

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002616.D
 Acq On : 16 Jun 2018 00:08
 Operator : JC/MD
 Sample : J3467-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-07-061118

Quant Time: Jun 16 03:50:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	192766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	279039	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	255949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	135406	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	134908	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	
35) Dibromofluoromethane	5.51	113	100995	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	
50) Toluene-d8	8.72	98	402213	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
62) 4-Bromofluorobenzene	11.14	95	133874	41.78	ug/l	0.00
Spiked Amount			Recovery	=	83.56%	

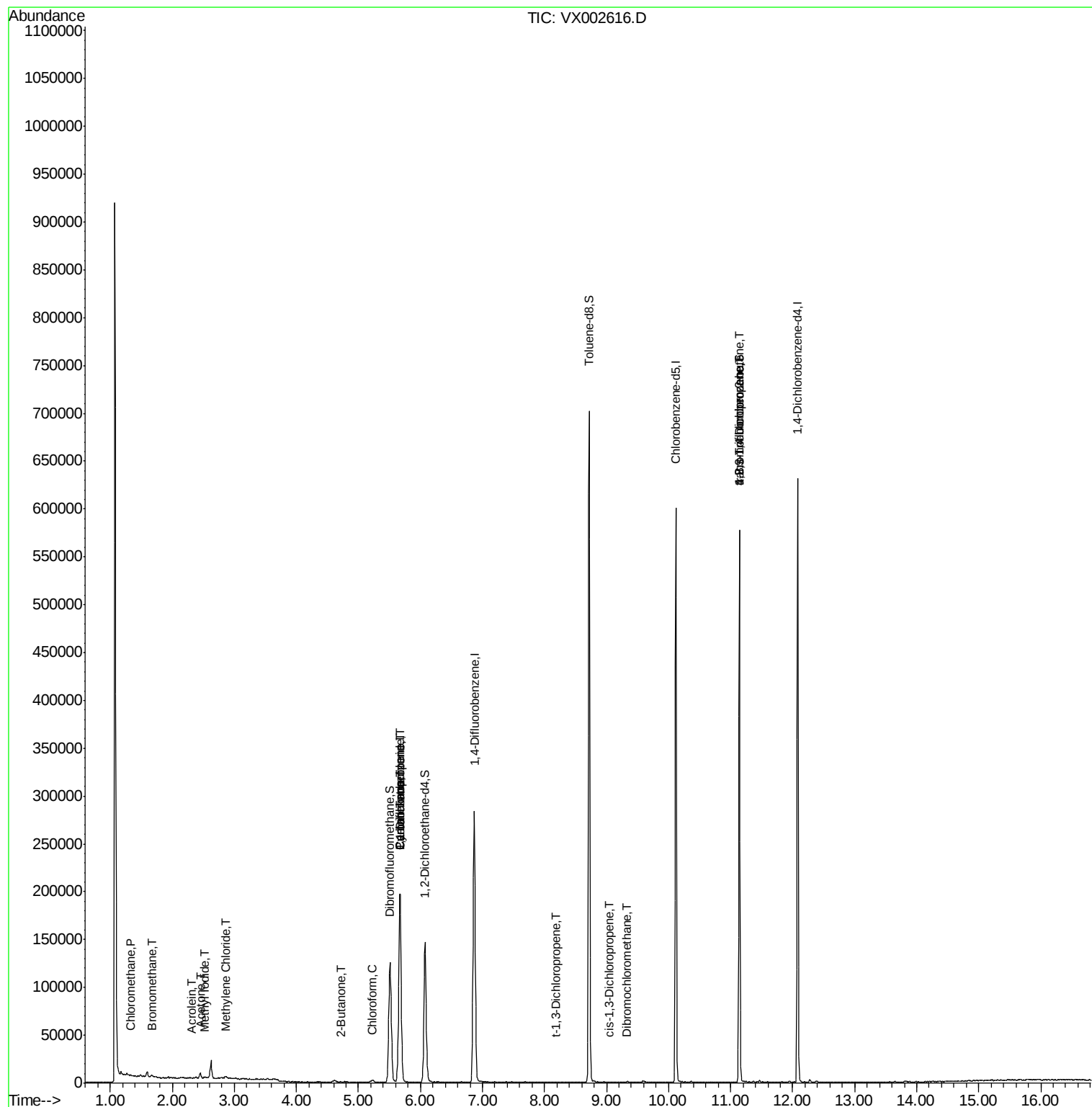
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	672	0.28	ug/l	96
5) Bromomethane	1.67	94	1174	0.77	ug/l	100
10) Methyl Iodide	2.52	142	893	5.44	ug/l	96
13) Acrolein	2.30	56	77	7.13	ug/l #	48
16) Acetone	2.45	43	6067	4.69	ug/l	89
20) Methylene Chloride	2.86	84	876	0.33	ug/l #	81
25) 2-Butanone	4.71	43	514	0.30	ug/l #	52
30) Chloroform	5.23	83	2358	0.58	ug/l	98
31) Cyclohexane	5.67	56	4284	1.24	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13985	4.72	ug/l #	51
38) Carbon Tetrachloride	5.67	117	17566	5.95	ug/l #	16
53) t-1,3-Dichloropropene	8.18	75	20	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	20	3.22	ug/l #	32
60) Dibromochloromethane	9.32	129	41	3.78	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	72308	28.30	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	72308	87.16	ug/l #	7

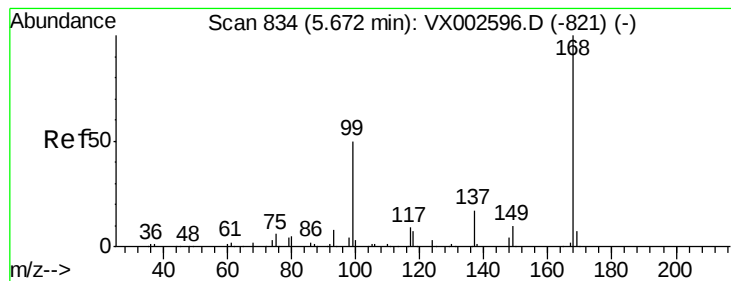
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 16 03:50:34 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

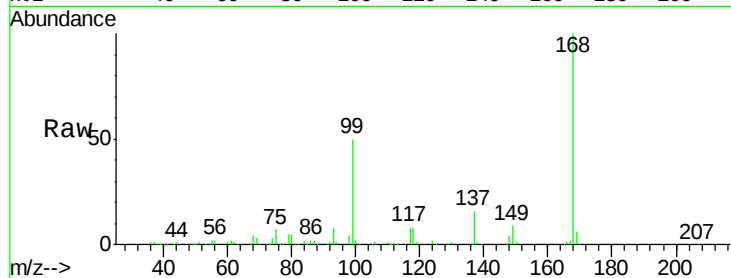
C-MW-07-061118

Tot Ion:168 Resp: 192766

Ion Ratio Lower Upper

168 100

99 50.4 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

80000

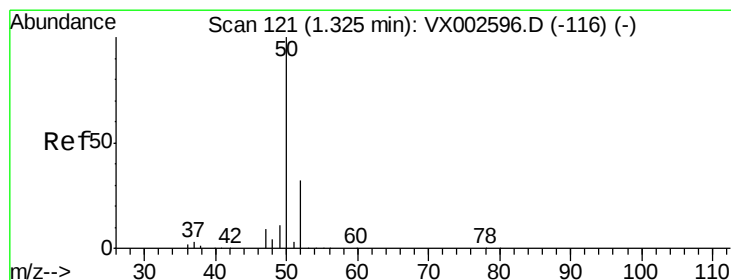
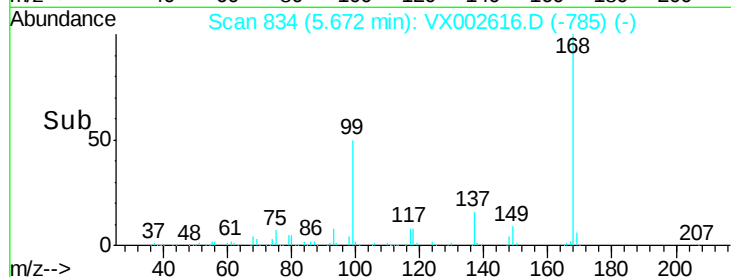
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002616.D

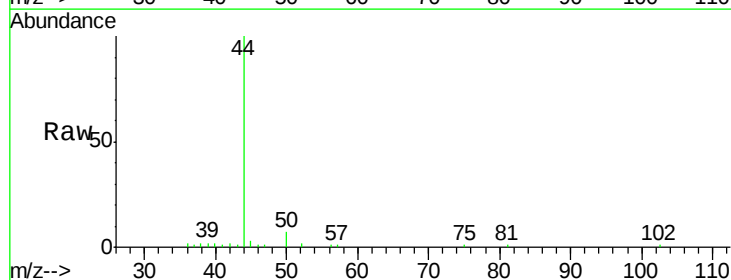
Acq: 16 Jun 2018 00:08

Tgt Ion: 50 Resp: 672

Ion Ratio Lower Upper

50 100

52 29.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

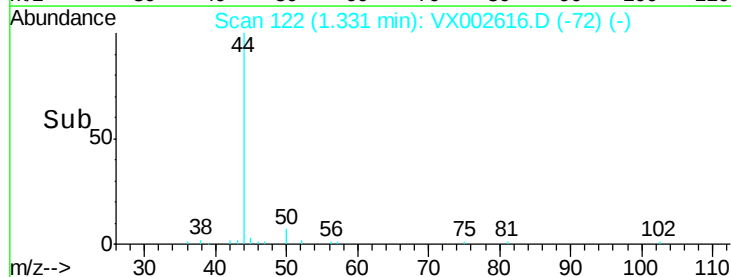
300

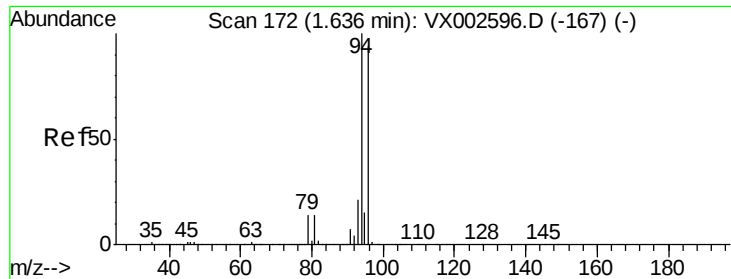
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.77 ug/l

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

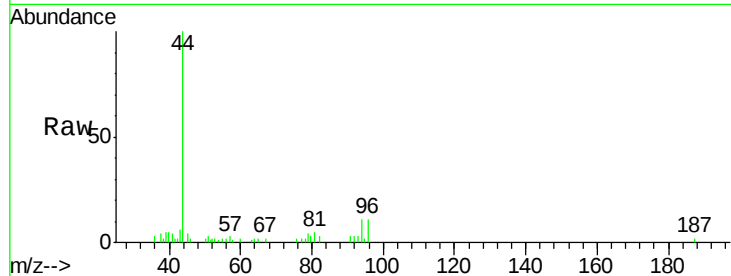
C-MW-07-061118

Tot Ion: 94 Resp: 1174

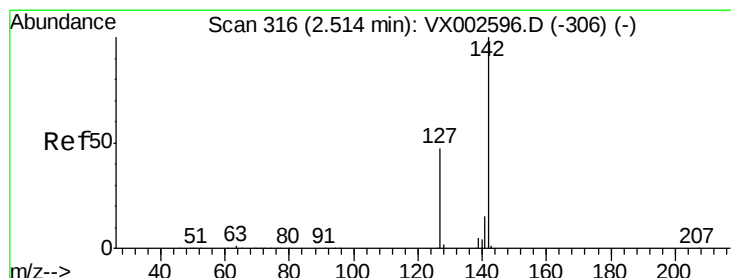
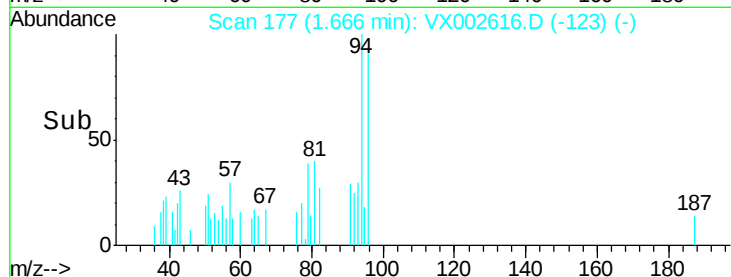
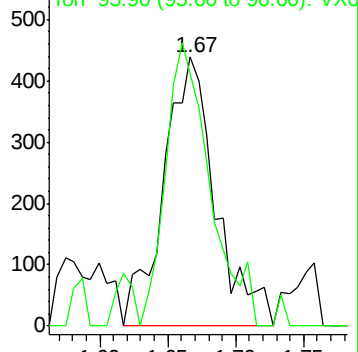
Ion Ratio Lower Upper

94 100

96 94.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX002596.D (-167) (-)



#10

Methyl Iodide

Concen: 5.44 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

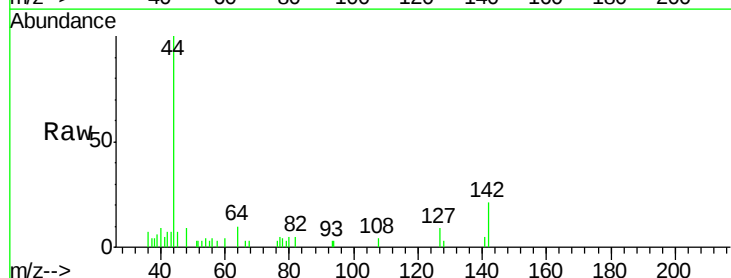
Tgt Ion: 142 Resp: 893

Ion Ratio Lower Upper

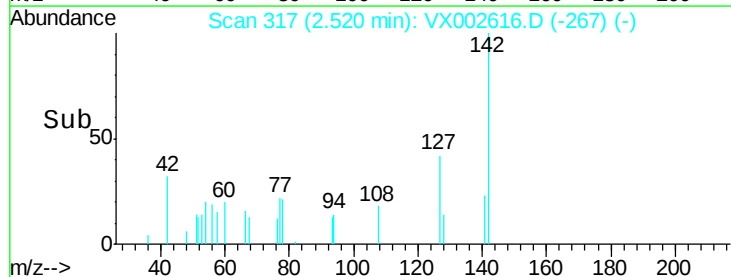
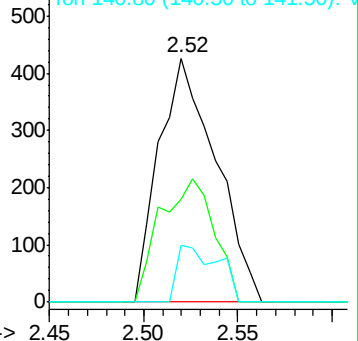
142 100

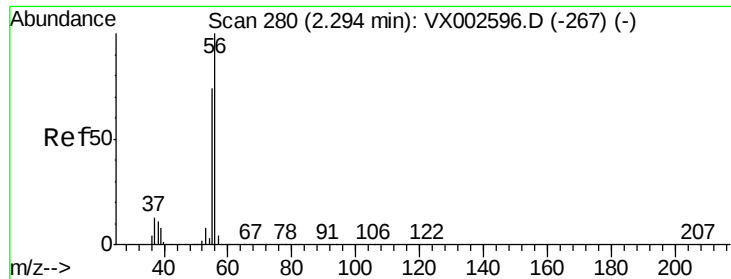
127 47.7 36.6 55.0

141 16.6 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): VX002596.D (-306) (-)





#13

Acrolein

Concen: 7.13 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

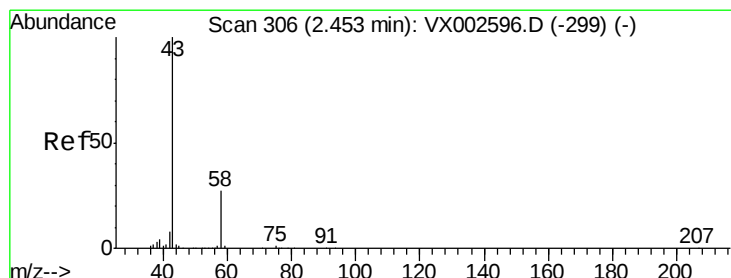
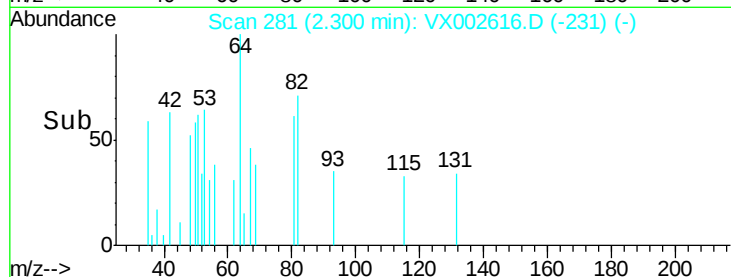
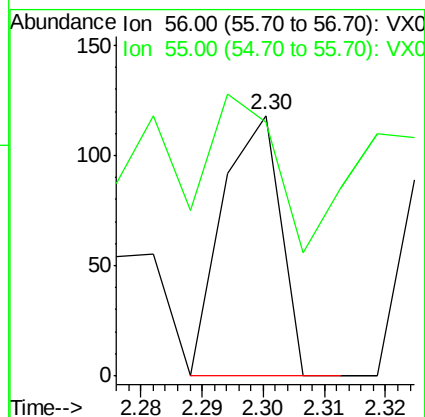
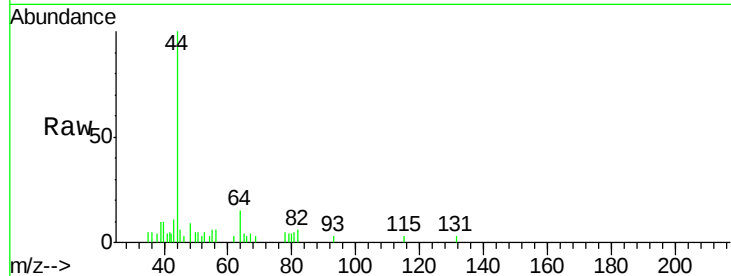
C-MW-07-061118

Tot Ion: 56 Resp: 77

Ion Ratio Lower Upper

56 100

55 114.3 57.0 85.4#



#16

Acetone

Concen: 4.69 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002616.D

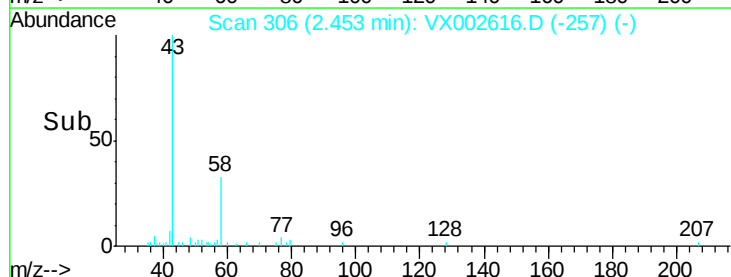
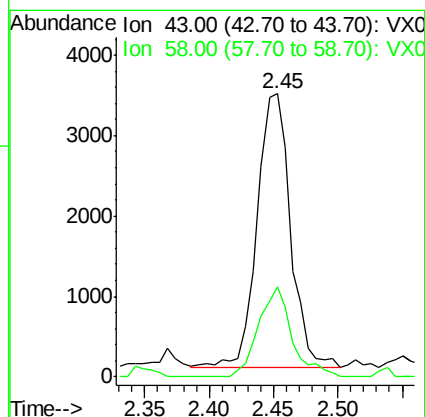
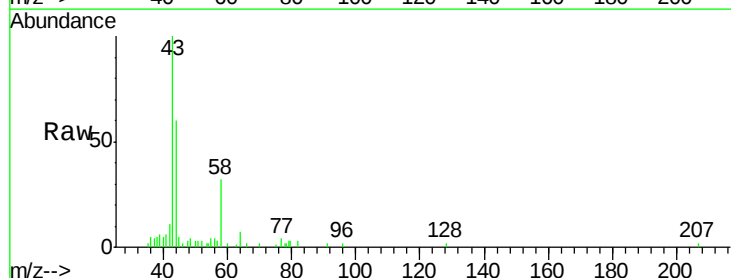
Acq: 16 Jun 2018 00:08

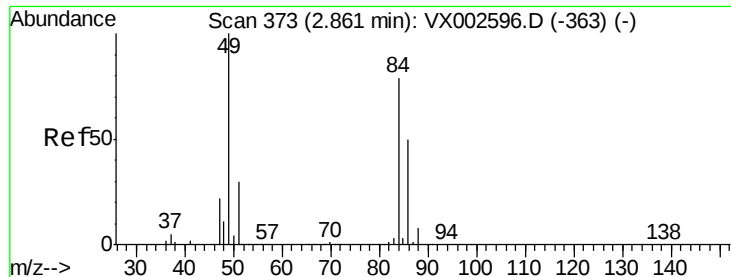
Tgt Ion: 43 Resp: 6067

Ion Ratio Lower Upper

43 100

58 33.1 22.1 33.1





#20

Methylene Chloride

Concen: 0.33 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

C-MW-07-061118

Tot Ion: 84 Resp: 876

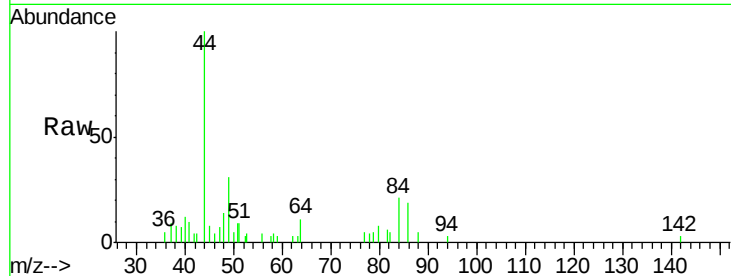
Ion Ratio Lower Upper

84 100

49 143.8 107.8 161.6

51 68.5 32.8 49.2#

86 87.8 52.5 78.7#

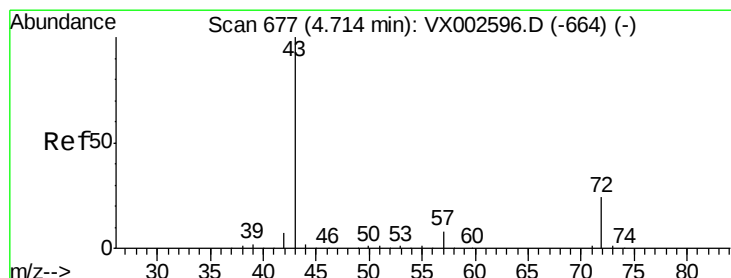
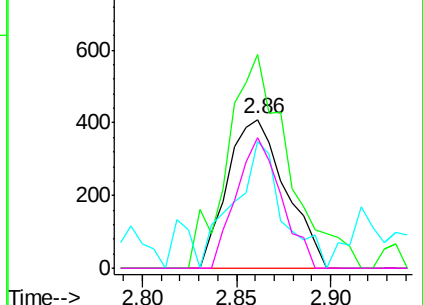
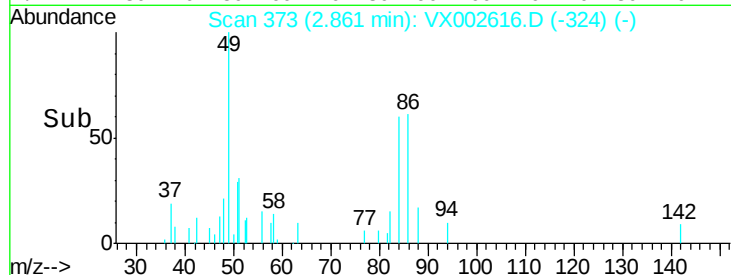


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.30 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002616.D

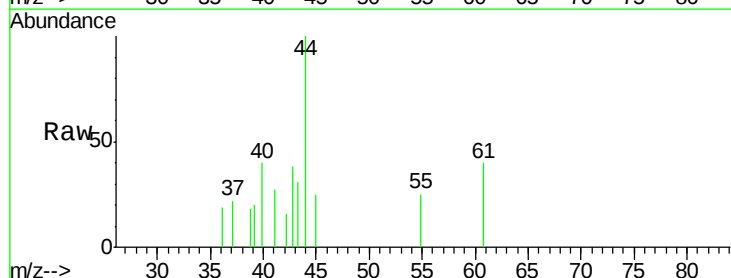
Acq: 16 Jun 2018 00:08

Tgt Ion: 43 Resp: 514

Ion Ratio Lower Upper

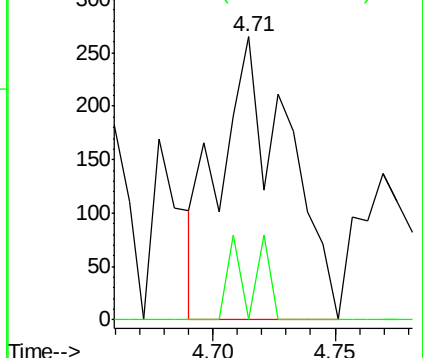
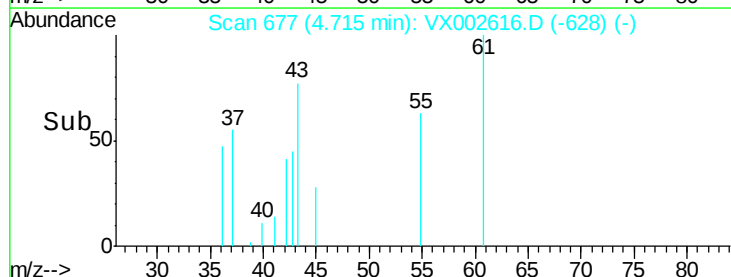
43 100

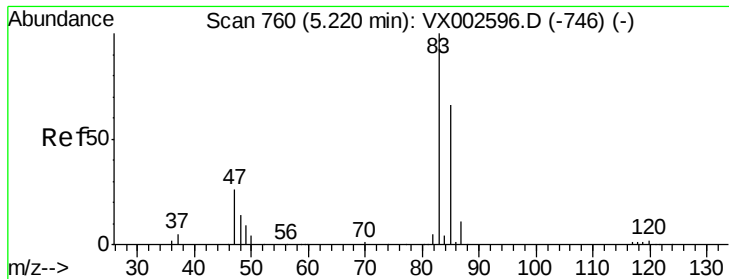
72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

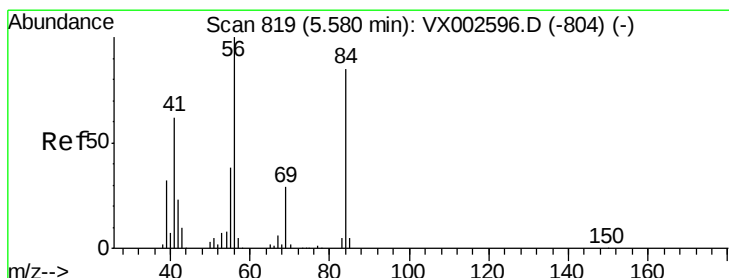
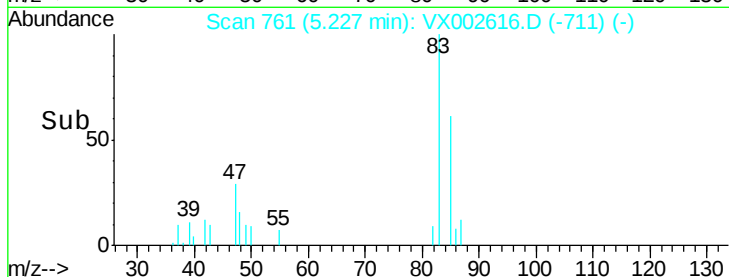
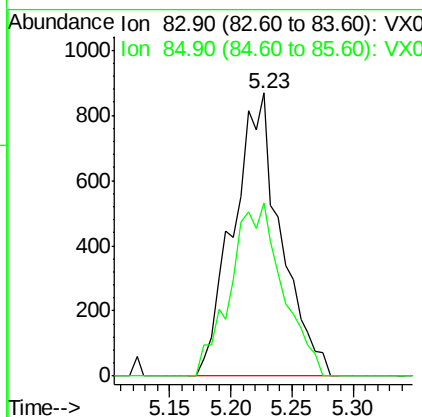
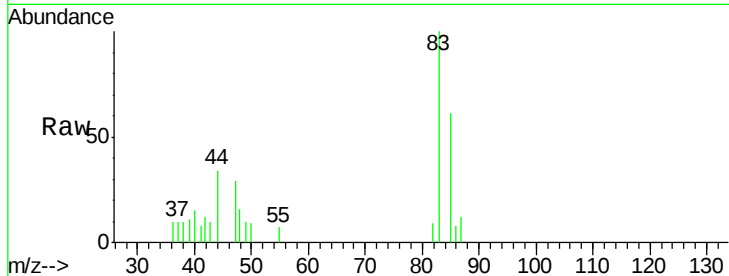




#30
Chloroform
Concen: 0.58 ug/l
RT: 5.23 min Scan# 761
Delta R.T. 0.01 min
Lab File: VX002616.D
Acq: 16 Jun 2018 00:08

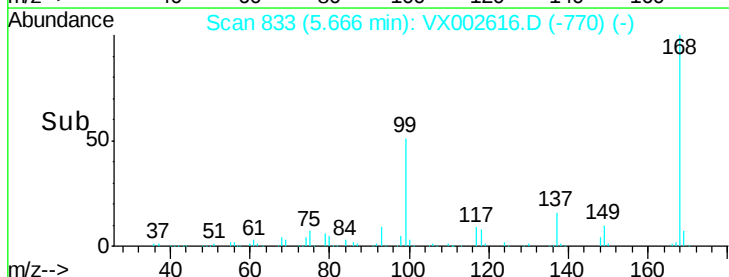
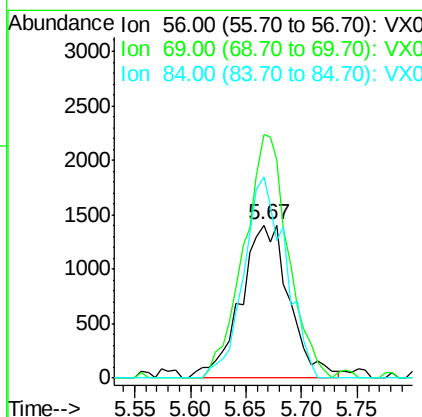
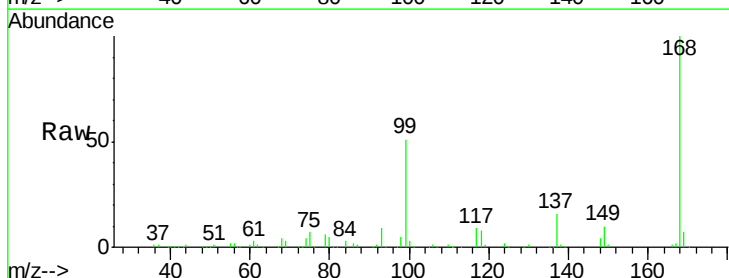
Instrument :
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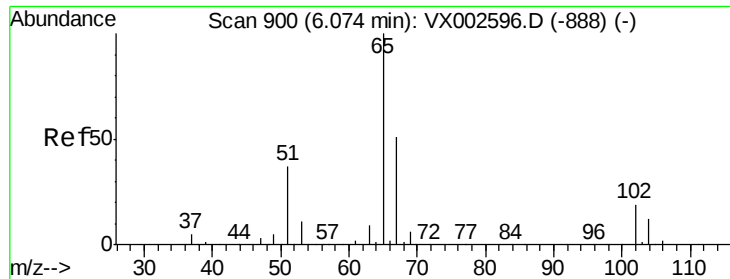
Tot Ion: 83 Resp: 2358
Ion Ratio Lower Upper
83 100
85 61.4 50.4 75.6



#31
Cyclohexane
Concen: 1.24 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002616.D
Acq: 16 Jun 2018 00:08

Tgt Ion: 56 Resp: 4284
Ion Ratio Lower Upper
56 100
69 159.4 23.7 35.5#
84 132.0 64.1 96.1#





#33

1,2-Dichloroethane-d4

Concen: 46.05 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

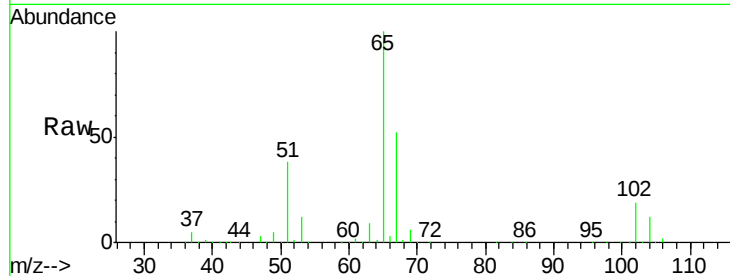
C-MW-07-061118

Tot Ion: 65 Resp: 134908

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

50000

40000

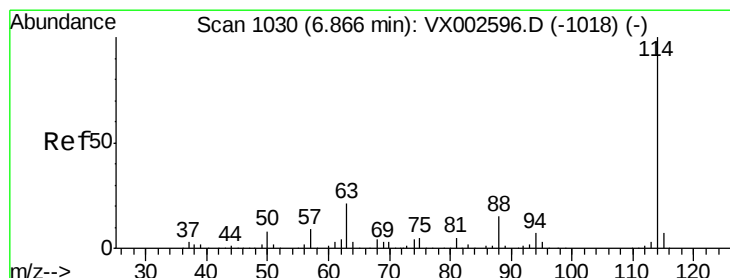
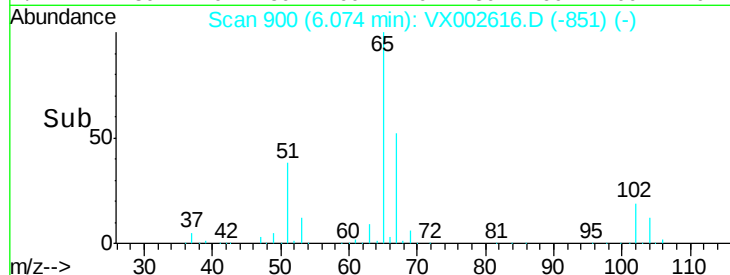
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20 6.30



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

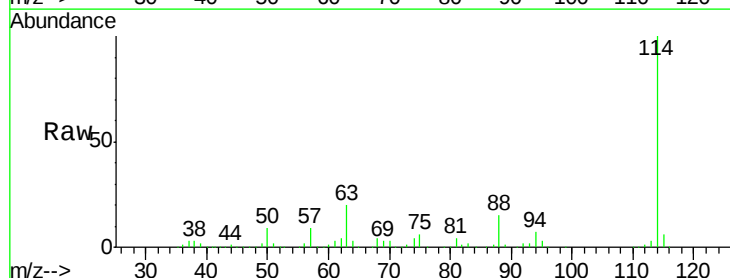
Tgt Ion: 114 Resp: 279039

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.4

88 14.6 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

6.87

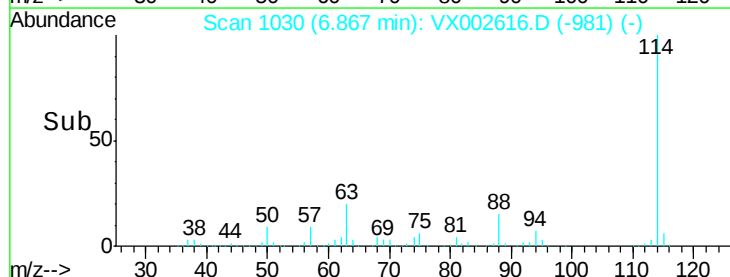
150000

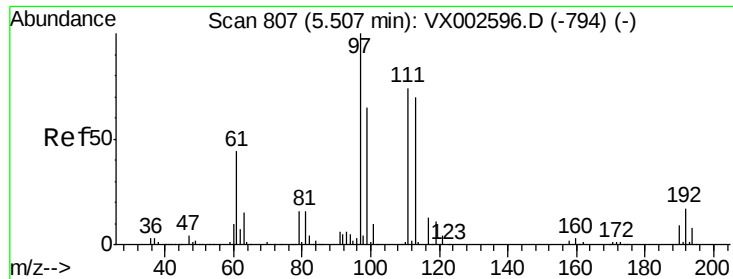
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 45.35 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

C-MW-07-061118

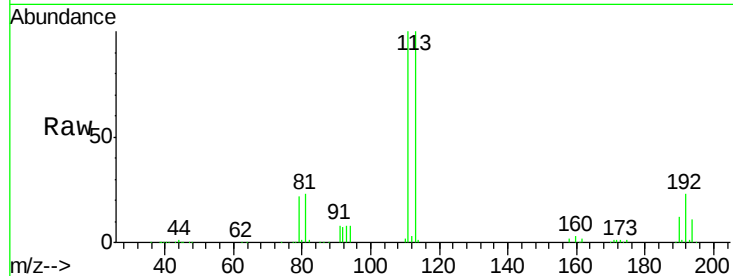
Tot Ion:113 Resp: 100995

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

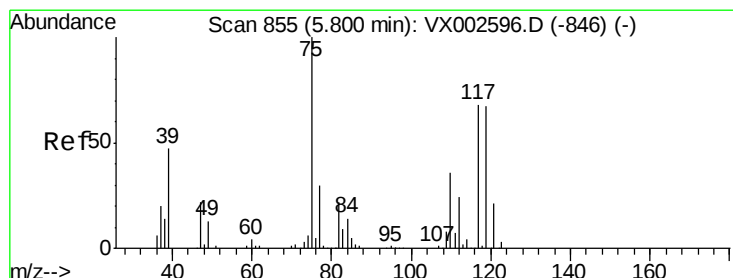
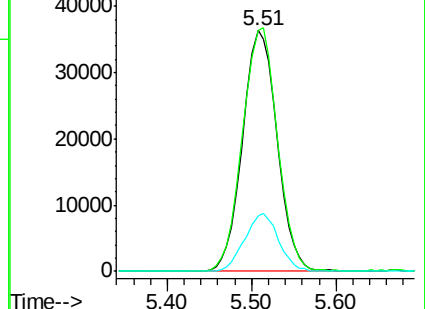
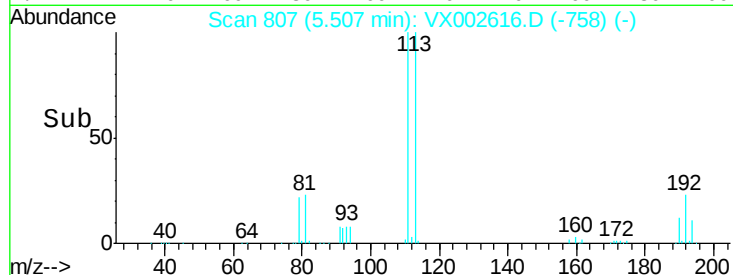
192 23.6 19.1 28.7



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: 4.72 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

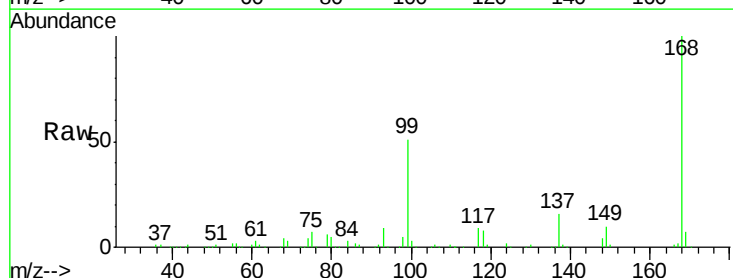
Tgt Ion: 75 Resp: 13985

Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

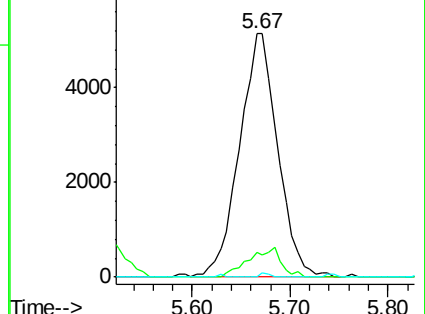
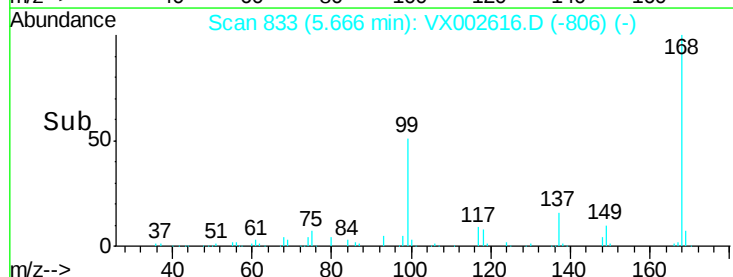
77 0.4 24.3 36.5#

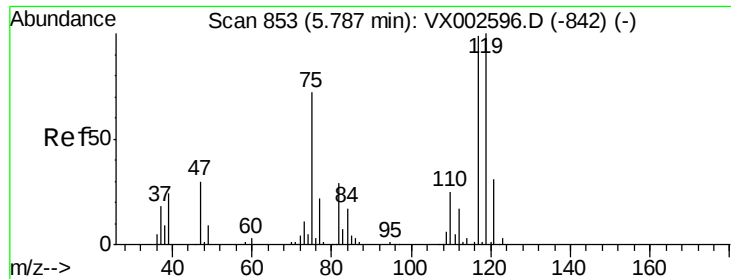


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.95 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

C-MW-07-061118

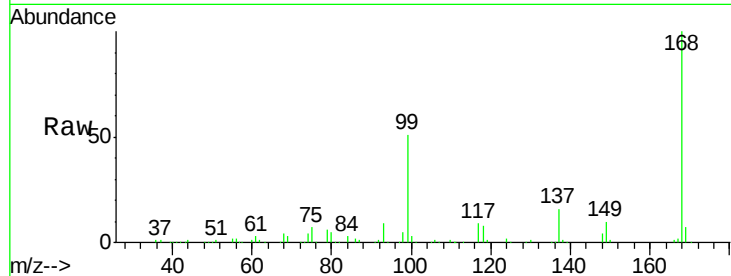
Tot Ion:117 Resp: 17566

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

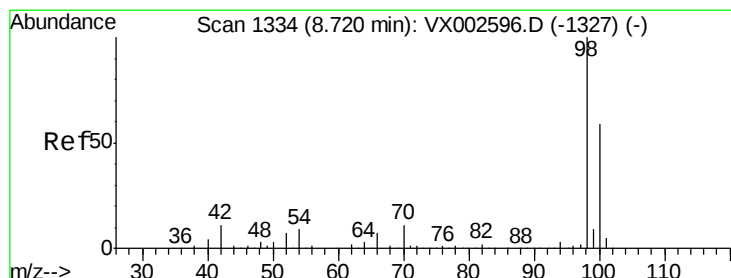
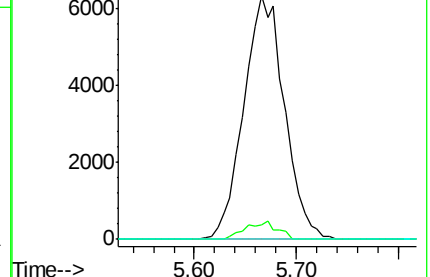
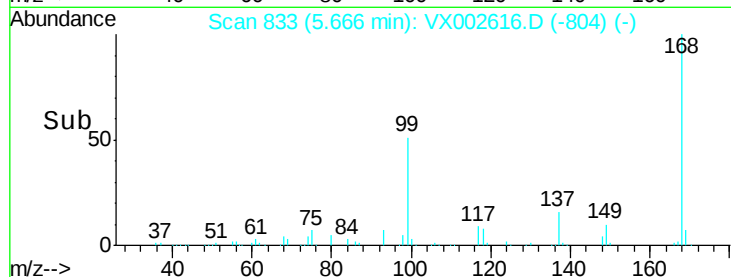
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 47.57 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002616.D

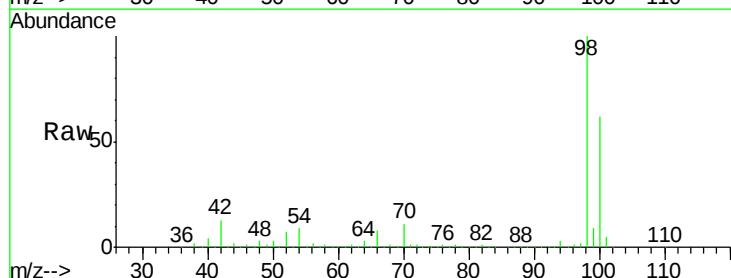
Acq: 16 Jun 2018 00:08

Tgt Ion: 98 Resp: 402213

Ion Ratio Lower Upper

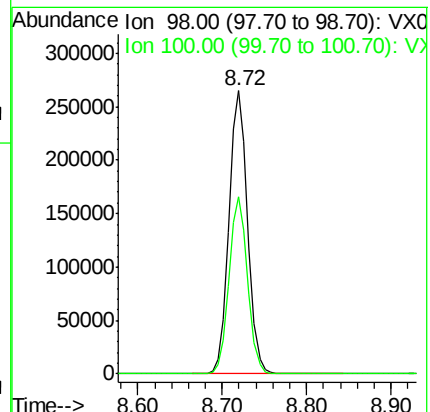
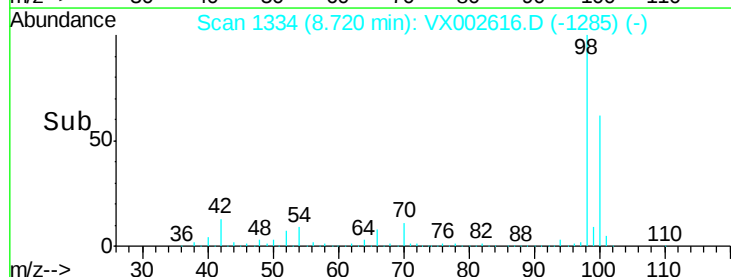
98 100

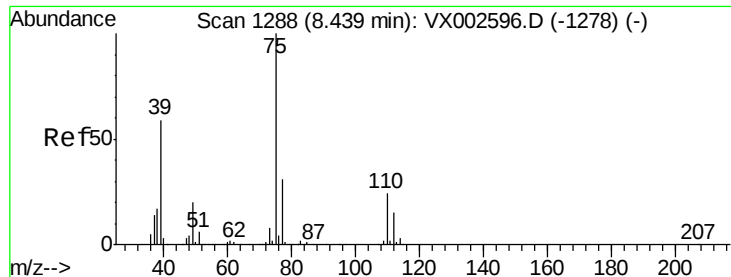
100 62.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.18 min Scan# 1246

Delta R.T. -0.26 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

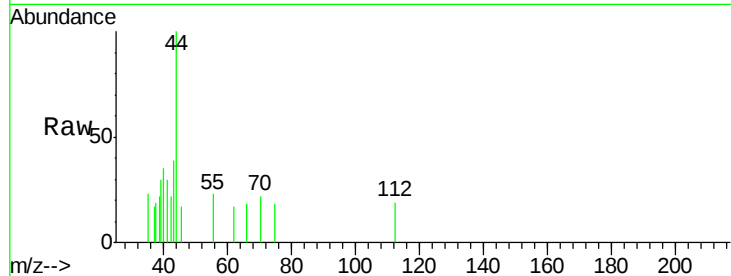
C-MW-07-061118

Tot Ion: 75 Resp: 20

Ion Ratio Lower Upper

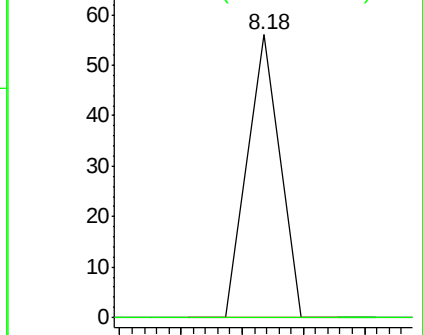
75 100

77 0.0 25.4 38.2#

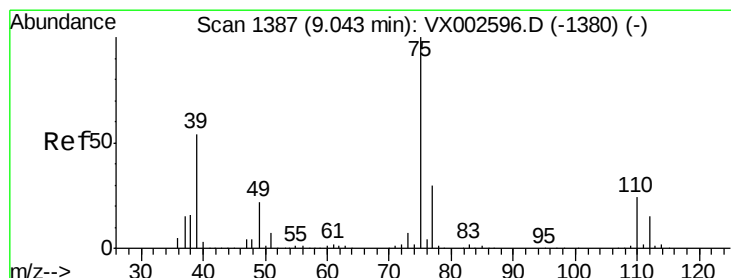
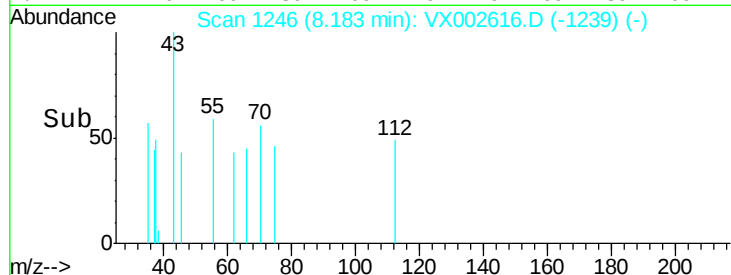


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



Time--> 8.16 8.17 8.18 8.19 8.20



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

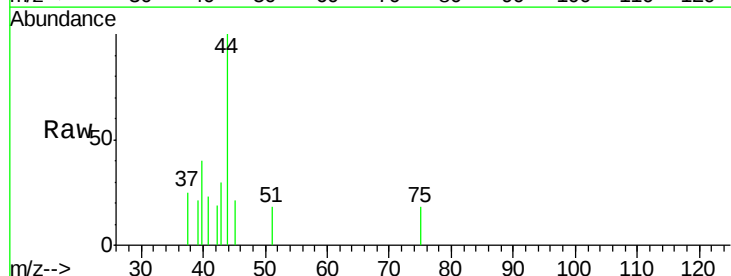
Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

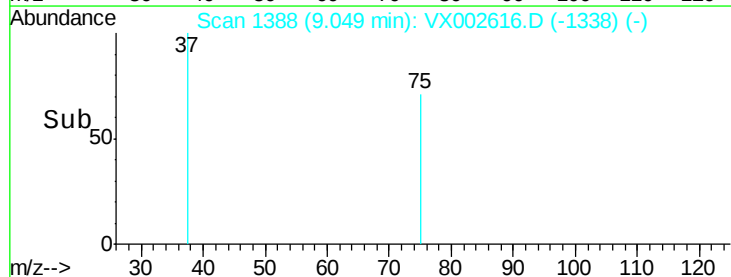
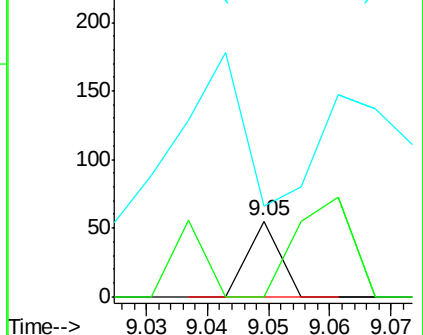
39 0.0 42.4 63.6#

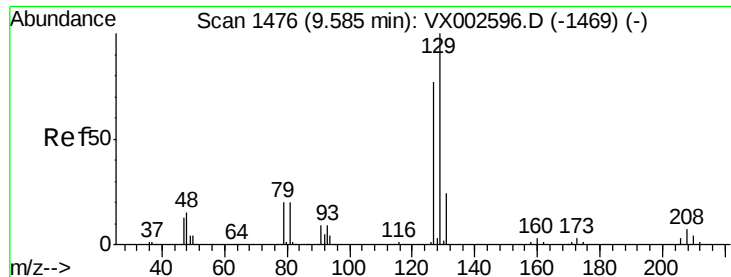


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#60

Dibromochloromethane

Concen: 3.78 ug/l

RT: 9.32 min Scan# 1433

Delta R.T. -0.26 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

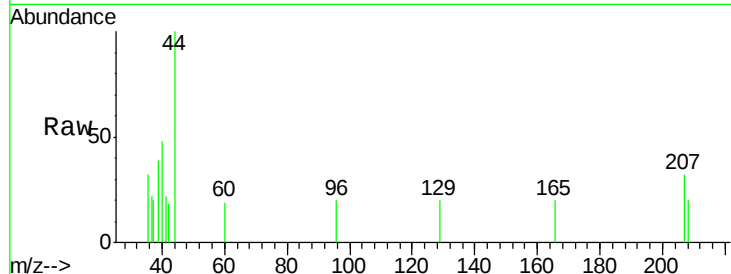
C-MW-07-061118

Tot Ion:129 Resp: 41

Ion Ratio Lower Upper

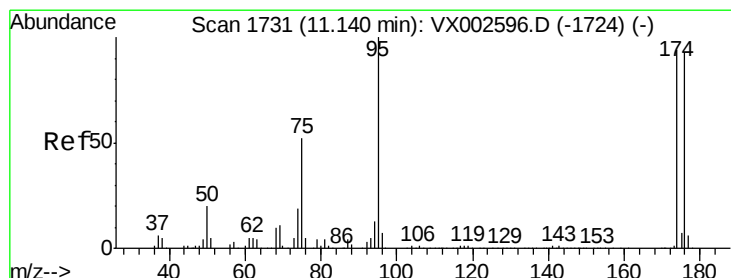
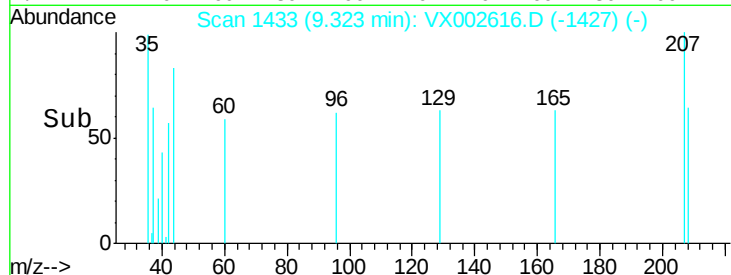
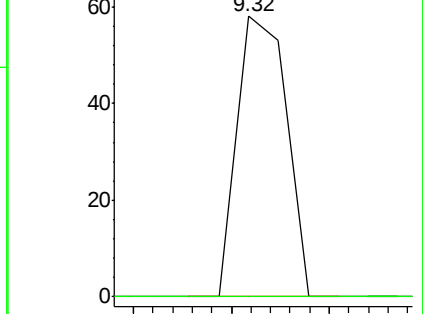
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 41.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

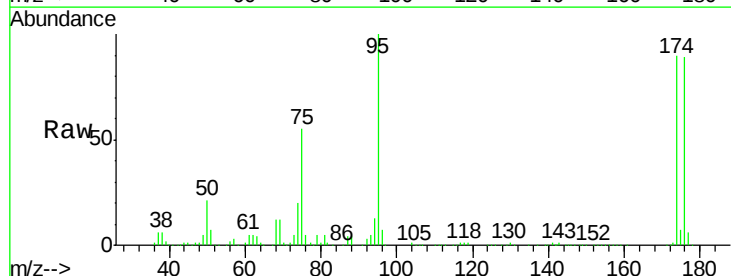
Tgt Ion: 95 Resp: 133874

Ion Ratio Lower Upper

95 100

174 94.6 0.0 187.4

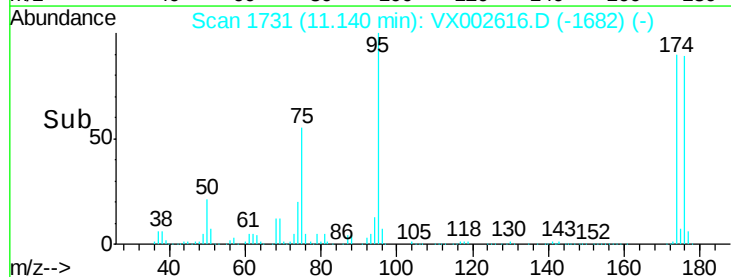
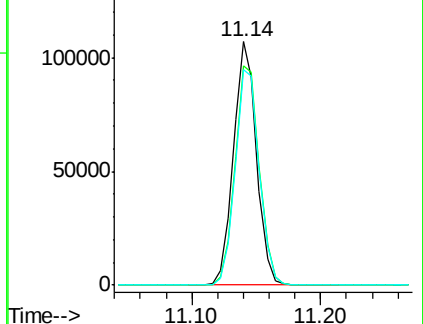
176 92.1 0.0 181.0

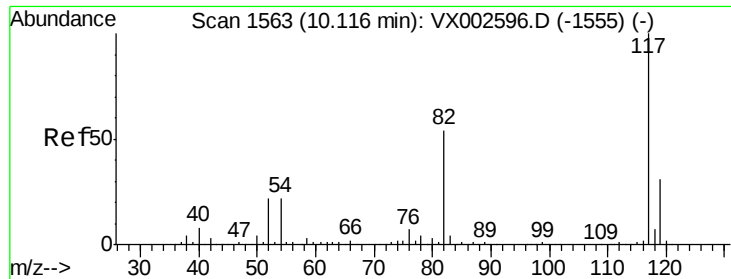


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

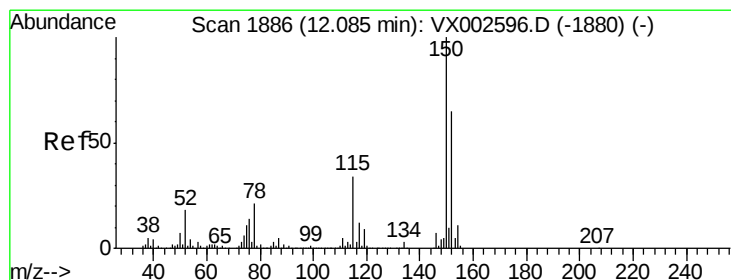
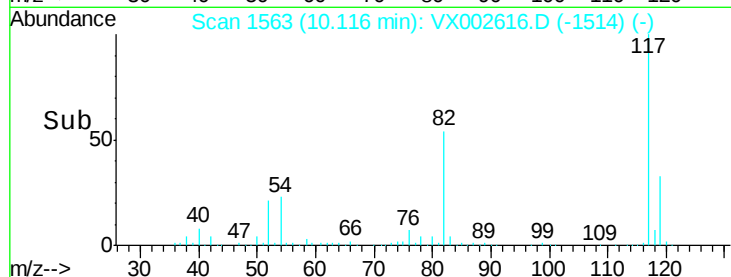
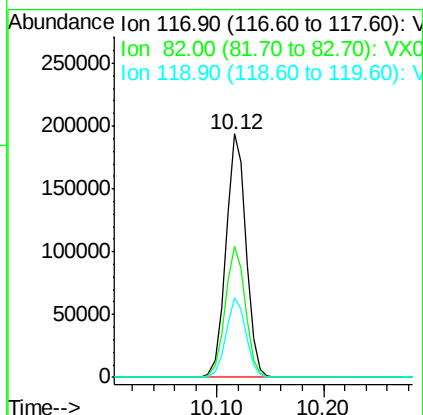
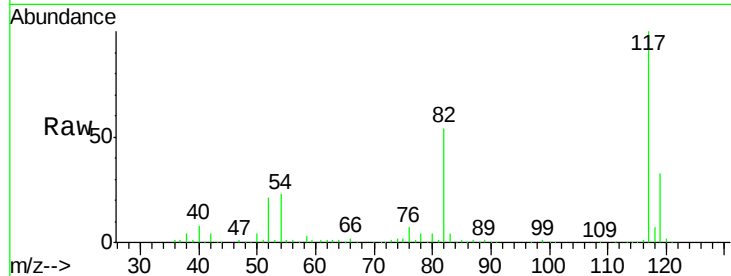




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002616.D
Acq: 16 Jun 2018 00:08

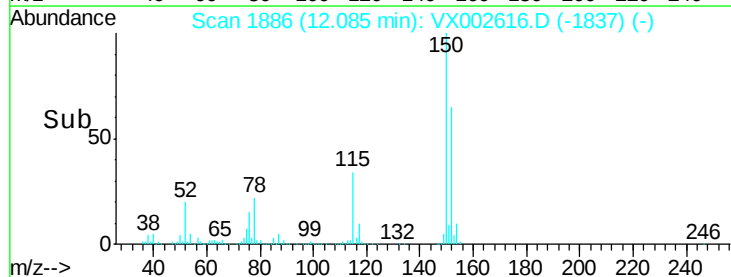
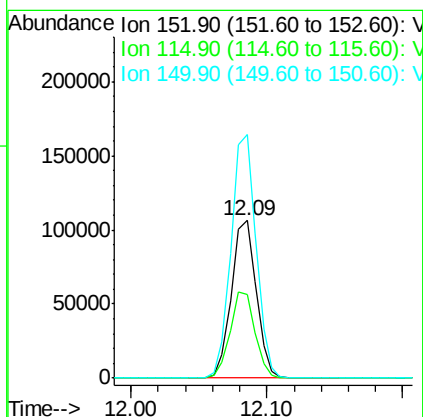
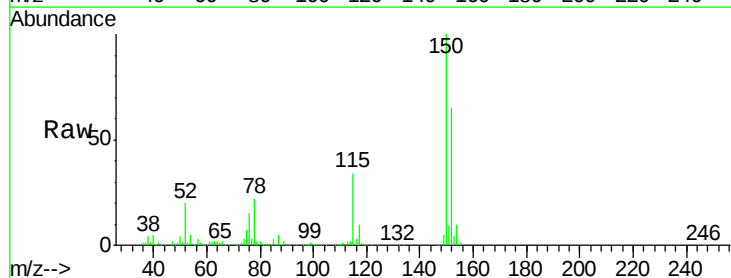
Instrument :
MSVOA_X
ClientSampled :
C-MW-07-061118

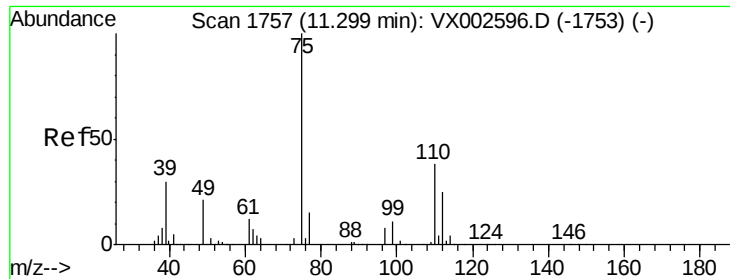
Tot Ion:117 Resp: 255949
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.4
119 32.8 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002616.D
Acq: 16 Jun 2018 00:08

Tgt Ion:152 Resp: 135406
Ion Ratio Lower Upper
152 100
115 55.0 40.1 120.2
150 155.6 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 28.30 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

Instrument :

MSVOA_X

ClientSampleId :

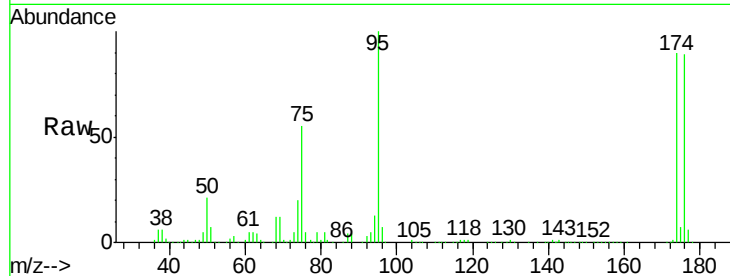
C-MW-07-061118

Tot Ion: 75 Resp: 72308

Ion Ratio Lower Upper

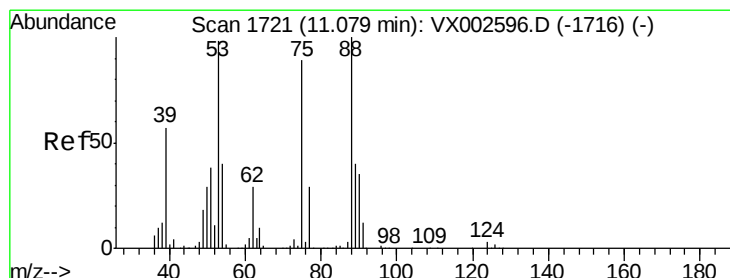
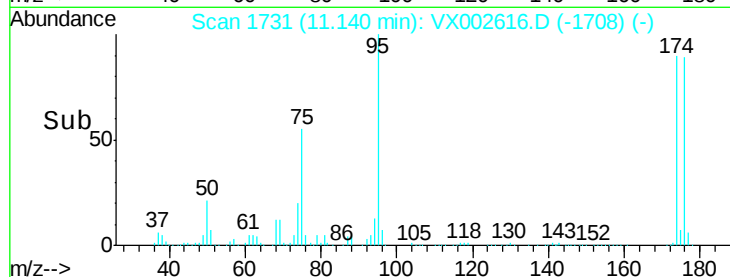
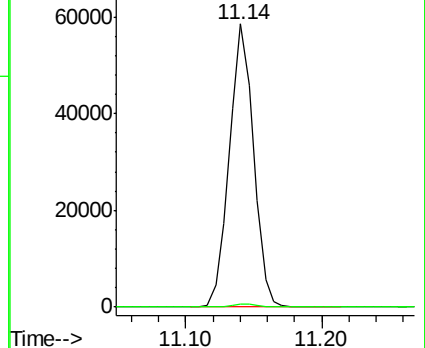
75 100

77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 87.16 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002616.D

Acq: 16 Jun 2018 00:08

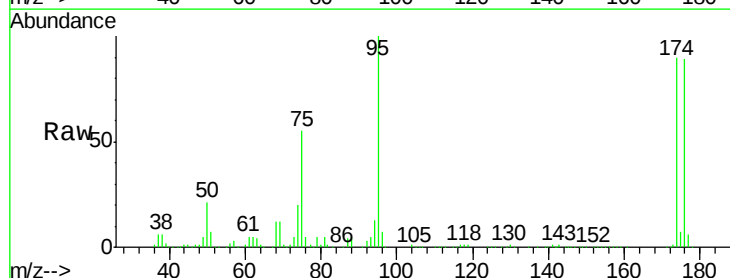
Tgt Ion: 75 Resp: 72308

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

