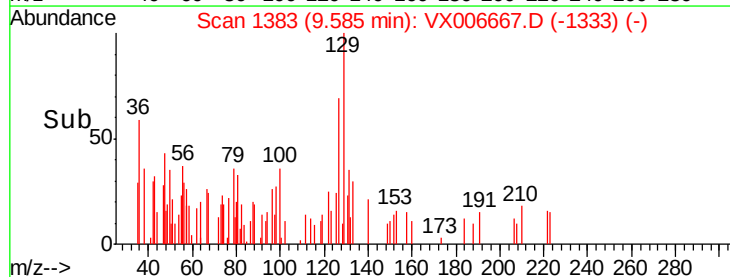
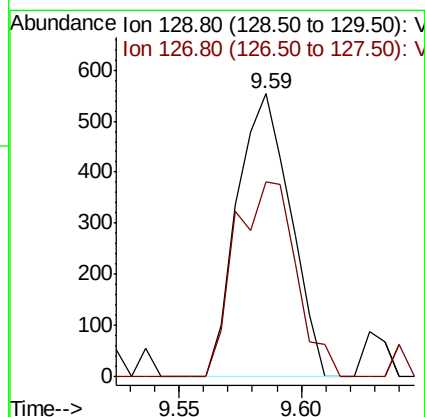
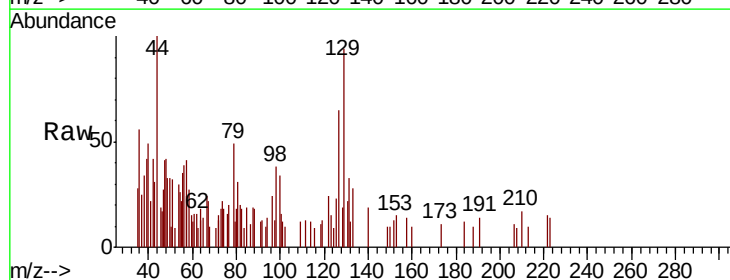
Acq: 20 Dec 2018 11:21

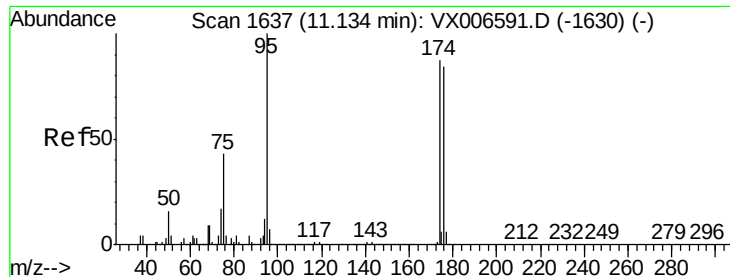
Tgt Ion: 129 Resp: 839

Ion Ratio Lower Upper

129 100

127 78.8 39.3 117.8

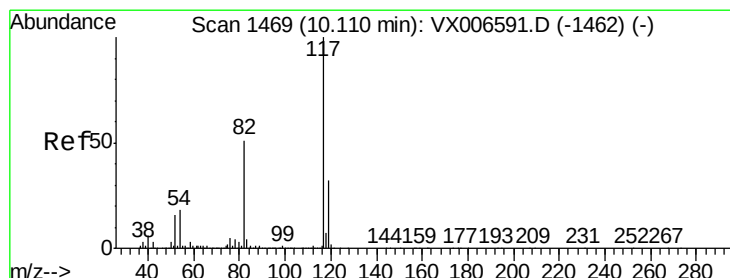
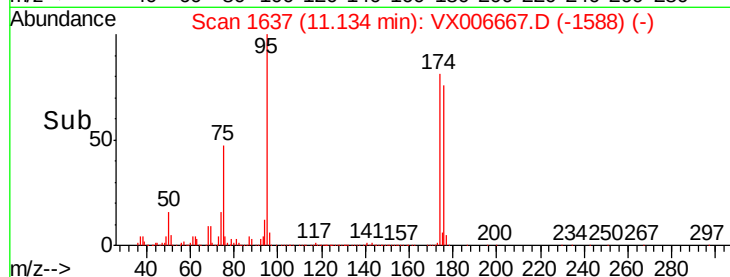
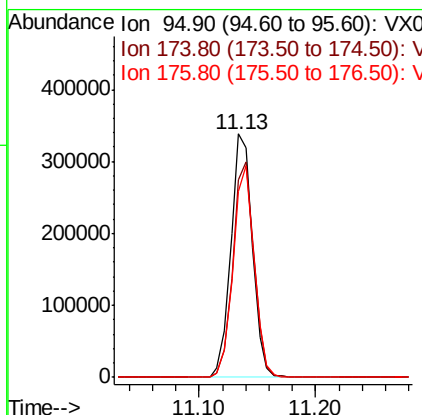
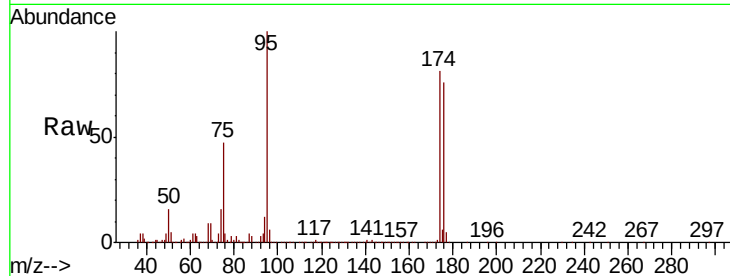




#62
4-Bromofluorobenzene
Concen: 49.003 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

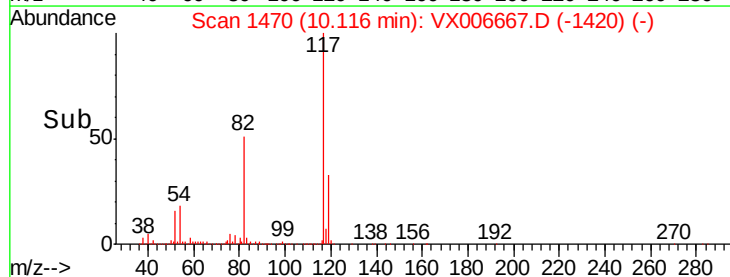
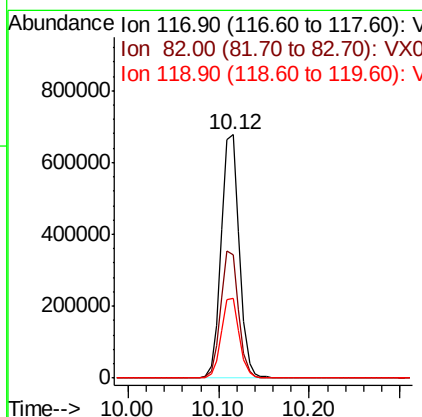
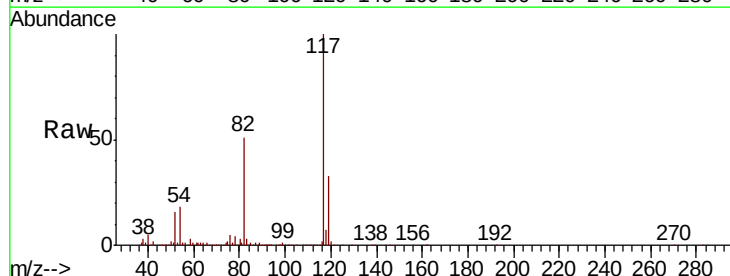
Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP.BLANK

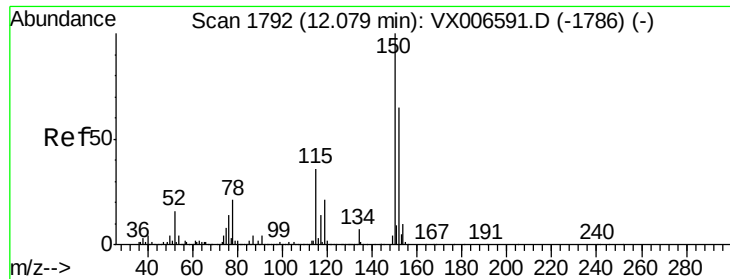
Tot Ion: 95 Resp: 437794
Ion Ratio Lower Upper
95 100
174 87.3 0.0 182.2
176 85.0 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

Tgt Ion: 117 Resp: 943087
Ion Ratio Lower Upper
117 100
82 50.6 41.0 61.6
119 32.7 25.4 38.0

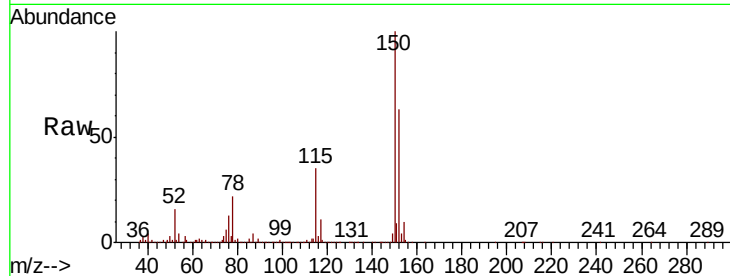




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX006667.D
 Acq: 20 Dec 2018 11:21

Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP.BLANK

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.9	39.1	117.2
150	158.3	0.0	344.8

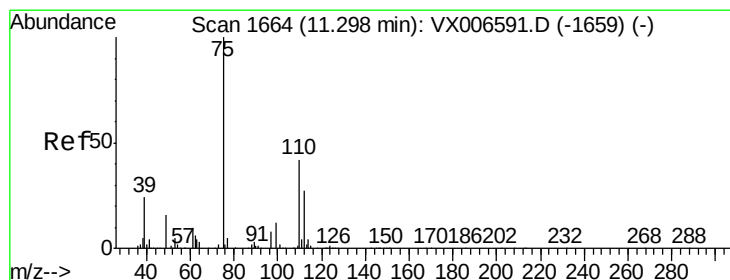
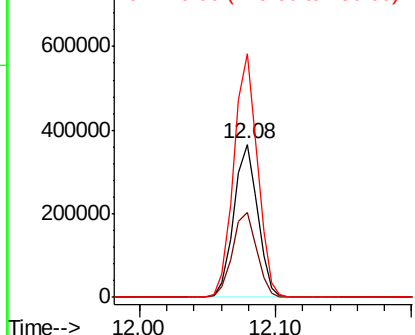
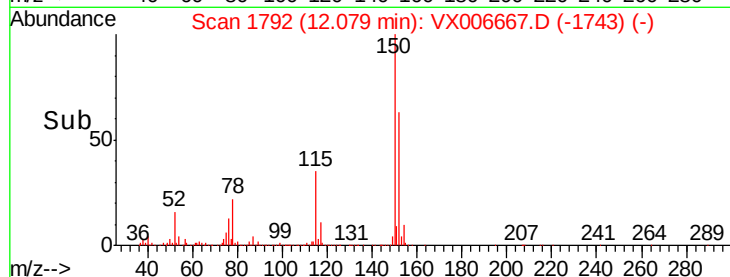


Abundance

Ion 151.90 (151.60 to 152.60): V

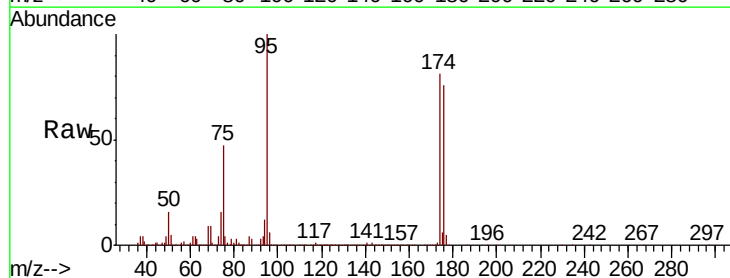
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76
 1,2,3-Trichloropropane
 Concen: 24.264 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006667.D
 Acq: 20 Dec 2018 11:21

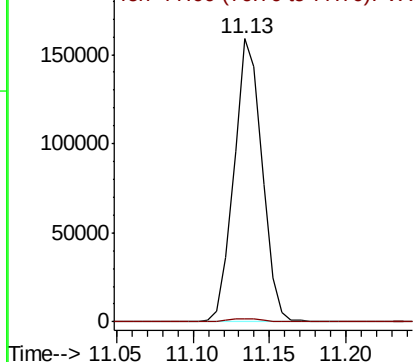
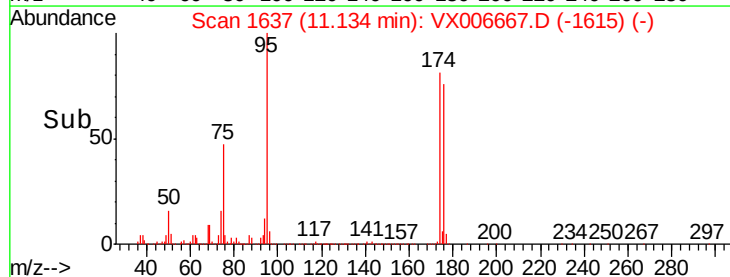
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.5	55.5#

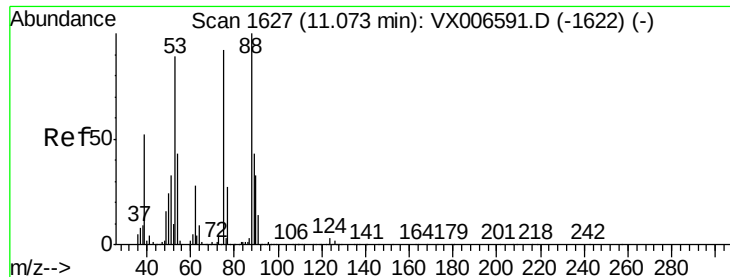


Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

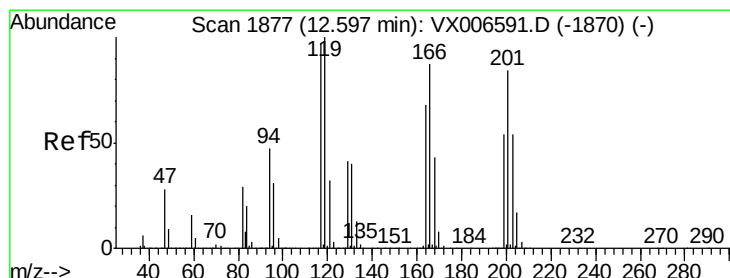
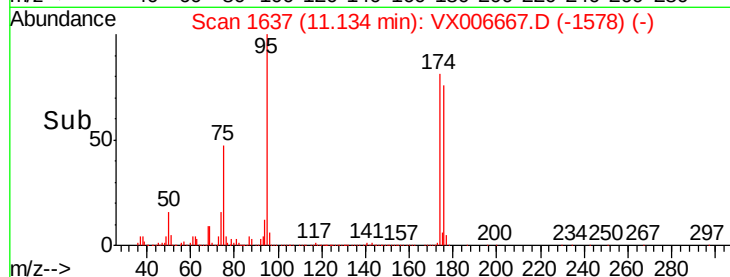
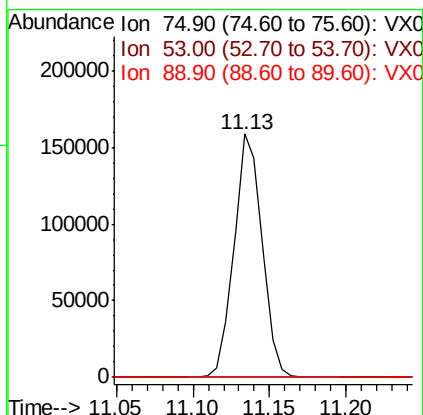
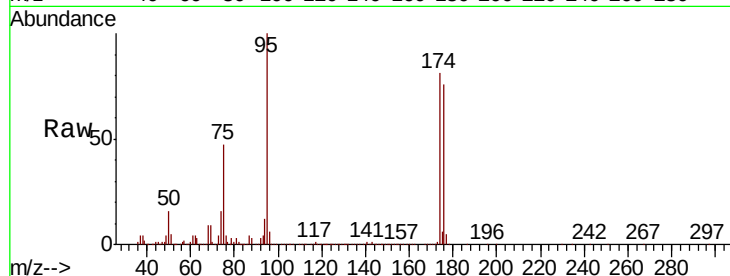




#81
trans-1,4-Dichloro-2-butene
Concen: 71.823 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

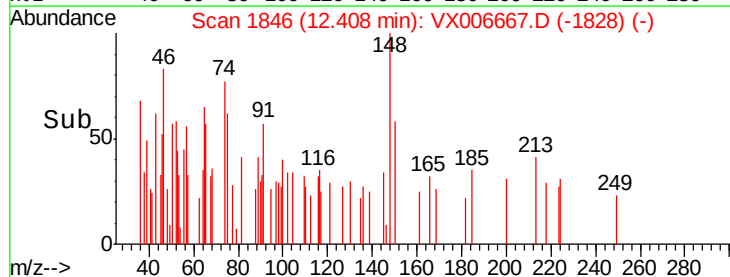
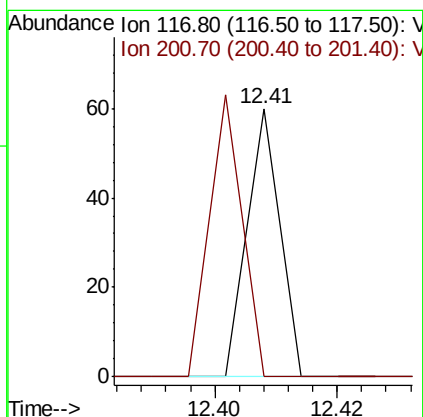
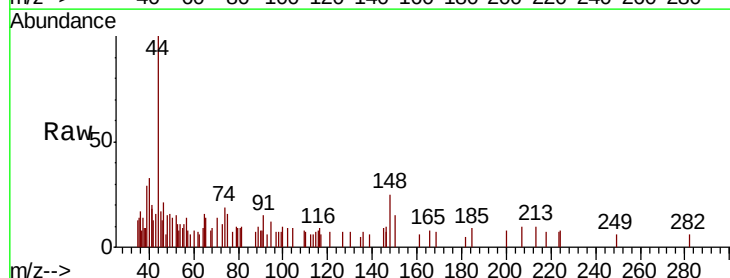
Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP.BLANK

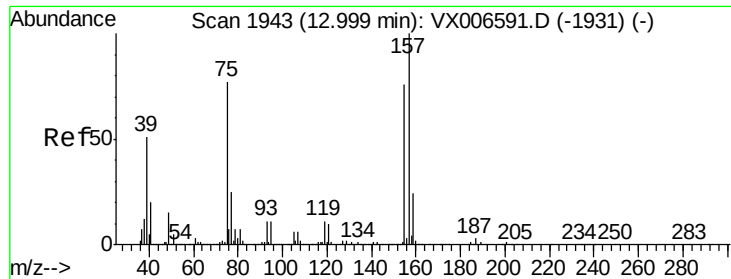
Tot Ion: 75 Resp: 201664
Ion Ratio Lower Upper
75 100
53 0.0 79.7 119.5#
89 0.1 38.0 57.0#



#90
Hexachloroethane
Concen: 3.298 ug/l
RT: 12.41 min Scan# 1846
Delta R.T. -0.19 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

Tgt Ion: 117 Resp: 22
Ion Ratio Lower Upper
117 100
201 104.5 42.9 128.7





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.201 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

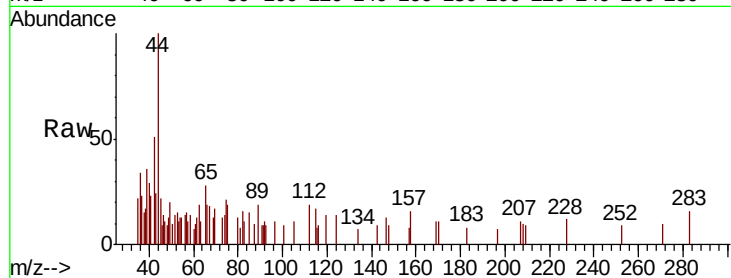
Tot Ion: 75 Resp: 379

Ion Ratio Lower Upper

75 100

155 0.0 50.6 151.8#

157 60.2 64.6 193.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

