

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070218\
 Data File : VX003136.D
 Acq On : 02 Jul 2018 19:18
 Operator : JC/MD
 Sample : PB110744ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110744ZHE#12

Quant Time: Jul 03 06:59:22 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	280113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	389117	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	361350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	209327	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	178961	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	
35) Dibromofluoromethane	5.51	113	149144	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
50) Toluene-d8	8.72	98	547229	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	11.14	95	196138	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	

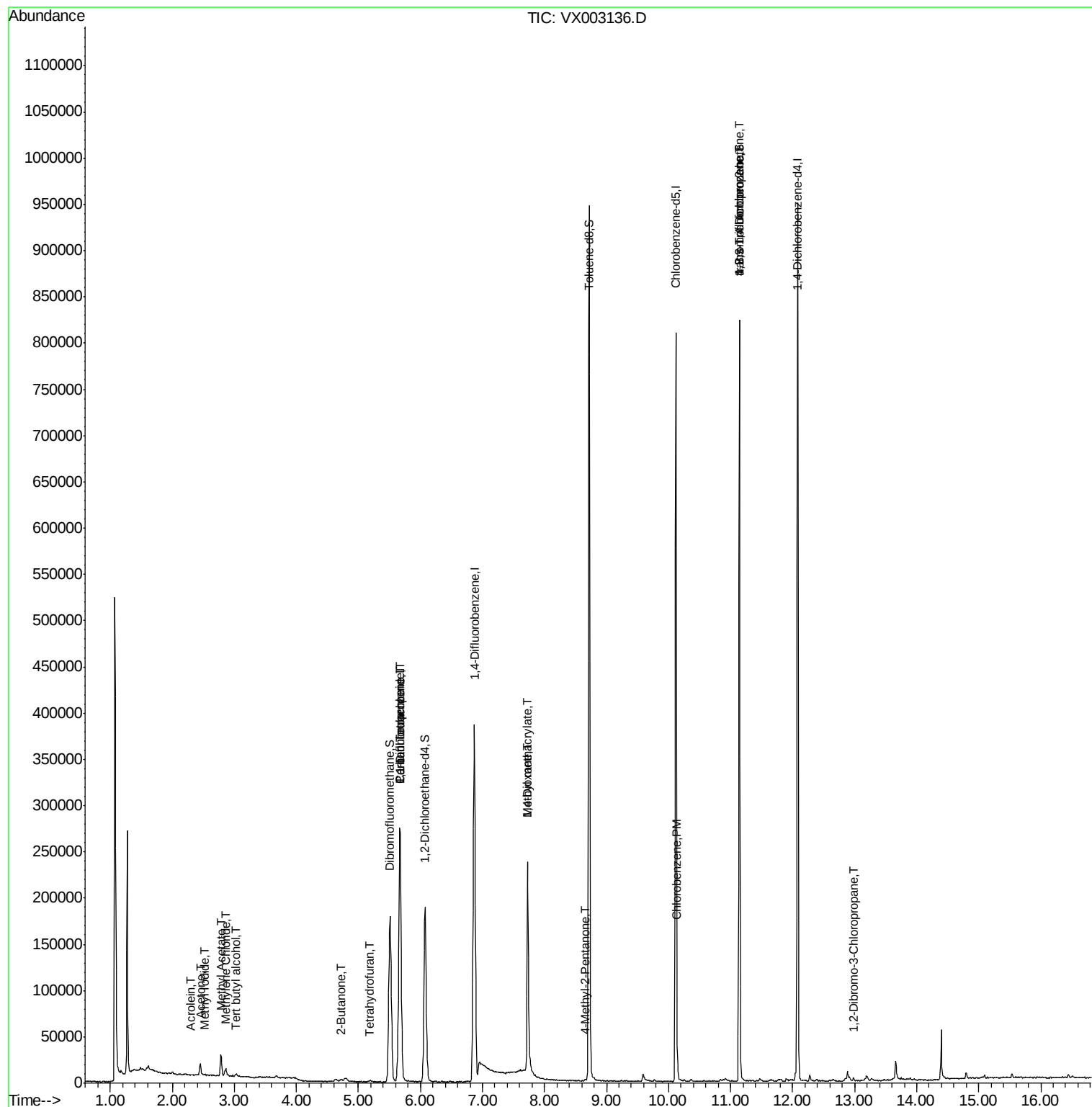
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	95	Below Cal	#	43
3) Chloromethane	1.32	50	303	Below Cal	#	28
5) Bromomethane	1.64	94	871	Below Cal	#	74
6) Chloroethane	1.71	64	1191	Below Cal	#	59
10) Methyl Iodide	2.52	142	1277	6.58	ug/l	85
11) Tert butyl alcohol	3.03	59	2356	3.05	ug/l	84
13) Acrolein	2.29	56	102	4.46	ug/l	14
16) Acetone	2.45	43	13767	8.59	ug/l	97
18) Methyl Acetate	2.78	43	27017	6.03	ug/l	95
20) Methylene Chloride	2.85	84	3905	1.25	ug/l	91
25) 2-Butanone	4.72	43	3614	1.52	ug/l	85
29) Tetrahydrofuran	5.18	42	1446	0.95	ug/l	95
36) 1,1-Dichloropropene	5.67	75	17856	4.18	ug/l	52
38) Carbon Tetrachloride	5.67	117	24774	5.29	ug/l	16
48) Methyl methacrylate	7.73	41	7550	1.90	ug/l	22
49) 1,4-Dioxane	7.73	88	47	0.61	ug/l	1
51) 4-Methyl-2-Pentanone	8.65	43	1621	0.34	ug/l	97
65) Chlorobenzene	10.14	112	2353	0.26	ug/l	88
76) 1,2,3-Trichloropropane	11.14	75	99966	26.36	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	99966	74.71	ug/l	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	428	0.44	ug/l	1

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

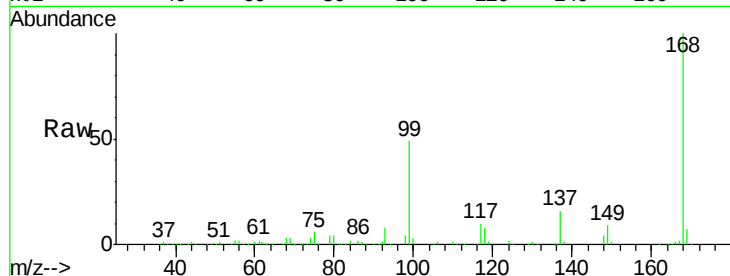
PB110744ZHE#12

Tot Ion:168 Resp: 280113

Ion Ratio Lower Upper

168 100

99 48.7 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

120000

100000

80000

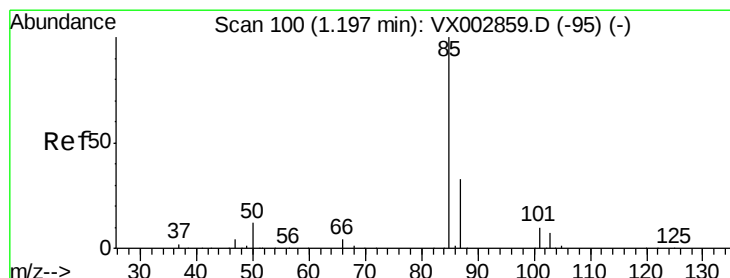
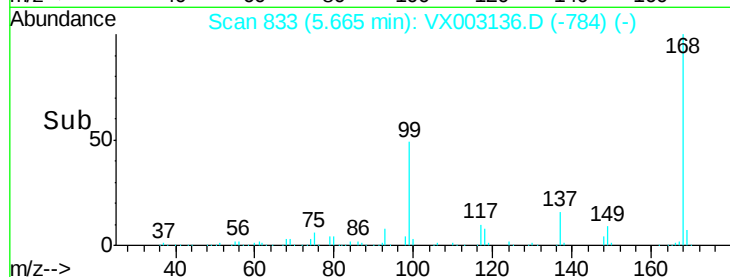
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 125

Delta R.T. 0.15 min

Lab File: VX003136.D

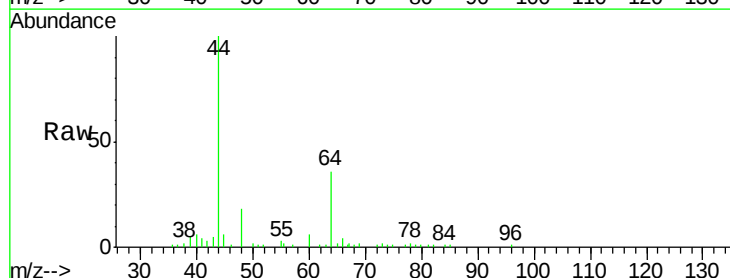
Acq: 02 Jul 2018 19:18

Tgt Ion: 85 Resp: 95

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

1.35

100

80

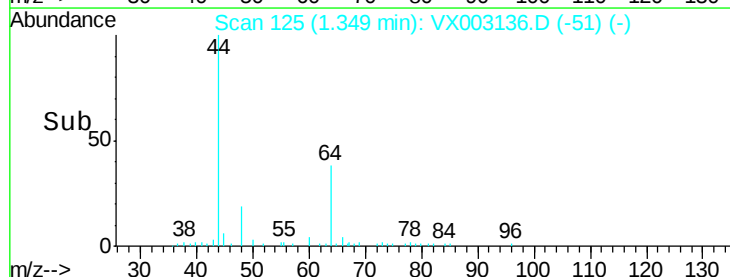
60

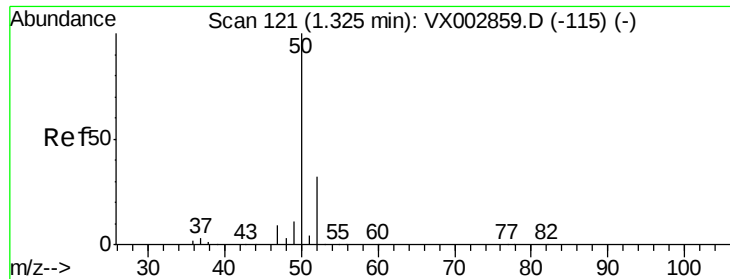
40

20

0

Time--> 1.32 1.34 1.36





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

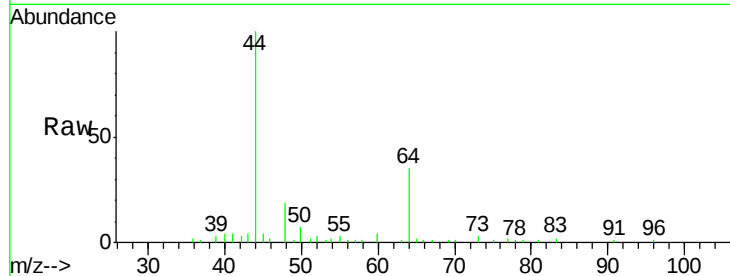
PB110744ZHE#12

Tot Ion: 50 Resp: 303

Ion Ratio Lower Upper

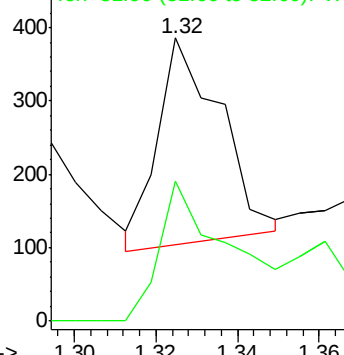
50 100

52 72.3 25.7 38.5#

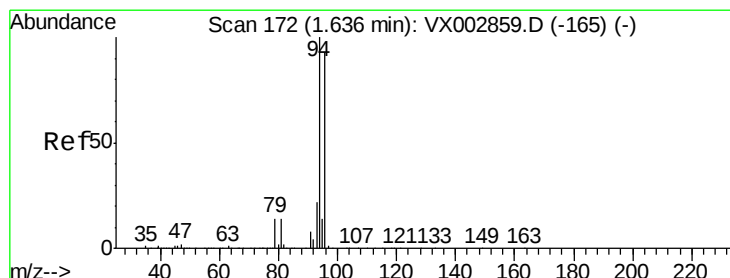
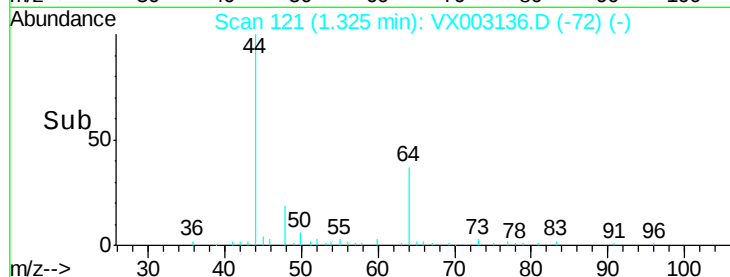


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003136.D

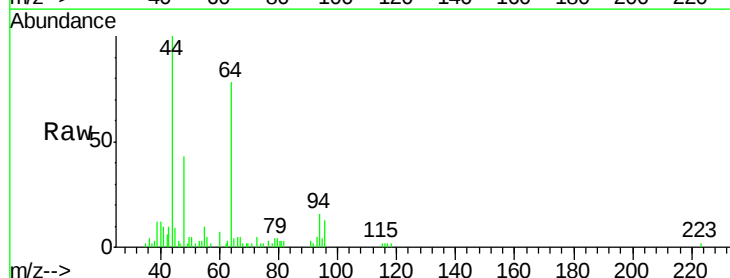
Acq: 02 Jul 2018 19:18

Tgt Ion: 94 Resp: 871

Ion Ratio Lower Upper

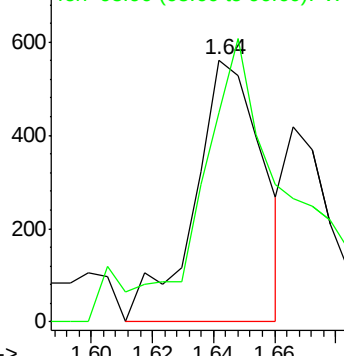
94 100

96 68.3 74.9 112.3#

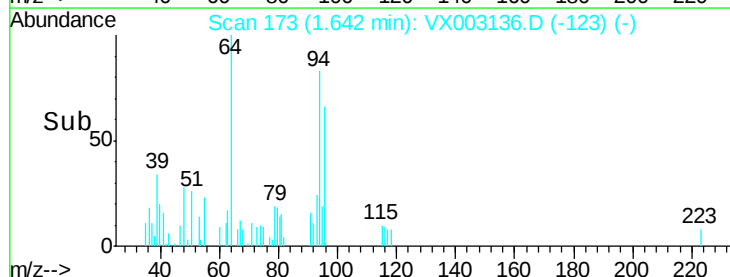


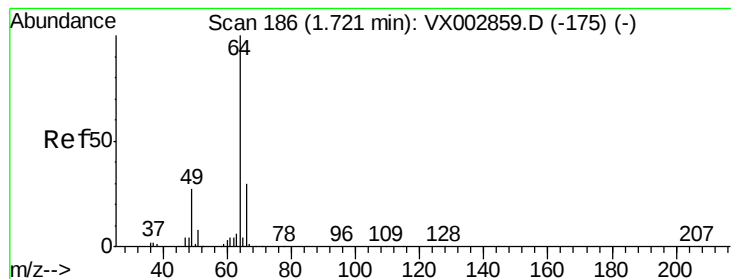
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

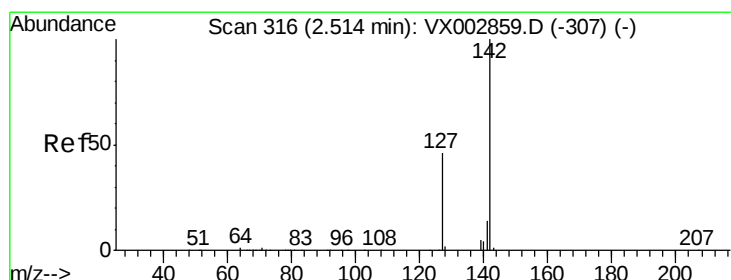
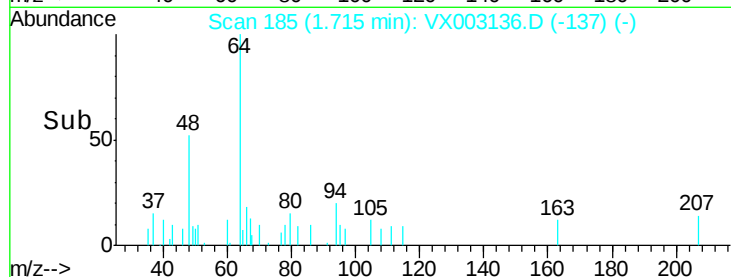
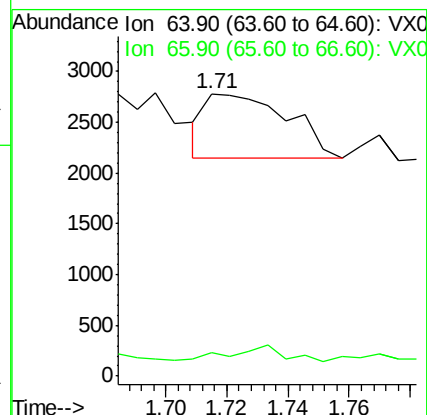
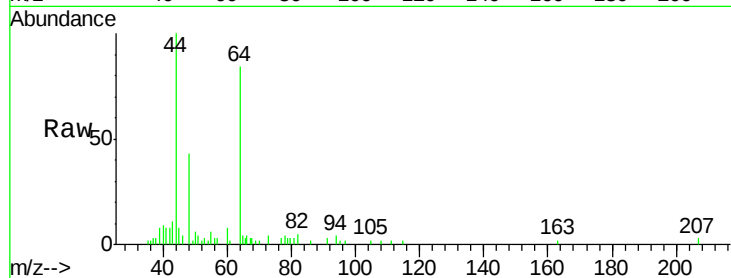
PB110744ZHE#12

Tot Ion: 64 Resp: 1191

Ion Ratio Lower Upper

64 100

66 9.2 25.5 38.3#



#10

Methyl Iodide

Concen: 6.58 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

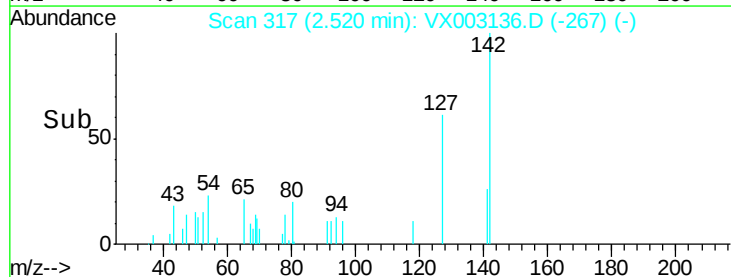
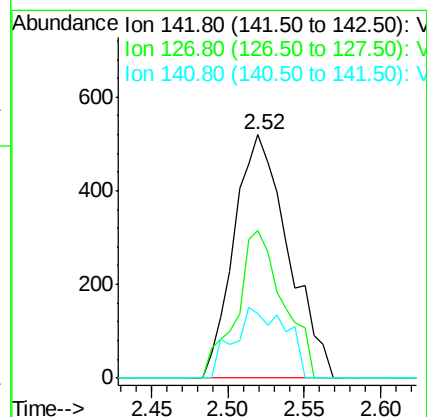
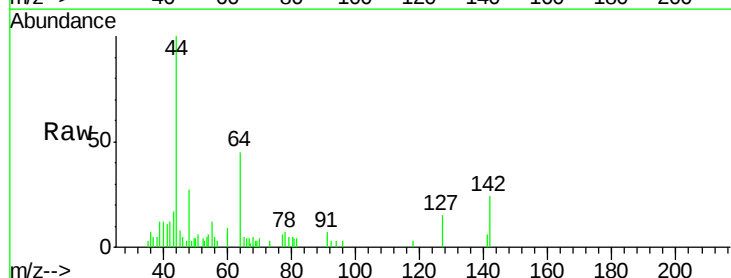
Tgt Ion:142 Resp: 1277

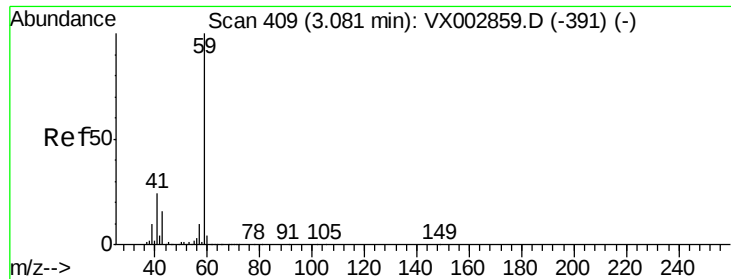
Ion Ratio Lower Upper

142 100

127 52.1 36.6 55.0

141 28.0 11.3 16.9#



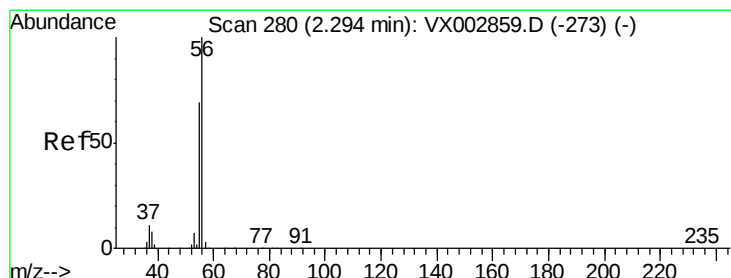
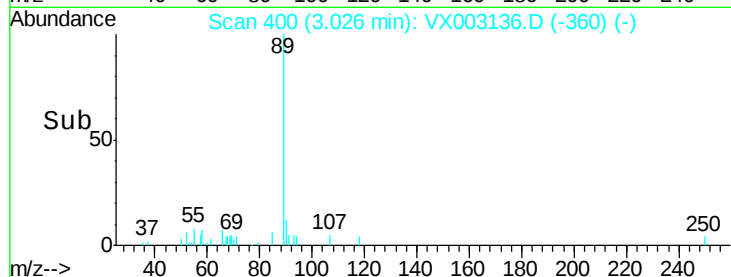
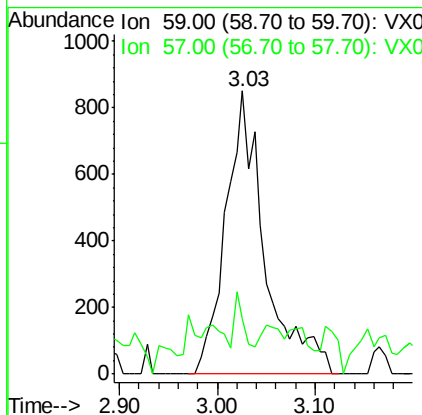
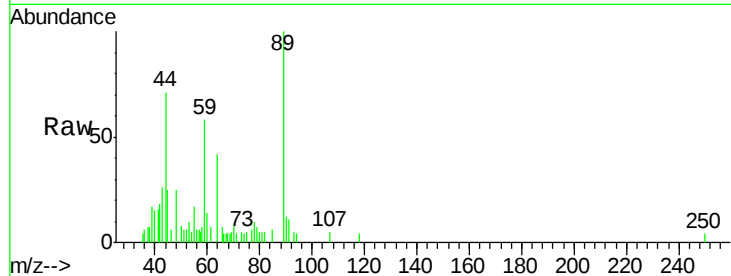


#11

Tert butyl alcohol
 Concen: 3.05 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.05 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110744ZHE#12

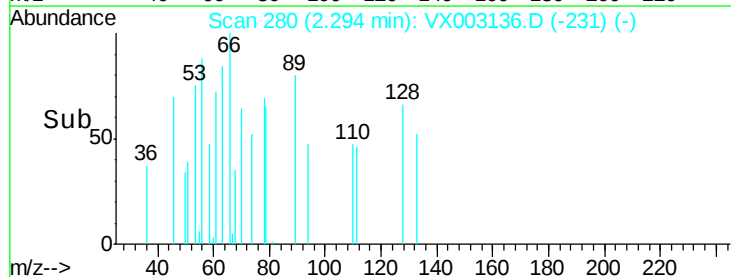
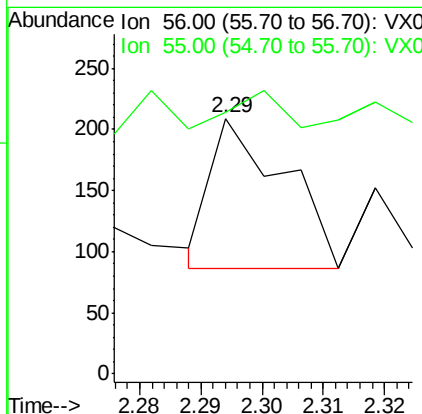
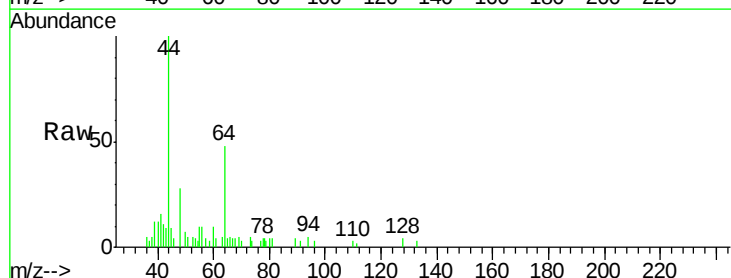
Tot Ion: 59 Resp: 2356
 Ion Ratio Lower Upper
 59 100
 57 4.2 8.2 12.2#

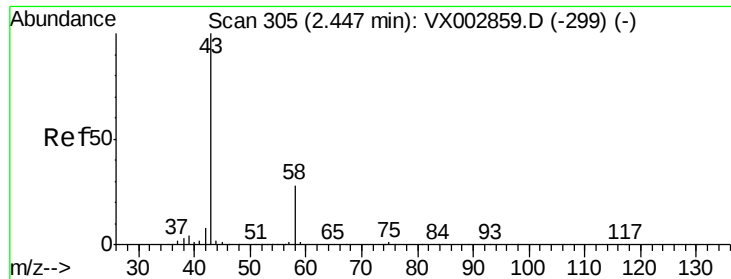


#13

Acrolein
 Concen: 4.46 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

Tgt Ion: 56 Resp: 102
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 8.59 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

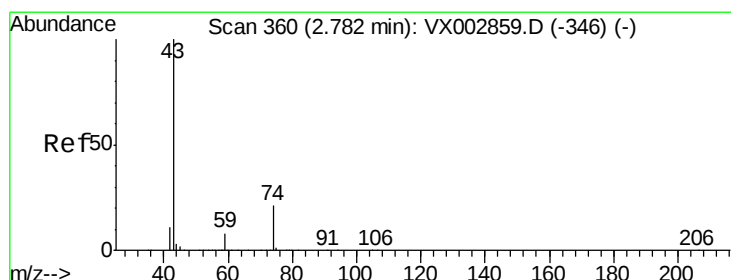
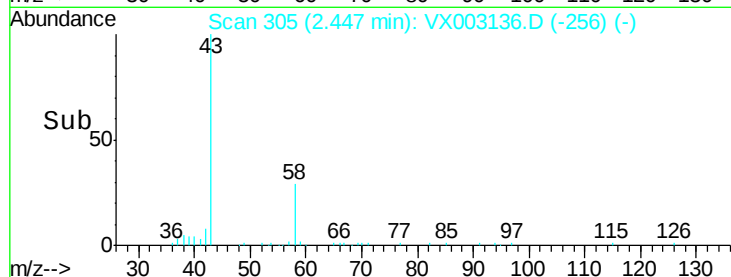
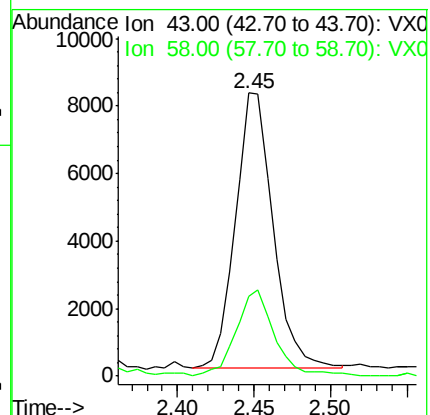
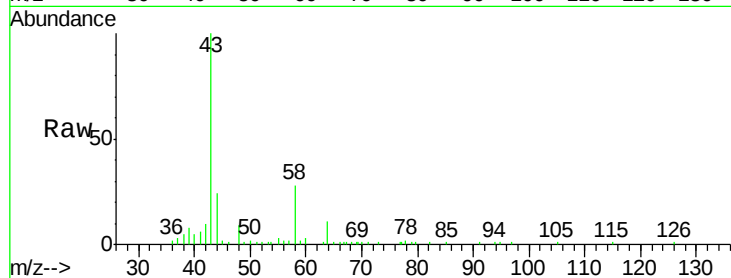
PB110744ZHE#12

Tot Ion: 43 Resp: 13767

Ion Ratio Lower Upper

43 100

58 29.1 22.1 33.1



#18

Methyl Acetate

Concen: 6.03 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003136.D

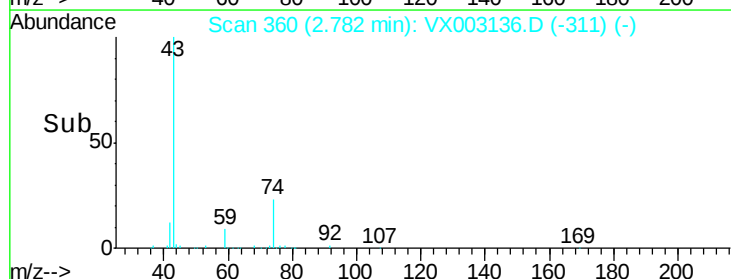
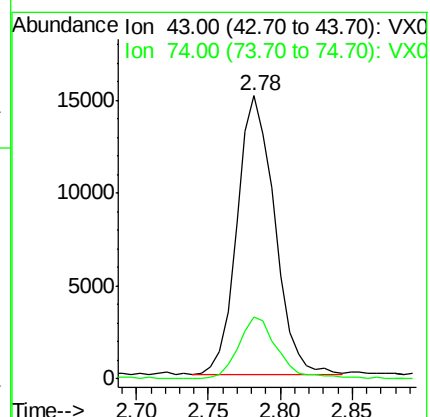
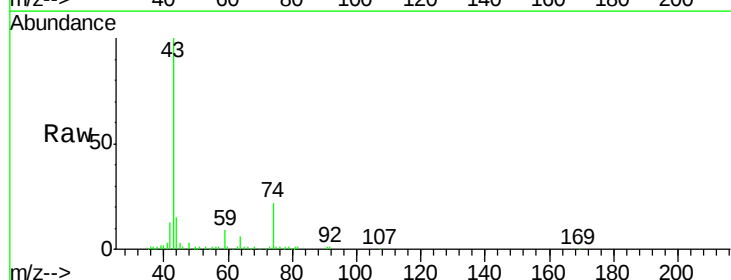
Acq: 02 Jul 2018 19:18

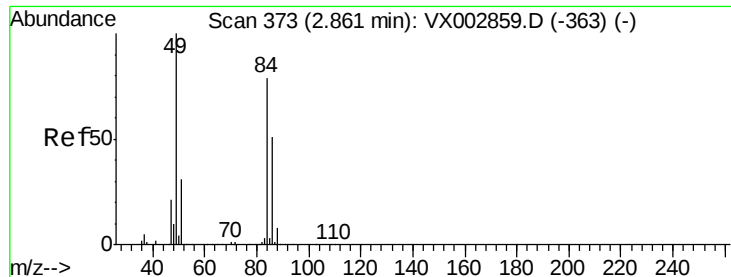
Tgt Ion: 43 Resp: 27017

Ion Ratio Lower Upper

43 100

74 23.3 16.7 25.1





#20

Methylene Chloride

Concen: 1.25 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

PB110744ZHE#12

Tot Ion: 84 Resp: 3905

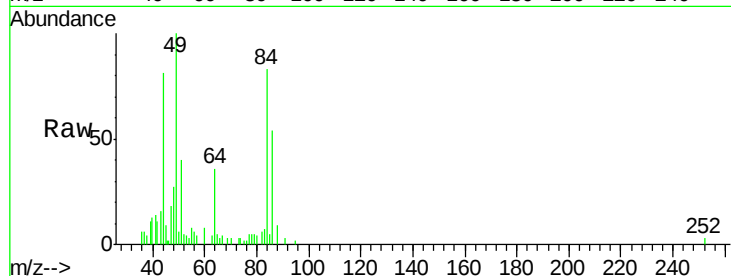
Ion Ratio Lower Upper

84 100

49 116.9 107.8 161.6

51 45.0 32.8 49.2

86 65.4 52.5 78.7

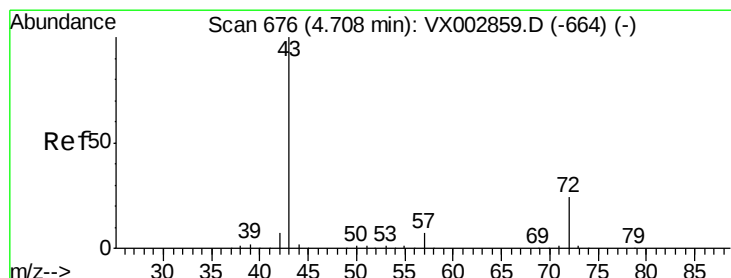
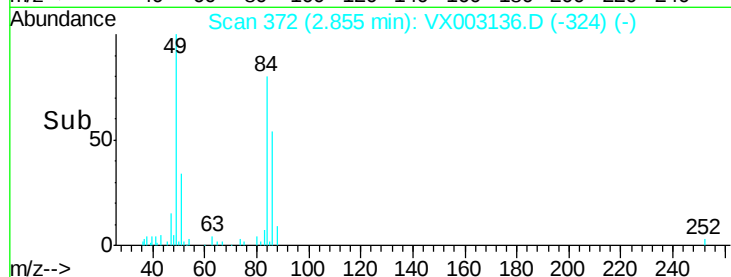
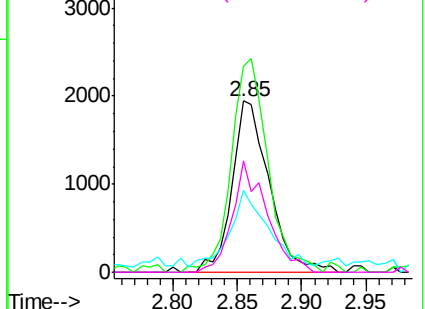


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.52 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003136.D

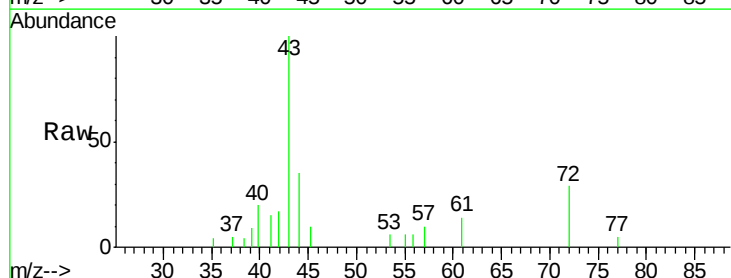
Acq: 02 Jul 2018 19:18

Tgt Ion: 43 Resp: 3614

Ion Ratio Lower Upper

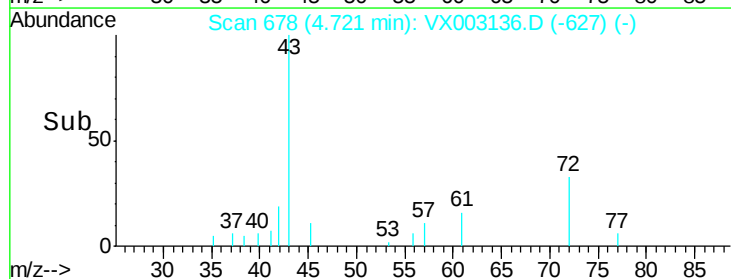
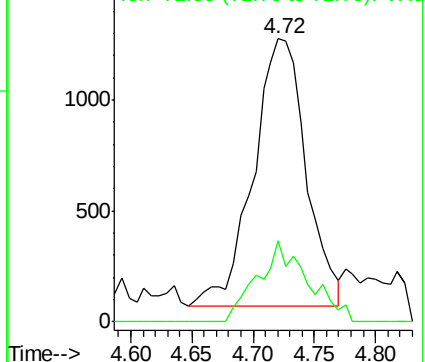
43 100

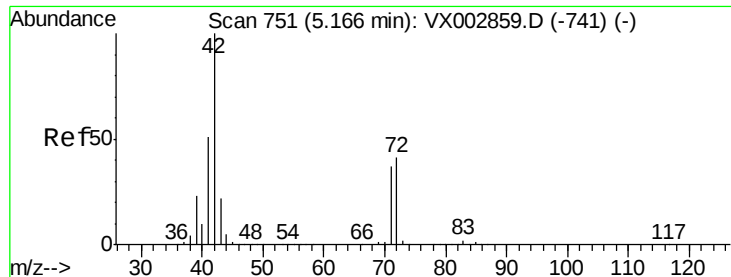
72 30.5 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

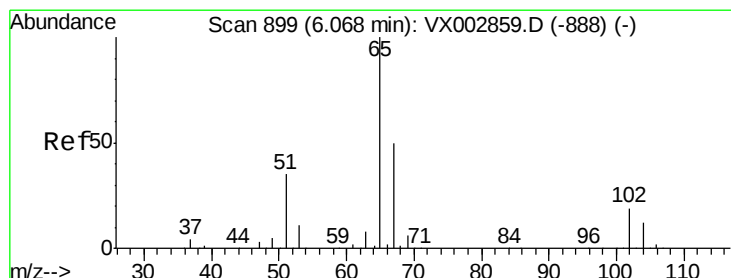
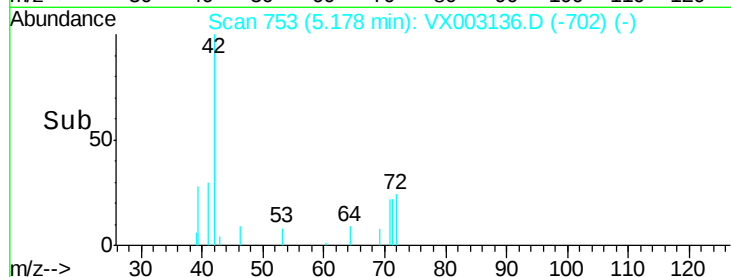
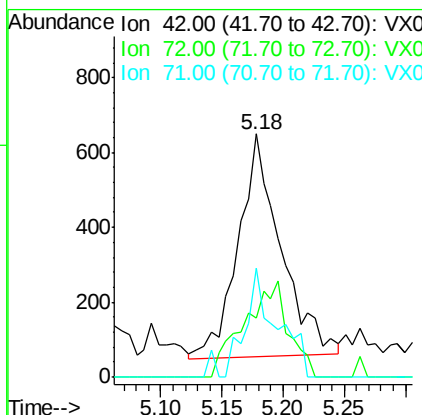
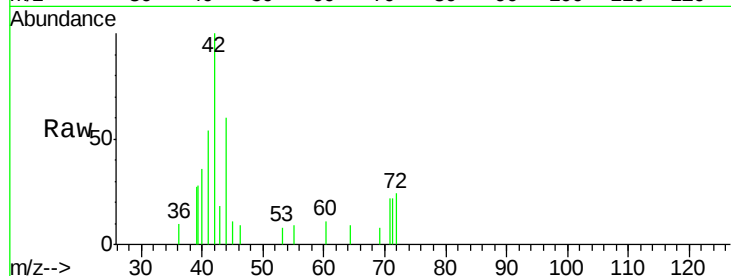




#29
Tetrahydrofuran
Concen: 0.95 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX003136.D
Acq: 02 Jul 2018 19:18

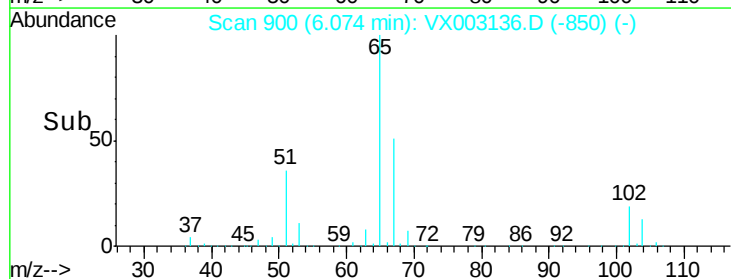
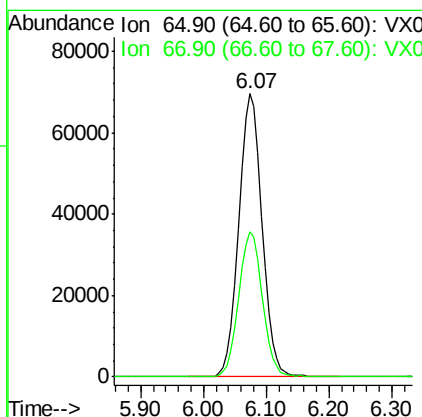
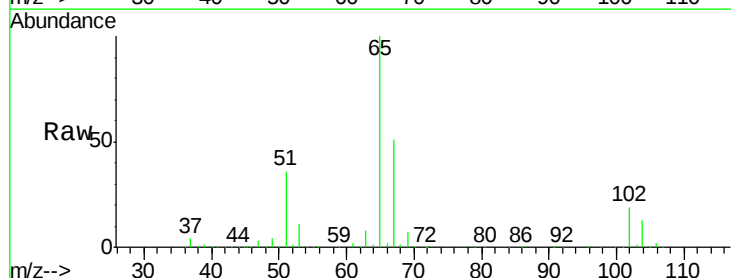
Instrument :
MSVOA_X
ClientSampleId :
PB110744ZHE#12

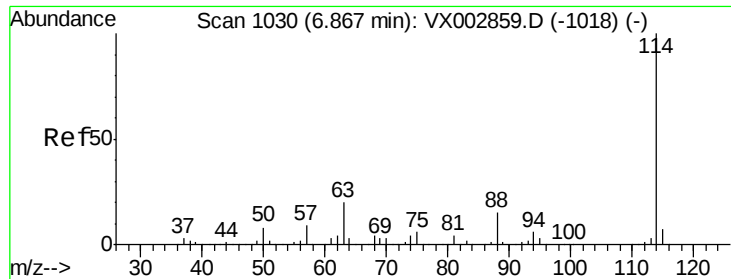
Tot Ion: 42 Resp: 1446
Ion Ratio Lower Upper
42 100
72 44.7 32.0 48.0
71 36.0 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 46.22 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX003136.D
Acq: 02 Jul 2018 19:18

Tgt Ion: 65 Resp: 178961
Ion Ratio Lower Upper
65 100
67 52.0 0.0 102.6

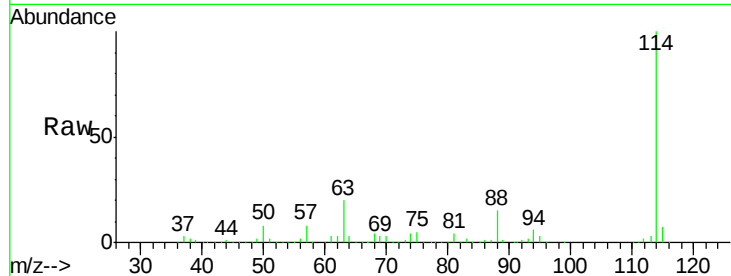




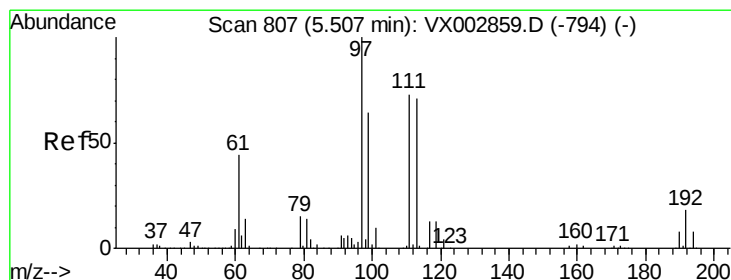
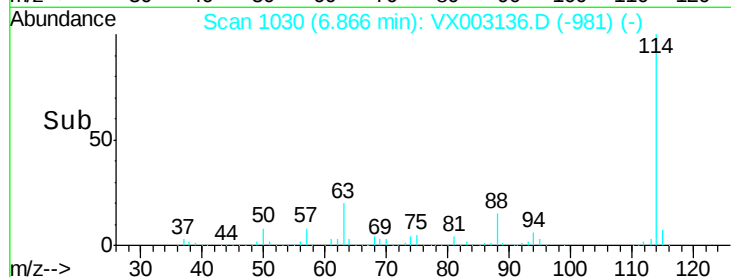
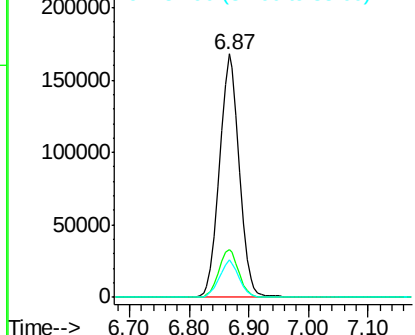
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110744ZHE#12

Tot Ion:114 Resp: 389117
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.3 0.0 30.0

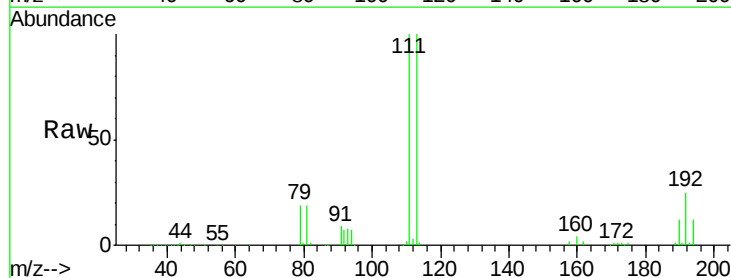


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

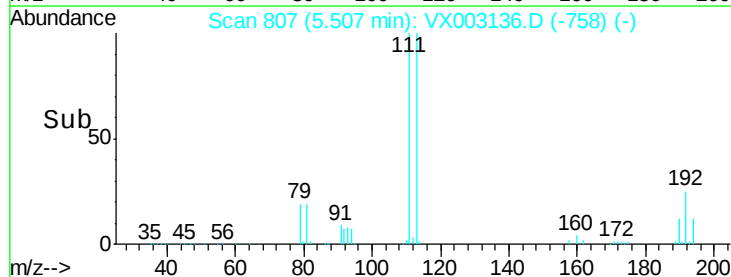
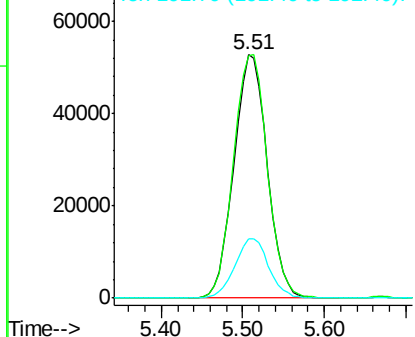


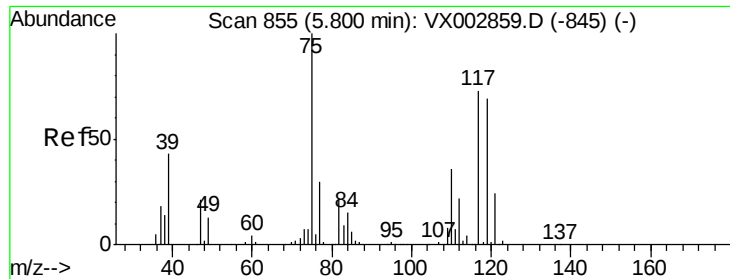
#35
 Dibromofluoromethane
 Concen: 48.40 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

Tgt Ion:113 Resp: 149144
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.4 122.0
 192 24.8 19.1 28.7



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

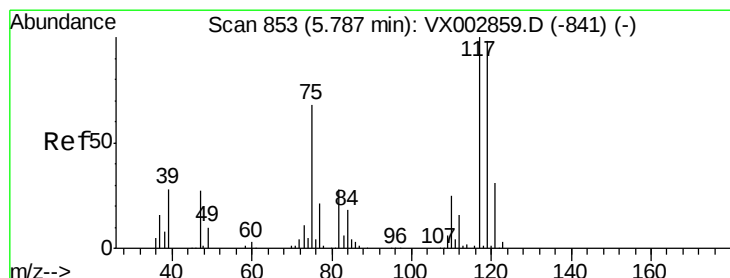
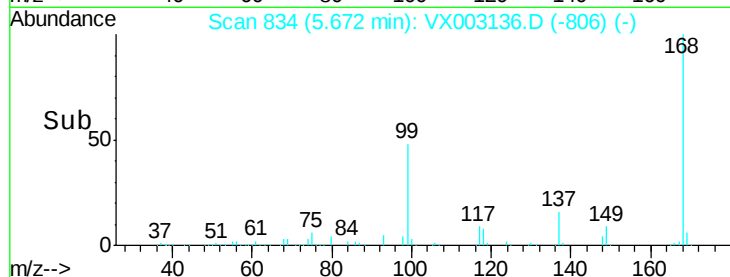
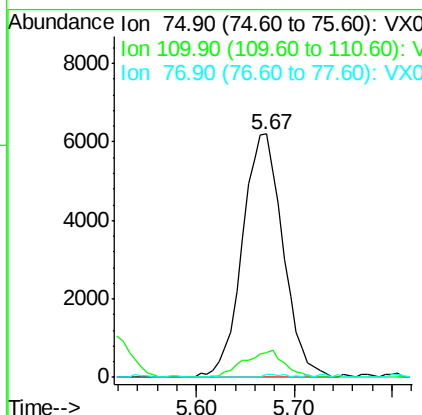
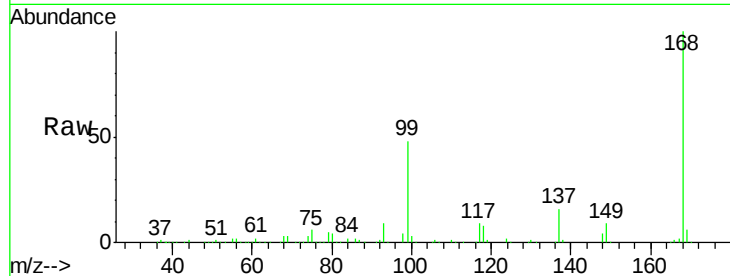




#36
 1,1-Dichloropropene
 Concen: 4.18 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

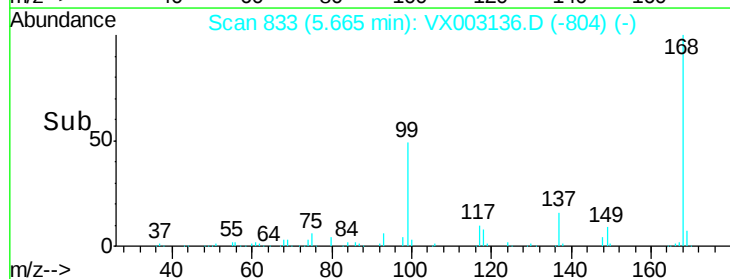
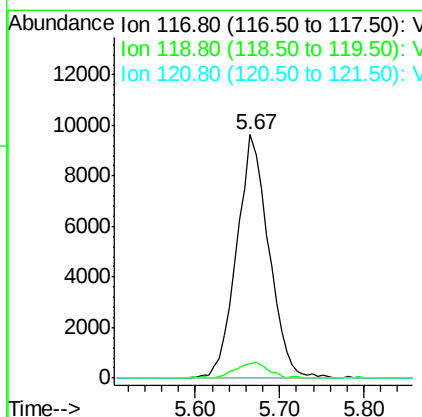
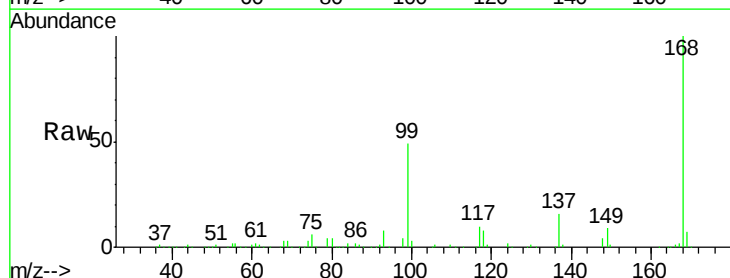
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110744ZHE#12

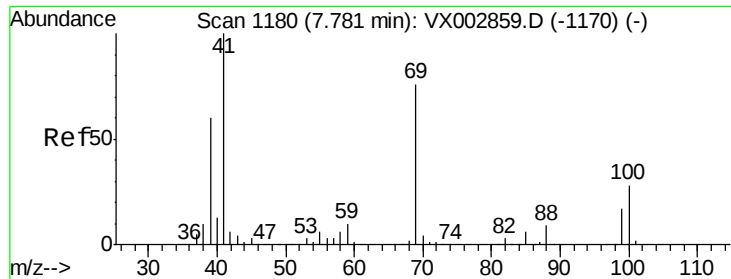
Tot Ion	75	Resp	17856
Ion Ratio	100	Lower	Upper
75	100		
110	10.9	18.1	54.4#
77	0.6	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.29 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

Tgt Ion	117	Resp	24774
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.7	77.4	116.0#
121	0.0	24.4	36.6#

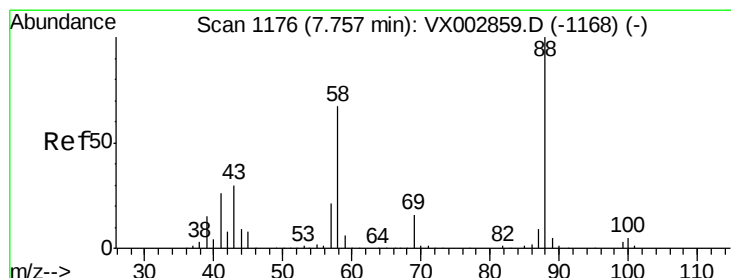
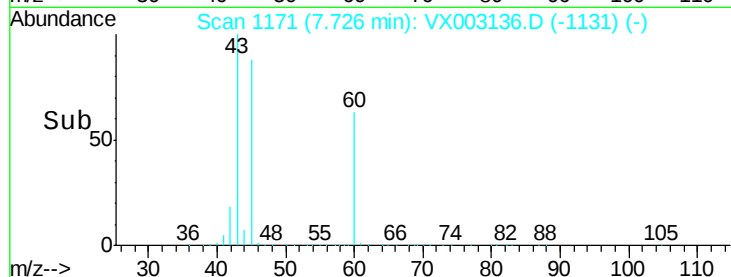
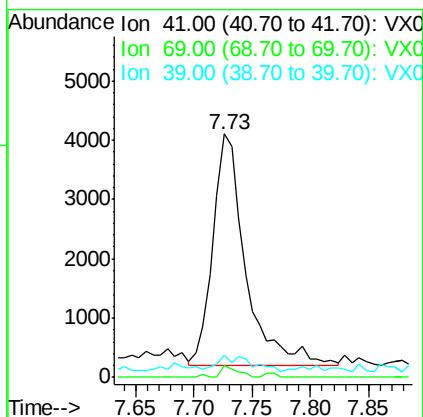
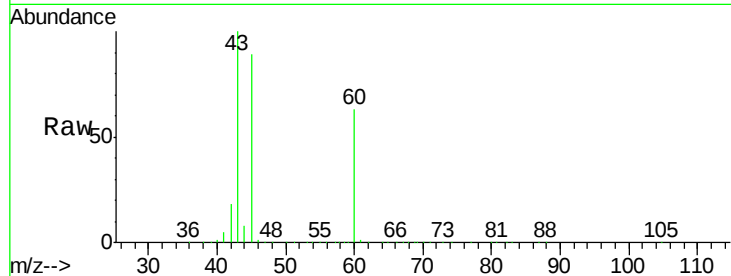




#48
Methyl methacrylate
Concen: 1.90 ug/l
RT: 7.73 min Scan# 1171
Delta R.T. -0.05 min
Lab File: VX003136.D
Acq: 02 Jul 2018 19:18

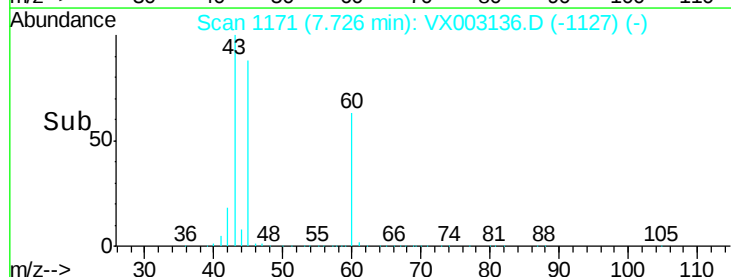
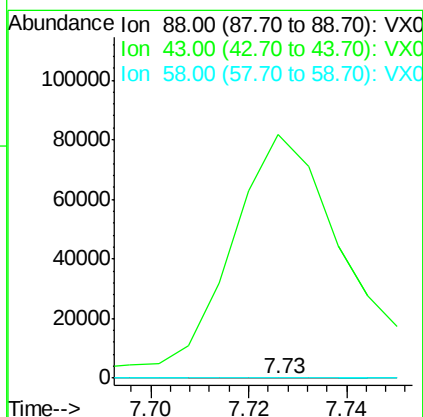
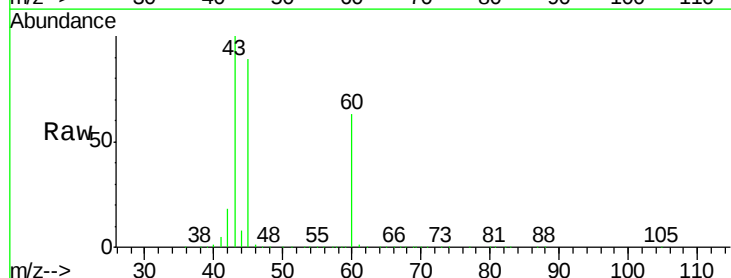
Instrument :
MSVOA_X
ClientSampleId :
PB110744ZHE#12

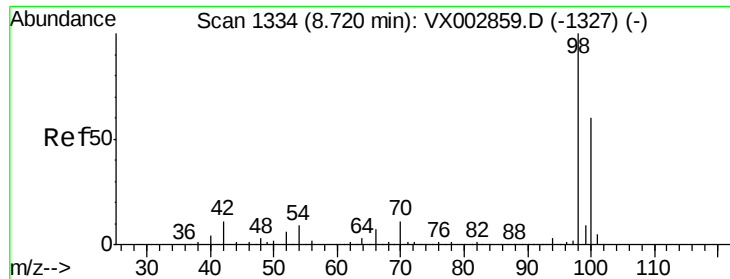
Tot Ion: 41 Resp: 7550
Ion Ratio Lower Upper
41 100
69 2.7 59.1 88.7#
39 7.2 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.61 ug/l
RT: 7.73 min Scan# 1171
Delta R.T. -0.03 min
Lab File: VX003136.D
Acq: 02 Jul 2018 19:18

Tgt Ion: 88 Resp: 47
Ion Ratio Lower Upper
88 100
43 309468.1 29.8 44.6#
58 353.2 57.1 85.7#

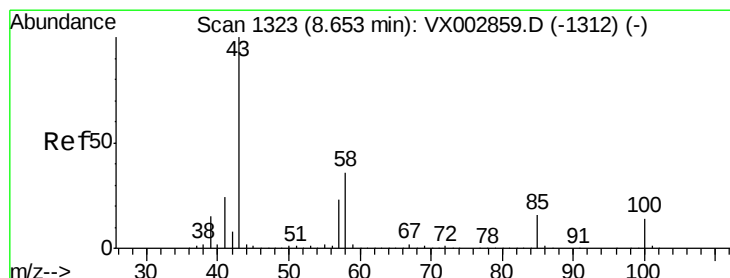
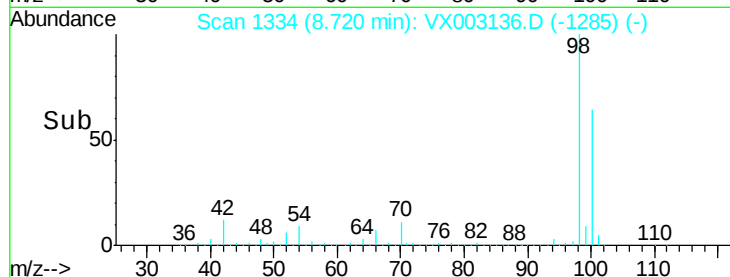
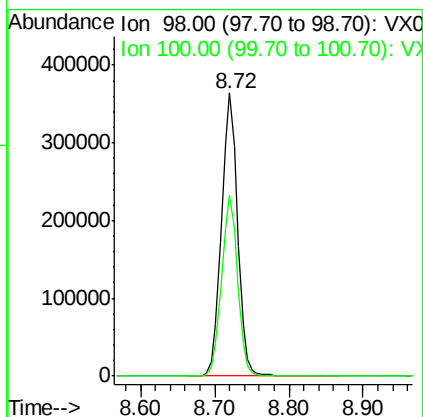
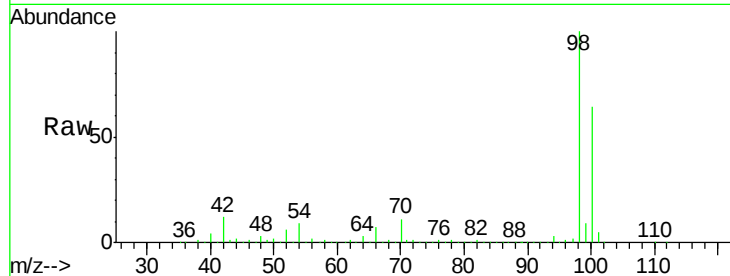




#50
Toluene-d8
Concen: 48.63 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003136.D
Acq: 02 Jul 2018 19:18

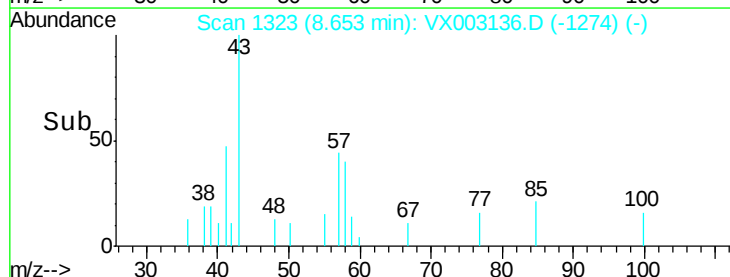
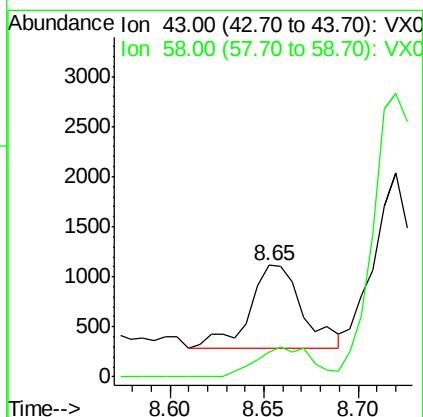
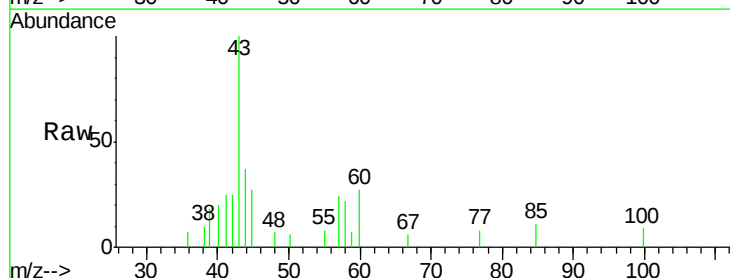
Instrument :
MSVOA_X
ClientSampleId :
PB110744ZHE#12

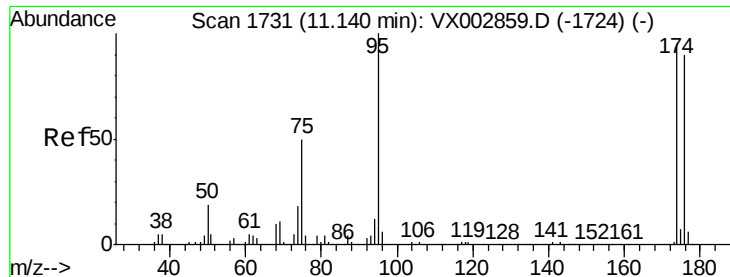
Tot Ion: 98 Resp: 547229
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.34 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX003136.D
Acq: 02 Jul 2018 19:18

Tgt Ion: 43 Resp: 1621
Ion Ratio Lower Upper
43 100
58 37.4 28.6 42.8





#62

4-Bromofluorobenzene

Concen: 45.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

PB110744ZHE#12

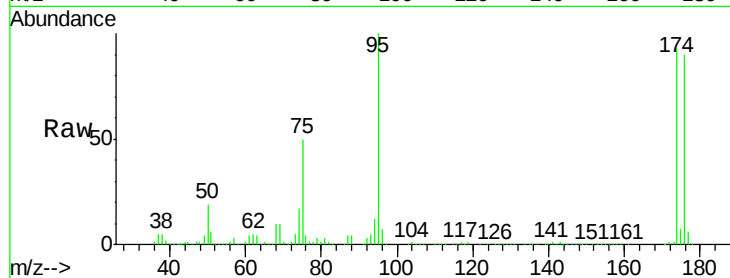
Tot Ion: 95 Resp: 196138

Ion Ratio Lower Upper

95 100

174 98.3 0.0 187.4

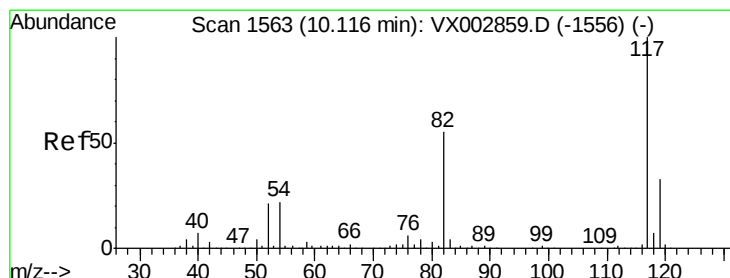
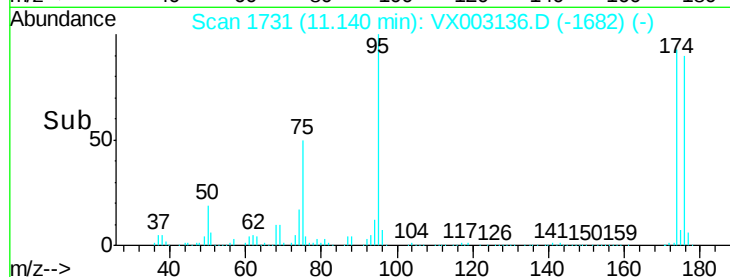
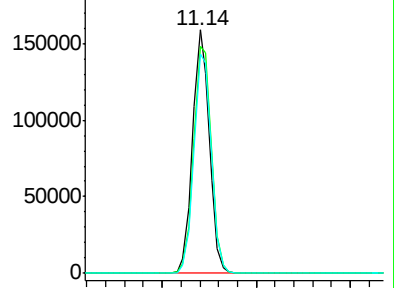
176 93.6 0.0 181.0



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

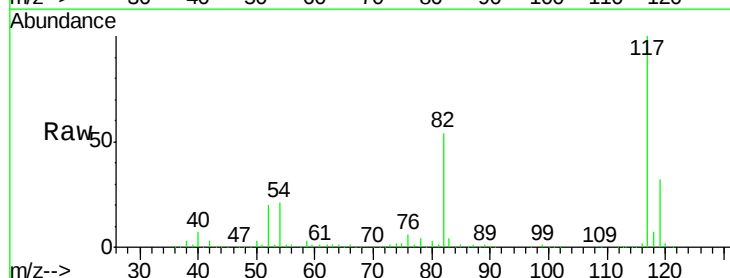
Tgt Ion: 117 Resp: 361350

Ion Ratio Lower Upper

117 100

82 53.9 45.0 67.4

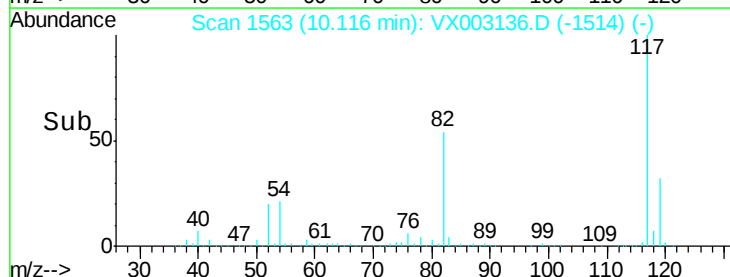
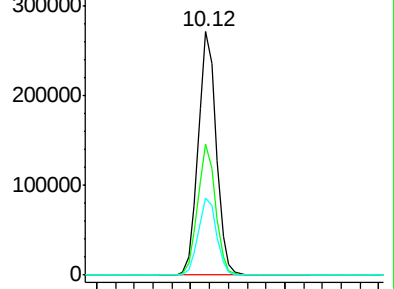
119 31.9 25.8 38.6

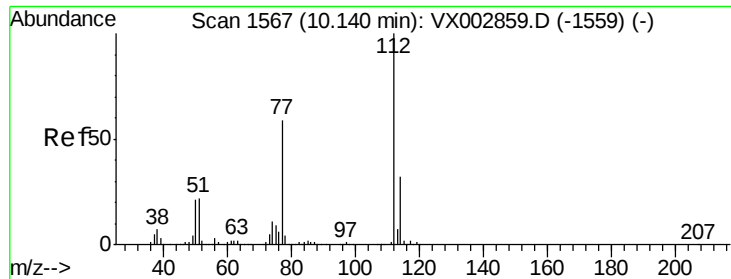


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 0.26 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

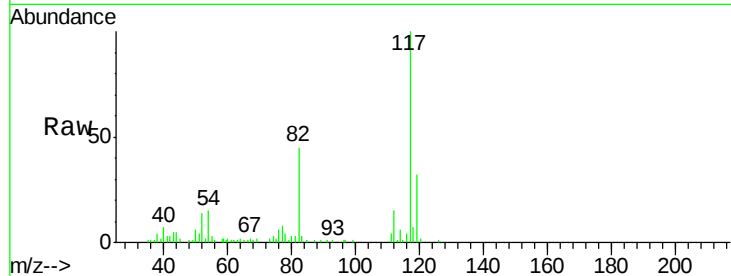
PB110744ZHE#12

Tot Ion:112 Resp: 2353

Ion Ratio Lower Upper

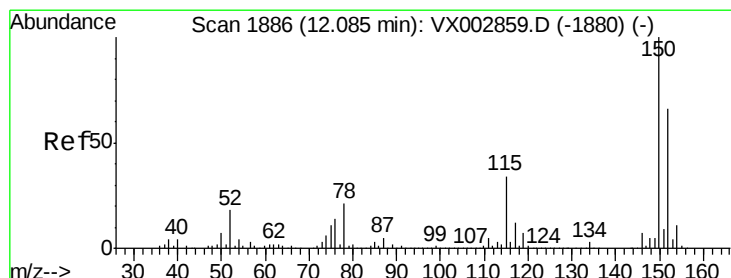
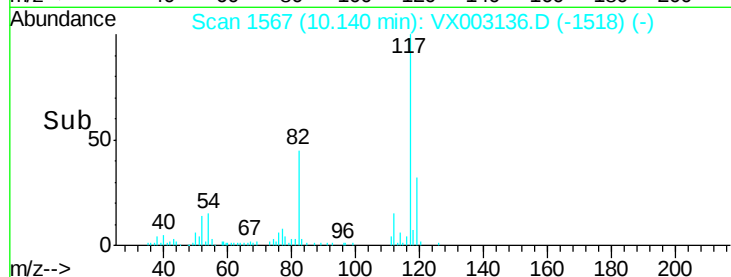
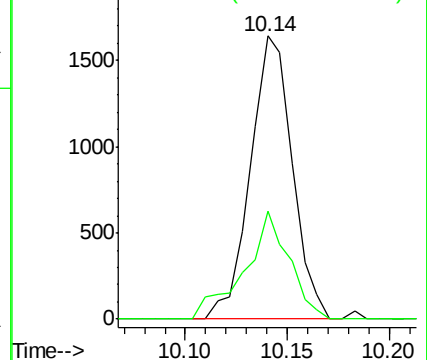
112 100

114 38.2 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: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

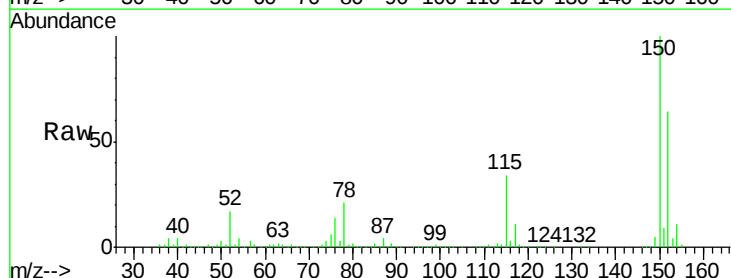
Tgt Ion:152 Resp: 209327

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

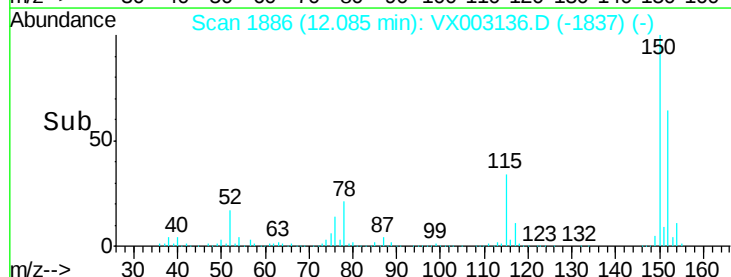
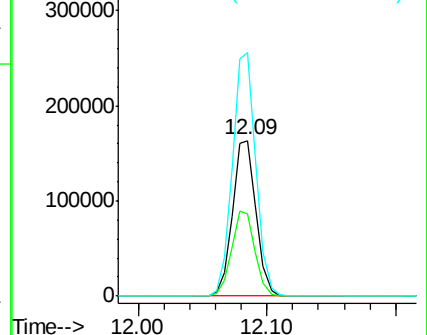
150 155.9 0.0 347.2

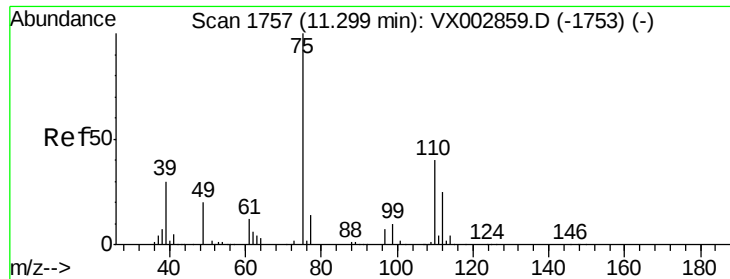


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

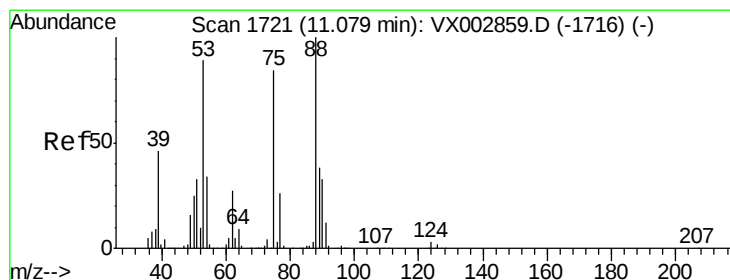
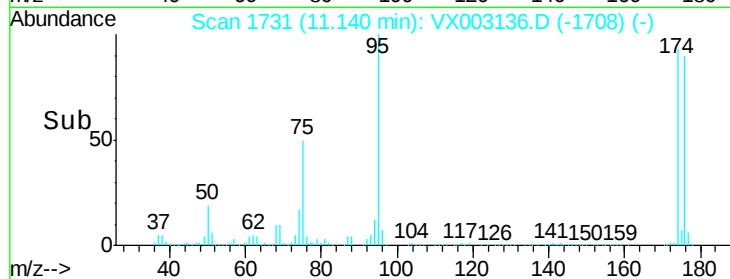
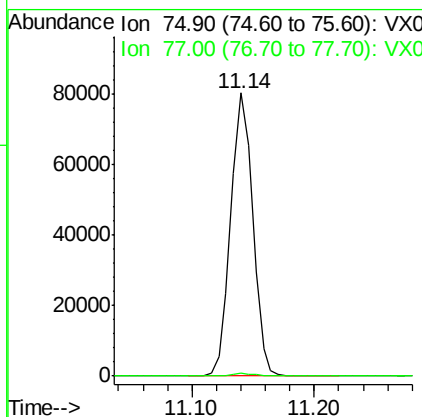
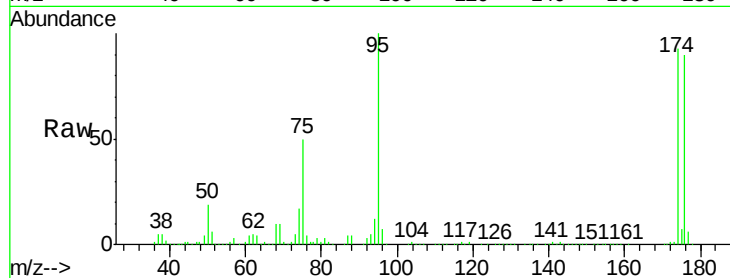




#76
 1,2,3-Trichloropropane
 Concen: 26.36 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

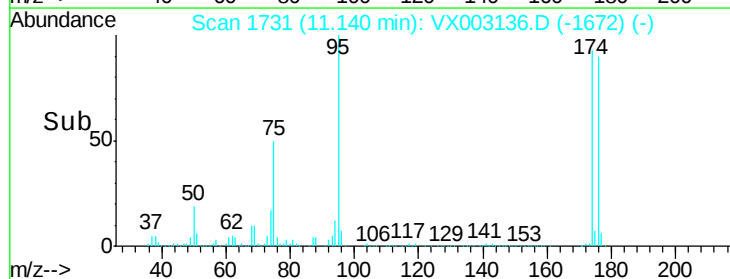
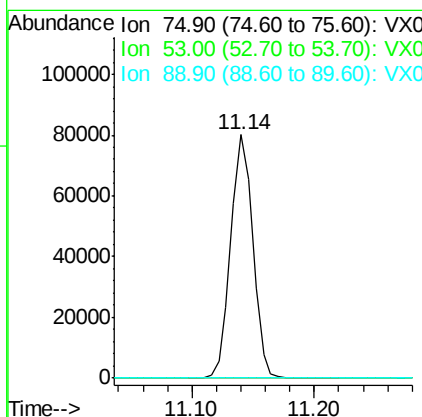
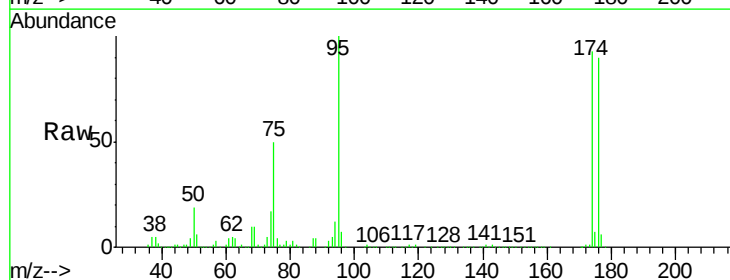
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110744ZHE#12

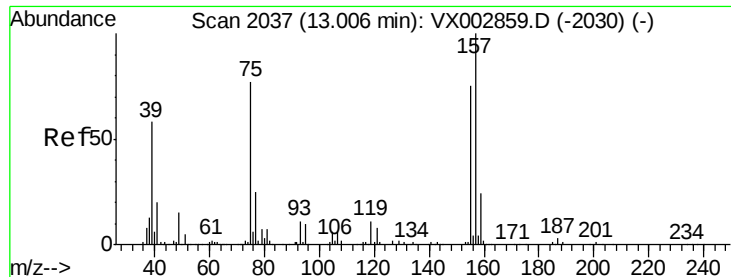
Tot Ion: 75 Resp: 99966
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.71 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003136.D
 Acq: 02 Jul 2018 19:18

Tgt Ion: 75 Resp: 99966
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.44 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX003136.D

Acq: 02 Jul 2018 19:18

Instrument :

MSVOA_X

ClientSampleId :

PB110744ZHE#12

Tot Ion: 75 Resp: 428

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#

