

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071818\
 Data File : VX003458.D
 Acq On : 18 Jul 2018 20:01
 Operator : JC/MD
 Sample : PB111206ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 01:44:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	287545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	425203	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	386526	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	206153	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	175926	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
35) Dibromofluoromethane	5.51	113	159616	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
50) Toluene-d8	8.72	98	580273	45.70	ug/l	0.00
Spiked Amount			Recovery	=	91.40%	
62) 4-Bromofluorobenzene	11.14	95	197135	43.49	ug/l	0.00
Spiked Amount			Recovery	=	86.98%	

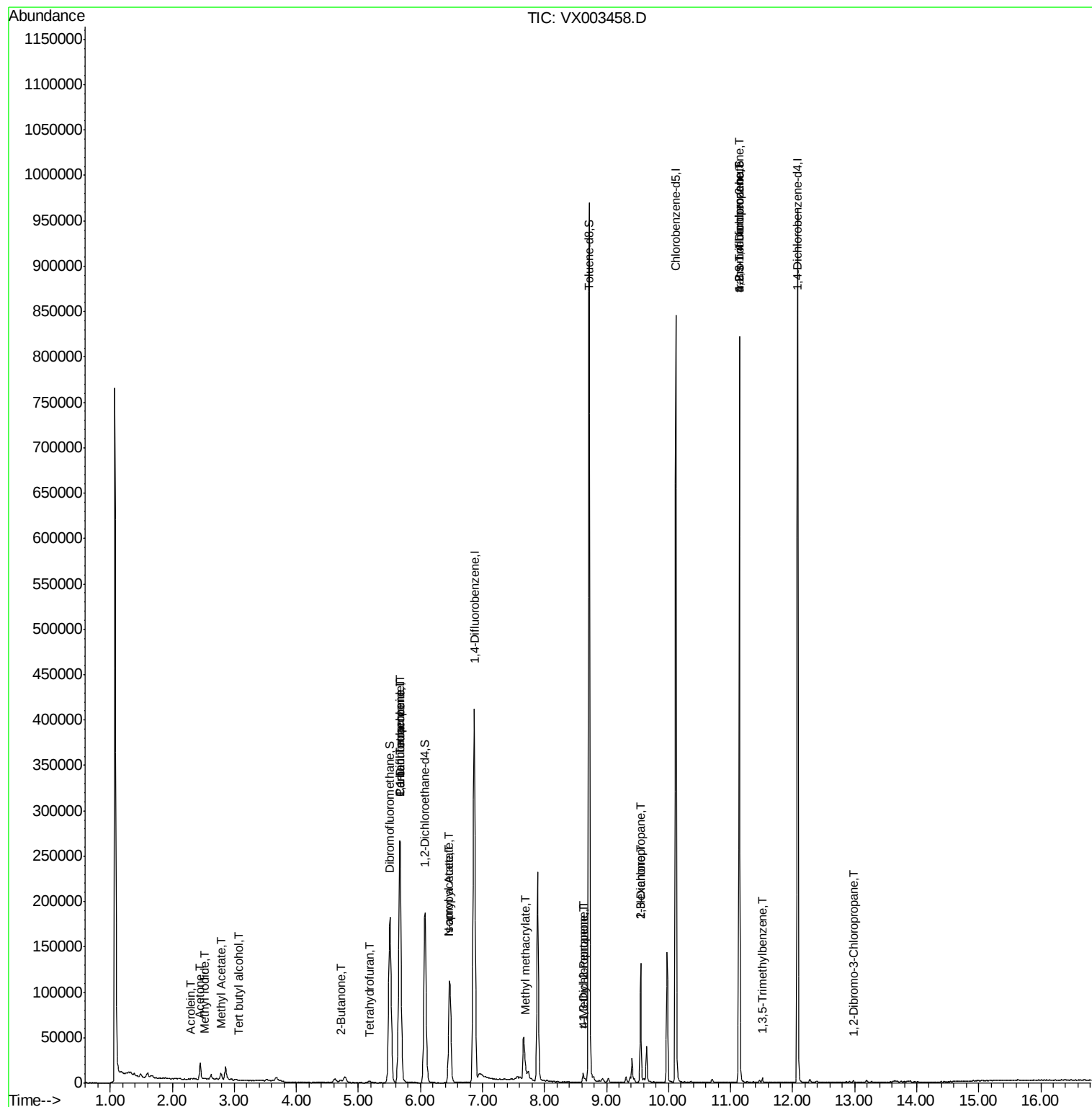
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	1613	Below Cal	#	58
6) Chloroethane	1.72	64	24	Below Cal	#	43
10) Methyl Iodide	2.52	142	1054	0.31	ug/l #	94
11) Tert butyl alcohol	3.07	59	332	0.39	ug/l #	90
13) Acrolein	2.29	56	116	0.29	ug/l #	1
16) Acetone	2.45	43	19482	12.44	ug/l #	87
18) Methyl Acetate	2.78	43	7787	1.53	ug/l #	90
20) Methylene Chloride	2.86	84	6811	Below Cal		88
25) 2-Butanone	4.71	43	4315	1.76	ug/l	96
29) Tetrahydrofuran	5.18	42	1770	1.14	ug/l	95
36) 1,1-Dichloropropene	5.67	75	17385	4.04	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24689	5.63	ug/l #	15
43) Isopropyl Acetate	6.46	43	154682	21.12	ug/l	96
48) Methyl methacrylate	7.69	41	8809	2.36	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	3032	0.63	ug/l #	39
53) t-1,3-Dichloropropene	8.62	75	1570	0.32	ug/l #	43
57) 1,3-Dichloropropane	9.55	76	1192	0.22	ug/l #	42
59) 2-Hexanone	9.55	43	14438	3.90	ug/l #	59
74) N-amyl acetate	6.46	43	154682	24.37	ug/l #	96
76) 1,2,3-Trichloropropane	11.14	75	95373	25.55	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	2310	0.21	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.14	75	95373	83.02	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	343	0.38	ug/l #	1

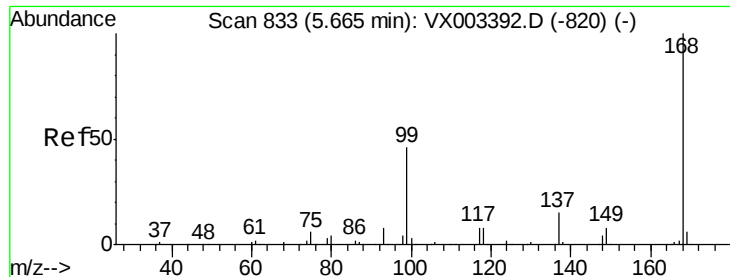
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Jul 19 01:44:19 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 16 13:15:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

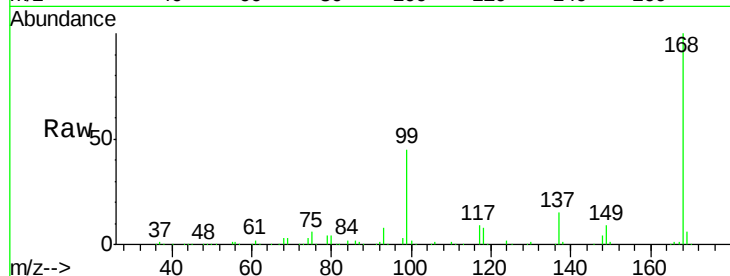
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 287545

Ion Ratio Lower Upper

168 100

99 45.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

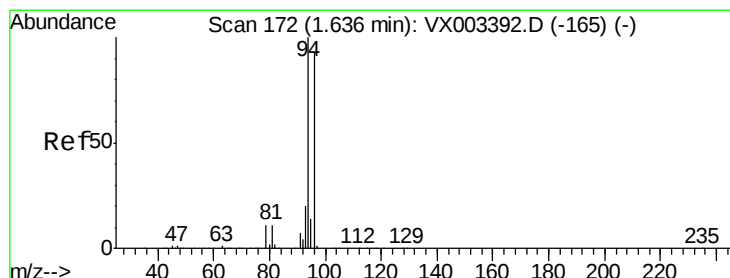
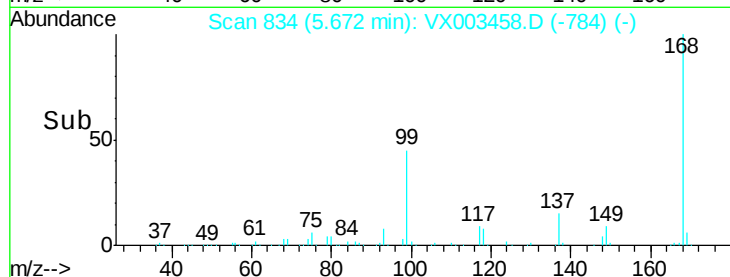
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003458.D

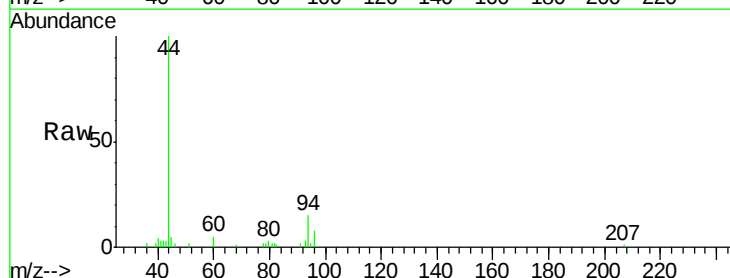
Acq: 18 Jul 2018 20:01

Tgt Ion: 94 Resp: 1613

Ion Ratio Lower Upper

94 100

96 53.5 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

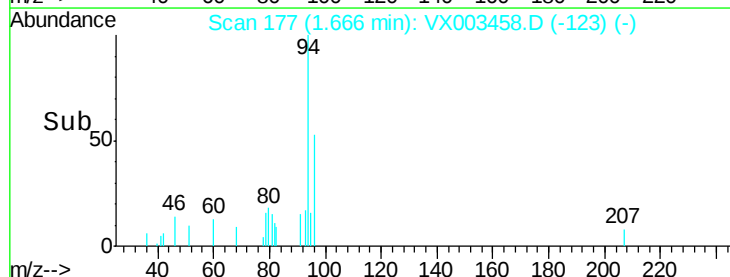
600

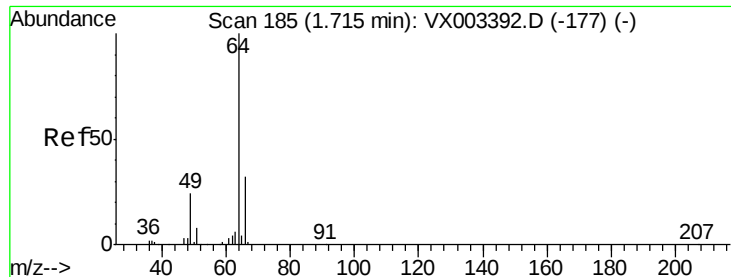
400

200

0

Time--> 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

Instrument :

MSVOA_X

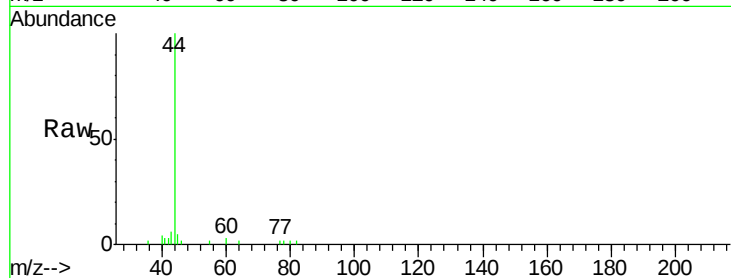
ClientSampleId :

Tot Ion: 64 Resp: 24

Ion Ratio Lower Upper

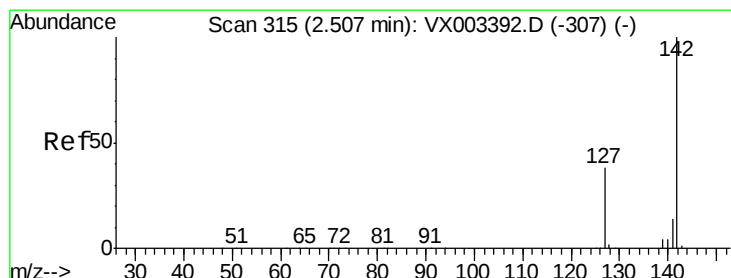
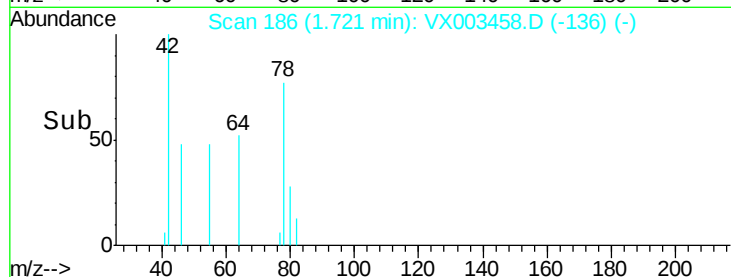
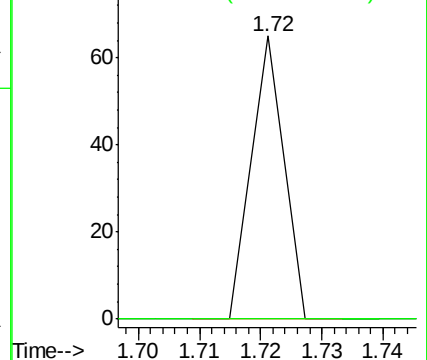
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.31 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

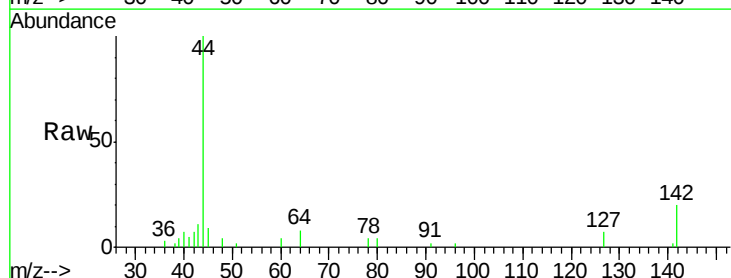
Tgt Ion: 142 Resp: 1054

Ion Ratio Lower Upper

142 100

127 44.3 36.6 55.0

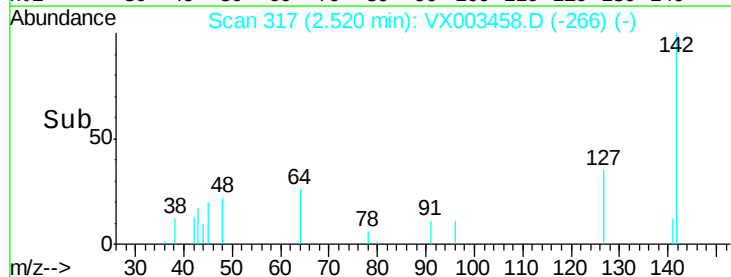
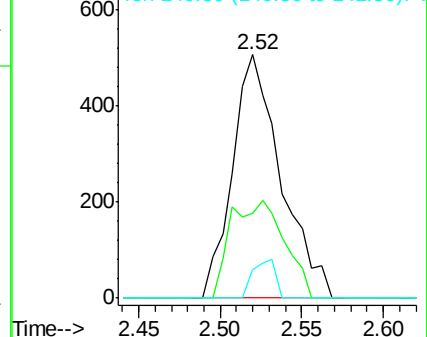
141 7.4 11.3 16.9#

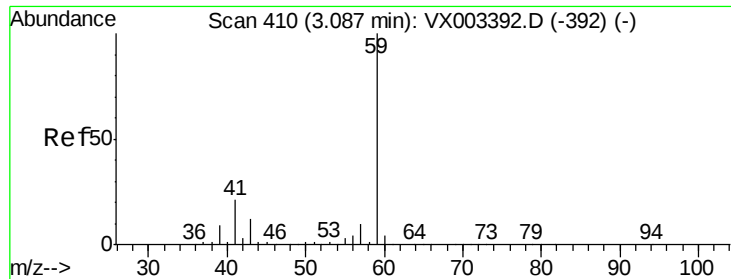


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

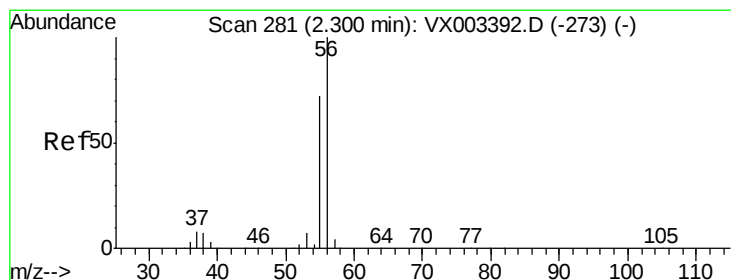
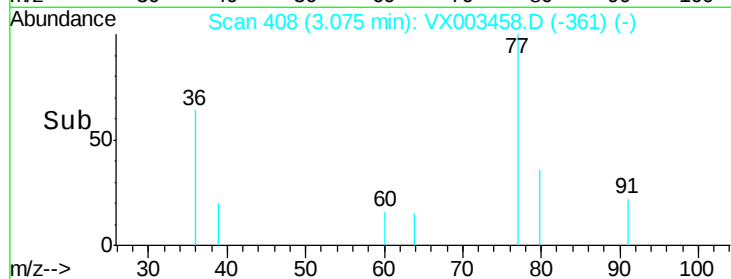
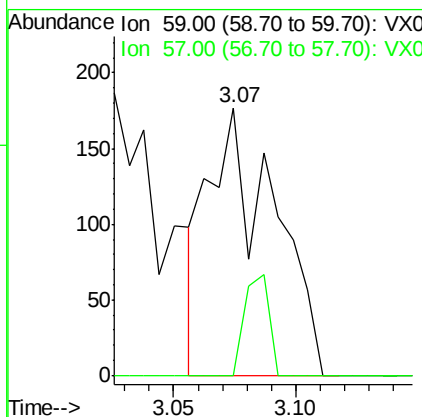
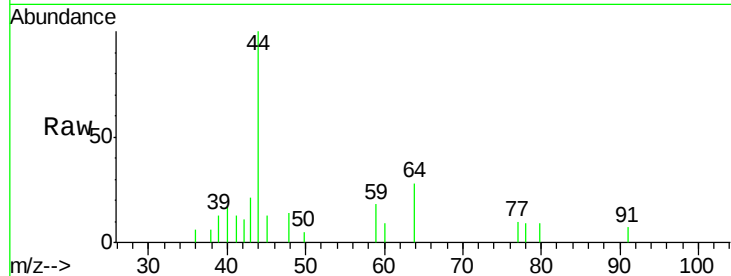




#11
Tert butyl alcohol
Concen: 0.39 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

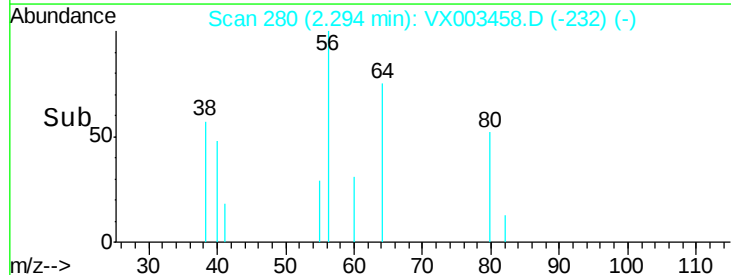
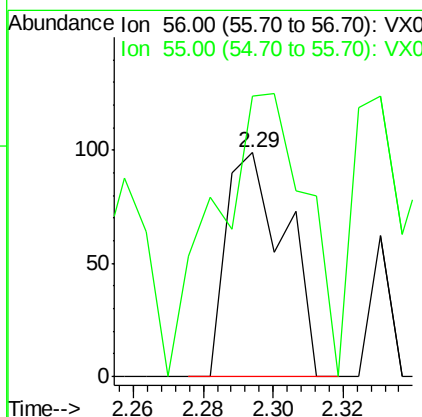
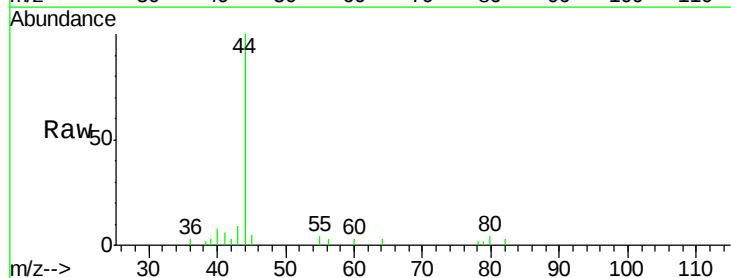
Instrument :
MSVOA_X
ClientSampled :

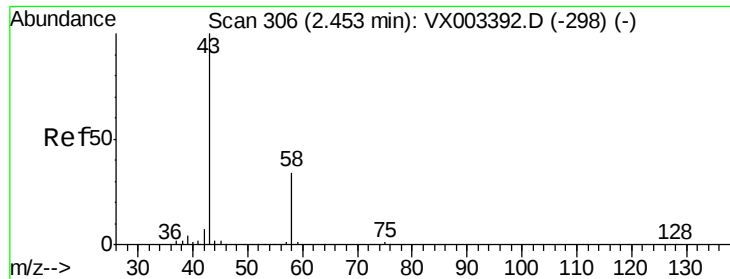
Tot Ion: 59 Resp: 332
Ion Ratio Lower Upper
59 100
57 13.9 8.2 12.2#



#13
Acrolein
Concen: 0.29 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

Tgt Ion: 56 Resp: 116
Ion Ratio Lower Upper
56 100
55 191.4 57.0 85.4#





#16

Acetone

Concen: 12.44 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

Instrument :

MSVOA_X

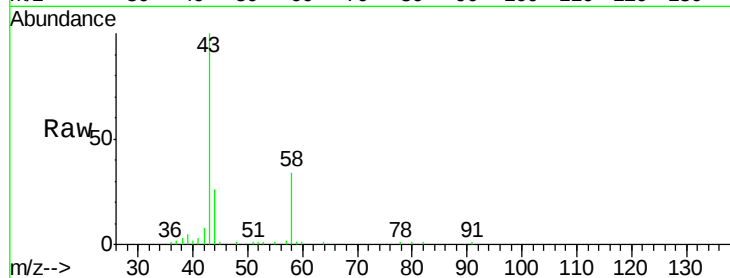
ClientSampleId :

Tot Ion: 43 Resp: 19482

Ion Ratio Lower Upper

43 100

58 34.4 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

12000

10000

8000

6000

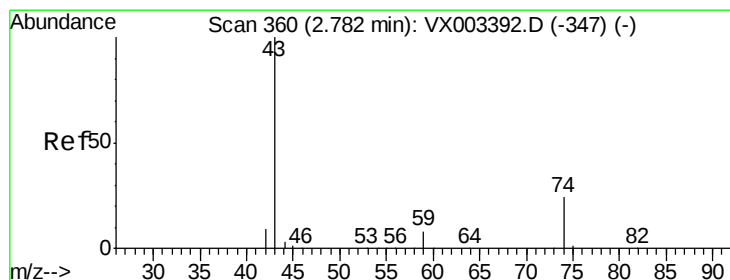
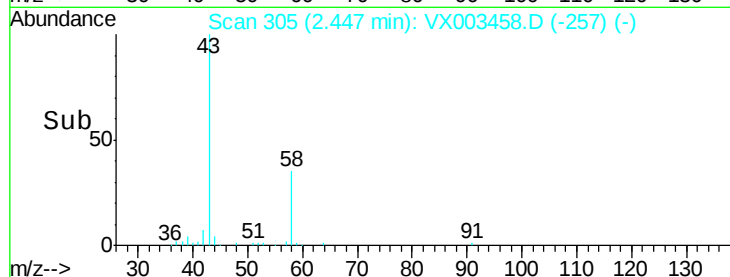
4000

2000

0

2.35 2.40 2.45 2.50 2.55

Time-->



#18

Methyl Acetate

Concen: 1.53 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003458.D

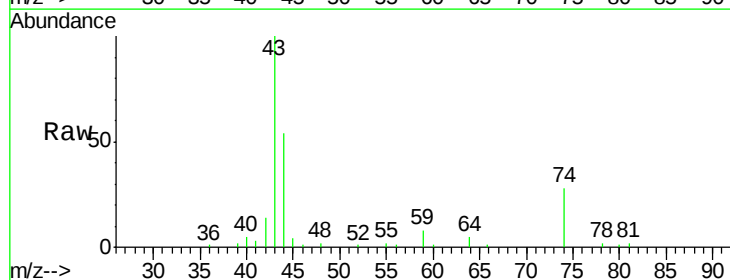
Acq: 18 Jul 2018 20:01

Tgt Ion: 43 Resp: 7787

Ion Ratio Lower Upper

43 100

74 25.7 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

5000

4000

3000

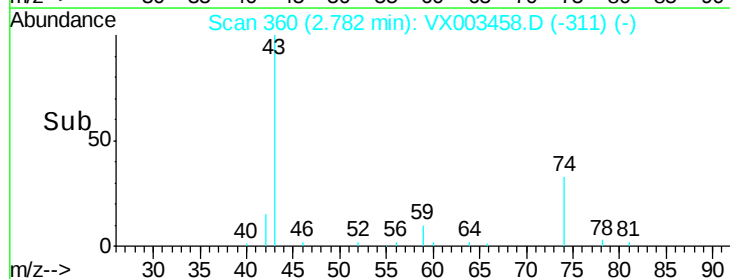
2000

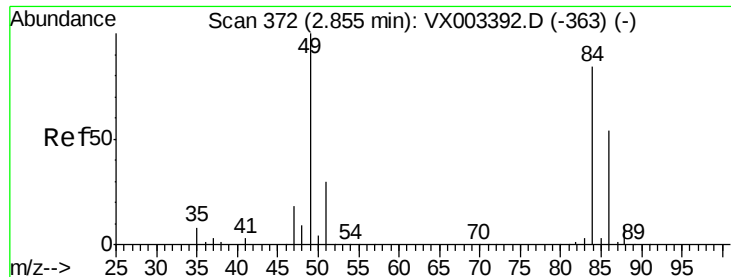
1000

0

2.70 2.75 2.80 2.85

Time-->

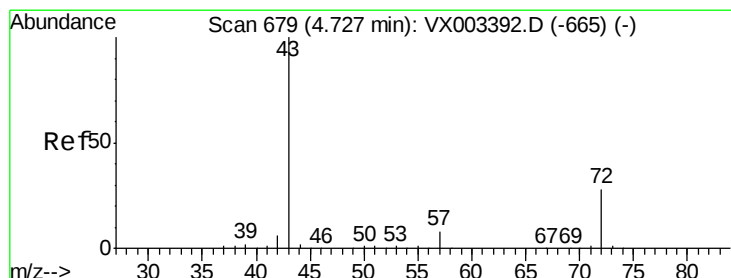
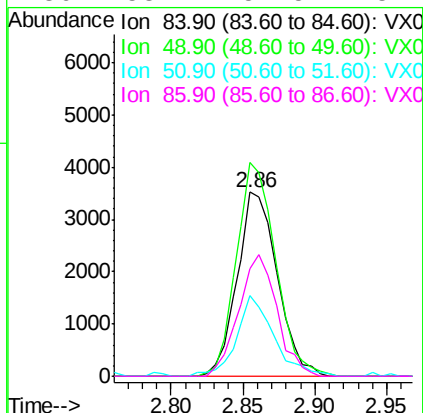
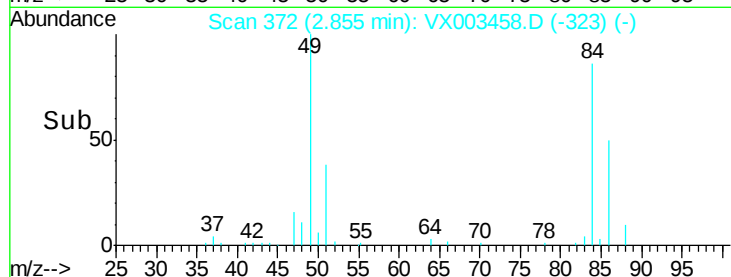
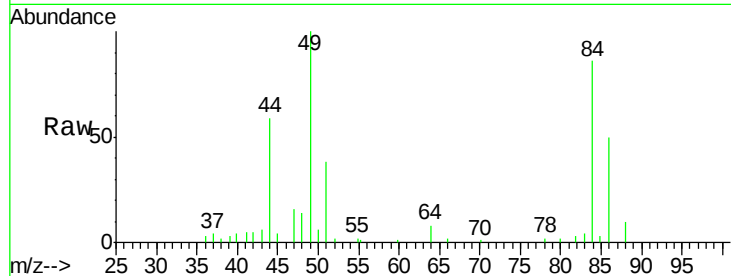




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

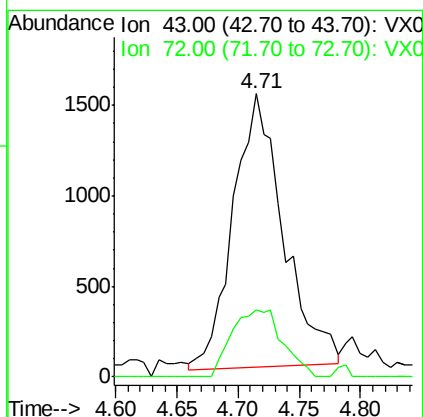
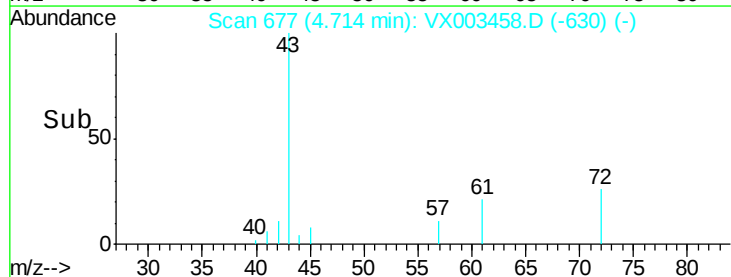
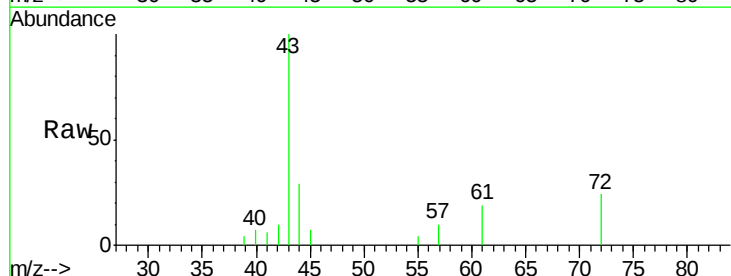
Instrument :
MSVOA_X
ClientSampleId :

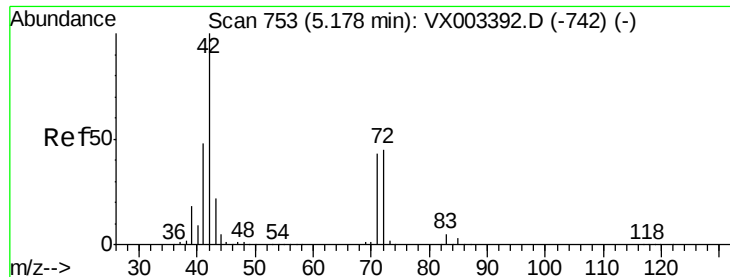
Tot Ion: 84 Resp: 6811
Ion Ratio Lower Upper
84 100
49 115.9 107.8 161.6
51 44.0 32.8 49.2
86 58.4 52.5 78.7



#25
2-Butanone
Concen: 1.76 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.01 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

Tgt Ion: 43 Resp: 4315
Ion Ratio Lower Upper
43 100
72 25.0 18.5 27.7





#29

Tetrahydrofuran

Concen: 1.14 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

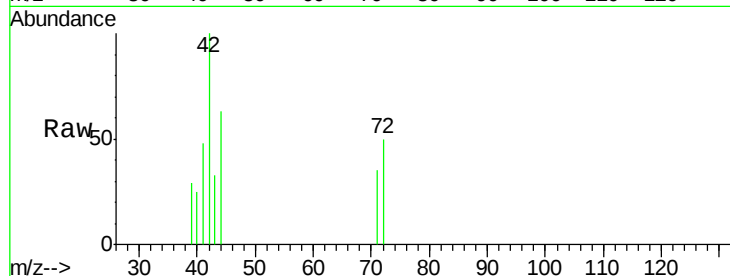
Tot Ion: 42 Resp: 1770

Ion Ratio Lower Upper

42 100

72 37.6 32.0 48.0

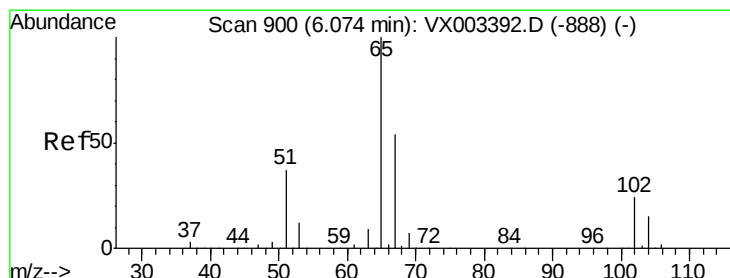
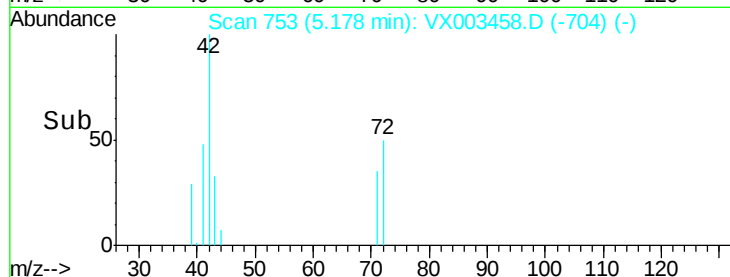
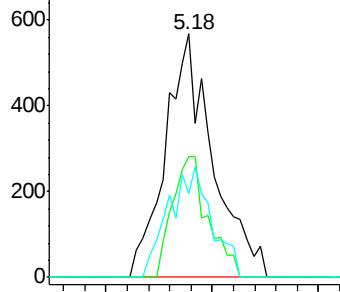
71 41.1 30.1 45.1



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: 46.72 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003458.D

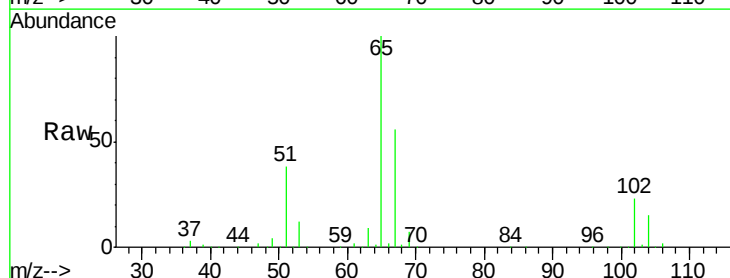
Acq: 18 Jul 2018 20:01

Tgt Ion: 65 Resp: 175926

Ion Ratio Lower Upper

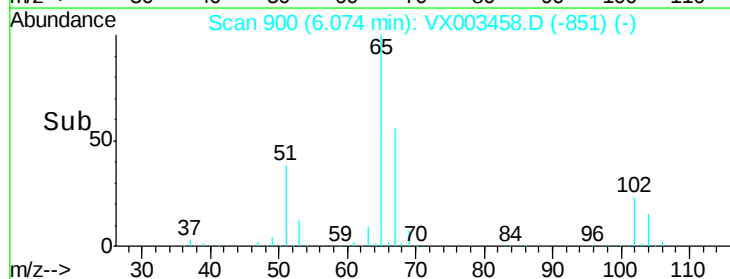
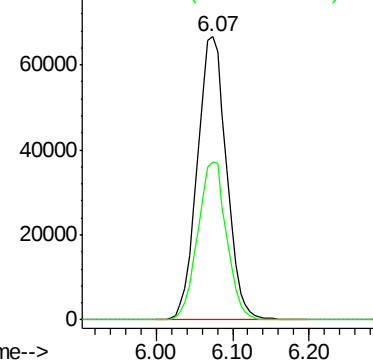
65 100

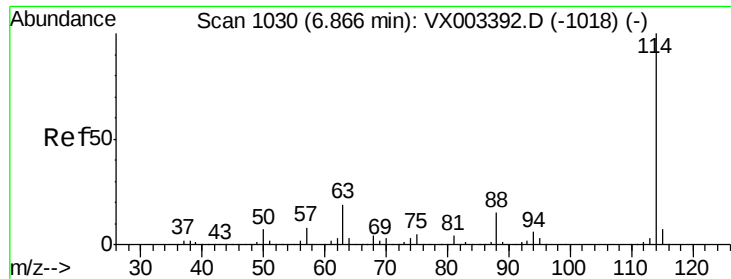
67 55.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

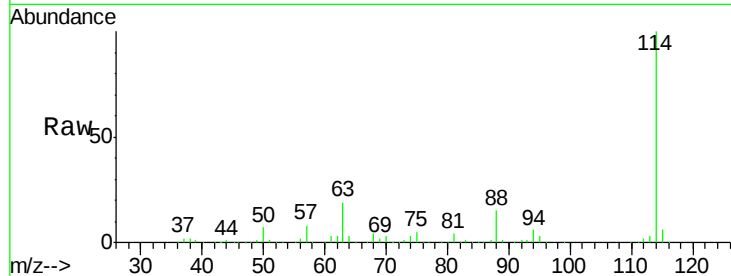




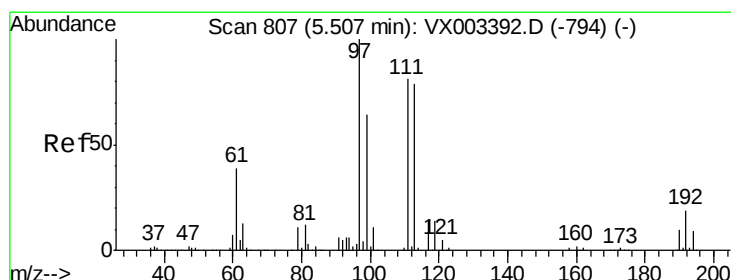
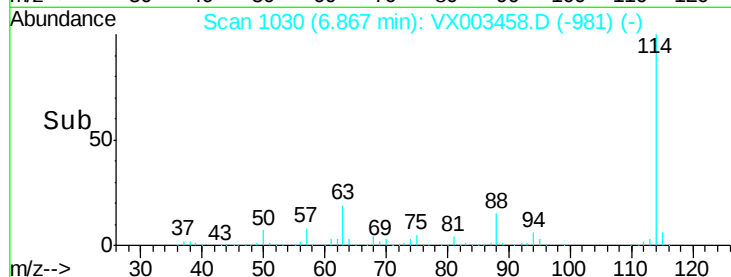
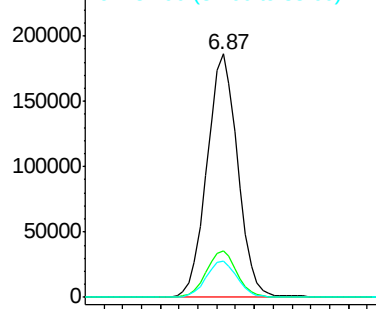
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 425203
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 41.4
 88 15.0 0.0 30.0

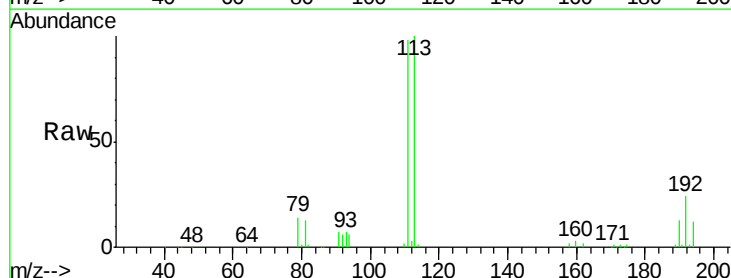


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

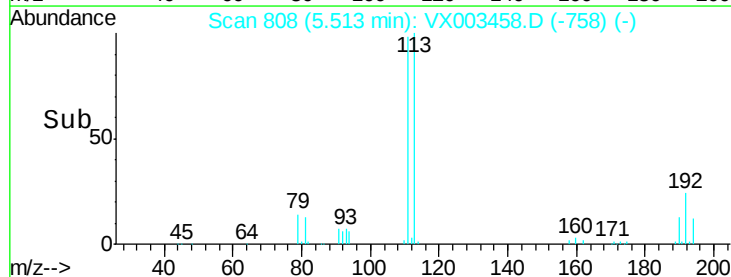
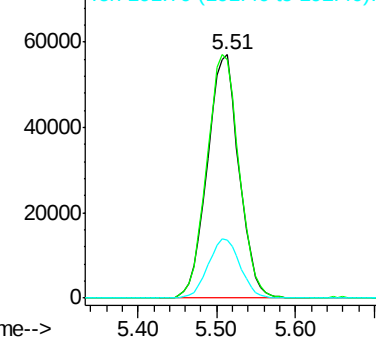


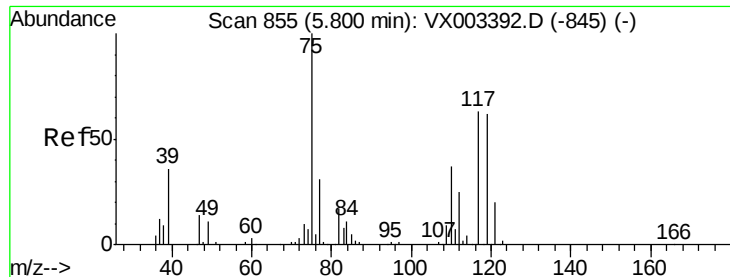
#35
 Dibromofluoromethane
 Concen: 46.40 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

Tgt Ion:113 Resp: 159616
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.4 122.0
 192 24.4 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

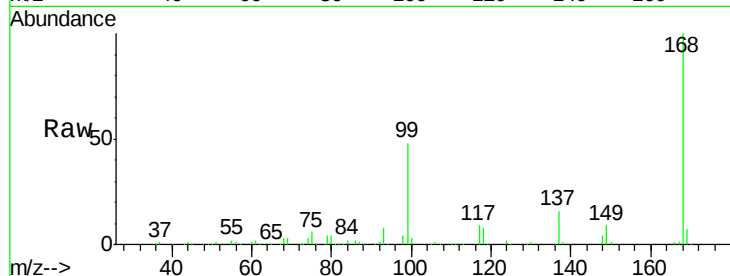




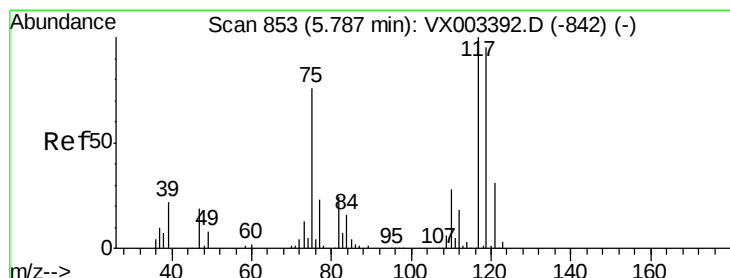
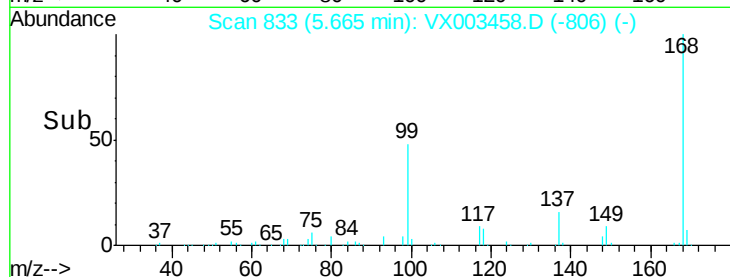
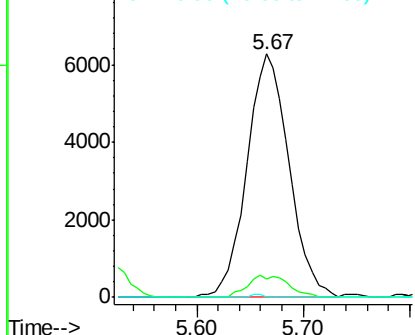
#36
 1,1-Dichloropropene
 Concen: 4.04 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.3	24.3	36.5#

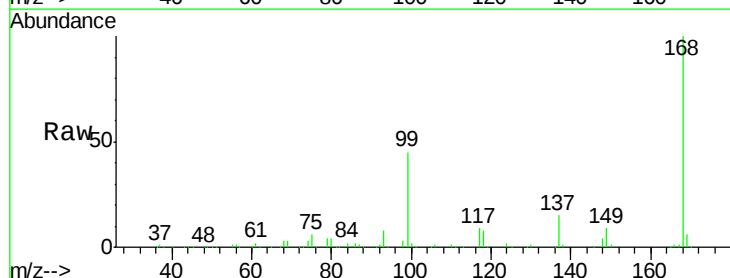


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

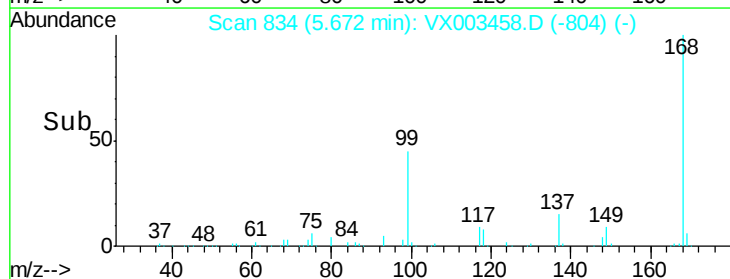
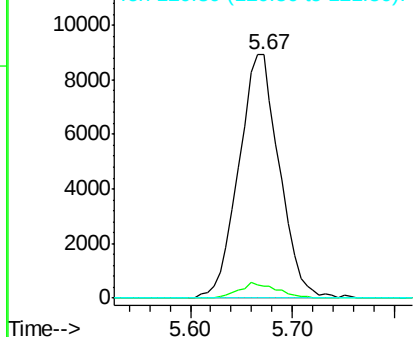


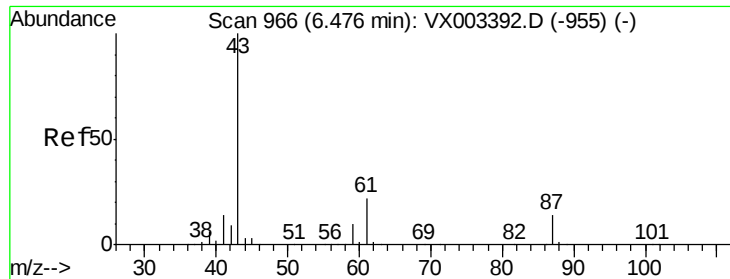
#38
 Carbon Tetrachloride
 Concen: 5.63 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	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



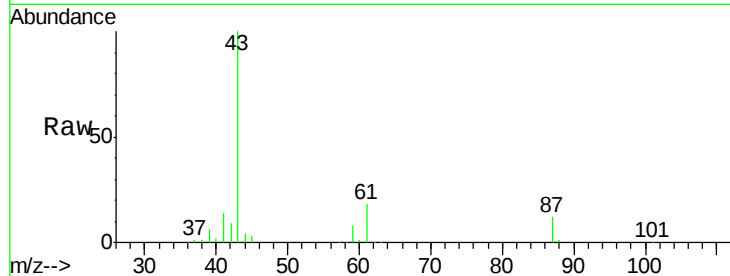


#43

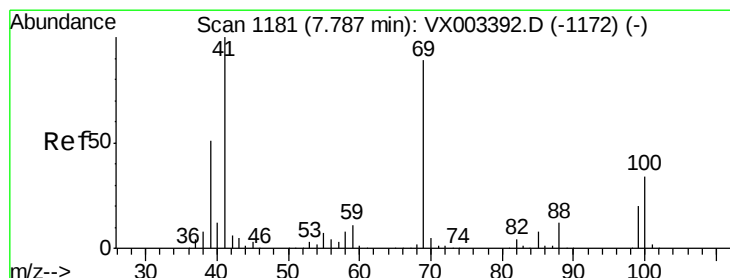
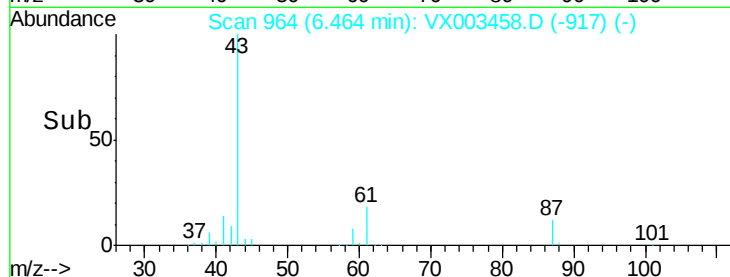
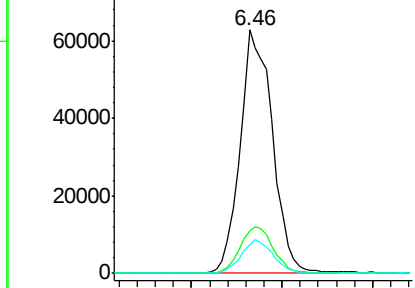
Isopropyl Acetate
 Concen: 21.12 ug/l
 RT: 6.46 min Scan# 964
 Delta R.T. -0.01 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	43	Resp	154682
Ion Ratio	Lower	Upper	
43	100		
61	19.8	14.4	21.6
87	13.4	9.5	14.3



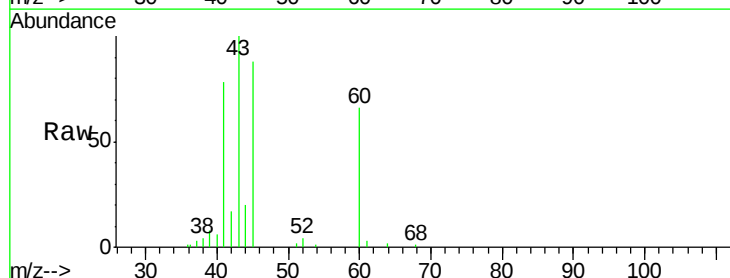
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



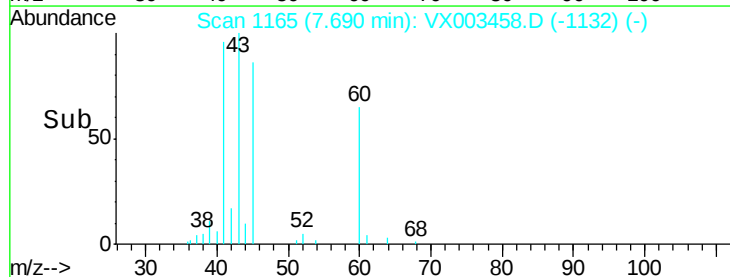
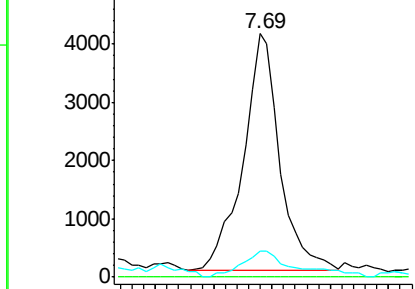
#48

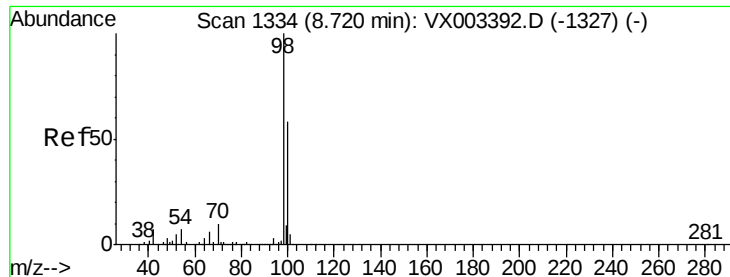
Methyl methacrylate
 Concen: 2.36 ug/l
 RT: 7.69 min Scan# 1165
 Delta R.T. -0.10 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

Tgt Ion	41	Resp	8809
Ion Ratio	Lower	Upper	
41	100		
69	0.0	59.1	88.7#
39	13.3	48.9	73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

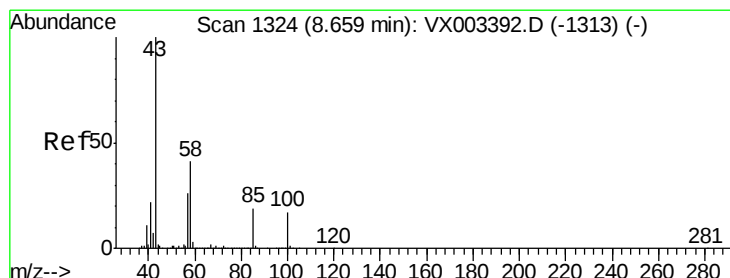
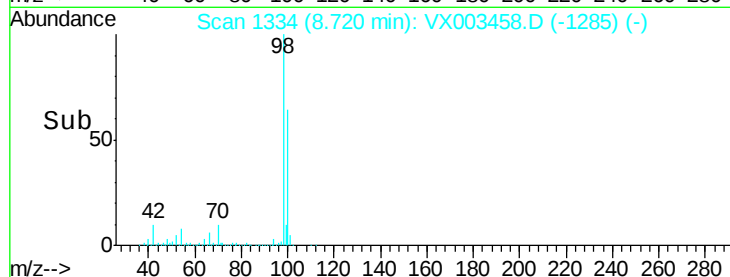
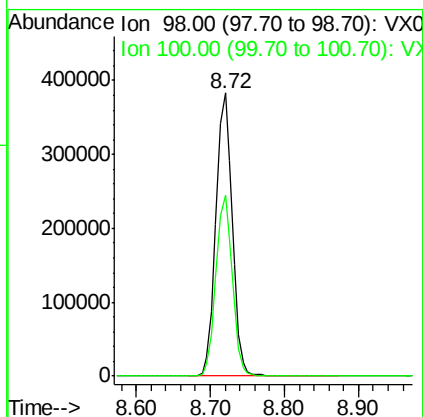
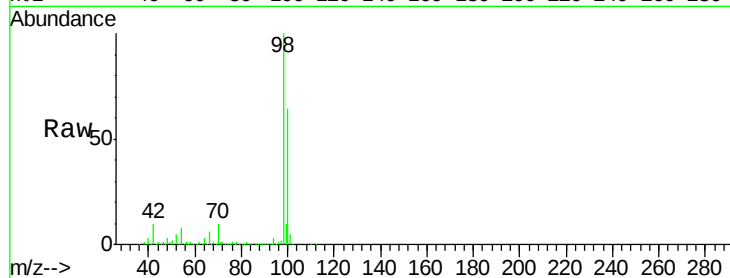




#50
Toluene-d8
Concen: 45.70 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

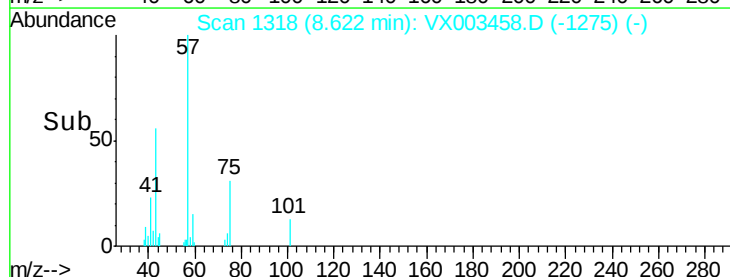
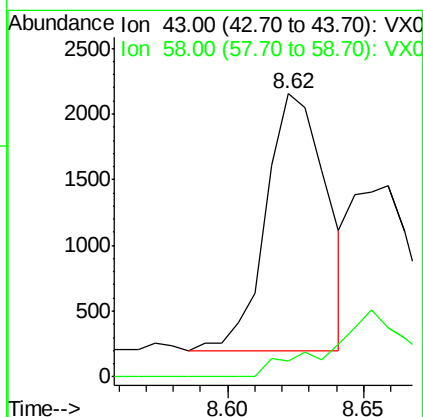
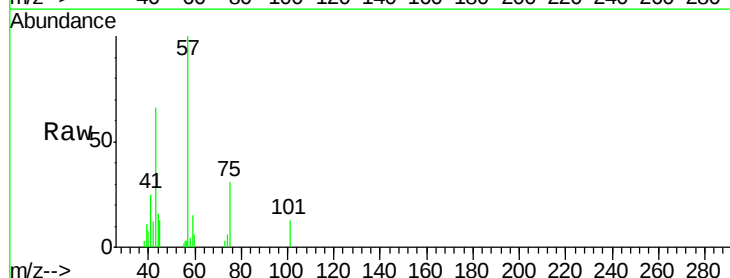
Instrument :
MSVOA_X
ClientSampleId :

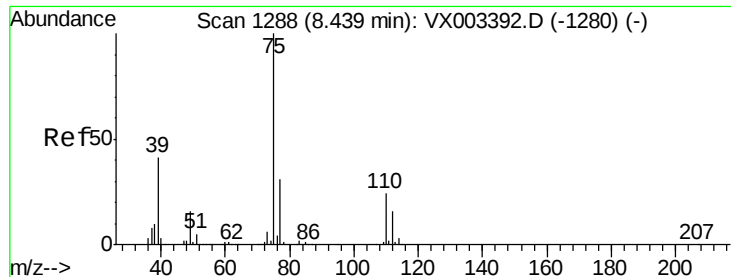
Tot Ion: 98 Resp: 580273
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.63 ug/l
RT: 8.62 min Scan# 1318
Delta R.T. -0.04 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

Tgt Ion: 43 Resp: 3032
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#





#53

t-1,3-Dichloropropene

Concen: 0.32 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. 0.18 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

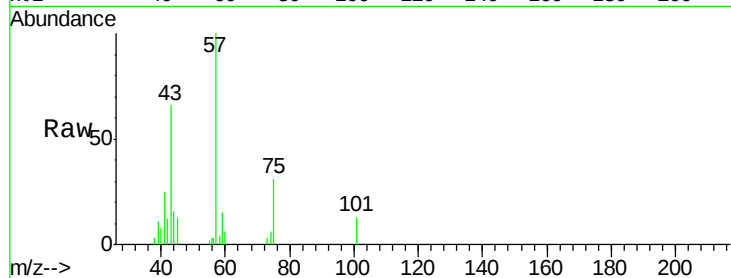
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 1570

Ion Ratio Lower Upper

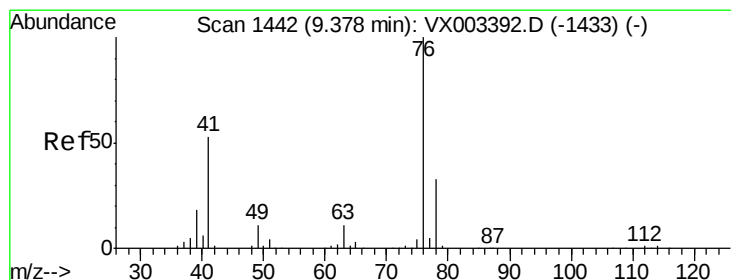
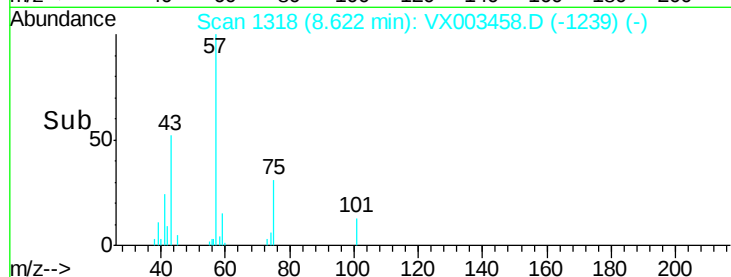
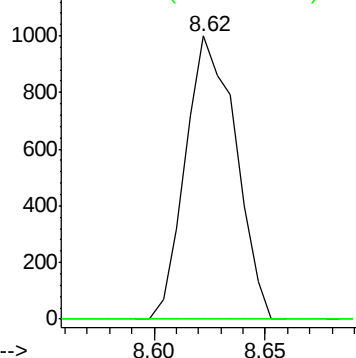
75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#57

1,3-Dichloropropane

Concen: 0.22 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.17 min

Lab File: VX003458.D

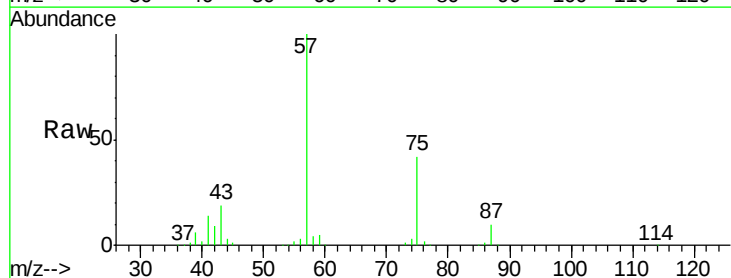
Acq: 18 Jul 2018 20:01

Tgt Ion: 76 Resp: 1192

Ion Ratio Lower Upper

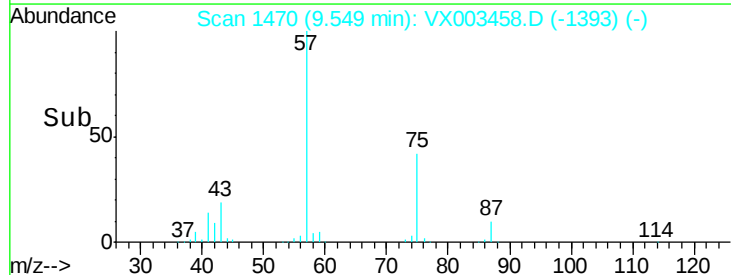
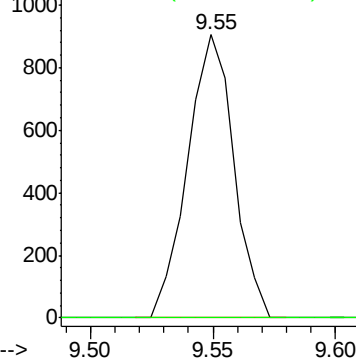
76 100

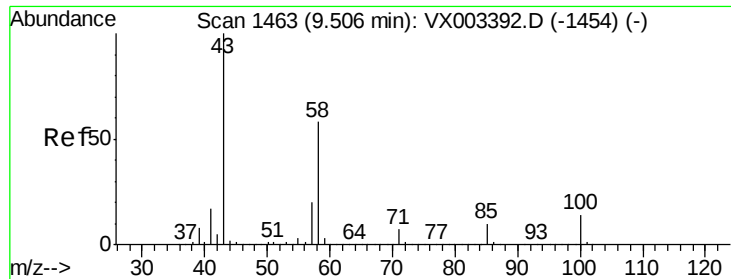
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

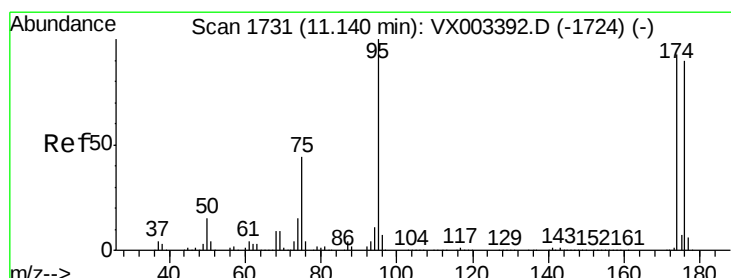
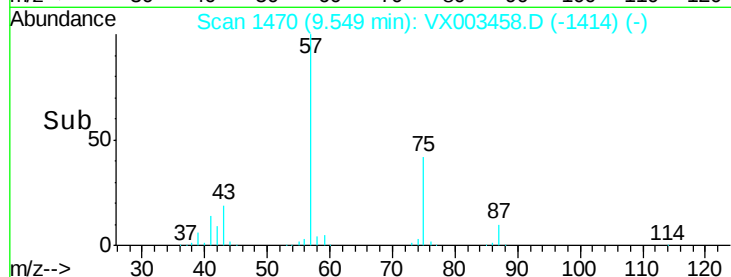
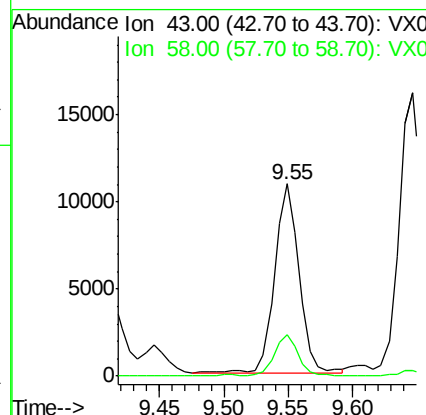
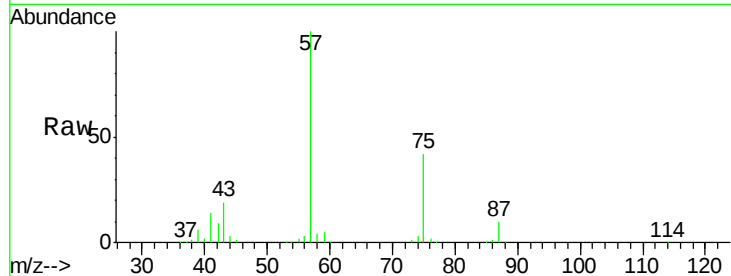




#59
2-Hexanone
Concen: 3.90 ug/l
RT: 9.55 min Scan# 1470
Delta R.T. 0.04 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

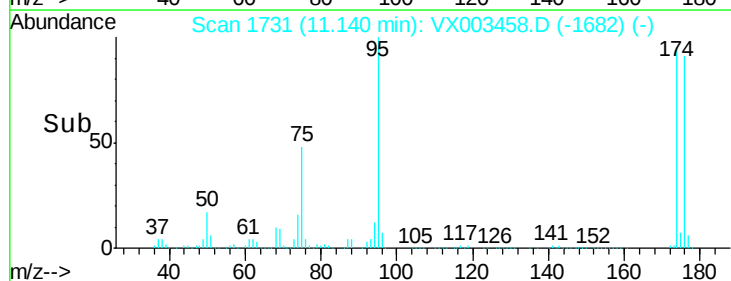
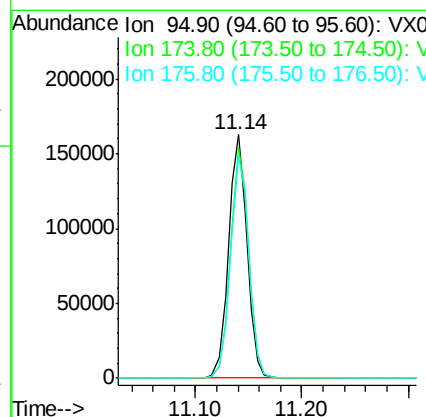
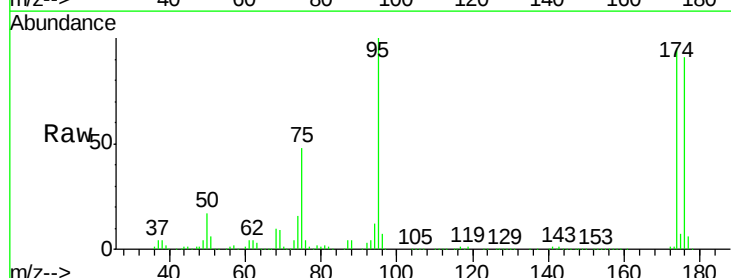
Instrument :
MSVOA_X
ClientSampleId :

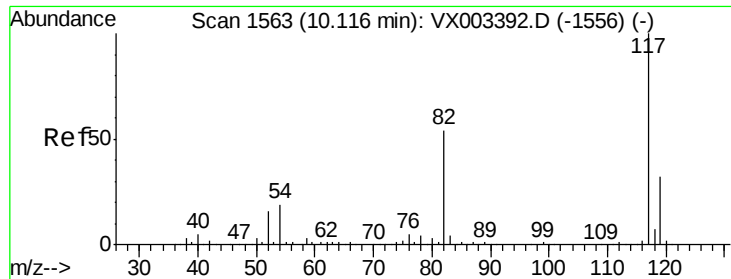
Tot Ion: 43 Resp: 14438
Ion Ratio Lower Upper
43 100
58 21.4 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 43.49 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003458.D
Acq: 18 Jul 2018 20:01

Tgt Ion: 95 Resp: 197135
Ion Ratio Lower Upper
95 100
174 94.6 0.0 187.4
176 91.4 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: VX003458.D

Acq: 18 Jul 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

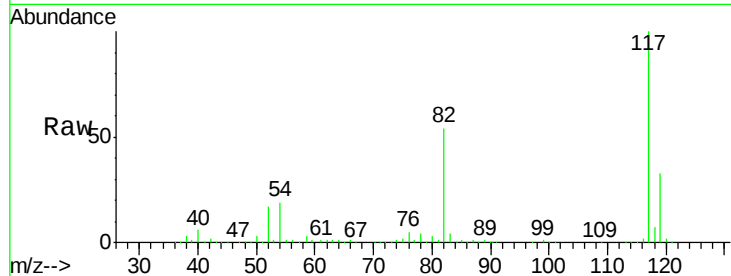
Tot Ion:117 Resp: 386526

Ion Ratio Lower Upper

117 100

82 53.7 45.0 67.4

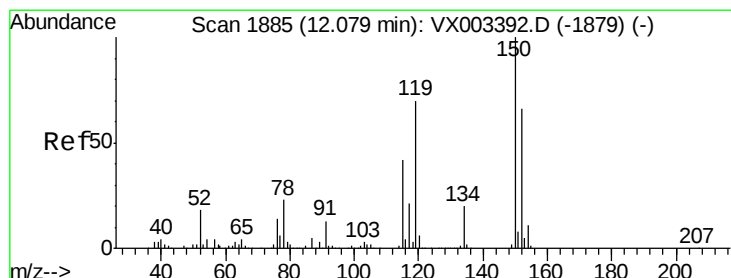
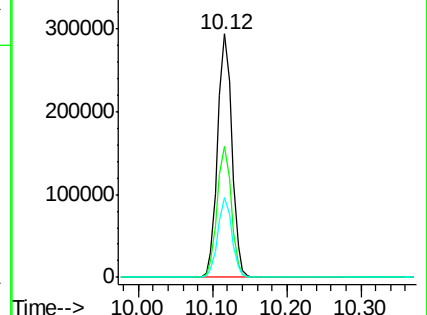
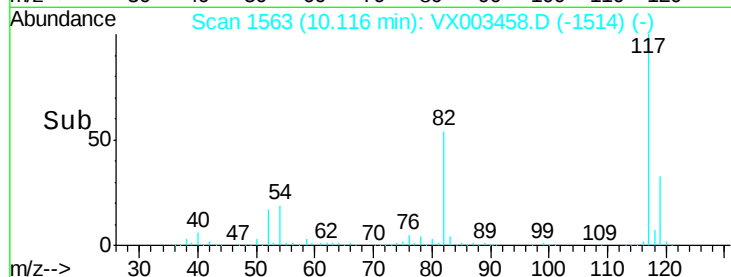
119 32.7 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

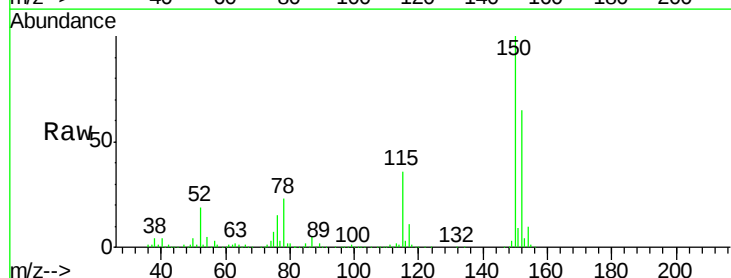
Tgt Ion:152 Resp: 206153

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

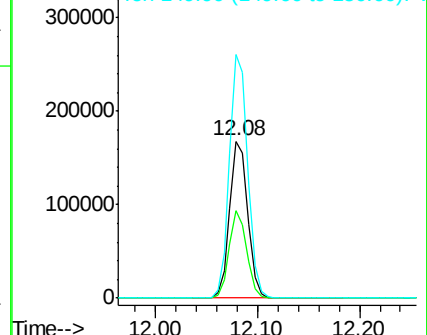
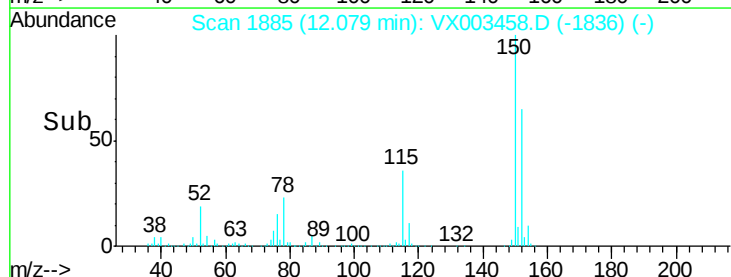
150 156.4 0.0 347.2

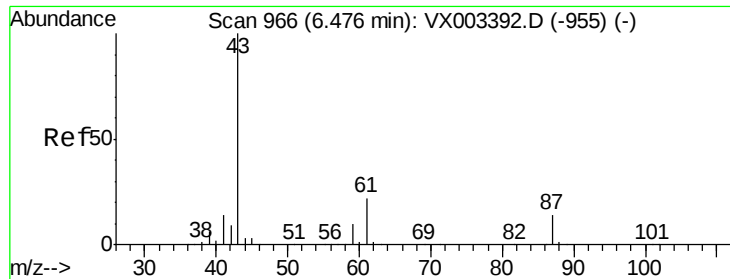


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 24.37 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 154682

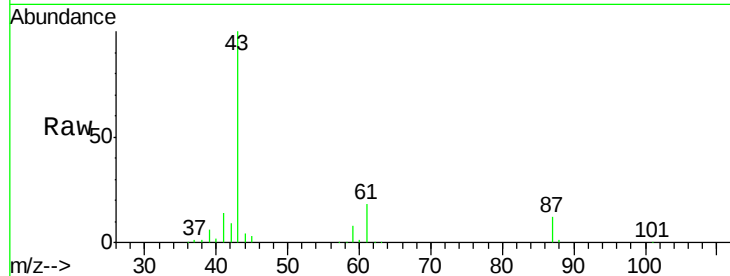
Ion Ratio Lower Upper

43 100

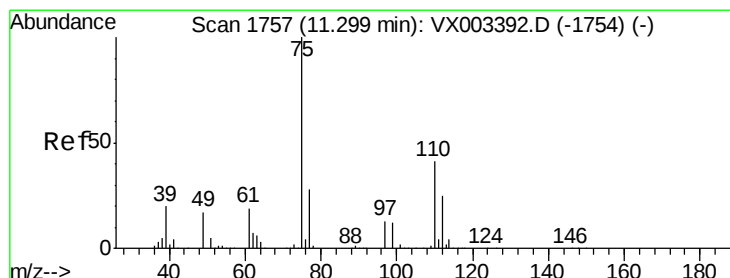
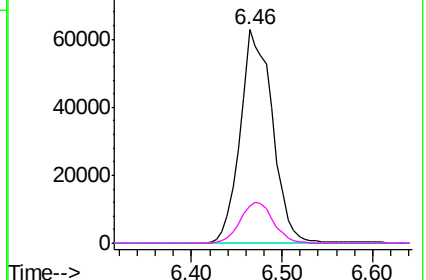
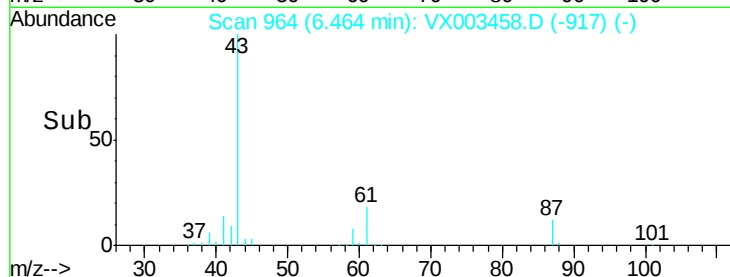
70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 19.8 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003458.D

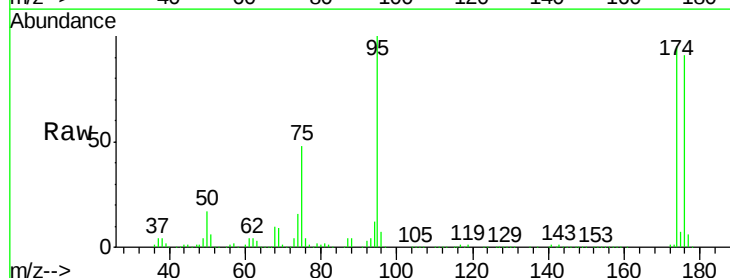
Acq: 18 Jul 2018 20:01

Tgt Ion: 75 Resp: 95373

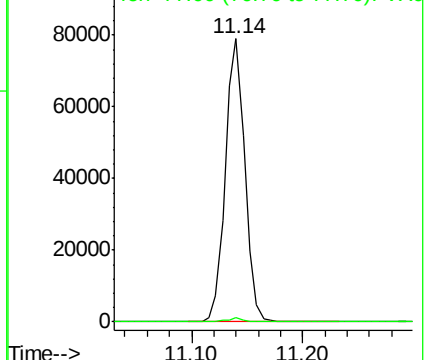
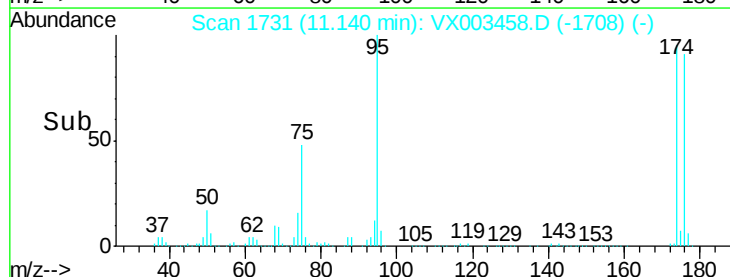
Ion Ratio Lower Upper

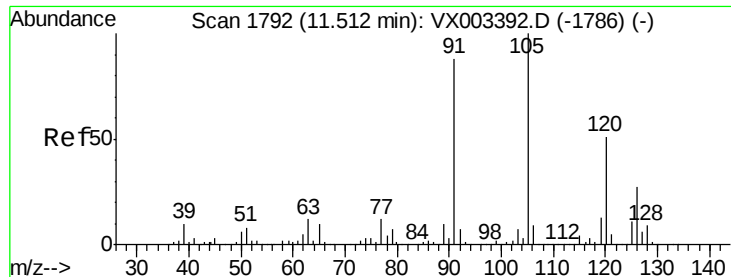
75 100

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

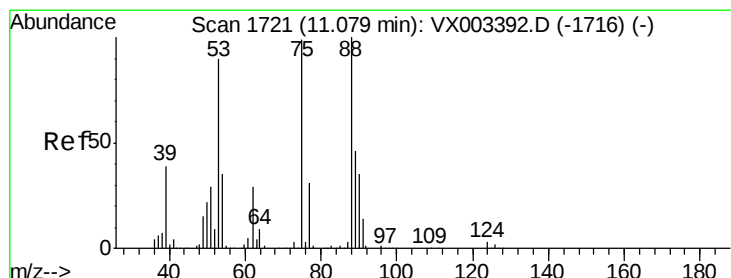
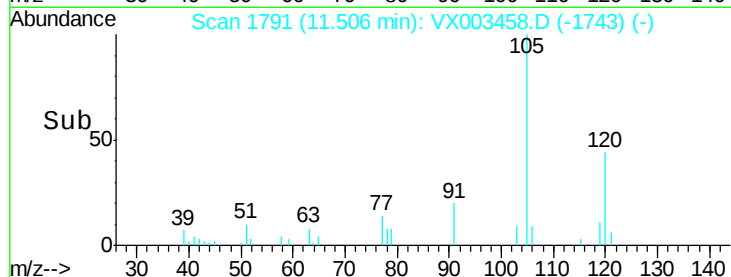
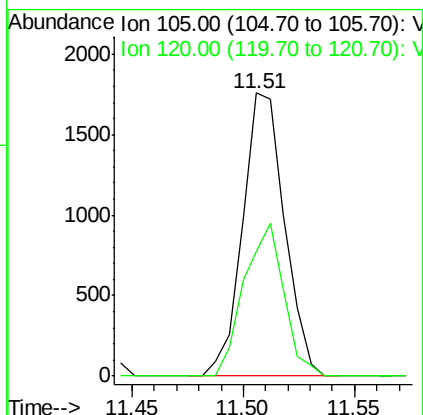
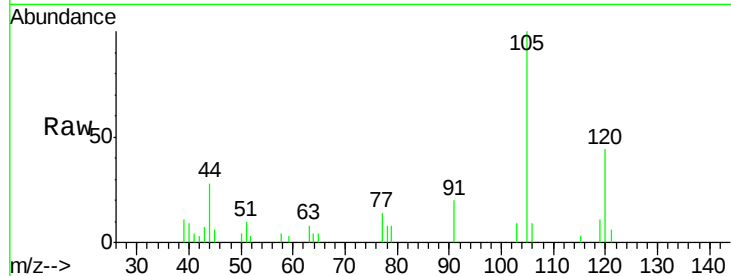




#80
 1,3,5-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 11.51 min Scan# 1791
 Delta R.T. -0.01 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

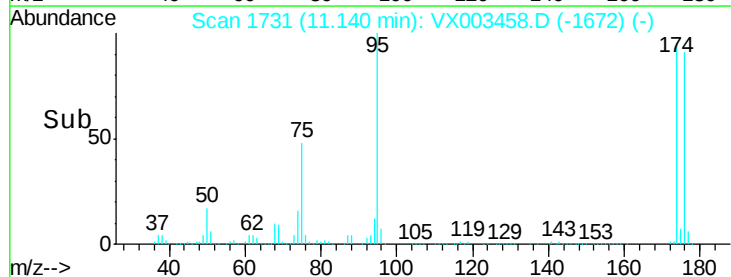
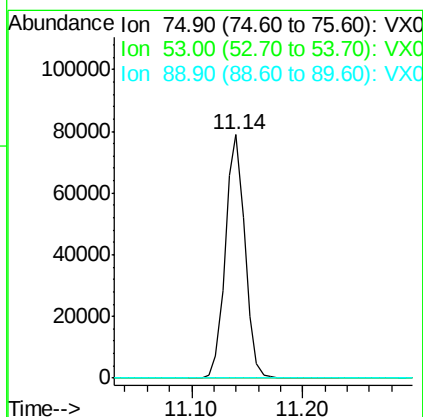
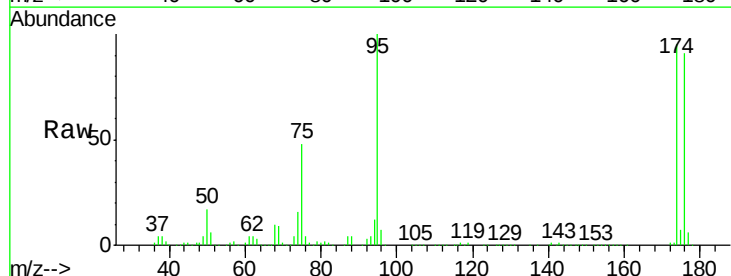
Instrument :
 MSVOA_X
 ClientSampled :

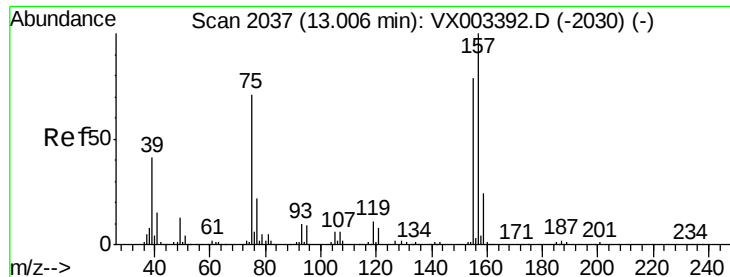
Tot Ion:105 Resp: 2310
 Ion Ratio Lower Upper
 105 100
 120 51.2 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.02 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003458.D
 Acq: 18 Jul 2018 20:01

Tgt Ion: 75 Resp: 95373
 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: 0.38 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003458.D

Acq: 18 Jul 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

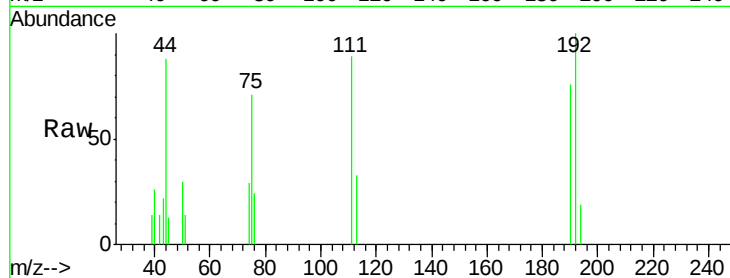
Tot Ion: 75 Resp: 343

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

