

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060719\  
 Data File : VX010116.D  
 Acq On : 07 Jun 2019 18:14  
 Operator : JC/SP  
 Sample : K3221-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-AOC22-MW06-20190604

Quant Time: Jun 08 02:22:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 349587   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 537517   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 479783   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 227036   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 169065   | 49.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.08%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 167684   | 50.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.16% |          |
| 50) Toluene-d8              | 8.71  | 98   | 626194   | 50.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.78% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 225151   | 48.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.04%  |          |

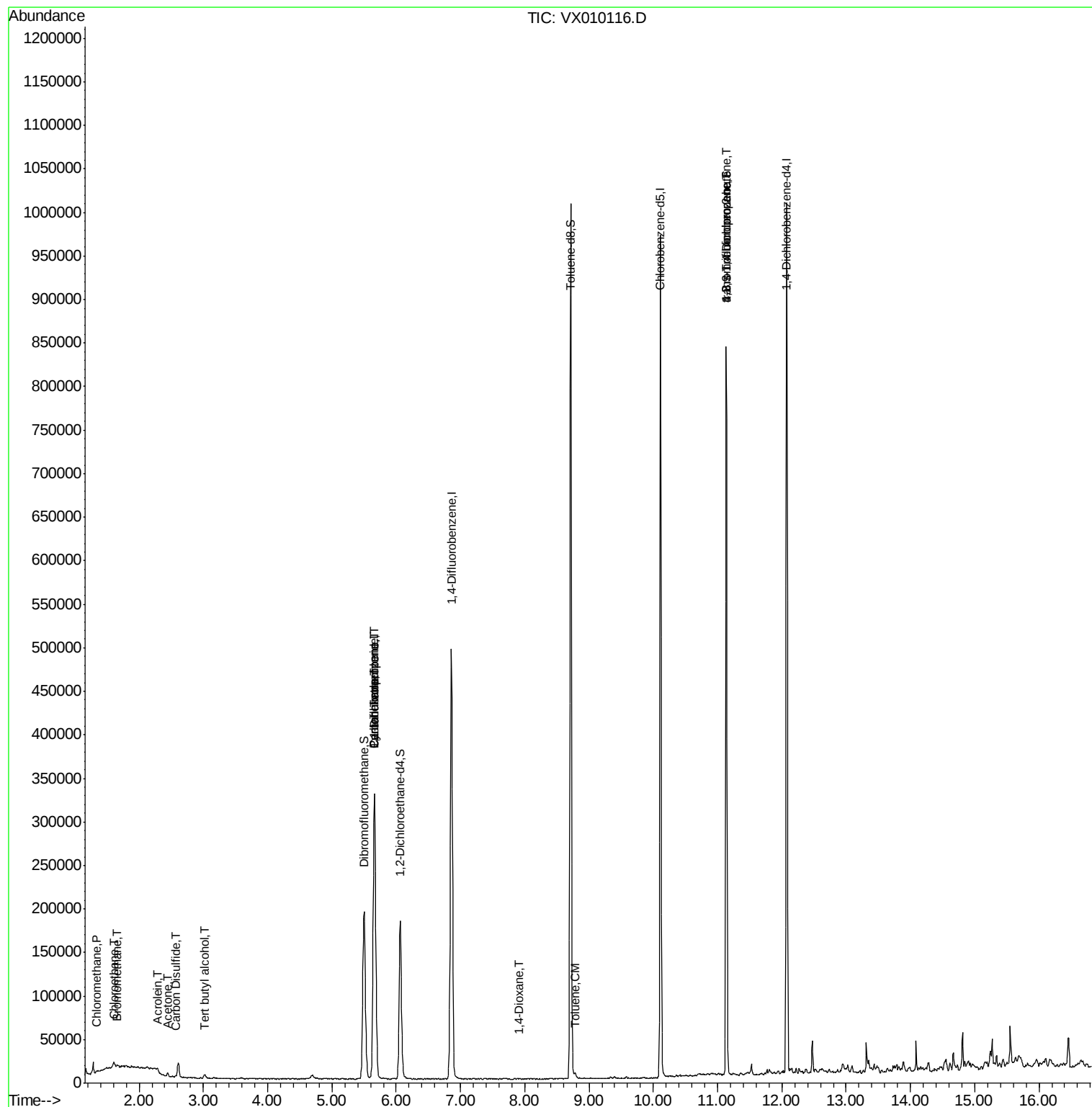
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.34  | 50   | 722      | 0.226  | ug/l   | 93     |
| 5) Bromomethane                | 1.65  | 94   | 416      | 0.367  | ug/l # | 79     |
| 6) Chloroethane                | 1.62  | 64   | 454      | 0.300  | ug/l # | 43     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2692     | 3.220  | ug/l # | 77     |
| 13) Acrolein                   | 2.29  | 56   | 204      | 1.338  | ug/l # | 14     |
| 16) Acetone                    | 2.44  | 43   | 4488     | 2.796  | ug/l   | 90     |
| 17) Carbon Disulfide           | 2.57  | 76   | 2325     | 0.256  | ug/l # | 93     |
| 31) Cyclohexane                | 5.66  | 56   | 5545     | 1.117  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 21173    | 4.828  | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 31031    | 6.252  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.91  | 88   | 22       | 0.216  | ug/l # | 18     |
| 52) Toluene                    | 8.79  | 92   | 2151     | 0.241  | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 102500   | 22.571 | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 102500   | 49.870 | ug/l # | 10     |

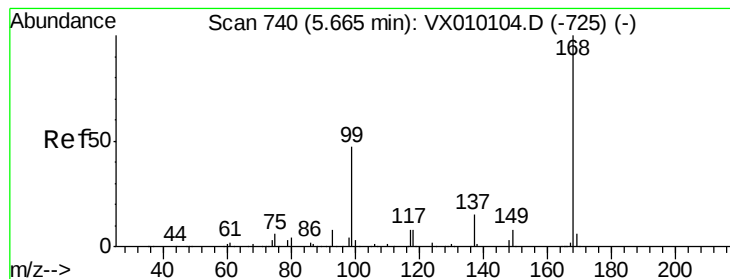
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX060719\  
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Instrument :  
MSVOA\_X  
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BP-TT-AOC22-MW06-20190604

Quant Time: Jun 08 02:22:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 08 02:12:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

Instrument :

MSVOA\_X

ClientSampleId :

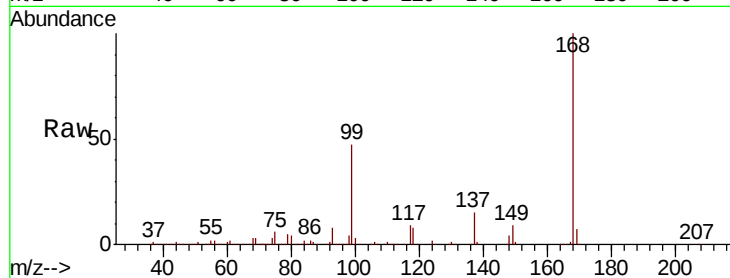
BP-TT-AOC22-MW06-20190604

Tot Ion:168 Resp: 349587

Ion Ratio Lower Upper

168 100

99 46.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

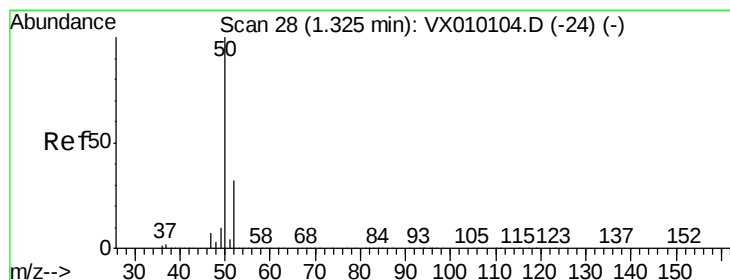
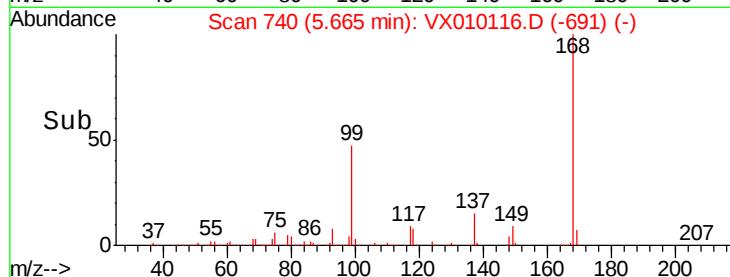
5.67

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.226 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX010116.D

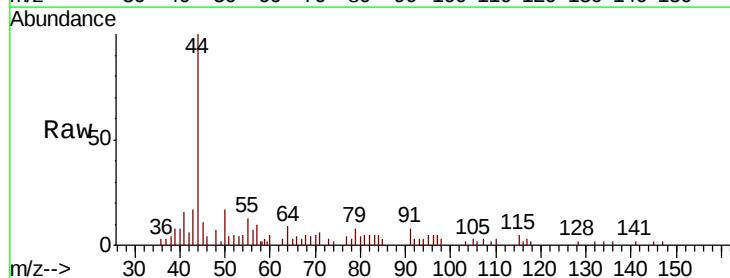
Acq: 07 Jun 2019 18:14

Tgt Ion: 50 Resp: 722

Ion Ratio Lower Upper

50 100

52 36.5 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

600

500

400

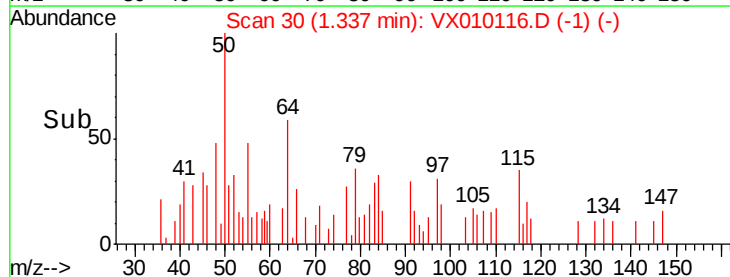
300

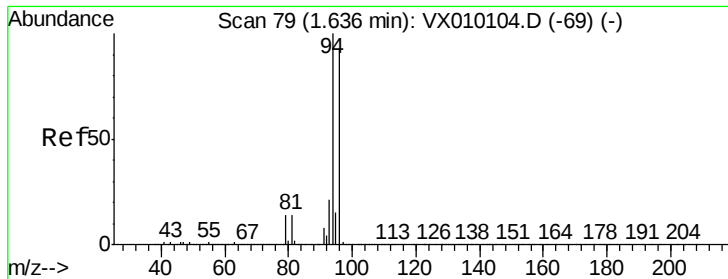
200

100

0

Time-->





#5

Bromomethane

Concen: 0.367 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

Instrument :

MSVOA\_X

ClientSampleId :

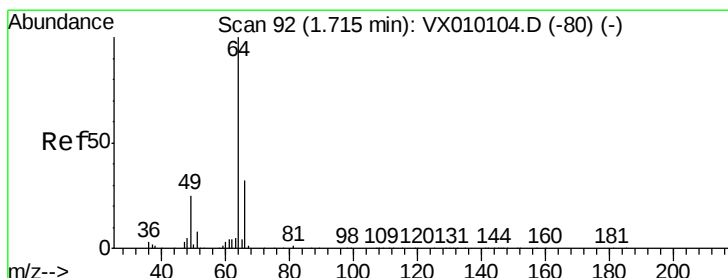
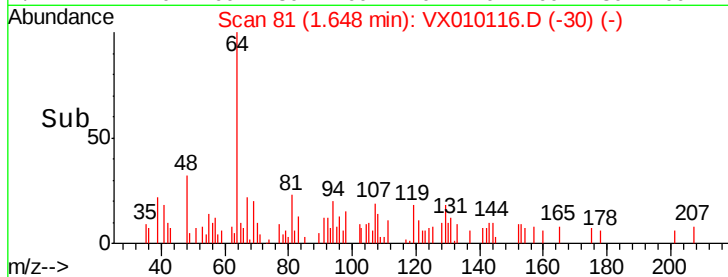
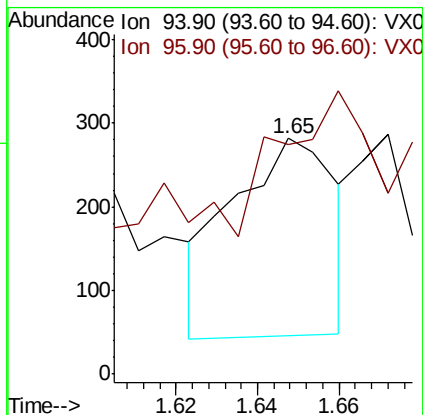
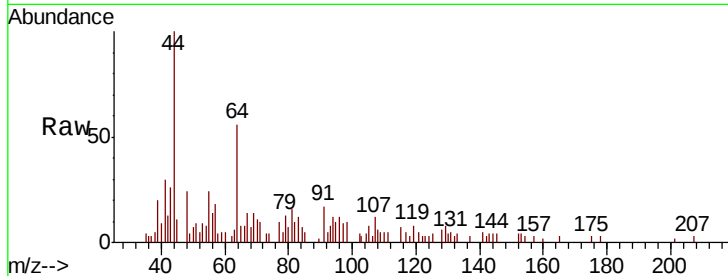
BP-TT-AOC22-MW06-20190604

Tot Ion: 94 Resp: 416

Ion Ratio Lower Upper

94 100

96 75.0 76.2 114.4#



#6

Chloroethane

Concen: 0.300 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.09 min

Lab File: VX010116.D

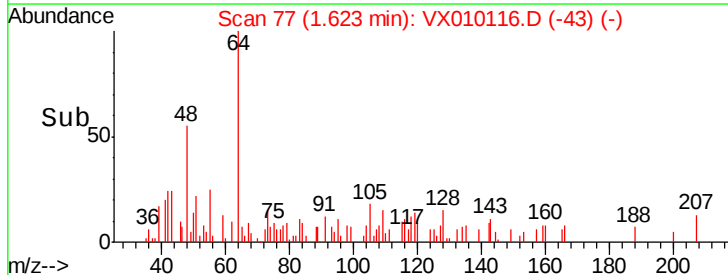
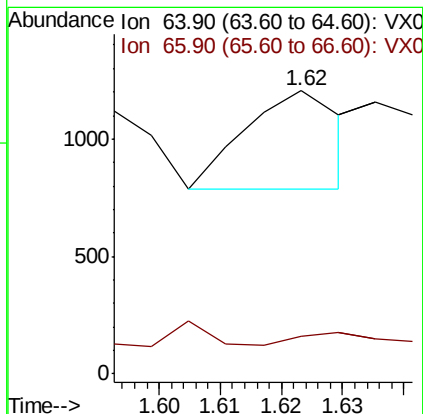
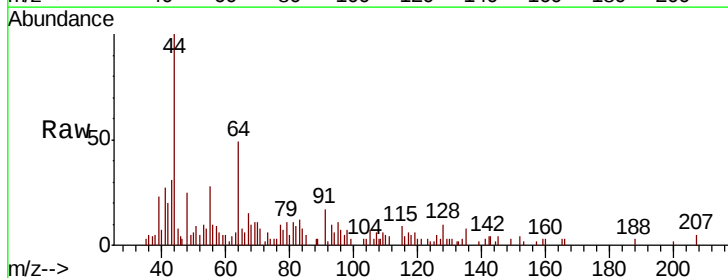
Acq: 07 Jun 2019 18:14

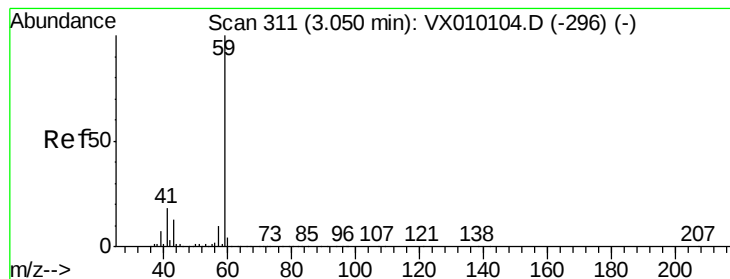
Tgt Ion: 64 Resp: 454

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



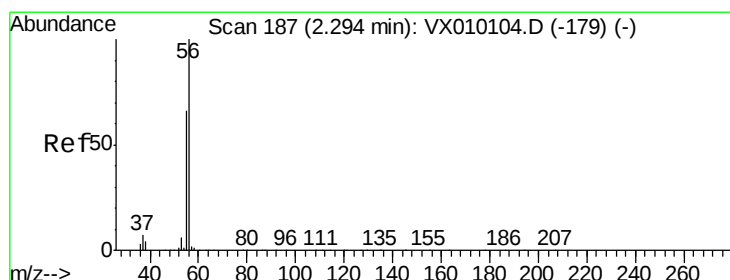
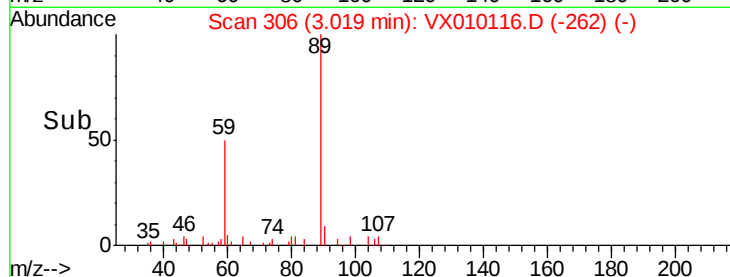
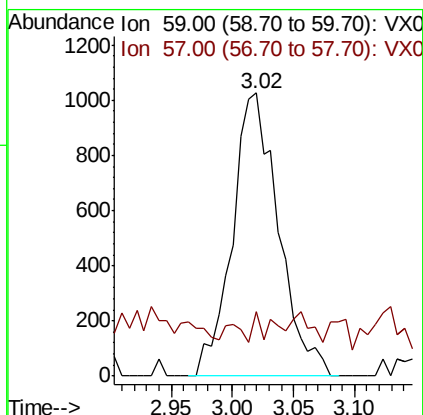
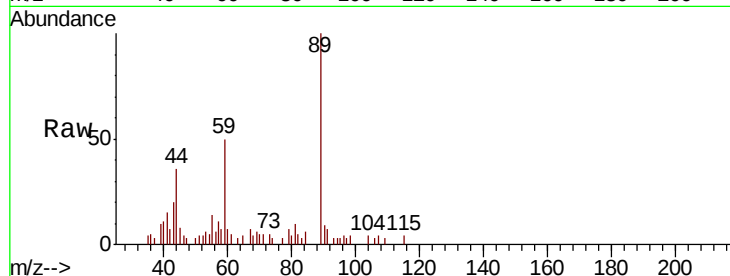


#11

Tert butyl alcohol  
Concen: 3.220 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.03 min  
Lab File: VX010116.D  
Acq: 07 Jun 2019 18:14

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW06-20190604

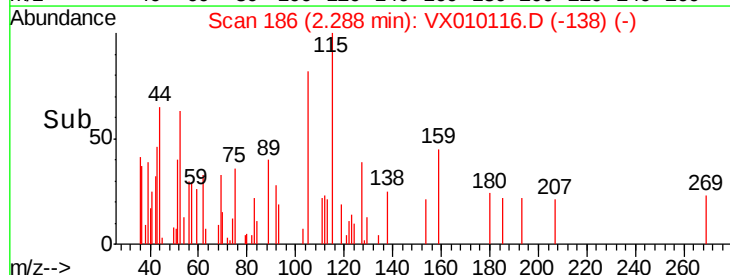
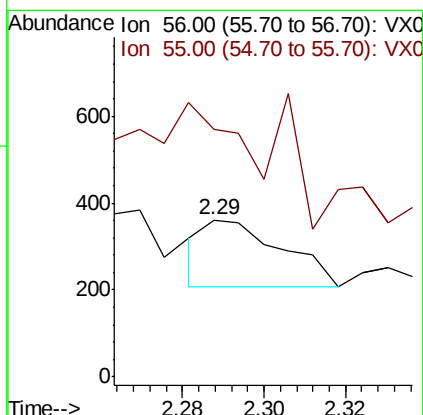
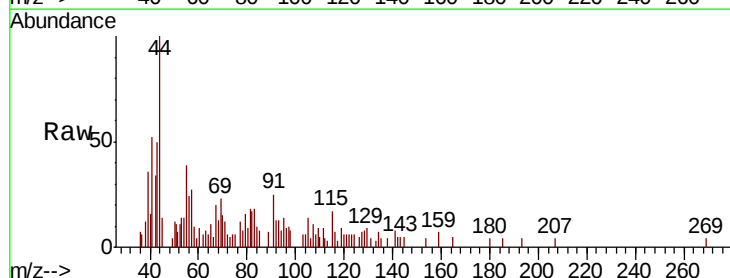
Tot Ion: 59 Resp: 2692  
Ion Ratio Lower Upper  
59 100  
57 1.6 8.2 12.2#

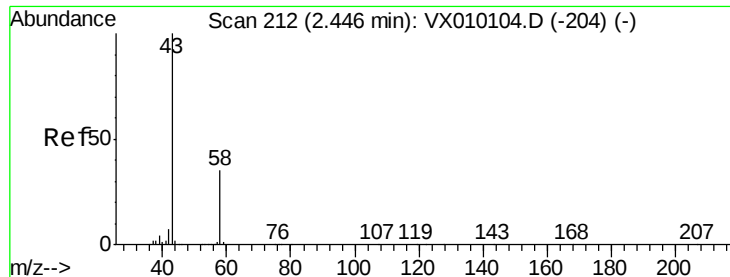


#13

Acrolein  
Concen: 1.338 ug/l  
RT: 2.29 min Scan# 186  
Delta R.T. -0.01 min  
Lab File: VX010116.D  
Acq: 07 Jun 2019 18:14

Tgt Ion: 56 Resp: 204  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.0 85.4#





#16

Acetone

Concen: 2.796 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

Instrument :

MSVOA\_X

ClientSampleId :

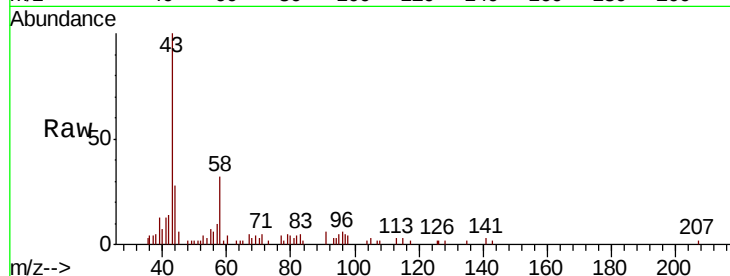
BP-TT-AOC22-MW06-20190604

Tot Ion: 43 Resp: 4488

Ion Ratio Lower Upper

43 100

58 34.1 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

3000

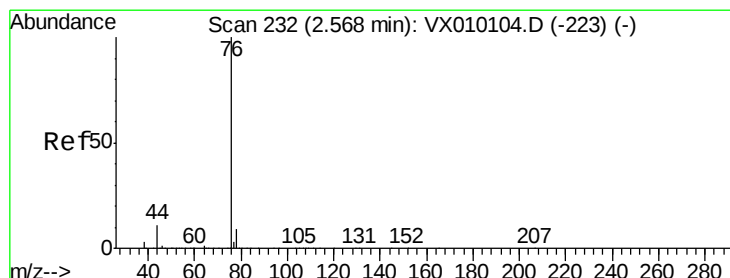
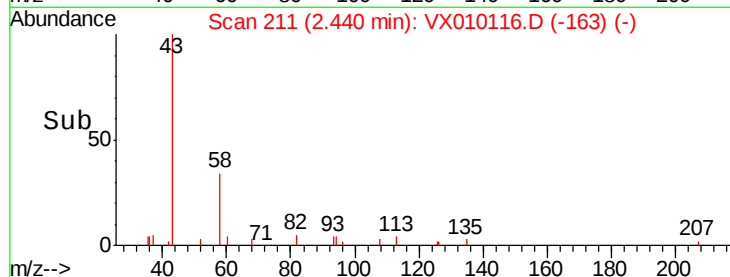
2000

1000

0

Time-->

2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.256 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010116.D

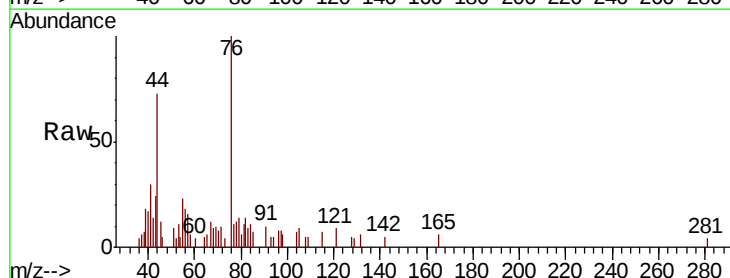
Acq: 07 Jun 2019 18:14

Tgt Ion: 76 Resp: 2325

Ion Ratio Lower Upper

76 100

78 6.3 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

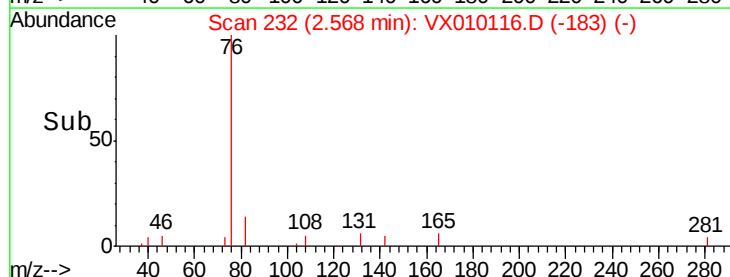
1000

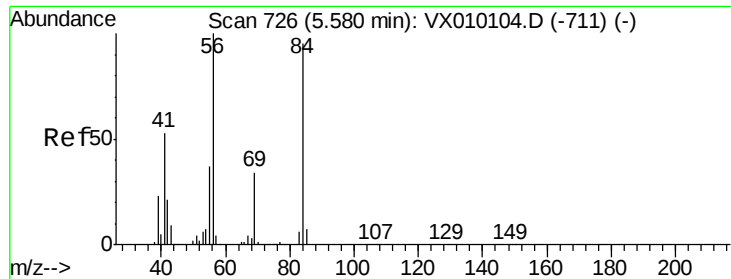
500

0

Time-->

2.50 2.55 2.60 2.65

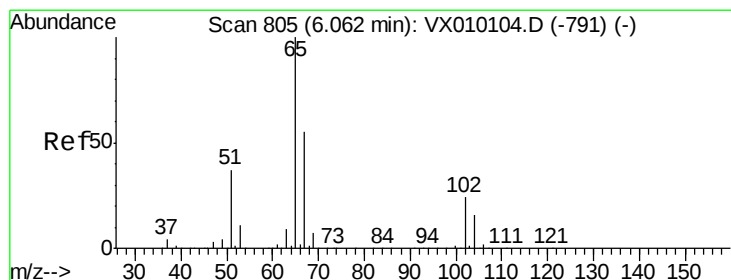
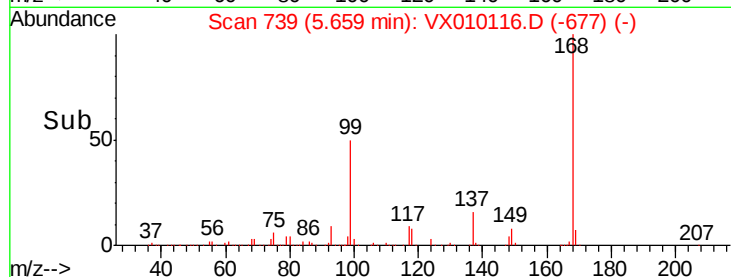
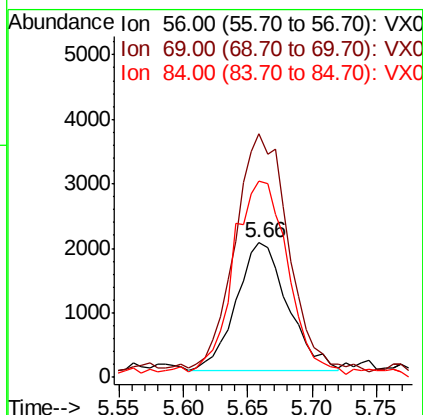
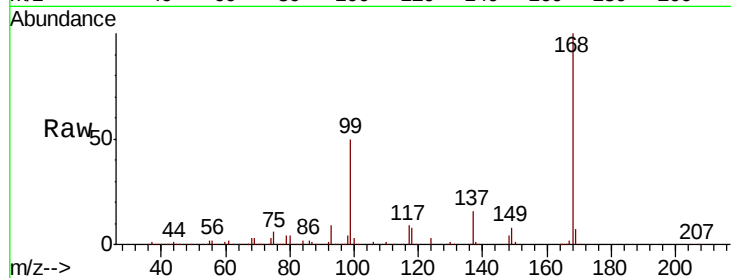




#31  
Cyclohexane  
Concen: 1.117 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.08 min  
Lab File: VX010116.D  
Acq: 07 Jun 2019 18:14

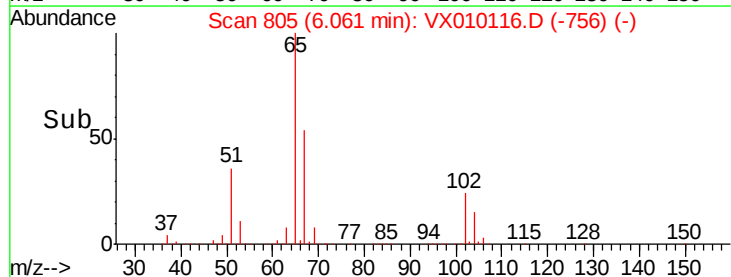
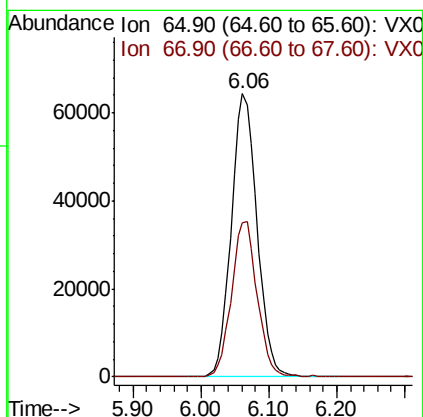
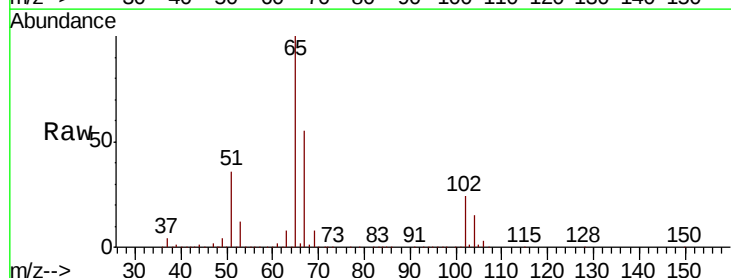
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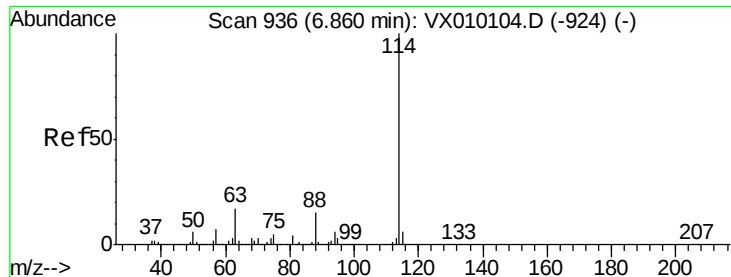
Tot Ion: 56 Resp: 5545  
Ion Ratio Lower Upper  
56 100  
69 182.5 21.6 32.4#  
84 148.9 56.8 85.2#



#33  
1,2-Dichloroethane-d4  
Concen: 49.545 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX010116.D  
Acq: 07 Jun 2019 18:14

Tgt Ion: 65 Resp: 169065  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW06-20190604

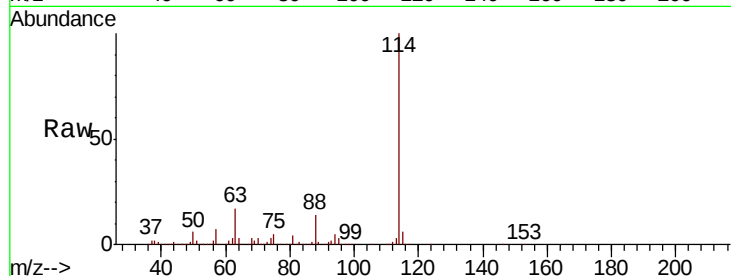
Tot Ion:114 Resp: 537517

Ion Ratio Lower Upper

114 100

63 17.5 0.0 47.4

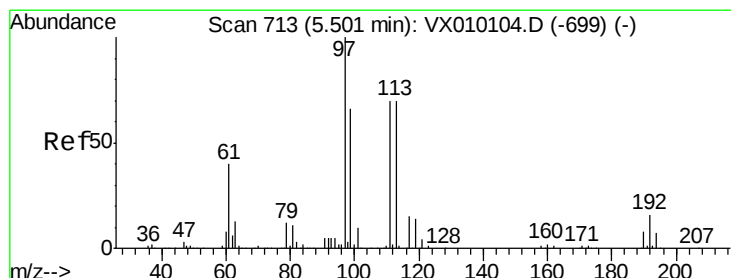
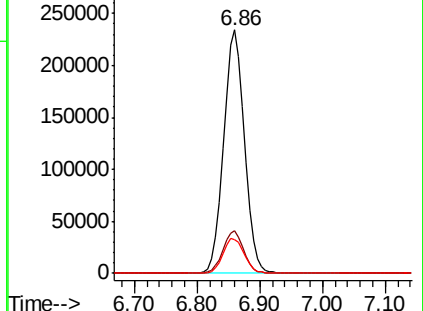
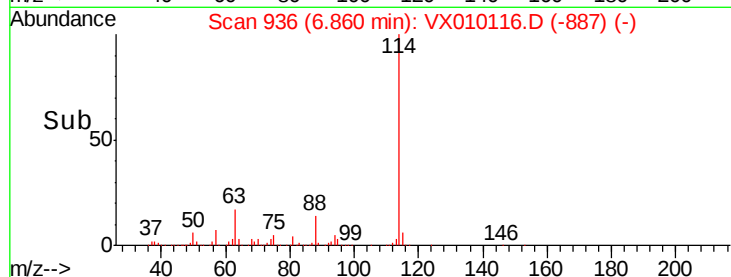
88 14.0 0.0 33.0



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: 50.575 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

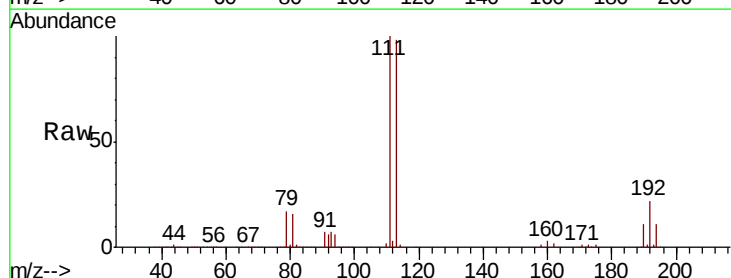
Tgt Ion:113 Resp: 167684

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.2

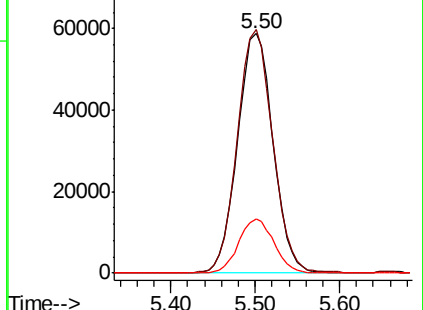
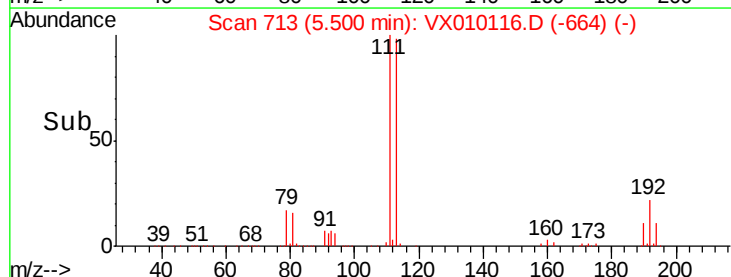
192 22.5 17.1 25.7

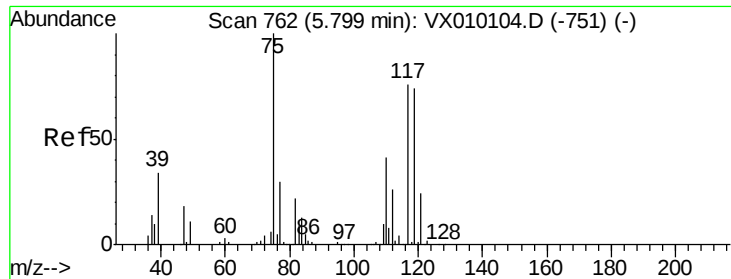


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

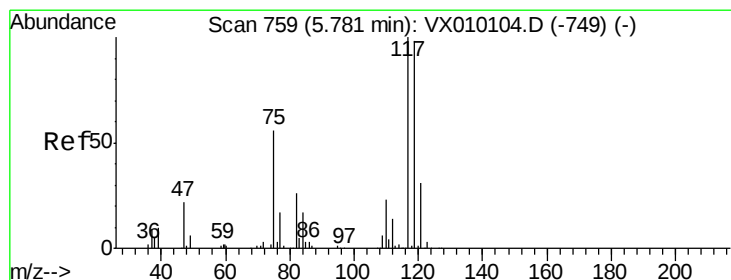
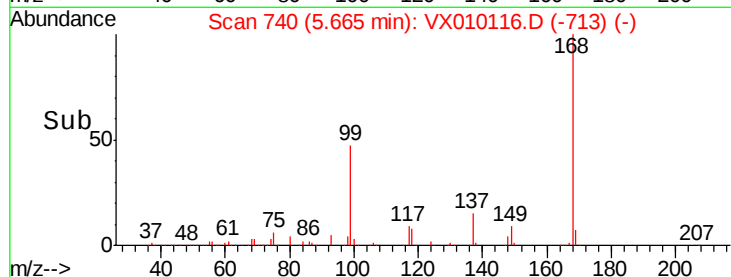
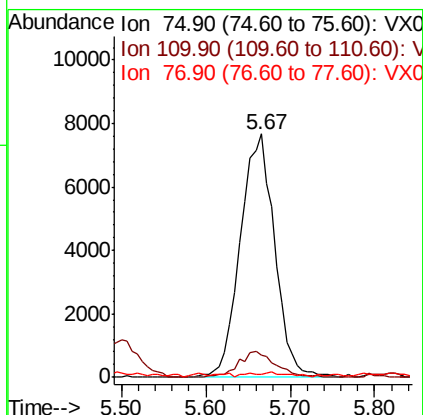
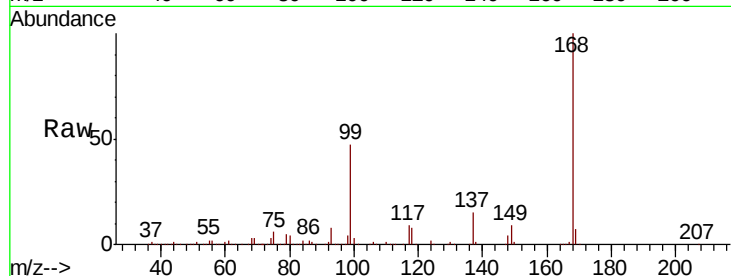




#36  
 1,1-Dichloropropene  
 Concen: 4.828 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX010116.D  
 Acq: 07 Jun 2019 18:14

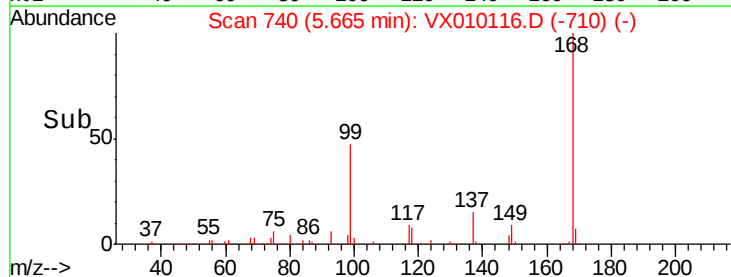
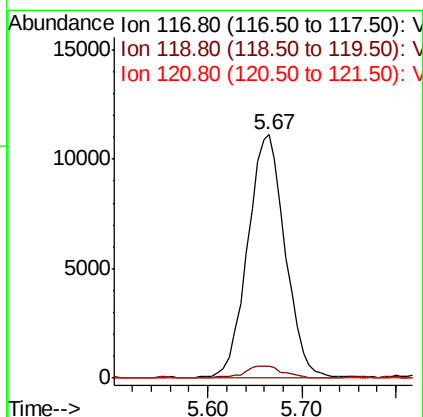
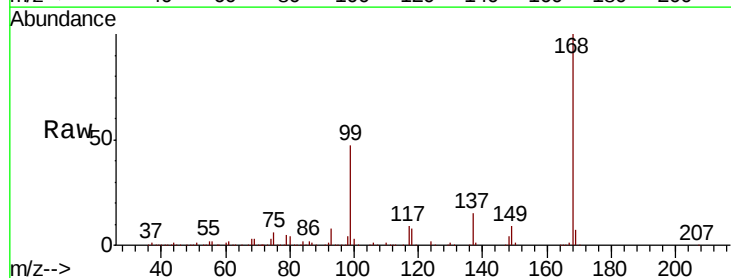
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-AOC22-MW06-20190604

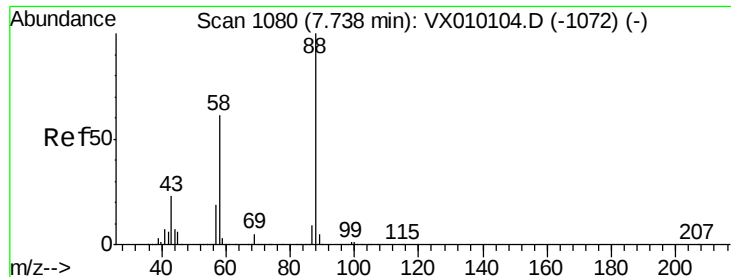
Tot Ion: 75 Resp: 21173  
 Ion Ratio Lower Upper  
 75 100  
 110 11.4 16.7 50.1#  
 77 0.9 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.252 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX010116.D  
 Acq: 07 Jun 2019 18:14

Tgt Ion: 117 Resp: 31031  
 Ion Ratio Lower Upper  
 117 100  
 119 5.1 77.3 115.9#  
 121 0.0 25.4 38.0#

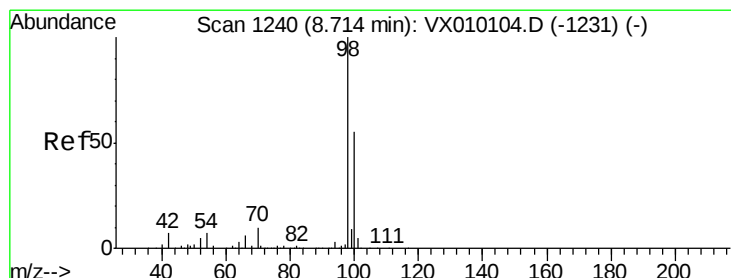
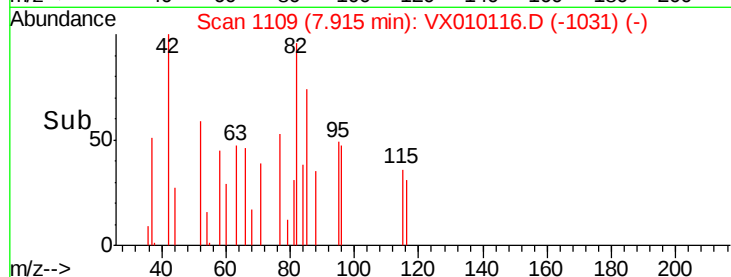
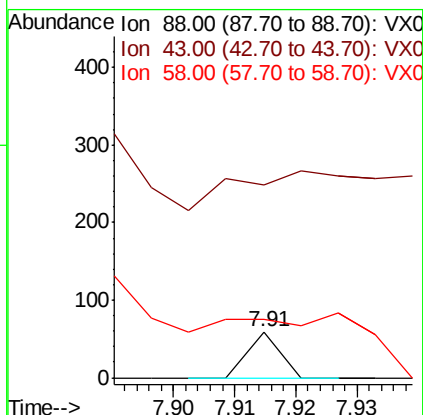
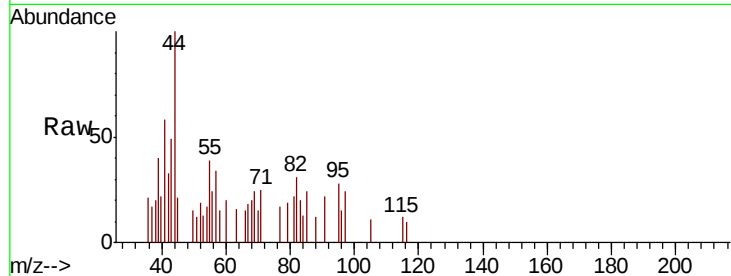




#49  
 1,4-Dioxane  
 Concen: 0.216 ug/l  
 RT: 7.91 min Scan# 1109  
 Delta R.T. 0.18 min  
 Lab File: VX010116.D  
 Acq: 07 Jun 2019 18:14

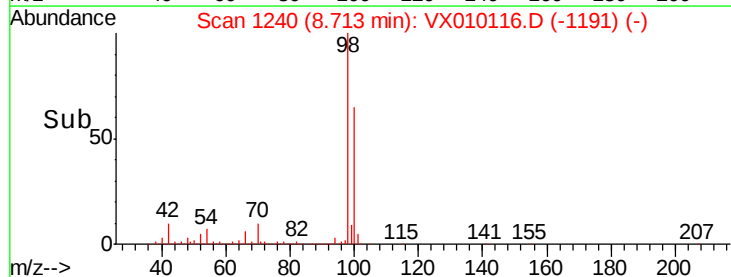
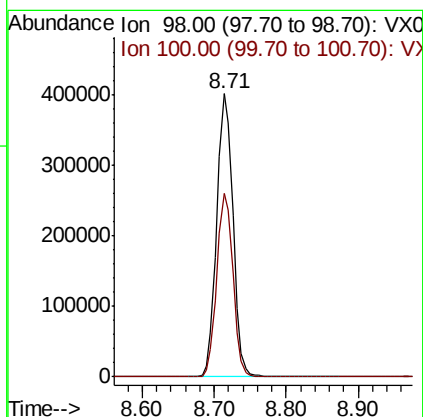
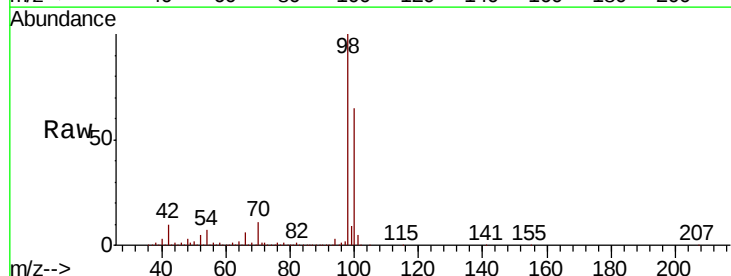
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-AOC22-MW06-20190604

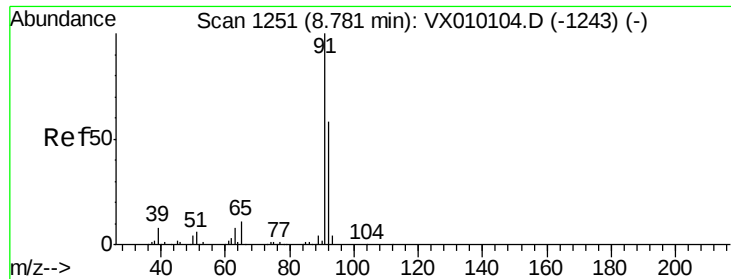
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 0.0   | 30.2  | 45.4# |
| 58      | 0.0   | 64.0  | 96.0# |



#50  
 Toluene-d8  
 Concen: 50.394 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. 0.00 min  
 Lab File: VX010116.D  
 Acq: 07 Jun 2019 18:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.5  | 51.5  | 77.3  |





#52

Toluene

Concen: 0.241 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

Instrument :

MSVOA\_X

ClientSampleId :

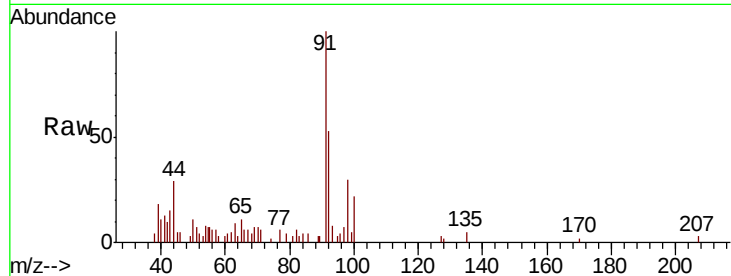
BP-TT-AOC22-MW06-20190604

Tot Ion: 92 Resp: 2151

Ion Ratio Lower Upper

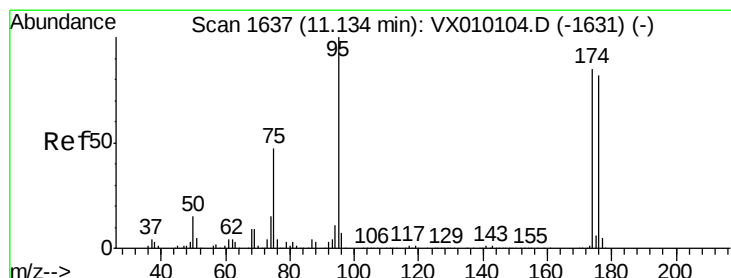
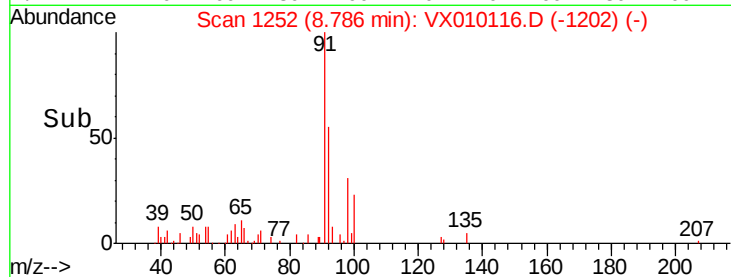
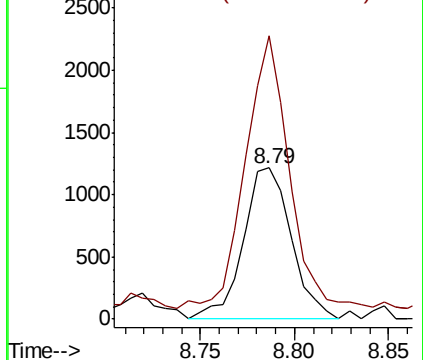
92 100

91 178.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 48.517 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

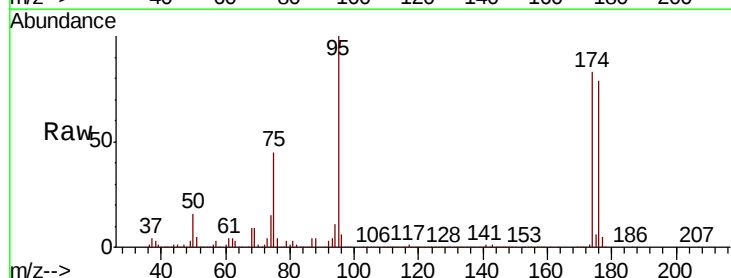
Tgt Ion: 95 Resp: 225151

Ion Ratio Lower Upper

95 100

174 89.3 0.0 160.4

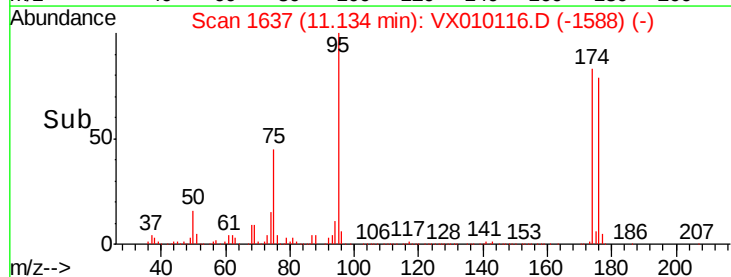
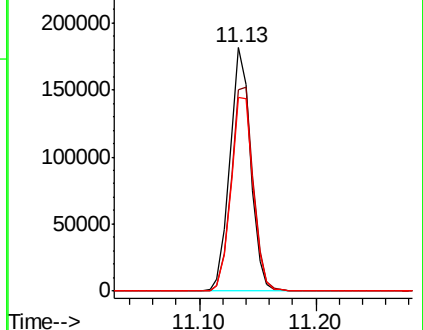
176 85.3 0.0 154.6

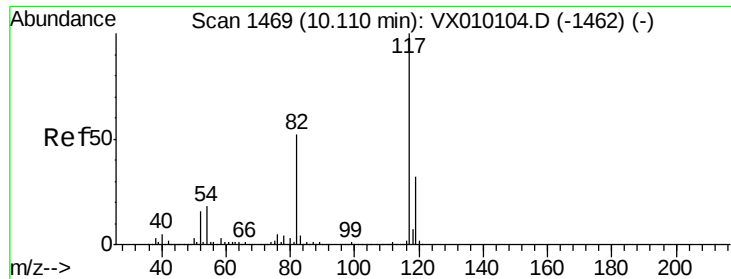


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

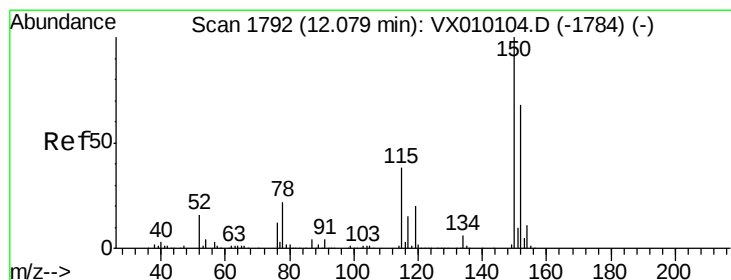
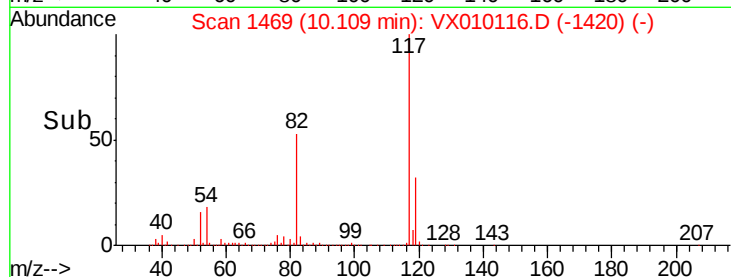
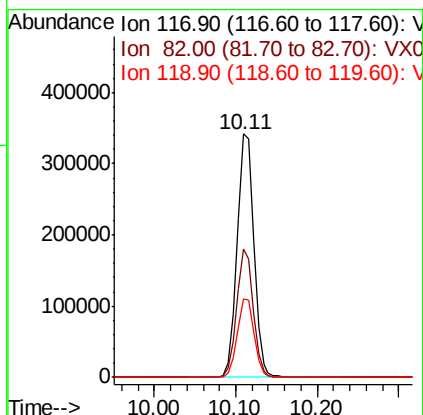
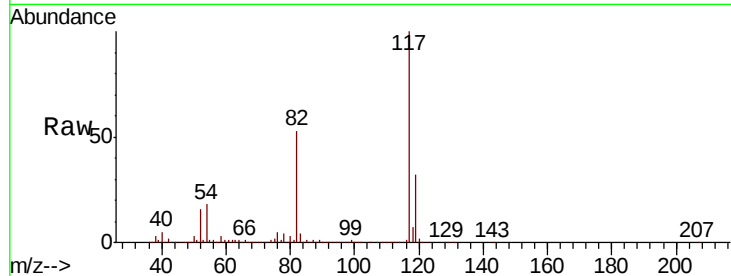




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX010116.D  
Acq: 07 Jun 2019 18:14

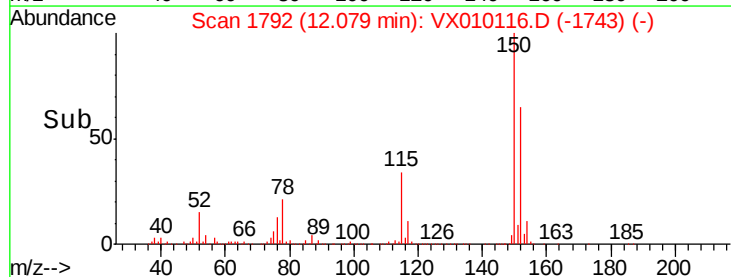
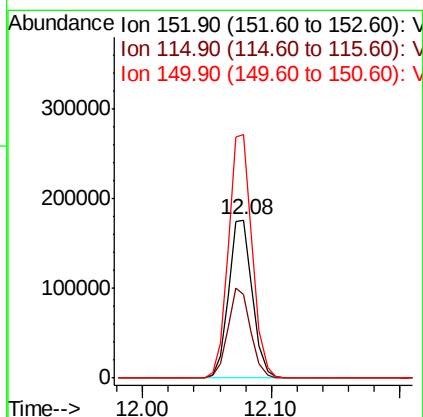
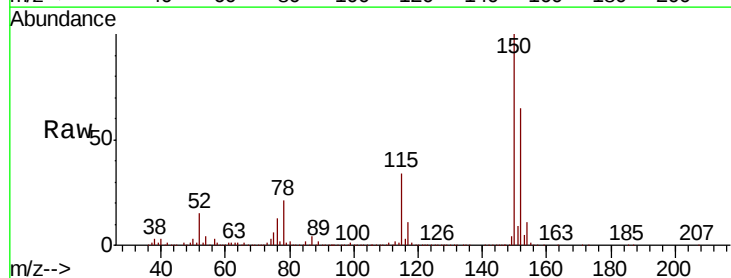
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW06-20190604

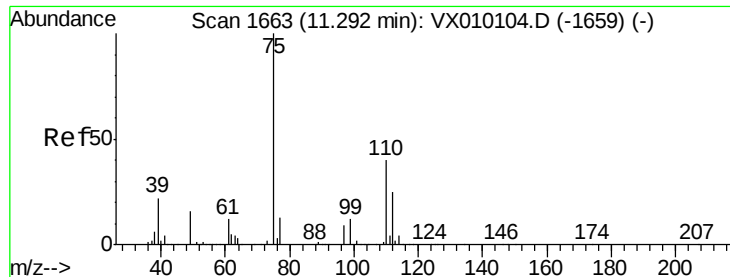
Tot Ion:117 Resp: 479783  
Ion Ratio Lower Upper  
117 100  
82 52.6 49.2 73.8  
119 32.2 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX010116.D  
Acq: 07 Jun 2019 18:14

Tgt Ion:152 Resp: 227036  
Ion Ratio Lower Upper  
152 100  
115 54.6 41.4 124.2  
150 154.8 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 22.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

Instrument :

MSVOA\_X

ClientSampleId :

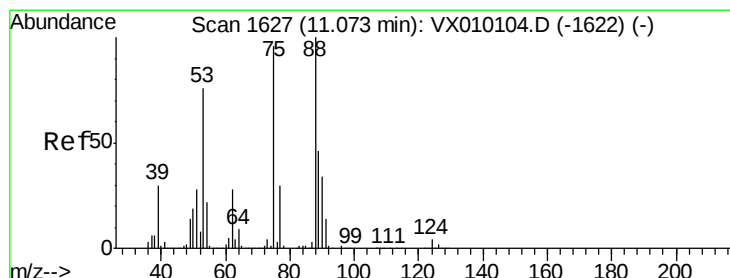
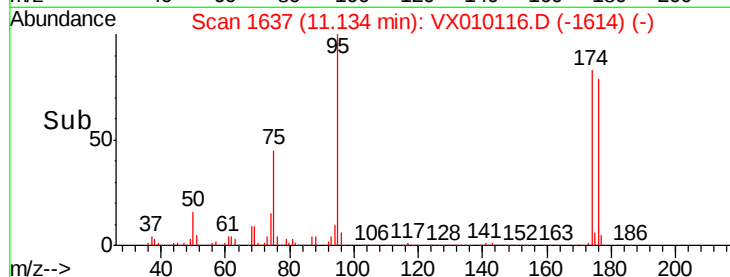
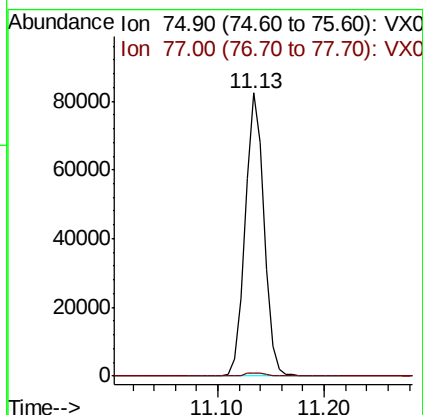
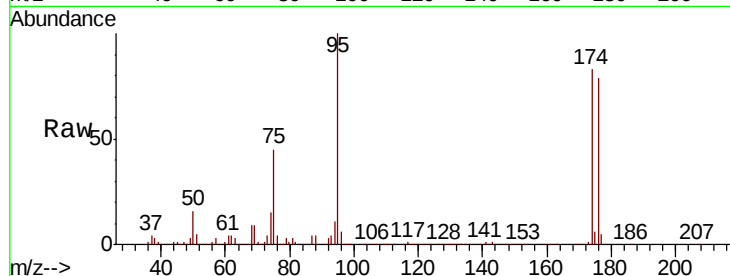
BP-TT-AOC22-MW06-20190604

Tot Ion: 75 Resp: 102500

Ion Ratio Lower Upper

75 100

77 1.2 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 49.870 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010116.D

Acq: 07 Jun 2019 18:14

Tgt Ion: 75 Resp: 102500

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.1 34.2 51.4#

