

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042718\
 Data File : VX001196.D
 Acq On : 28 Apr 2018 03:07
 Operator : JC/MD
 Sample : J2464-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW100-180418

Quant Time: Apr 28 05:02:22 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 27 01:51:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	196369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	267585	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	243949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	137093	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	150953	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
35) Dibromofluoromethane	5.51	113	119251	53.84	ug/l	0.00
Spiked Amount			Recovery	=	107.68%	
50) Toluene-d8	8.72	98	452082	54.09	ug/l	0.00
Spiked Amount			Recovery	=	108.18%	
62) 4-Bromofluorobenzene	11.14	95	158018	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	

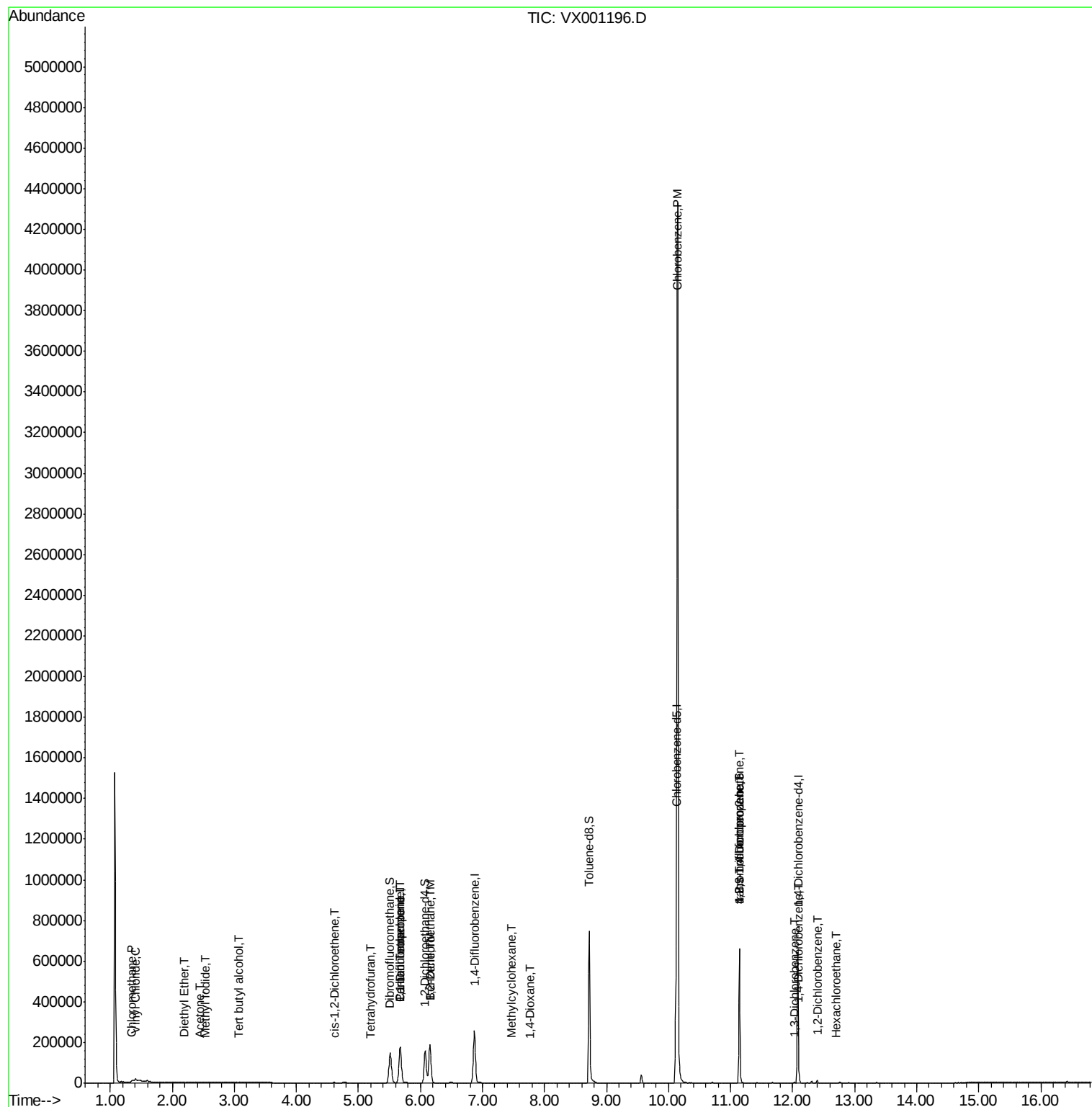
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	630	0.292	ug/l #	85
4) Vinyl Chloride	1.40	62	6900	3.015	ug/l #	86
5) Bromomethane	1.65	94	210	Below Cal		90
8) Diethyl Ether	2.20	74	727	0.512	ug/l #	41
10) Methyl Iodide	2.53	142	102	7.280	ug/l #	63
11) Tert butyl alcohol	3.07	59	914	1.523	ug/l	99
16) Acetone	2.45	43	1372	1.096	ug/l #	77
27) cis-1,2-Dichloroethene	4.61	96	1435	0.597	ug/l	89
29) Tetrahydrofuran	5.19	42	622	0.517	ug/l #	44
36) 1,1-Dichloropropene	5.68	75	12032	4.080	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16629	5.500	ug/l #	16
39) Methylcyclohexane	7.46	83	675	0.207	ug/l	96
40) Benzene	6.15	78	219979	25.789	ug/l	98
42) 1,2-Dichloroethane	6.15	62	2272	0.661	ug/l #	76
49) 1,4-Dioxane	7.76	88	229	3.880	ug/l #	68
65) Chlorobenzene	10.15	112	1959763	306.627	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	81867	29.326	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	81867	88.782	ug/l #	6
87) 1,3-Dichlorobenzene	12.03	146	1983	0.417	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	9899	1.997	ug/l	83
90) Hexachloroethane	12.71	117	311	3.596	ug/l #	1
91) 1,2-Dichlorobenzene	12.40	146	4442	0.924	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

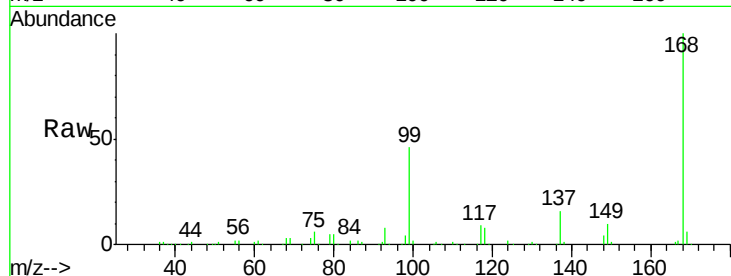
SS043MW100-180418

Tgt Ion:168 Resp: 196369

Ion Ratio Lower Upper

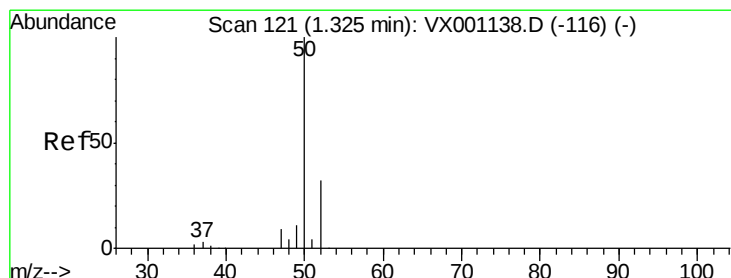
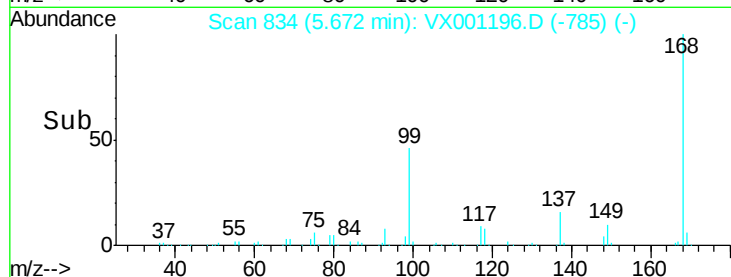
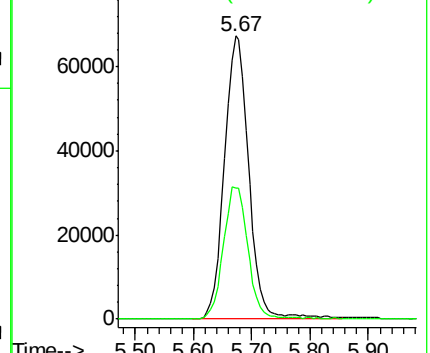
168 100

99 46.3 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.292 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX001196.D

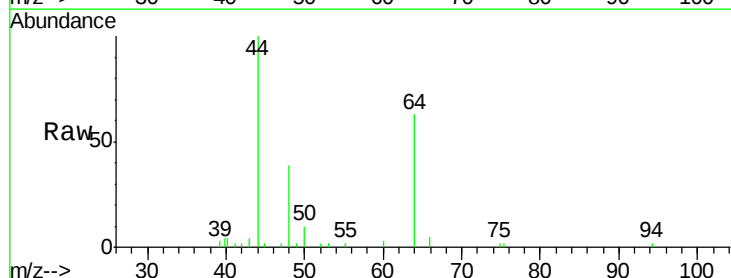
Acq: 28 Apr 2018 03:07

Tgt Ion: 50 Resp: 630

Ion Ratio Lower Upper

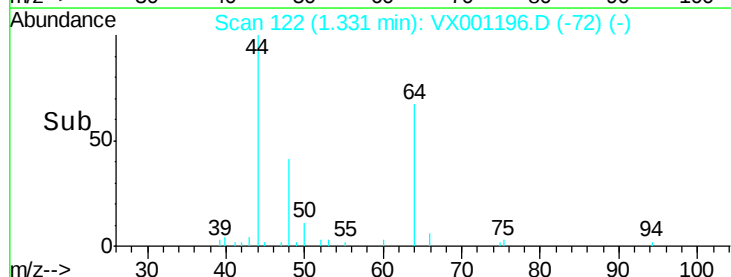
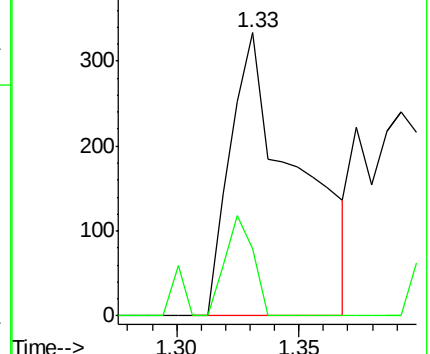
50 100

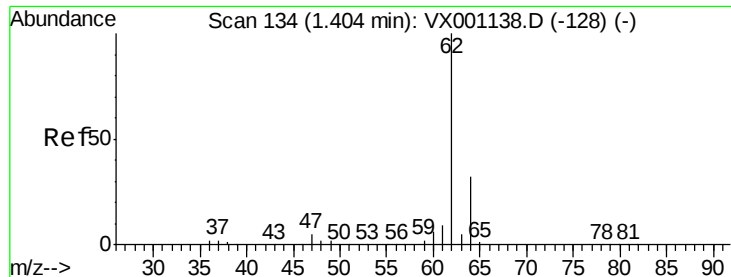
52 23.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 3.015 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

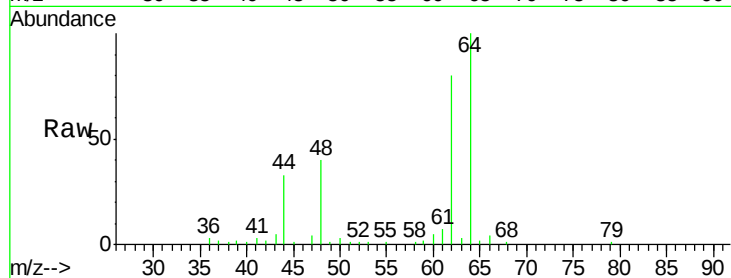
SS043MW100-180418

Tgt Ion: 62 Resp: 6900

Ion Ratio Lower Upper

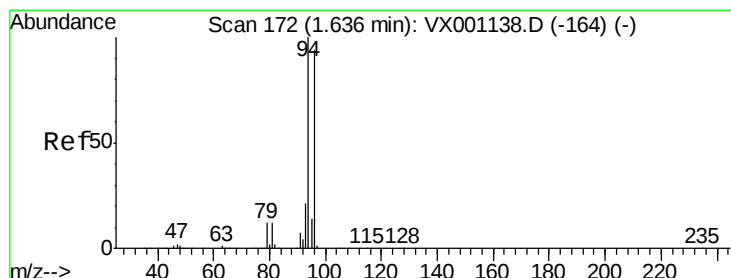
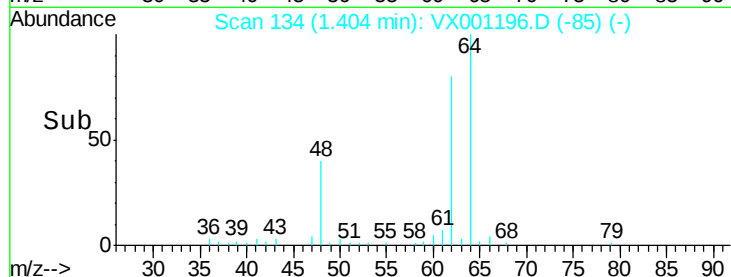
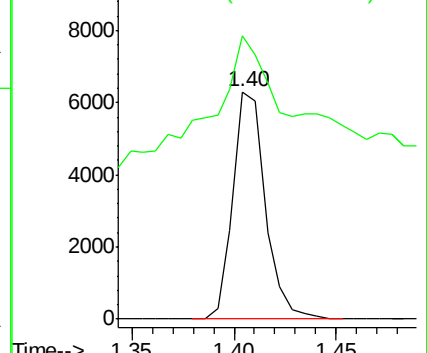
62 100

64 39.6 25.6 38.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001196.D

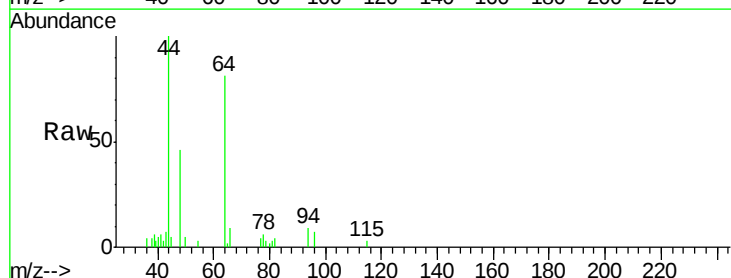
Acq: 28 Apr 2018 03:07

Tgt Ion: 94 Resp: 210

Ion Ratio Lower Upper

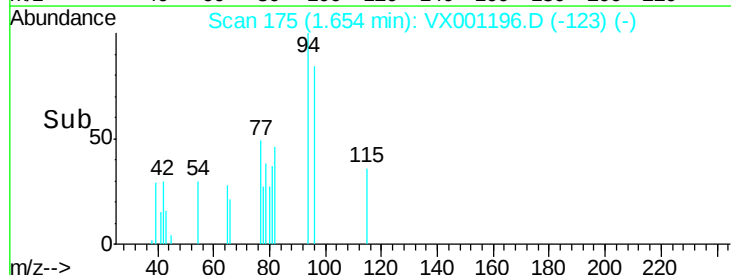
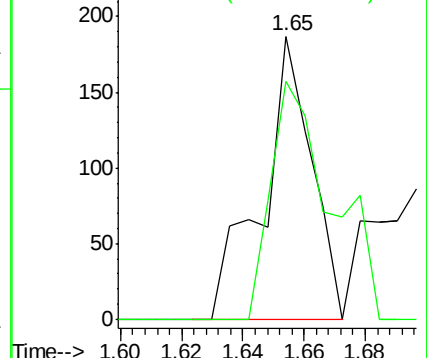
94 100

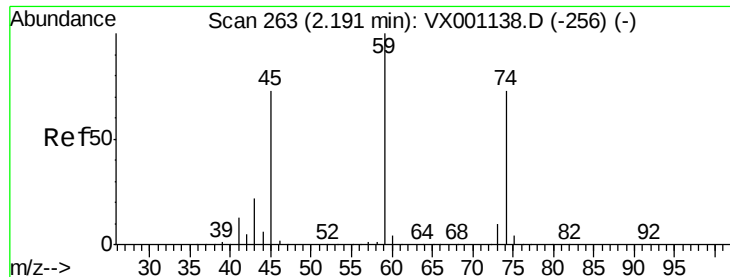
96 84.0 75.3 112.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.512 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

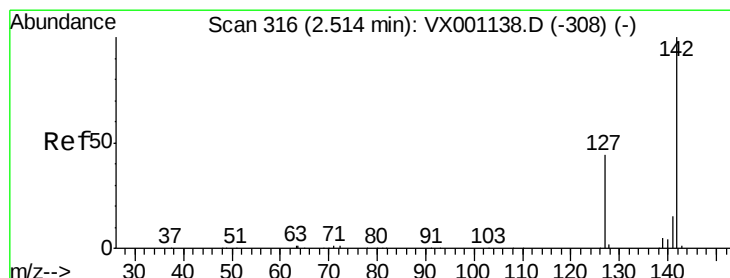
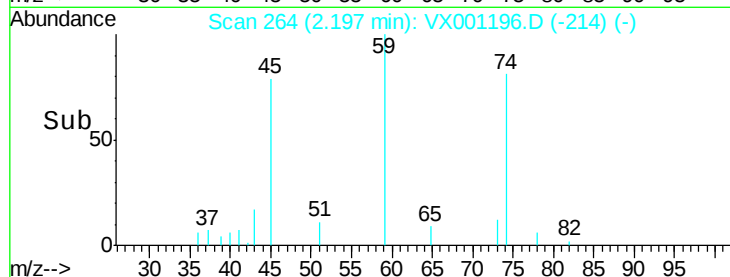
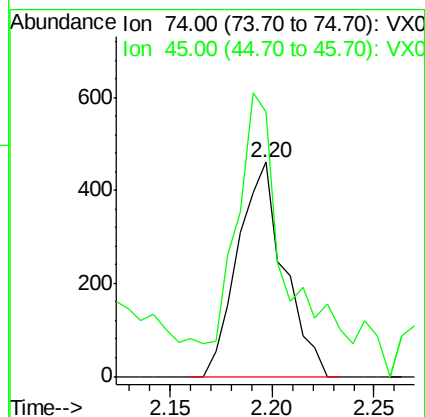
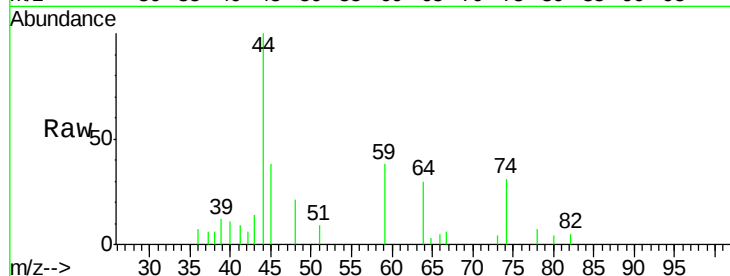
SS043MW100-180418

Tgt Ion: 74 Resp: 727

Ion Ratio Lower Upper

74 100

45 157.5 49.5 148.7#



#10

Methyl Iodide

Concen: 7.280 ug/l

RT: 2.53 min Scan# 319

Delta R.T. 0.02 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

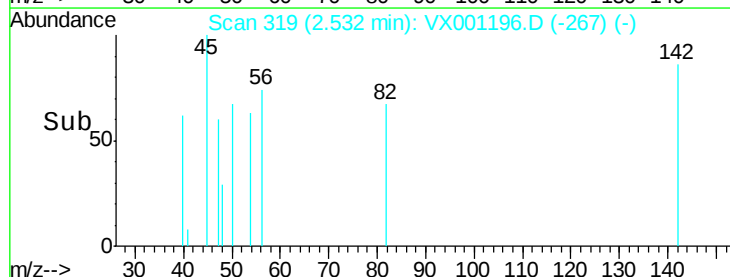
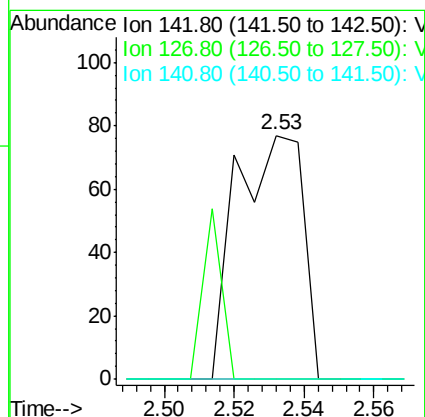
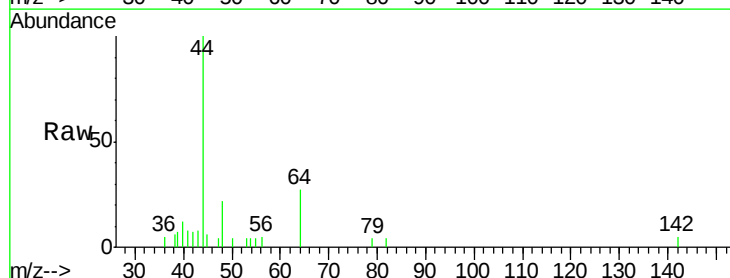
Tgt Ion: 142 Resp: 102

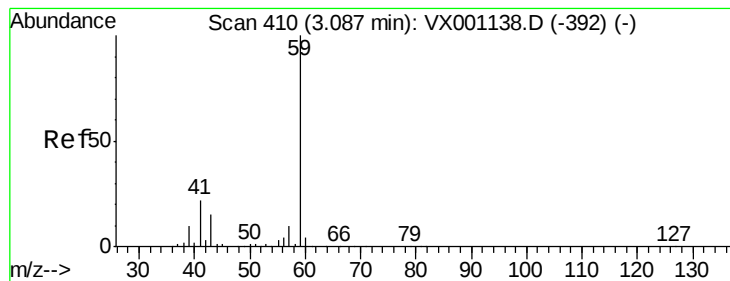
Ion Ratio Lower Upper

142 100

127 19.6 34.7 52.1#

141 0.0 11.6 17.4#



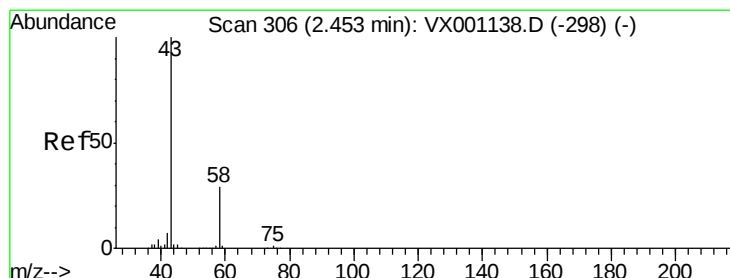
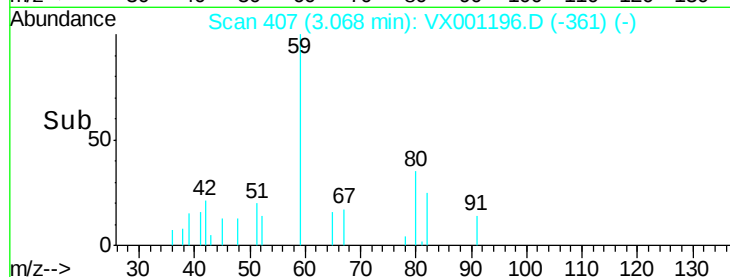
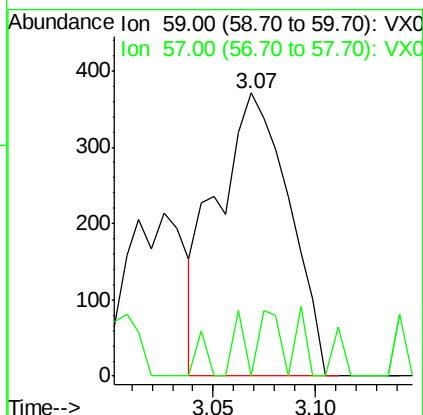
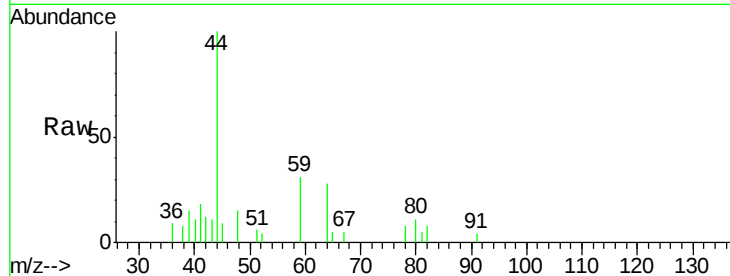


#11

Tert butyl alcohol
 Concen: 1.523 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.02 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW100-180418

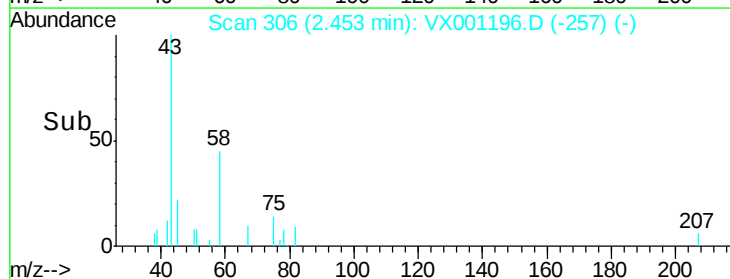
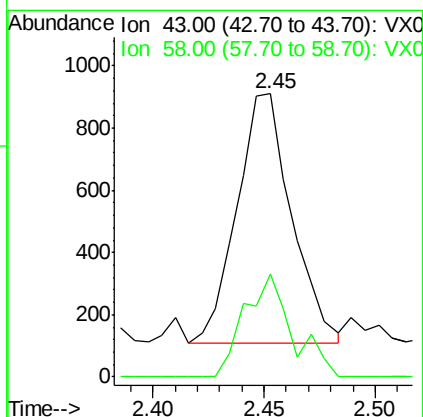
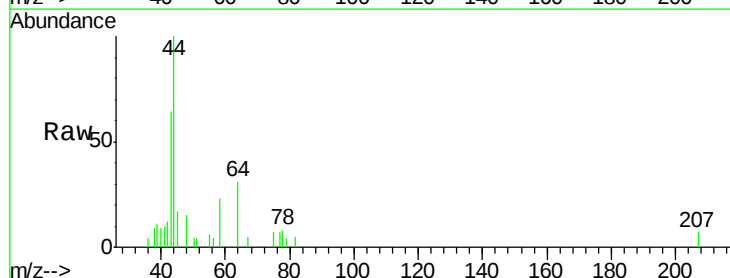
Tgt Ion: 59 Resp: 914
 Ion Ratio Lower Upper
 59 100
 57 10.1 8.2 12.4

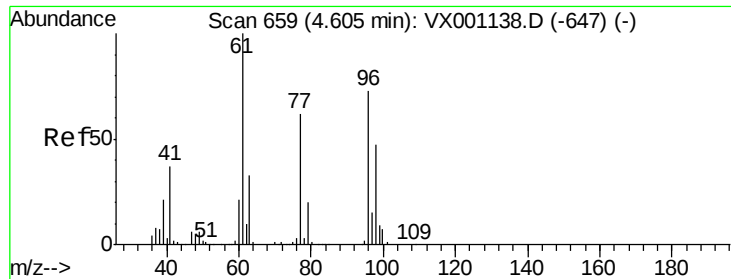


#16

Acetone
 Concen: 1.096 ug/l
 RT: 2.45 min Scan# 306
 Delta R.T. 0.00 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

Tgt Ion: 43 Resp: 1372
 Ion Ratio Lower Upper
 43 100
 58 41.1 23.0 34.6#





#27

cis-1,2-Dichloroethene

Concen: 0.597 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

SS043MW100-180418

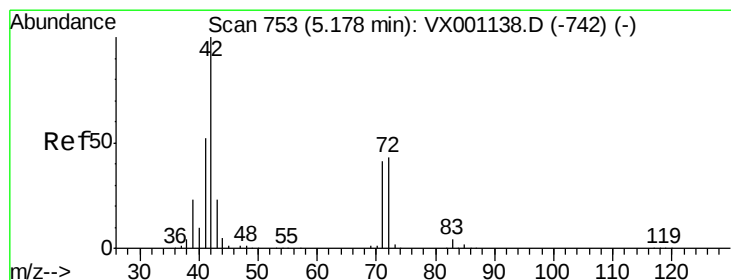
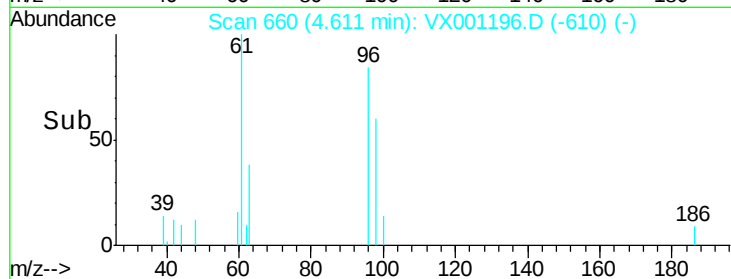
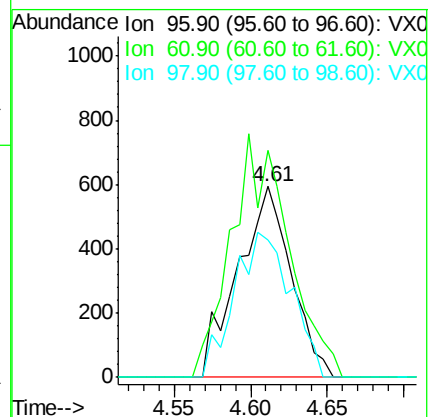
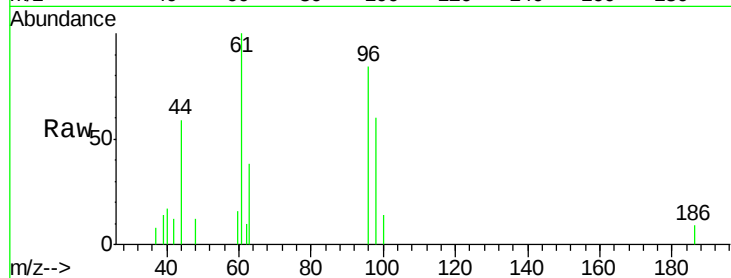
Tgt Ion: 96 Resp: 1435

Ion Ratio Lower Upper

96 100

61 136.9 0.0 289.0

98 80.9 0.0 128.2



#29

Tetrahydrofuran

Concen: 0.517 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

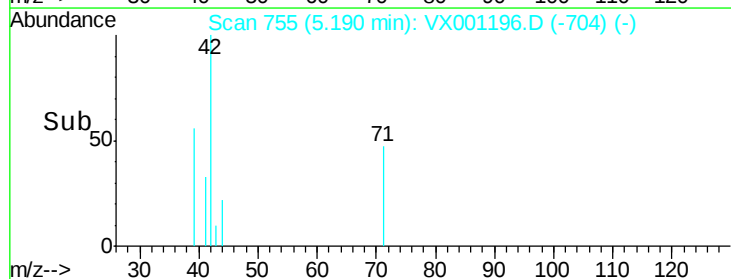
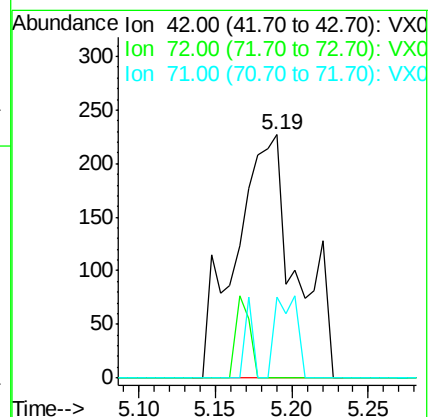
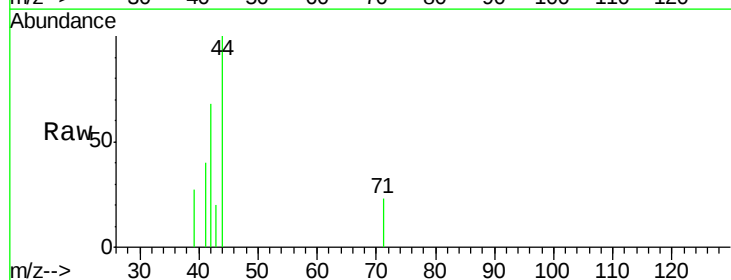
Tgt Ion: 42 Resp: 622

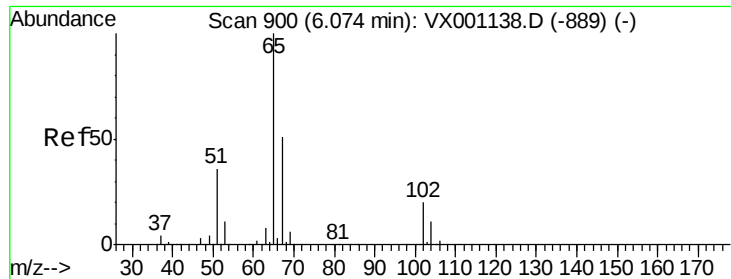
Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

71 12.5 32.1 48.1#

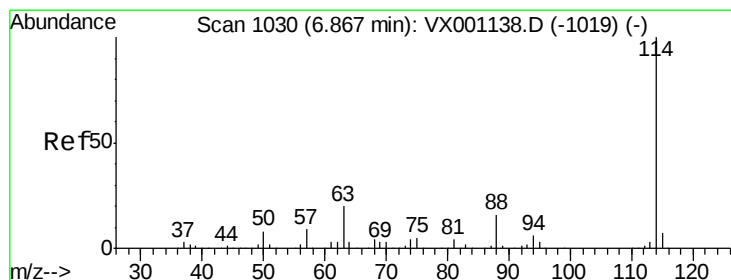
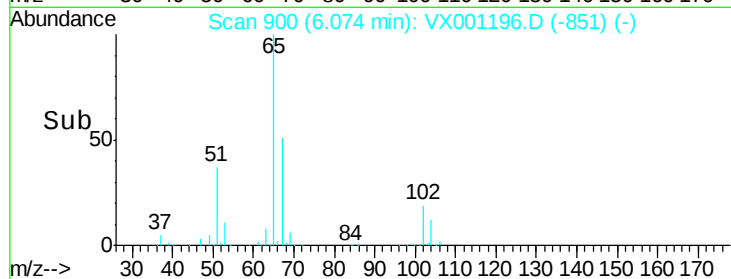
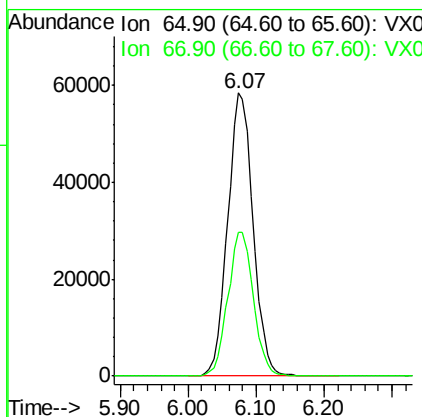
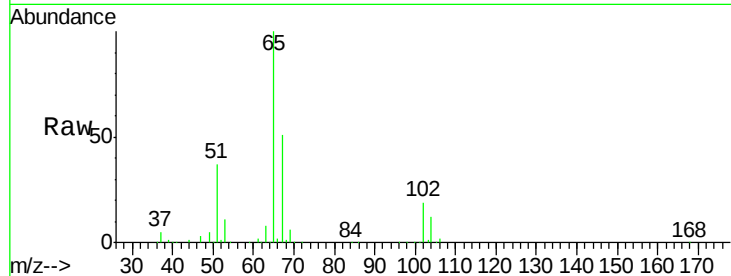




#33
 1,2-Dichloroethane-d4
 Concen: 49.591 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

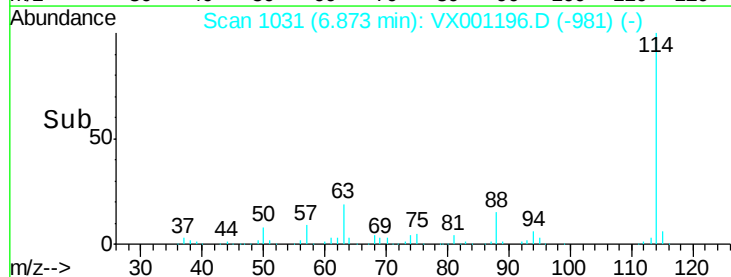
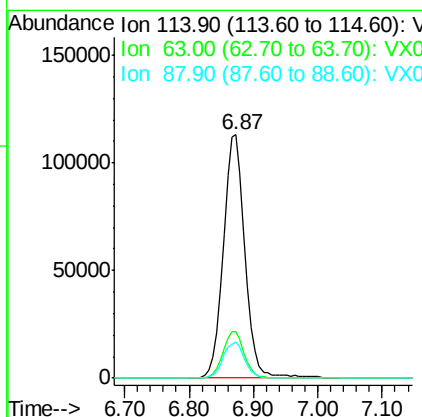
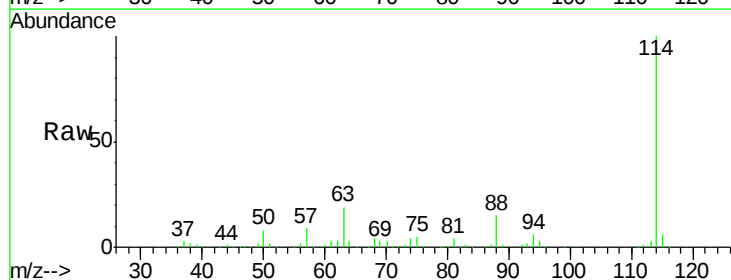
Instrument :
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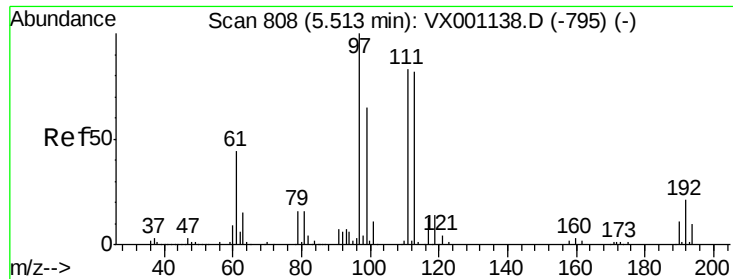
Tgt Ion: 65 Resp: 150953
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

Tgt Ion: 114 Resp: 267585
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 40.4
 88 14.6 0.0 31.8

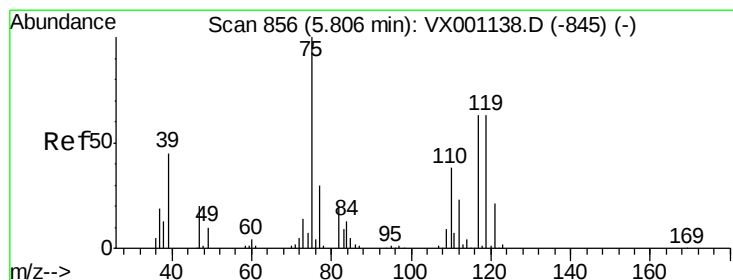
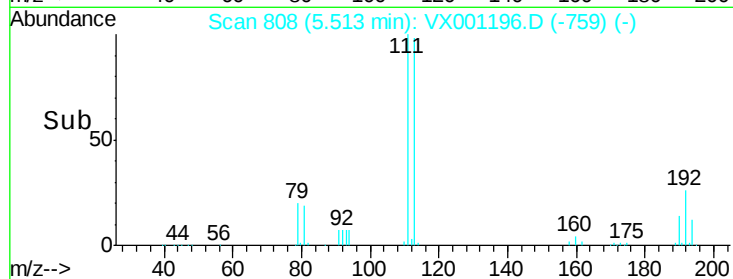
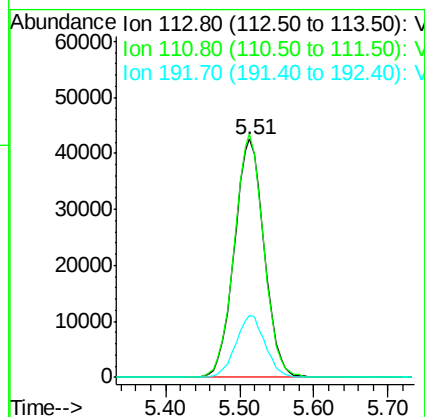
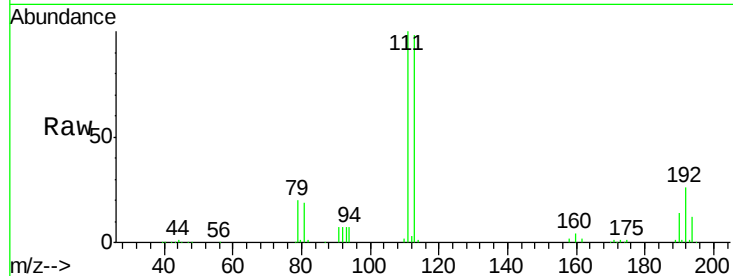




#35
 Dibromofluoromethane
 Concen: 53.843 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

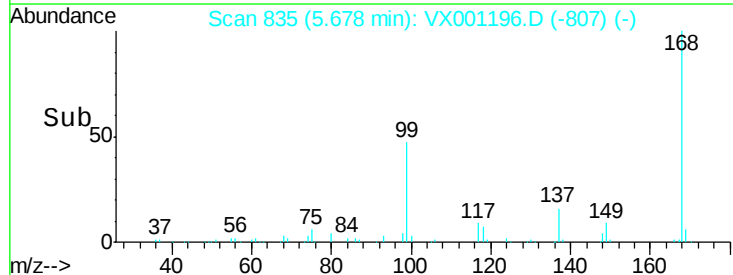
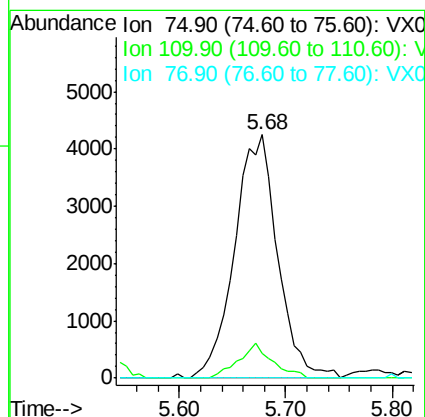
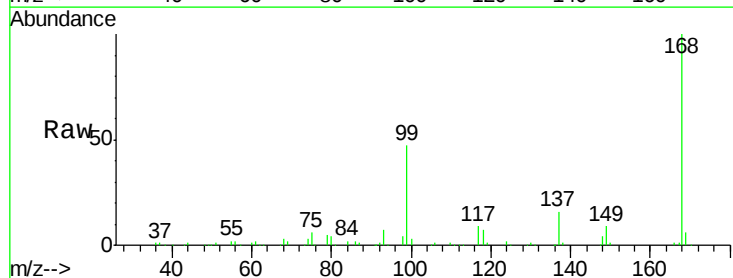
Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW100-180418

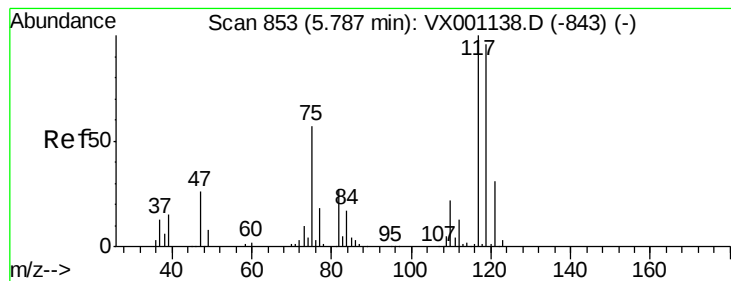
Tgt Ion:113 Resp: 119251
 Ion Ratio Lower Upper
 113 100
 111 100.5 82.2 123.4
 192 25.5 20.6 30.8



#36
 1,1-Dichloropropene
 Concen: 4.080 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

Tgt Ion: 75 Resp: 12032
 Ion Ratio Lower Upper
 75 100
 110 11.3 19.0 57.0#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 5.500 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

SS043MW100-180418

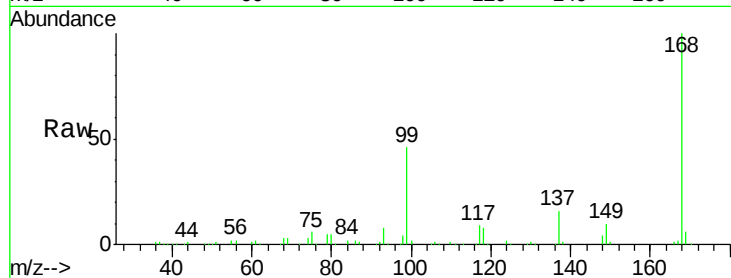
Tgt Ion: 117 Resp: 16629

Ion Ratio Lower Upper

117 100

119 4.4 76.5 114.7#

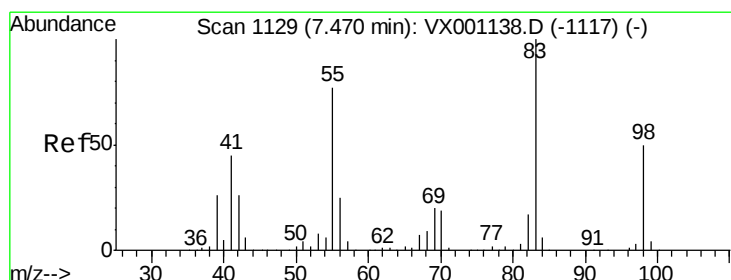
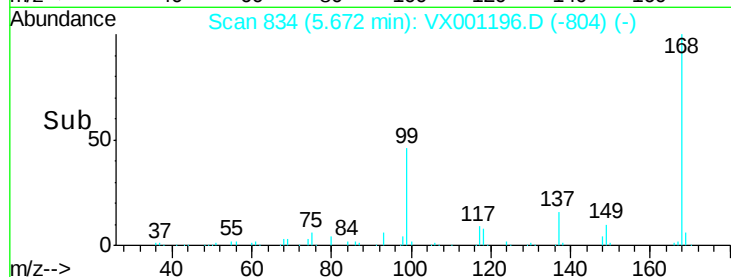
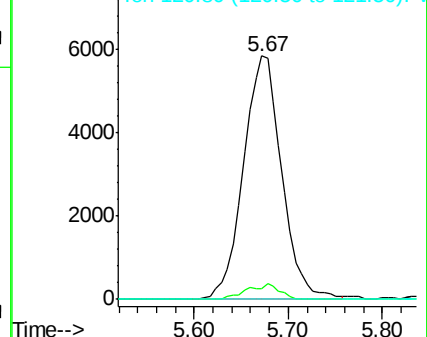
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.207 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

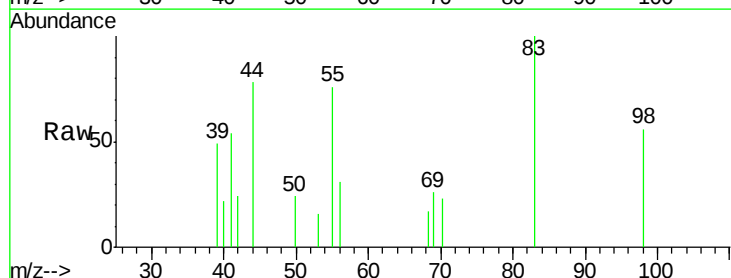
Tgt Ion: 83 Resp: 675

Ion Ratio Lower Upper

83 100

55 76.3 61.8 92.6

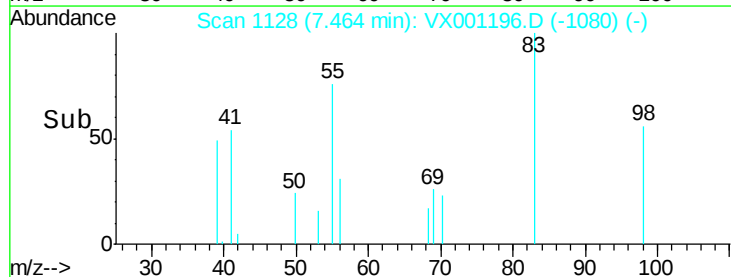
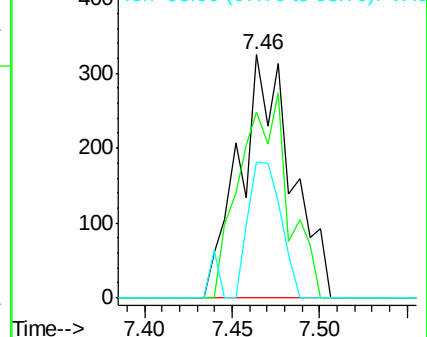
98 56.0 40.0 60.0

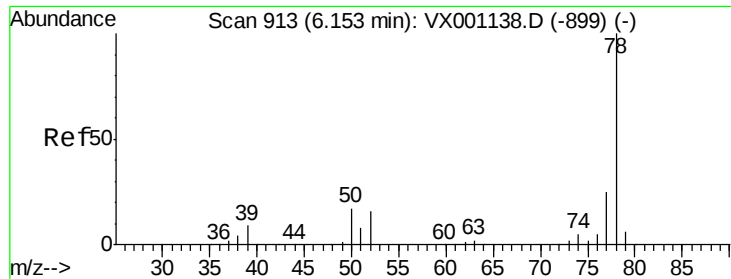


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

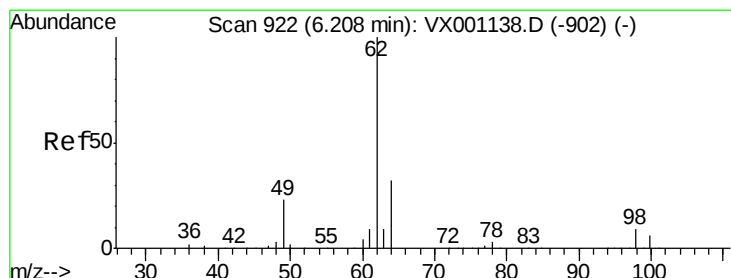
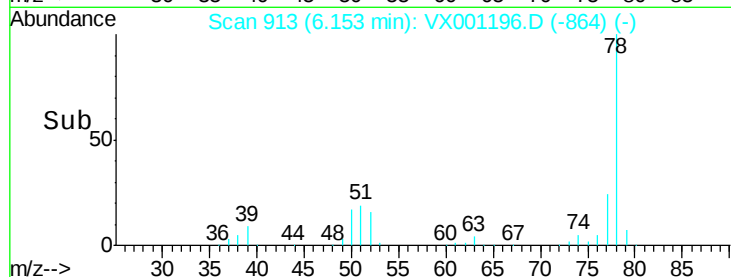
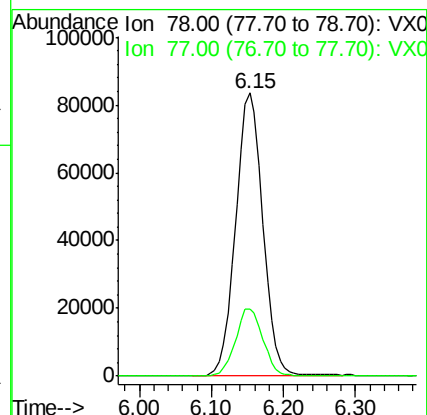
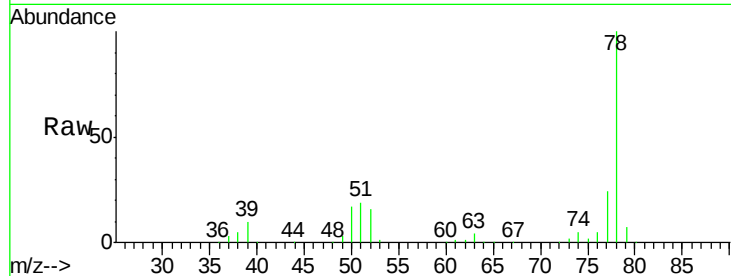




#40
Benzene
Concen: 25.789 ug/l
RT: 6.15 min Scan# 913
Delta R.T. 0.00 min
Lab File: VX001196.D
Acq: 28 Apr 2018 03:07

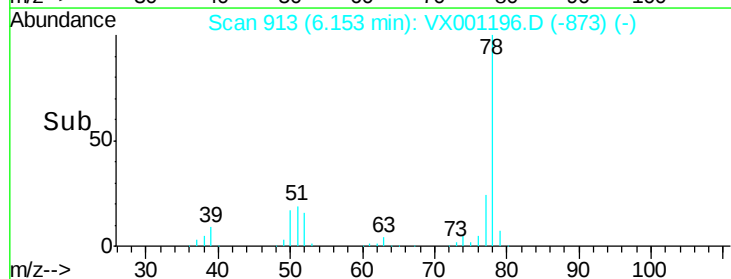
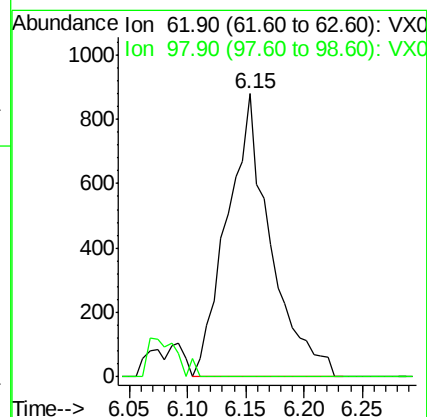
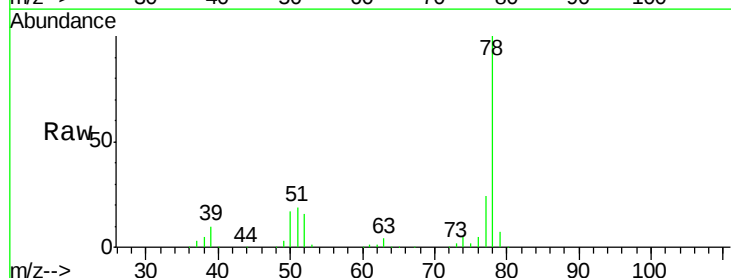
Instrument :
MSVOA_X
ClientSampleId :
SS043MW100-180418

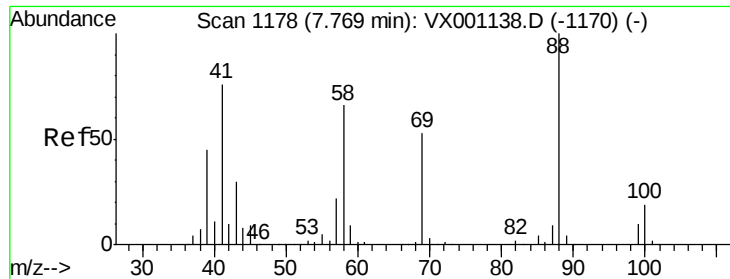
Tgt Ion: 78 Resp: 219979
Ion Ratio Lower Upper
78 100
77 23.8 19.7 29.5



#42
1,2-Dichloroethane
Concen: 0.661 ug/l
RT: 6.15 min Scan# 913
Delta R.T. -0.05 min
Lab File: VX001196.D
Acq: 28 Apr 2018 03:07

Tgt Ion: 62 Resp: 2272
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0

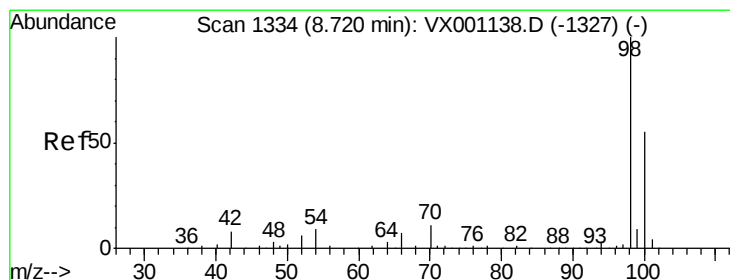
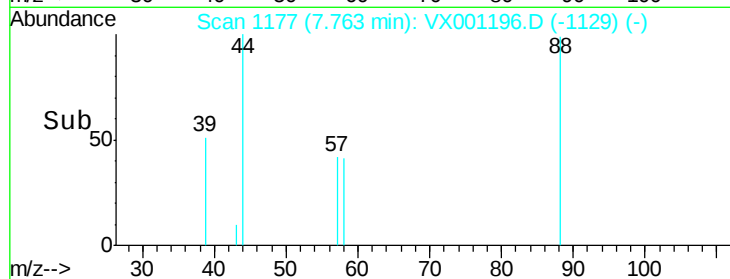
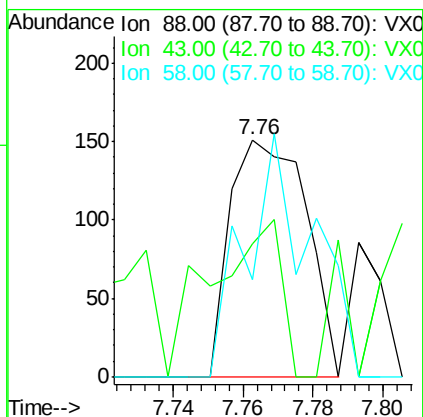
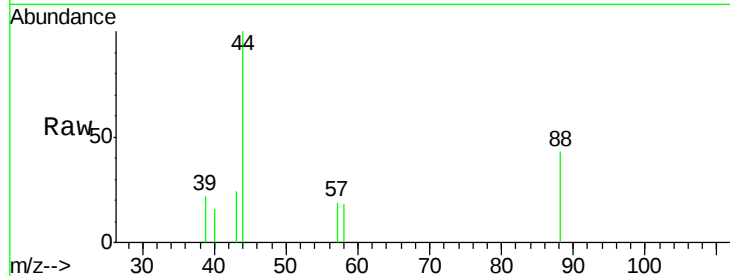




#49
1,4-Dioxane
Concen: 3.880 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. -0.01 min
Lab File: VX001196.D
Acq: 28 Apr 2018 03:07

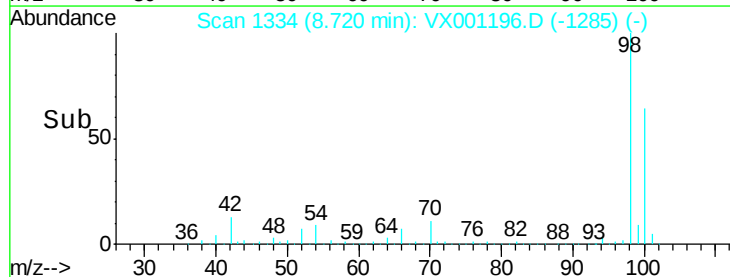
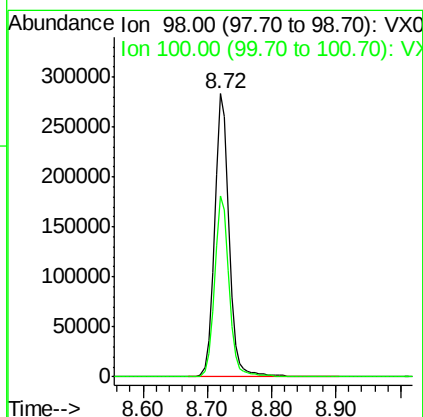
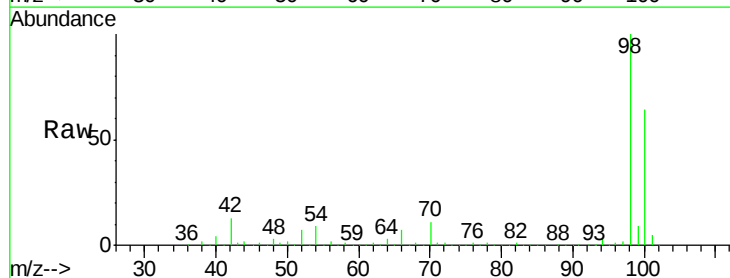
Instrument :
MSVOA_X
ClientSampleId :
SS043MW100-180418

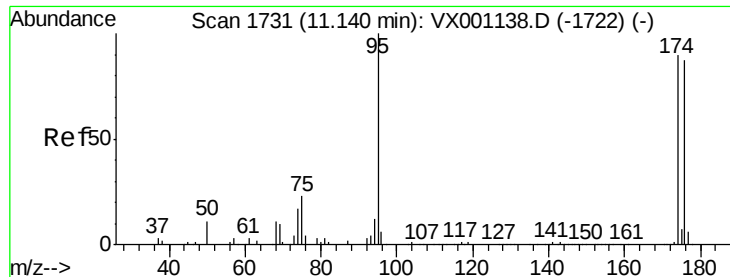
Tgt Ion: 88 Resp: 229
Ion Ratio Lower Upper
88 100
43 60.3 27.3 40.9#
58 87.8 54.2 81.4#



#50
Toluene-d8
Concen: 54.088 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001196.D
Acq: 28 Apr 2018 03:07

Tgt Ion: 98 Resp: 452082
Ion Ratio Lower Upper
98 100
100 64.0 51.8 77.6





#62

4-Bromofluorobenzene

Concen: 48.395 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

SS043MW100-180418

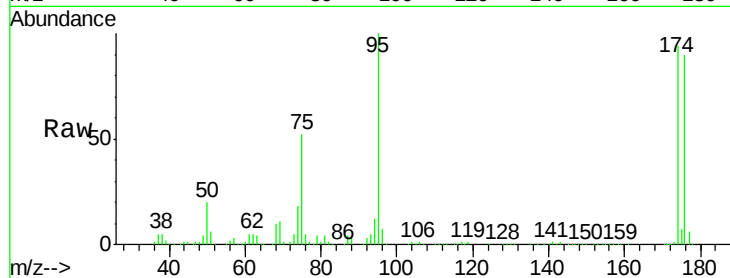
Tgt Ion: 95 Resp: 158018

Ion Ratio Lower Upper

95 100

174 102.3 0.0 194.4

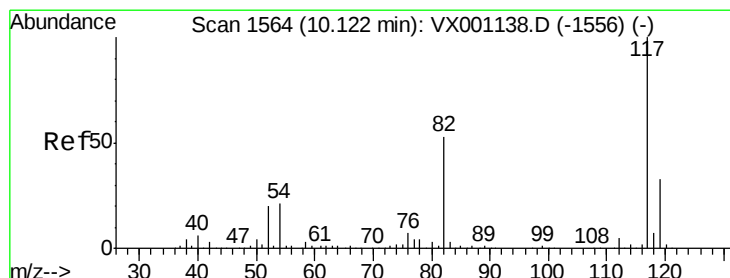
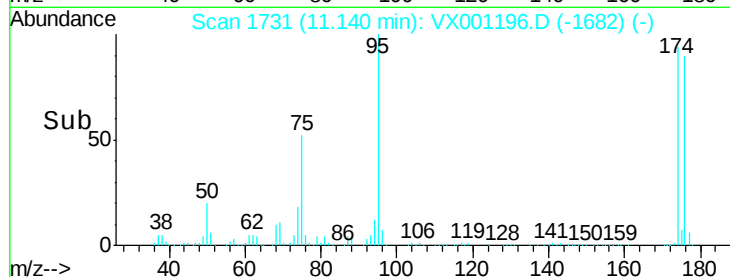
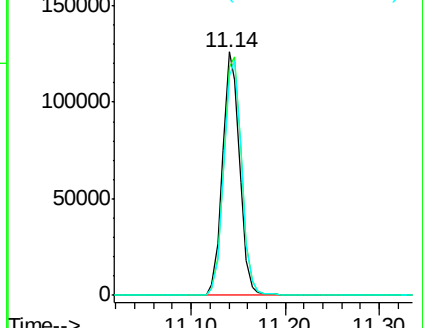
176 100.4 0.0 190.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

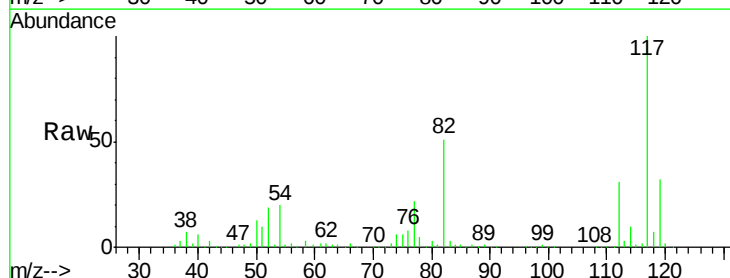
Tgt Ion: 117 Resp: 243949

Ion Ratio Lower Upper

117 100

82 50.9 42.1 63.1

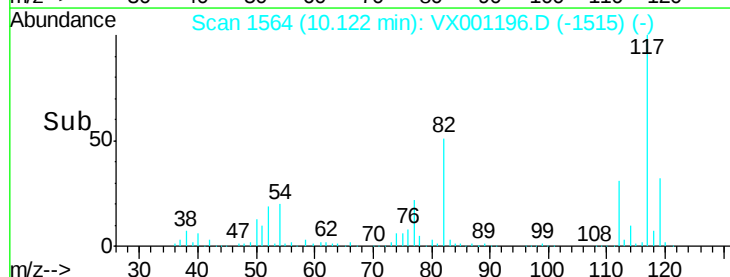
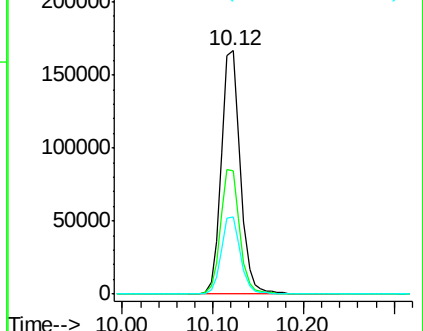
119 31.7 26.1 39.1

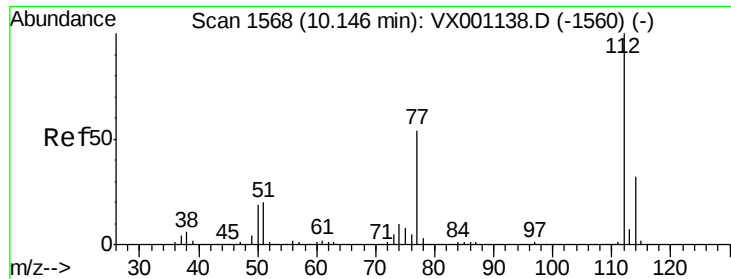


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

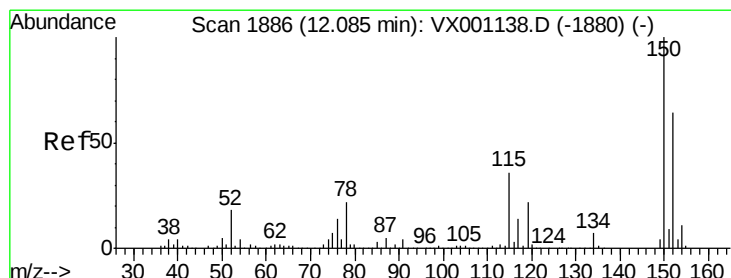
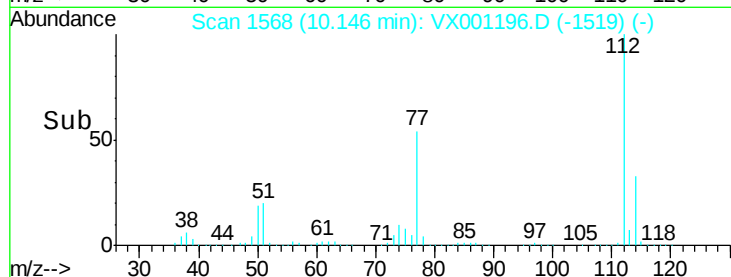
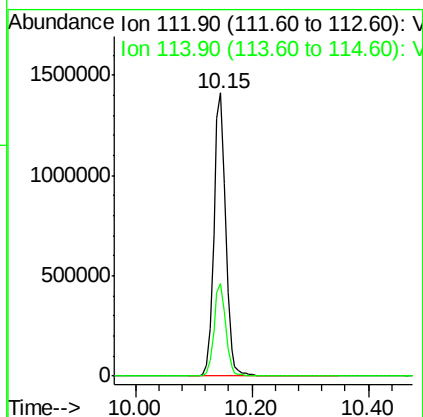
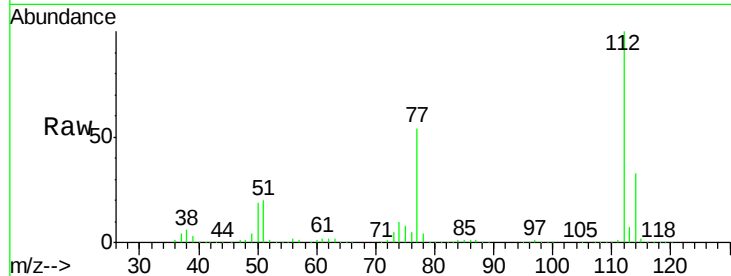




#65
Chlorobenzene
Concen: 306.627 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX001196.D
Acq: 28 Apr 2018 03:07

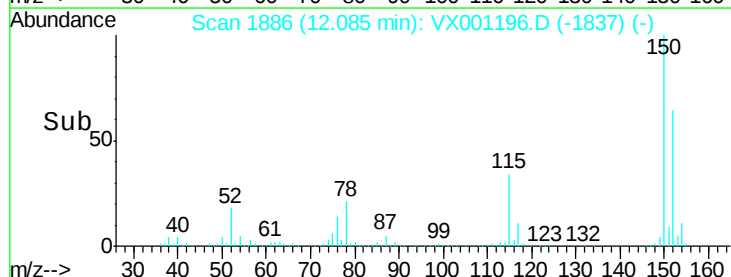
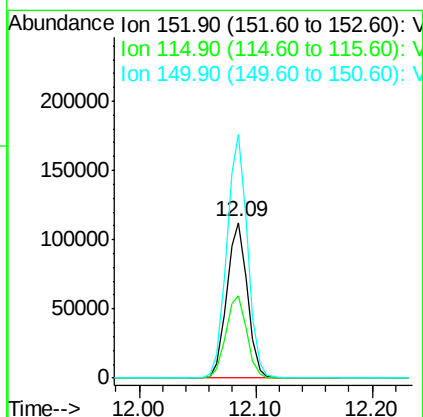
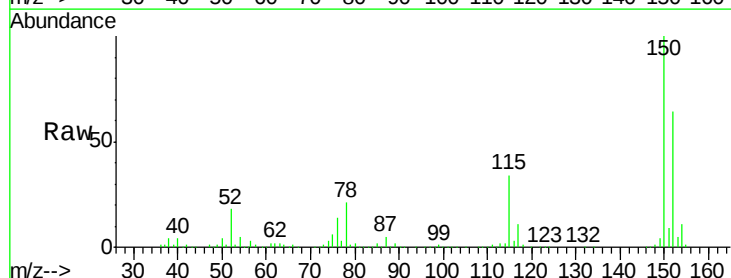
Instrument :
MSVOA_X
ClientSampleId :
SS043MW100-180418

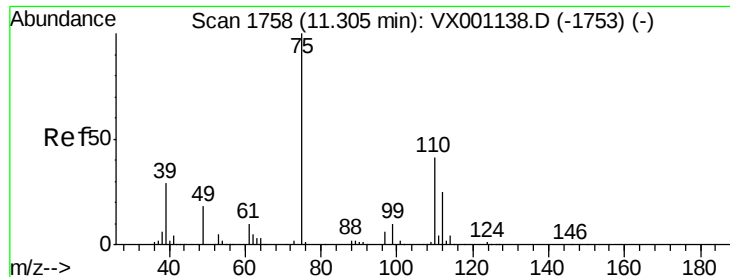
Tgt Ion:112 Resp: 1959763
Ion Ratio Lower Upper
112 100
114 32.9 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001196.D
Acq: 28 Apr 2018 03:07

Tgt Ion:152 Resp: 137093
Ion Ratio Lower Upper
152 100
115 53.9 38.0 114.0
150 157.4 0.0 349.6





#76

1,2,3-Trichloropropane

Concen: 29.326 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

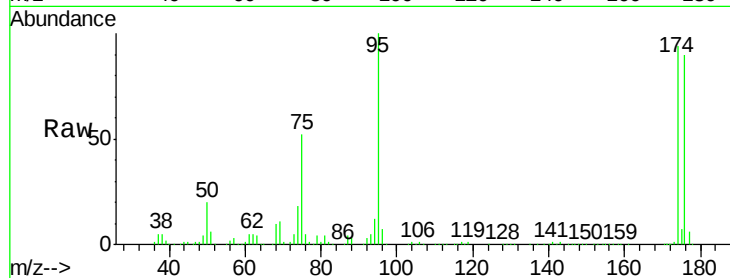
SS043MW100-180418

Tgt Ion: 75 Resp: 81867

Ion Ratio Lower Upper

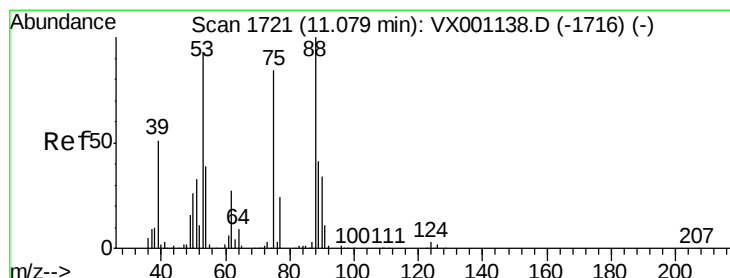
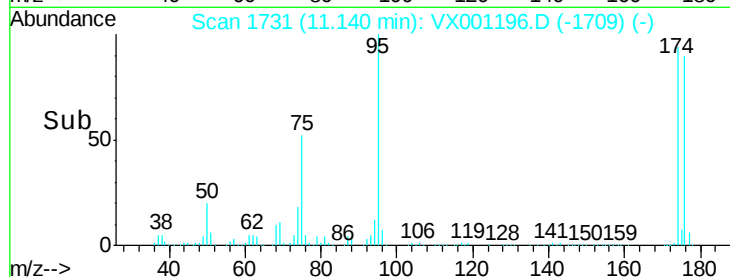
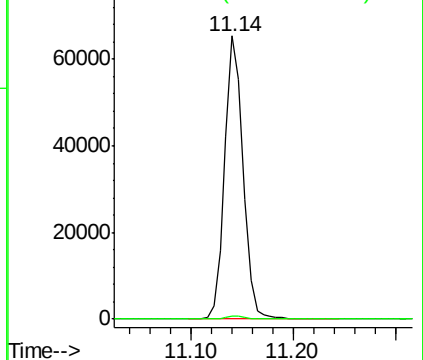
75 100

77 1.3 18.9 56.9#



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: 88.782 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

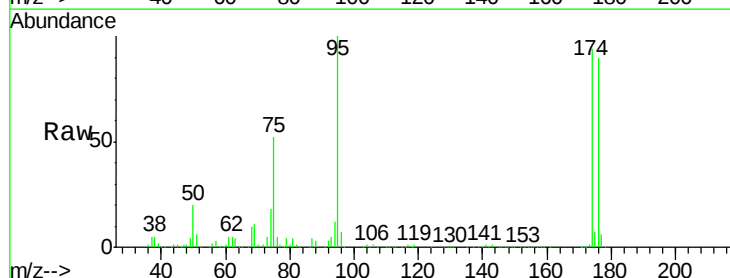
Tgt Ion: 75 Resp: 81867

Ion Ratio Lower Upper

75 100

53 0.0 87.9 131.9#

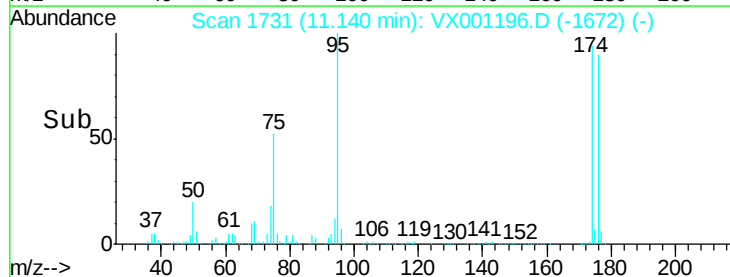
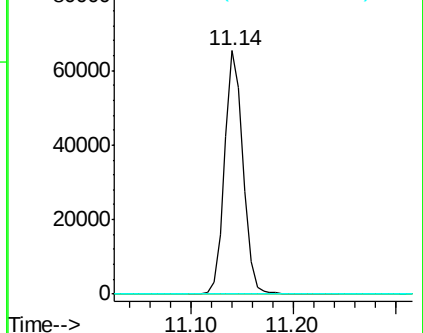
89 0.0 37.7 56.5#

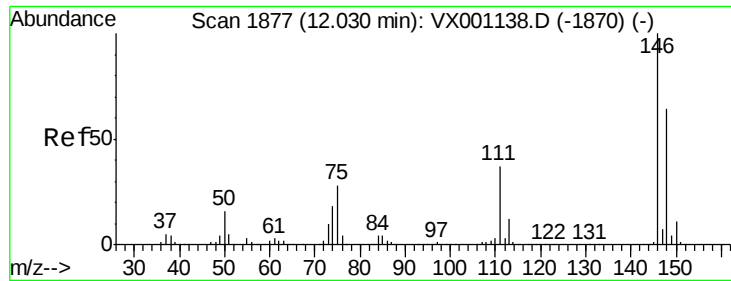


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

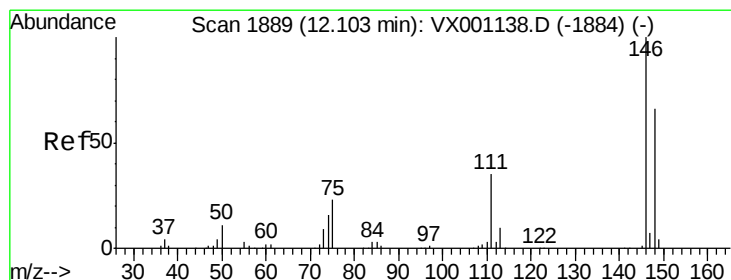
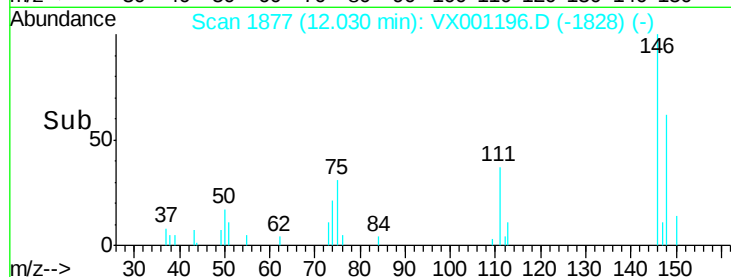
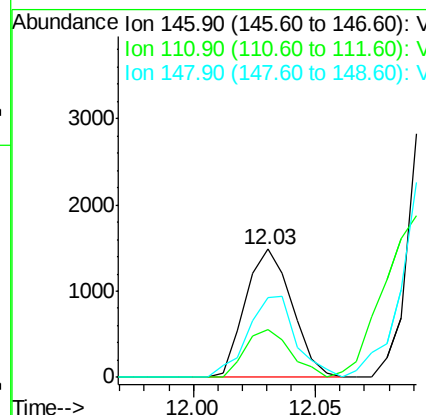
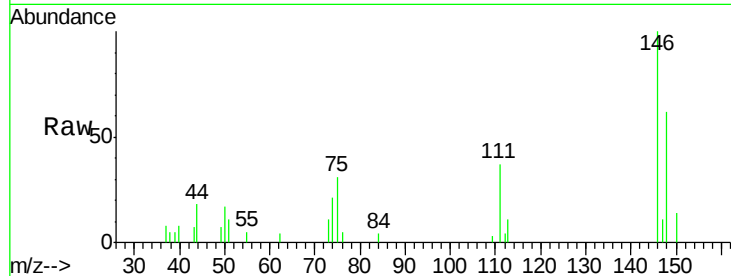




#87
 1,3-Dichlorobenzene
 Concen: 0.417 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

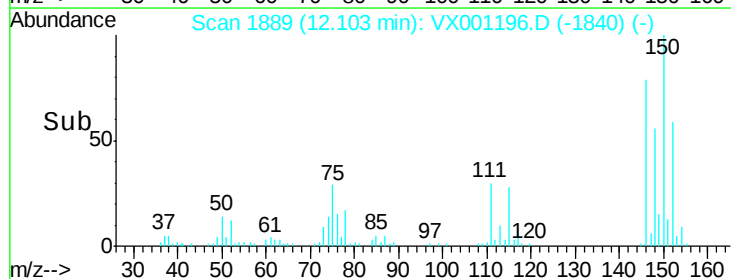
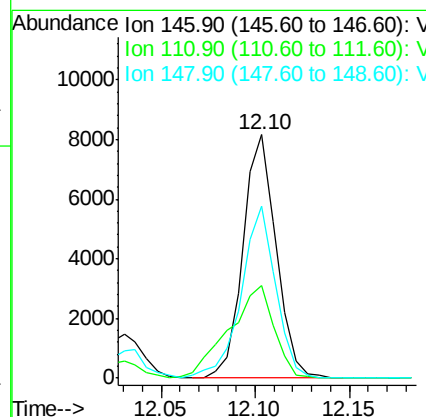
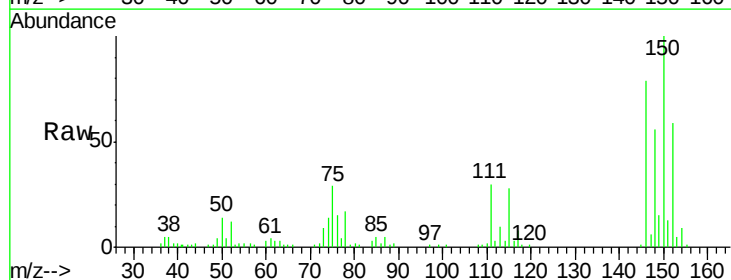
Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW100-180418

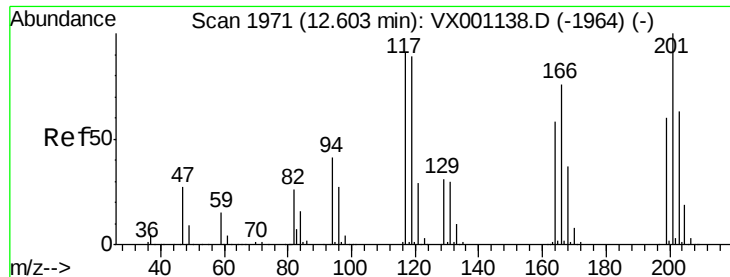
Tgt Ion:146 Resp: 1983
 Ion Ratio Lower Upper
 146 100
 111 36.2 18.6 56.0
 148 65.1 32.3 96.8



#88
 1,4-Dichlorobenzene
 Concen: 1.997 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. 0.00 min
 Lab File: VX001196.D
 Acq: 28 Apr 2018 03:07

Tgt Ion:146 Resp: 9899
 Ion Ratio Lower Upper
 146 100
 111 52.3 18.0 54.0
 148 74.1 32.5 97.5





#90

Hexachloroethane

Concen: 3.596 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.10 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

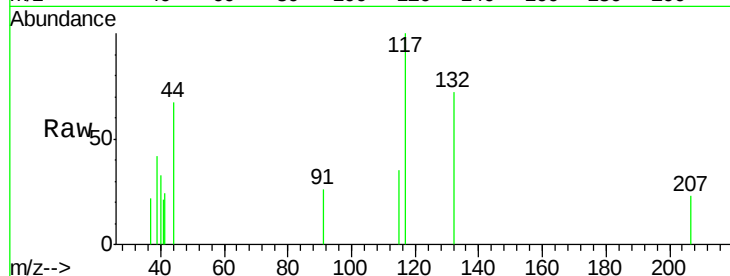
SS043MW100-180418

Tgt Ion:117 Resp: 311

Ion Ratio Lower Upper

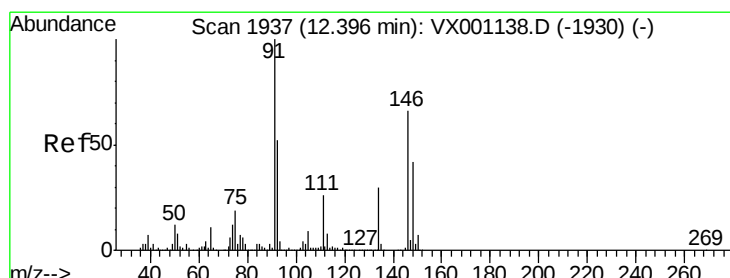
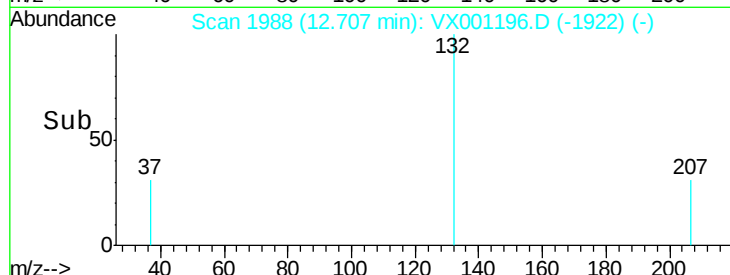
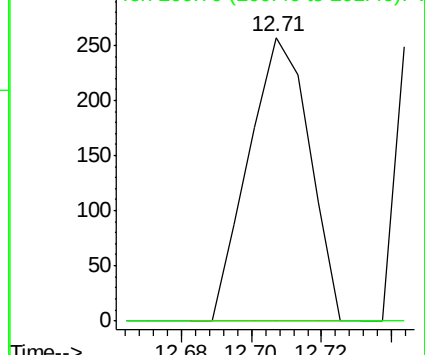
117 100

201 0.0 51.8 155.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.924 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX001196.D

Acq: 28 Apr 2018 03:07

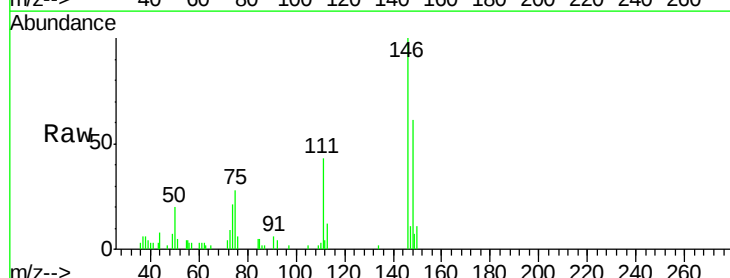
Tgt Ion:146 Resp: 4442

Ion Ratio Lower Upper

146 100

111 39.3 19.1 57.3

148 66.8 32.2 96.6



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

