

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070518\
 Data File : VX003199.D
 Acq On : 06 Jul 2018 04:07
 Operator : JC/MD
 Sample : J3844-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022RW358-180702

Quant Time: Jul 06 04:38:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	271444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	378026	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	199077	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	172571	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	
35) Dibromofluoromethane	5.51	113	144808	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	8.72	98	519705	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
62) 4-Bromofluorobenzene	11.14	95	187323	44.43	ug/l	0.00
Spiked Amount			Recovery	=	88.86%	

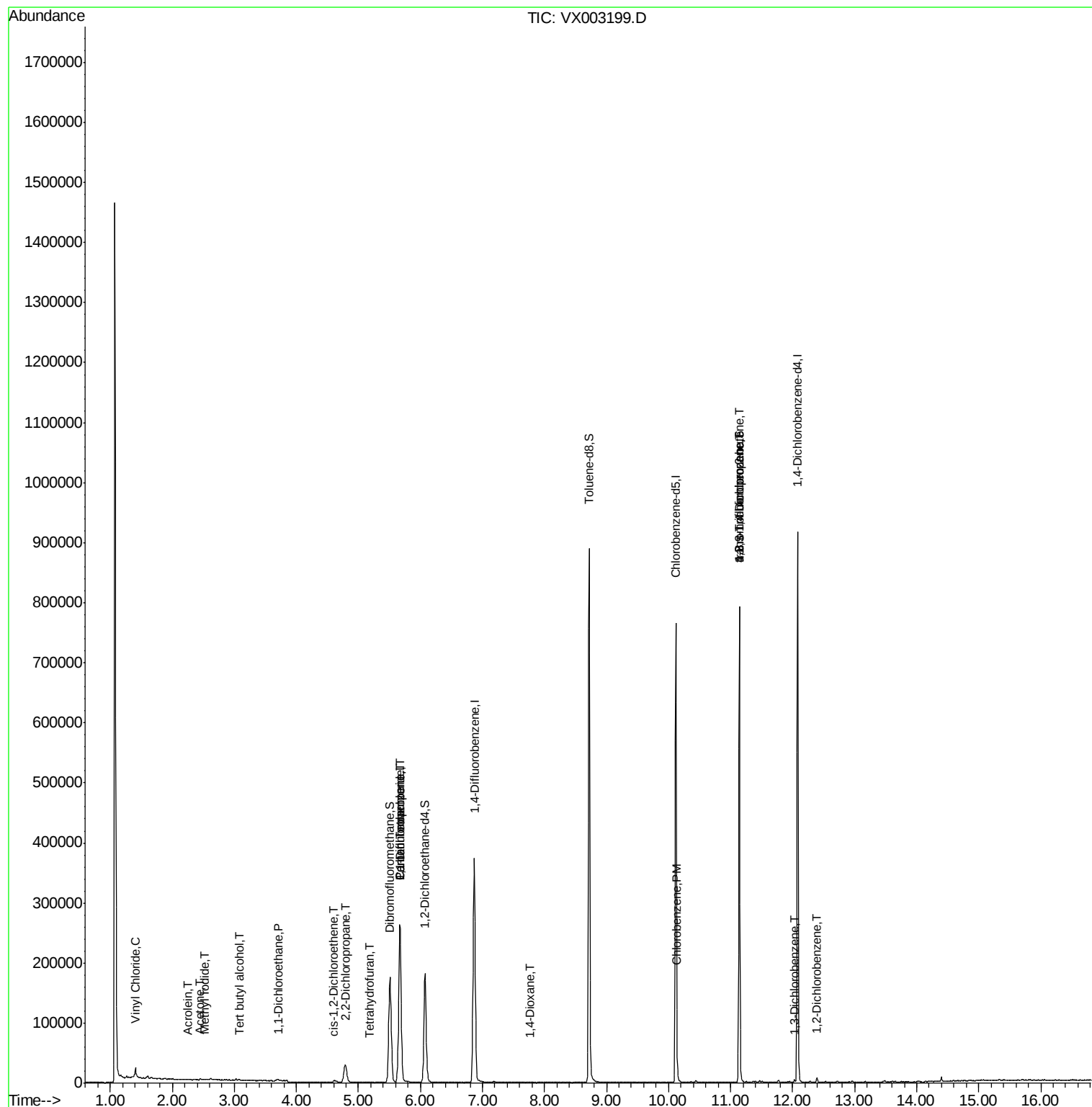
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	142	Below Cal	#	43
3) Chloromethane	1.33	50	565	Below Cal	#	73
4) Vinyl Chloride	1.40	62	8555	2.79	ug/l	67
5) Bromomethane	1.61	94	109	Below Cal	#	43
6) Chloroethane	1.73	64	246	Below Cal	#	52
10) Methyl Iodide	2.52	142	1573	6.68	ug/l	96
11) Tert butyl alcohol	3.08	59	1661	2.22	ug/l	96
13) Acrolein	2.25	56	201	4.71	ug/l	# 62
16) Acetone	2.45	43	1234	0.79	ug/l	96
24) 1,1-Dichloroethane	3.70	63	2573	0.47	ug/l	# 86
26) 2,2-Dichloropropane	4.78	77	2650	0.59	ug/l	# 53
27) cis-1,2-Dichloroethene	4.60	96	871	0.27	ug/l	# 10
29) Tetrahydrofuran	5.18	42	544	0.37	ug/l	# 36
36) 1,1-Dichloropropene	5.67	75	17710	4.27	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	24026	5.28	ug/l	# 16
49) 1,4-Dioxane	7.77	88	87	1.16	ug/l	# 1
65) Chlorobenzene	10.14	112	4768	0.54	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	92147	25.55	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92147	72.52	ug/l	# 7
87) 1,3-Dichlorobenzene	12.03	146	1416	0.20	ug/l	96
91) 1,2-Dichlorobenzene	12.40	146	1574	0.22	ug/l	95

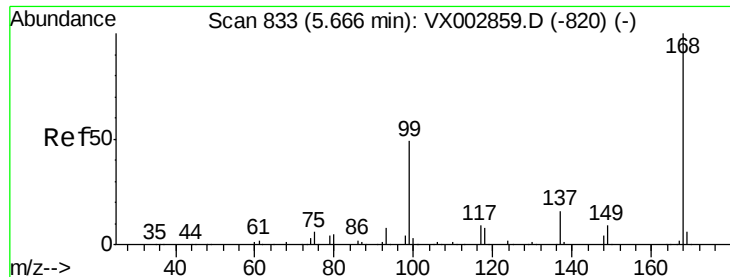
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070518\
Data File : VX003199.D
Acq On : 06 Jul 2018 04:07
Operator : JC/MD
Sample : J3844-07
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WP022RW358-180702

Quant Time: Jul 06 04:38:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

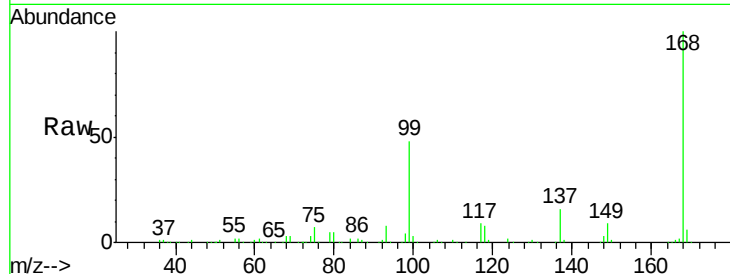
WP022RW358-180702

Tot Ion:168 Resp: 271444

Ion Ratio Lower Upper

168 100

99 48.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

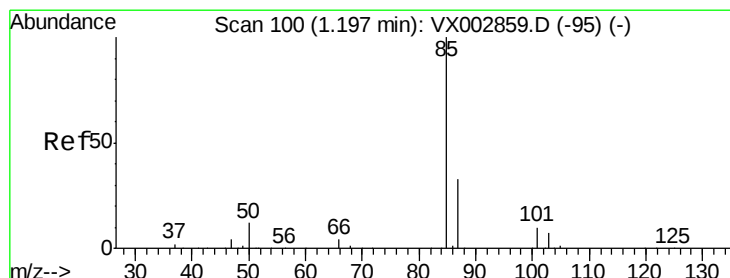
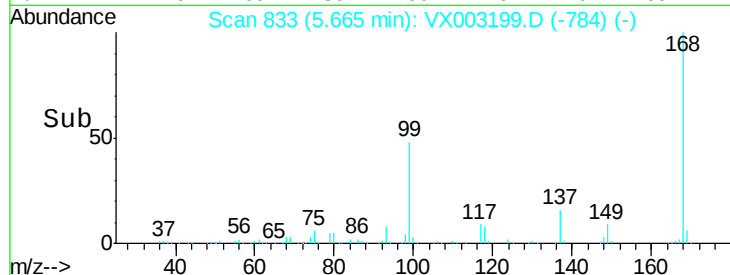
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003199.D

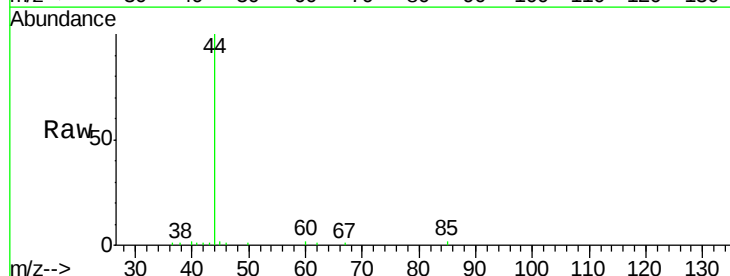
Acq: 06 Jul 2018 04:07

Tgt Ion: 85 Resp: 142

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

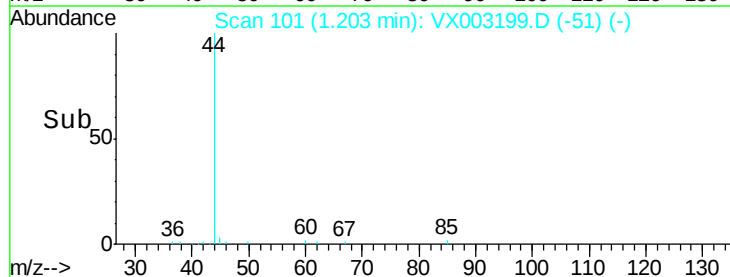
150

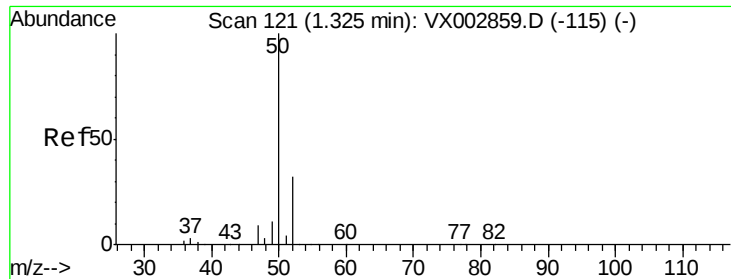
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

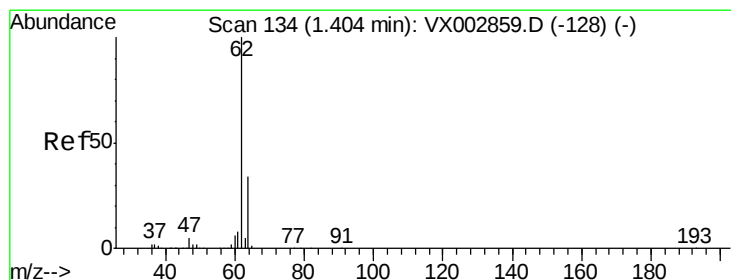
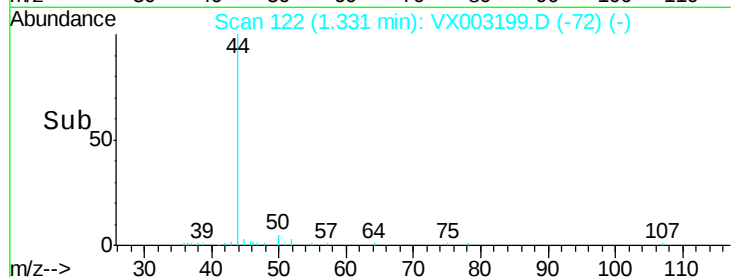
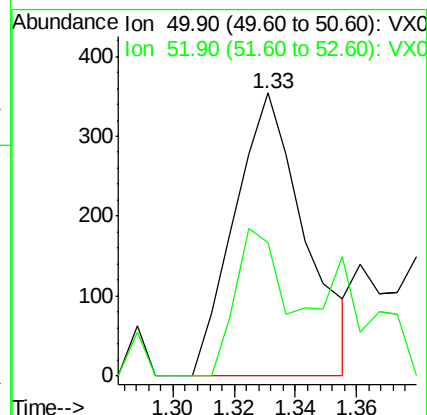
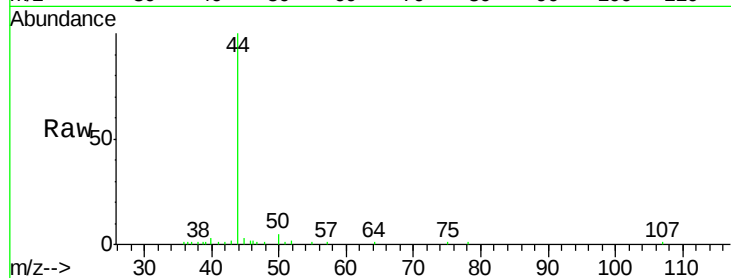
WP022RW358-180702

Tot Ion: 50 Resp: 565

Ion Ratio Lower Upper

50 100

52 47.2 25.7 38.5#



#4

Vinyl Chloride

Concen: 2.79 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003199.D

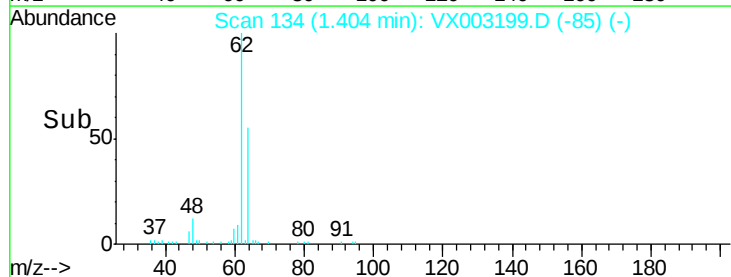
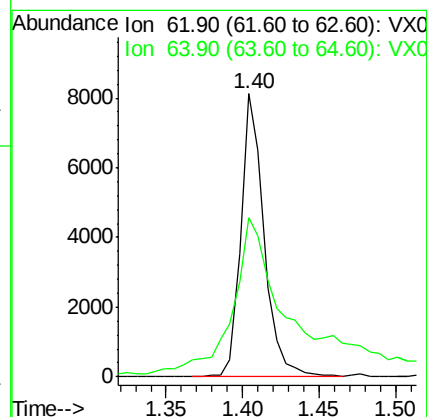
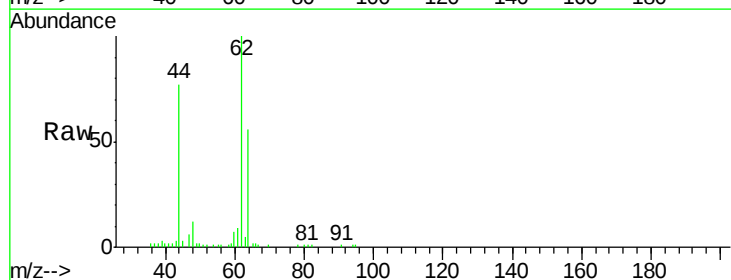
Acq: 06 Jul 2018 04:07

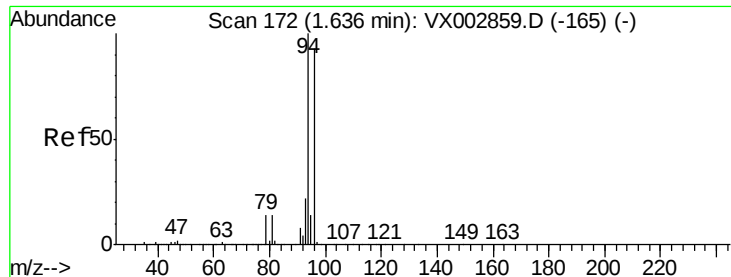
Tgt Ion: 62 Resp: 8555

Ion Ratio Lower Upper

62 100

64 50.2 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 167

Delta R.T. -0.03 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

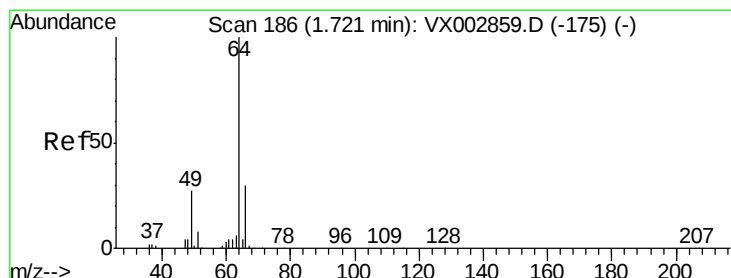
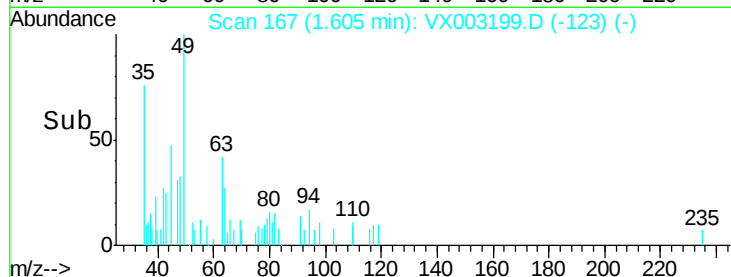
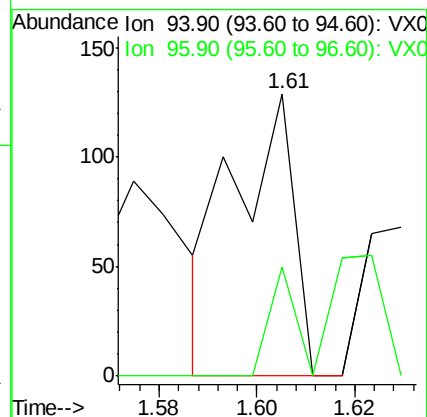
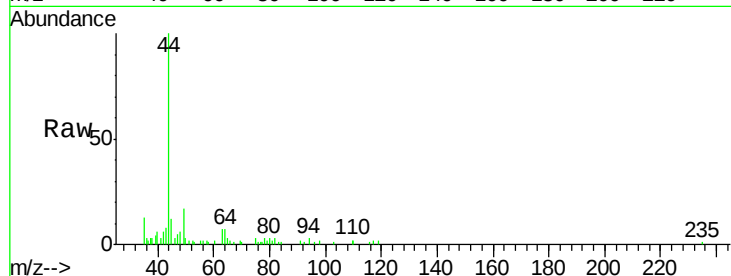
WP022RW358-180702

Tot Ion: 94 Resp: 109

Ion Ratio Lower Upper

94 100

96 38.8 74.9 112.3#



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003199.D

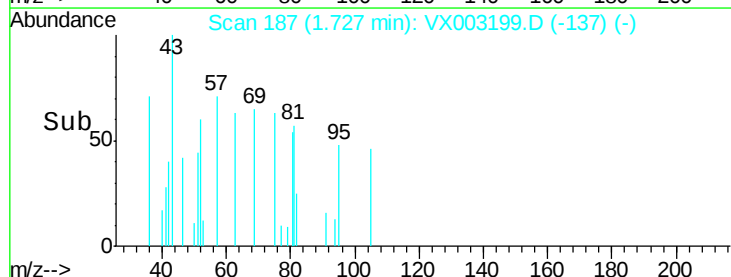
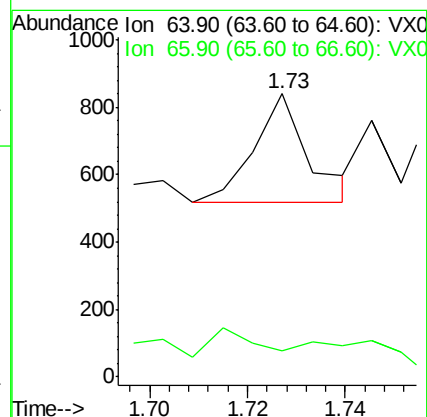
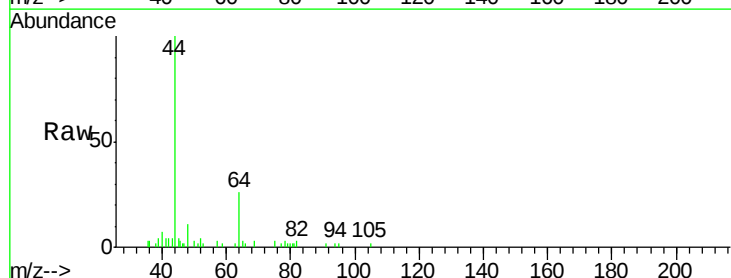
Acq: 06 Jul 2018 04:07

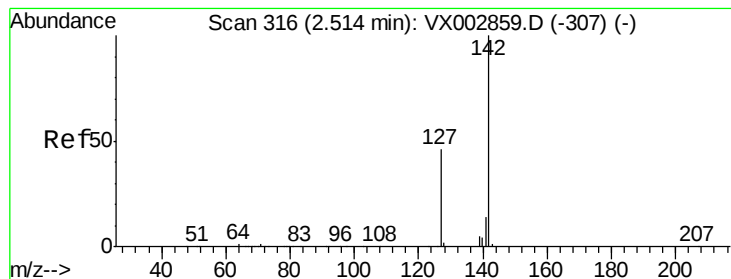
Tgt Ion: 64 Resp: 246

Ion Ratio Lower Upper

64 100

66 5.0 25.5 38.3#





#10

Methyl Iodide

Concen: 6.68 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

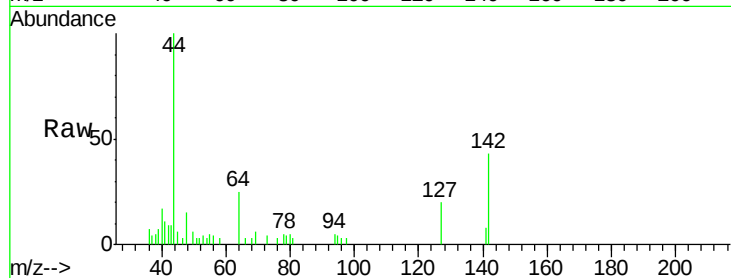
Tot Ion:142 Resp: 1573

Ion Ratio Lower Upper

142 100

127 48.4 36.6 55.0

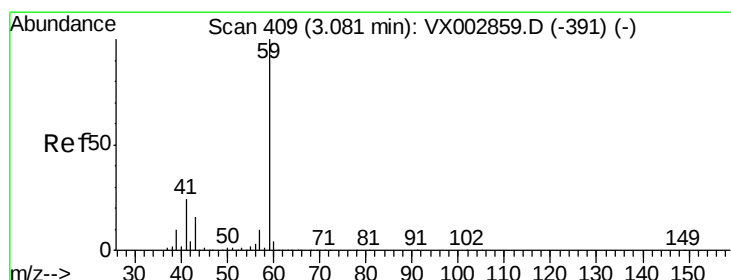
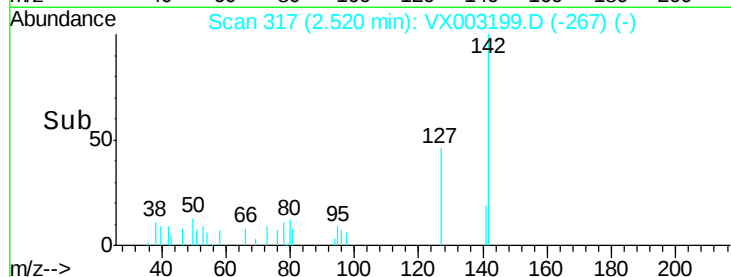
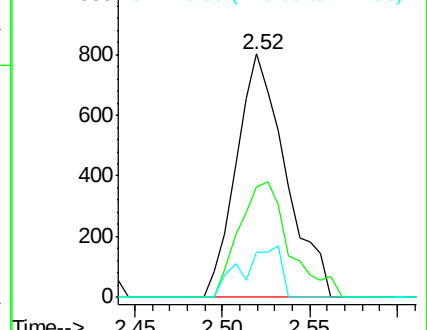
141 16.4 11.3 16.9



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: 2.22 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.00 min

Lab File: VX003199.D

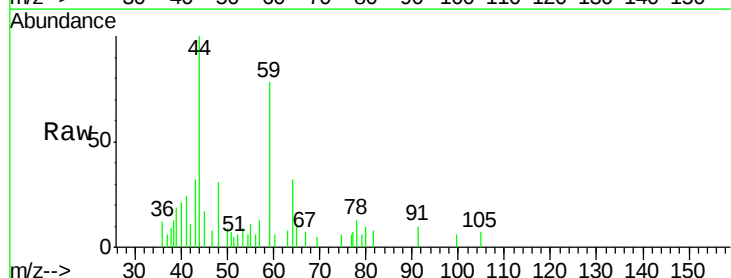
Acq: 06 Jul 2018 04:07

Tgt Ion: 59 Resp: 1661

Ion Ratio Lower Upper

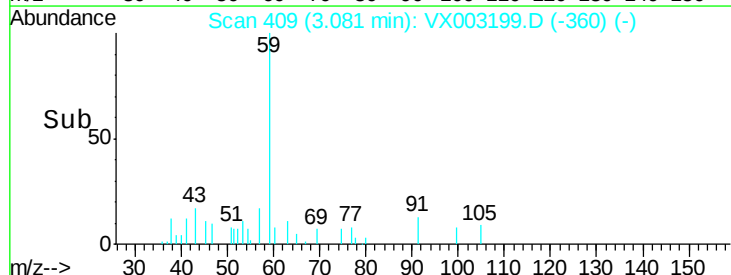
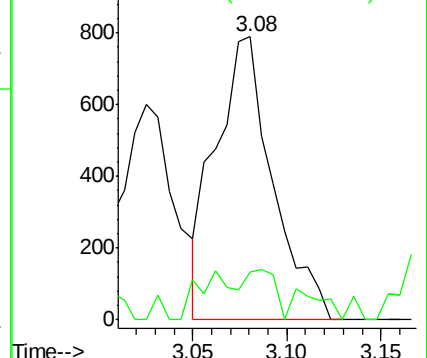
59 100

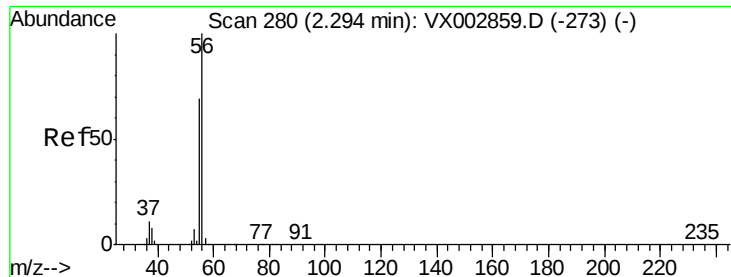
57 8.7 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.71 ug/l

RT: 2.25 min Scan# 273

Delta R.T. -0.04 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

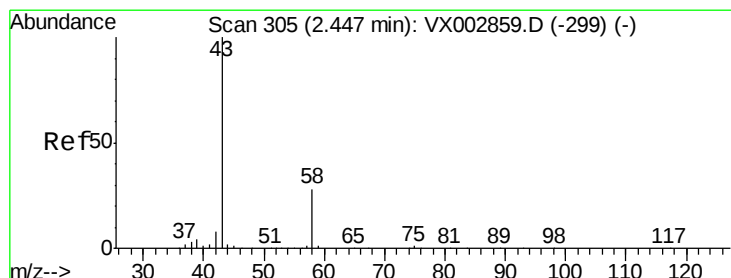
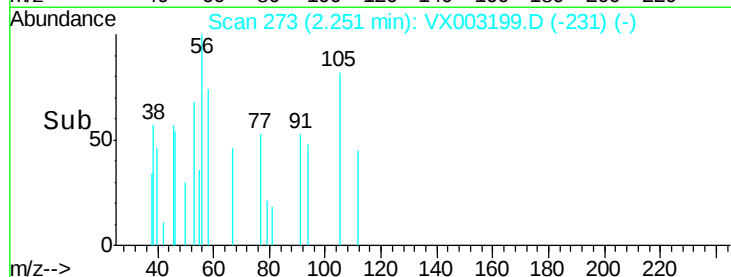
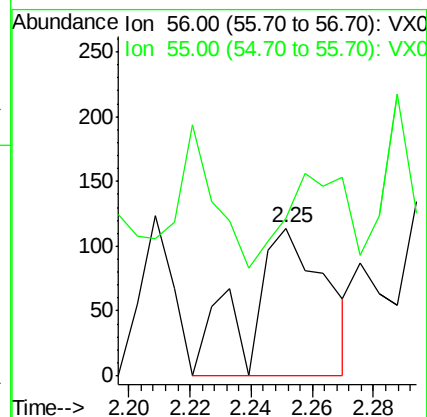
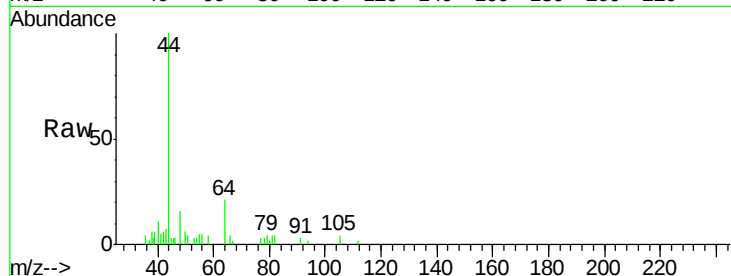
WP022RW358-180702

Tot Ion: 56 Resp: 201

Ion Ratio Lower Upper

56 100

55 102.5 57.0 85.4#



#16

Acetone

Concen: 0.79 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003199.D

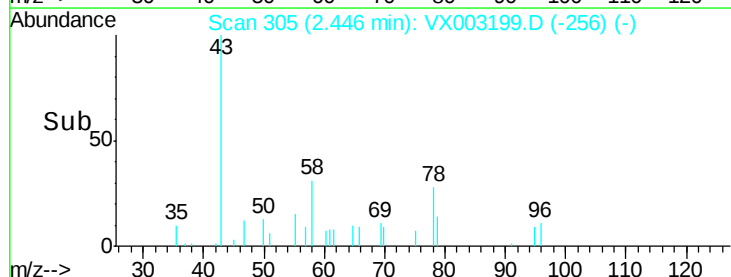
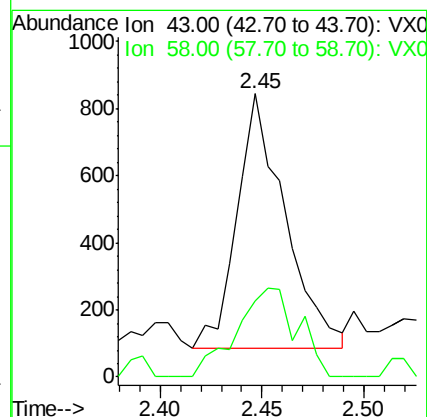
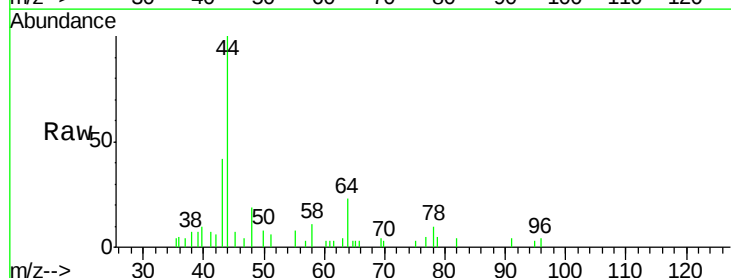
Acq: 06 Jul 2018 04:07

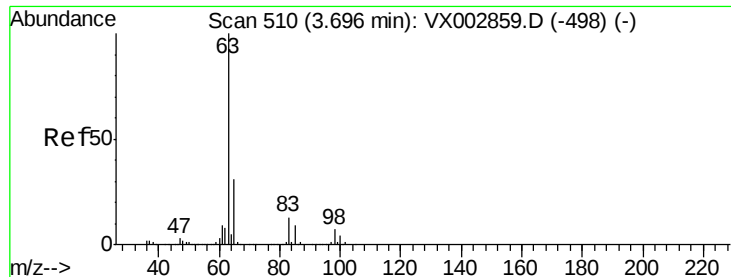
Tgt Ion: 43 Resp: 1234

Ion Ratio Lower Upper

43 100

58 29.9 22.1 33.1





#24

1,1-Dichloroethane

Concen: 0.47 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

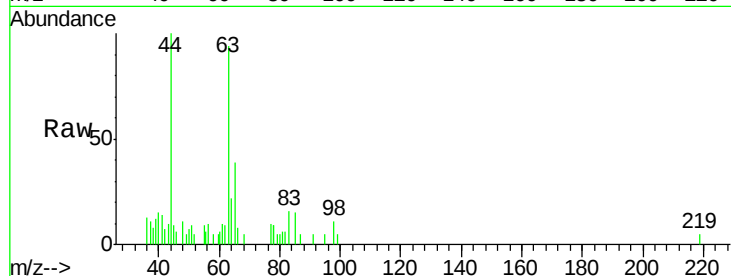
Tot Ion: 63 Resp: 2573

Ion Ratio Lower Upper

63 100

98 12.1 3.4 10.2#

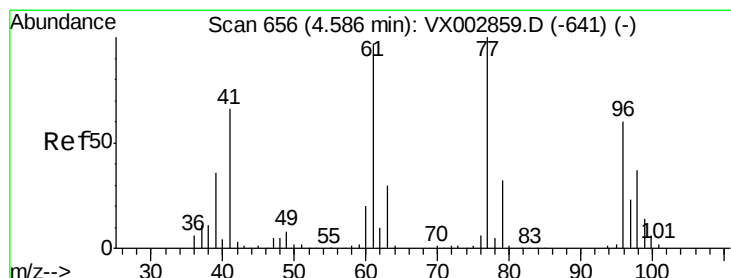
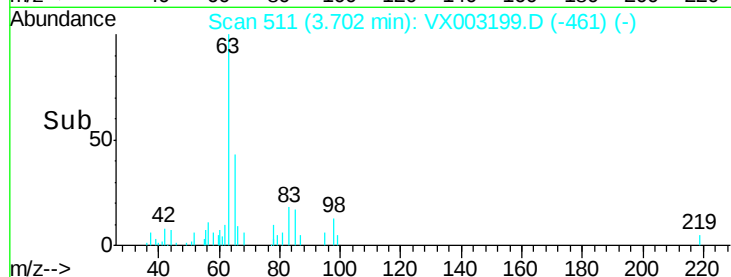
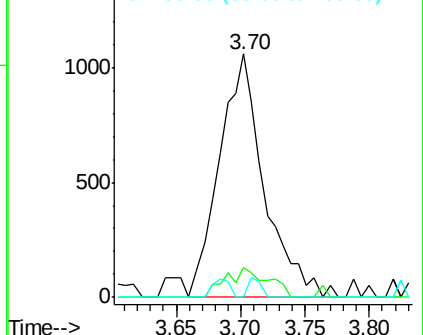
100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#26

2,2-Dichloropropane

Concen: 0.59 ug/l

RT: 4.78 min Scan# 688

Delta R.T. 0.19 min

Lab File: VX003199.D

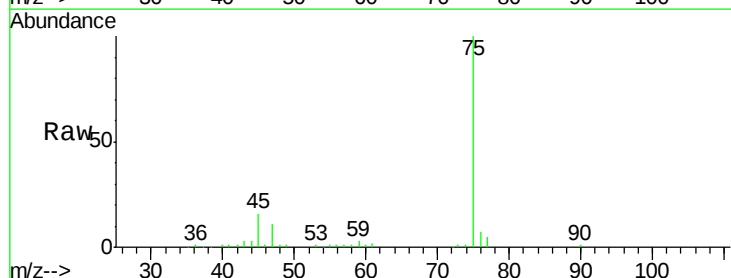
Acq: 06 Jul 2018 04:07

Tgt Ion: 77 Resp: 2650

Ion Ratio Lower Upper

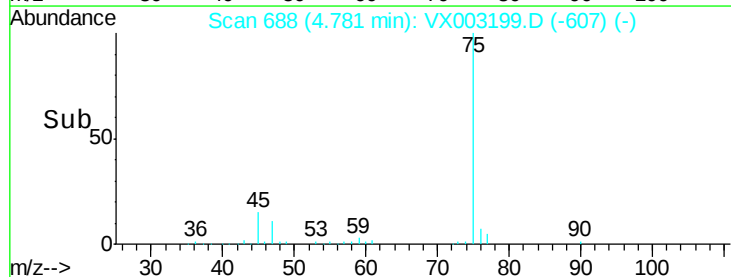
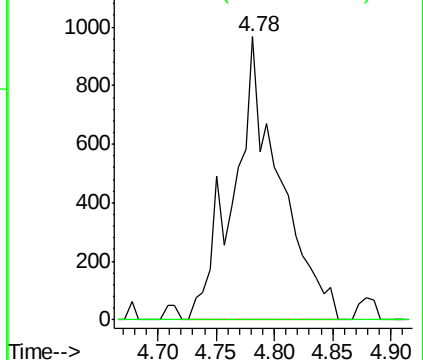
77 100

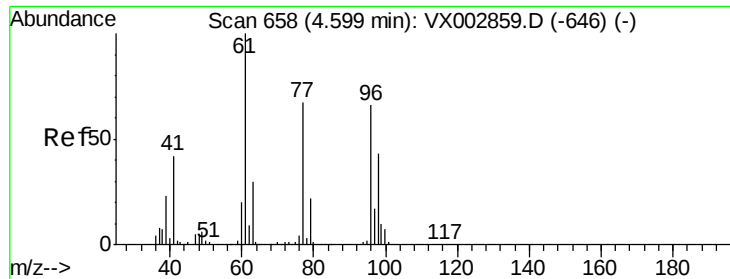
97 0.0 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.27 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

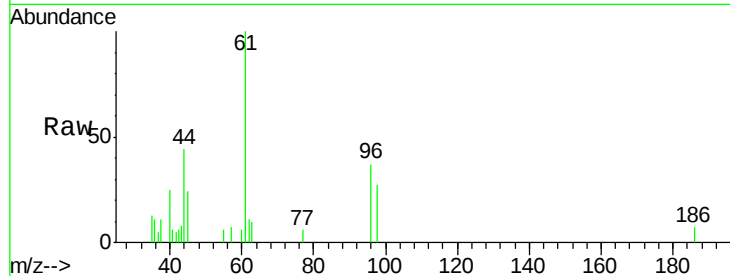
Tot Ion: 96 Resp: 871

Ion Ratio Lower Upper

96 100

61 0.0 0.0 330.2

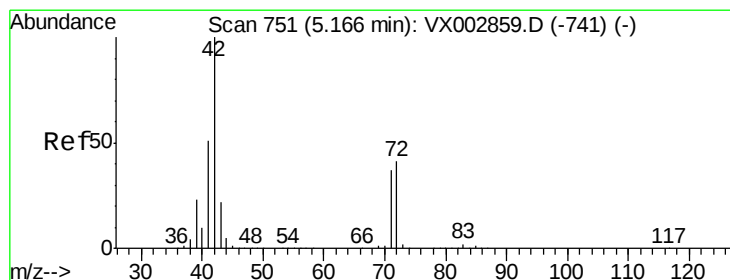
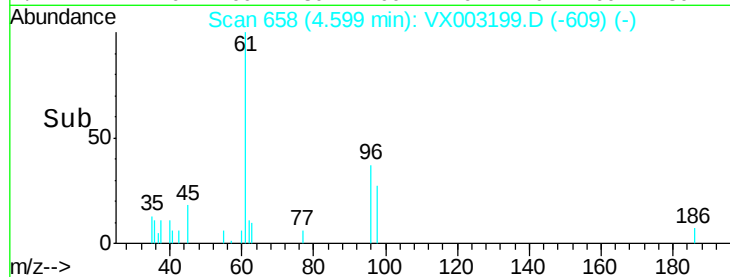
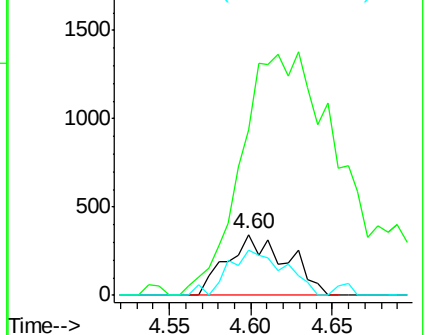
98 71.3 0.0 130.2



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



#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

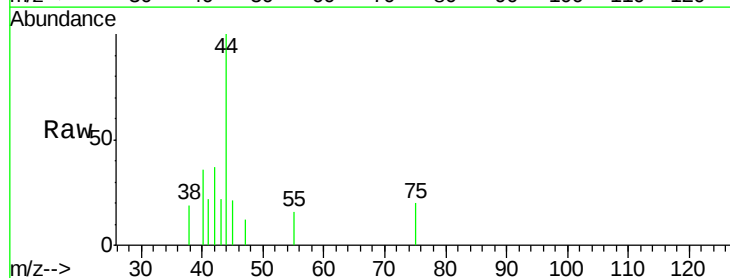
Tgt Ion: 42 Resp: 544

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

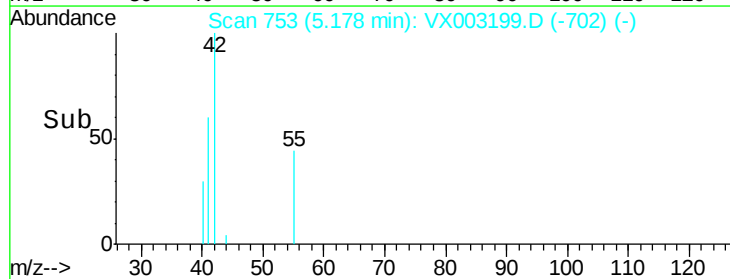
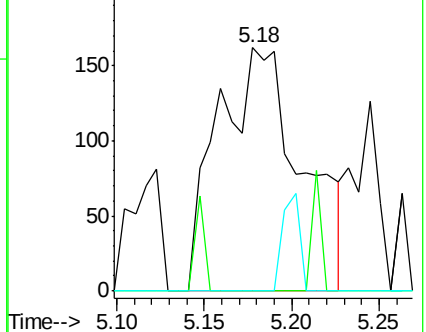
71 0.0 30.1 45.1#

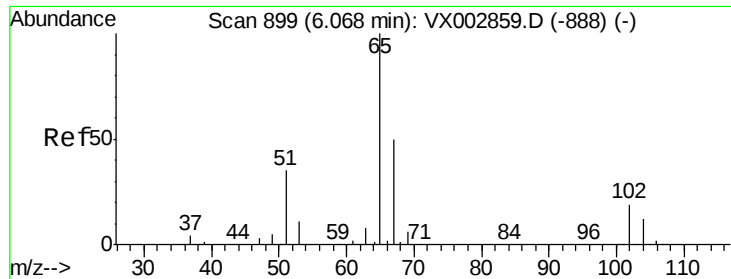


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

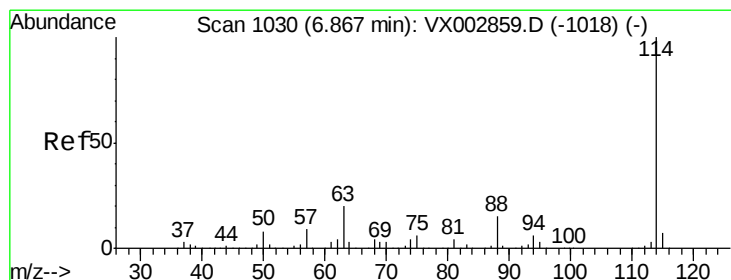
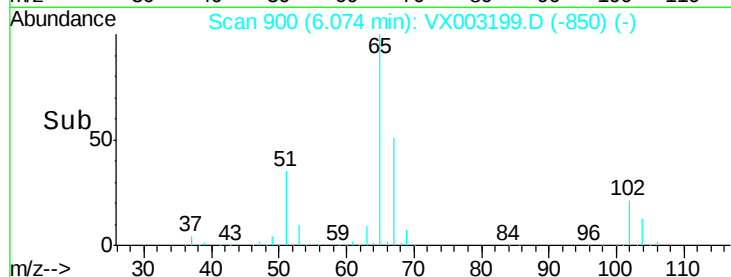
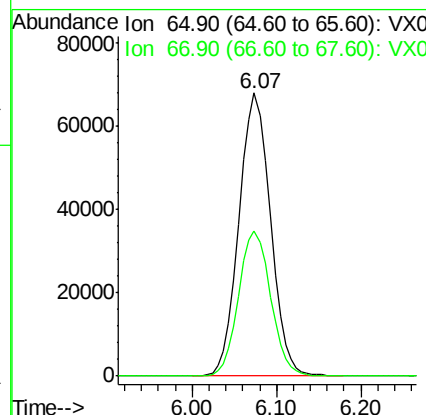
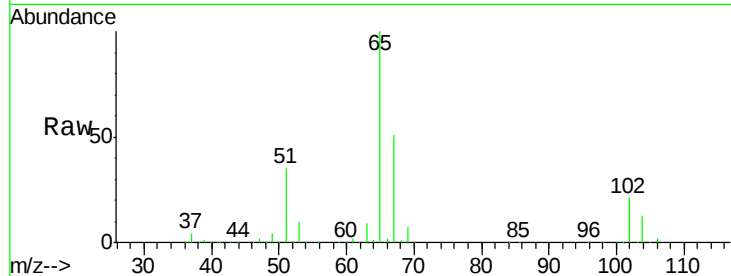




#33
 1,2-Dichloroethane-d4
 Concen: 46.00 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003199.D
 Acq: 06 Jul 2018 04:07

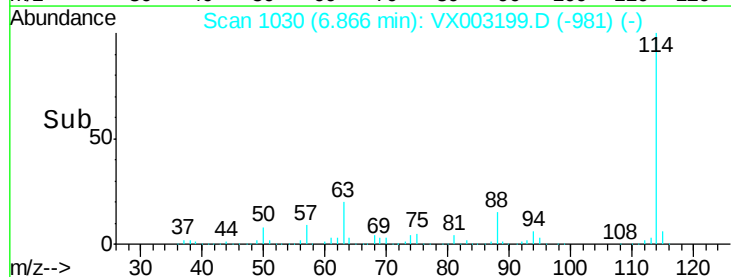
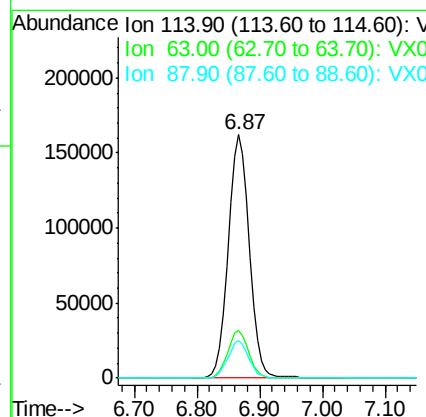
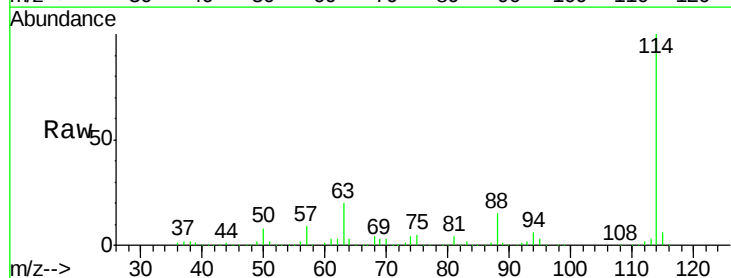
Instrument :
 MSVOA_X
 ClientSampleId :
 WP022RW358-180702

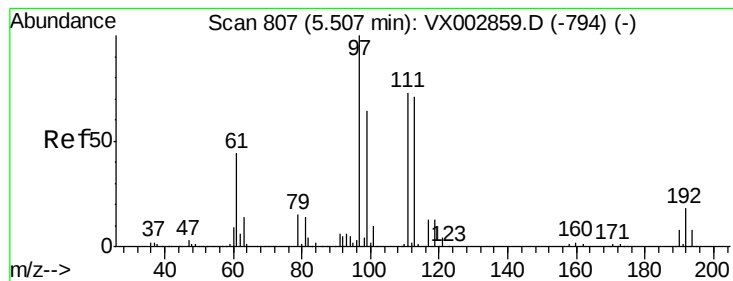
Tot Ion: 65 Resp: 172571
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003199.D
 Acq: 06 Jul 2018 04:07

Tgt Ion: 114 Resp: 378026
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.37 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

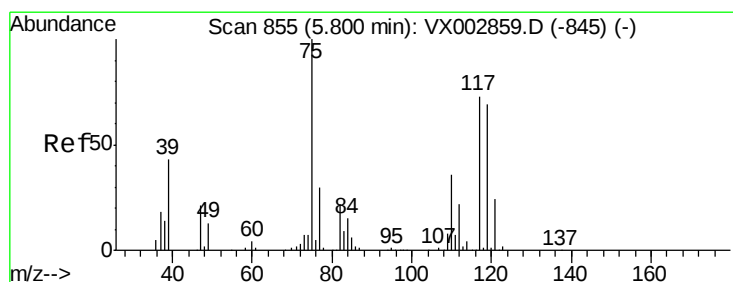
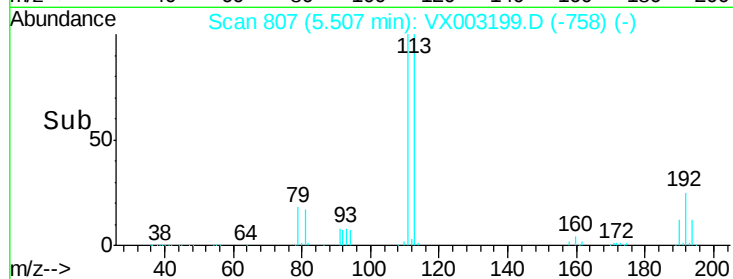
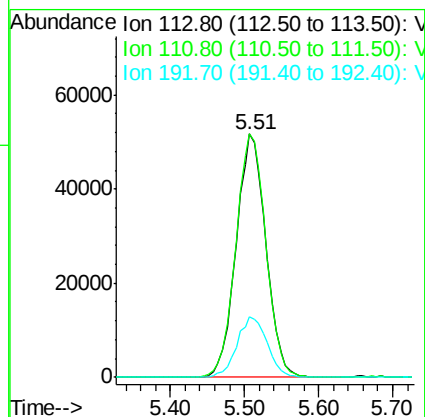
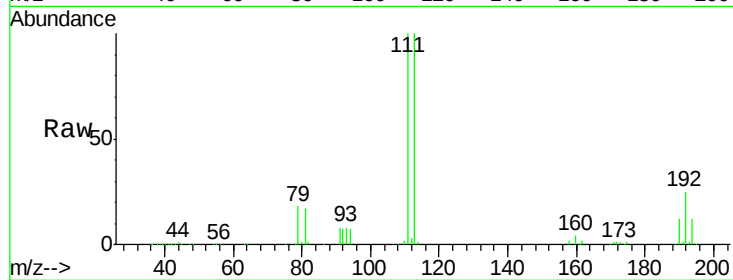
Tot Ion:113 Resp: 144808

Ion Ratio Lower Upper

113 100

111 100.9 81.4 122.0

192 25.4 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.27 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

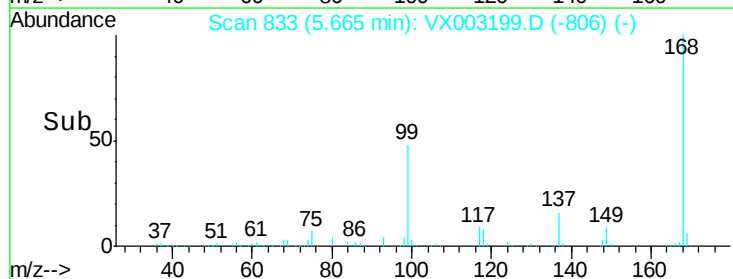
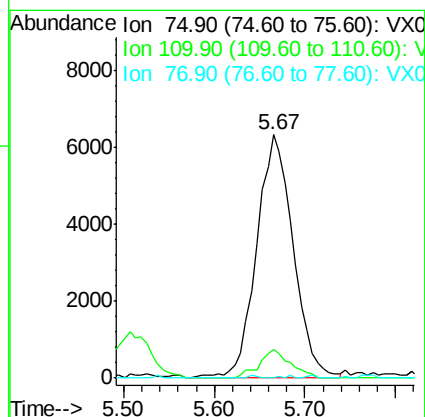
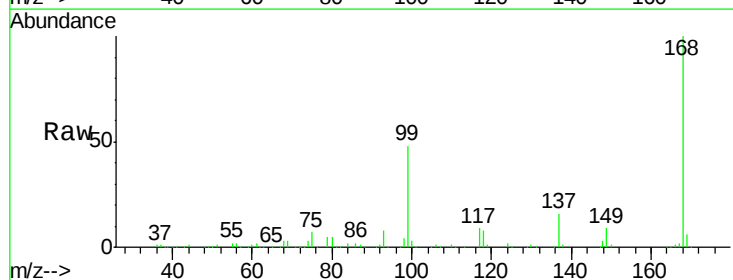
Tgt Ion: 75 Resp: 17710

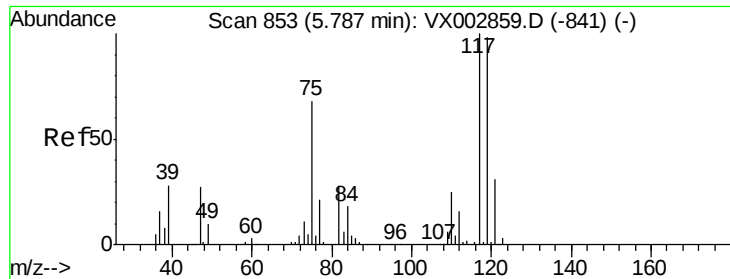
Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.4#

77 0.1 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.28 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

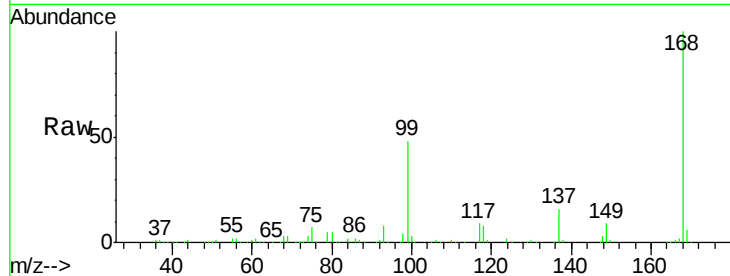
Tot Ion:117 Resp: 24026

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

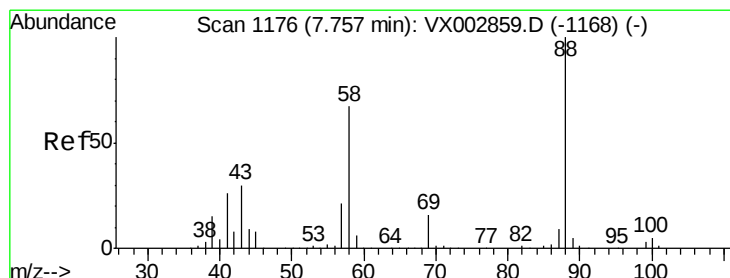
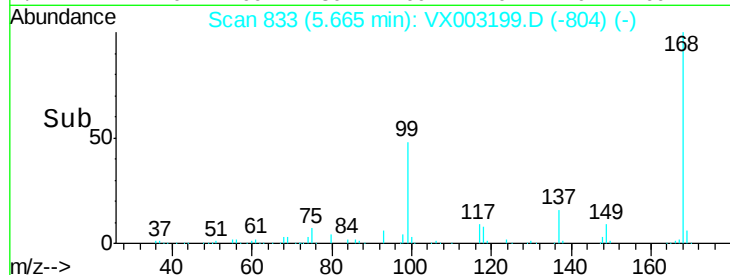
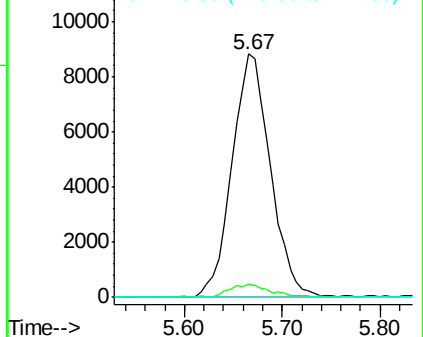
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.16 ug/l

RT: 7.77 min Scan# 1179

Delta R.T. 0.02 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

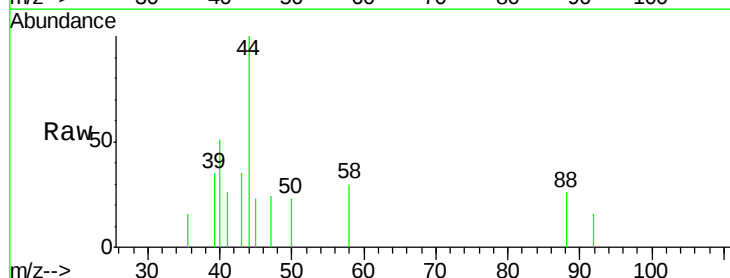
Tgt Ion: 88 Resp: 87

Ion Ratio Lower Upper

88 100

43 246.0 29.8 44.6#

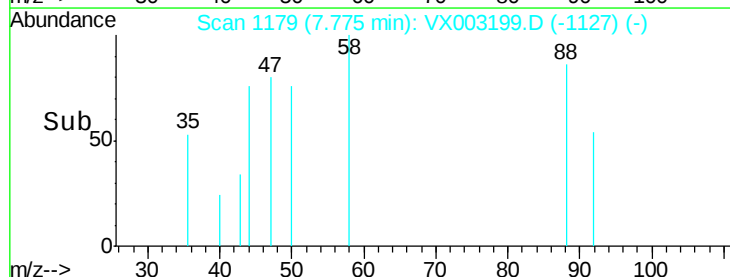
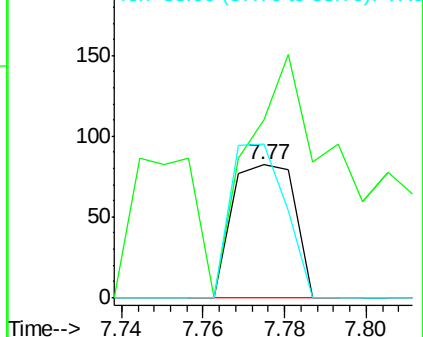
58 102.3 57.1 85.7#

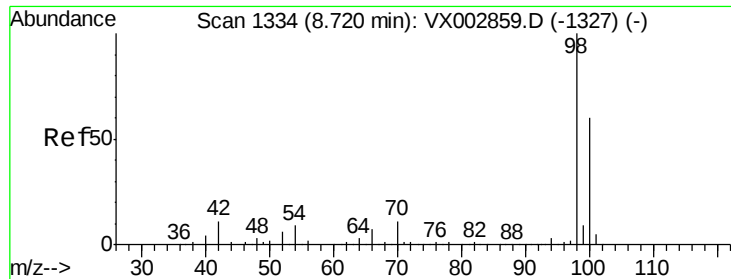


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

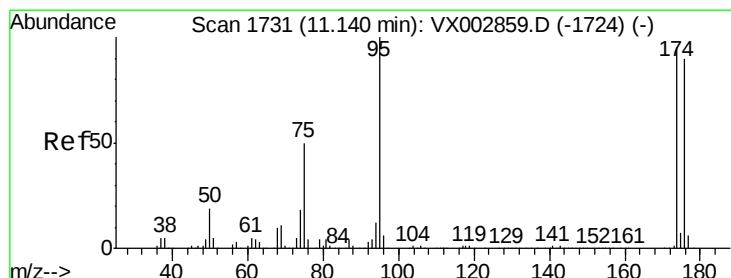
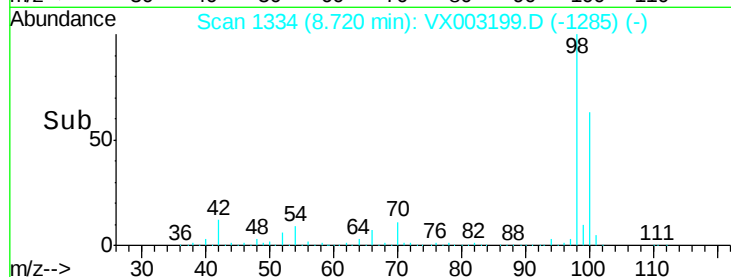
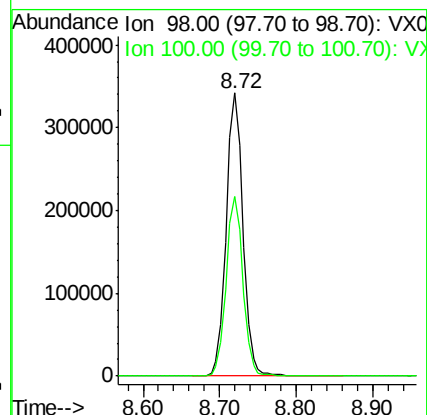
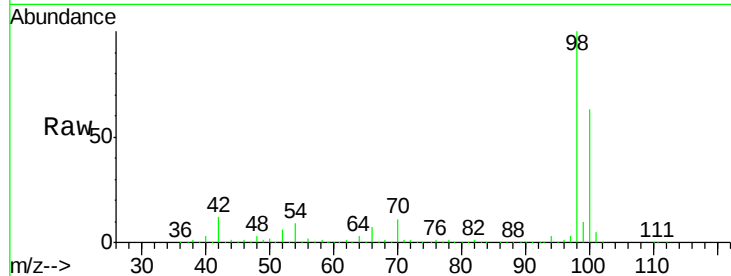




#50
Toluene-d8
Concen: 47.54 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003199.D
Acq: 06 Jul 2018 04:07

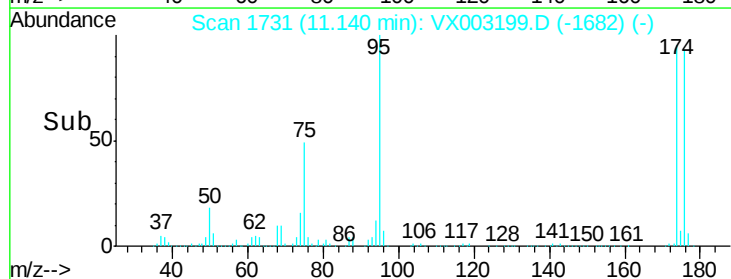
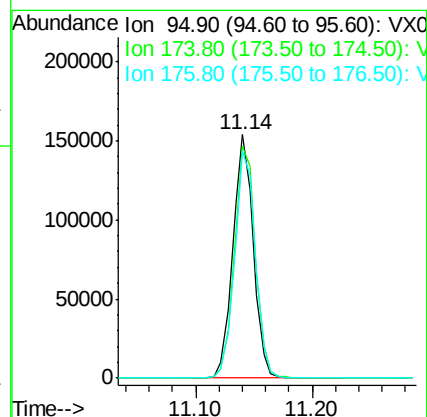
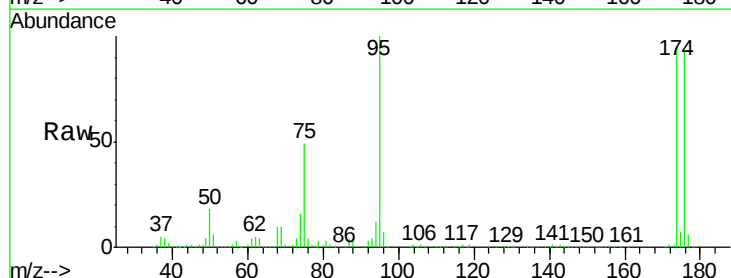
Instrument :
MSVOA_X
ClientSampleId :
WP022RW358-180702

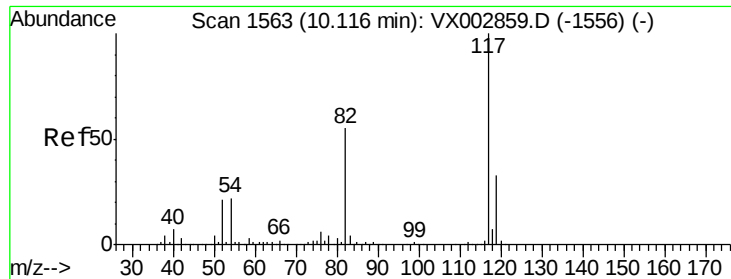
Tot Ion: 98 Resp: 519705
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.43 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003199.D
Acq: 06 Jul 2018 04:07

Tgt Ion: 95 Resp: 187323
Ion Ratio Lower Upper
95 100
174 98.6 0.0 187.4
176 95.1 0.0 181.0

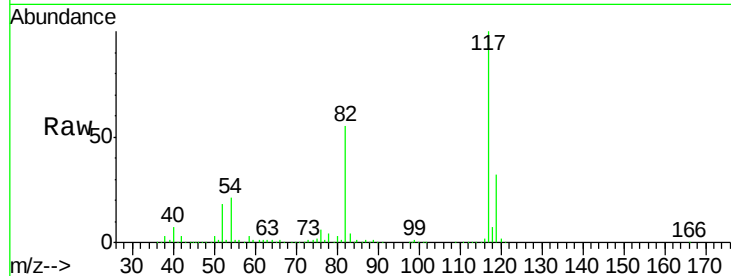




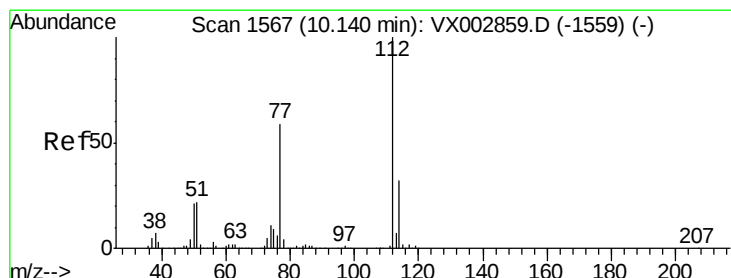
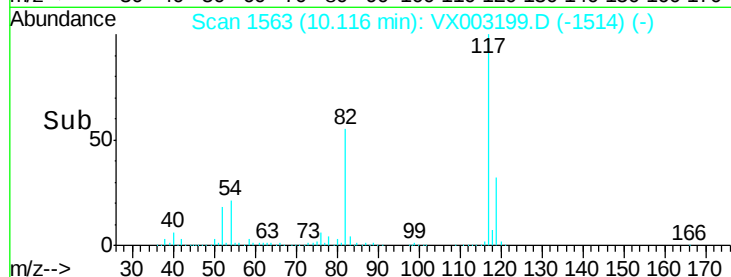
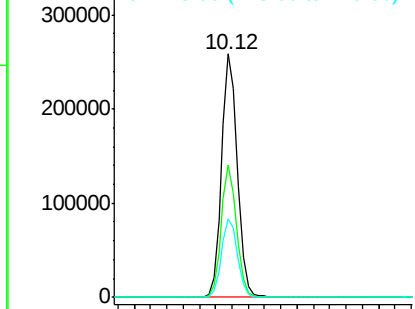
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003199.D
Acq: 06 Jul 2018 04:07

Instrument :
MSVOA_X
ClientSampleId :
WP022RW358-180702

Tot Ion:117 Resp: 349178
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.4
119 32.2 25.8 38.6

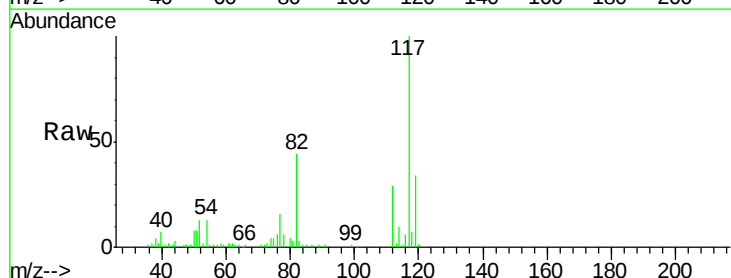


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

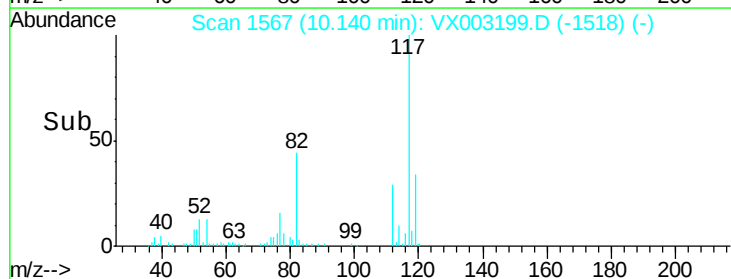
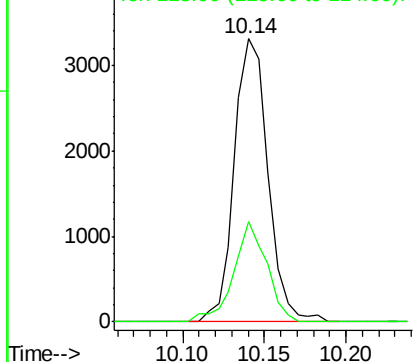


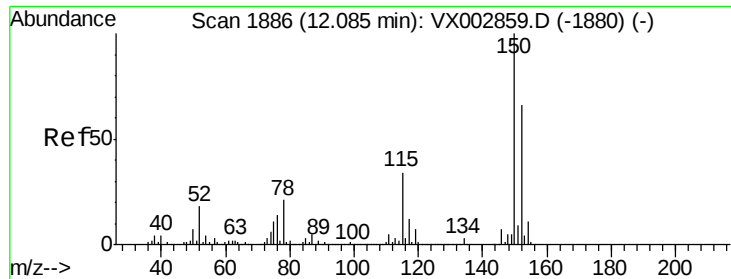
#65
Chlorobenzene
Concen: 0.54 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX003199.D
Acq: 06 Jul 2018 04:07

Tgt Ion:112 Resp: 4768
Ion Ratio Lower Upper
112 100
114 35.6 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

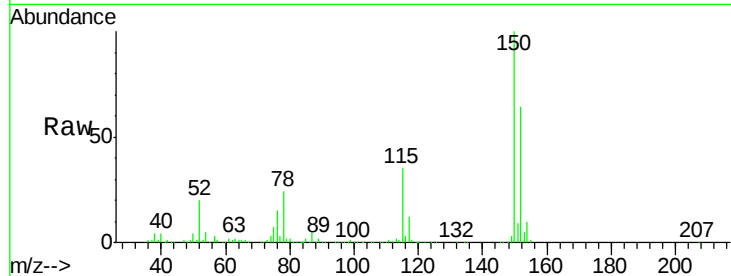
Tot Ion:152 Resp: 199077

Ion Ratio Lower Upper

152 100

115 53.1 40.1 120.2

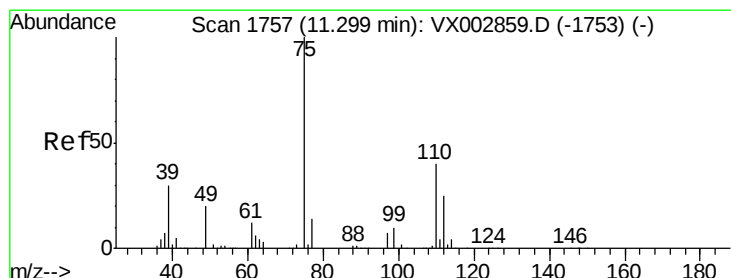
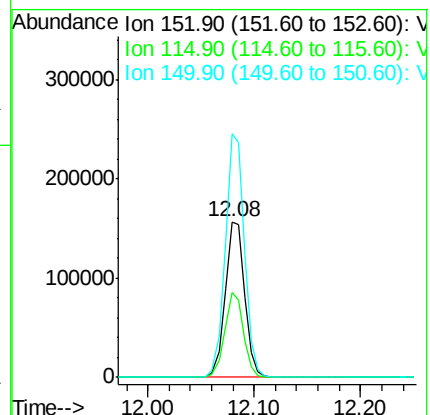
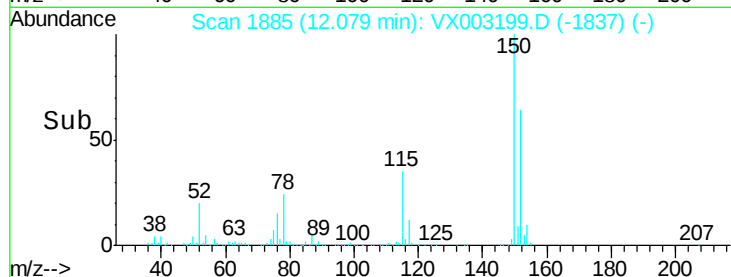
150 153.9 0.0 347.2



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: 25.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003199.D

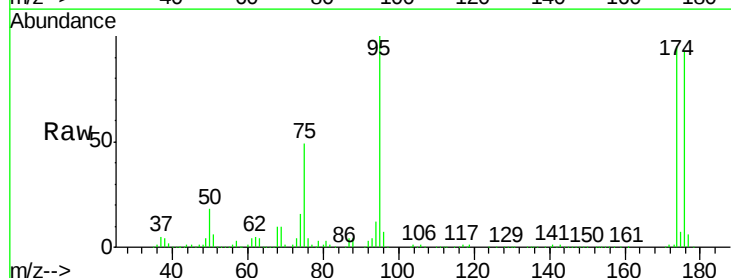
Acq: 06 Jul 2018 04:07

Tgt Ion: 75 Resp: 92147

Ion Ratio Lower Upper

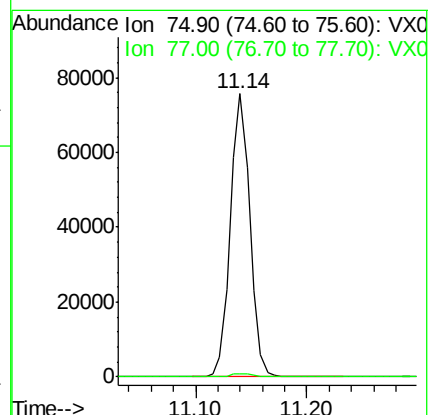
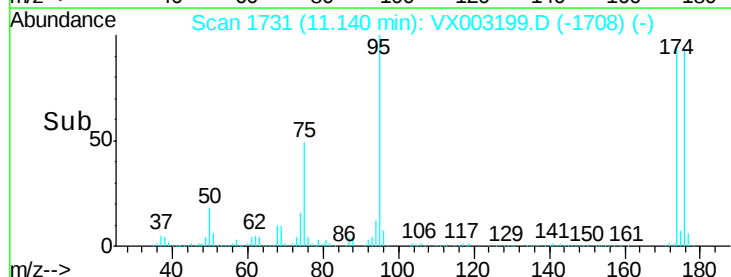
75 100

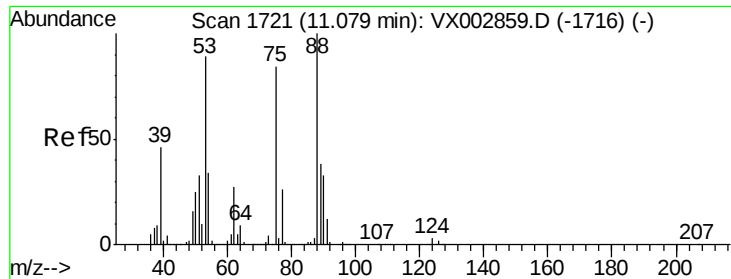
77 1.3 22.8 68.3#



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: 72.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

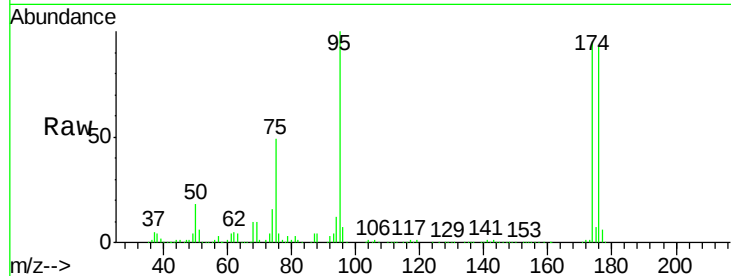
Tot Ion: 75 Resp: 92147

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

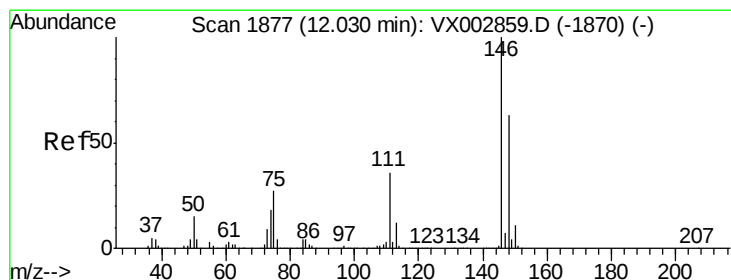
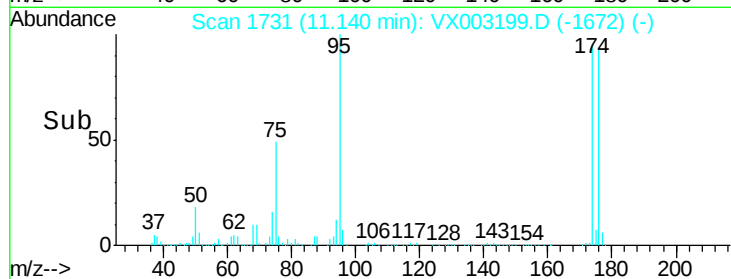
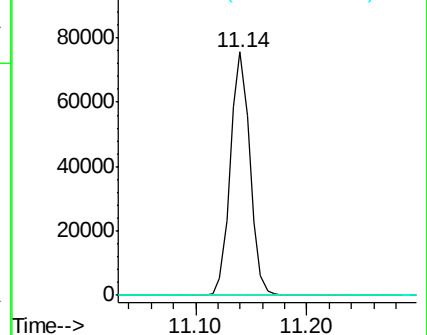
89 0.1 38.2 57.2#



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



#87

1,3-Dichlorobenzene

Concen: 0.20 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

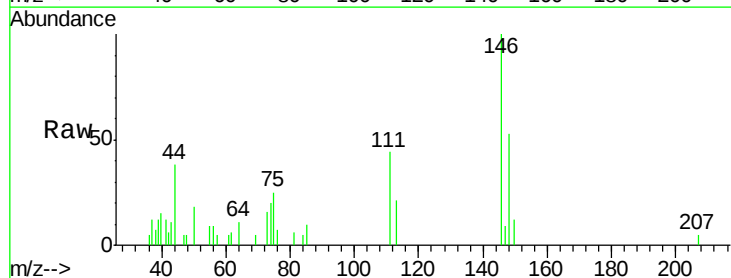
Tgt Ion: 146 Resp: 1416

Ion Ratio Lower Upper

146 100

111 40.4 18.9 56.7

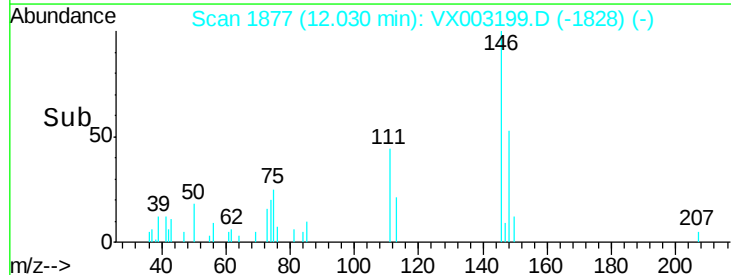
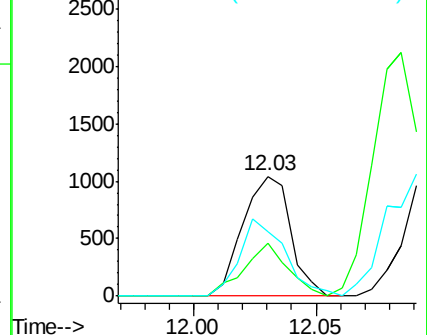
148 60.9 32.1 96.3

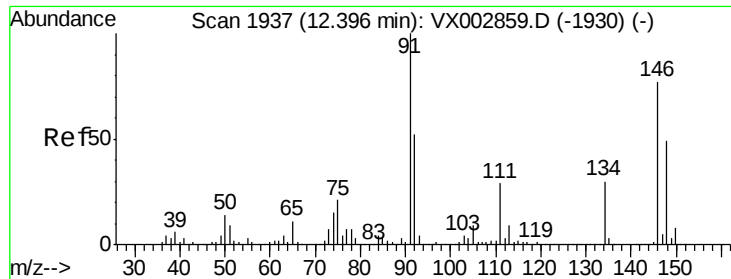


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 0.22 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX003199.D

Acq: 06 Jul 2018 04:07

Instrument :

MSVOA_X

ClientSampleId :

WP022RW358-180702

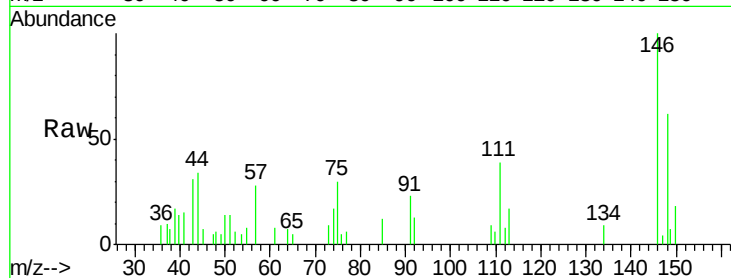
Tot Ion:146 Resp: 1574

Ion Ratio Lower Upper

146 100

111 44.5 19.4 58.1

148 64.5 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

