

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041218\
 Data File : VX000798.D
 Acq On : 12 Apr 2018 13:33
 Operator : JC/MD
 Sample : J2307-04 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-PH3-ARE-01

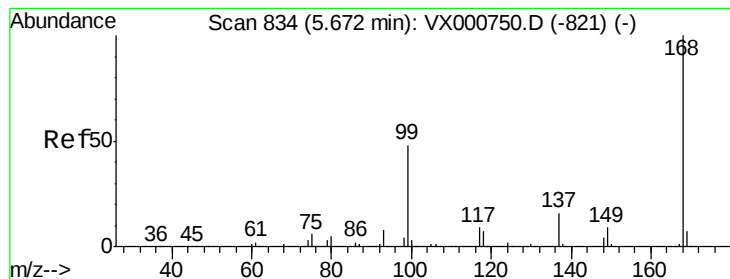
Quant Time: Apr 13 06:53:23 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	275731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355525	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	316022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	195316	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	155931	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
35) Dibromofluoromethane	5.51	113	129675	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	8.72	98	486306	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	11.15	95	182103	43.16	ug/l	0.00
Spiked Amount			Recovery	=	86.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	448	Below Cal	#	80
10) Methyl Iodide	2.53	142	450	8.41	ug/l #	88
15) Acrylonitrile	3.16	53	632	0.48	ug/l #	84
16) Acetone	2.45	43	5092	4.25	ug/l	92
17) Carbon Disulfide	2.57	76	2142	0.28	ug/l	98
20) Methylene Chloride	2.86	84	27370	9.82	ug/l	97
25) 2-Butanone	4.73	43	1325	0.67	ug/l #	76
29) Tetrahydrofuran	5.18	42	303	0.24	ug/l #	57
30) Chloroform	5.23	83	2019	0.40	ug/l	87
31) Cyclohexane	5.68	56	4836	1.06	ug/l #	13
36) 1,1-Dichloropropene	5.67	75	16291	4.16	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23024	5.25	ug/l #	14
43) Isopropyl Acetate	6.48	43	2784	0.42	ug/l	95
47) Bromodichloromethane	7.91	83	910	0.23	ug/l #	87
59) 2-Hexanone	9.55	43	644	0.22	ug/l	69
64) Tetrachloroethene	9.34	164	4703	1.52	ug/l	96
74) N-amyl acetate	6.48	43	2784	0.50	ug/l #	93
76) 1,2,3-Trichloropropane	11.15	75	89006	26.42	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	89006	72.69	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.82	105	2546	0.23	ug/l	97
93) 1,2,4-Trichlorobenzene	13.65	180	1180	0.21	ug/l	96
95) Naphthalene	13.84	128	152352	10.72	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

ClientSampled :

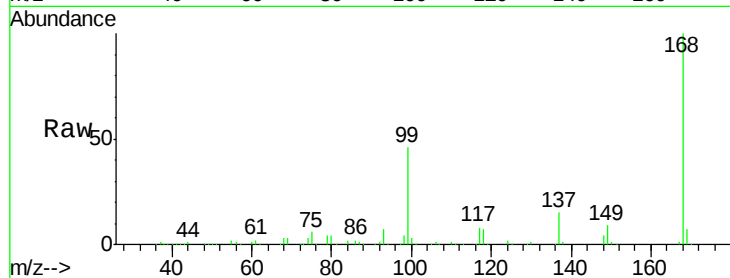
WC-PH3-ARE-01

Tgt Ion: 168 Resp: 275731

Ion Ratio Lower Upper

168 100

99 46.4 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

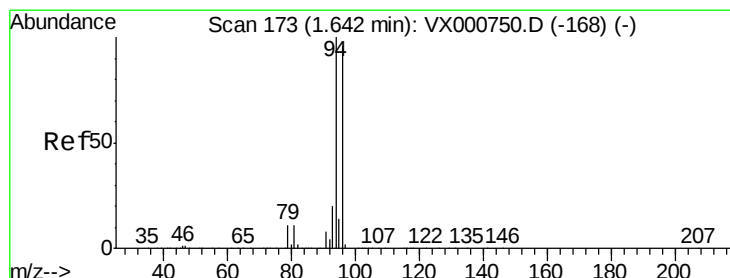
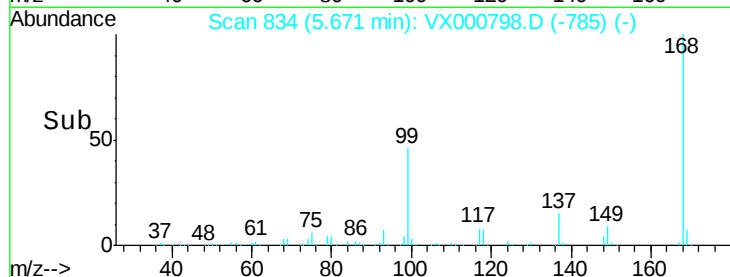
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000798.D

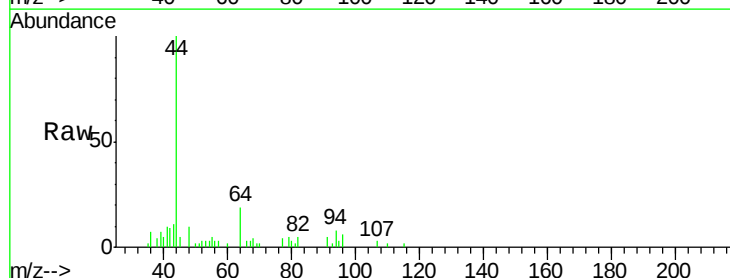
Acq: 12 Apr 2018 13:33

Tgt Ion: 94 Resp: 448

Ion Ratio Lower Upper

94 100

96 76.8 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

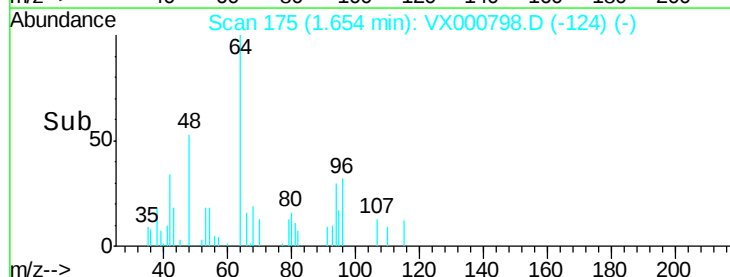
300

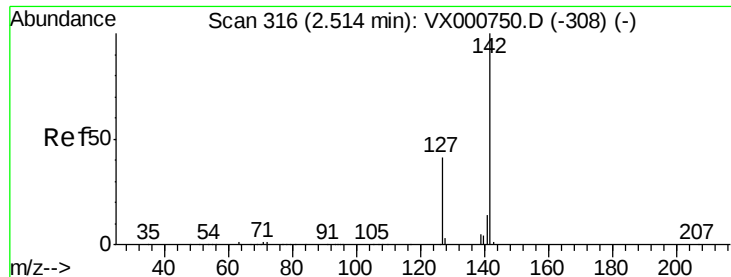
200

100

0

Time--> 1.62 1.64 1.66 1.68





#10

Methyl Iodide

Concen: 8.41 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

ClientSampleId :

WC-PH3-ARE-01

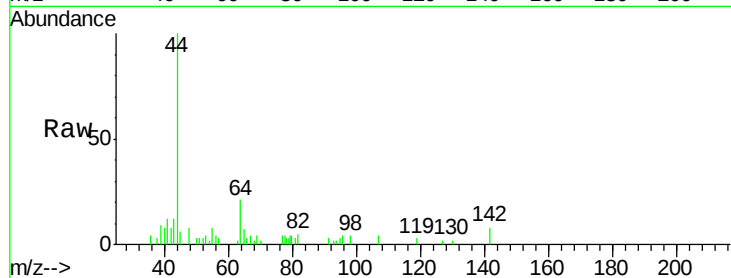
Tgt Ion:142 Resp: 450

Ion Ratio Lower Upper

142 100

127 43.6 32.6 49.0

141 0.0 11.5 17.3#



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

2.53

200

150

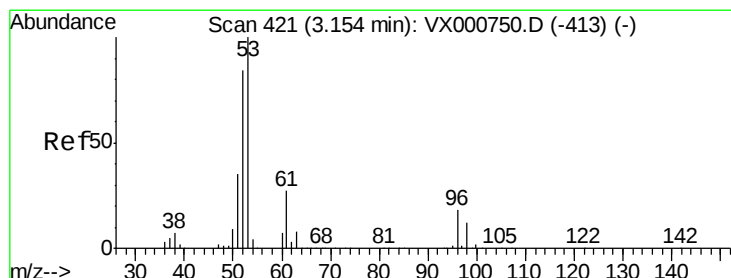
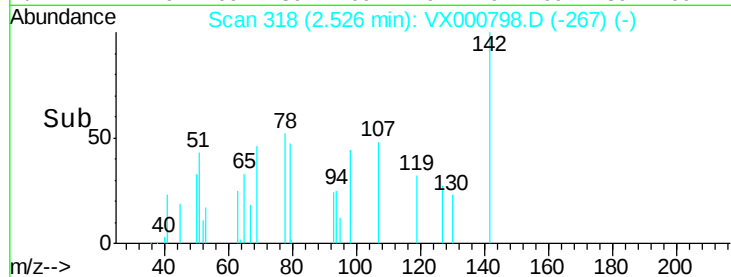
100

50

0

2.45 2.50 2.55

Time-->



#15

Acrylonitrile

Concen: 0.48 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

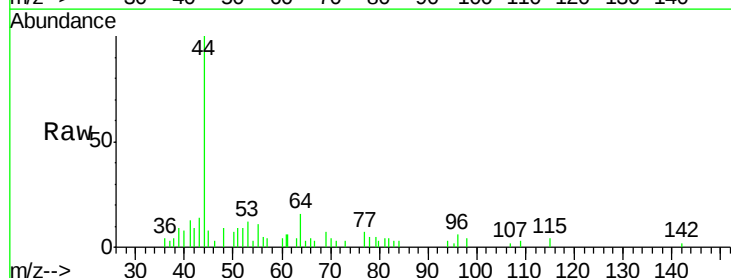
Tgt Ion: 53 Resp: 632

Ion Ratio Lower Upper

53 100

52 98.1 66.5 99.7

51 43.8 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

3.16

400

300

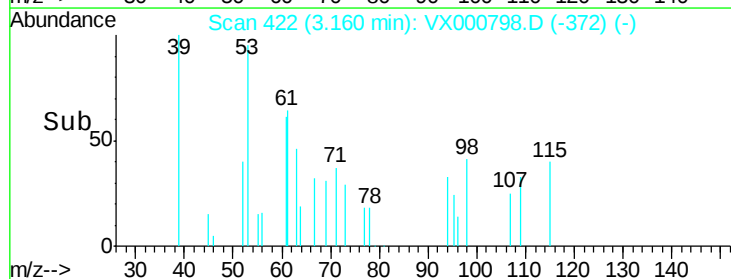
200

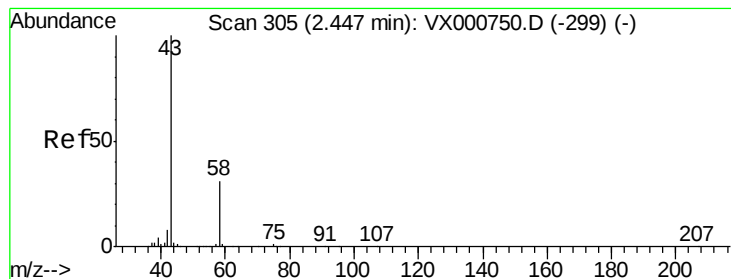
100

0

3.10 3.15 3.20

Time-->





#16

Acetone

Concen: 4.25 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

ClientSampleId :

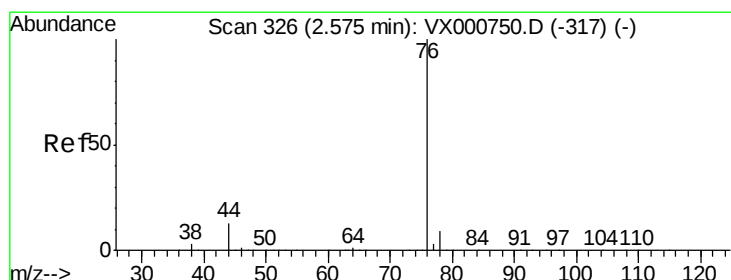
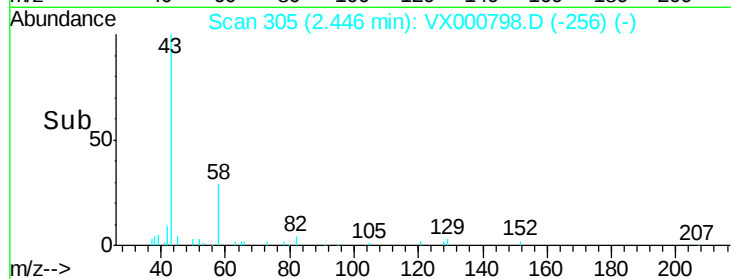
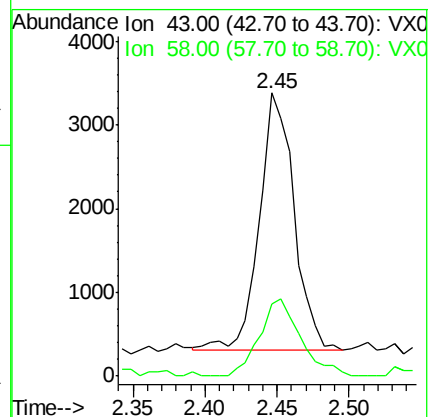
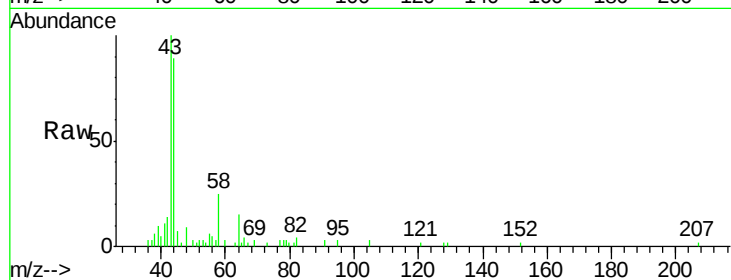
WC-PH3-ARE-01

Tgt Ion: 43 Resp: 5092

Ion Ratio Lower Upper

43 100

58 26.1 24.6 37.0



#17

Carbon Disulfide

Concen: 0.28 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX000798.D

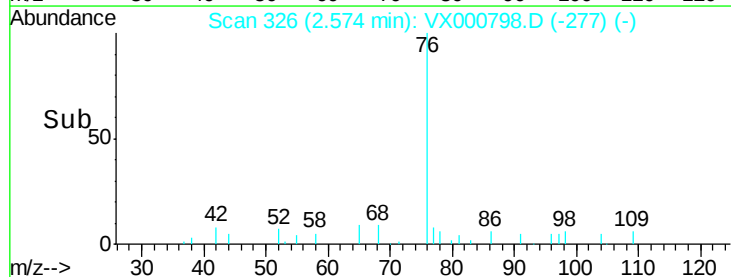
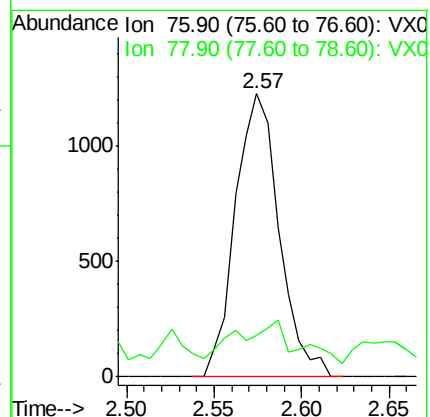
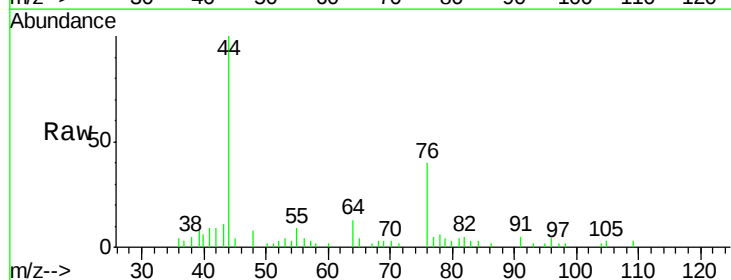
Acq: 12 Apr 2018 13:33

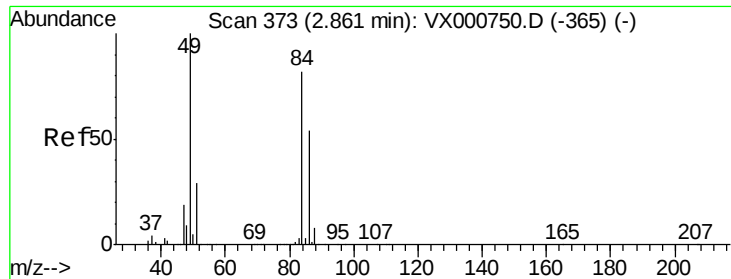
Tgt Ion: 76 Resp: 2142

Ion Ratio Lower Upper

76 100

78 10.0 7.4 11.2

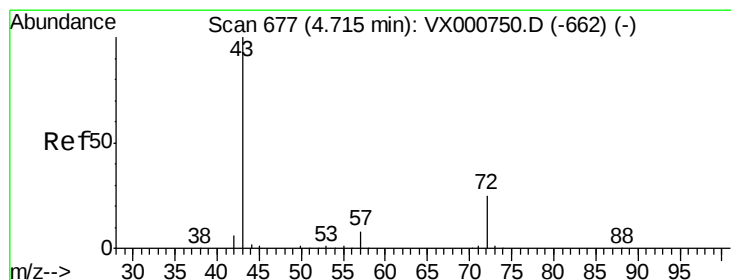
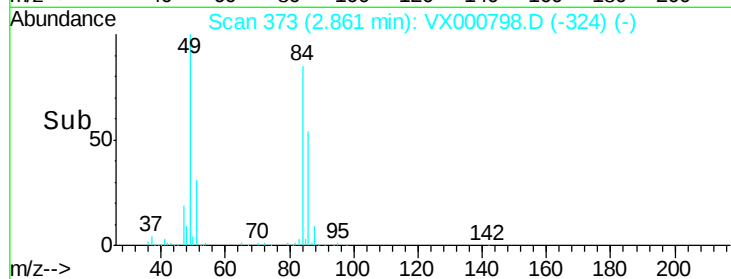
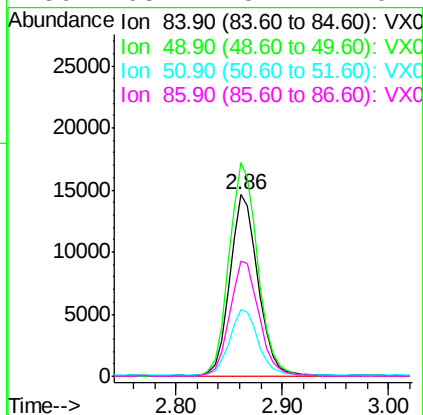
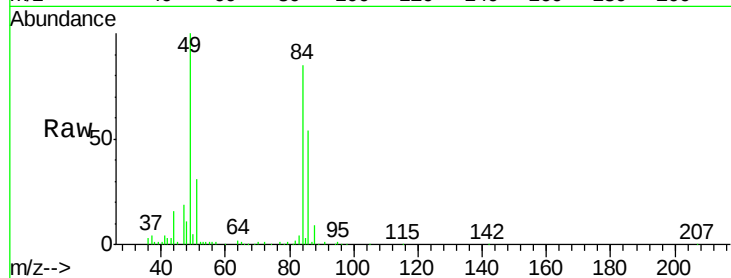




#20
Methylene Chloride
Concen: 9.82 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

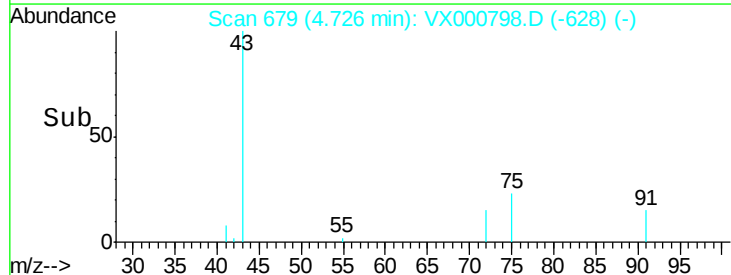
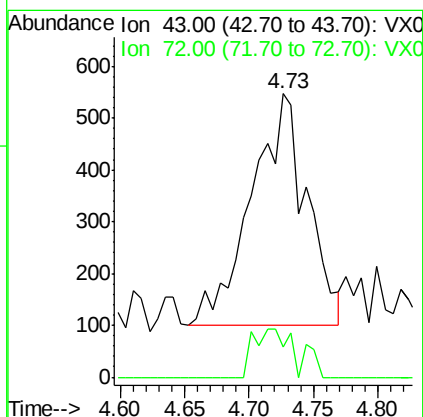
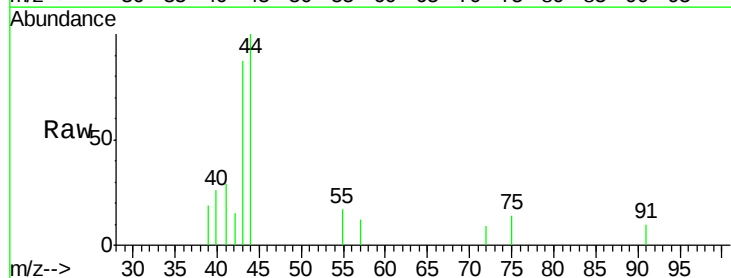
Instrument :
MSVOA_X
ClientSampled :
WC-PH3-ARE-01

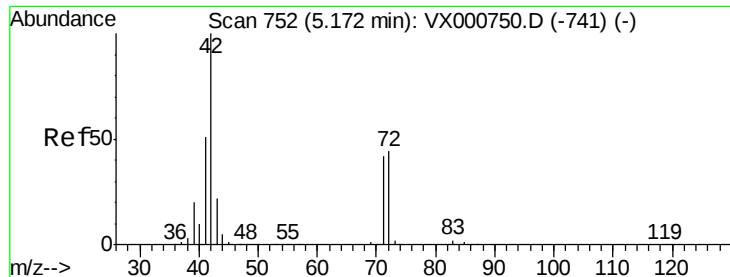
Tgt Ion:	84	Resp:	27370
Ion	Ratio	Lower	Upper
84	100		
49	117.8	98.1	147.1
51	35.9	28.9	43.3
86	63.7	52.7	79.1



#25
2-Butanone
Concen: 0.67 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

Tgt Ion:	43	Resp:	1325
Ion	Ratio	Lower	Upper
43	100		
72	13.2	20.3	30.5#

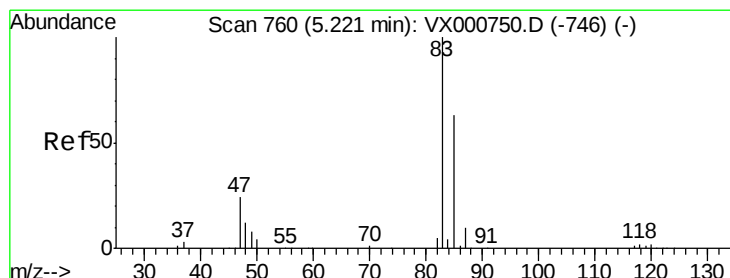
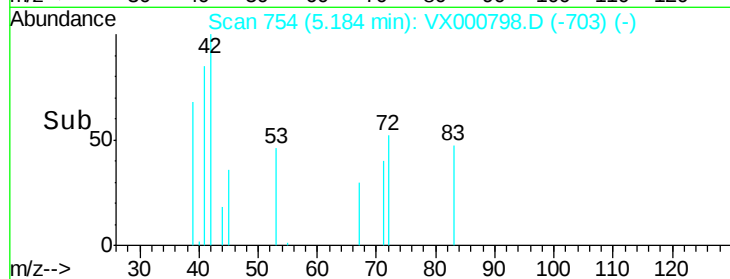
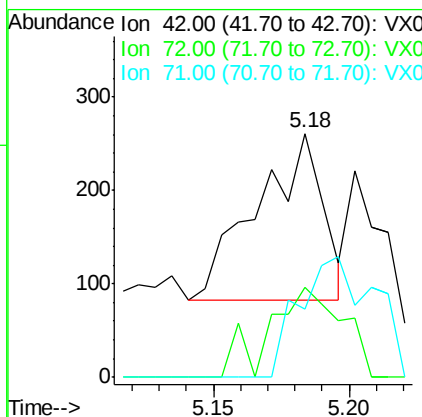
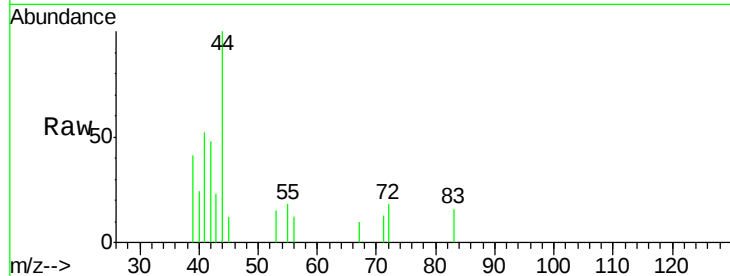




#29
Tetrahydrofuran
Concen: 0.24 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.01 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

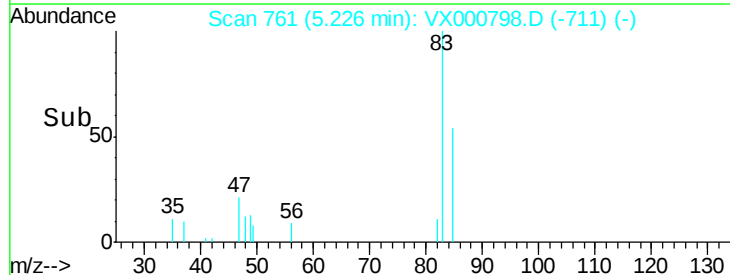
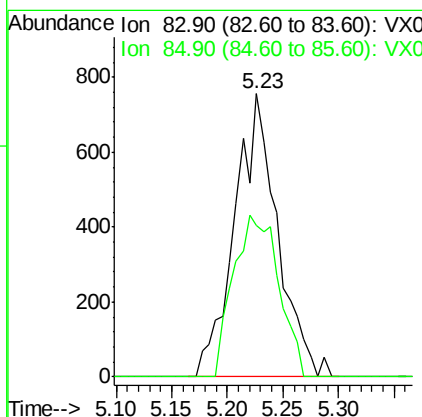
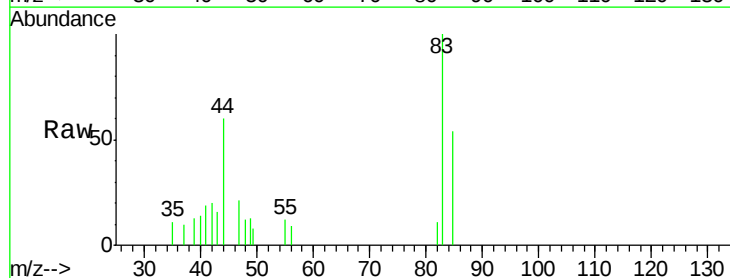
Instrument :
MSVOA_X
ClientSampleId :
WC-PH3-ARE-01

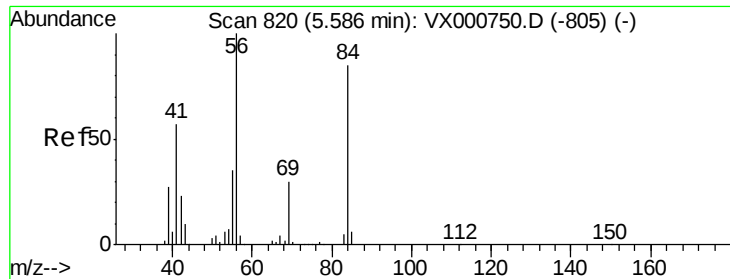
Tgt Ion: 42 Resp: 303
Ion Ratio Lower Upper
42 100
72 59.4 35.1 52.7#
71 80.5 32.8 49.2#



#30
Chloroform
Concen: 0.40 ug/l
RT: 5.23 min Scan# 761
Delta R.T. 0.01 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

Tgt Ion: 83 Resp: 2019
Ion Ratio Lower Upper
83 100
85 53.6 50.7 76.1

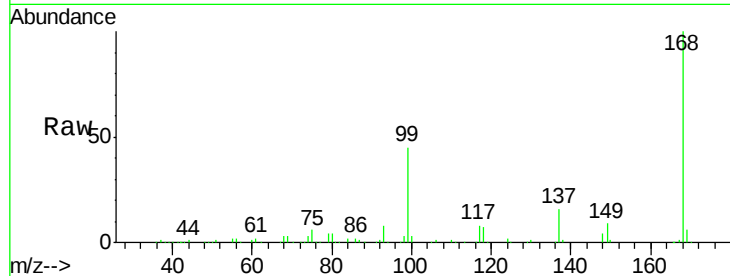




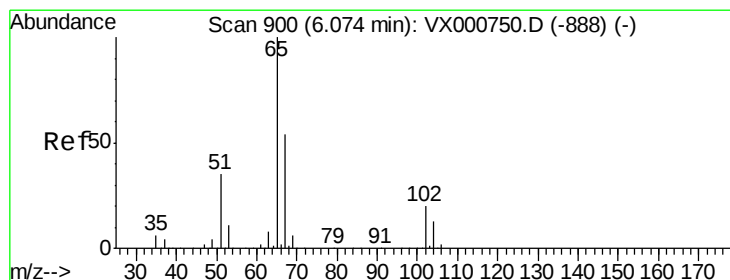
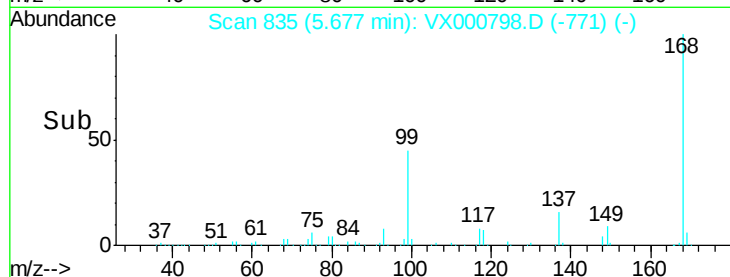
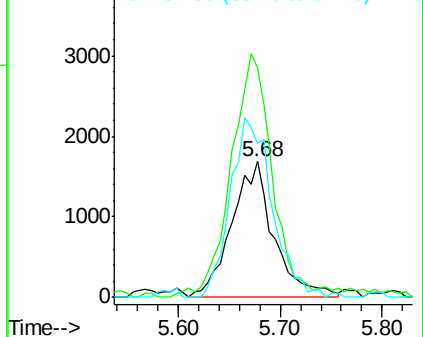
#31
Cyclohexane
Concen: 1.06 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.09 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

Instrument :
MSVOA_X
ClientSampleId :
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Tgt Ion: 56 Resp: 4836
Ion Ratio Lower Upper
56 100
69 162.0 24.2 36.4#
84 113.2 67.6 101.4#

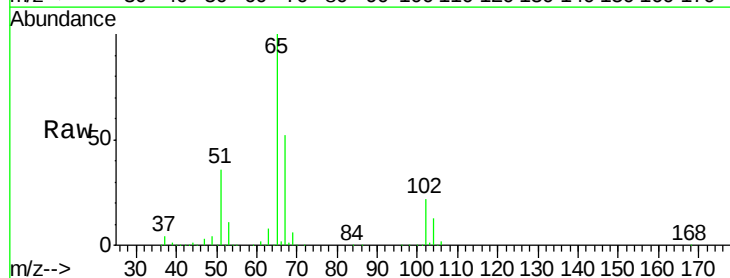


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

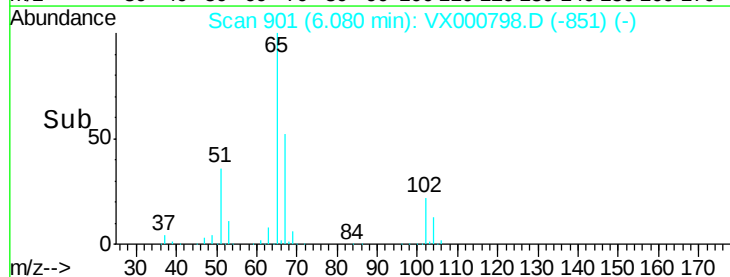
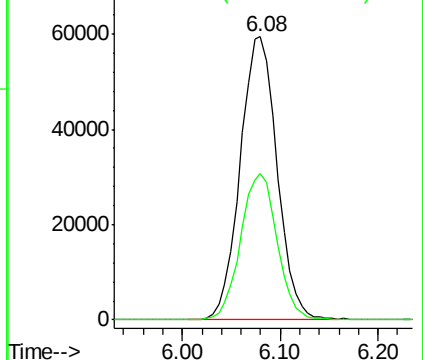


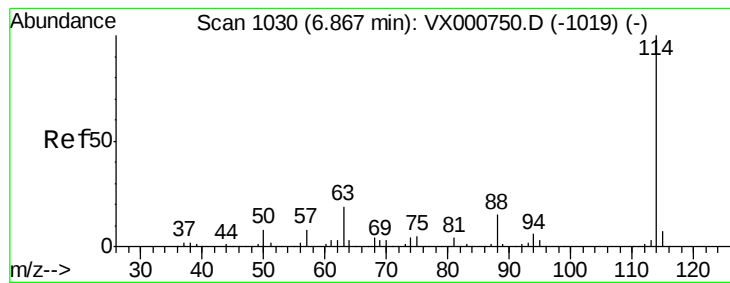
#33
1,2-Dichloroethane-d4
Concen: 44.85 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.01 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

Tgt Ion: 65 Resp: 155931
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.8



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# 1031

Delta R.T. 0.01 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

ClientSampleId :

WC-PH3-ARE-01

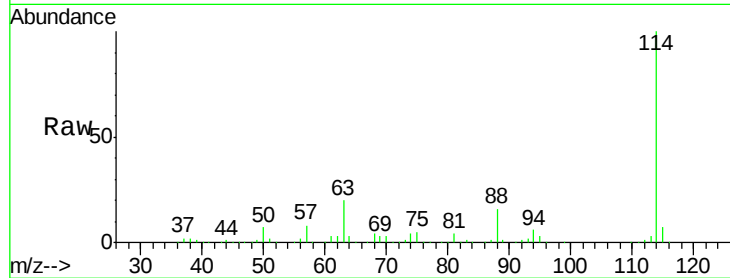
Tgt Ion:114 Resp: 35525

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

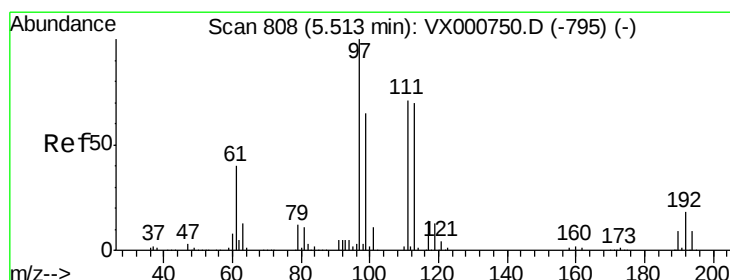
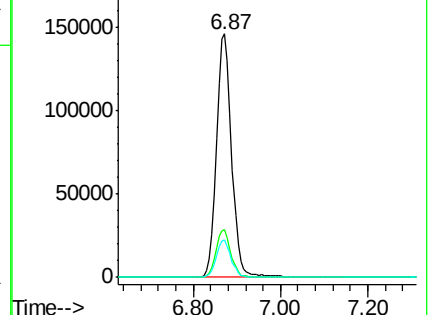
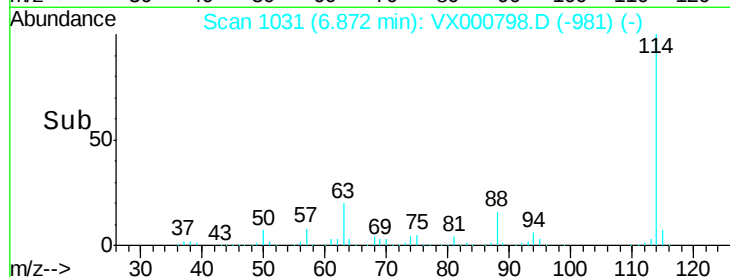
88 15.5 0.0 31.0



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: 47.34 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

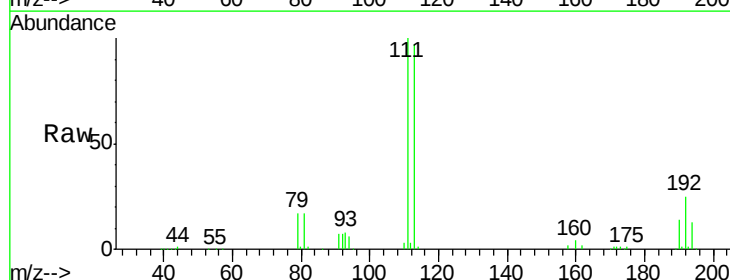
Tgt Ion:113 Resp: 129675

Ion Ratio Lower Upper

113 100

111 101.2 81.5 122.3

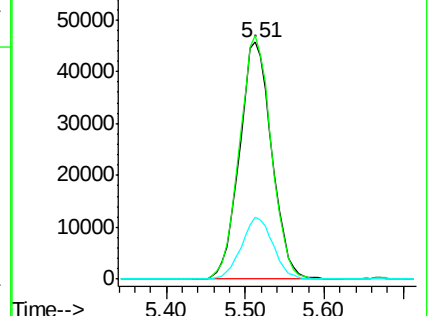
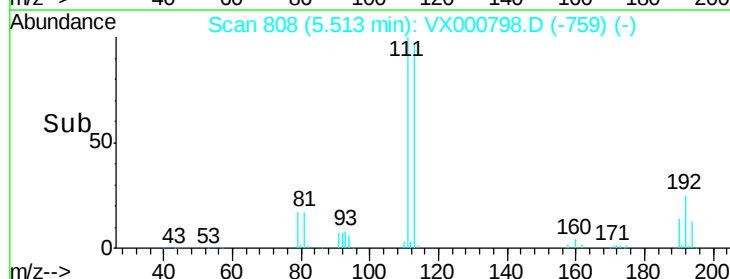
192 25.6 20.4 30.6

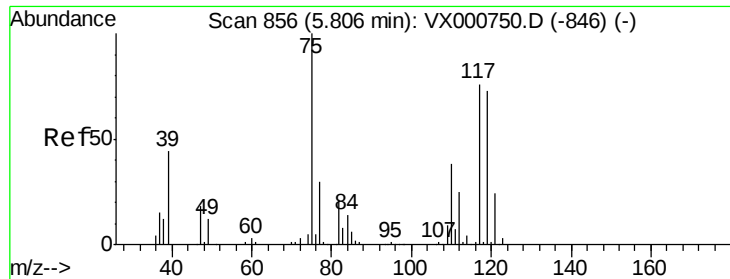


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

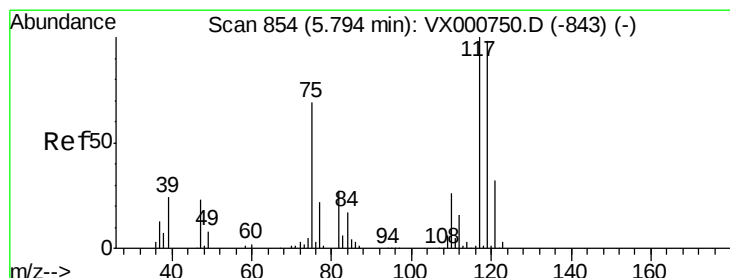
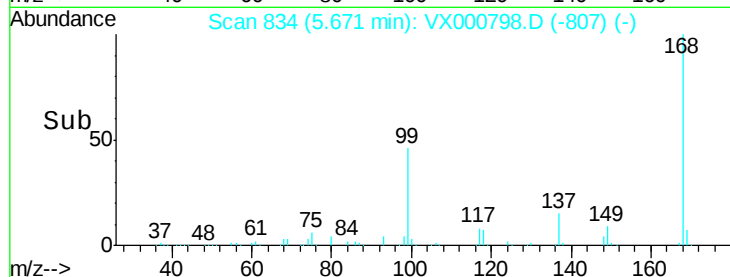
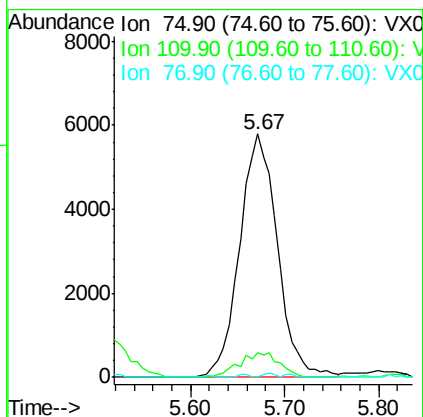
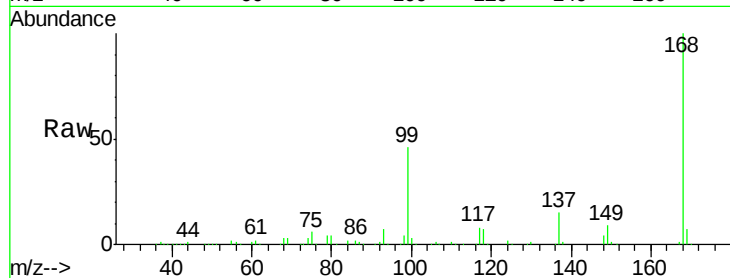




#36
 1,1-Dichloropropene
 Concen: 4.16 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX000798.D
 Acq: 12 Apr 2018 13:33

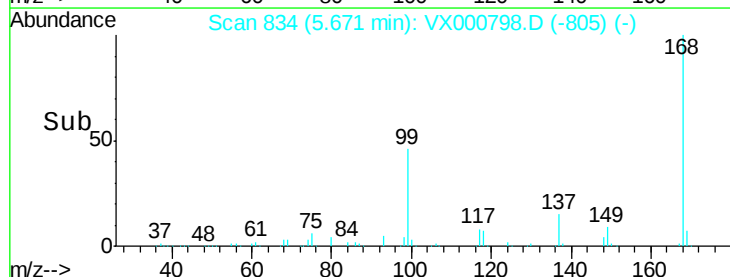
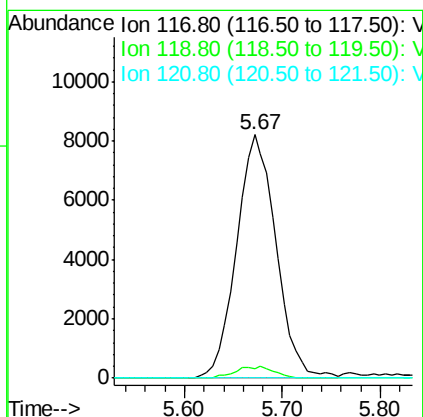
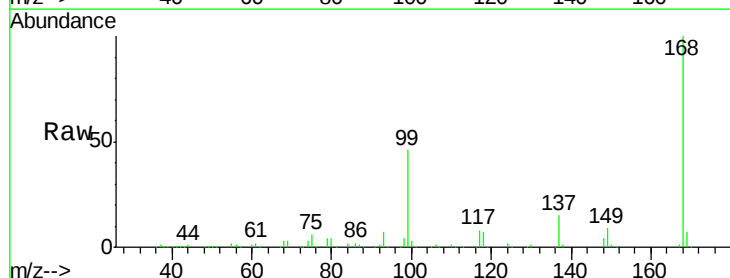
Instrument :
 MSVOA_X
 ClientSampleId :
 WC-PH3-ARE-01

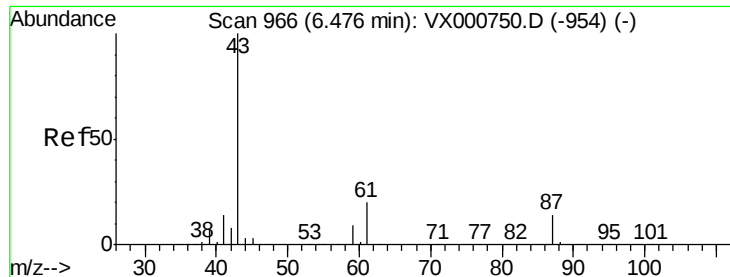
Tgt Ion: 75 Resp: 16291
 Ion Ratio Lower Upper
 75 100
 110 10.7 19.2 57.6#
 77 0.5 25.4 38.2#



#38
 Carbon Tetrachloride
 Concen: 5.25 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000798.D
 Acq: 12 Apr 2018 13:33

Tgt Ion: 117 Resp: 23024
 Ion Ratio Lower Upper
 117 100
 119 4.1 78.4 117.6#
 121 0.0 25.4 38.0#





#43

Isopropyl Acetate

Concen: 0.42 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

ClientSampleId :

WC-PH3-ARE-01

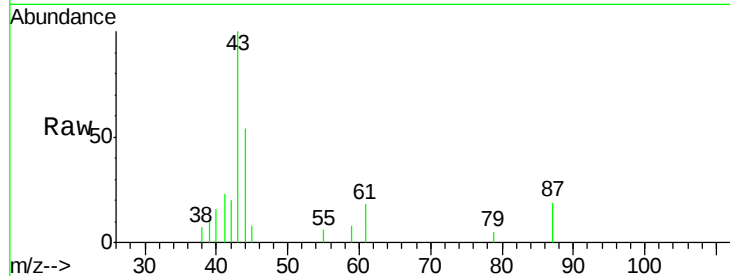
Tgt Ion: 43 Resp: 2784

Ion Ratio Lower Upper

43 100

61 16.2 15.6 23.4

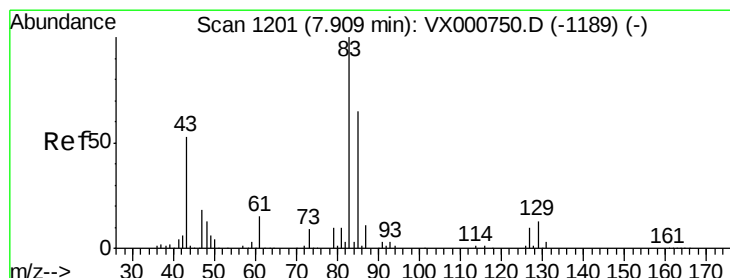
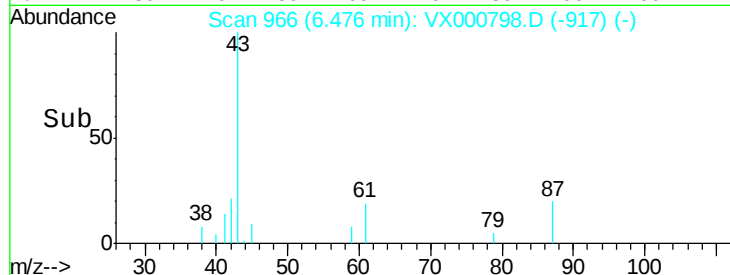
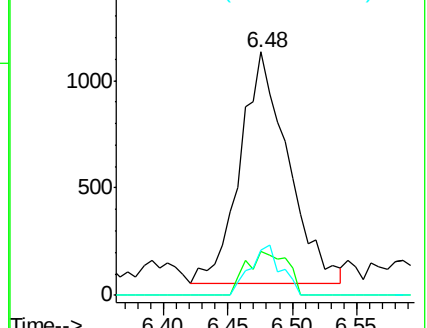
87 13.9 10.7 16.1



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



#47

Bromodichloromethane

Concen: 0.23 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

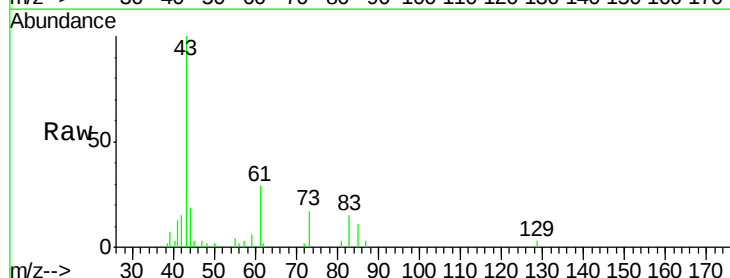
Tgt Ion: 83 Resp: 910

Ion Ratio Lower Upper

83 100

85 73.7 52.2 78.4

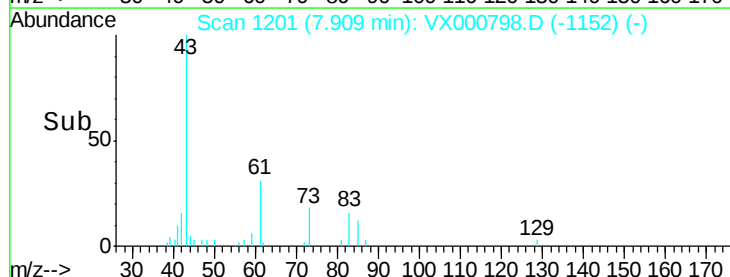
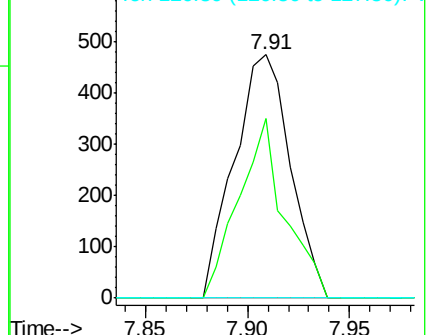
127 0.0 7.8 11.8#

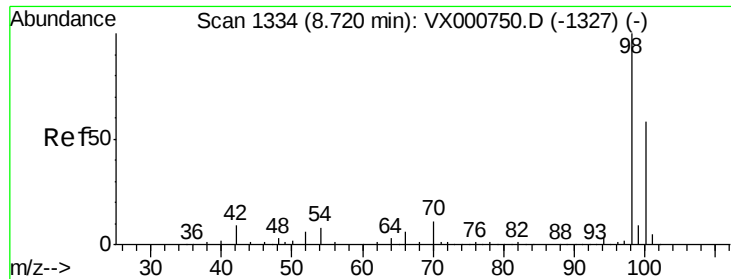


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

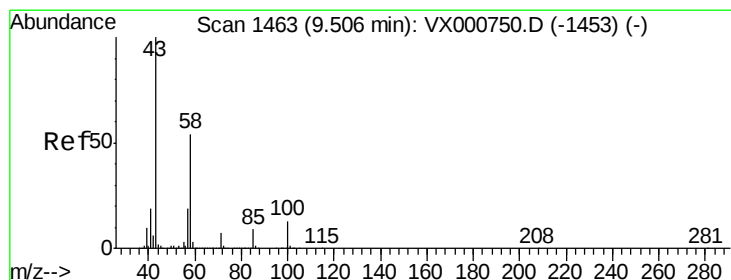
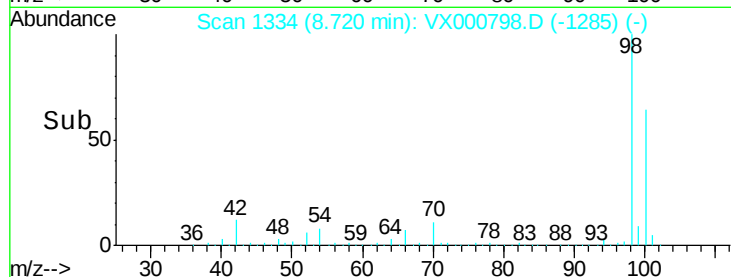
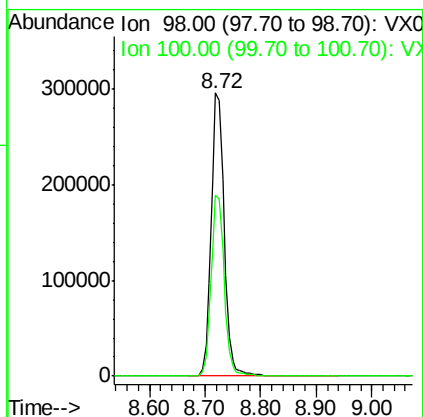
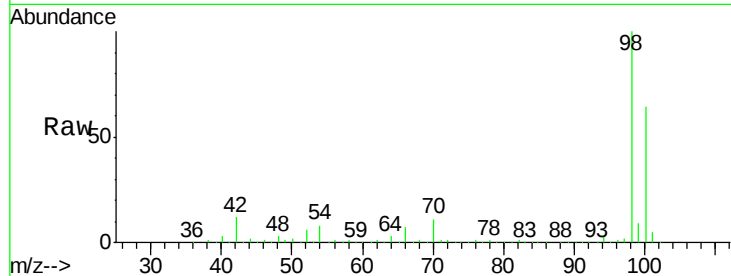




#50
Toluene-d8
Concen: 47.68 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

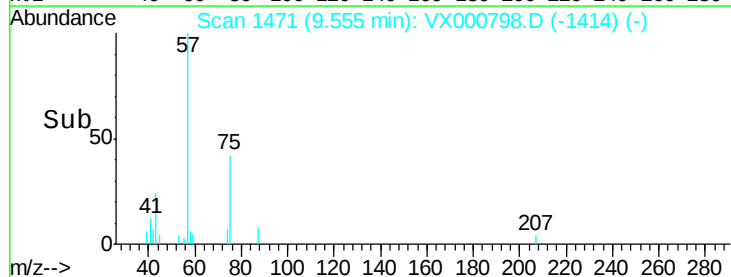
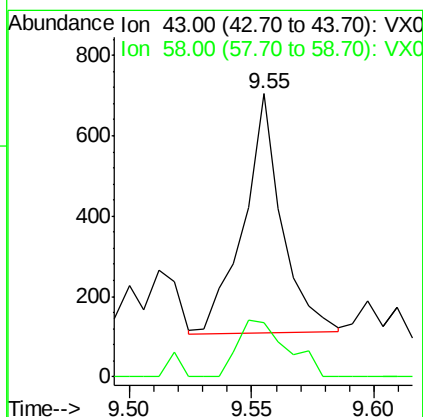
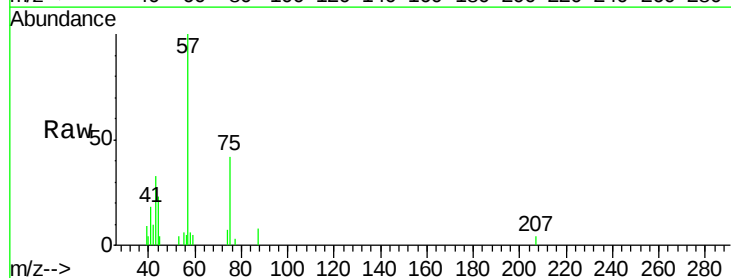
Instrument :
MSVOA_X
ClientSampleId :
WC-PH3-ARE-01

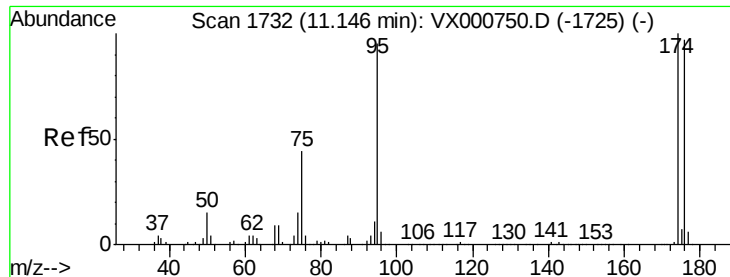
Tgt Ion: 98 Resp: 486306
Ion Ratio Lower Upper
98 100
100 64.3 52.6 79.0



#59
2-Hexanone
Concen: 0.22 ug/l
RT: 9.55 min Scan# 1471
Delta R.T. 0.05 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

Tgt Ion: 43 Resp: 644
Ion Ratio Lower Upper
43 100
58 30.9 26.5 79.5





#62

4-Bromofluorobenzene

Concen: 43.16 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

ClientSampleId :

WC-PH3-ARE-01

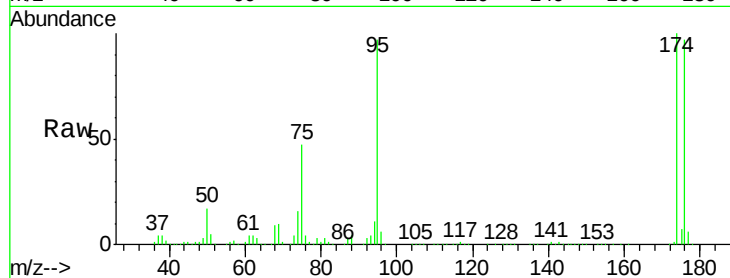
Tgt Ion: 95 Resp: 182103

Ion Ratio Lower Upper

95 100

174 98.1 0.0 198.4

176 95.6 0.0 194.4

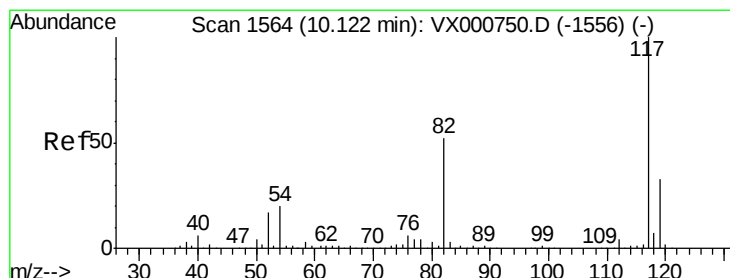
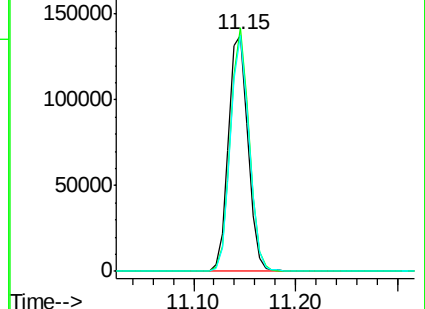
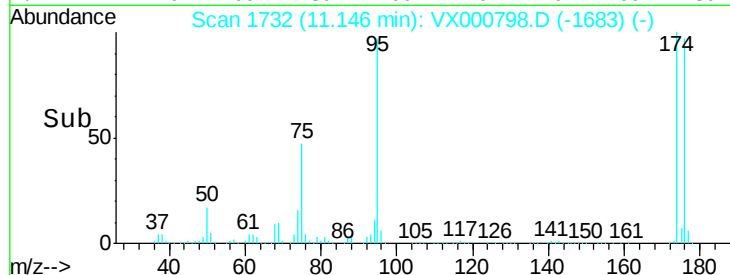


Abundance Ion 94.90 (94.60 to 95.60): VX000750.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX000750.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000750.D (-1725) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

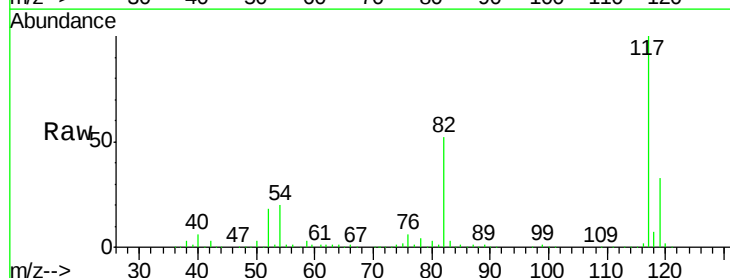
Tgt Ion: 117 Resp: 316022

Ion Ratio Lower Upper

117 100

82 52.1 41.9 62.9

119 32.6 26.0 39.0

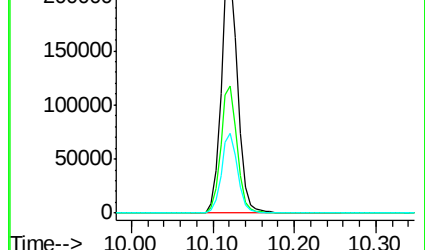
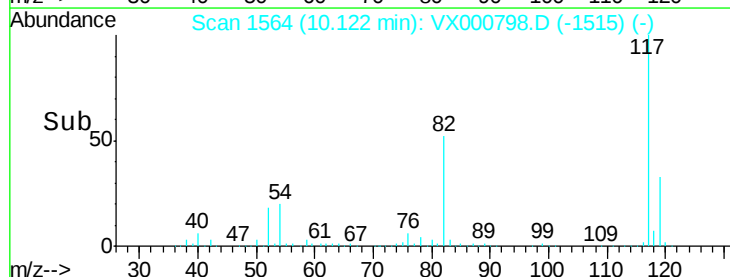


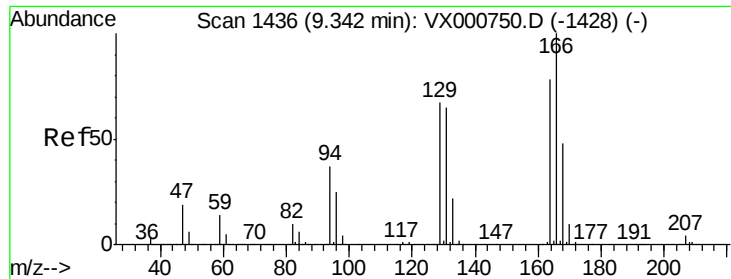
Abundance Ion 116.90 (116.60 to 117.60): VX000750.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX000750.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX000750.D (-1556) (-)

Time-->





#64

Tetrachloroethene

Concen: 1.52 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

ClientSampleId :

WC-PH3-ARE-01

Tgt Ion:164 Resp: 4703

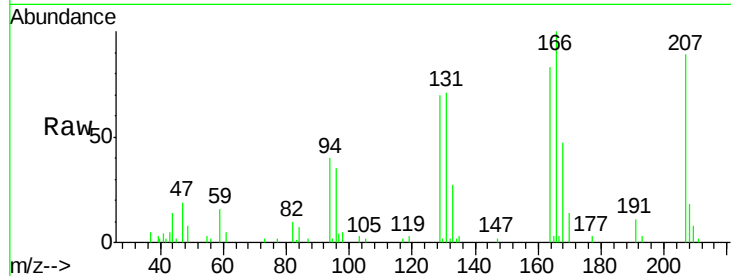
Ion Ratio Lower Upper

164 100

166 120.8 102.8 154.2

129 84.9 68.5 102.7

131 85.6 66.6 100.0

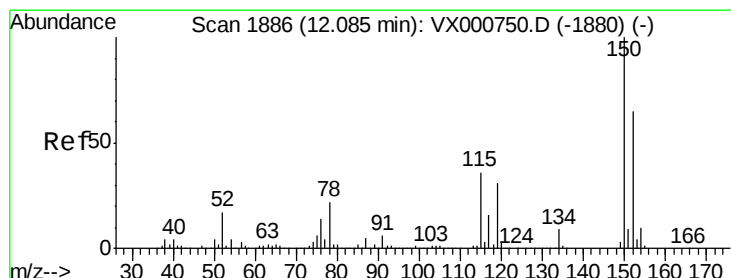
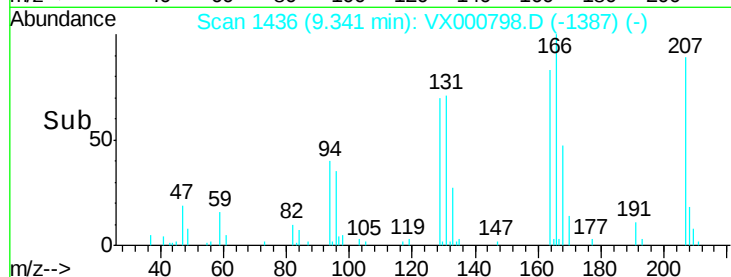
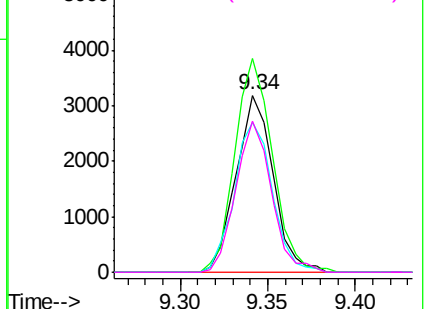


Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

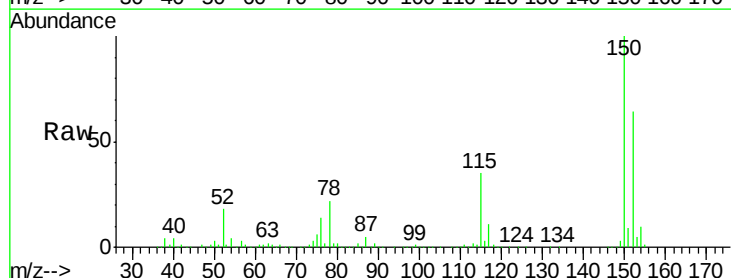
Tgt Ion:152 Resp: 195316

Ion Ratio Lower Upper

152 100

115 53.6 37.9 113.7

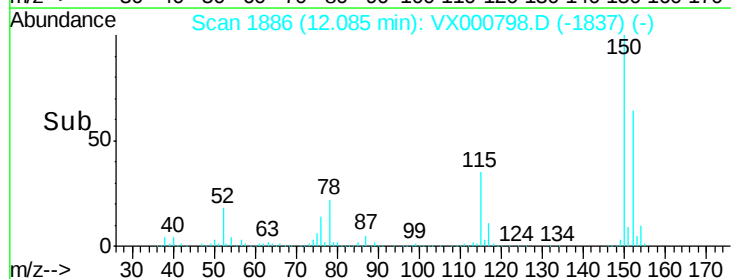
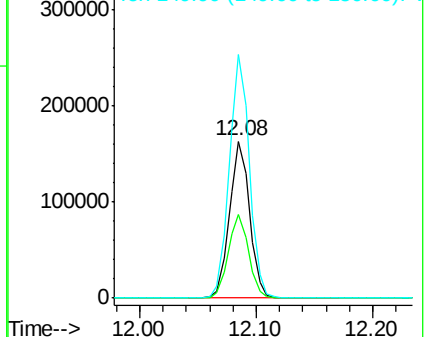
150 155.3 0.0 348.0

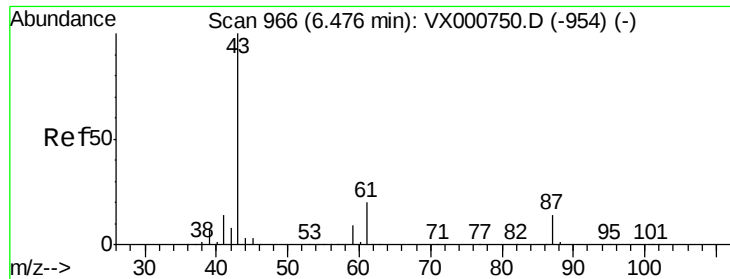


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.50 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Instrument :

MSVOA_X

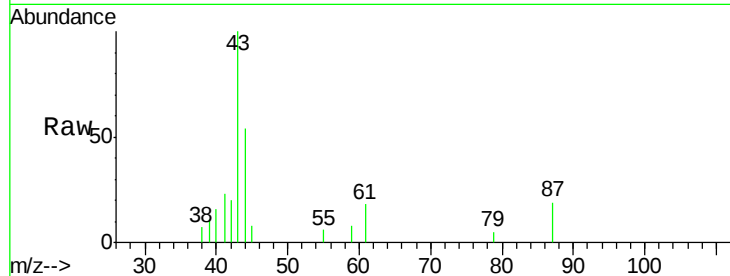
ClientSampled :

WC-PH3-ARE-01

Tgt Ion: 43 Resp: 2784

Ion Ratio Lower Upper

43	100		
70	0.0	0.0	0.0
55	1.4	0.0	0.0#
61	16.2	15.6	23.4

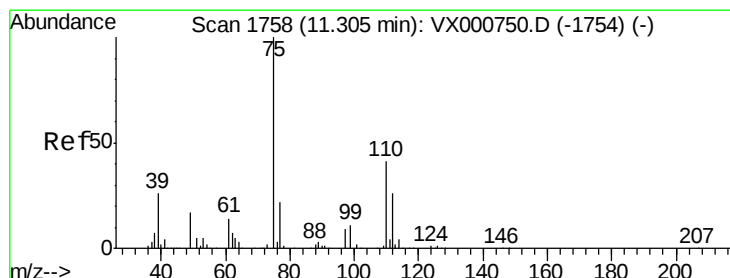
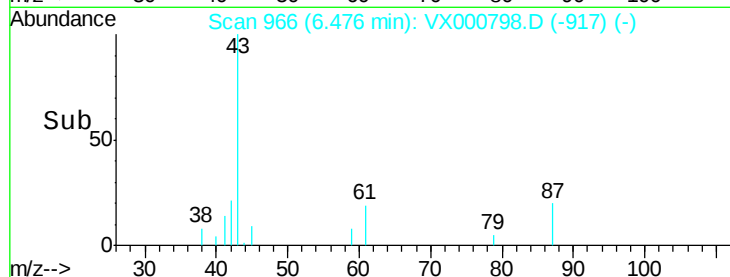
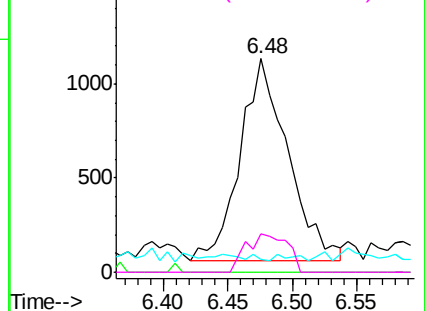


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 26.42 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

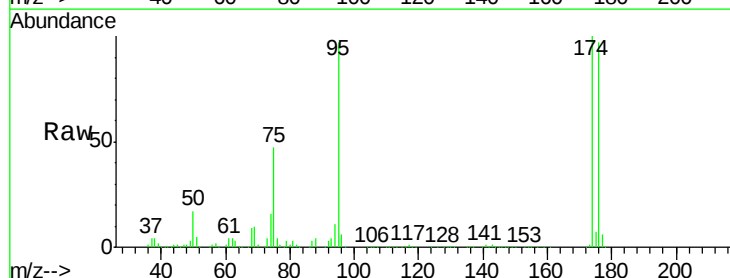
Lab File: VX000798.D

Acq: 12 Apr 2018 13:33

Tgt Ion: 75 Resp: 89006

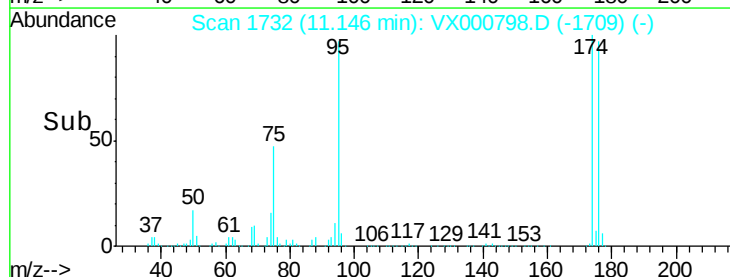
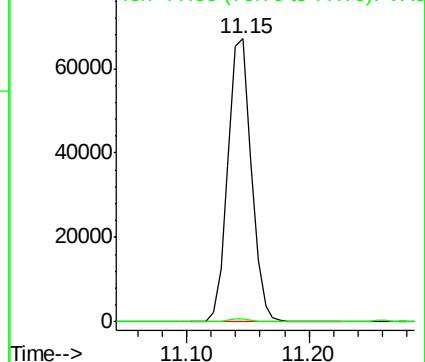
Ion Ratio Lower Upper

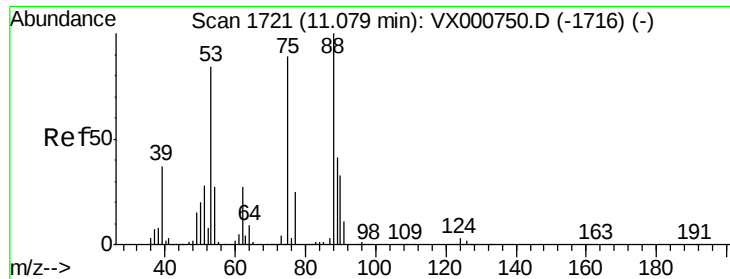
75	100		
77	1.1	20.5	61.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

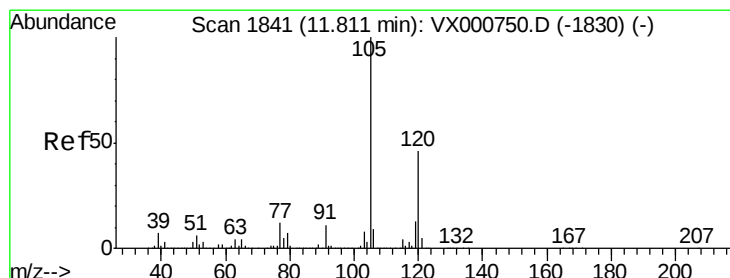
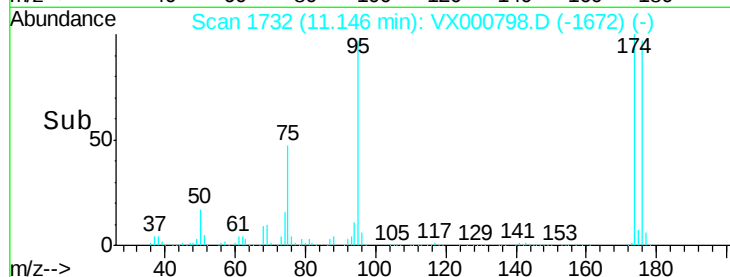
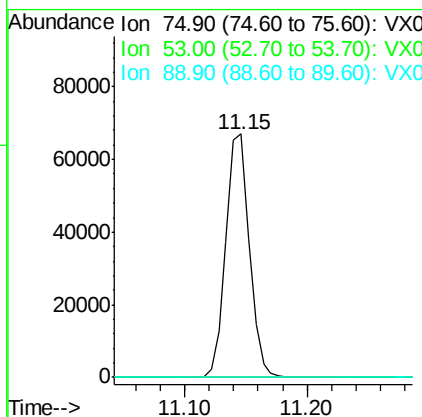
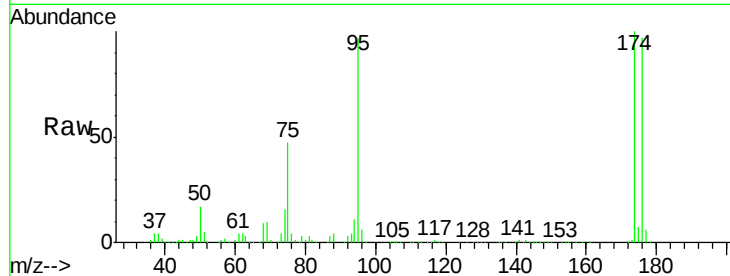




#81
trans-1,4-Dichloro-2-butene
Concen: 72.69 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.07 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

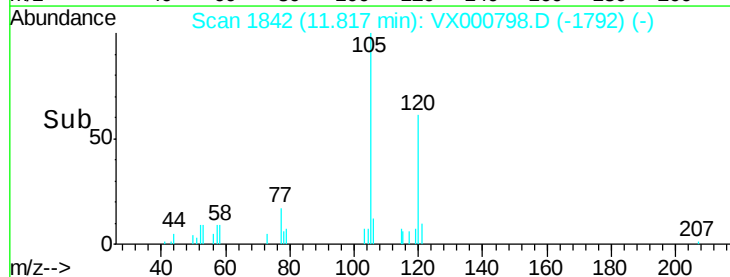
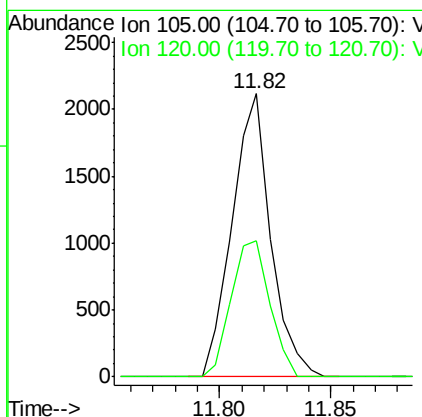
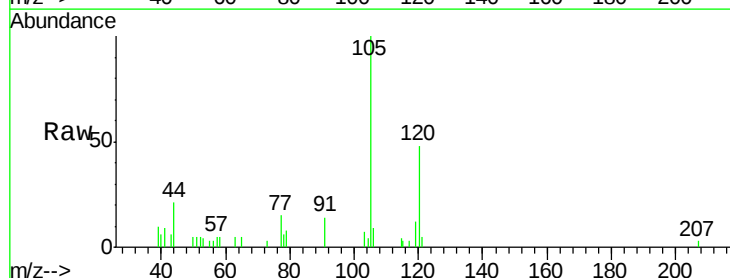
Instrument :
MSVOA_X
ClientSampleId :
WC-PH3-ARE-01

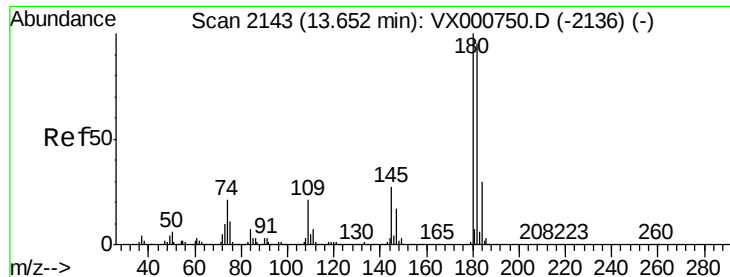
Tgt Ion: 75 Resp: 89006
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.0#
89 0.1 40.9 61.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.23 ug/l
RT: 11.82 min Scan# 1842
Delta R.T. 0.01 min
Lab File: VX000798.D
Acq: 12 Apr 2018 13:33

Tgt Ion: 105 Resp: 2546
Ion Ratio Lower Upper
105 100
120 48.2 23.1 69.3

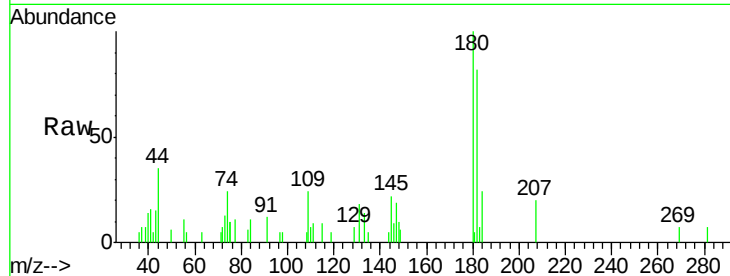




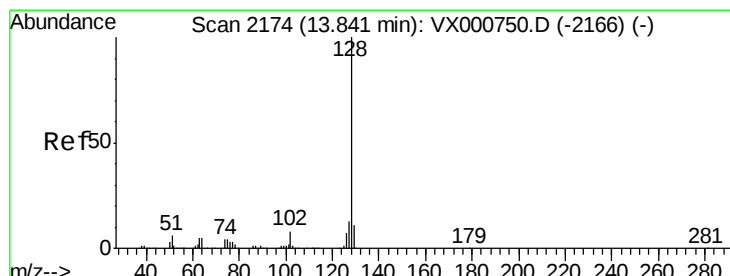
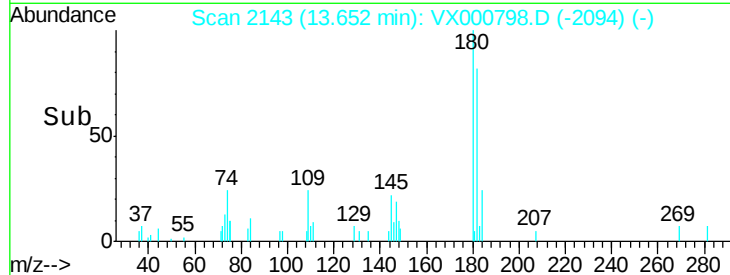
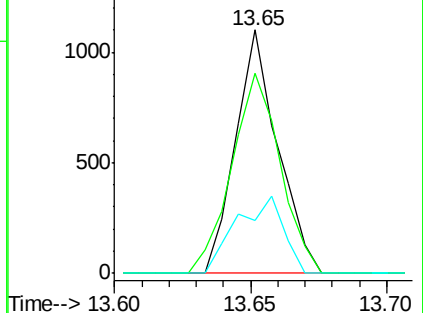
#93
 1,2,4-Trichlorobenzene
 Concen: 0.21 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VX000798.D
 Acq: 12 Apr 2018 13:33

Instrument :
 MSVOA_X
 ClientSampled :
 WC-PH3-ARE-01

Tgt Ion:180 Resp: 1180
 Ion Ratio Lower Upper
 180 100
 182 94.5 47.5 142.5
 145 35.2 13.8 41.4

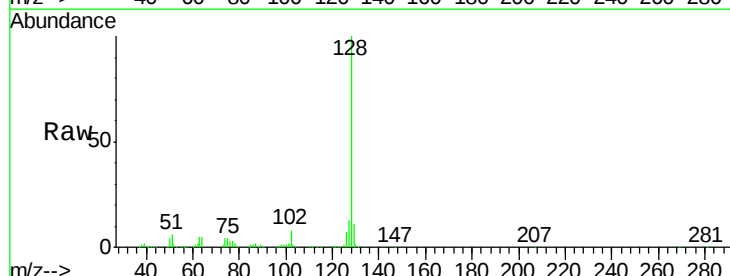


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 10.72 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VX000798.D
 Acq: 12 Apr 2018 13:33

Tgt Ion:128 Resp: 152352
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.4 15.6
 129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

