

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101818\  
 Data File : VW006193.D  
 Acq On : 18 Oct 2018 22:45  
 Operator : VA/AP  
 Sample : J5202-01  
 Misc : 6.15G/5ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PL-03-101718-A

Quant Time: Oct 19 06:05:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 250823   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 371059   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 314676   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 132243   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 106607   | 51.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.54% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 104509   | 47.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.34%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 361822   | 43.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.76%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 122576   | 39.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.24%  |          |

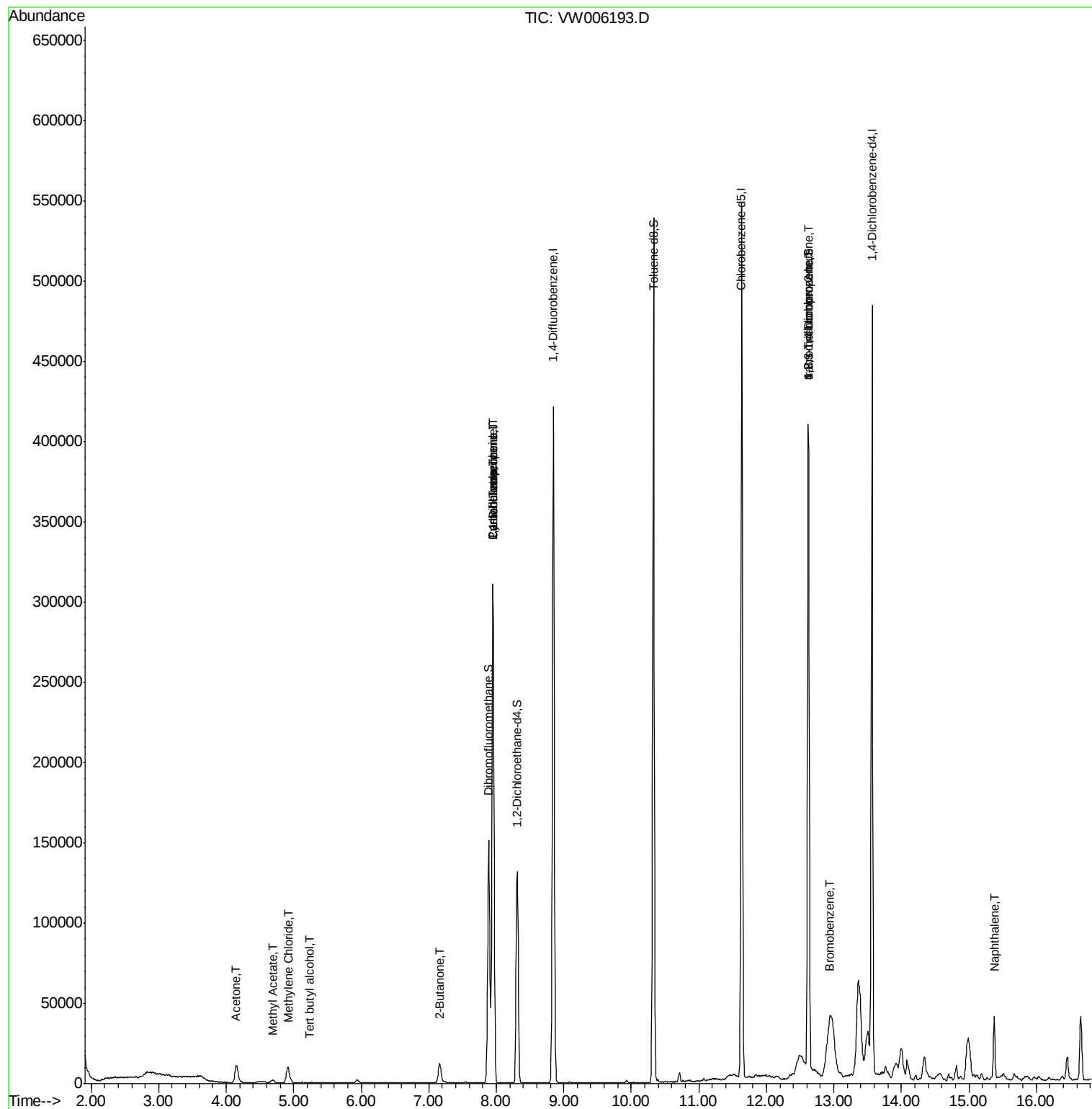
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.23  | 59   | 206      | 1.473   | ug/l # | 71     |
| 16) Acetone                    | 4.15  | 43   | 23737    | 48.939  | ug/l   | 100    |
| 18) Methyl Acetate             | 4.68  | 43   | 3427     | 3.275   | ug/l   | 92     |
| 20) Methylene Chloride         | 4.92  | 84   | 8669     | 2.390   | ug/l   | 97     |
| 25) 2-Butanone                 | 7.16  | 43   | 846      | 1.506   | ug/l # | 46     |
| 31) Cyclohexane                | 7.95  | 56   | 4423     | 1.162   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16402    | 4.796   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 22528    | 6.009   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 62394    | 61.772  | ug/l # | 100    |
| 77) Bromobenzene               | 12.95 | 156  | 32728    | 14.302  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 62394    | 147.659 | ug/l # | 10     |
| 95) Naphthalene                | 15.38 | 128  | 35311    | 6.791   | ug/l   | 99     |

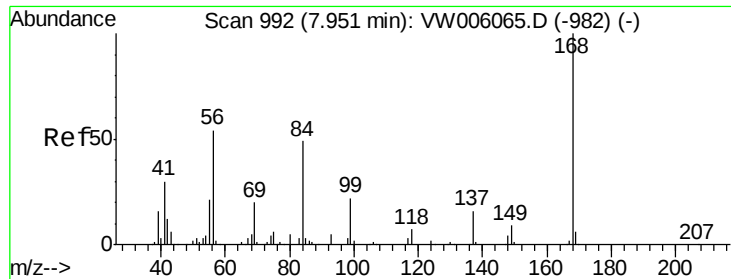
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
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PL-03-101718-A

Quant Time: Oct 19 06:05:26 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 18 17:01:24 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006193.D

Acq: 18 Oct 2018 22:45

Instrument :

MSVOA\_W

ClientSampleId :

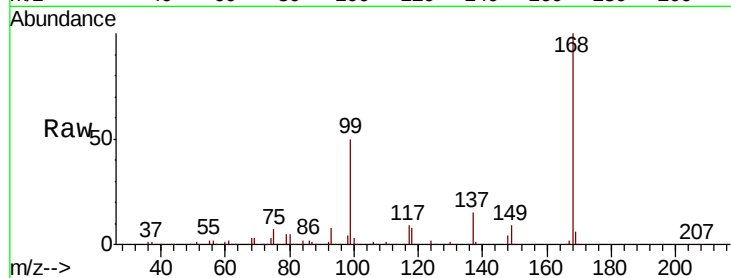
PL-03-101718-A

Tot Ion:168 Resp: 250823

Ion Ratio Lower Upper

168 100

99 50.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

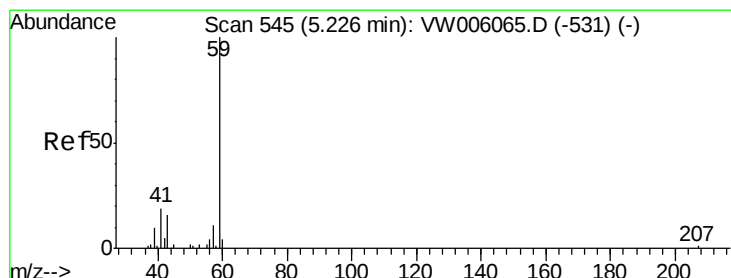
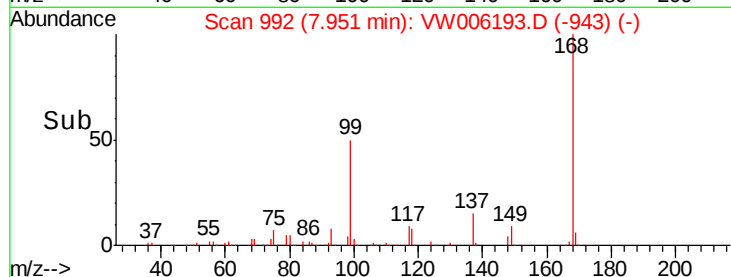
7.95

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.473 ug/l

RT: 5.23 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW006193.D

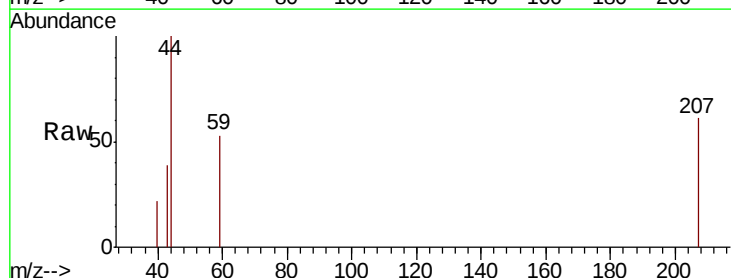
Acq: 18 Oct 2018 22:45

Tgt Ion: 59 Resp: 206

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.23

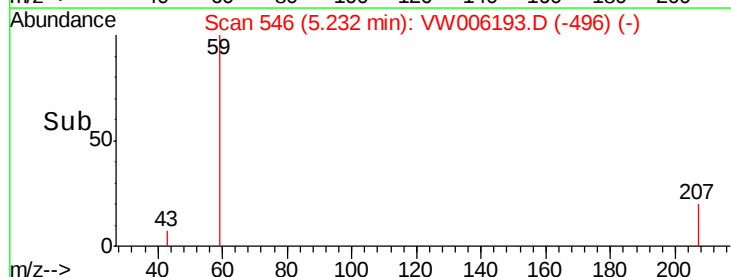
150

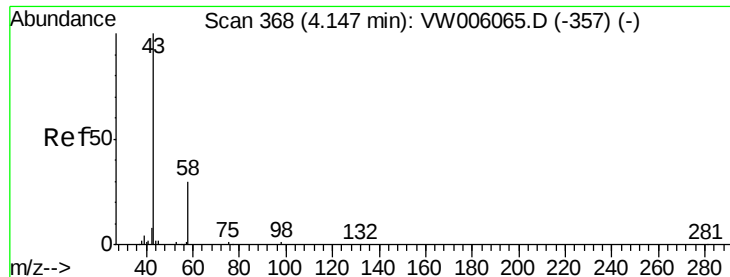
100

50

0

Time-->





#16

Acetone

Concen: 48.939 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW006193.D

Acq: 18 Oct 2018 22:45

Instrument :

MSVOA\_W

ClientSampleId :

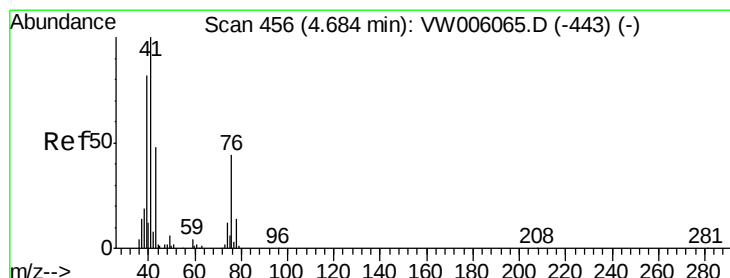
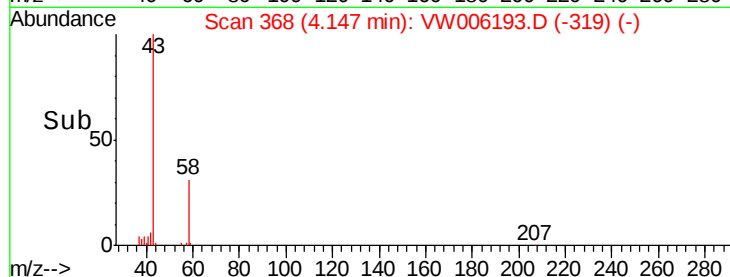
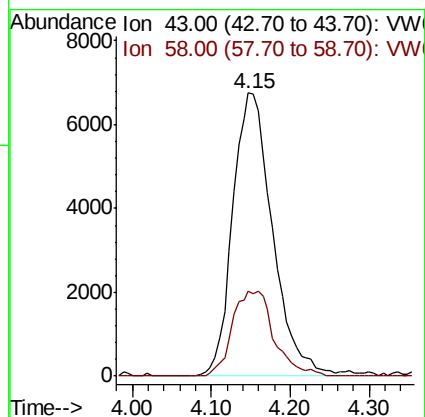
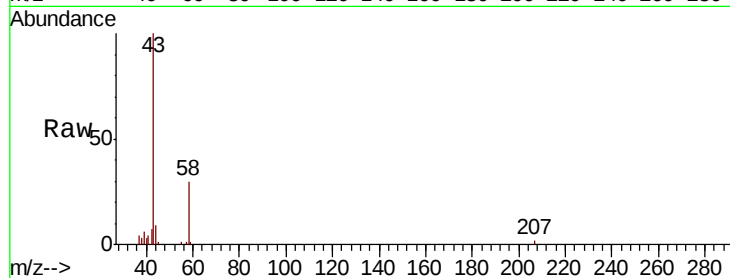
PL-03-101718-A

Tot Ion: 43 Resp: 23737

Ion Ratio Lower Upper

43 100

58 30.2 24.0 36.0



#18

Methyl Acetate

Concen: 3.275 ug/l

RT: 4.68 min Scan# 456

Delta R.T. -0.00 min

Lab File: VW006193.D

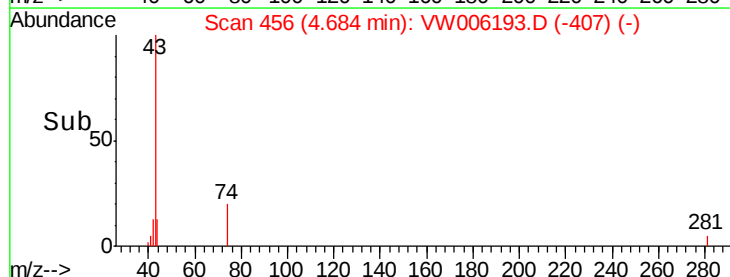
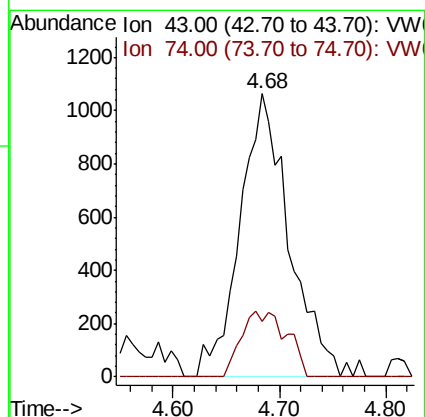
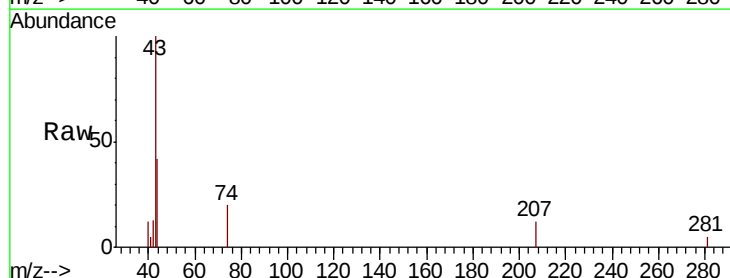
Acq: 18 Oct 2018 22:45

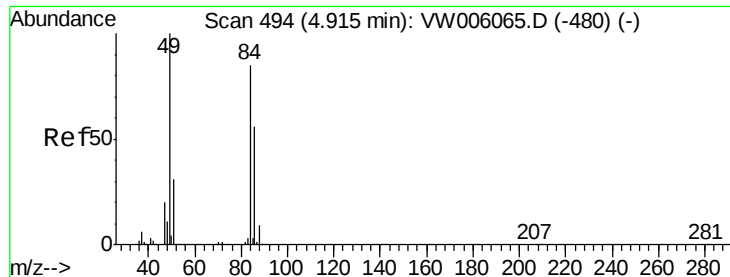
Tgt Ion: 43 Resp: 3427

Ion Ratio Lower Upper

43 100

74 21.6 20.5 30.7

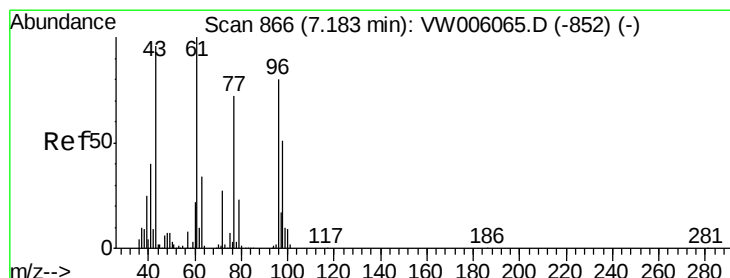
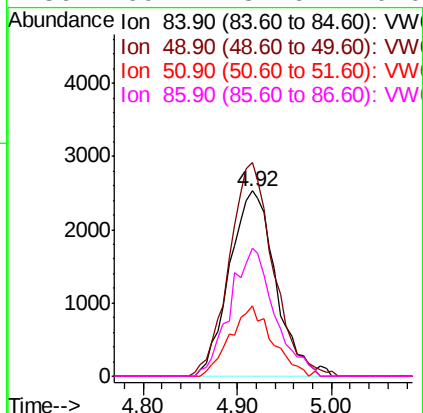
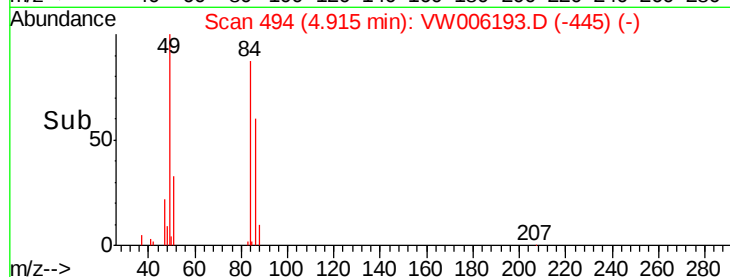
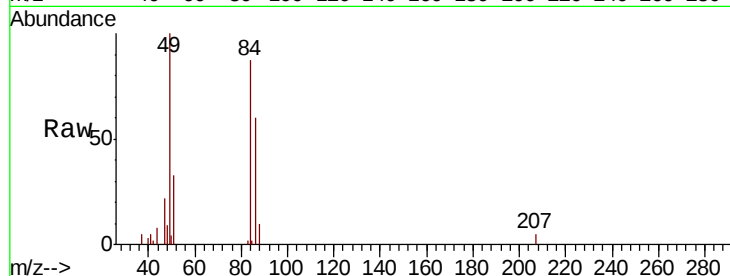




#20  
Methvlene Chloride  
Concen: 2.390 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW006193.D  
Acq: 18 Oct 2018 22:45

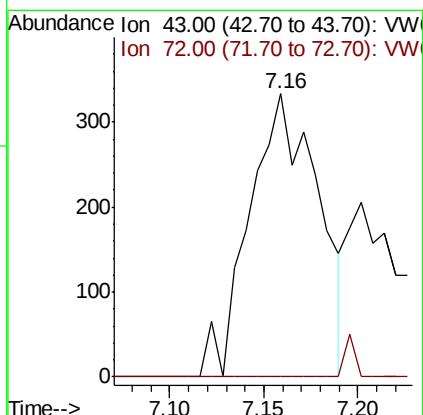
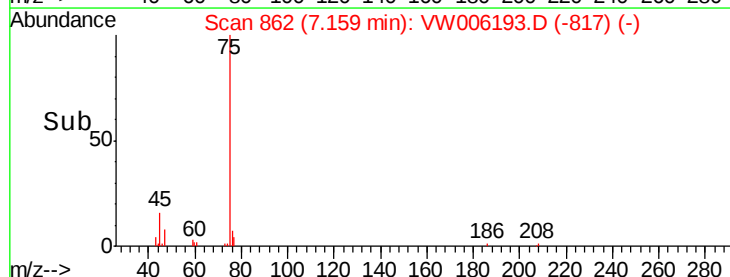
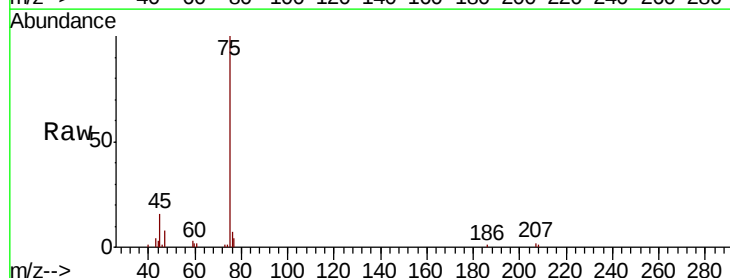
Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-03-101718-A

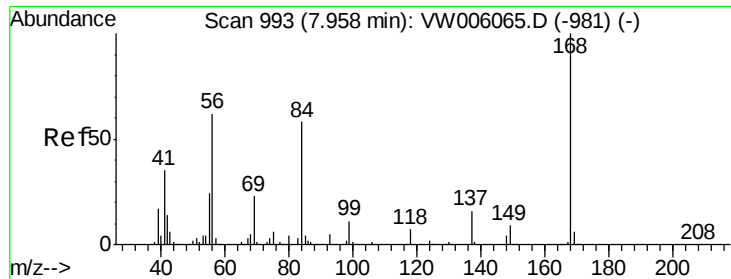
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 8669  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.1 | 93.6  | 140.4 |
| 51       | 38.2  | 29.0  | 43.4  |
| 86       | 69.2  | 52.6  | 79.0  |



#25  
2-Butanone  
Concen: 1.506 ug/l  
RT: 7.16 min Scan# 862  
Delta R.T. -0.02 min  
Lab File: VW006193.D  
Acq: 18 Oct 2018 22:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 846   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 22.8  | 34.2# |





#31

Cyclohexane

Concen: 1.162 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006193.D

Acq: 18 Oct 2018 22:45

Instrument :

MSVOA\_W

ClientSampleId :

PL-03-101718-A

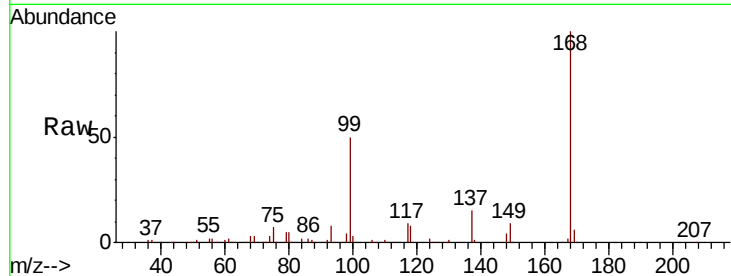
Tot Ion: 56 Resp: 4423

Ion Ratio Lower Upper

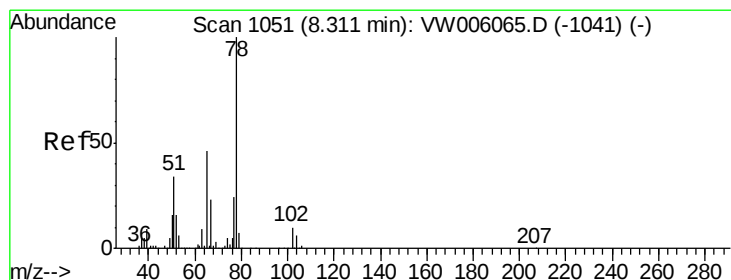
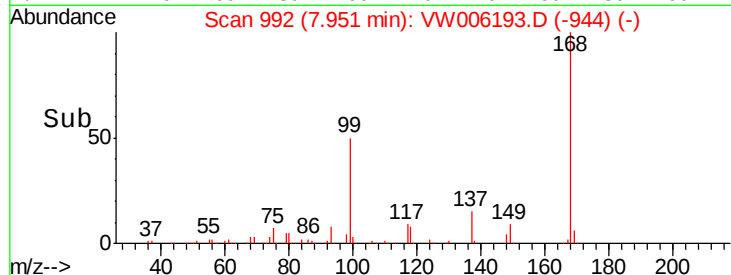
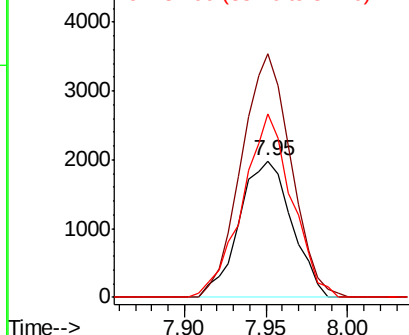
56 100

69 178.3 29.4 44.0#

84 134.2 74.0 111.0#



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 51.267 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW006193.D

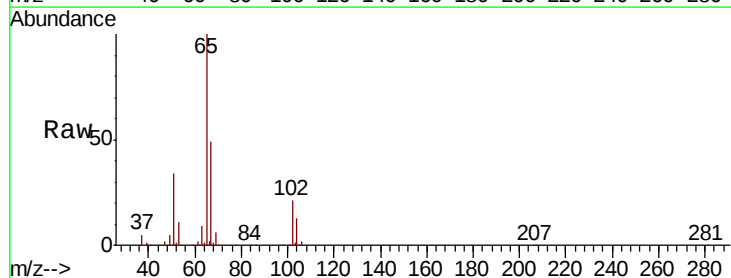
Acq: 18 Oct 2018 22:45

Tgt Ion: 65 Resp: 106607

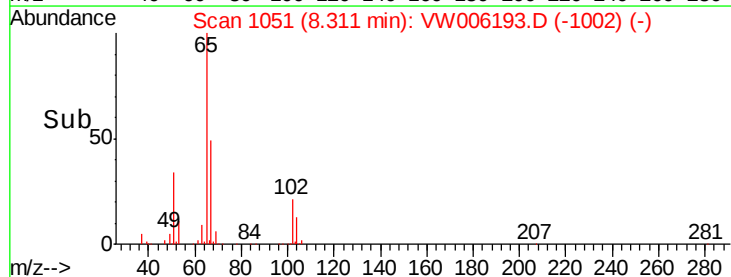
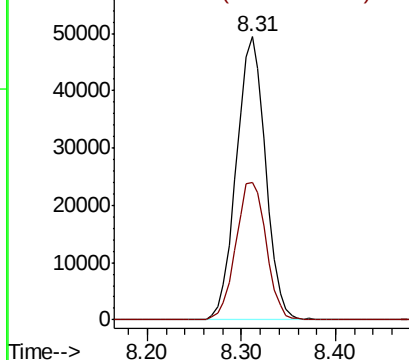
Ion Ratio Lower Upper

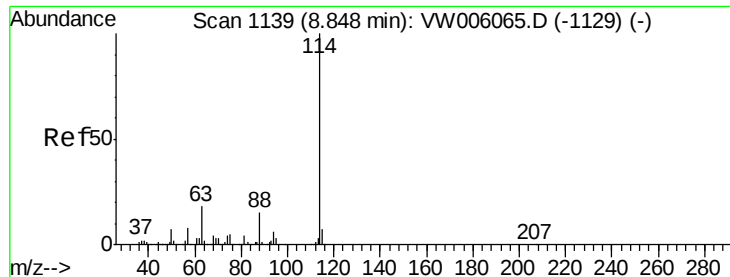
65 100

67 50.7 0.0 101.0



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

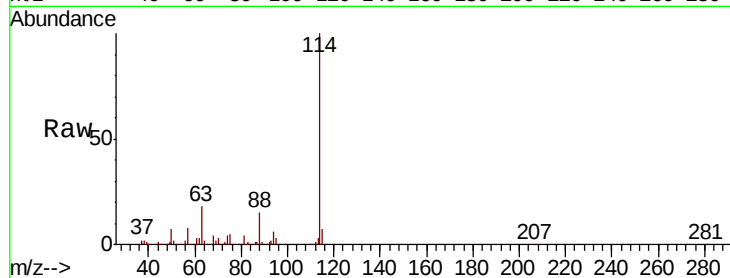




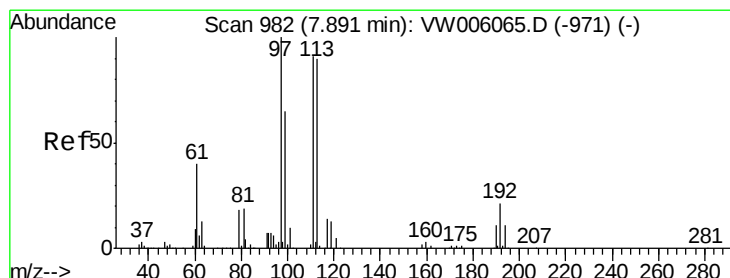
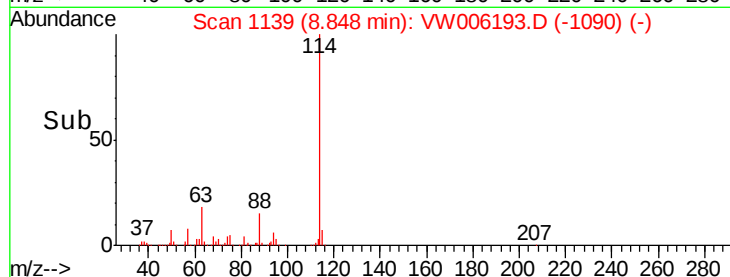
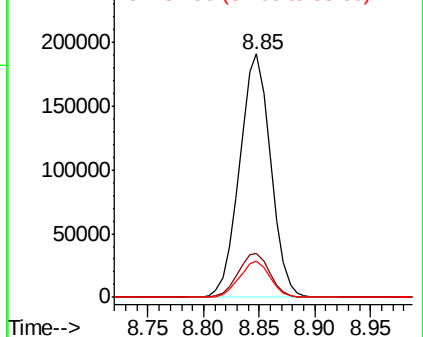
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW006193.D  
 Acq: 18 Oct 2018 22:45

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PL-03-101718-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.9  | 0.0   | 36.8  |
| 88      | 14.8  | 0.0   | 29.0  |

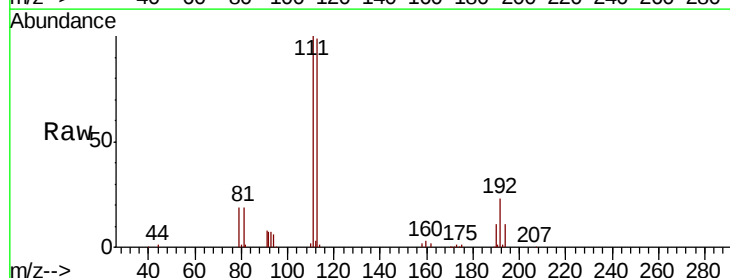


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

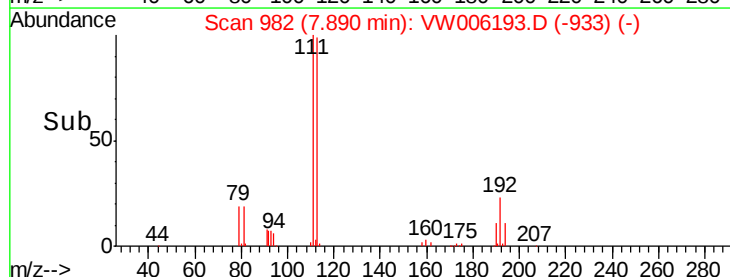
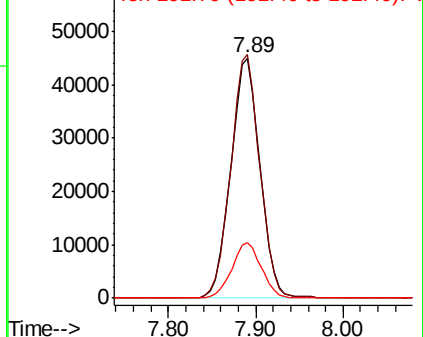


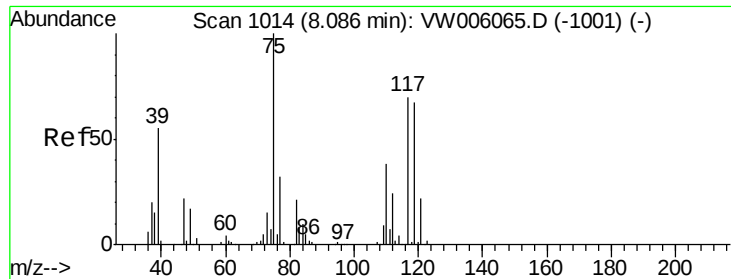
#35  
 Dibromofluoromethane  
 Concen: 47.665 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VW006193.D  
 Acq: 18 Oct 2018 22:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.8 | 81.4  | 122.0 |
| 192     | 23.2  | 18.7  | 28.1  |



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: 4.796 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW006193.D

Acq: 18 Oct 2018 22:45

Instrument :

MSVOA\_W

ClientSampleId :

PL-03-101718-A

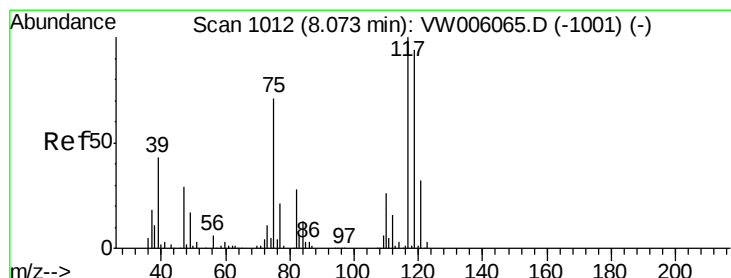
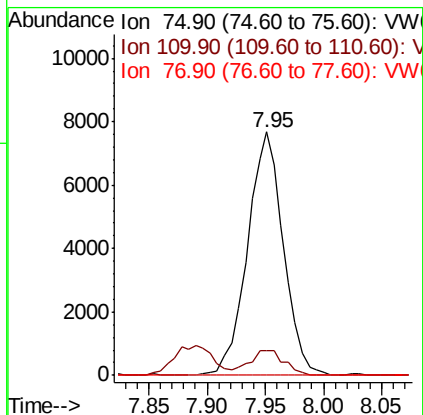
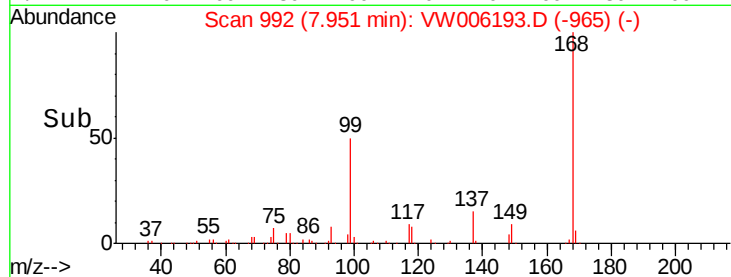
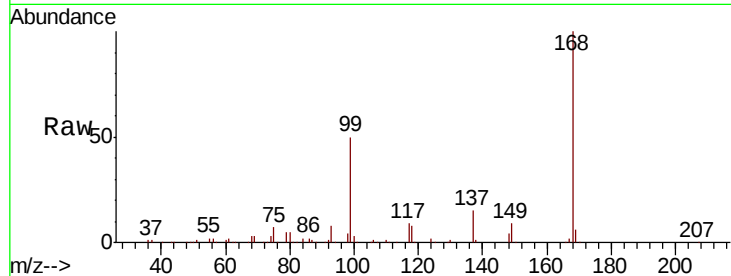
Tot Ion: 75 Resp: 16402

Ion Ratio Lower Upper

75 100

110 10.0 19.1 57.1#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.009 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW006193.D

Acq: 18 Oct 2018 22:45

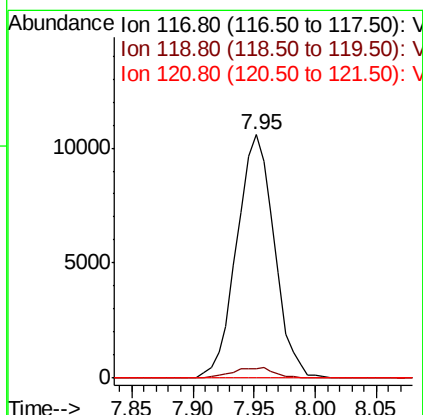
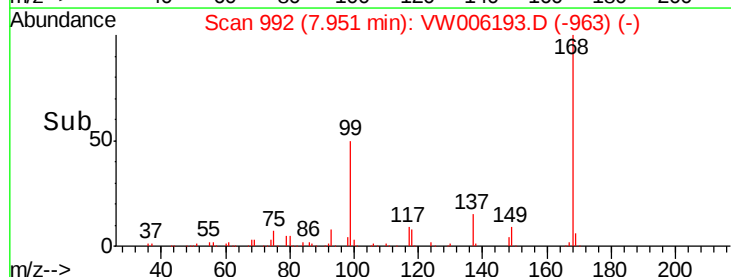
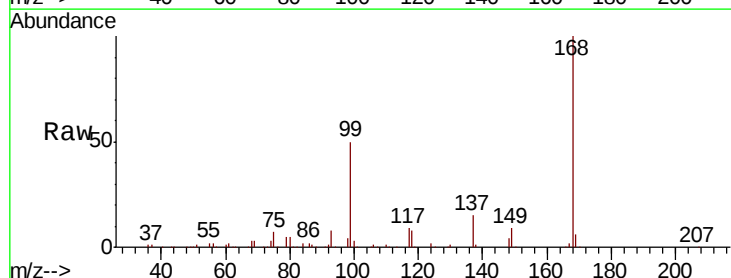
Tgt Ion: 117 Resp: 22528

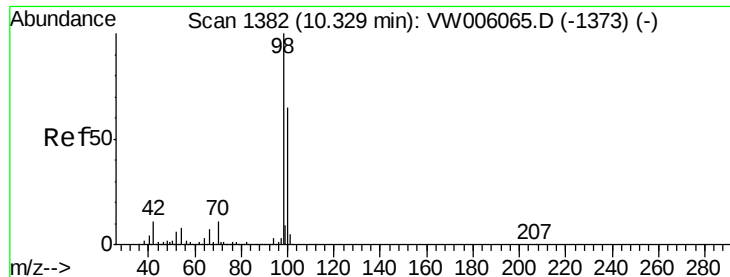
Ion Ratio Lower Upper

117 100

119 4.1 75.2 112.8#

121 0.0 25.3 37.9#





#50

Toluene-d8

Concen: 43.375 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW006193.D

Acq: 18 Oct 2018 22:45

Instrument :

MSVOA\_W

ClientSampleId :

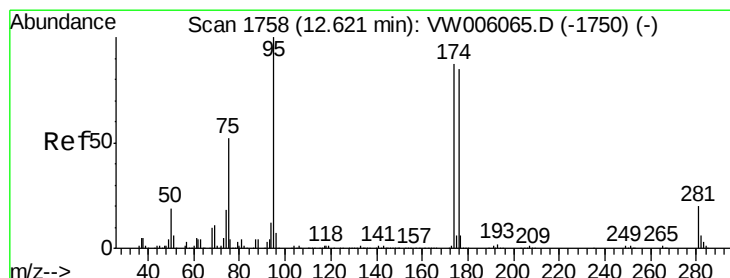
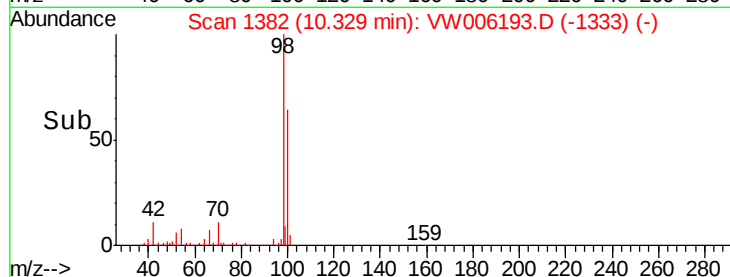
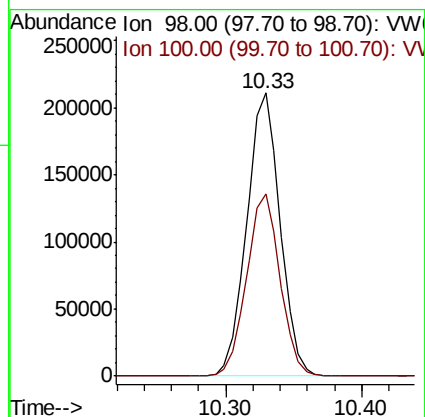
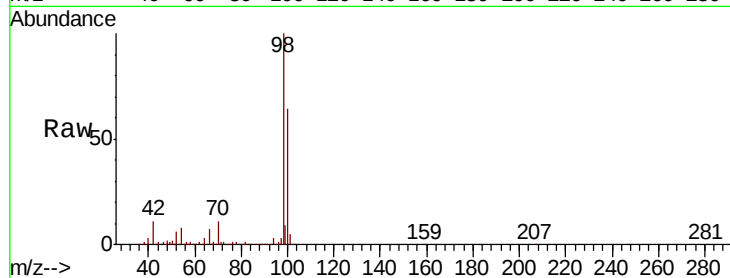
PL-03-101718-A

Tot Ion: 98 Resp: 361822

Ion Ratio Lower Upper

98 100

100 64.4 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 39.124 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006193.D

Acq: 18 Oct 2018 22:45

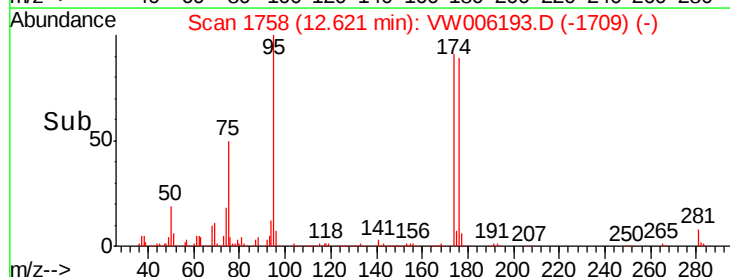
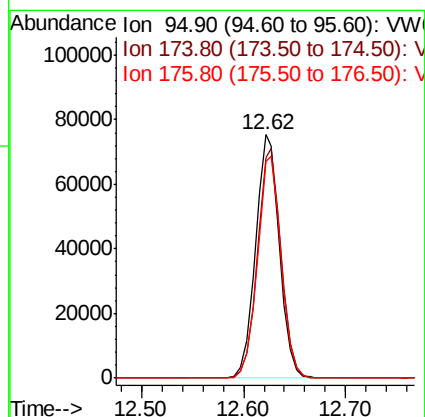
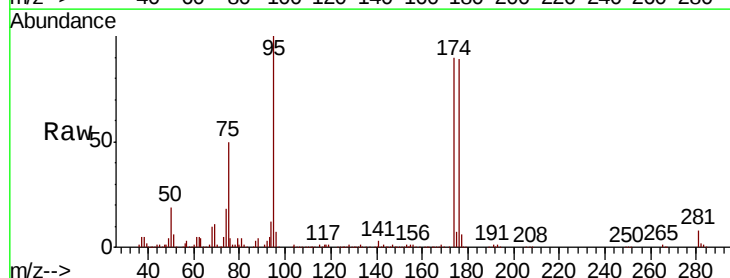
Tgt Ion: 95 Resp: 122576

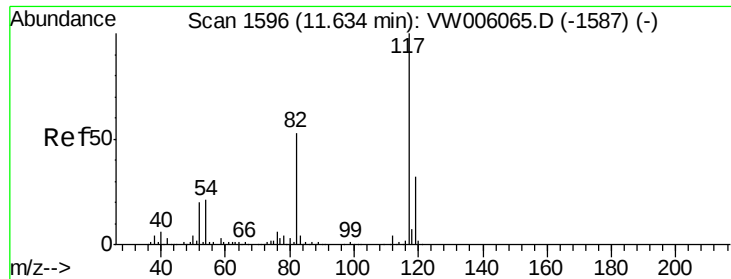
Ion Ratio Lower Upper

95 100

174 93.9 0.0 186.0

176 91.0 0.0 181.6

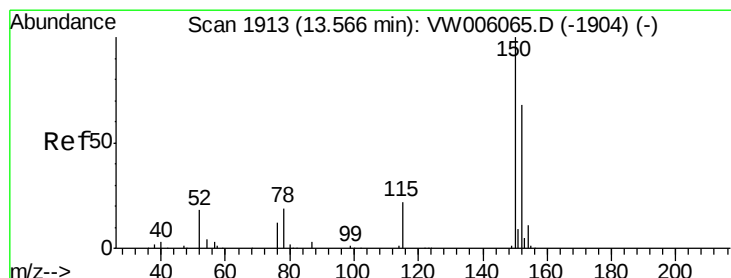
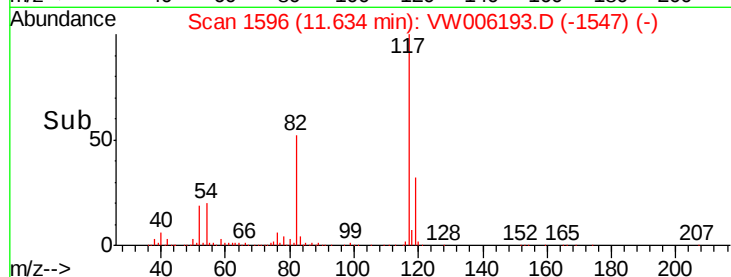
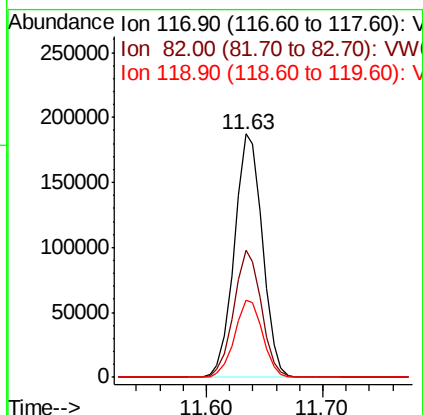
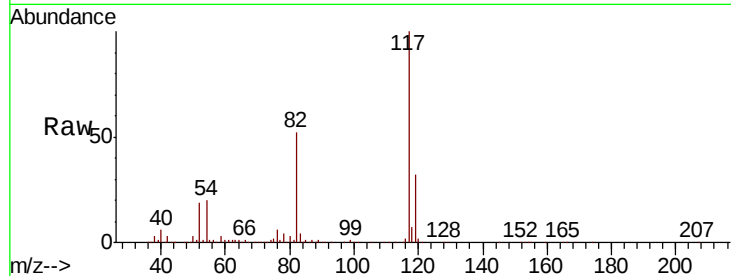




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006193.D  
Acq: 18 Oct 2018 22:45

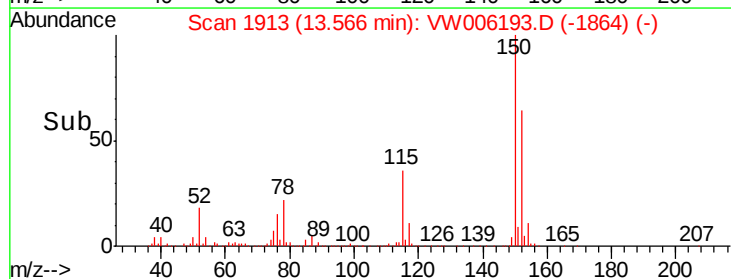
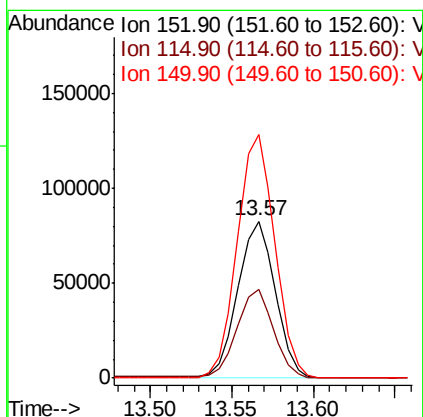
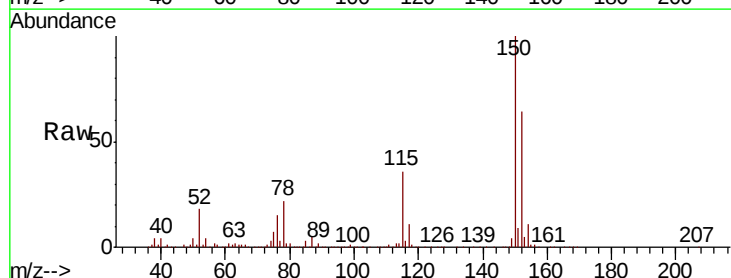
Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-03-101718-A

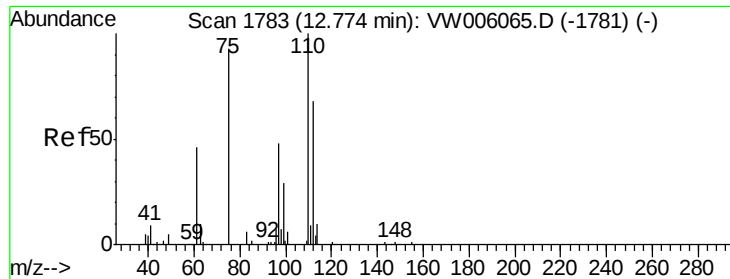
Tot Ion:117 Resp: 314676  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.1 63.1  
119 31.7 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW006193.D  
Acq: 18 Oct 2018 22:45

Tgt Ion:152 Resp: 132243  
Ion Ratio Lower Upper  
152 100  
115 55.3 27.8 83.3  
150 155.5 0.0 349.2

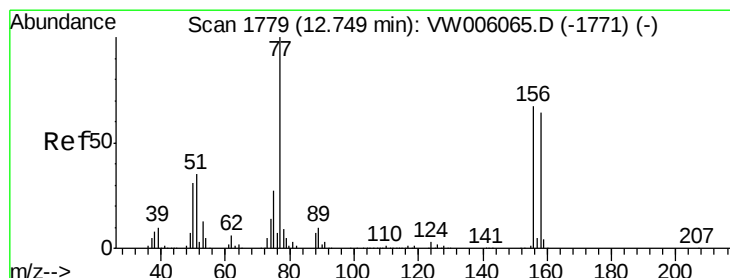
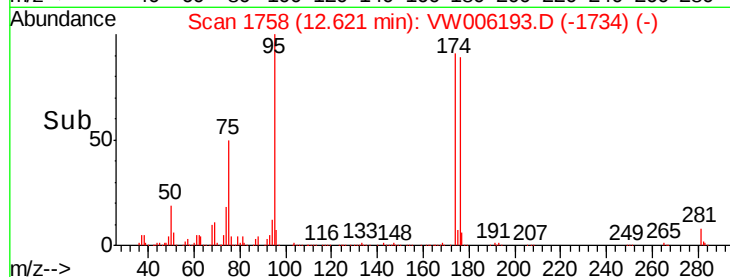
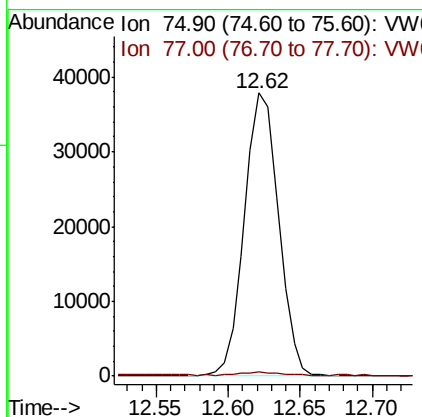
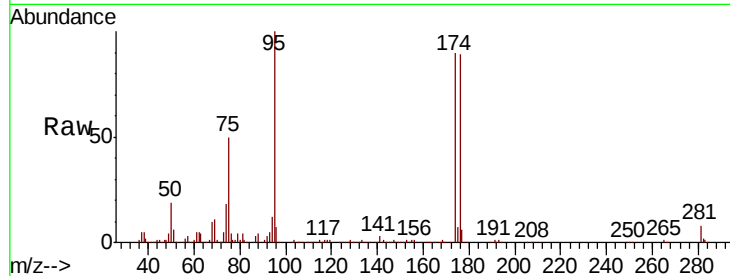




#76  
 1,2,3-Trichloropropane  
 Concen: 61.772 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW006193.D  
 Acq: 18 Oct 2018 22:45

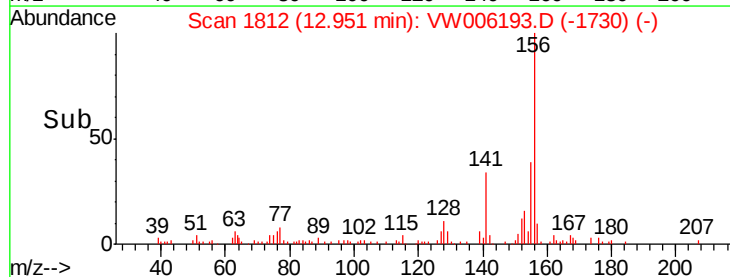
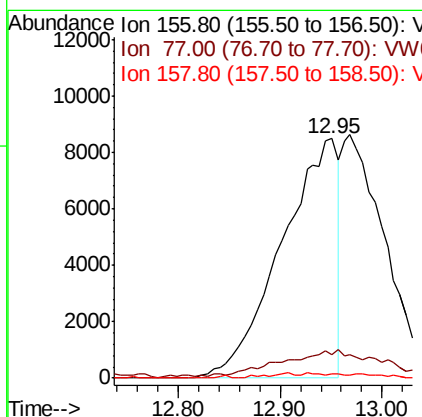
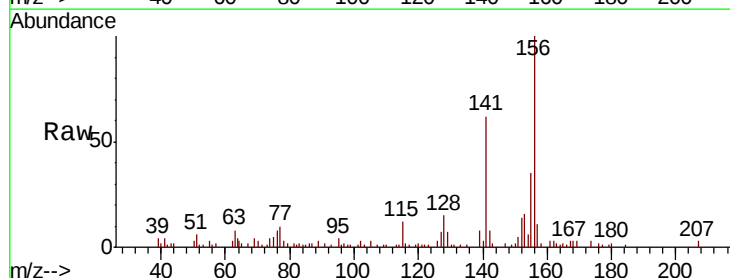
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PL-03-101718-A

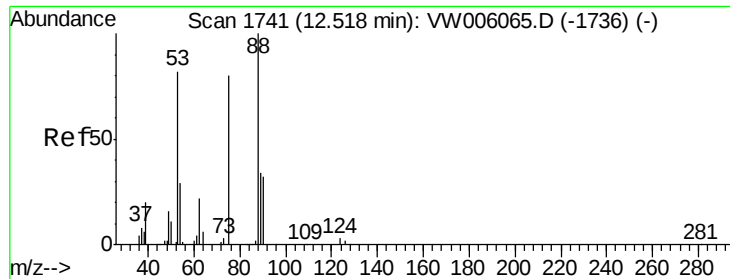
Tot Ion: 75 Resp: 62394  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#



#77  
 Bromobenzene  
 Concen: 14.302 ug/l  
 RT: 12.95 min Scan# 1812  
 Delta R.T. 0.20 min  
 Lab File: VW006193.D  
 Acq: 18 Oct 2018 22:45

Tgt Ion: 156 Resp: 32728  
 Ion Ratio Lower Upper  
 156 100  
 77 17.4 79.1 237.4#  
 158 0.0 48.5 145.6#

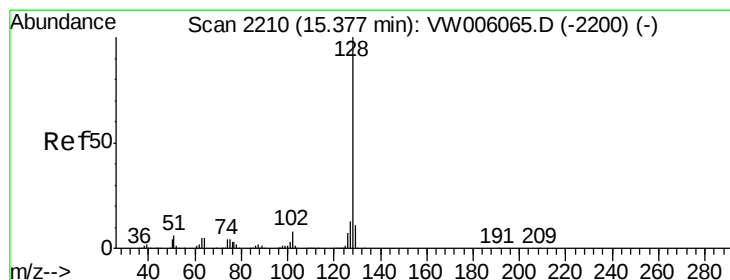
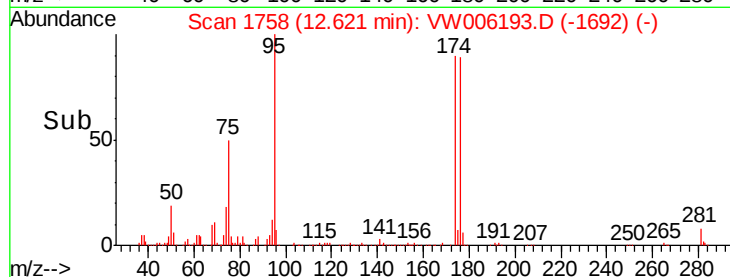
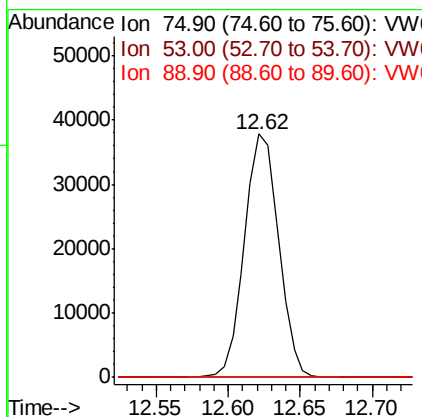
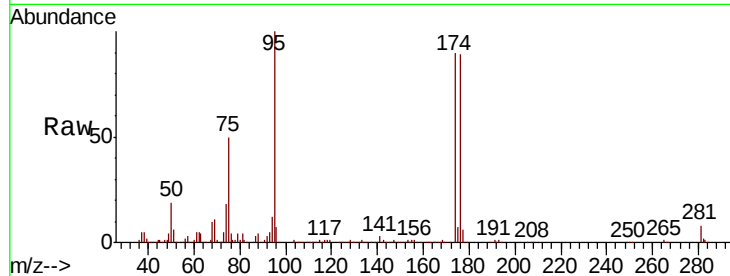




#81  
trans-1,4-Dichloro-2-butene  
Concen: 147.659 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.10 min  
Lab File: VW006193.D  
Acq: 18 Oct 2018 22:45

Instrument :  
MSVOA\_W  
ClientSampleId :  
PL-03-101718-A

Tot Ion: 75 Resp: 62394  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.8 119.6#  
89 0.2 37.5 56.3#



#95  
Naphthalene  
Concen: 6.791 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW006193.D  
Acq: 18 Oct 2018 22:45

Tgt Ion:128 Resp: 35311  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.3 15.5  
129 10.9 8.7 13.1

