

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071118\
 Data File : VX003334.D
 Acq On : 11 Jul 2018 21:42
 Operator : JC/MD
 Sample : PB110983ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#08

Quant Time: Jul 12 00:58:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	282580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	426266	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353750	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	191753	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	181979	40.92	ug/l	0.00
Spiked Amount			Recovery	=	81.84%	
35) Dibromofluoromethane	5.51	113	159233	34.77	ug/l	0.00
Spiked Amount			Recovery	=	69.54%	
50) Toluene-d8	8.72	98	596514	36.67	ug/l	0.00
Spiked Amount			Recovery	=	73.34%	
62) 4-Bromofluorobenzene	11.14	95	188559	31.37	ug/l	0.00
Spiked Amount			Recovery	=	62.74%	

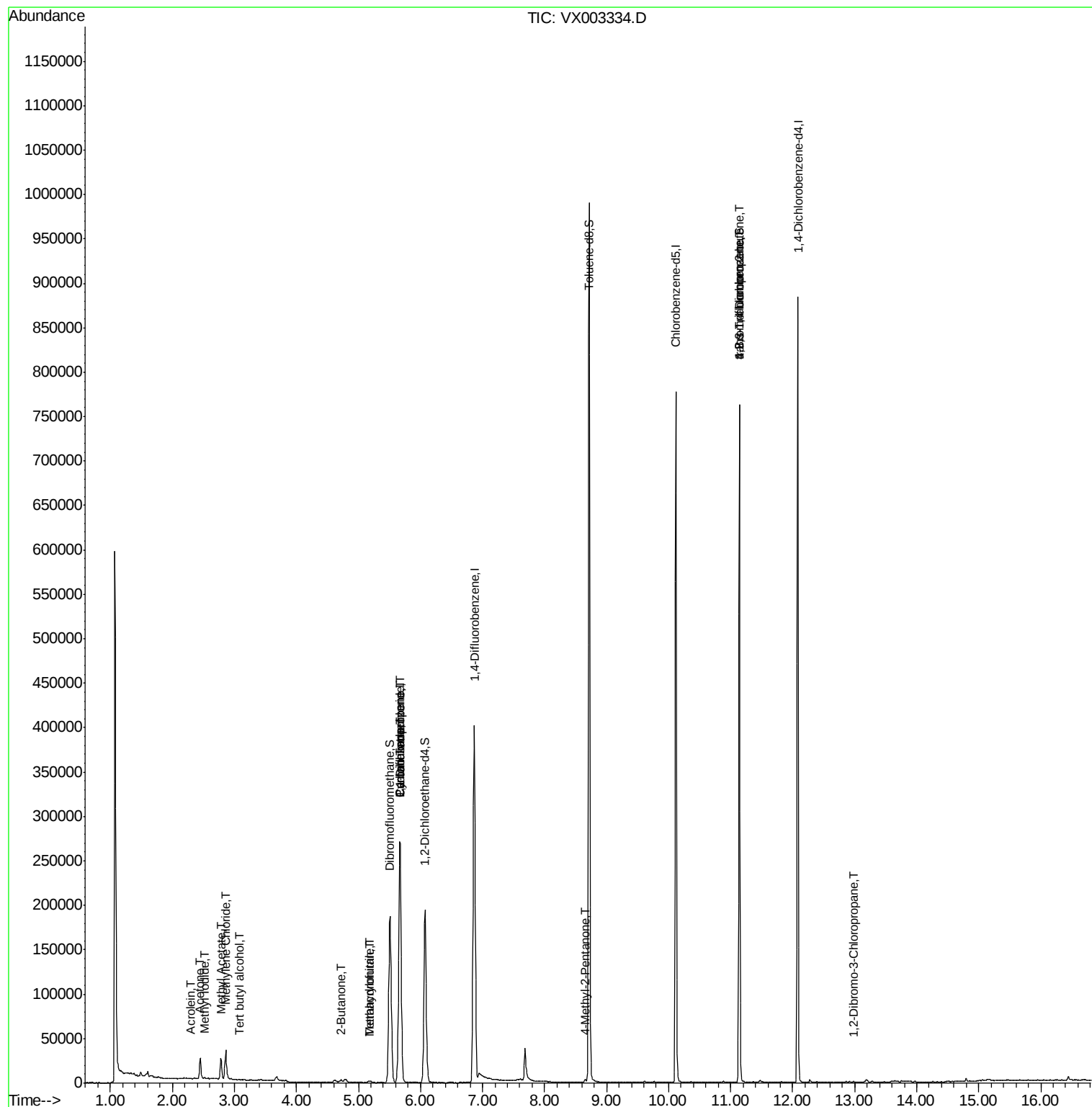
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1625	Below Cal		84
10) Methyl Iodide	2.53	142	1596	6.02	ug/l #	95
11) Tert butyl alcohol	3.08	59	382	0.47	ug/l	95
13) Acrolein	2.31	56	193	0.30	ug/l #	80
16) Acetone	2.45	43	25049	15.87	ug/l #	86
18) Methyl Acetate	2.78	43	28990	6.51	ug/l	96
20) Methylene Chloride	2.86	84	15469	4.13	ug/l	94
25) 2-Butanone	4.72	43	4914	1.76	ug/l #	88
29) Tetrahydrofuran	5.18	42	1997	1.10	ug/l	96
31) Cyclohexane	5.67	56	4707	0.81	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18261	3.03	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25370	3.84	ug/l #	16
41) Methacrylonitrile	5.18	41	1272	0.35	ug/l #	54
51) 4-Methyl-2-Pentanone	8.65	43	1688	0.26	ug/l #	86
76) 1,2,3-Trichloropropane	11.14	75	92954	22.43	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92954	73.31	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	248	0.25	ug/l #	1

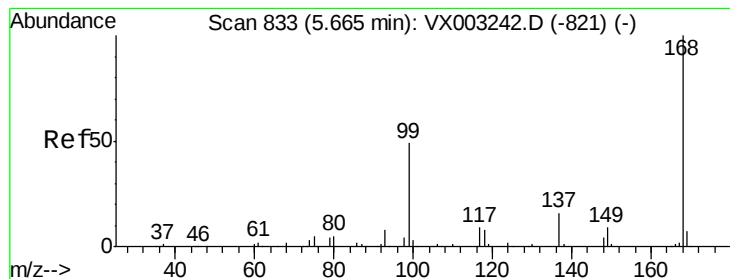
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003334.D

Acq: 11 Jul 2018 21:42

Instrument :

MSVOA_X

ClientSampleId :

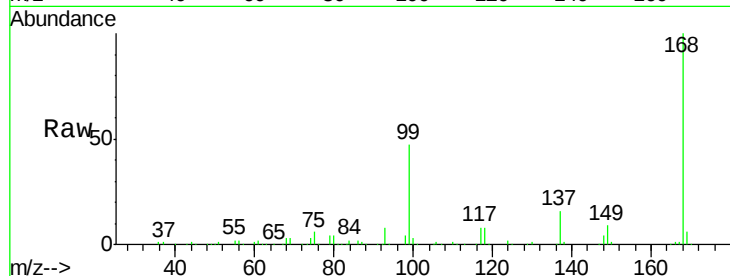
PB110983ZHE#08

Tot Ion:168 Resp: 282580

Ion Ratio Lower Upper

168 100

99 47.1 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

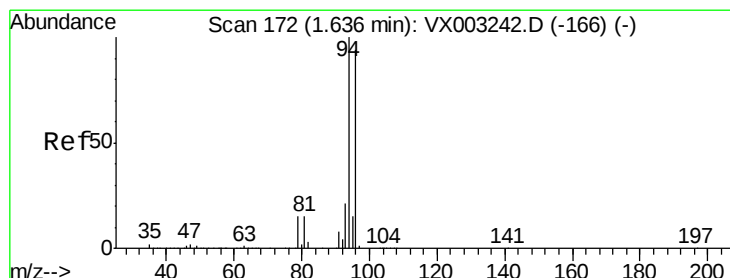
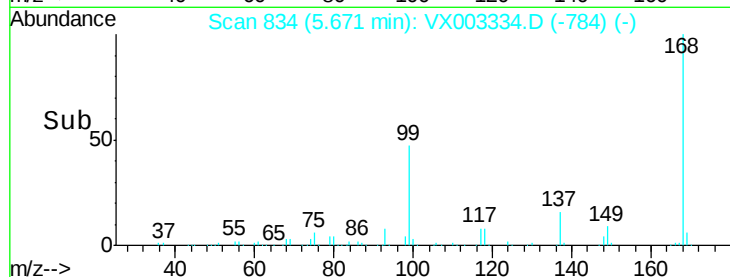
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003334.D

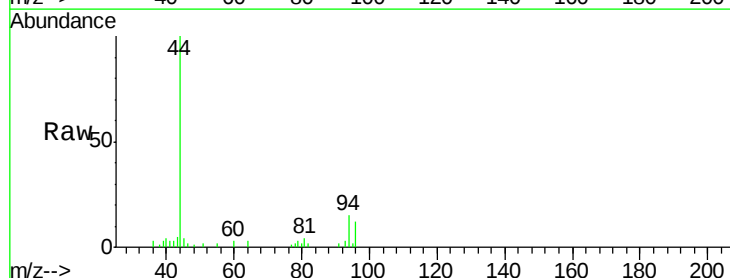
Acq: 11 Jul 2018 21:42

Tgt Ion: 94 Resp: 1625

Ion Ratio Lower Upper

94 100

96 78.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

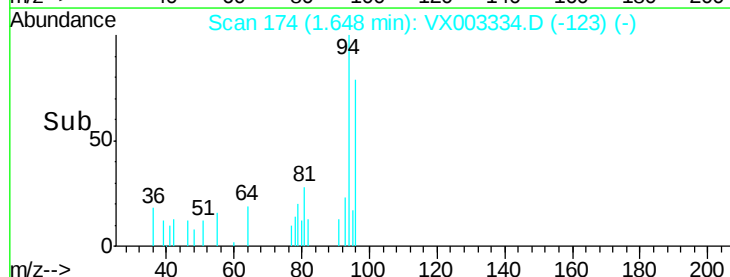
600

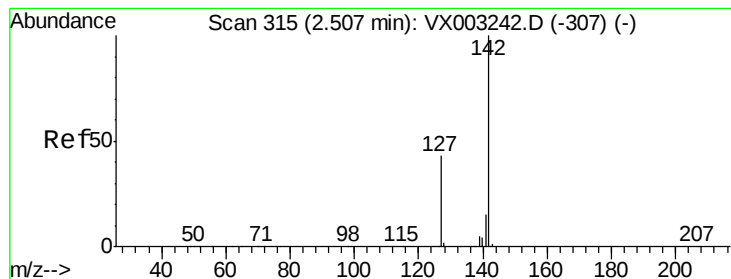
400

200

0

Time--> 1.60 1.65 1.70





#10

Methyl Iodide

Concen: 6.02 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX003334.D

Acq: 11 Jul 2018 21:42

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#08

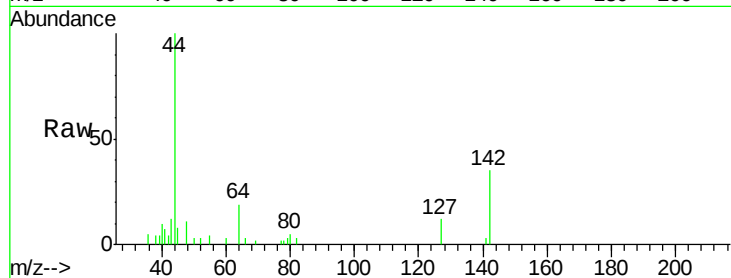
Tot Ion:142 Resp: 1596

Ion Ratio Lower Upper

142 100

127 43.3 36.6 55.0

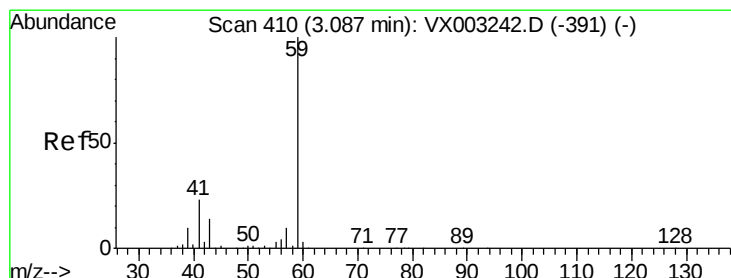
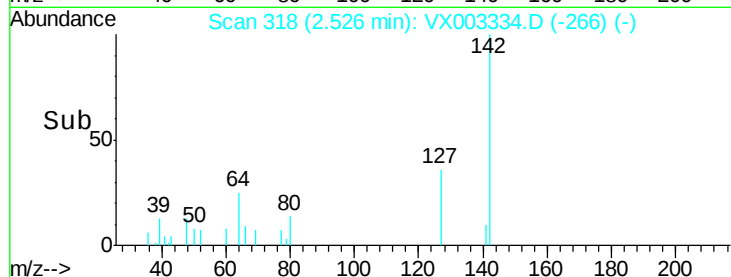
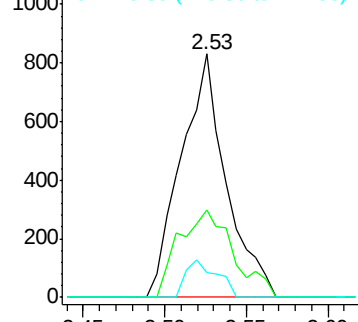
141 10.5 11.3 16.9#



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: 0.47 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.01 min

Lab File: VX003334.D

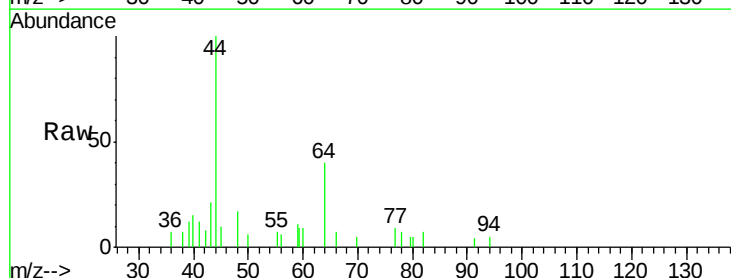
Acq: 11 Jul 2018 21:42

Tgt Ion: 59 Resp: 382

Ion Ratio Lower Upper

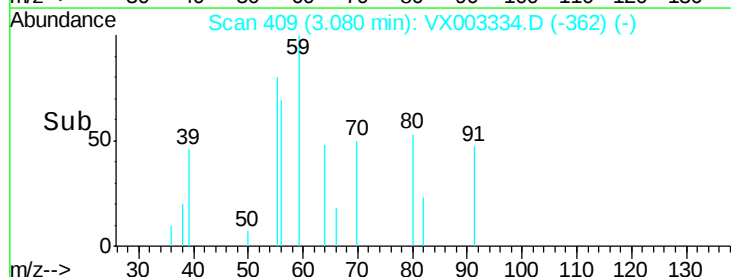
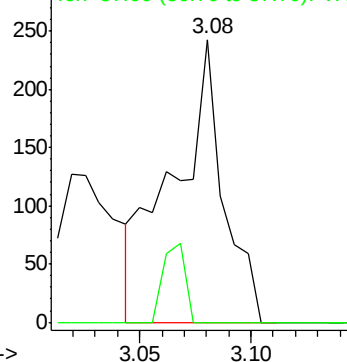
59 100

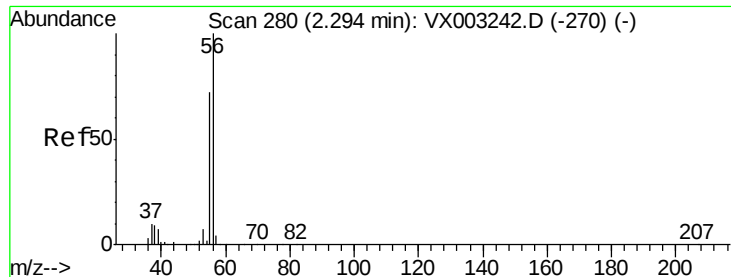
57 12.0 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.30 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003334.D

Acq: 11 Jul 2018 21:42

Instrument :

MSVOA_X

ClientSampleId :

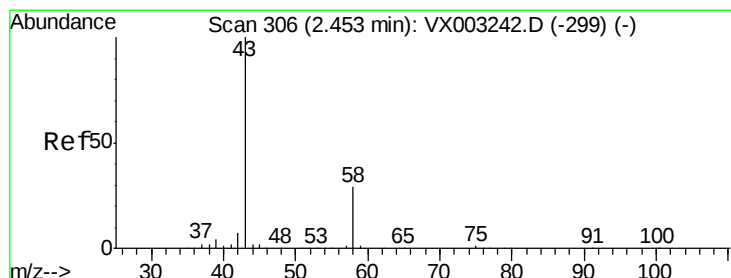
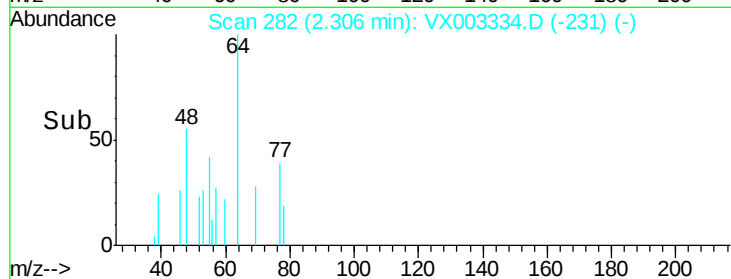
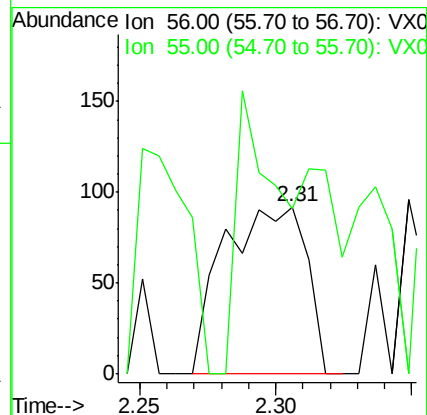
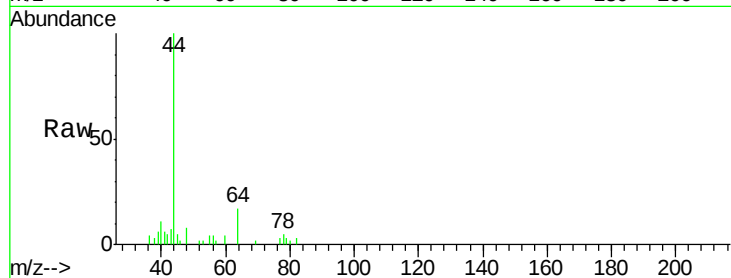
PB110983ZHE#08

Tot Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 87.6 57.0 85.4#



#16

Acetone

Concen: 15.87 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX003334.D

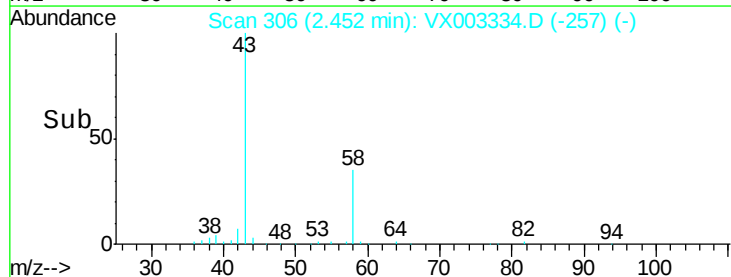
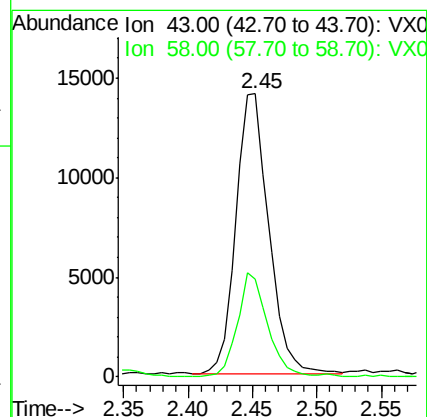
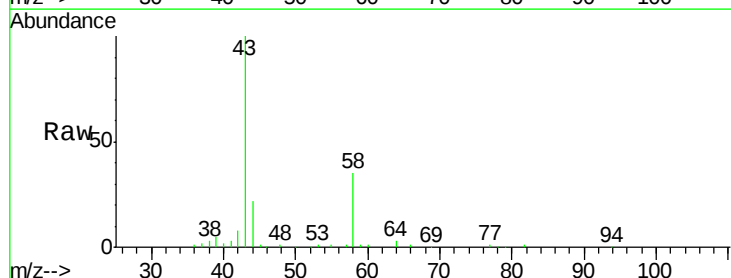
Acq: 11 Jul 2018 21:42

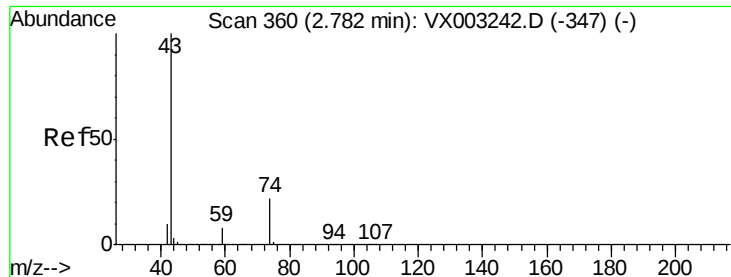
Tgt Ion: 43 Resp: 25049

Ion Ratio Lower Upper

43 100

58 35.1 22.1 33.1#

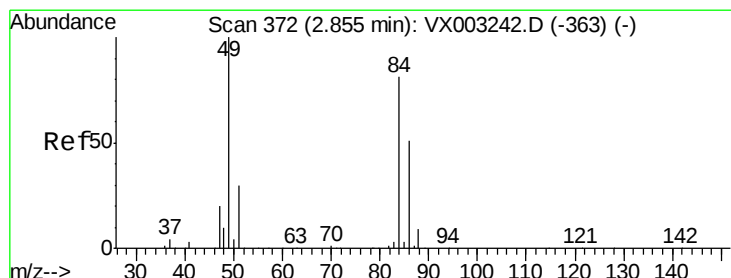
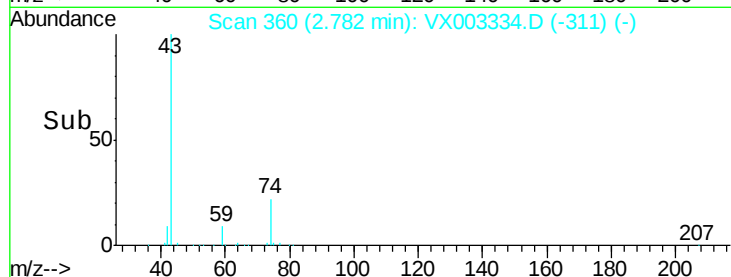
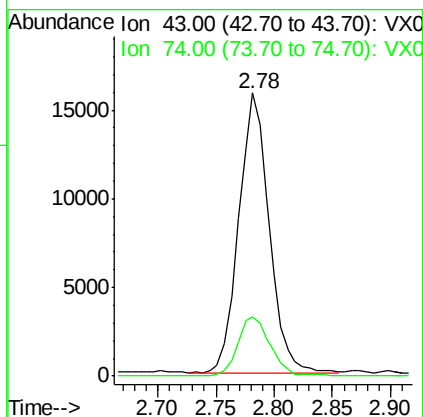
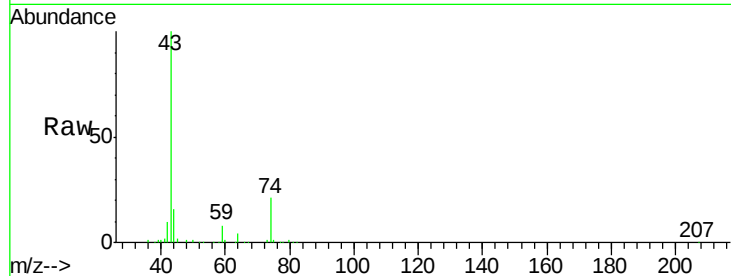




#18
Methyl Acetate
Concen: 6.51 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

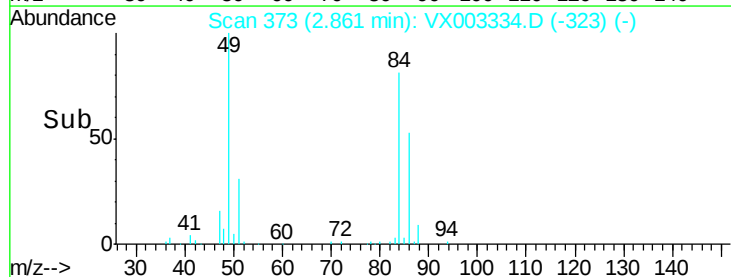
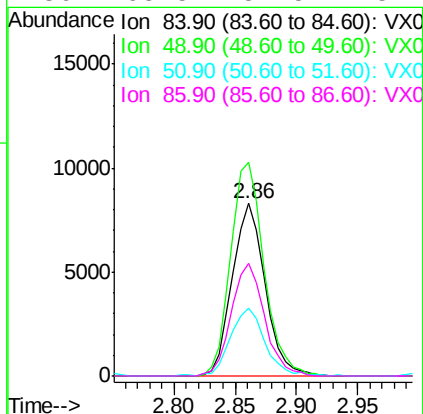
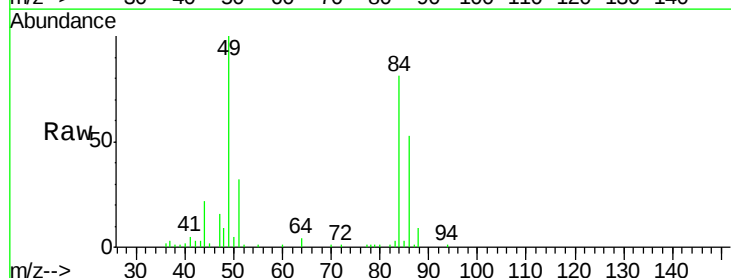
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#08

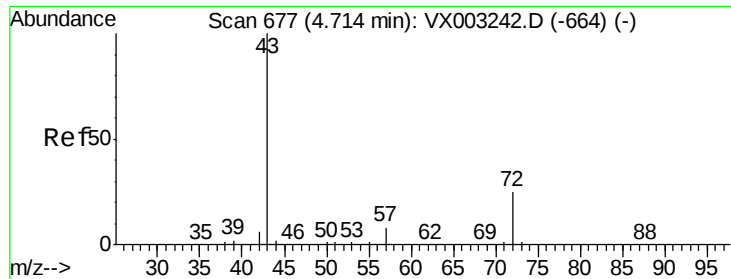
Tot Ion: 43 Resp: 28990
Ion Ratio Lower Upper
43 100
74 22.6 16.7 25.1



#20
Methylene Chloride
Concen: 4.13 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

Tgt Ion: 84 Resp: 15469
Ion Ratio Lower Upper
84 100
49 123.7 107.8 161.6
51 38.6 32.8 49.2
86 65.5 52.5 78.7

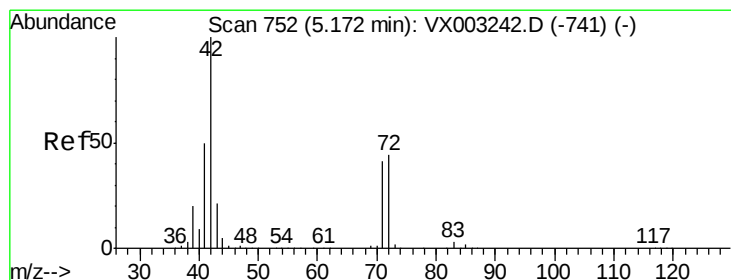
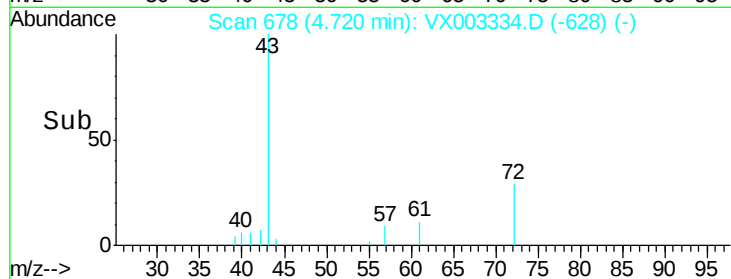
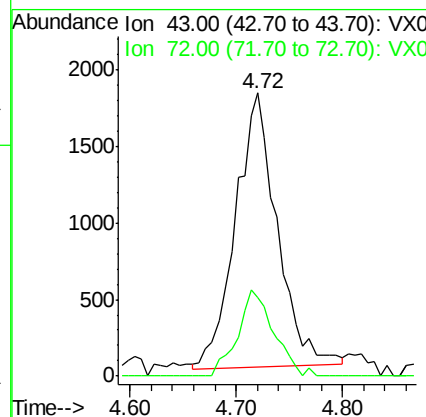
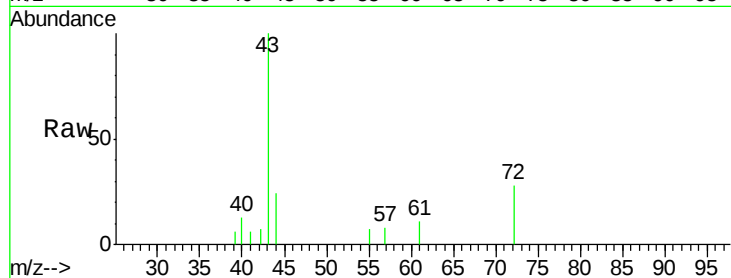




#25
2-Butanone
Concen: 1.76 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

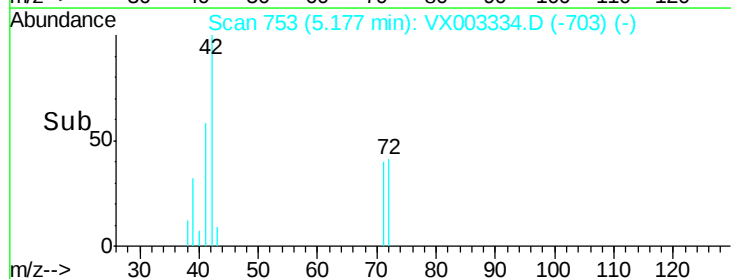
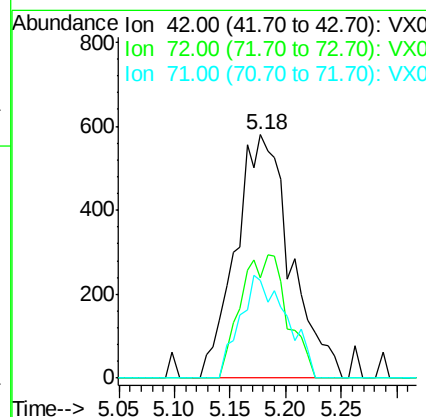
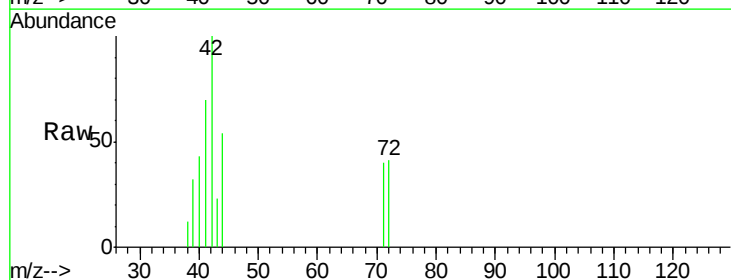
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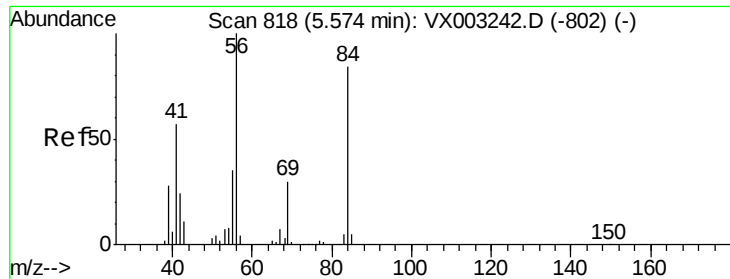
Tot Ion: 43 Resp: 4914
Ion Ratio Lower Upper
43 100
72 28.8 18.5 27.7#



#29
Tetrahydrofuran
Concen: 1.10 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

Tgt Ion: 42 Resp: 1997
Ion Ratio Lower Upper
42 100
72 43.1 32.0 48.0
71 35.7 30.1 45.1

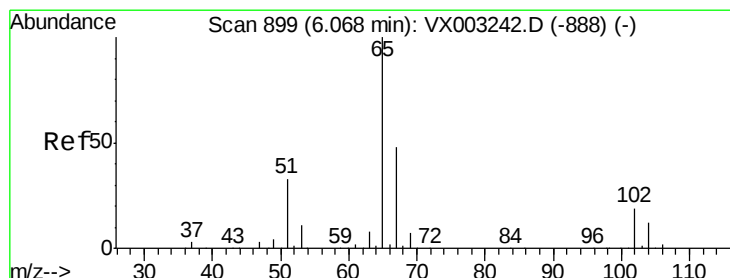
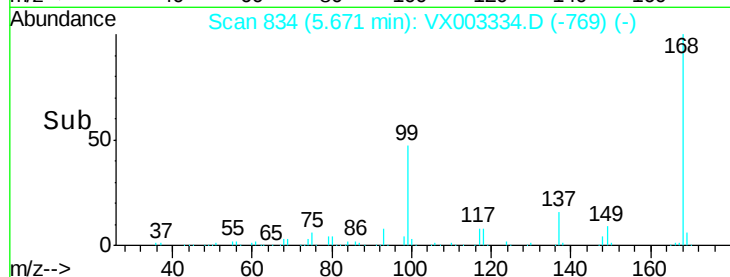
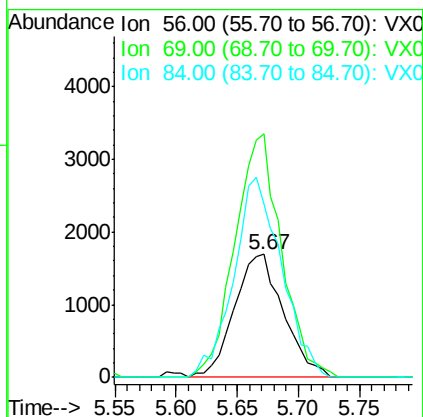
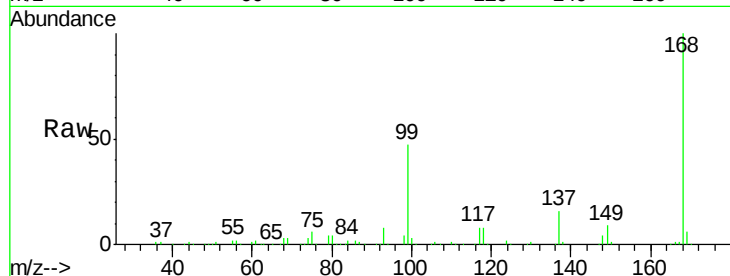




#31
Cyclohexane
Concen: 0.81 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.10 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

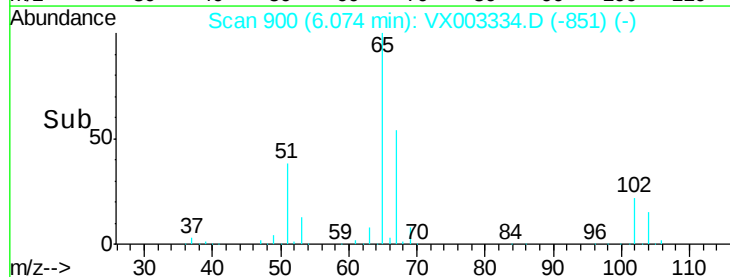
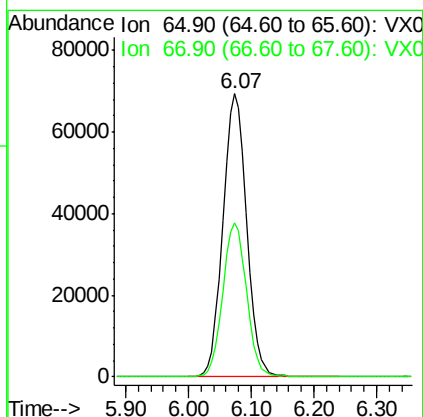
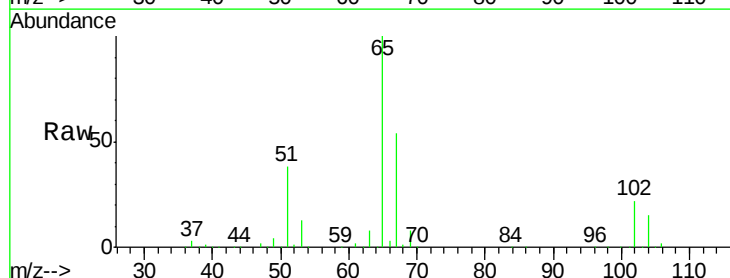
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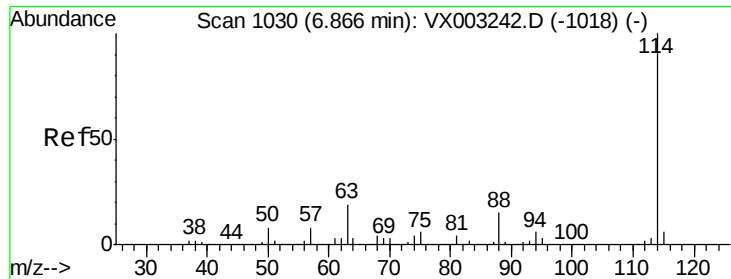
Tot Ion: 56 Resp: 4707
Ion Ratio Lower Upper
56 100
69 198.2 23.7 35.5#
84 141.2 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 40.92 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

Tgt Ion: 65 Resp: 181979
Ion Ratio Lower Upper
65 100
67 54.4 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: VX003334.D

Acq: 11 Jul 2018 21:42

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#08

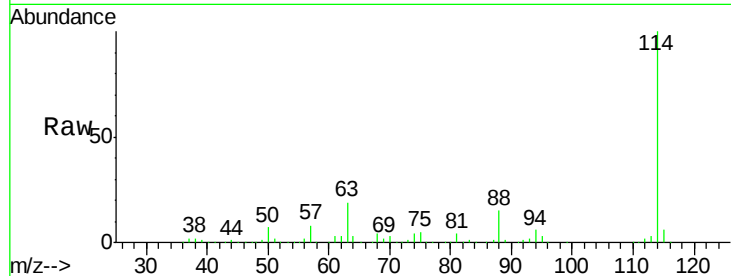
Tot Ion:114 Resp: 426266

Ion Ratio Lower Upper

114 100

63 19.1 0.0 41.4

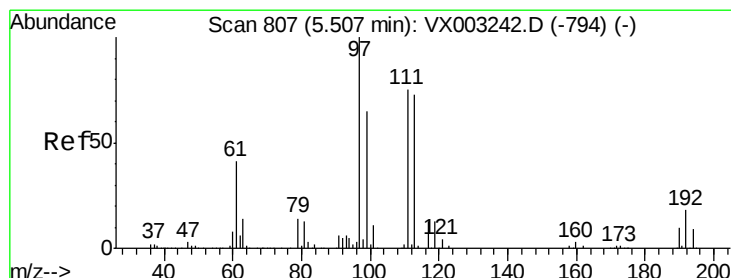
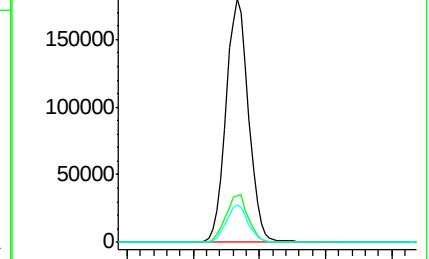
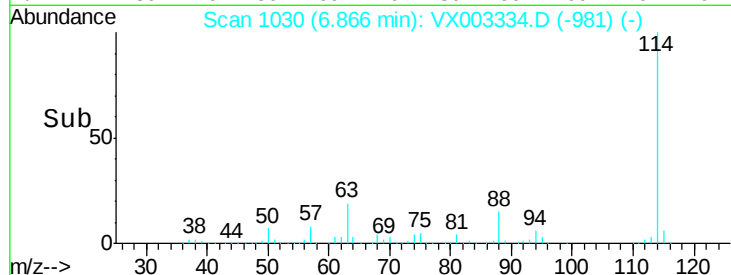
88 15.4 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 34.77 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003334.D

Acq: 11 Jul 2018 21:42

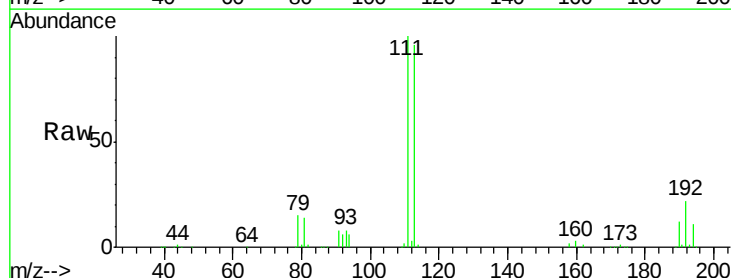
Tgt Ion:113 Resp: 159233

Ion Ratio Lower Upper

113 100

111 105.2 81.4 122.0

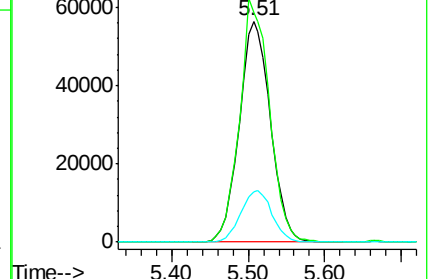
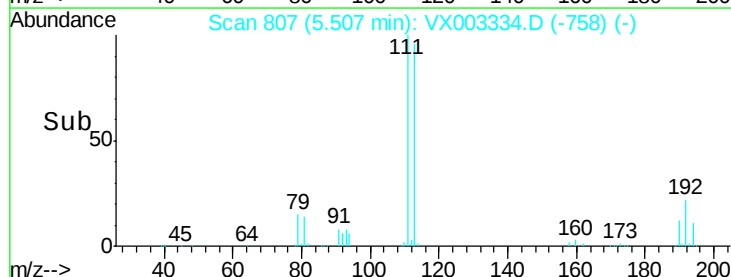
192 23.5 19.1 28.7

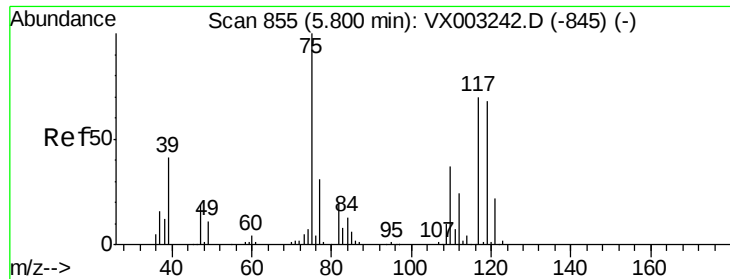


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

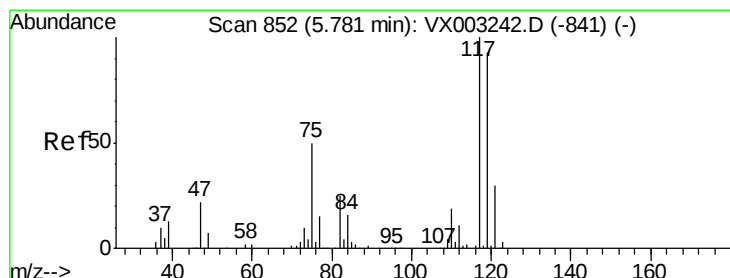
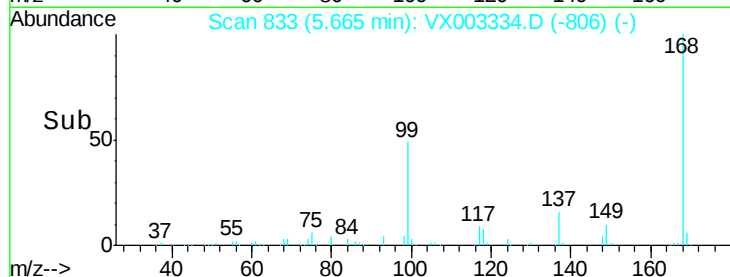
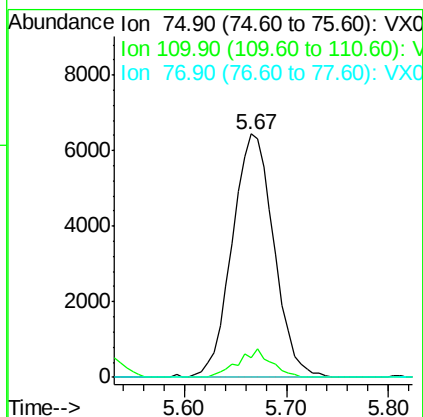
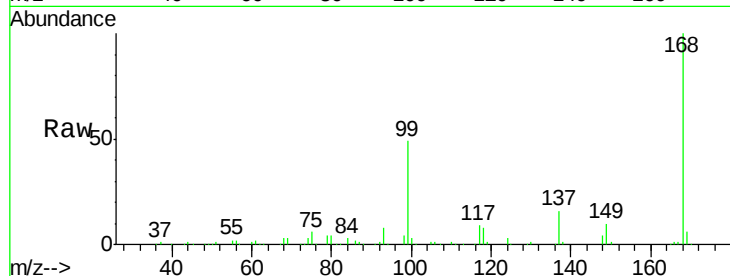




#36
 1,1-Dichloropropene
 Concen: 3.03 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003334.D
 Acq: 11 Jul 2018 21:42

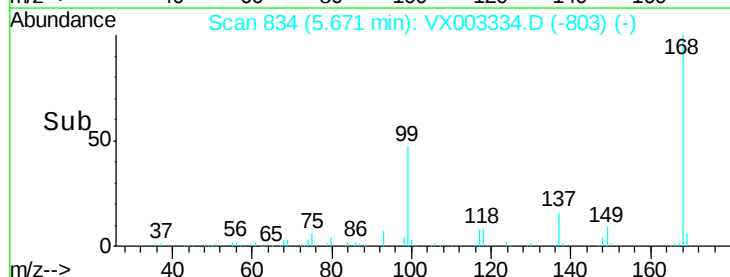
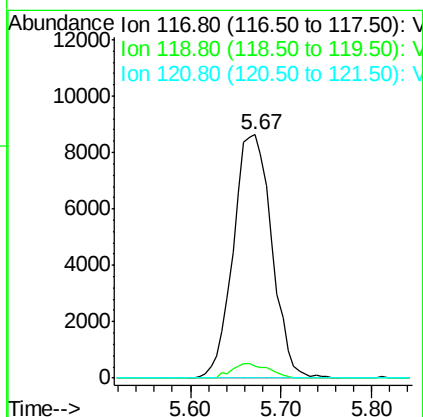
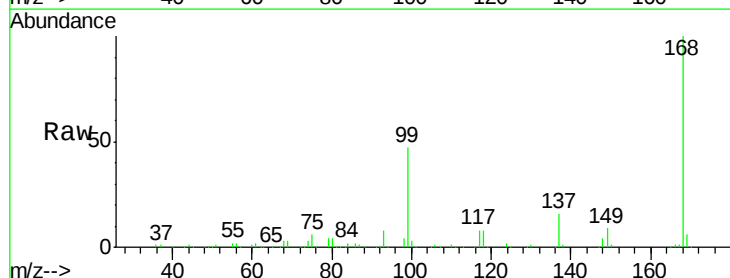
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#08

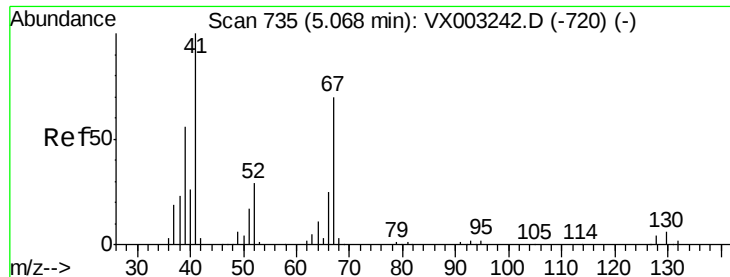
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 3.84 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.11 min
 Lab File: VX003334.D
 Acq: 11 Jul 2018 21:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.4	116.0#
121	0.0	24.4	36.6#

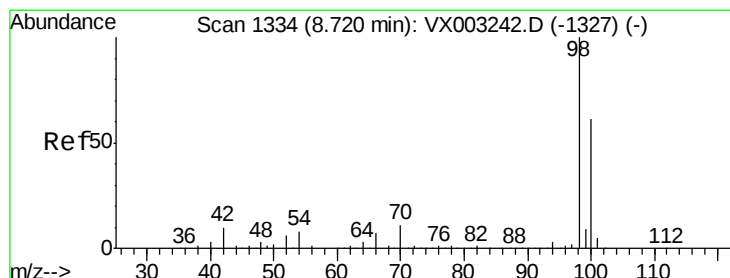
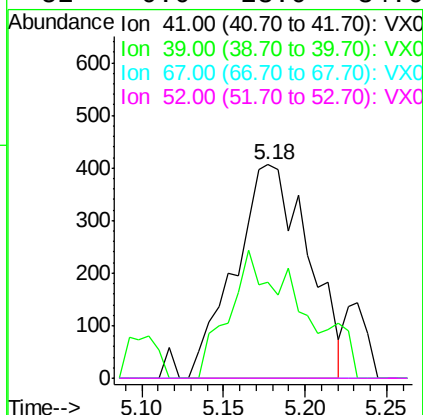
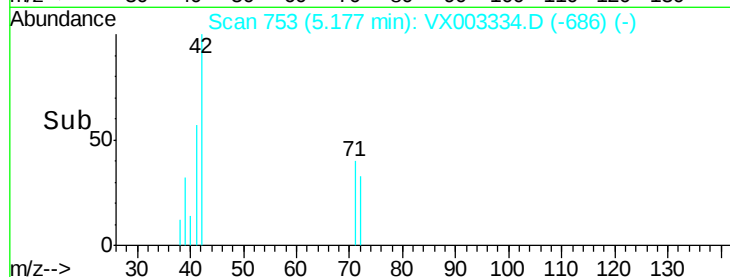
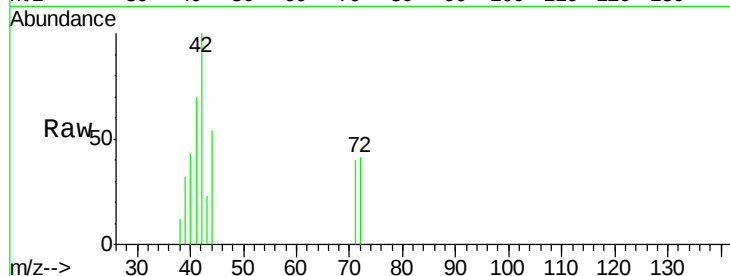




#41
Methacrylonitrile
Concen: 0.35 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.11 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

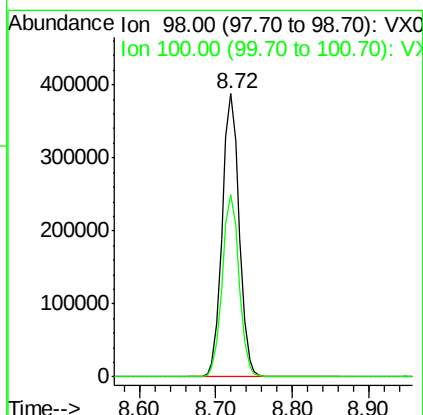
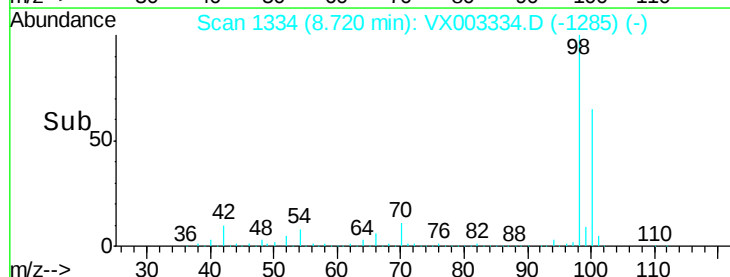
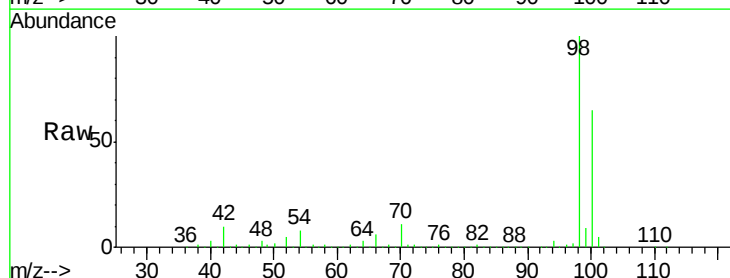
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#08

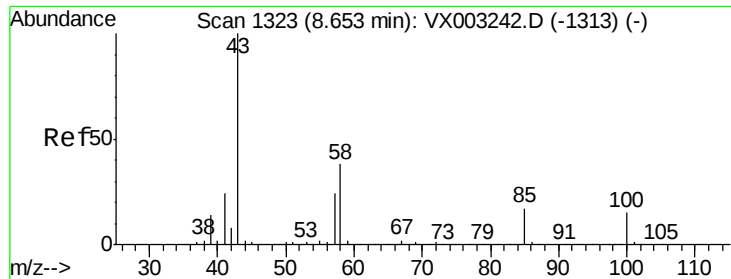
Tot Ion: 41 Resp: 1272
Ion Ratio Lower Upper
41 100
39 58.8 45.8 68.6
67 0.0 51.3 76.9#
52 0.0 23.0 34.6#



#50
Toluene-d8
Concen: 36.67 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

Tgt Ion: 98 Resp: 596514
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003334.D

Acq: 11 Jul 2018 21:42

Instrument :

MSVOA_X

ClientSampleId :

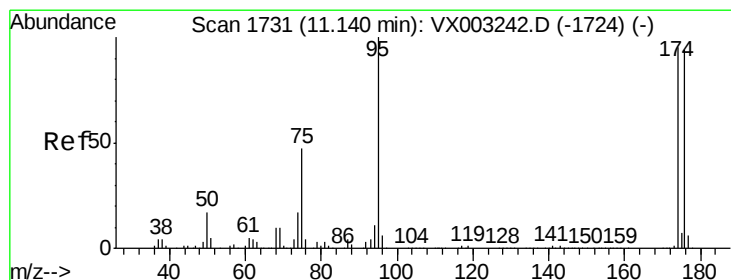
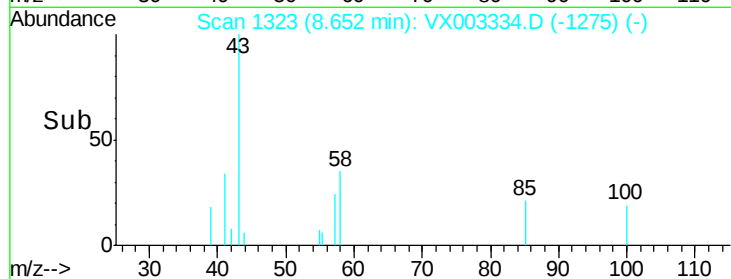
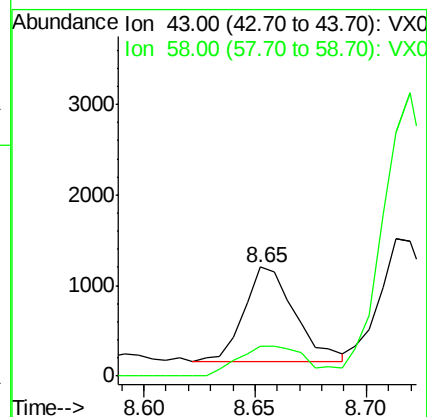
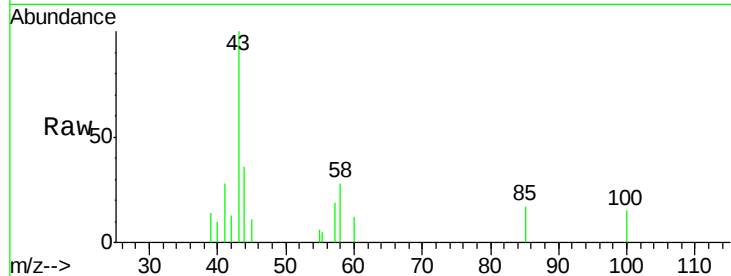
PB110983ZHE#08

Tot Ion: 43 Resp: 1688

Ion Ratio Lower Upper

43 100

58 44.0 28.6 42.8#



#62

4-Bromofluorobenzene

Concen: 31.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003334.D

Acq: 11 Jul 2018 21:42

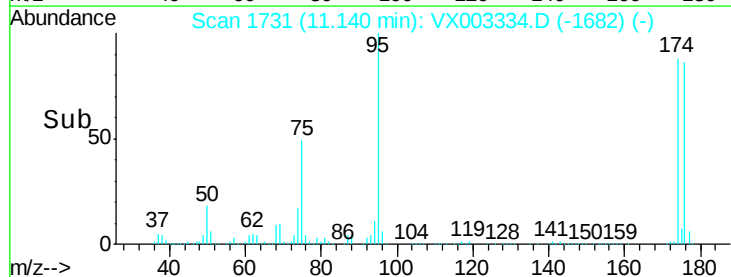
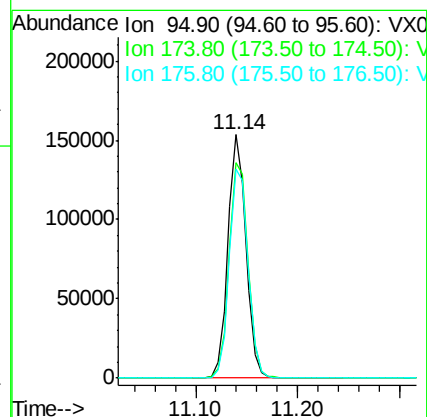
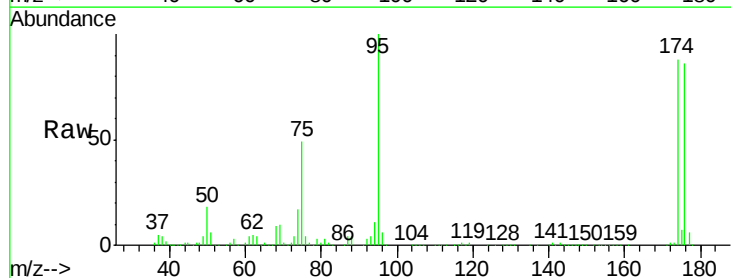
Tgt Ion: 95 Resp: 188559

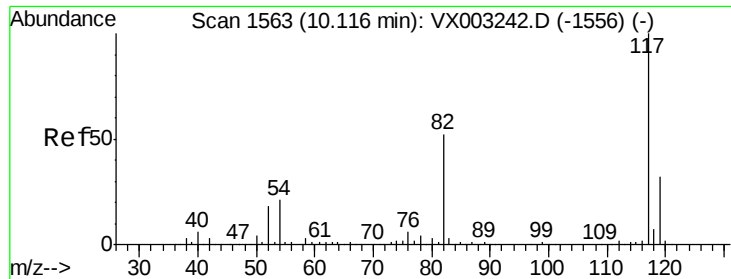
Ion Ratio Lower Upper

95 100

174 92.6 0.0 187.4

176 89.7 0.0 181.0

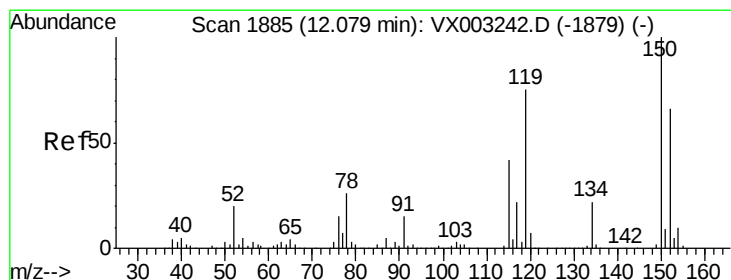
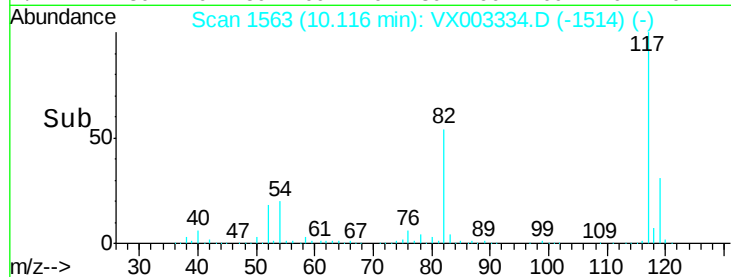
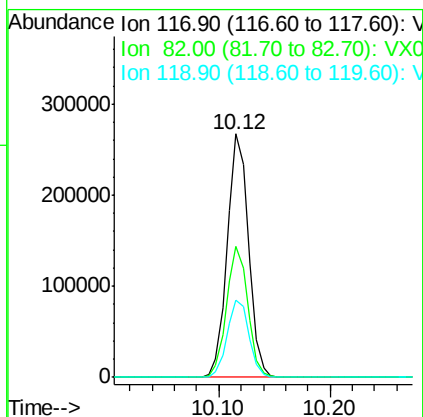
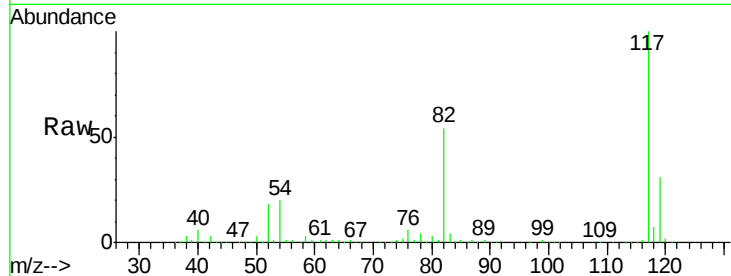




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

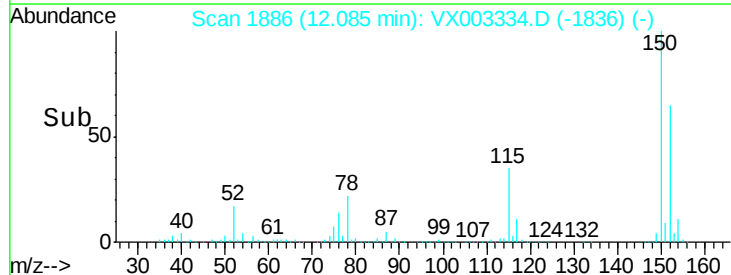
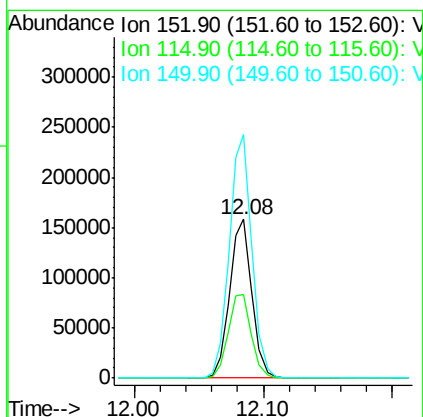
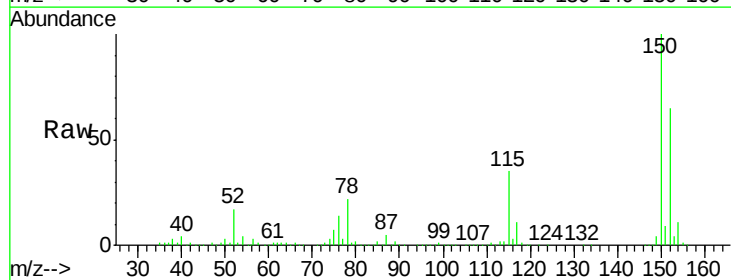
Instrument :
MSVOA_X
ClientSampleId :
PB110983ZHE#08

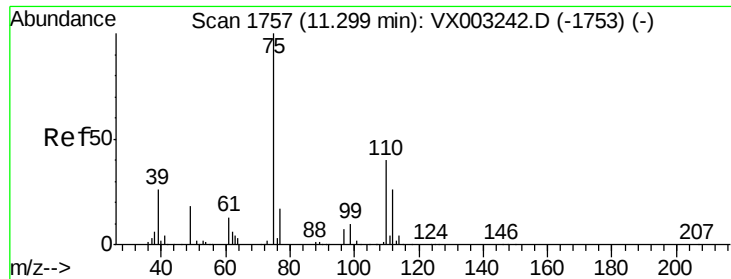
Tot Ion:117 Resp: 353750
Ion Ratio Lower Upper
117 100
82 53.6 45.0 67.4
119 31.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003334.D
Acq: 11 Jul 2018 21:42

Tgt Ion:152 Resp: 191753
Ion Ratio Lower Upper
152 100
115 55.0 40.1 120.2
150 155.4 0.0 347.2

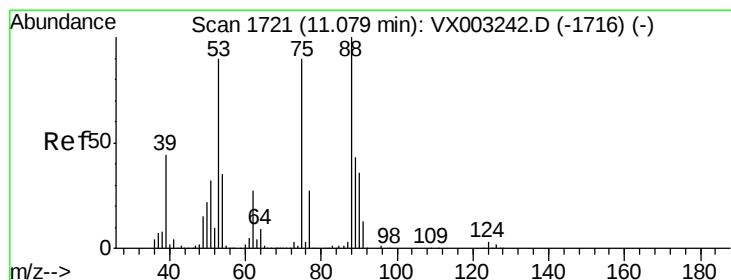
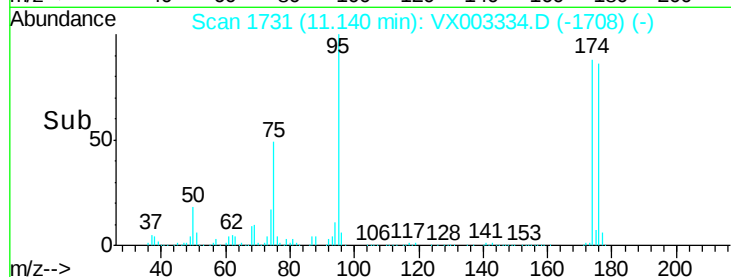
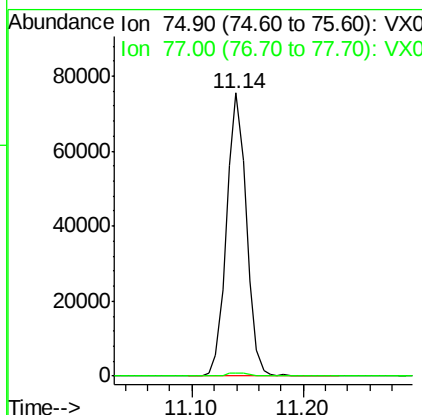
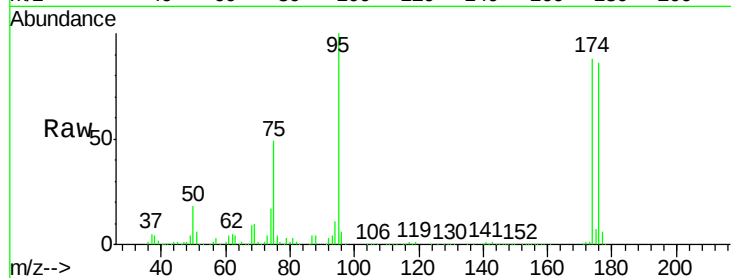




#76
 1,2,3-Trichloropropane
 Concen: 22.43 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003334.D
 Acq: 11 Jul 2018 21:42

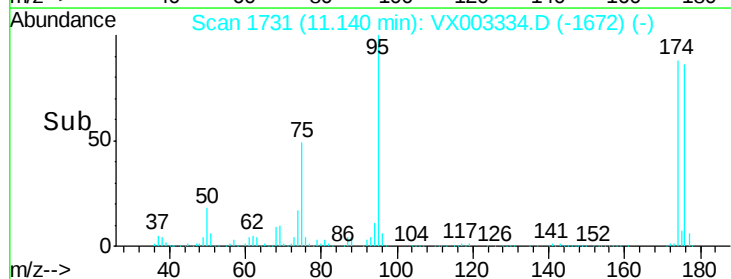
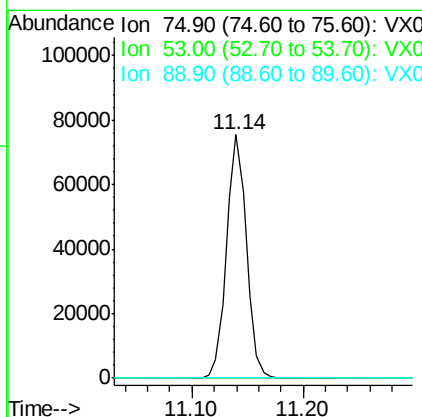
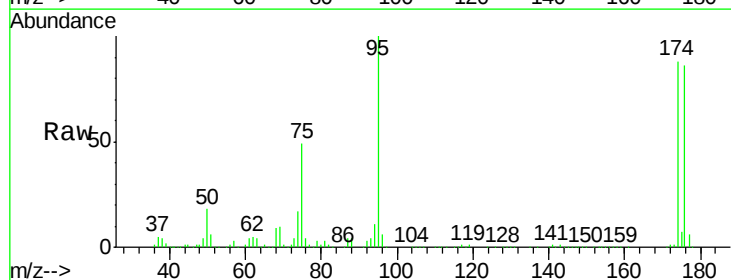
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110983ZHE#08

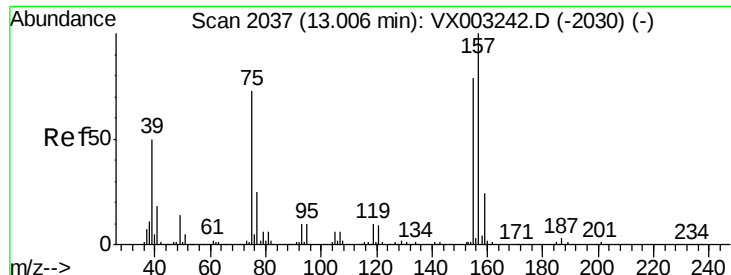
Tot Ion: 75 Resp: 92954
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.31 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003334.D
 Acq: 11 Jul 2018 21:42

Tgt Ion: 75 Resp: 92954
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.25 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003334.D

Acq: 11 Jul 2018 21:42

Instrument :

MSVOA_X

ClientSampleId :

PB110983ZHE#08

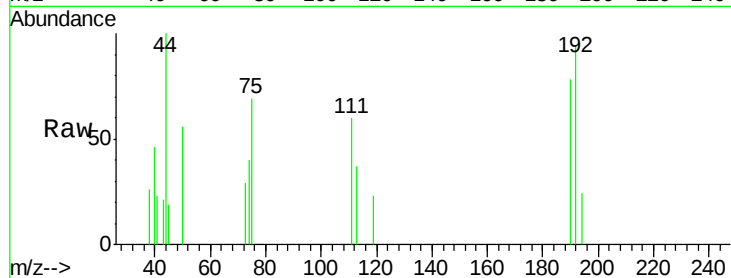
Tot Ion: 75 Resp: 248

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

