

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050618\  
 Data File : VX001452.D  
 Acq On : 06 May 2018 18:51  
 Operator : JC/MD  
 Sample : J2659-16  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW309D-20180429

Quant Time: May 07 07:11:20 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 293742   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 402801   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 361075   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 200036   | 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   | 259580   | 61.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 122.96% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 201986   | 56.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.76% |          |
| 50) Toluene-d8              | 8.72  | 98   | 714886   | 54.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.32% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 239577   | 47.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.44%  |          |

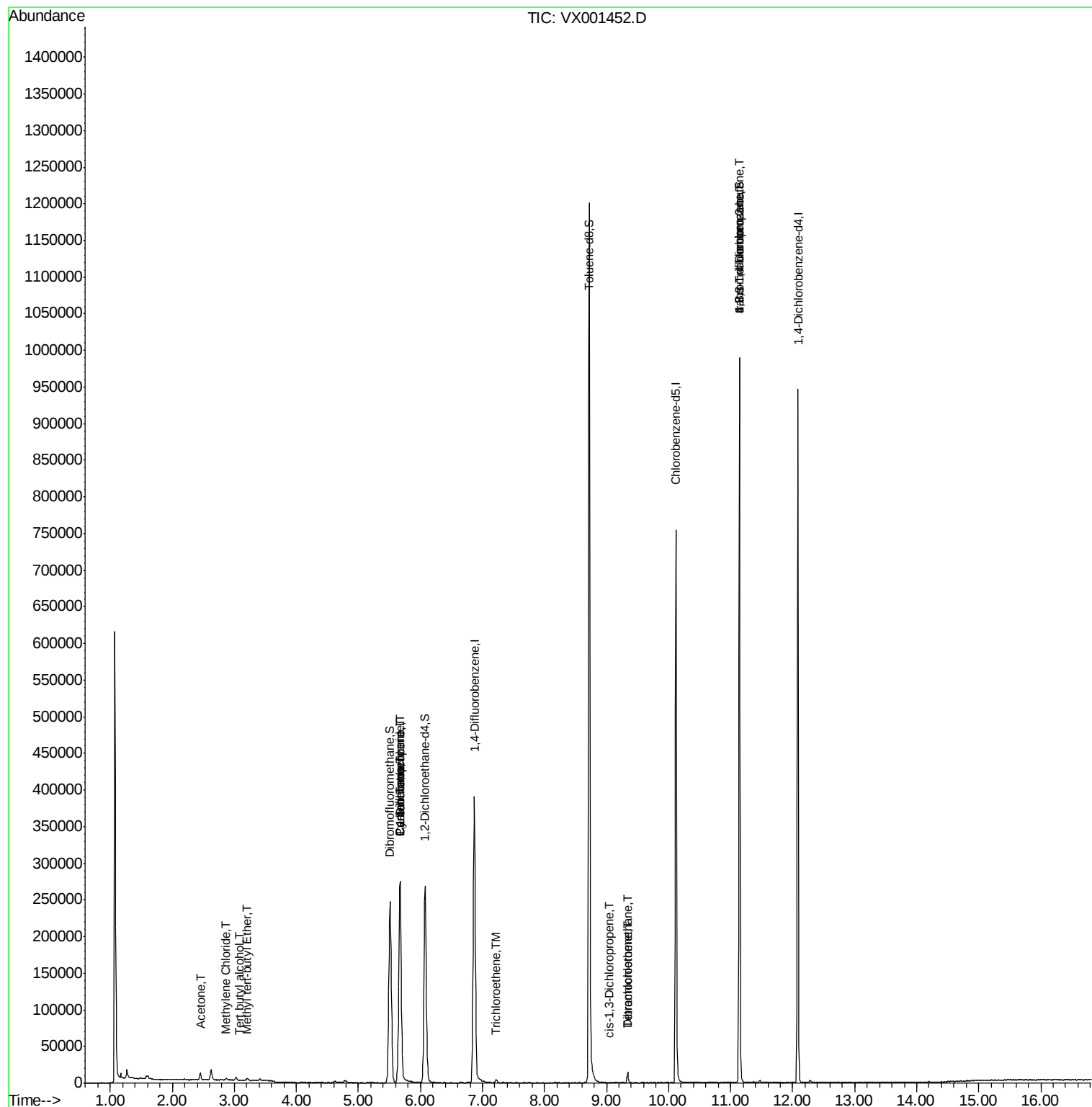
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 762      | Below Cal | #      | 69     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 362      | 0.41      | ug/l # | 72     |
| 13) Acrolein                   | 2.30  | 56   | 73       | Below Cal |        | 87     |
| 16) Acetone                    | 2.45  | 43   | 10110    | 5.27      | ug/l   | 97     |
| 19) Methyl tert-butyl Ether    | 3.21  | 73   | 2701     | 0.24      | ug/l # | 85     |
| 20) Methylene Chloride         | 2.86  | 84   | 1052     | 0.28      | ug/l # | 86     |
| 31) Cyclohexane                | 5.67  | 56   | 5396     | 0.99      | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 18058    | 3.52      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 25094    | 4.59      | ug/l # | 17     |
| 44) Trichloroethene            | 7.22  | 130  | 1440     | 0.31      | ug/l   | 74     |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 20       | 2.27      | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129  | 2574     | 0.64      | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164  | 3001     | 0.60      | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 122054   | 30.08     | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 122054   | 91.98     | ug/l # | 7      |

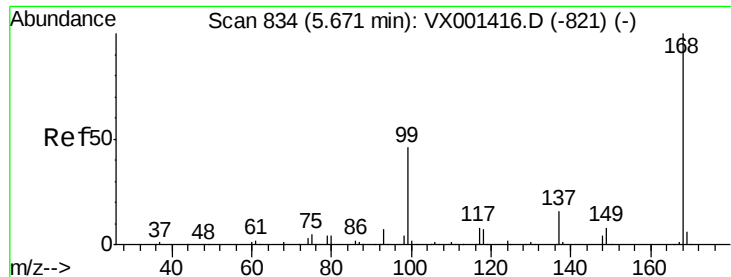
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050618\  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW309D-20180429

Quant Time: May 07 07:11:20 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
Quant Title : SW846 8260  
QLast Update : Sun May 06 07:59:25 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: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

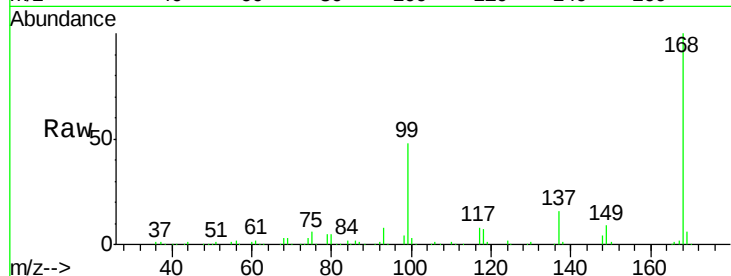
BPS1-TT-MW309D-20180429

Tgt Ion:168 Resp: 293742

Ion Ratio Lower Upper

168 100

99 47.7 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

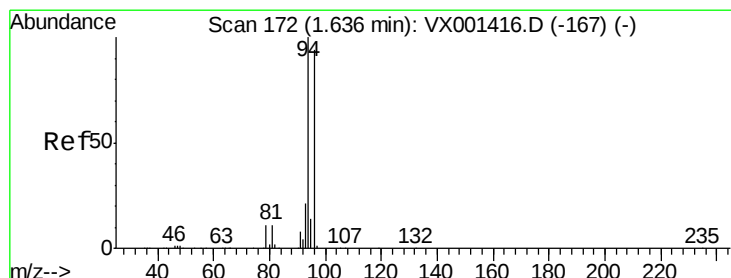
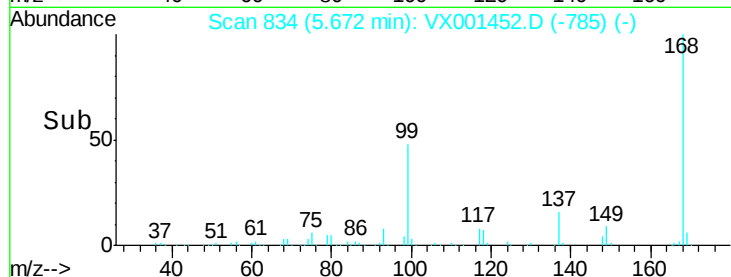
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX001452.D

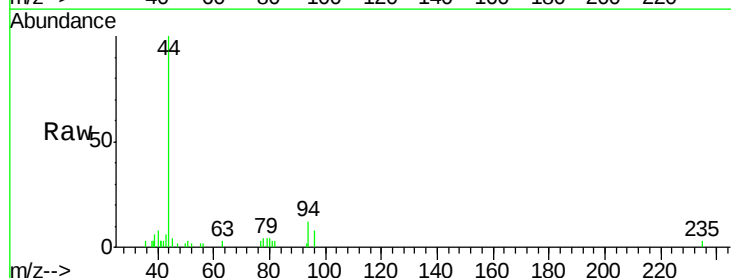
Acq: 06 May 2018 18:51

Tgt Ion: 94 Resp: 762

Ion Ratio Lower Upper

94 100

96 64.2 75.0 112.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

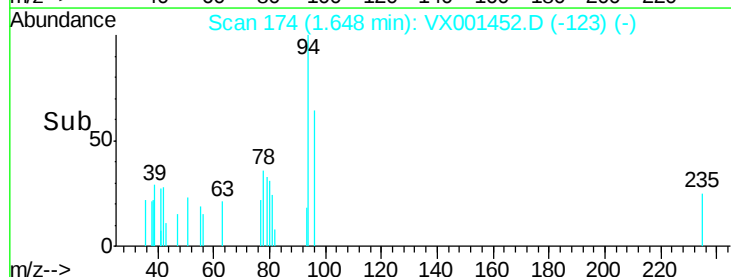
300

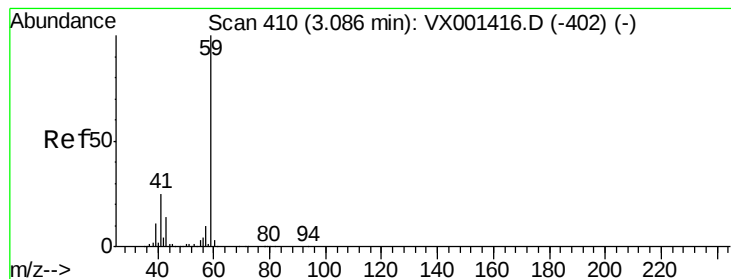
200

100

0

Time--> 1.60 1.65 1.70





#11

Tert butyl alcohol

Concen: 0.41 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

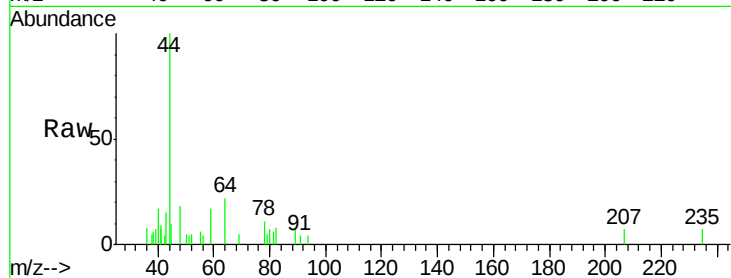
BPS1-TT-MW309D-20180429

Tgt Ion: 59 Resp: 362

Ion Ratio Lower Upper

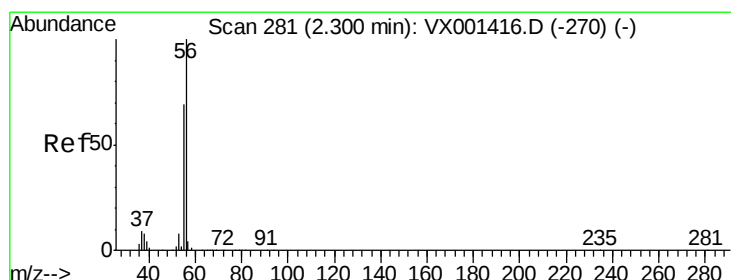
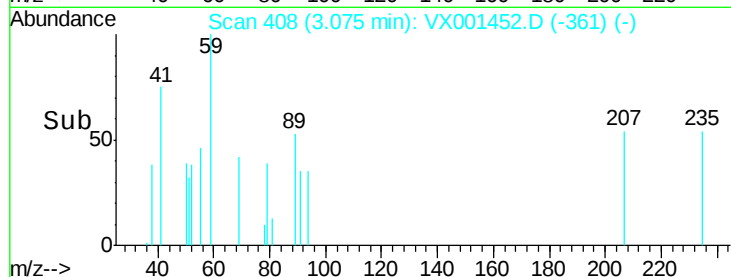
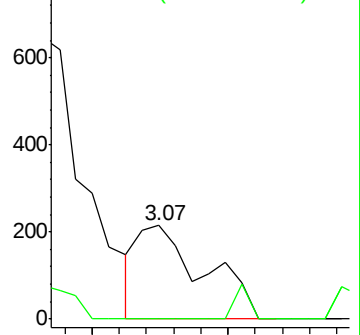
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX001452.D

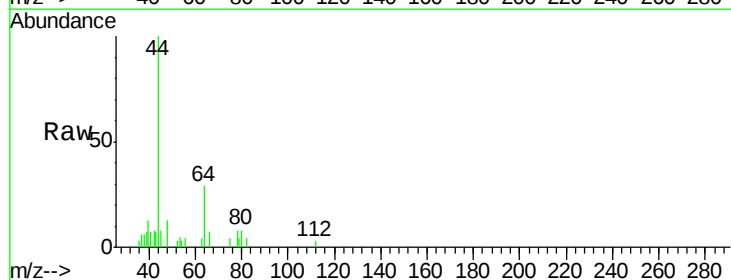
Acq: 06 May 2018 18:51

Tgt Ion: 56 Resp: 73

Ion Ratio Lower Upper

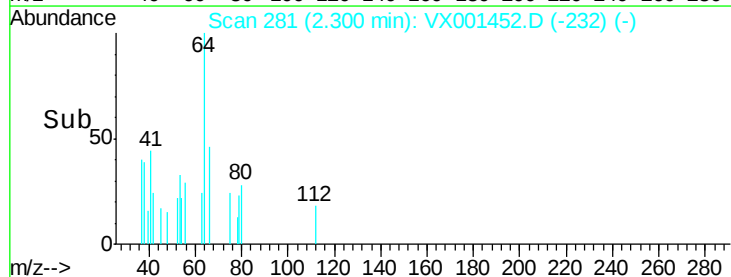
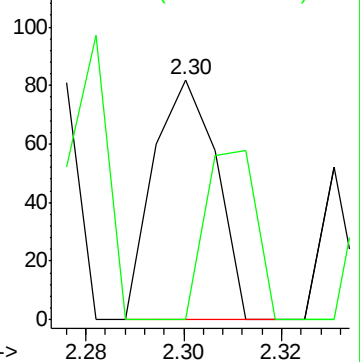
56 100

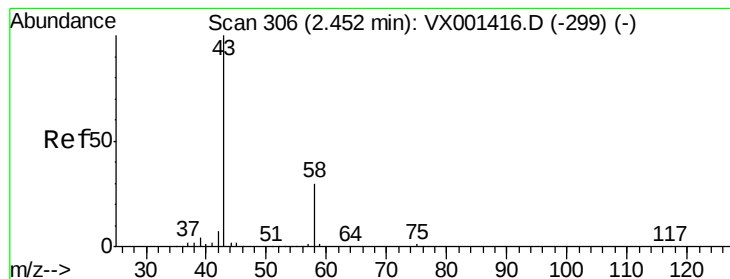
55 57.5 54.5 81.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 5.27 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

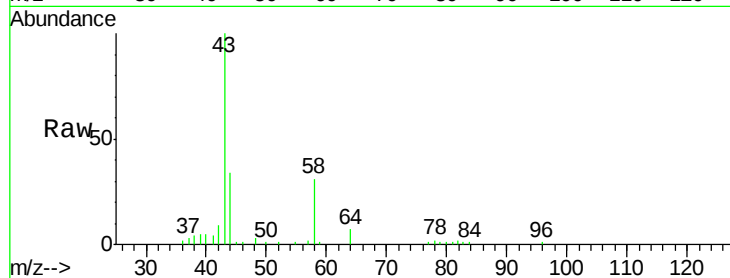
BPS1-TT-MW309D-20180429

Tgt Ion: 43 Resp: 10110

Ion Ratio Lower Upper

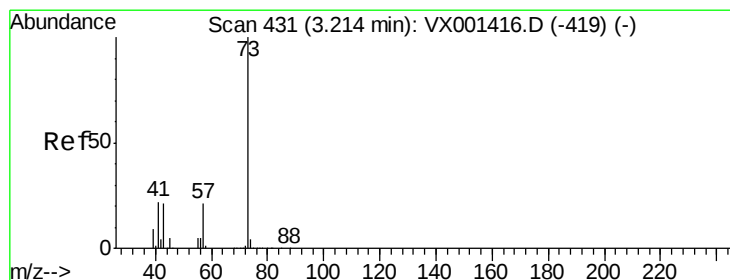
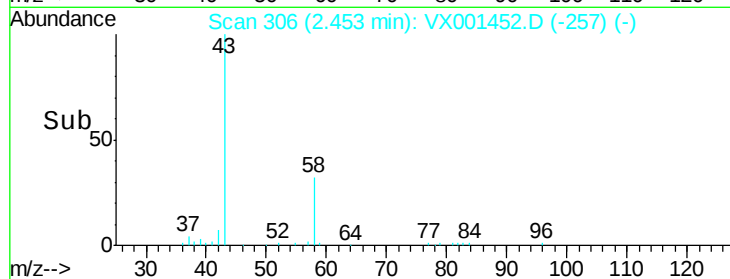
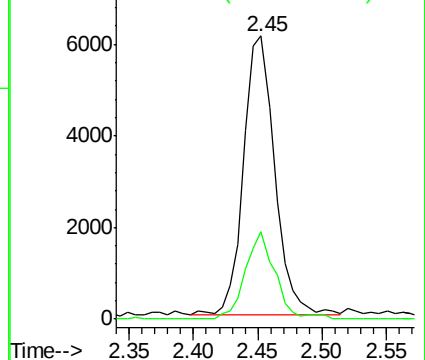
43 100

58 31.5 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#19

Methyl tert-butyl Ether

Concen: 0.24 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.01 min

Lab File: VX001452.D

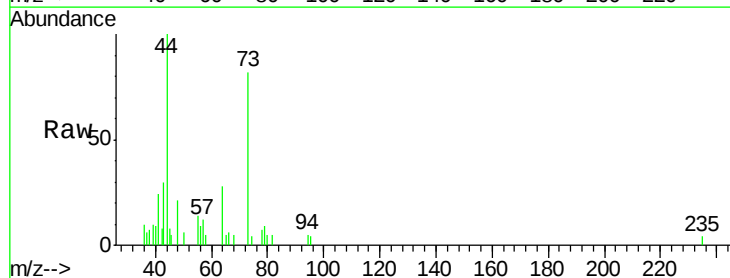
Acq: 06 May 2018 18:51

Tgt Ion: 73 Resp: 2701

Ion Ratio Lower Upper

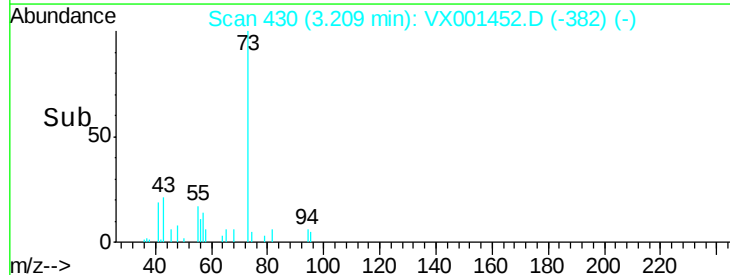
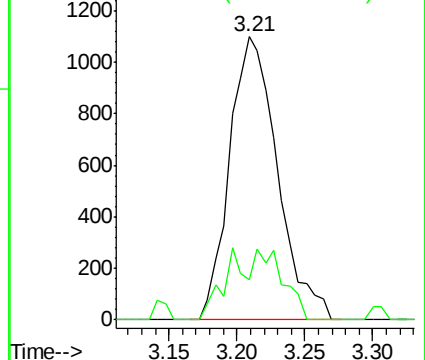
73 100

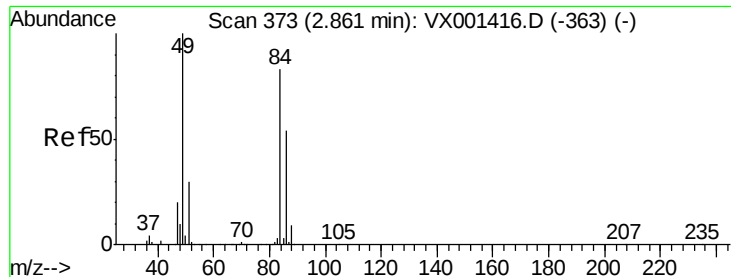
57 14.3 17.0 25.6#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

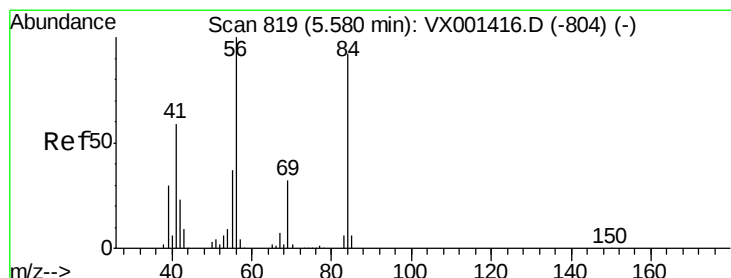
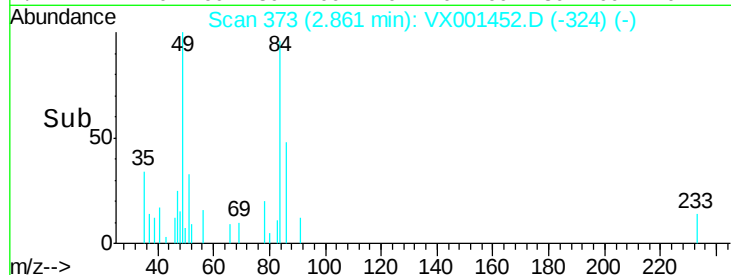
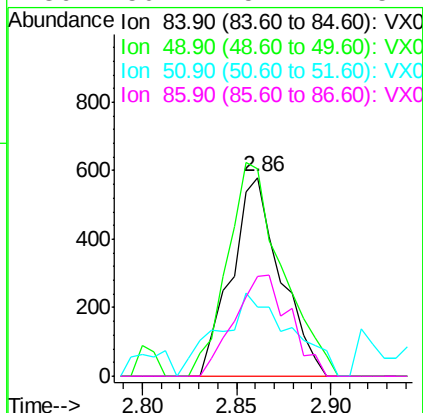
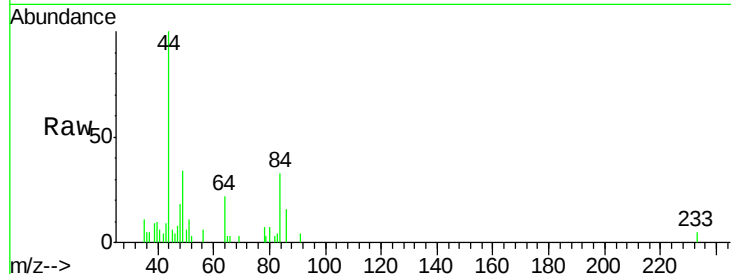




#20  
Methylene Chloride  
Concen: 0.28 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.00 min  
Lab File: VX001452.D  
Acq: 06 May 2018 18:51

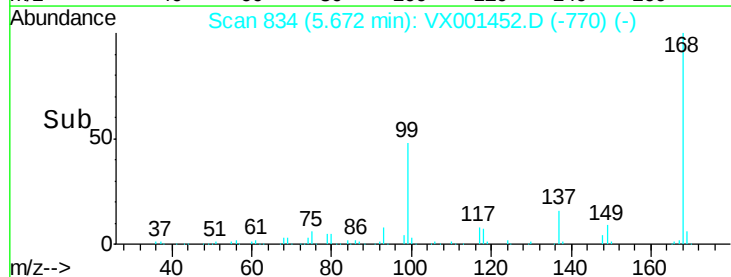
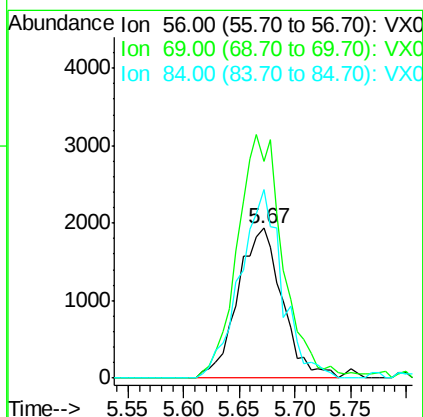
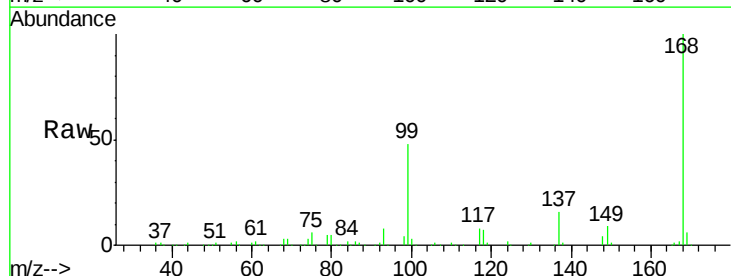
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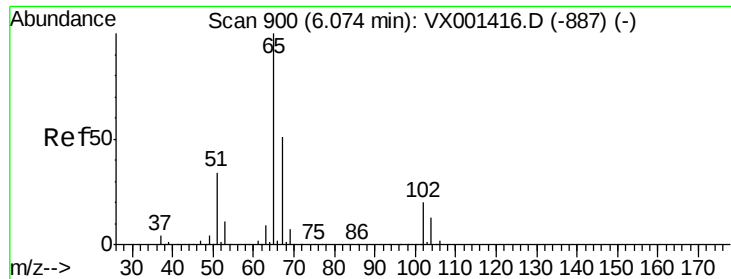
Tgt Ion: 84 Resp: 1052  
Ion Ratio Lower Upper  
84 100  
49 104.3 96.6 144.8  
51 34.8 29.0 43.4  
86 50.1 52.2 78.4#



#31  
Cyclohexane  
Concen: 0.99 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. 0.09 min  
Lab File: VX001452.D  
Acq: 06 May 2018 18:51

Tgt Ion: 56 Resp: 5396  
Ion Ratio Lower Upper  
56 100  
69 144.5 25.4 38.0#  
84 129.6 73.8 110.8#





#33

1,2-Dichloroethane-d4

Concen: 61.48 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

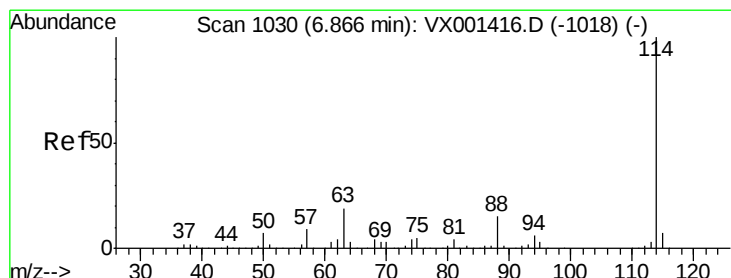
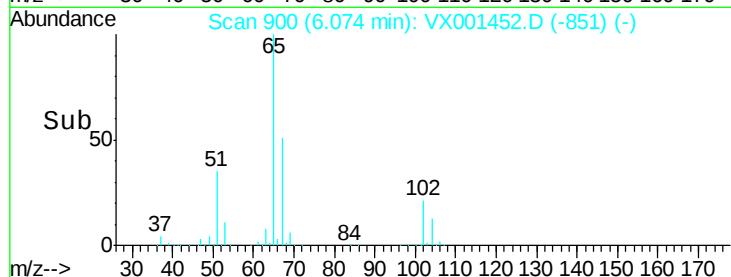
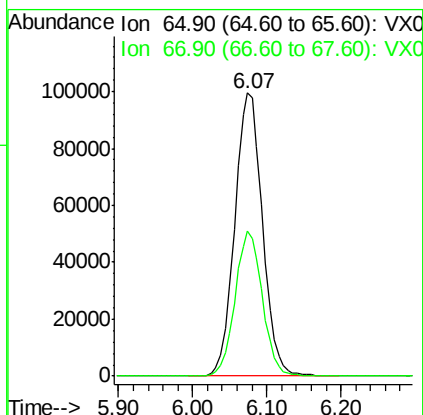
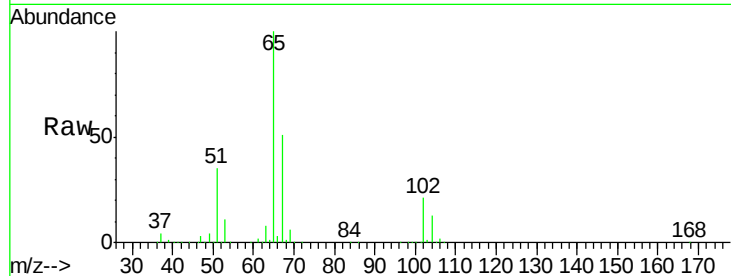
BPS1-TT-MW309D-20180429

Tgt Ion: 65 Resp: 259580

Ion Ratio Lower Upper

65 100

67 50.3 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

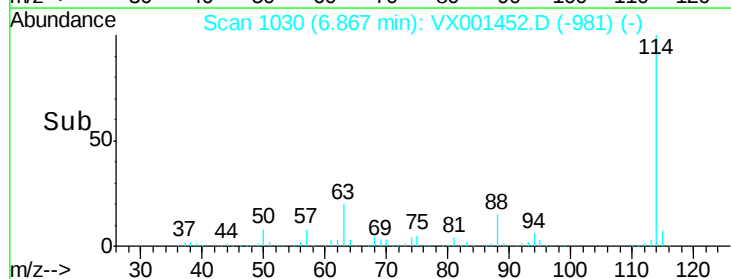
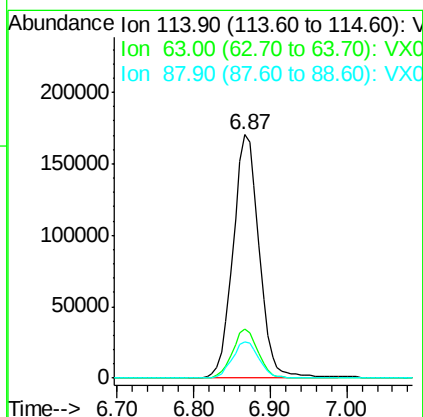
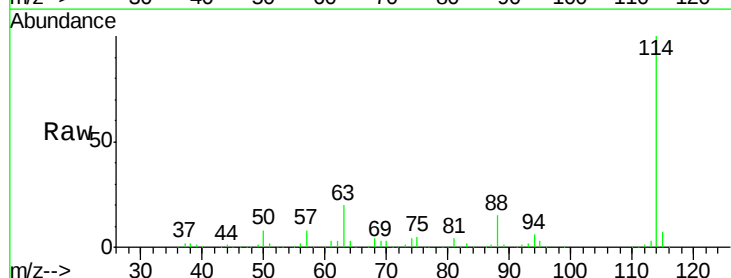
Tgt Ion: 114 Resp: 402801

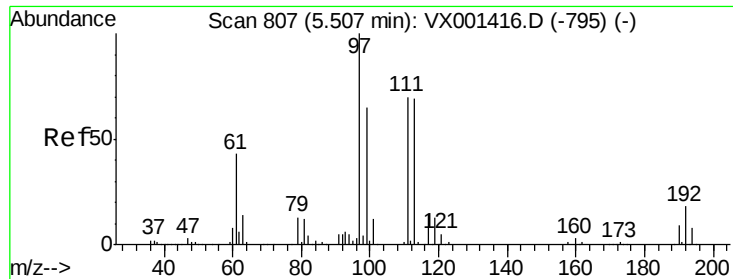
Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.6

88 14.8 0.0 30.8

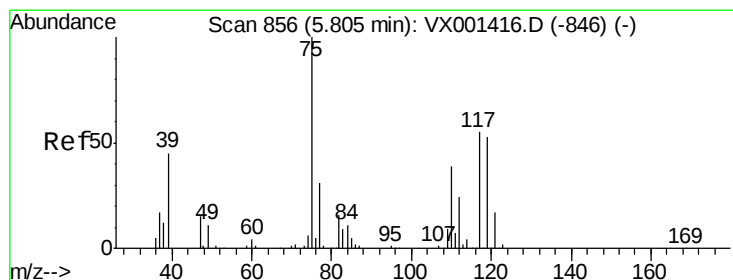
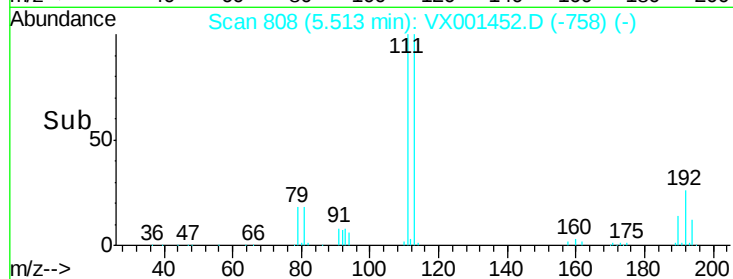
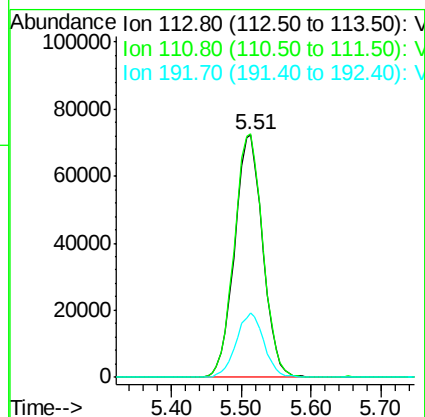
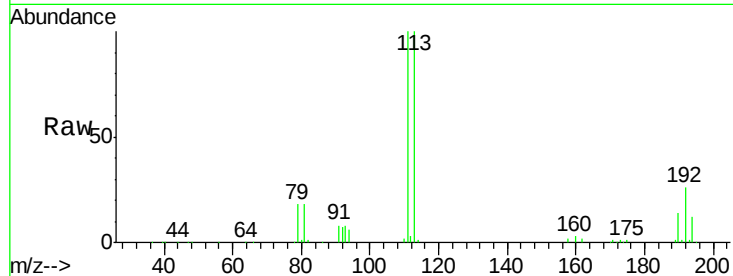




#35  
 Dibromofluoromethane  
 Concen: 56.38 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. 0.01 min  
 Lab File: VX001452.D  
 Acq: 06 May 2018 18:51

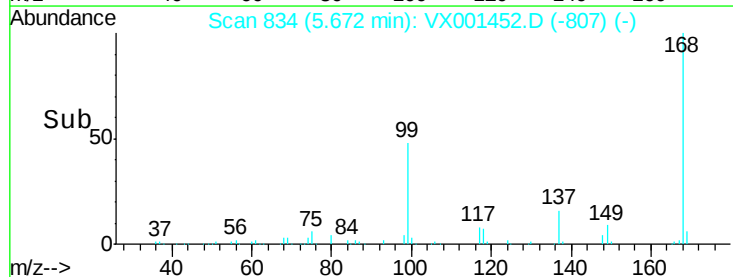
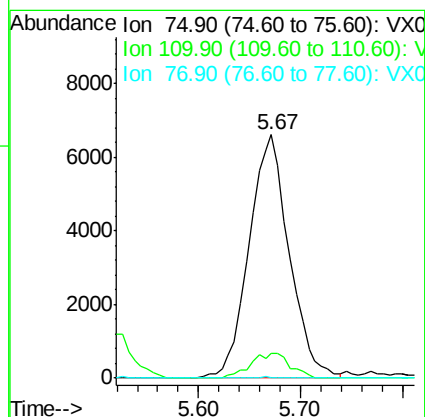
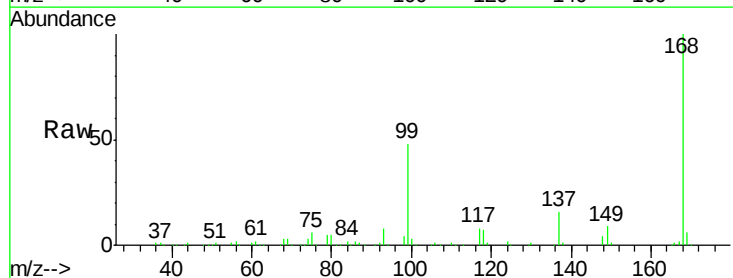
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 MSVOA\_X  
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 BPS1-TT-MW309D-20180429

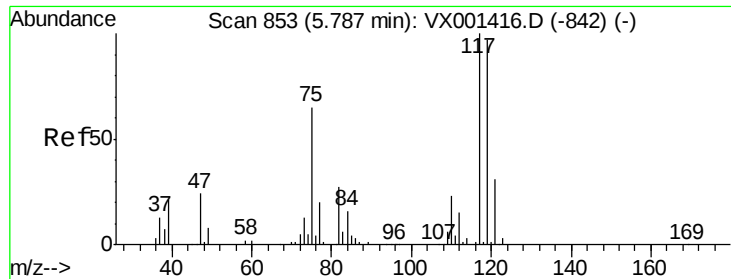
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.6 | 82.2  | 123.2 |
| 192     | 26.2  | 21.4  | 32.0  |



#36  
 1,1-Dichloropropene  
 Concen: 3.52 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001452.D  
 Acq: 06 May 2018 18:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.0  | 18.9  | 56.7# |
| 77      | 0.1   | 24.9  | 37.3# |





#38

Carbon Tetrachloride

Concen: 4.59 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW309D-20180429

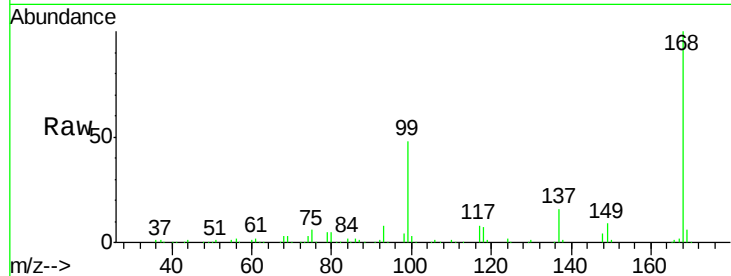
Tgt Ion:117 Resp: 25094

Ion Ratio Lower Upper

117 100

119 6.2 77.0 115.6#

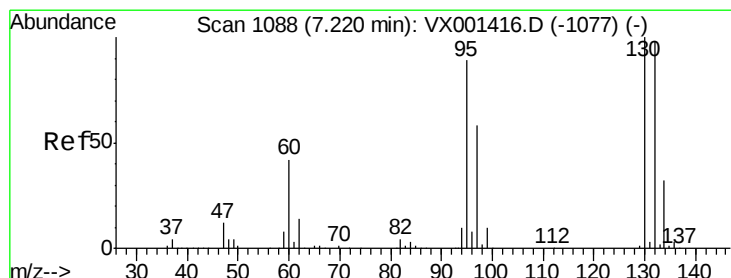
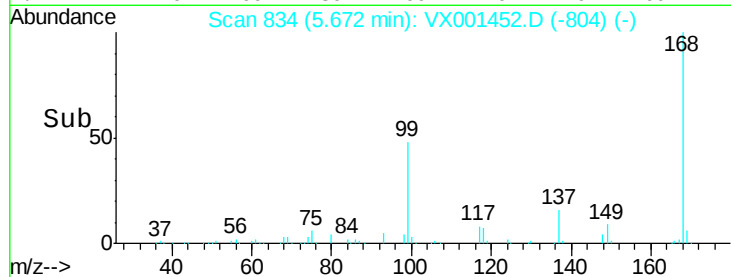
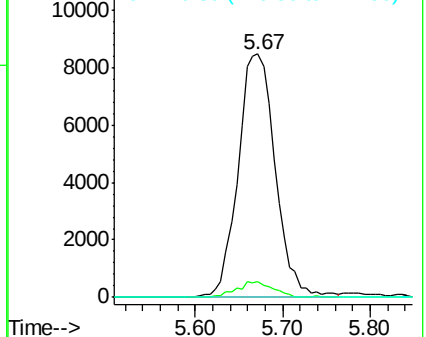
121 0.0 25.1 37.7#



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



#44

Trichloroethene

Concen: 0.31 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001452.D

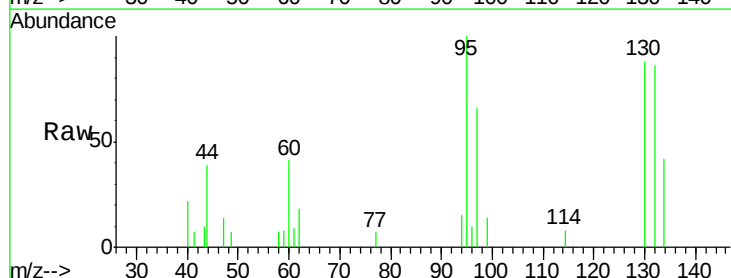
Acq: 06 May 2018 18:51

Tgt Ion:130 Resp: 1440

Ion Ratio Lower Upper

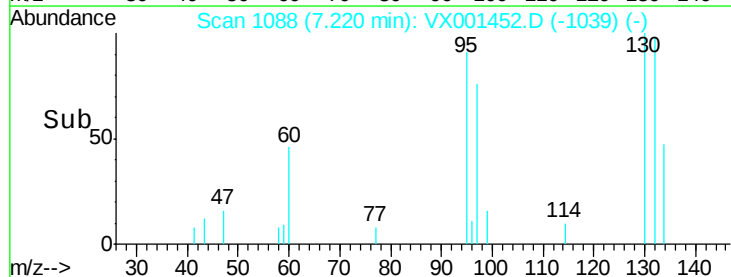
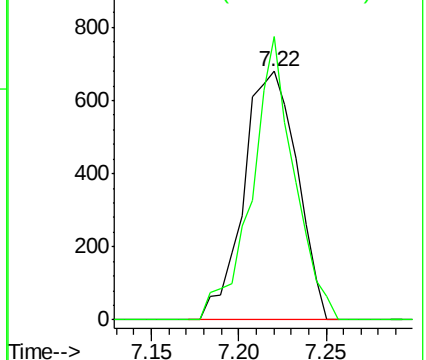
130 100

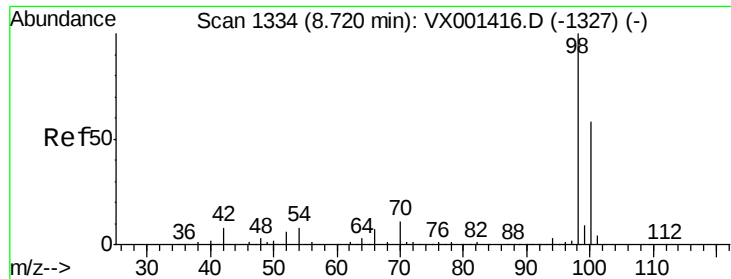
95 114.0 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 54.66 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

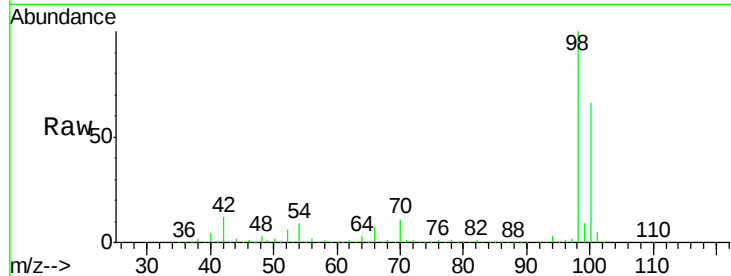
BPS1-TT-MW309D-20180429

Tgt Ion: 98 Resp: 714886

Ion Ratio Lower Upper

98 100

100 65.6 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

500000

400000

300000

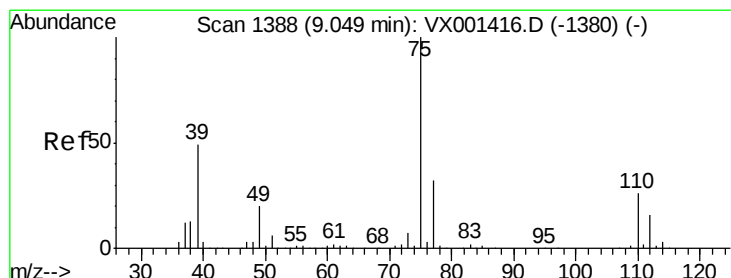
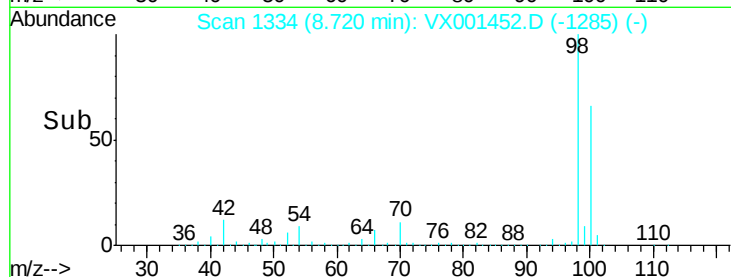
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#54

cis-1,3-Dichloropropene

Concen: 2.27 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. -0.00 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

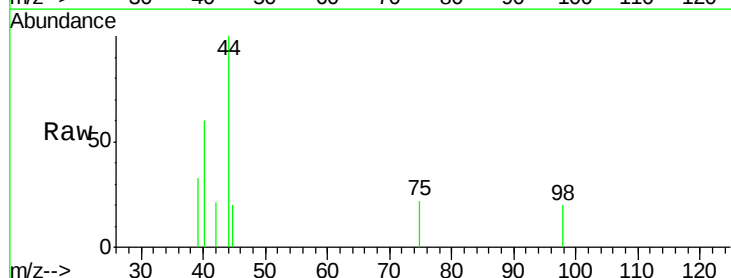
Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 151.8 38.9 58.3#



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

120

100

80

60

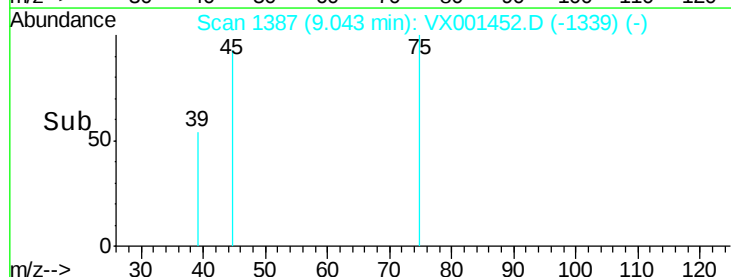
40

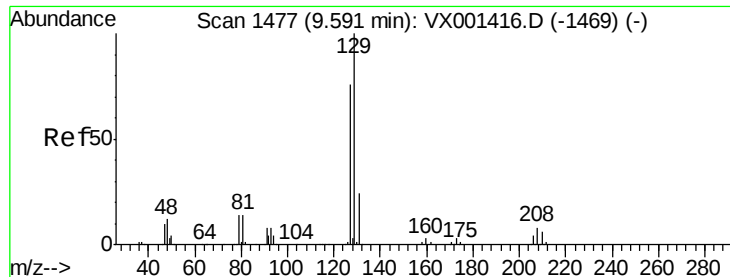
20

0

Time-->

9.02 9.03 9.04 9.05 9.06





#60

Dibromochloromethane

Concen: 0.64 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

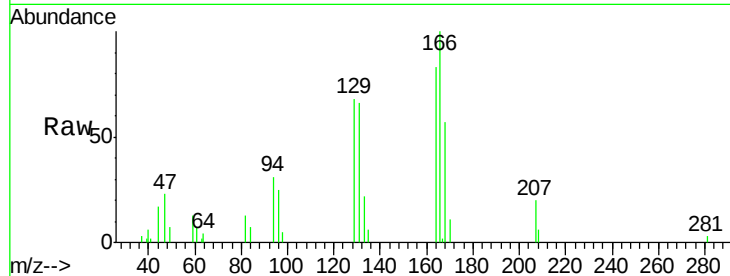
BPS1-TT-MW309D-20180429

Tgt Ion:129 Resp: 2574

Ion Ratio Lower Upper

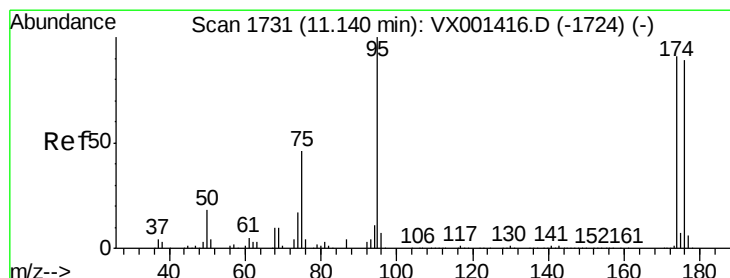
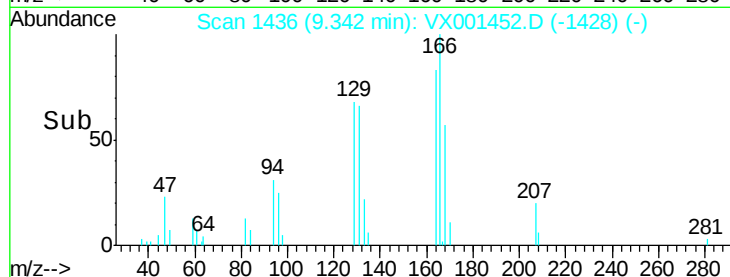
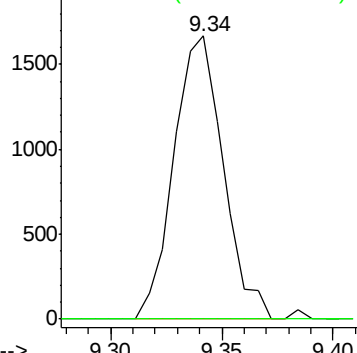
129 100

127 0.0 38.1 114.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

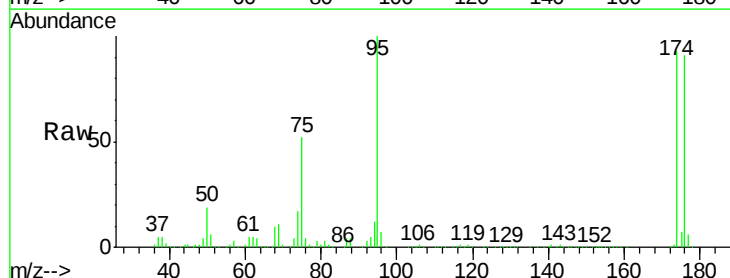
Tgt Ion: 95 Resp: 239577

Ion Ratio Lower Upper

95 100

174 101.1 0.0 202.0

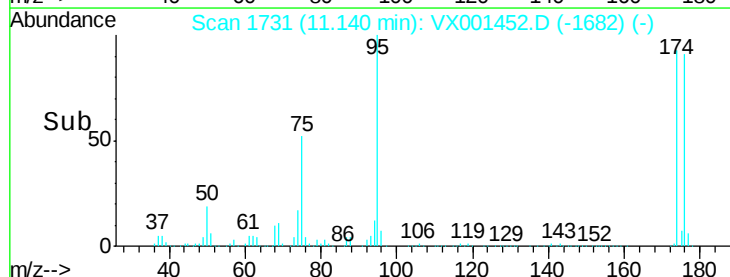
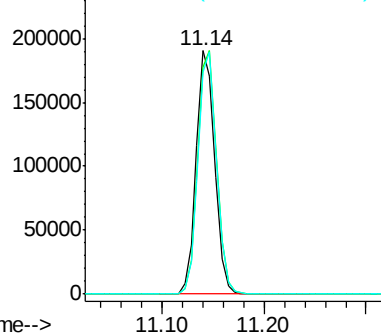
176 99.0 0.0 197.4

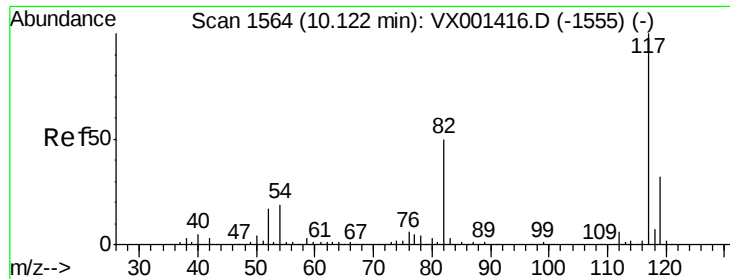


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

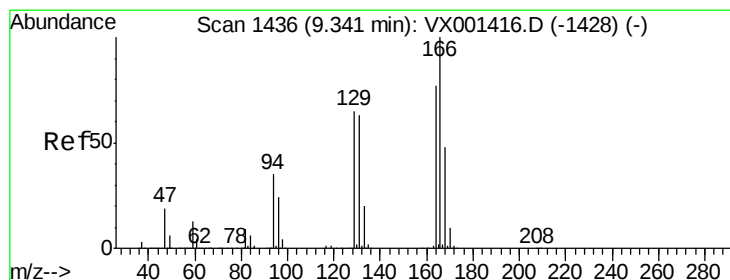
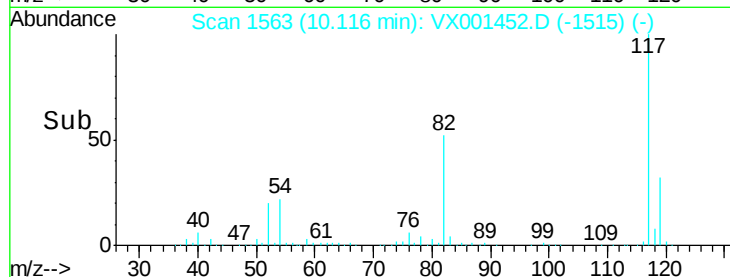
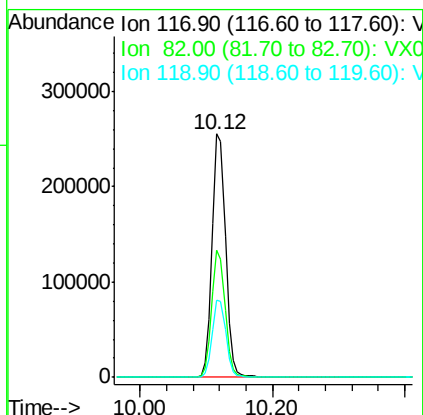
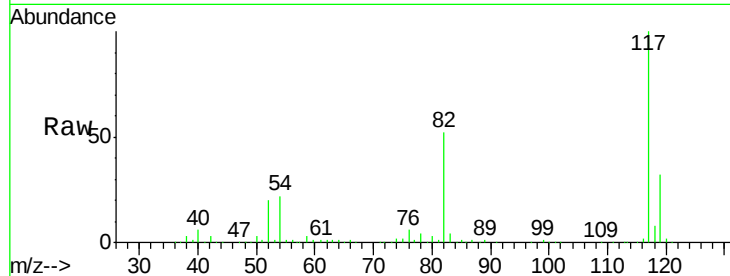




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.01 min  
Lab File: VX001452.D  
Acq: 06 May 2018 18:51

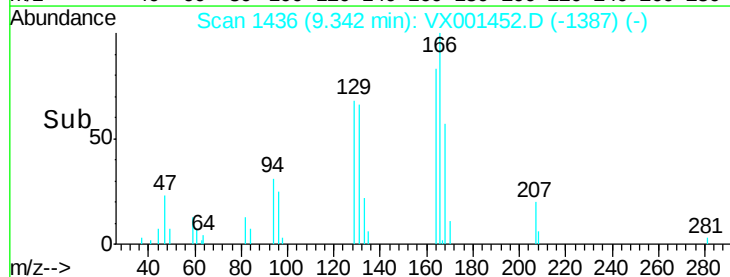
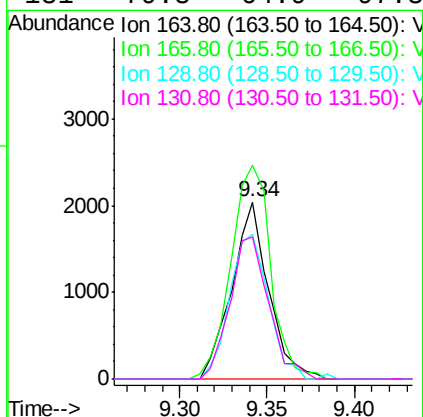
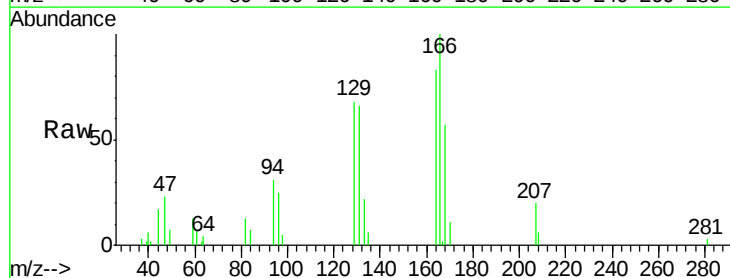
Instrument :  
MSVOA\_X  
ClientSampleId :  
BPS1-TT-MW309D-20180429

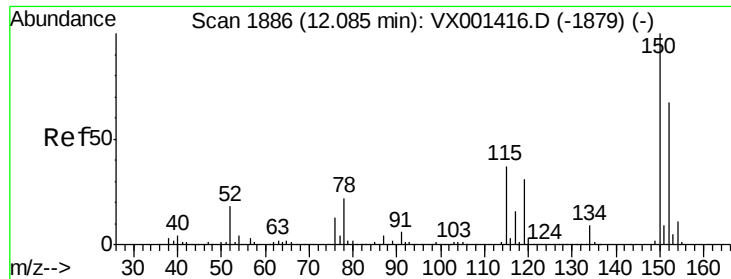
Tgt Ion:117 Resp: 361075  
Ion Ratio Lower Upper  
117 100  
82 52.5 40.0 60.0  
119 32.0 25.8 38.8



#64  
Tetrachloroethene  
Concen: 0.60 ug/l  
RT: 9.34 min Scan# 1436  
Delta R.T. 0.00 min  
Lab File: VX001452.D  
Acq: 06 May 2018 18:51

Tgt Ion:164 Resp: 3001  
Ion Ratio Lower Upper  
164 100  
166 120.5 103.5 155.3  
129 81.5 66.7 100.1  
131 79.8 64.9 97.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW309D-20180429

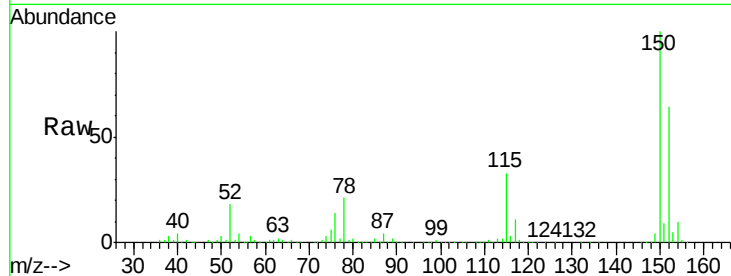
Tgt Ion:152 Resp: 200036

Ion Ratio Lower Upper

152 100

115 52.5 37.7 113.1

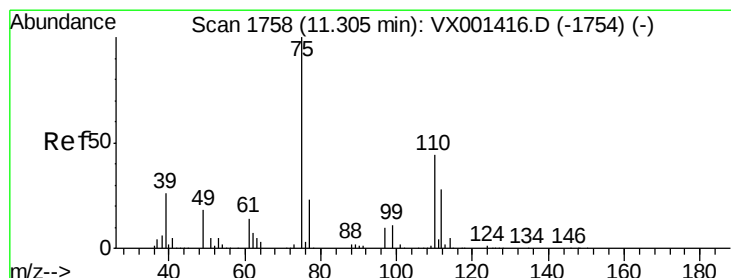
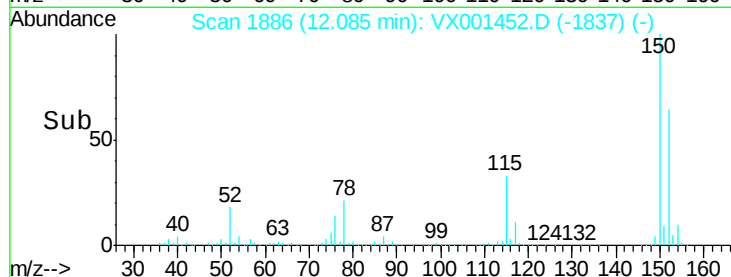
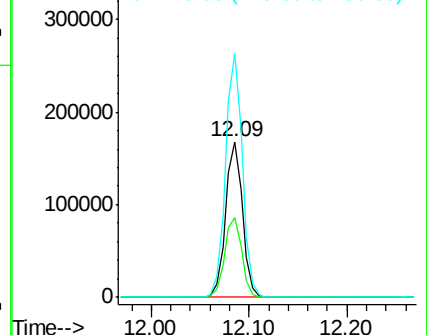
150 156.3 0.0 349.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 30.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001452.D

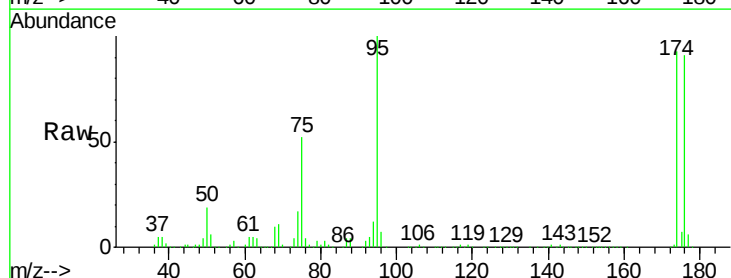
Acq: 06 May 2018 18:51

Tgt Ion: 75 Resp: 122054

Ion Ratio Lower Upper

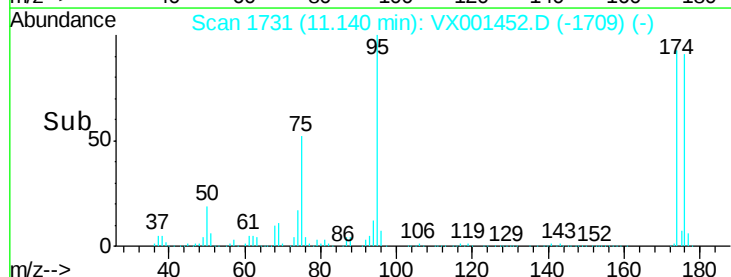
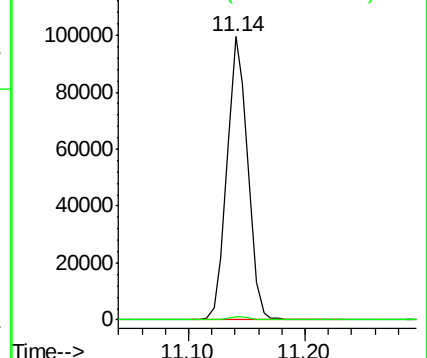
75 100

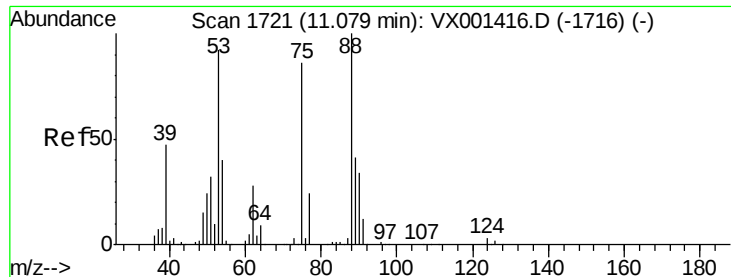
77 1.3 19.6 58.7#



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: 91.98 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001452.D

Acq: 06 May 2018 18:51

Instrument :

MSVOA\_X

ClientSampleId :

BPS1-TT-MW309D-20180429

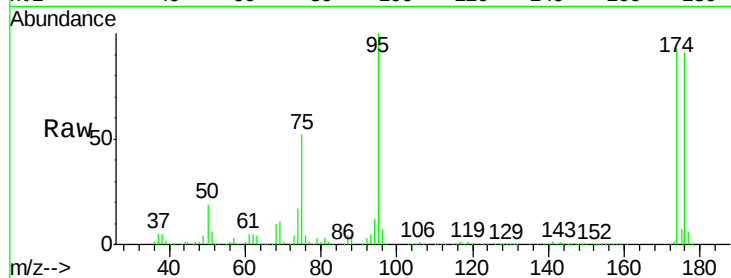
Tgt Ion: 75 Resp: 122054

Ion Ratio Lower Upper

75 100

53 0.1 84.5 126.7#

89 0.0 39.5 59.3#



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

