

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071818\
 Data File : VX003457.D
 Acq On : 18 Jul 2018 19:34
 Operator : JC/MD
 Sample : PB111206ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 01:44:03 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	263165	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	396866	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	380228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	202006	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	171517	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	5.51	113	149003	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
50) Toluene-d8	8.72	98	575228	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	11.14	95	194539	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	

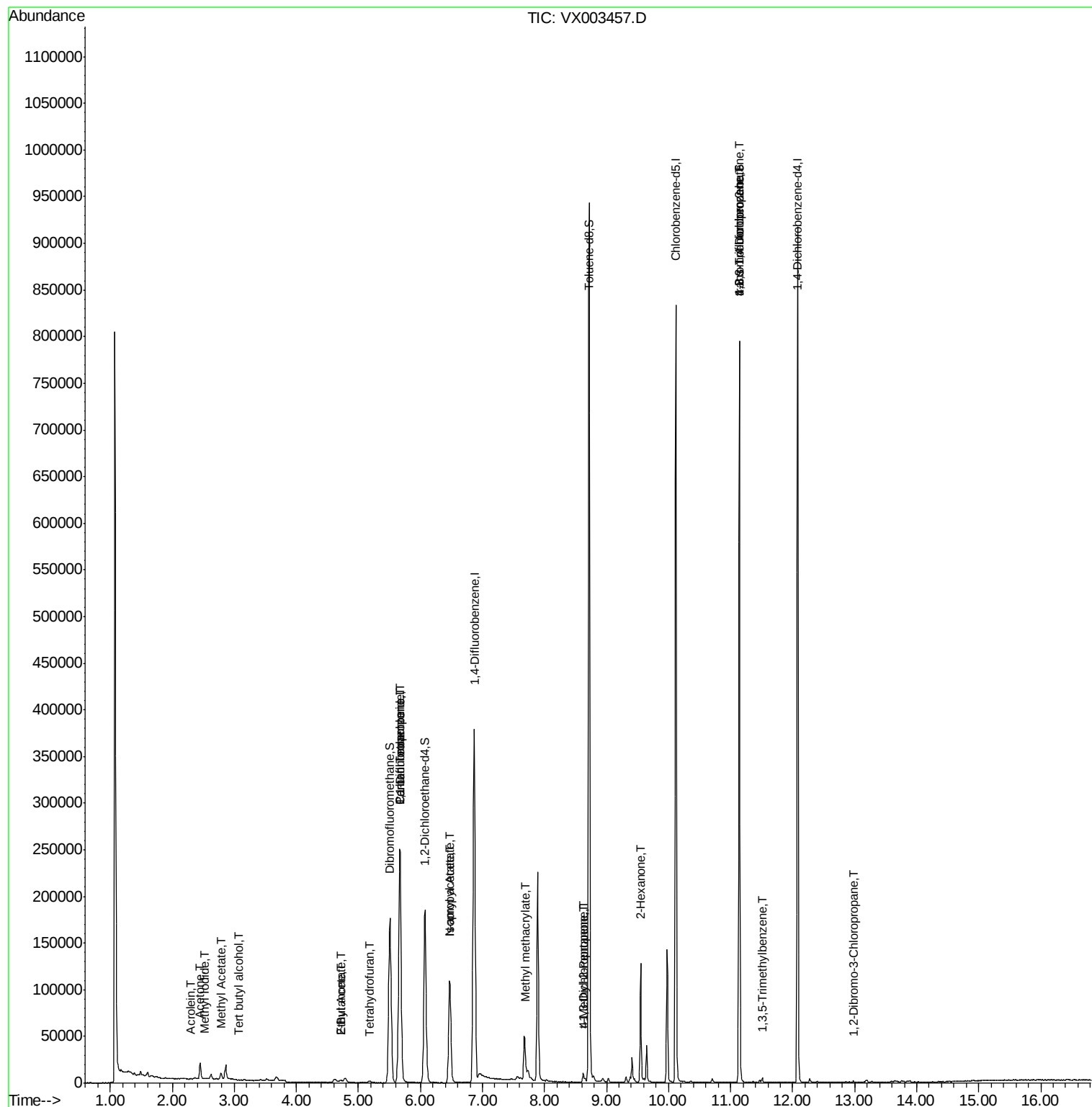
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	1641	Below Cal		95
6) Chloroethane	1.72	64	25	Below Cal	#	43
10) Methyl Iodide	2.52	142	1234	0.39	ug/l #	89
11) Tert butyl alcohol	3.08	59	285	0.37	ug/l #	73
13) Acrolein	2.31	56	93	0.25	ug/l #	1
16) Acetone	2.45	43	18887	13.18	ug/l	91
18) Methyl Acetate	2.78	43	7778	1.67	ug/l #	88
20) Methylene Chloride	2.86	84	6822	Below Cal		88
25) 2-Butanone	4.71	43	4826	2.15	ug/l	99
29) Tetrahydrofuran	5.17	42	1655	1.16	ug/l	94
36) 1,1-Dichloropropene	5.67	75	17206	4.28	ug/l #	49
37) Ethyl Acetate	4.71	43	4826	1.07	ug/l #	70
38) Carbon Tetrachloride	5.67	117	23385	5.72	ug/l #	16
43) Isopropyl Acetate	6.47	43	142955	20.91	ug/l	95
48) Methyl methacrylate	7.69	41	8706	2.50	ug/l #	23
51) 4-Methyl-2-Pentanone	8.62	43	2899	0.64	ug/l #	39
53) t-1,3-Dichloropropene	8.62	75	1595	0.35	ug/l #	54
59) 2-Hexanone	9.55	43	13758	3.98	ug/l #	60
74) N-amyl acetate	6.47	43	142955	22.98	ug/l #	94
76) 1,2,3-Trichloropropane	11.14	75	94305	25.79	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	2318	0.22	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.14	75	94305	83.78	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	283	0.32	ug/l #	1

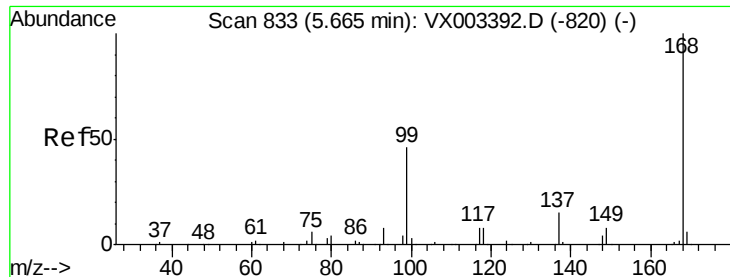
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071818\
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Acq On : 18 Jul 2018 19:34
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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jul 19 01:44:03 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# 833

Delta R.T. 0.00 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

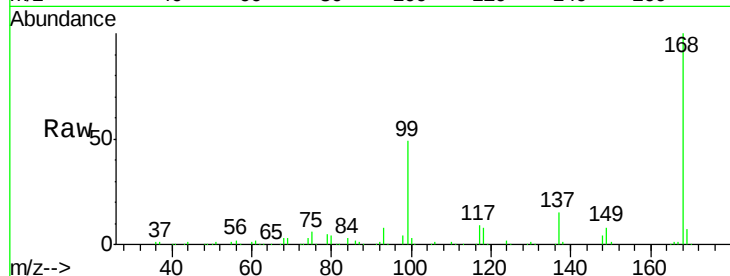
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 263165

Ion Ratio Lower Upper

168 100

99 49.4 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

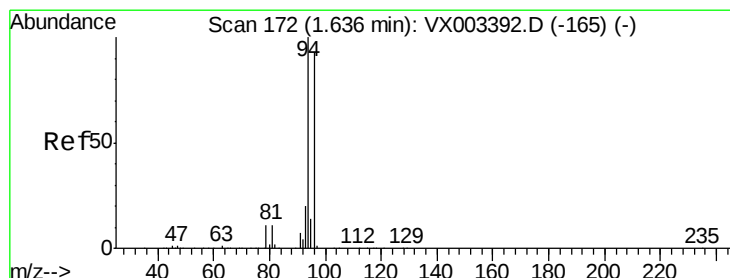
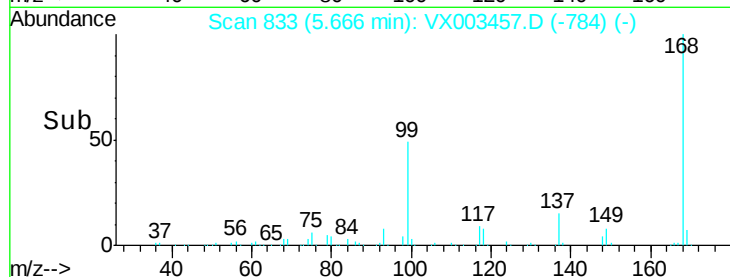
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003457.D

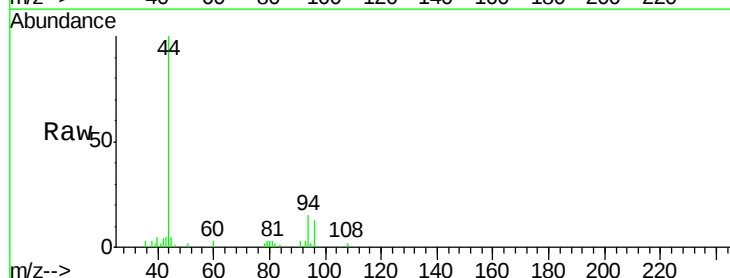
Acq: 18 Jul 2018 19:34

Tgt Ion: 94 Resp: 1641

Ion Ratio Lower Upper

94 100

96 88.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

800

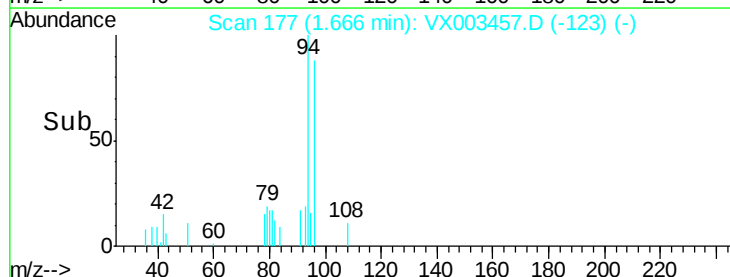
600

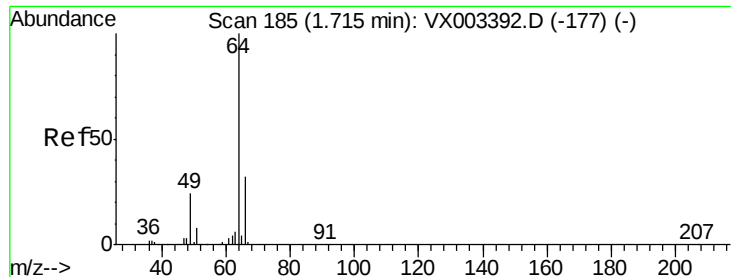
400

200

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :

MSVOA_X

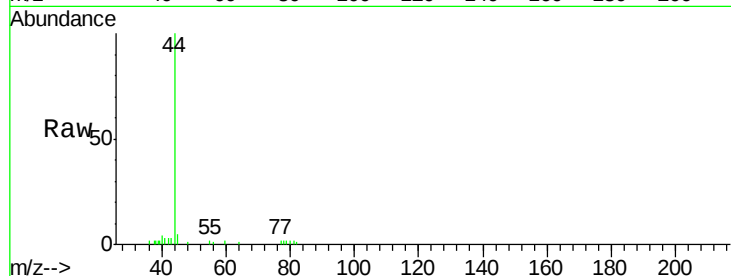
ClientSampleId :

Tot Ion: 64 Resp: 25

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

1.72

60

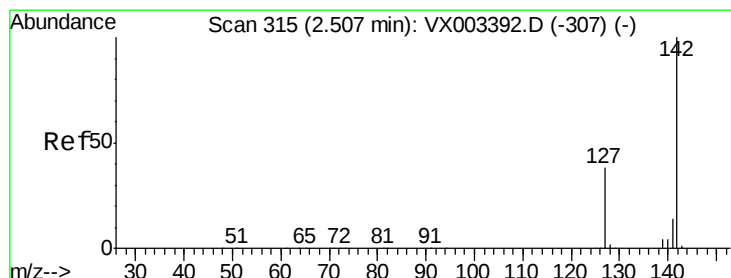
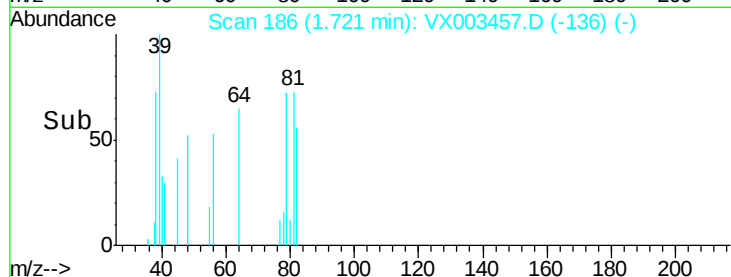
40

20

0

1.70 1.71 1.72 1.73 1.74

Time-->



#10

Methyl Iodide

Concen: 0.39 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

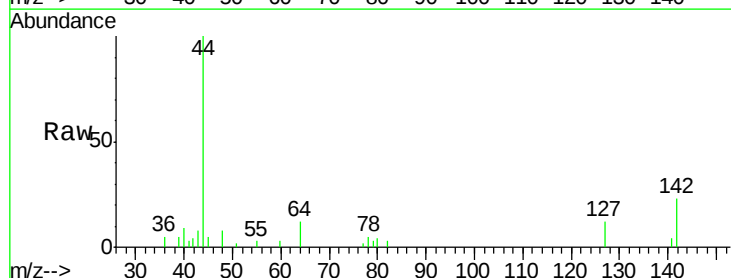
Tgt Ion:142 Resp: 1234

Ion Ratio Lower Upper

142 100

127 38.5 36.6 55.0

141 10.0 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

2.52

600

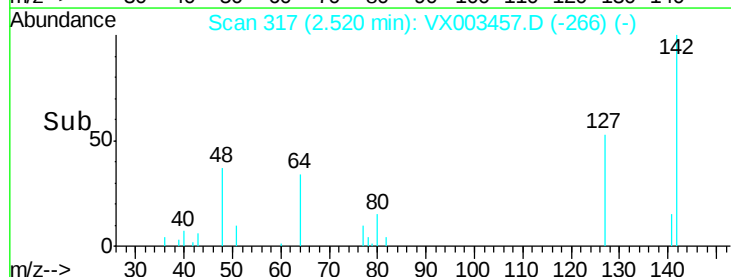
400

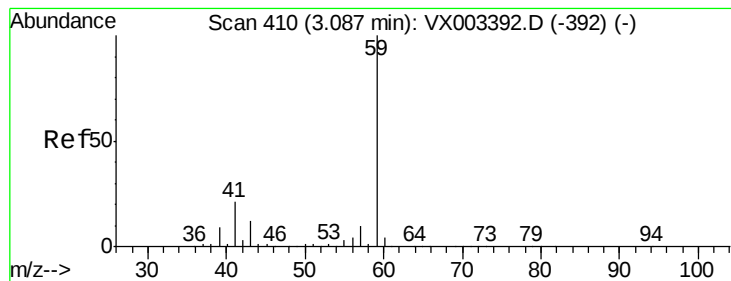
200

0

2.45 2.50 2.55 2.60

Time-->



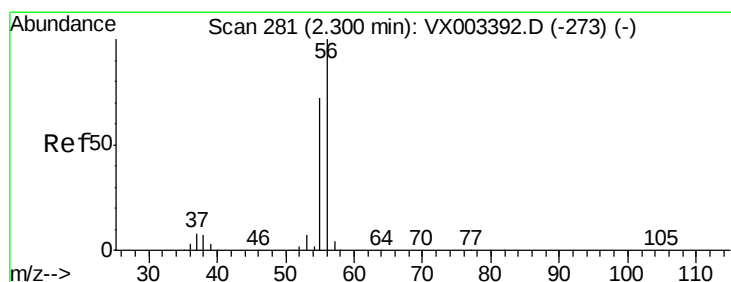
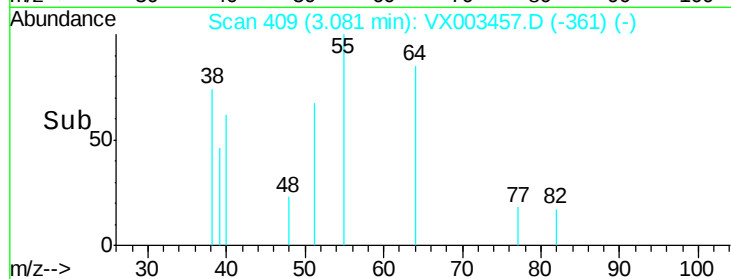
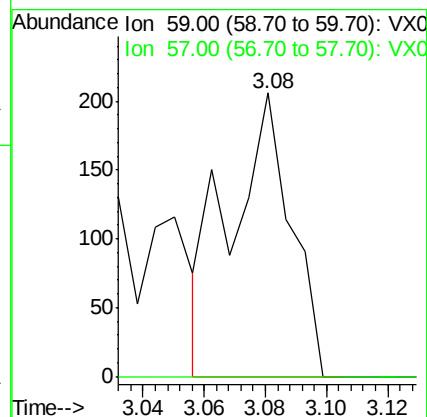
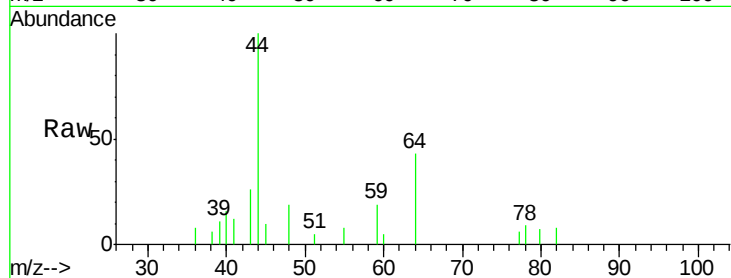


#11

Tert butyl alcohol
Concen: 0.37 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

Instrument :
MSVOA_X
ClientSampled :

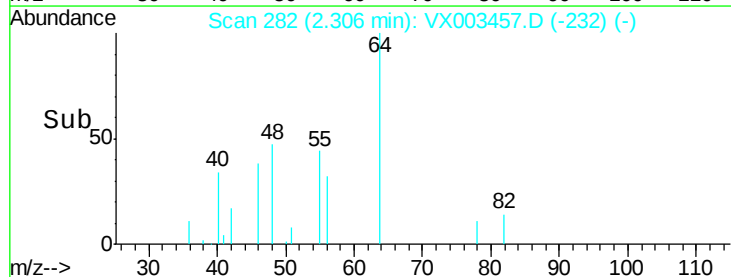
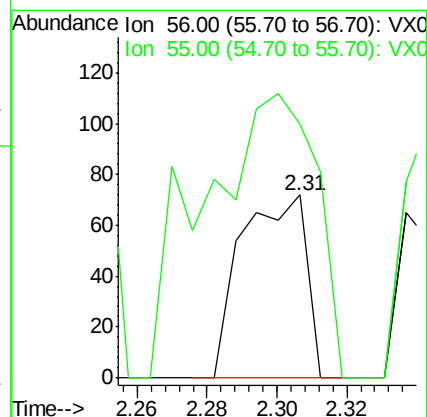
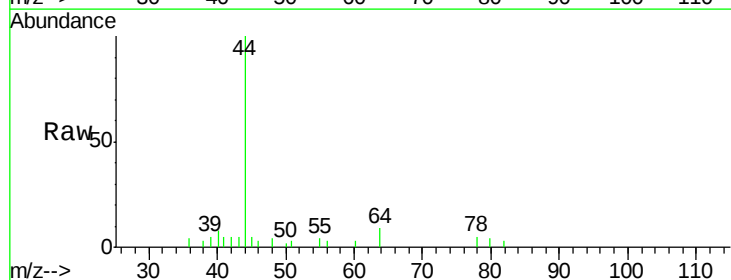
Tot Ion: 59 Resp: 285
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

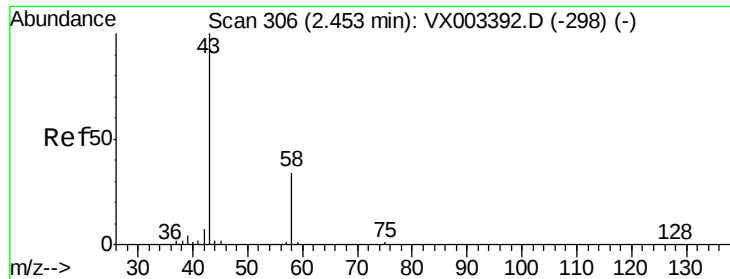


#13

Acrolein
Concen: 0.25 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

Tgt Ion: 56 Resp: 93
Ion Ratio Lower Upper
56 100
55 271.0 57.0 85.4#





#16

Acetone

Concen: 13.18 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :

MSVOA_X

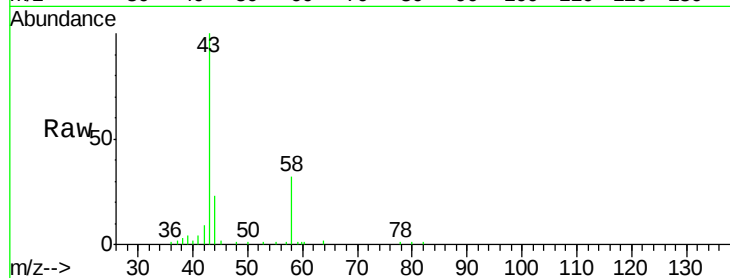
ClientSampleId :

Tot Ion: 43 Resp: 18887

Ion Ratio Lower Upper

43 100

58 32.3 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

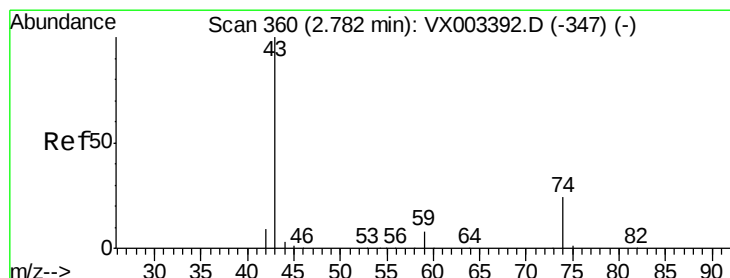
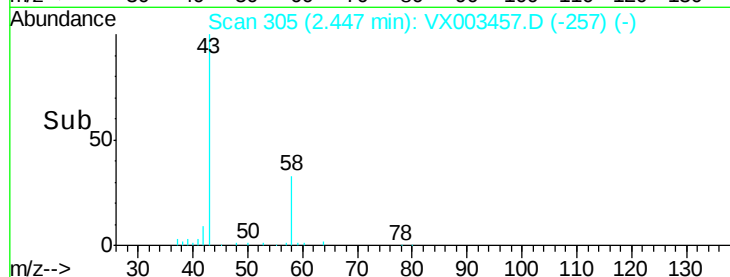
6000

4000

2000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 1.67 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003457.D

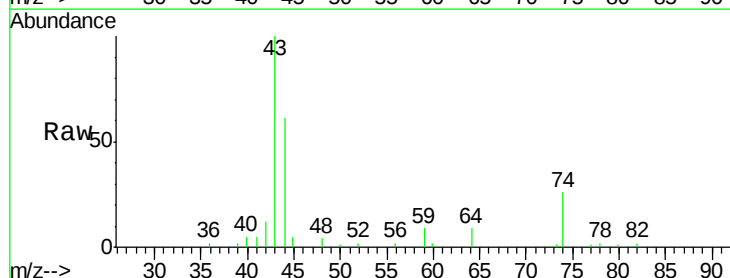
Acq: 18 Jul 2018 19:34

Tgt Ion: 43 Resp: 7778

Ion Ratio Lower Upper

43 100

74 26.5 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

4000

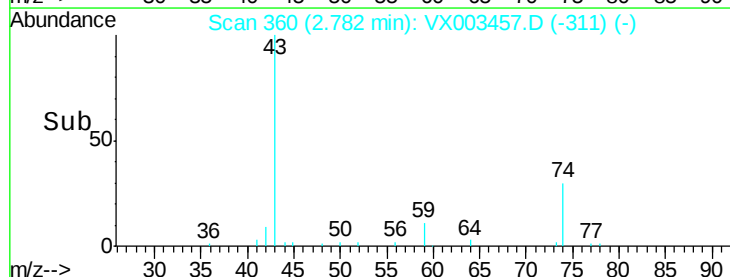
3000

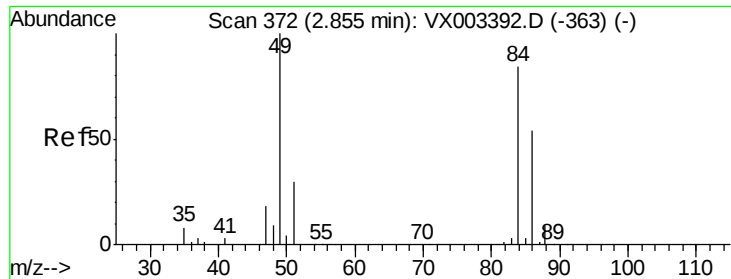
2000

1000

0

Time--> 2.75 2.80 2.85



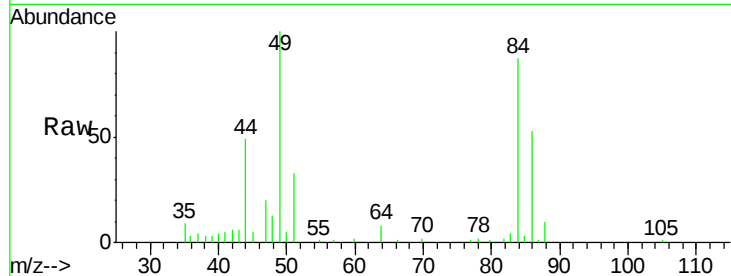


#20

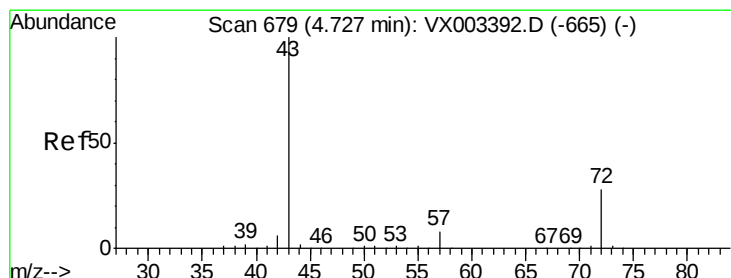
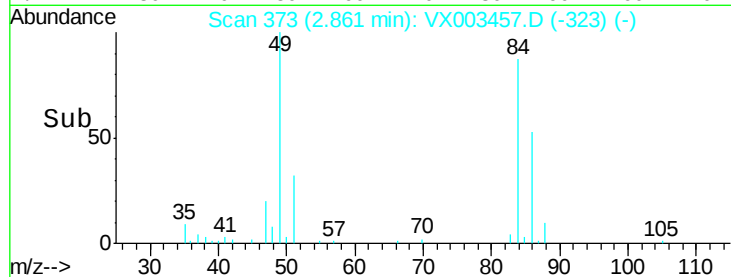
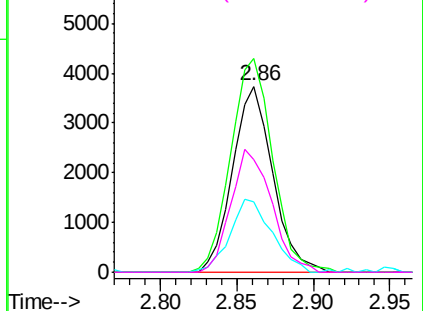
Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 373
 Delta R.T. 0.01 min
 Lab File: VX003457.D
 Acq: 18 Jul 2018 19:34

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 84 Resp: 6822
 Ion Ratio Lower Upper
 84 100
 49 114.7 107.8 161.6
 51 37.7 32.8 49.2
 86 60.7 52.5 78.7



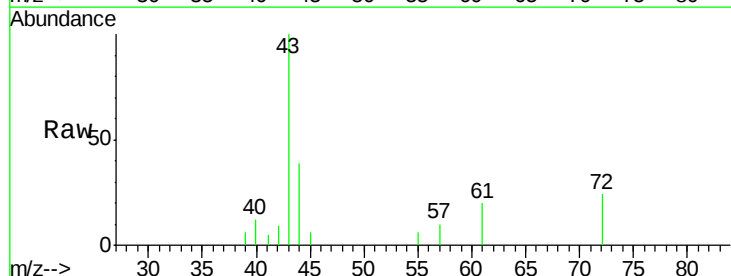
Abundance Ion 83.90 (83.60 to 84.60): VX0
 Ion 48.90 (48.60 to 49.60): VX0
 Ion 50.90 (50.60 to 51.60): VX0
 Ion 85.90 (85.60 to 86.60): VX0



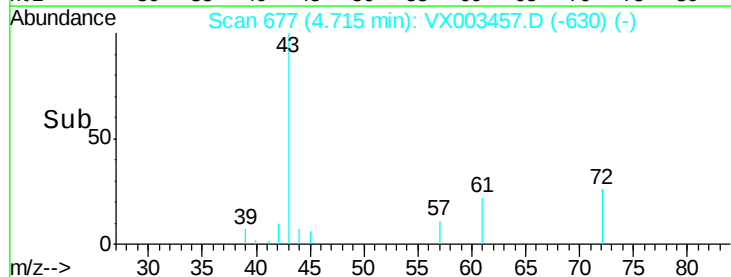
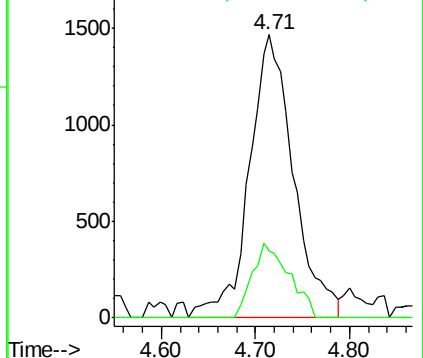
#25

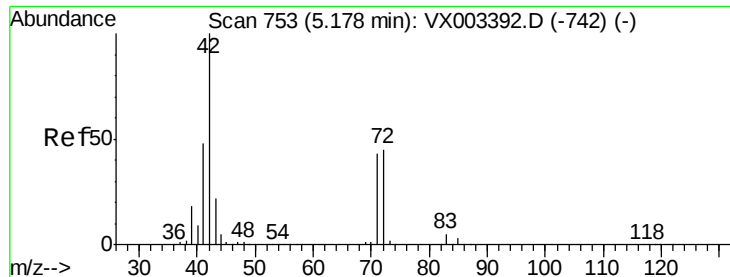
2-Butanone
 Concen: 2.15 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.01 min
 Lab File: VX003457.D
 Acq: 18 Jul 2018 19:34

Tgt Ion: 43 Resp: 4826
 Ion Ratio Lower Upper
 43 100
 72 23.7 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0

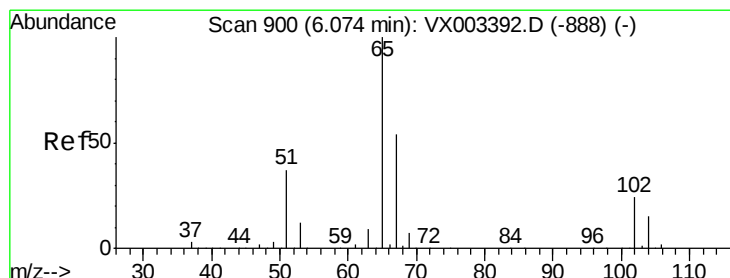
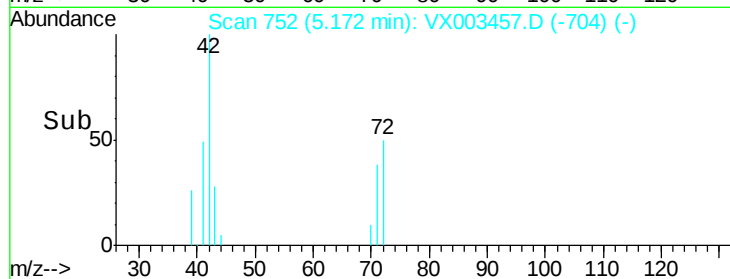
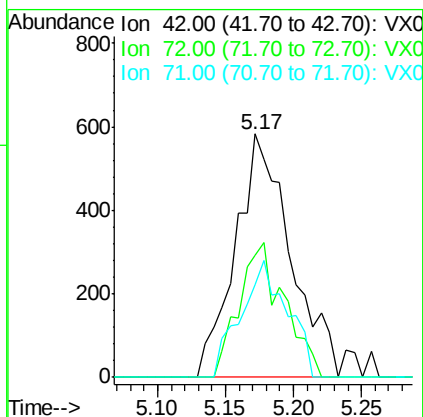
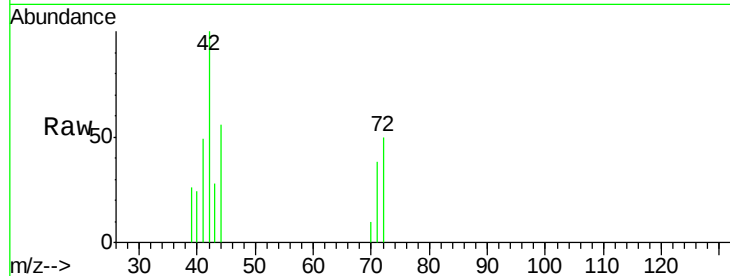




#29
Tetrahydrofuran
Concen: 1.16 ug/l
RT: 5.17 min Scan# 752
Delta R.T. -0.01 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

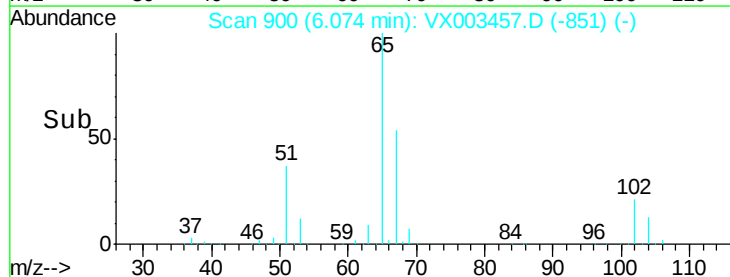
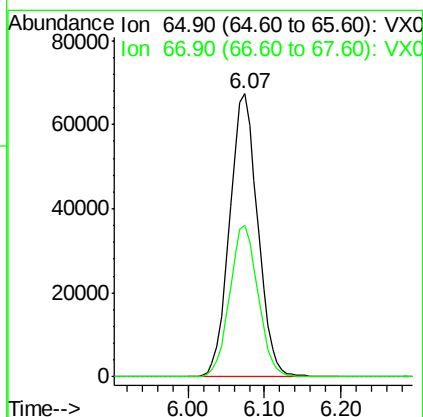
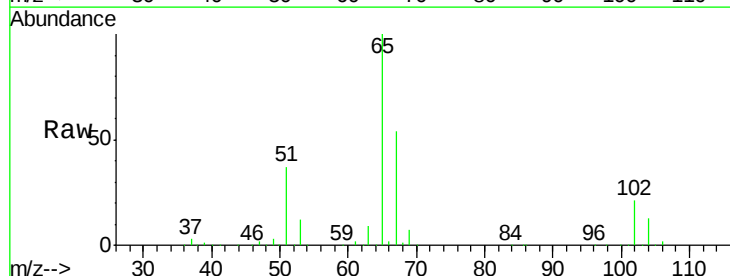
Instrument :
MSVOA_X
ClientSampleId :

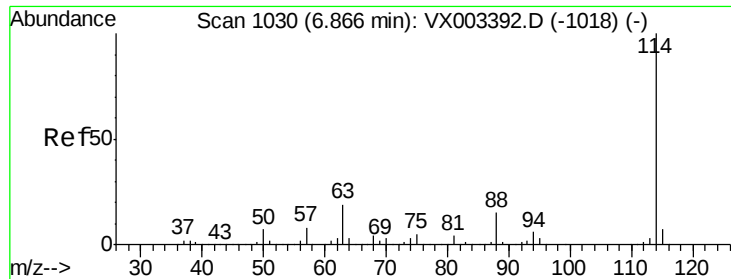
Tot Ion: 42 Resp: 1655
Ion Ratio Lower Upper
42 100
72 45.2 32.0 48.0
71 40.2 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 49.77 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

Tgt Ion: 65 Resp: 171517
Ion Ratio Lower Upper
65 100
67 53.9 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: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

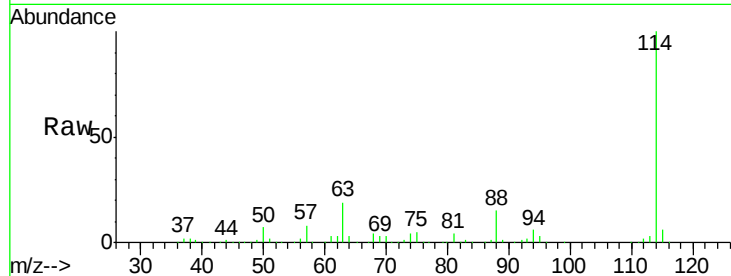
Tot Ion:114 Resp: 396866

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

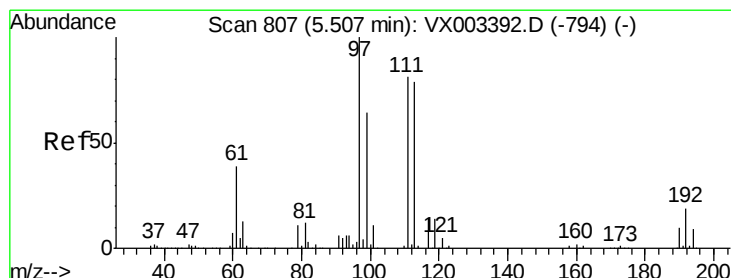
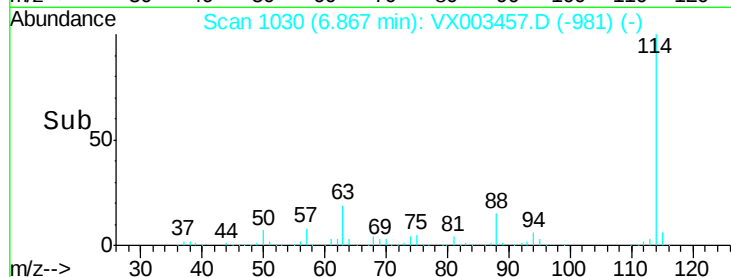
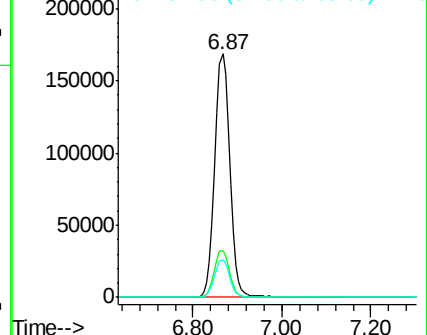
88 15.4 0.0 30.0



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: 46.40 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

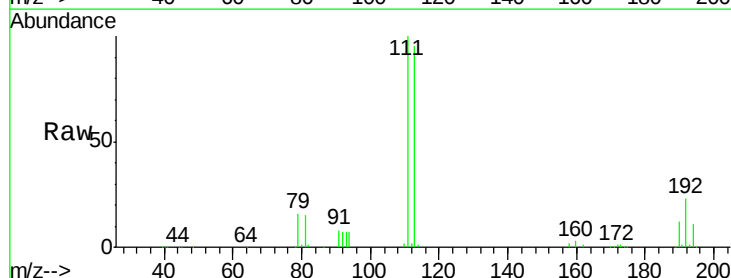
Tgt Ion:113 Resp: 149003

Ion Ratio Lower Upper

113 100

111 103.8 81.4 122.0

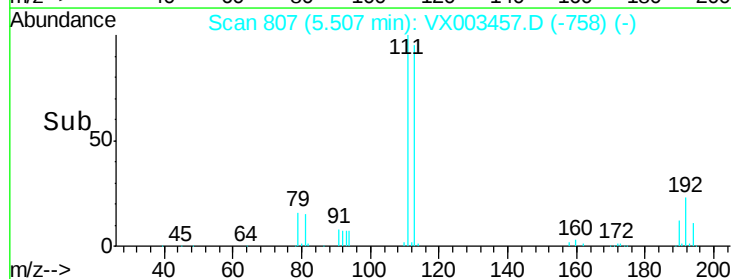
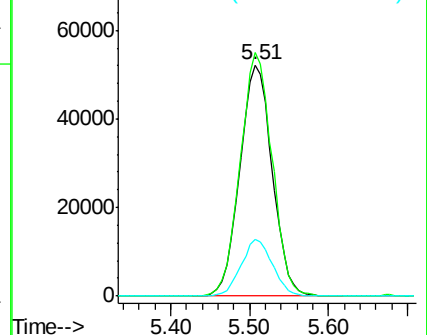
192 23.8 19.1 28.7

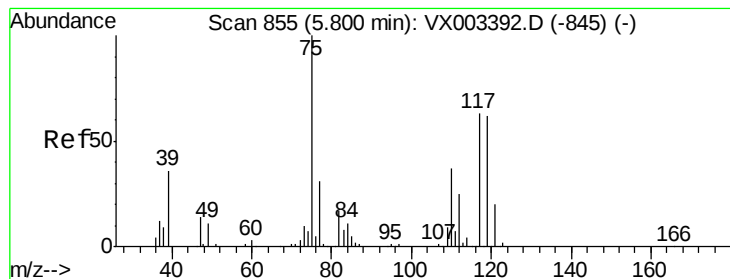


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.28 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

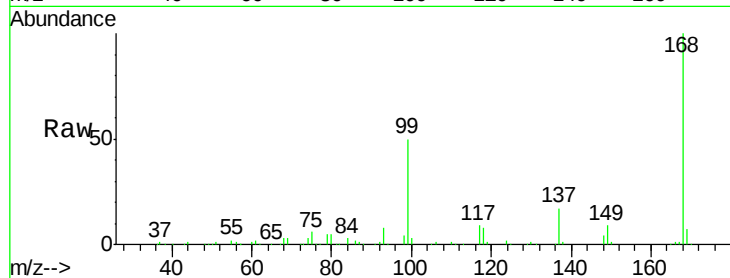
Tot Ion: 75 Resp: 17206

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.4#

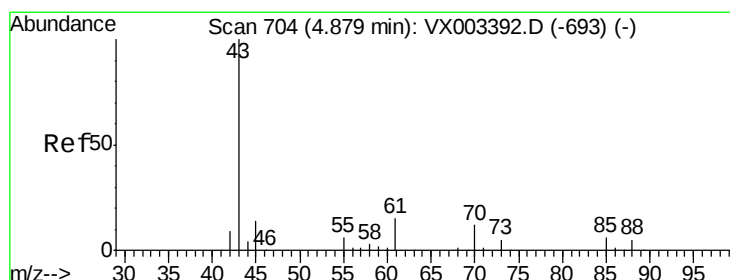
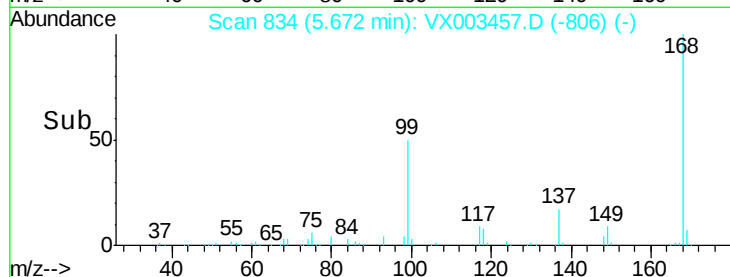
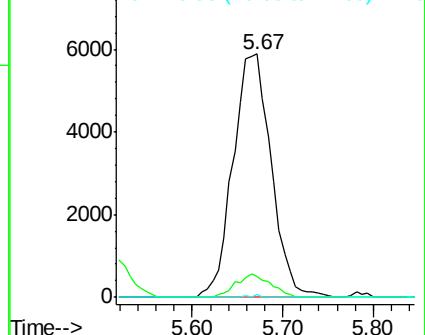
77 0.1 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 1.07 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.16 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

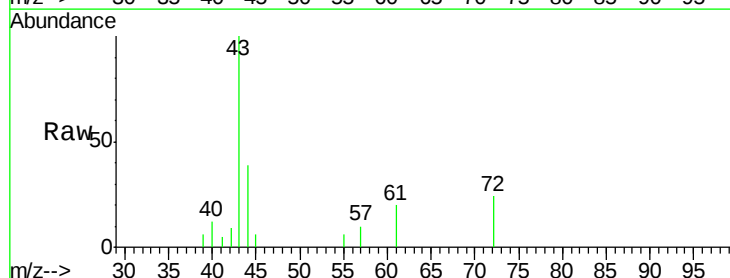
Tgt Ion: 43 Resp: 4826

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

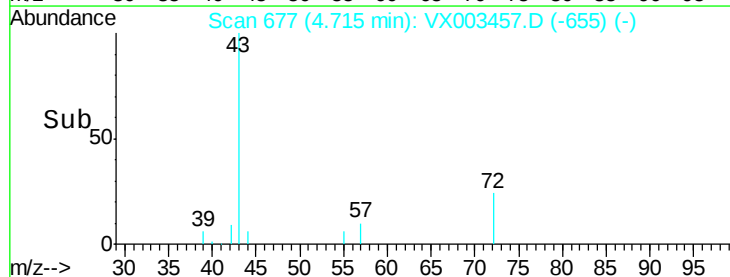
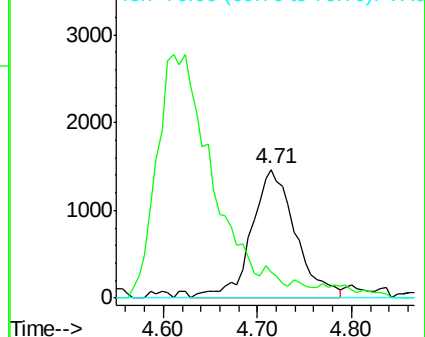
70 0.0 7.6 11.4#

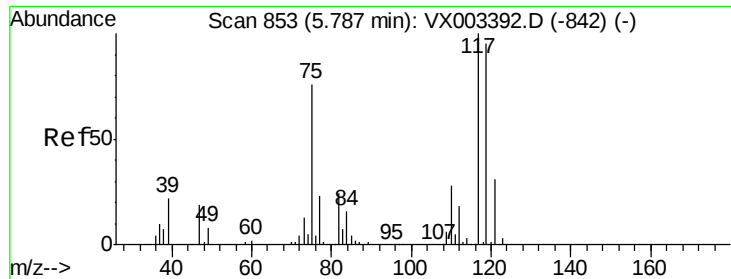


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.72 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :

MSVOA_X

ClientSampled :

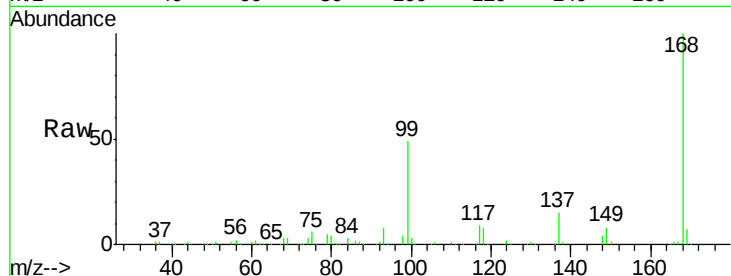
Tot Ion:117 Resp: 23385

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

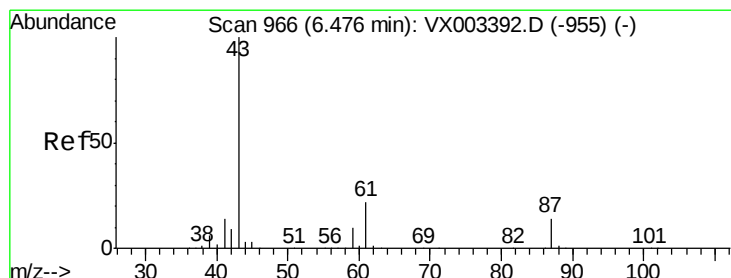
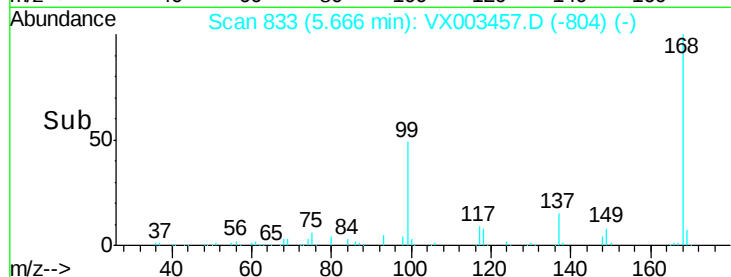
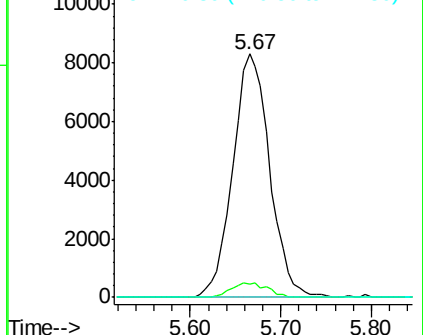
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 20.91 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

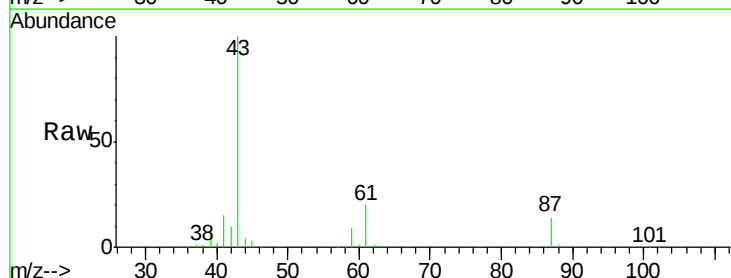
Tgt Ion: 43 Resp: 142955

Ion Ratio Lower Upper

43 100

61 20.5 14.4 21.6

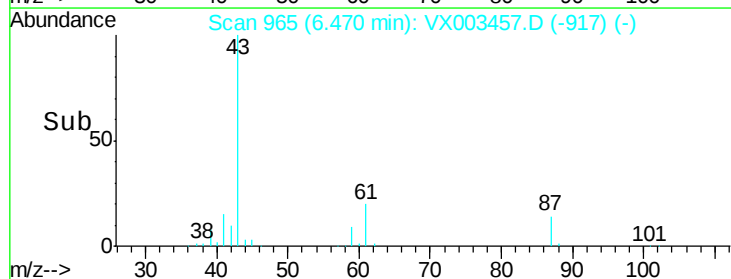
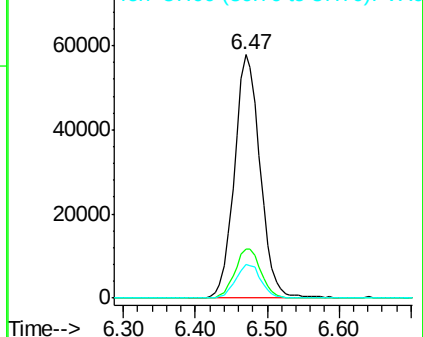
87 13.7 9.5 14.3

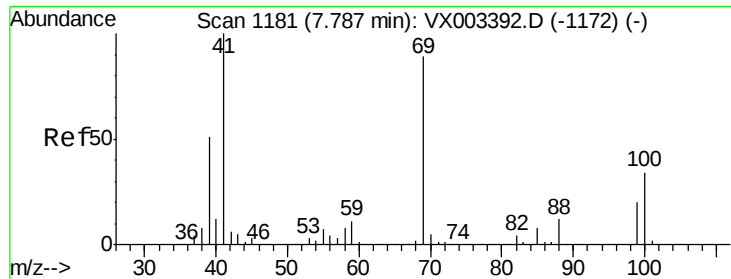


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.50 ug/l

RT: 7.69 min Scan# 1165

Delta R.T. -0.10 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :
MSVOA_X
ClientSampled :

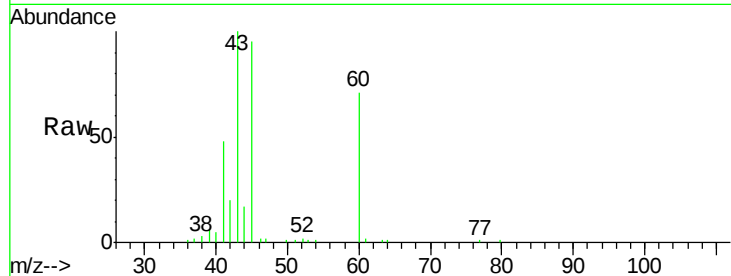
Tot Ion: 41 Resp: 8706

Ion Ratio Lower Upper

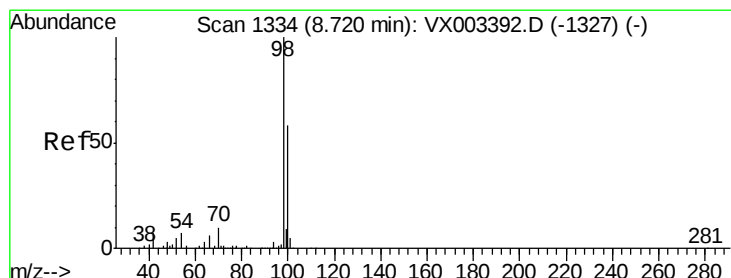
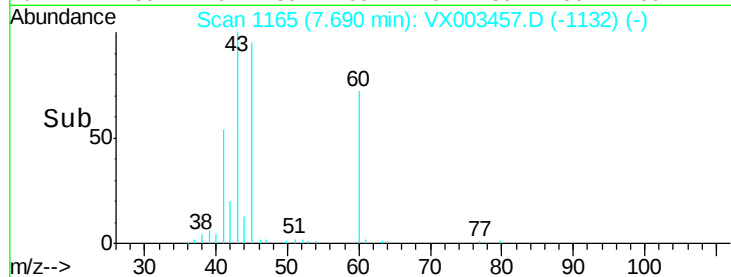
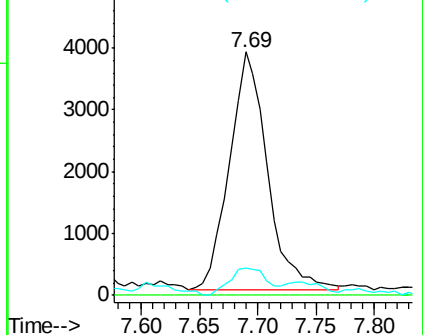
41 100

69 0.0 59.1 88.7#

39 11.6 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: 48.54 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003457.D

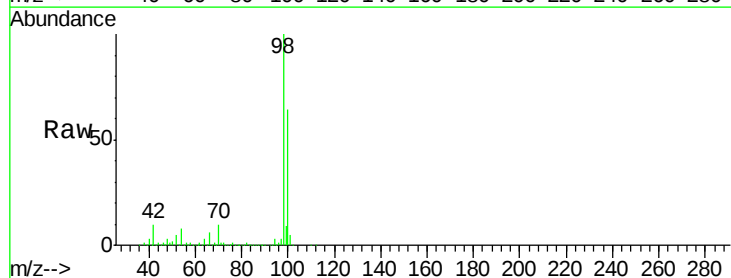
Acq: 18 Jul 2018 19:34

Tgt Ion: 98 Resp: 575228

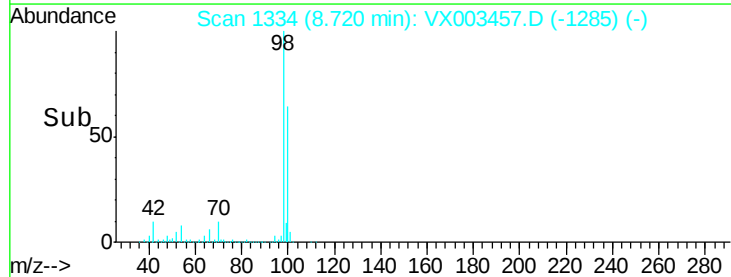
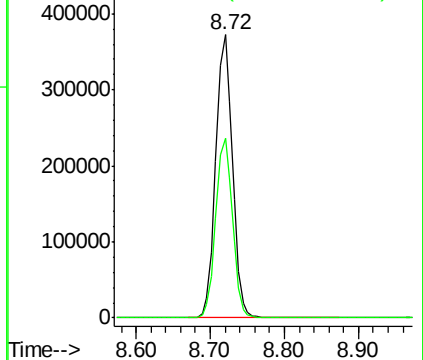
Ion Ratio Lower Upper

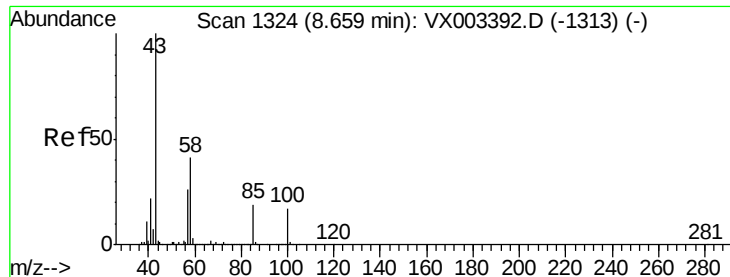
98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.64 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. -0.04 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :

MSVOA_X

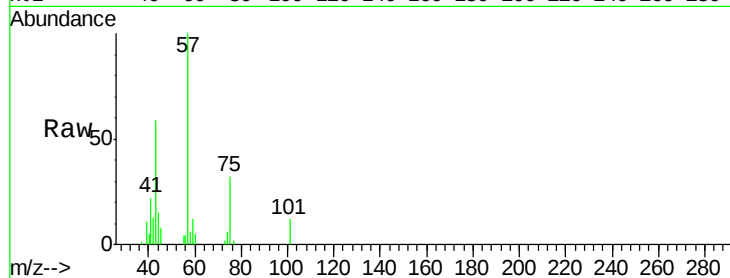
ClientSampled :

Tot Ion: 43 Resp: 2899

Ion Ratio Lower Upper

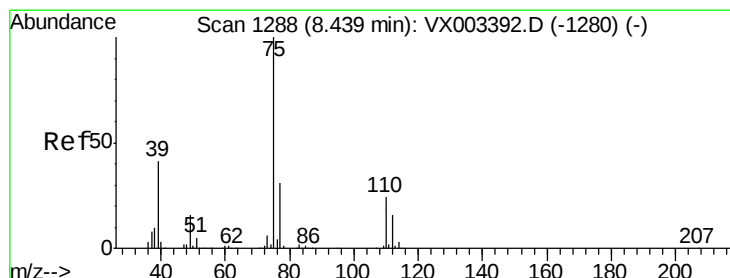
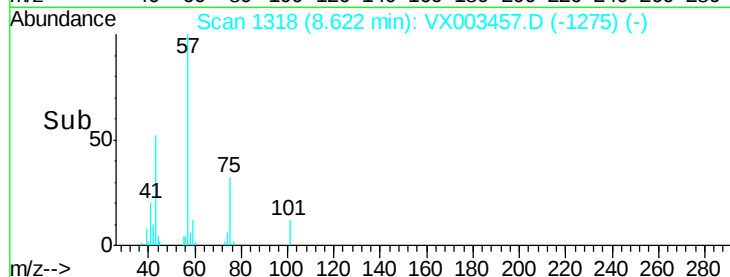
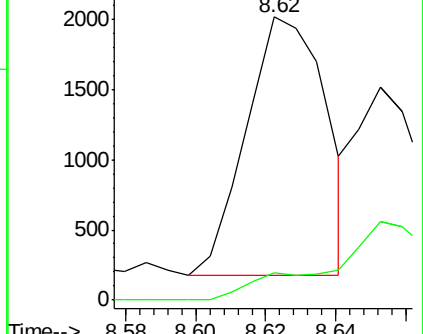
43 100

58 0.0 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 0.35 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. 0.18 min

Lab File: VX003457.D

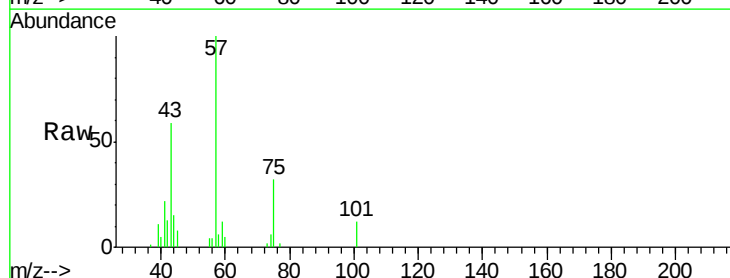
Acq: 18 Jul 2018 19:34

Tgt Ion: 75 Resp: 1595

Ion Ratio Lower Upper

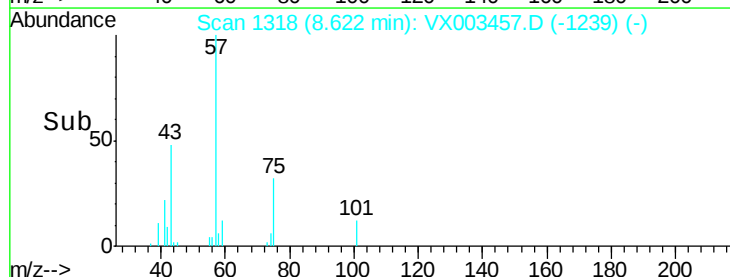
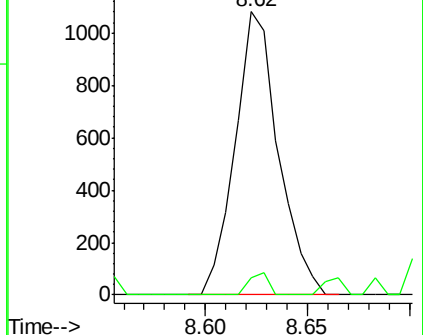
75 100

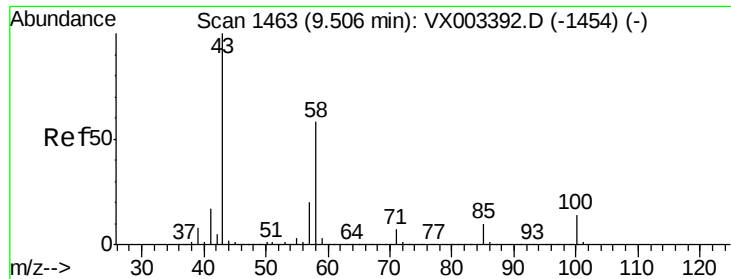
77 6.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

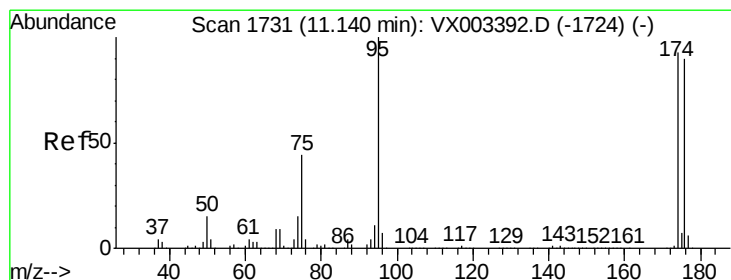
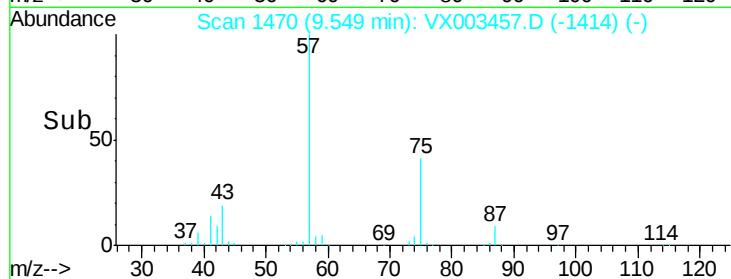
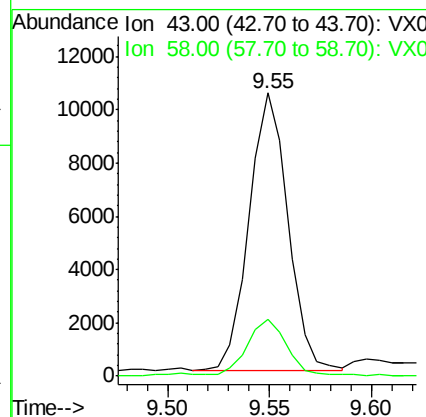
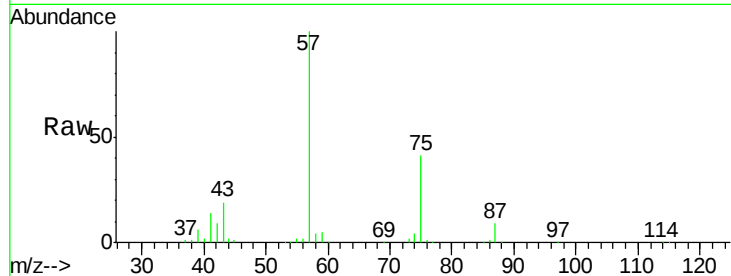




#59
2-Hexanone
Concen: 3.98 ug/l
RT: 9.55 min Scan# 1470
Delta R.T. 0.04 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

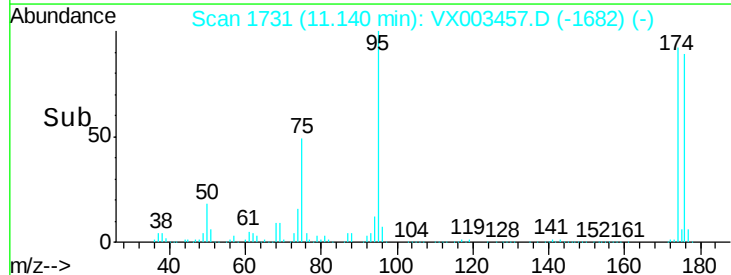
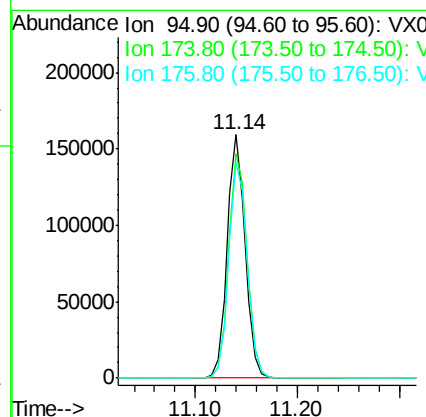
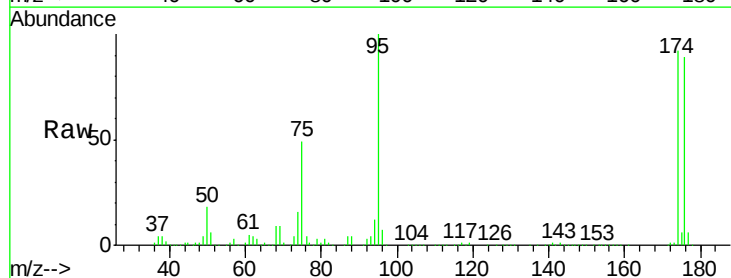
Instrument :
MSVOA_X
ClientSampleId :

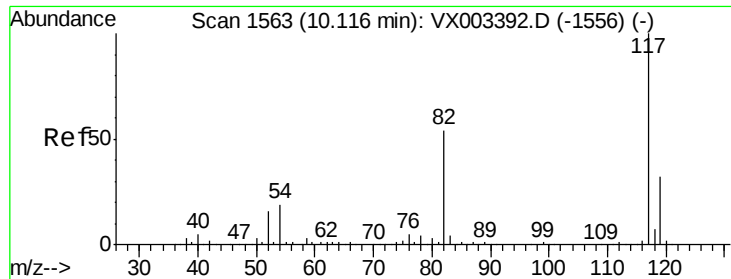
Tot Ion: 43 Resp: 13758
Ion Ratio Lower Upper
43 100
58 21.7 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 45.98 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

Tgt Ion: 95 Resp: 194539
Ion Ratio Lower Upper
95 100
174 94.7 0.0 187.4
176 90.9 0.0 181.0

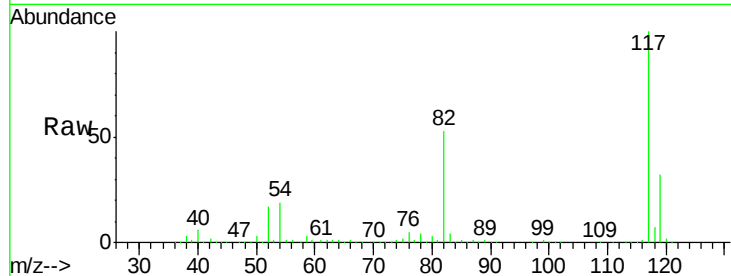




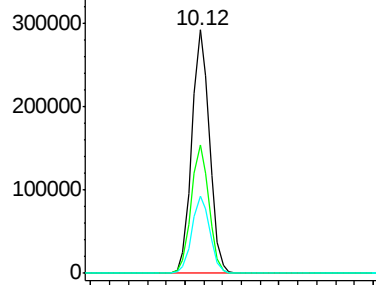
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

Instrument :
MSVOA_X
ClientSampleId :

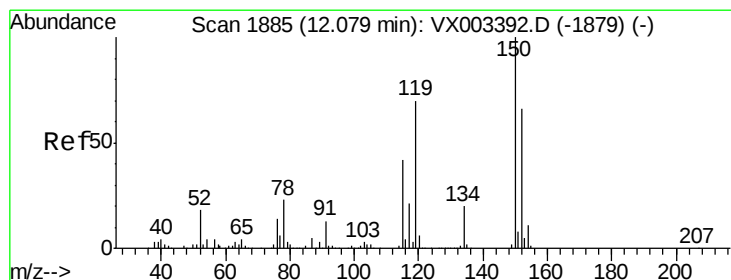
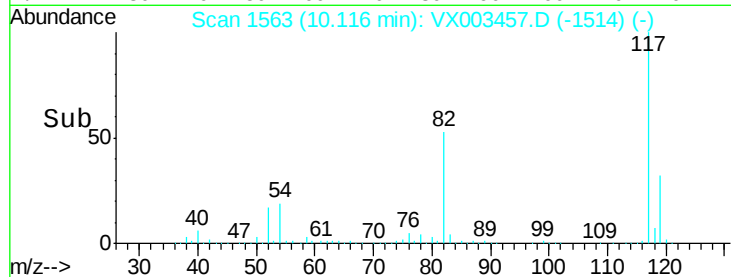
Tot Ion:117 Resp: 380228
Ion Ratio Lower Upper
117 100
82 52.8 45.0 67.4
119 31.8 25.8 38.6



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

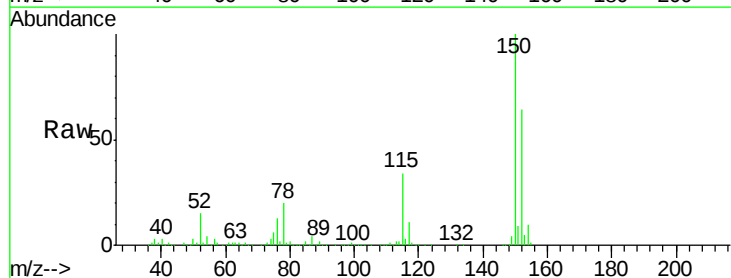


Time--> 10.00 10.10 10.20

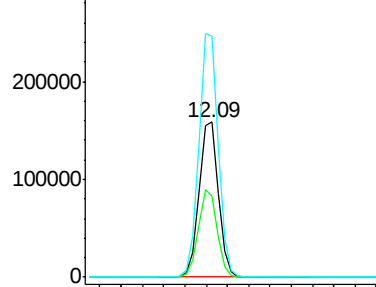


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003457.D
Acq: 18 Jul 2018 19:34

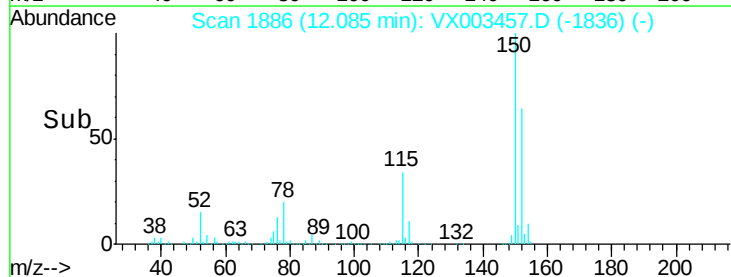
Tgt Ion:152 Resp: 202006
Ion Ratio Lower Upper
152 100
115 54.9 40.1 120.2
150 157.2 0.0 347.2

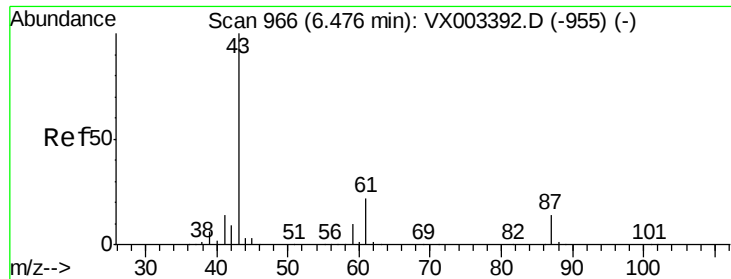


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time--> 12.00 12.10 12.20





#74

N-amvl acetate

Concen: 22.98 ug/l

RT: 6.47 min Scan# 965

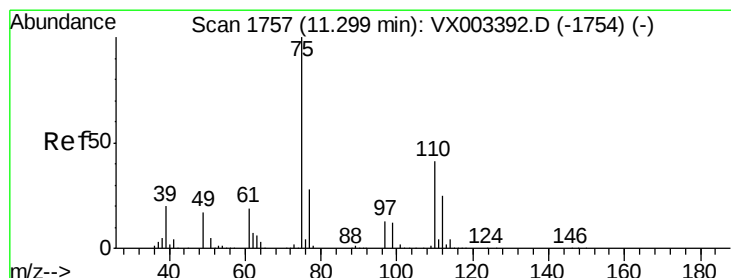
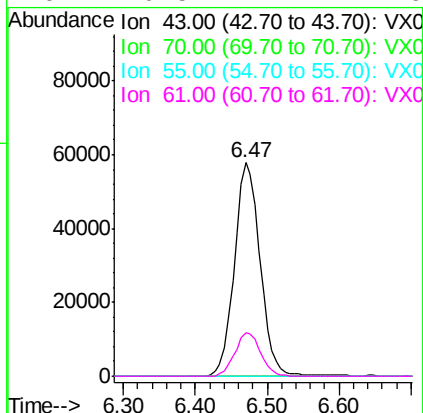
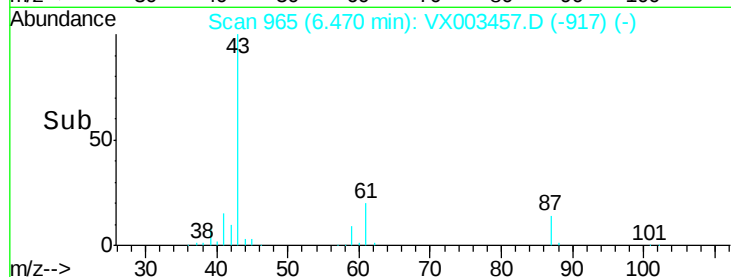
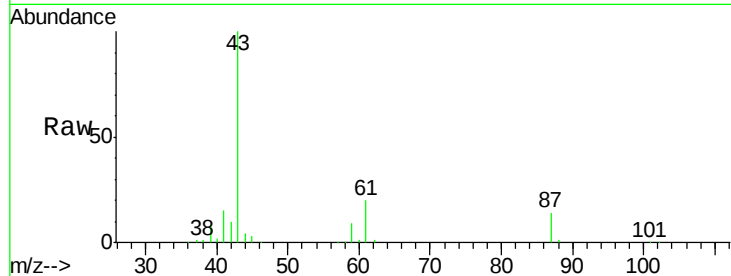
Delta R.T. -0.01 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	43	Resp:	142955
Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.0	0.0
55	0.0	0.0	0.0#
61	20.5	14.4	21.6



#76

1,2,3-Trichloropropane

Concen: 25.79 ug/l

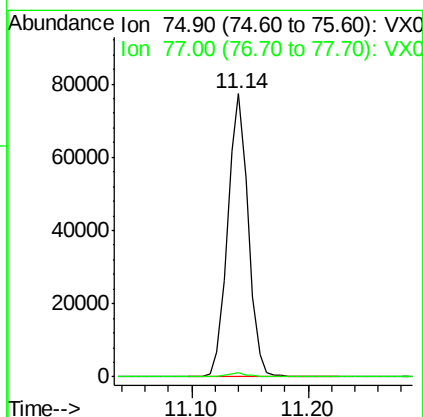
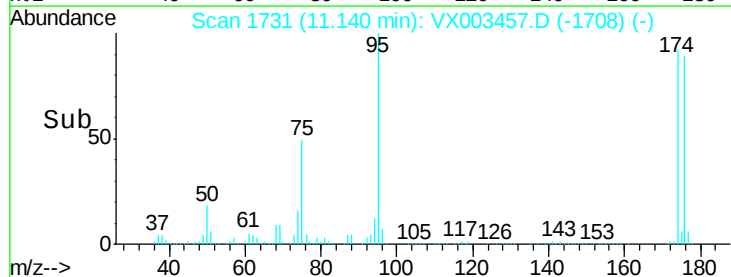
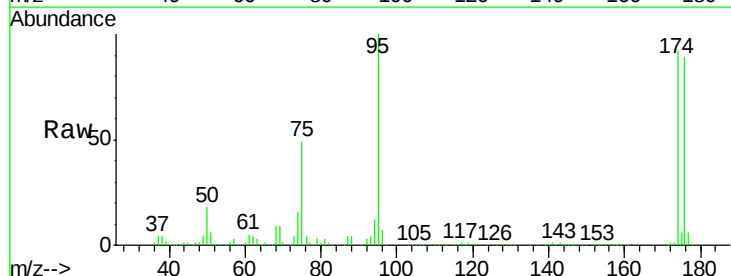
RT: 11.14 min Scan# 1731

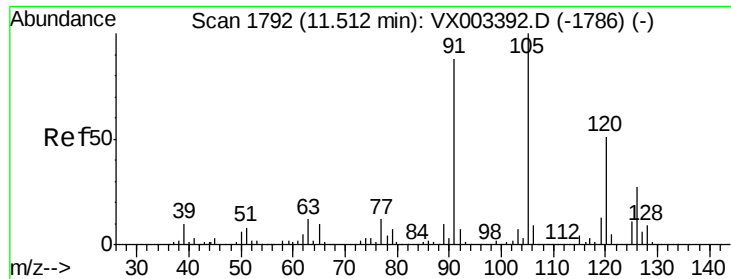
Delta R.T. -0.16 min

Lab File: VX003457.D

Acq: 18 Jul 2018 19:34

Tgt Ion:	75	Resp:	94305
Ion	Ratio	Lower	Upper
75	100		
77	1.4	22.8	68.3#

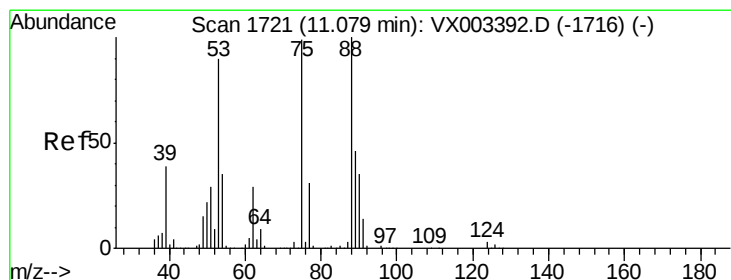
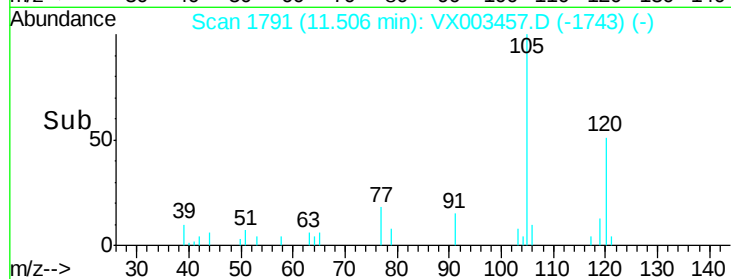
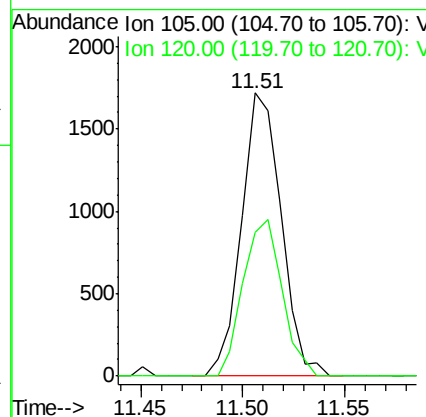
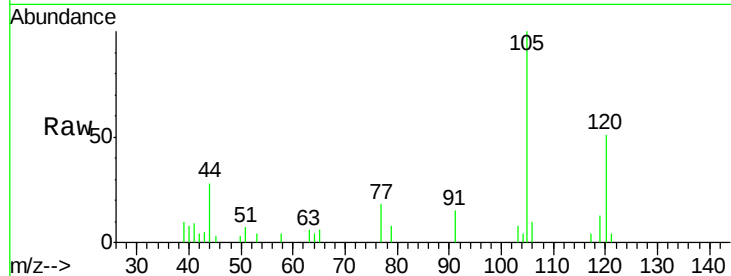




#80
 1,3,5-Trimethylbenzene
 Concen: 0.22 ug/l
 RT: 11.51 min Scan# 1791
 Delta R.T. -0.01 min
 Lab File: VX003457.D
 Acq: 18 Jul 2018 19:34

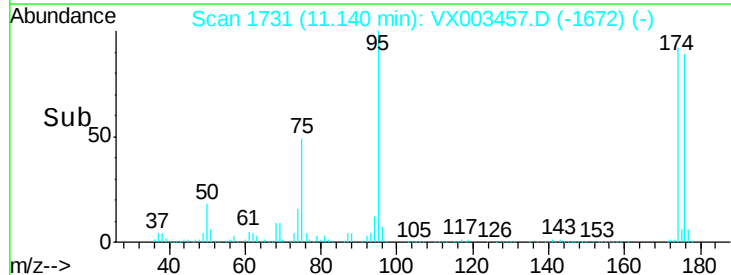
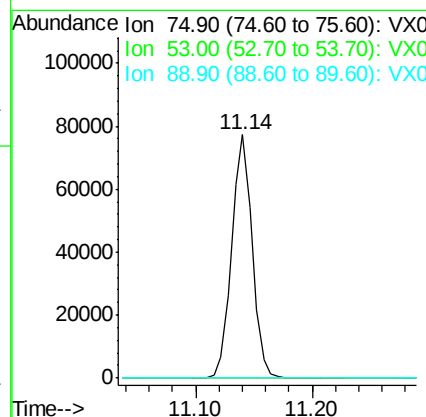
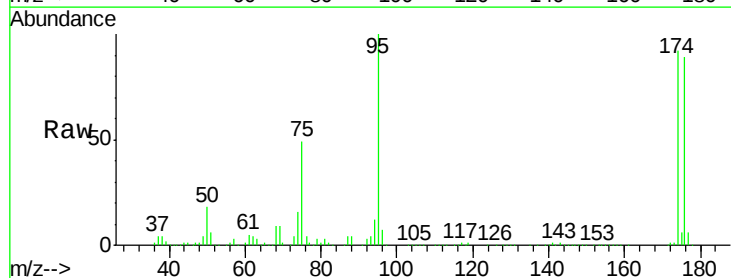
Instrument :
 MSVOA_X
 ClientSampleId :

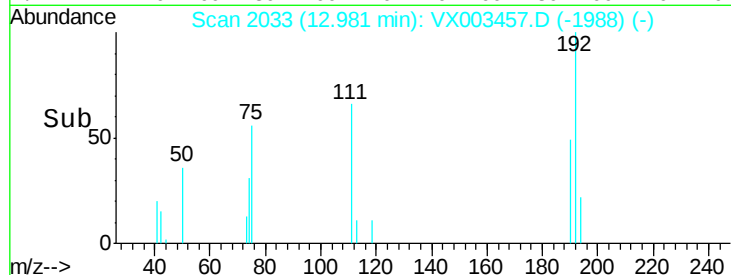
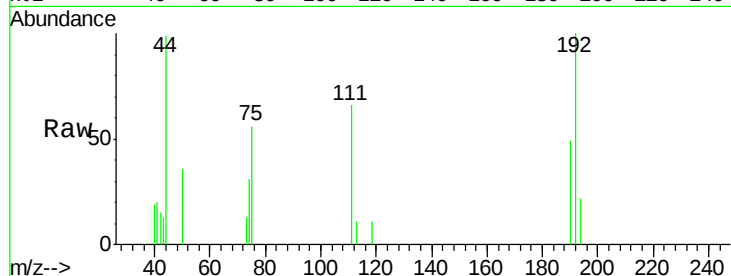
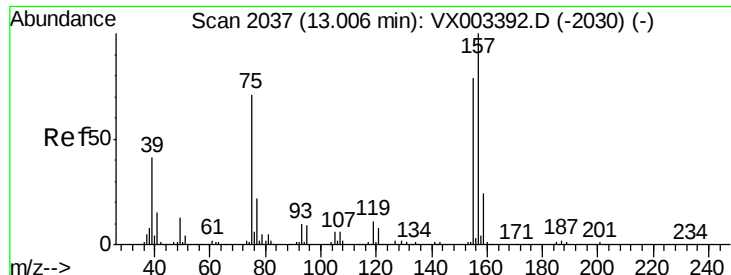
Tot Ion:105 Resp: 2318
 Ion Ratio Lower Upper
 105 100
 120 54.4 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.78 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003457.D
 Acq: 18 Jul 2018 19:34

Tgt Ion: 75 Resp: 94305
 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: 0.32 ug/l
 RT: 12.98 min Scan# 2033
 Delta R.T. -0.02 min
 Lab File: VX003457.D
 Acq: 18 Jul 2018 19:34

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 283
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.8 137.4#
 157 0.0 60.1 180.3#

