

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092518\  
 Data File : VW005651.D  
 Acq On : 26 Sep 2018 10:40  
 Operator : VA/AP  
 Sample : J4775-11RE  
 Misc : 6.27G/5ML/MSVOA W/SOIL  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OR-01-092418-BRE

Quant Time: Sep 26 11:43:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 192251   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 300437   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 212960   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 105811   | 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   | 147510   | 65.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 130.26% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 115757   | 61.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 122.54% |          |
| 50) Toluene-d8              | 10.33 | 98   | 194364   | 25.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 50.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 118551   | 41.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.30%  |          |

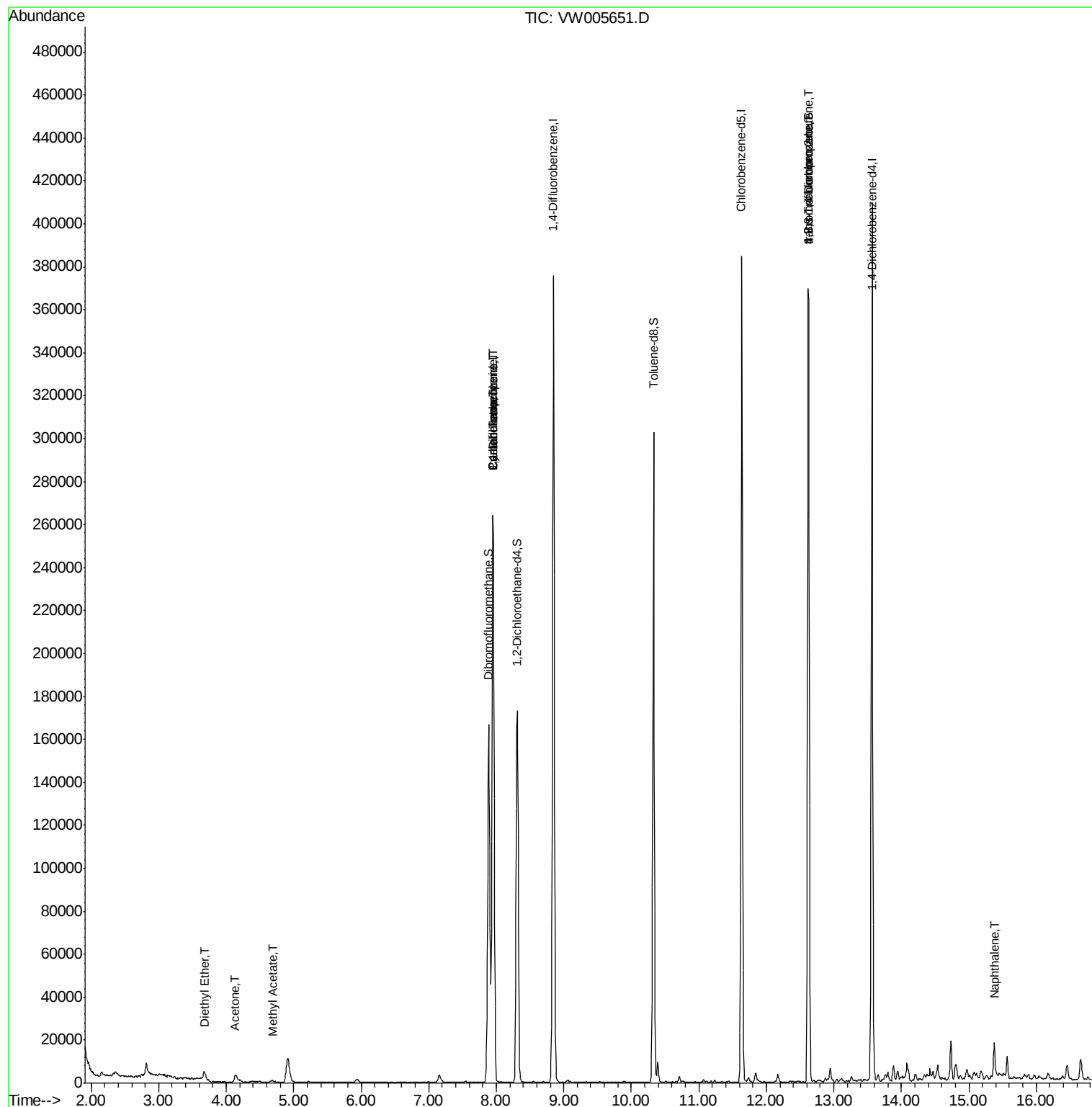
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 2305     | 2.442     | ug/l   | 97     |
| 11) Tert butyl alcohol         | 5.19  | 59   | 171      | Below Cal | #      | 72     |
| 13) Acrolein                   | 3.61  | 56   | 21       | Below Cal | #      | 13     |
| 16) Acetone                    | 4.14  | 43   | 6323     | 8.648     | ug/l # | 83     |
| 18) Methyl Acetate             | 4.68  | 43   | 1987     | 1.851     | ug/l # | 78     |
| 31) Cyclohexane                | 7.95  | 56   | 4474     | 1.274     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15470    | 5.115     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.96  | 117  | 19493    | 6.015     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 62720    | 69.537    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 62720    | 156.618   | ug/l # | 7      |
| 95) Naphthalene                | 15.38 | 128  | 13669    | 3.670     | ug/l # | 96     |

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

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QLast Update : Fri Sep 21 09:05:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW005651.D

Acq: 26 Sep 2018 10:40

Instrument :

MSVOA\_W

ClientSampleId :

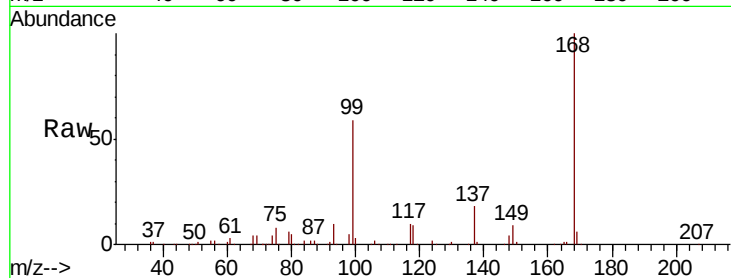
OR-01-092418-BRE

Tot Ion:168 Resp: 192251

Ion Ratio Lower Upper

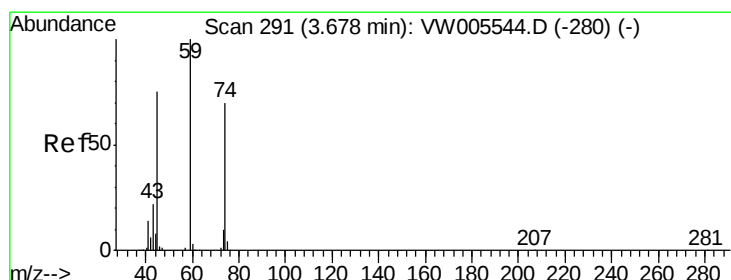
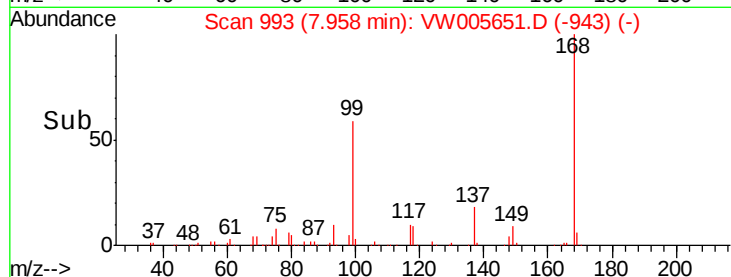
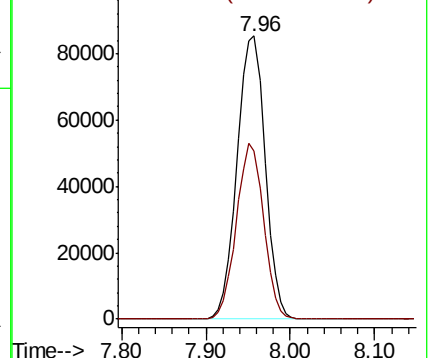
168 100

99 59.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.442 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW005651.D

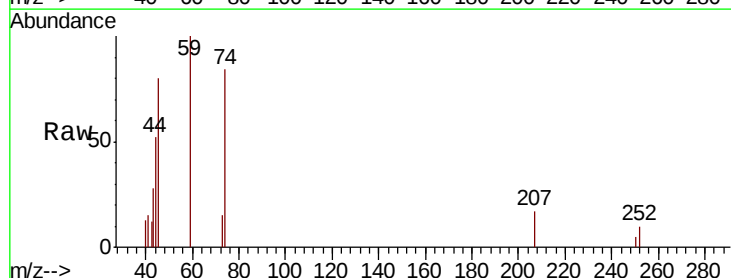
Acq: 26 Sep 2018 10:40

Tgt Ion: 74 Resp: 2305

Ion Ratio Lower Upper

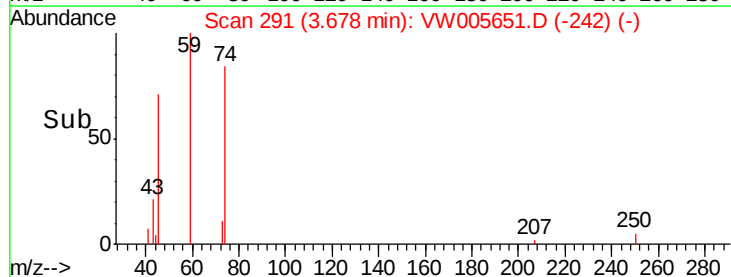
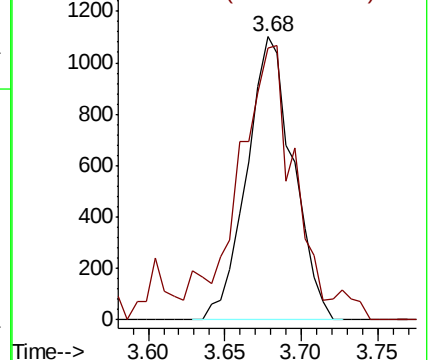
74 100

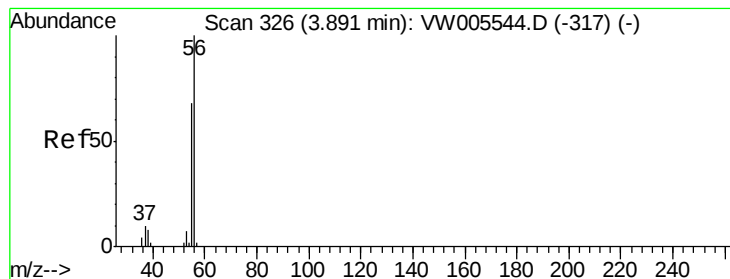
45 100.9 51.7 155.2



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.61 min Scan# 280

Delta R.T. -0.28 min

Lab File: VW005651.D

Acq: 26 Sep 2018 10:40

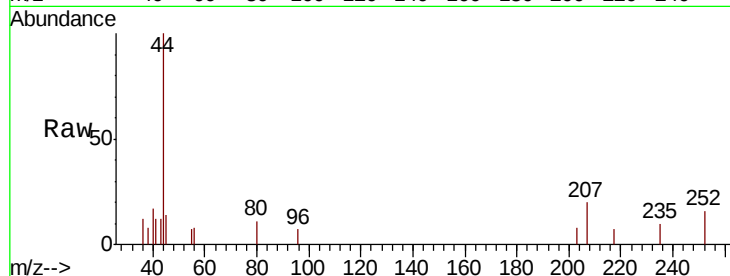
Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-01-092418-BRE

Tot Ion: 56 Resp: 21

Ion Ratio Lower Upper

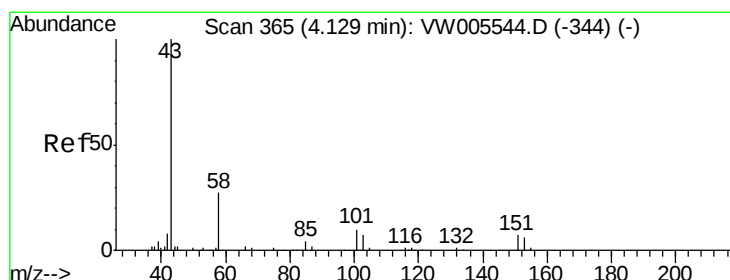
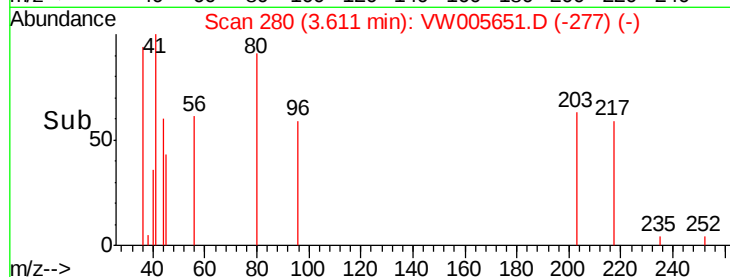
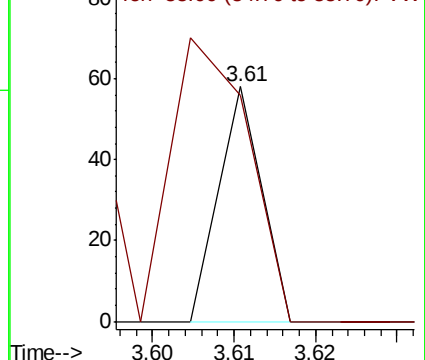
56 100

55 0.0 57.8 86.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 8.648 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW005651.D

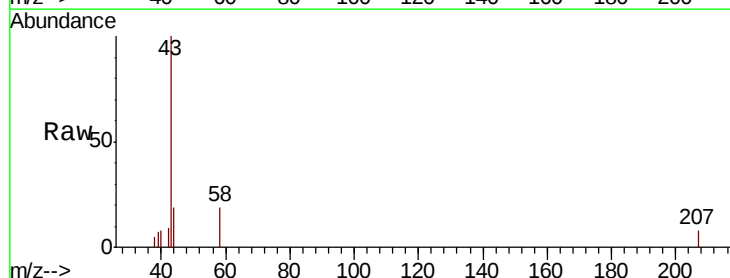
Acq: 26 Sep 2018 10:40

Tgt Ion: 43 Resp: 6323

Ion Ratio Lower Upper

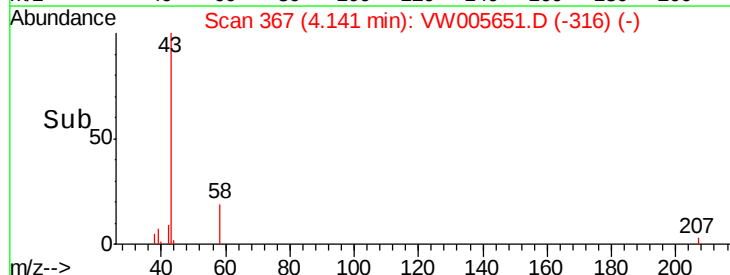
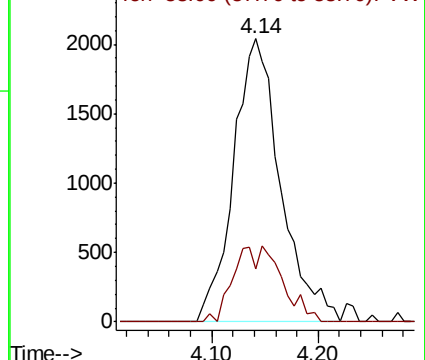
43 100

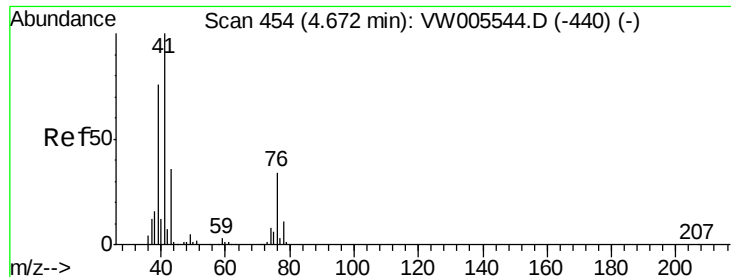
58 18.6 21.8 32.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

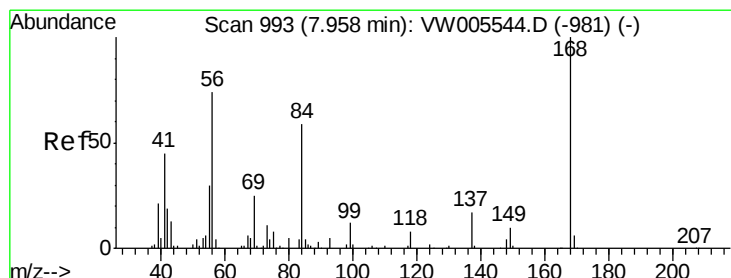
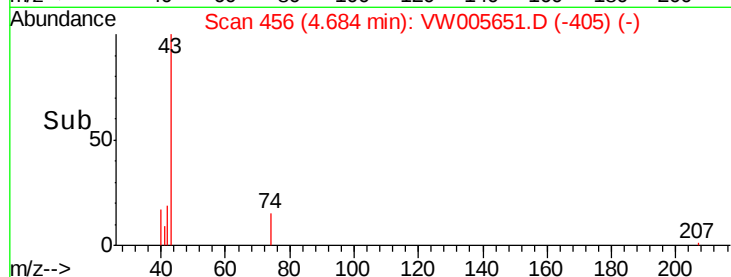
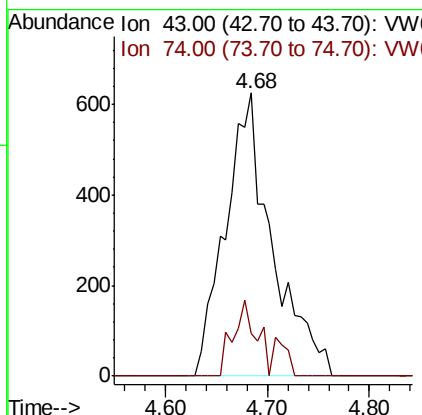
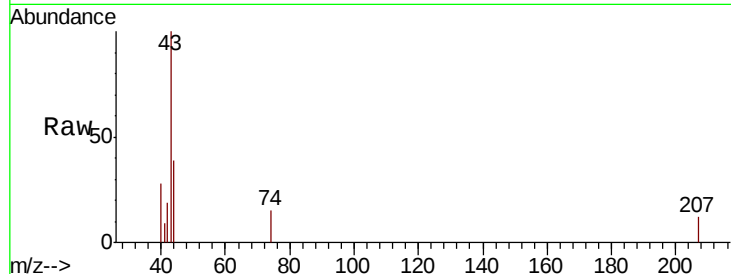




#18  
Methvl Acetate  
Concen: 1.851 ug/l  
RT: 4.68 min Scan# 456  
Delta R.T. 0.01 min  
Lab File: VW005651.D  
Acq: 26 Sep 2018 10:40

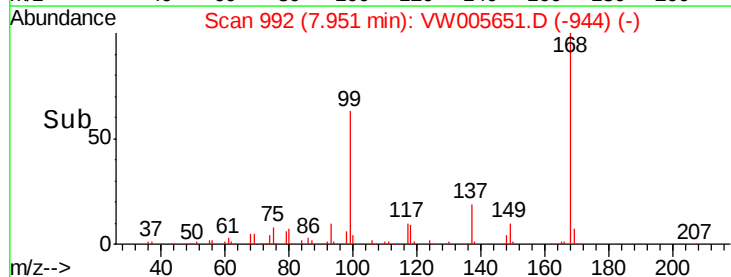
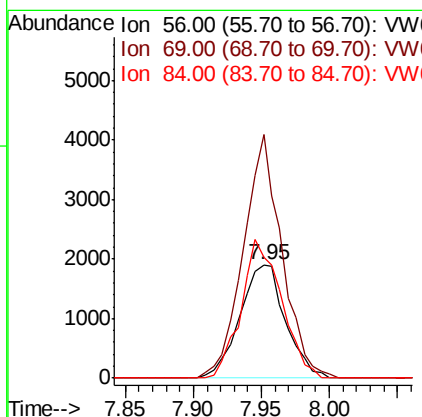
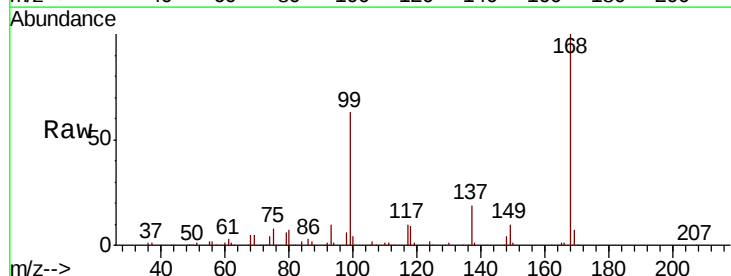
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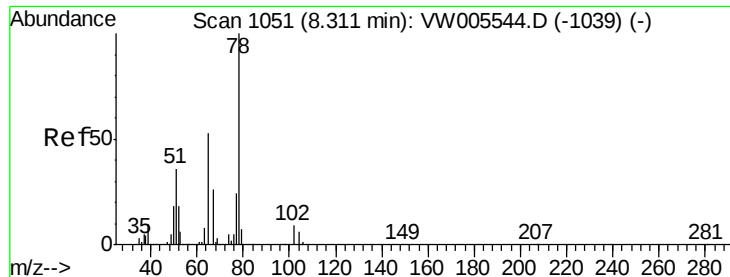
Tot Ion: 43 Resp: 1987  
Ion Ratio Lower Upper  
43 100  
74 13.3 19.2 28.8#



#31  
Cyclohexane  
Concen: 1.274 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW005651.D  
Acq: 26 Sep 2018 10:40

Tgt Ion: 56 Resp: 4474  
Ion Ratio Lower Upper  
56 100  
69 215.4 27.0 40.4#  
84 106.7 64.2 96.4#

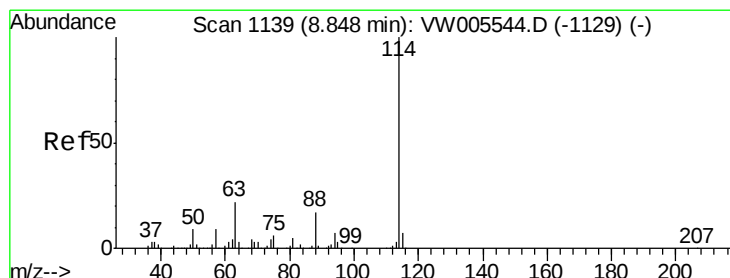
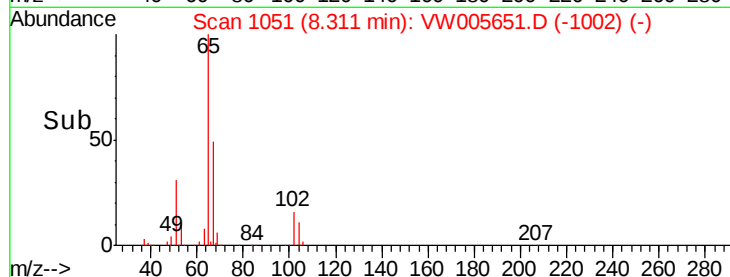
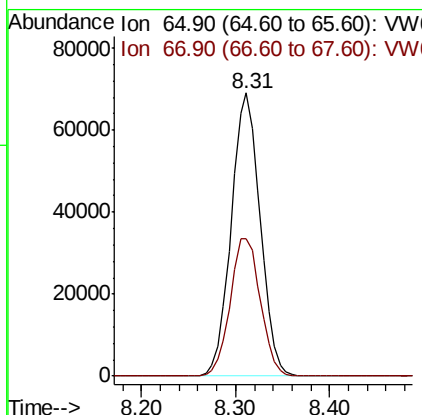
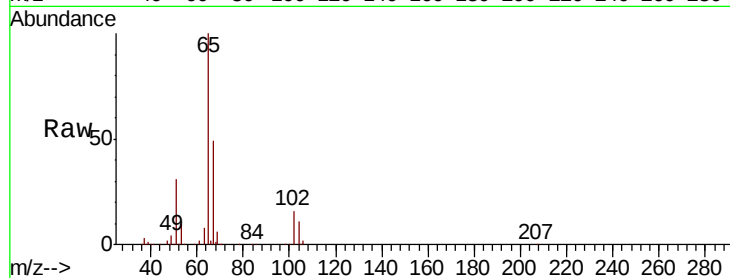




#33  
 1,2-Dichloroethane-d4  
 Concen: 65.130 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW005651.D  
 Acq: 26 Sep 2018 10:40

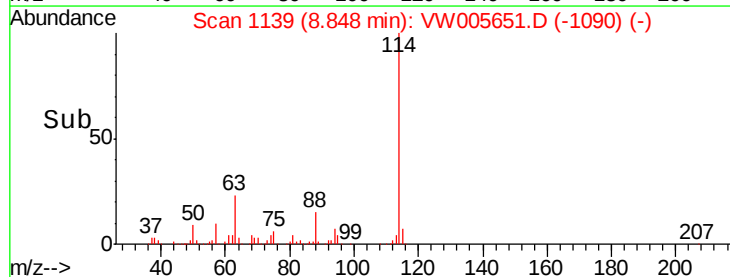
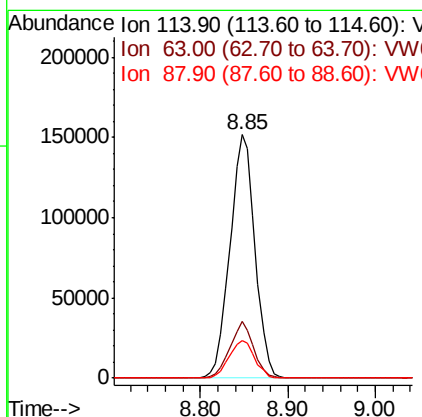
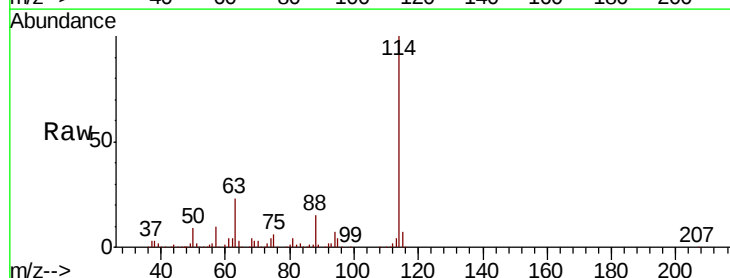
Instrument :  
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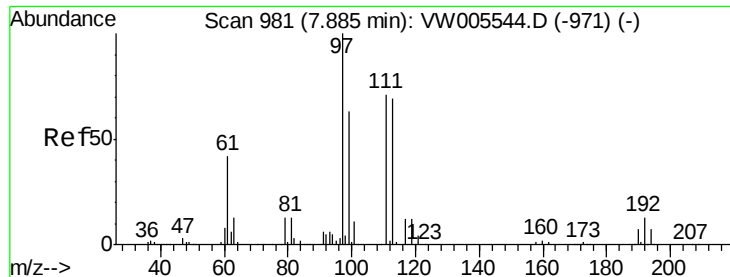
Tot Ion: 65 Resp: 147510  
 Ion Ratio Lower Upper  
 65 100  
 67 50.9 0.0 100.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW005651.D  
 Acq: 26 Sep 2018 10:40

Tgt Ion: 114 Resp: 300437  
 Ion Ratio Lower Upper  
 114 100  
 63 23.4 0.0 43.0  
 88 15.3 0.0 33.0

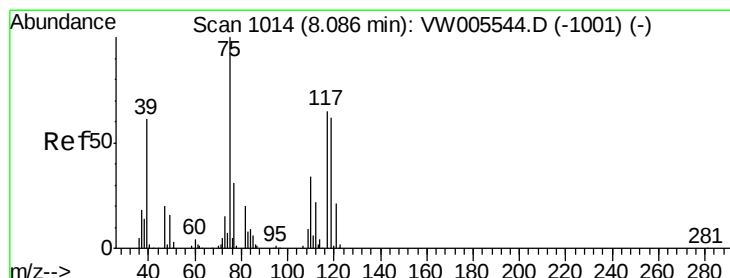
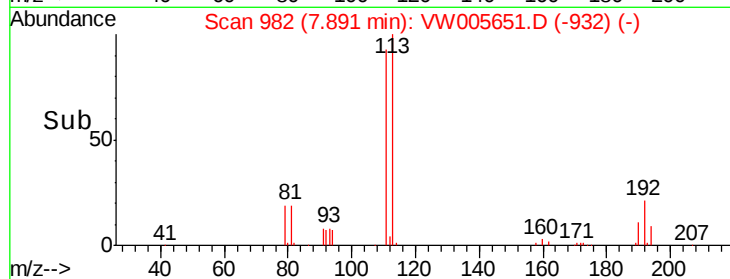
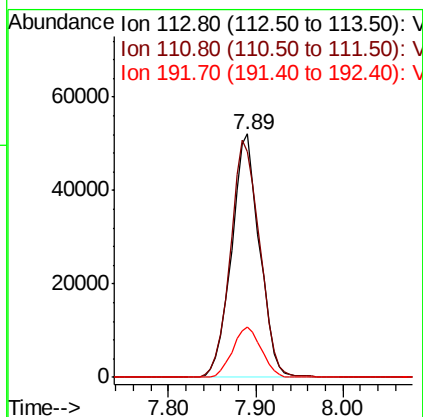
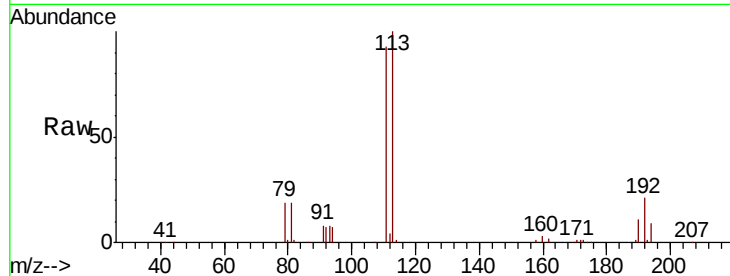




#35  
 Dibromofluoromethane  
 Concen: 61.269 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.01 min  
 Lab File: VW005651.D  
 Acq: 26 Sep 2018 10:40

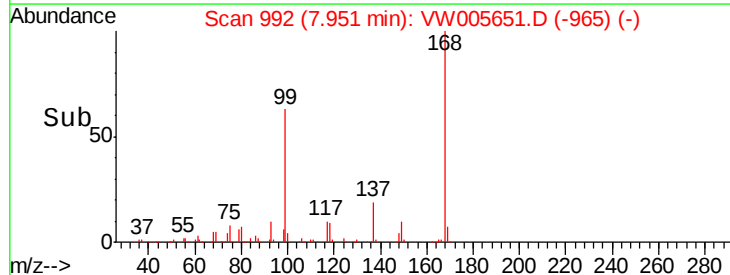
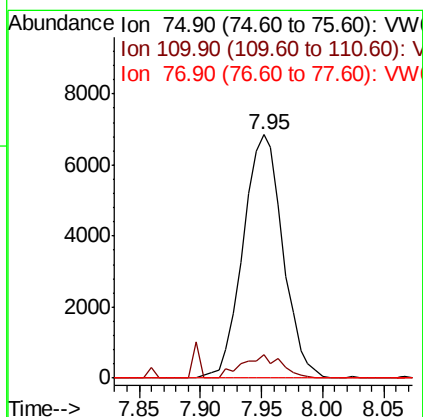
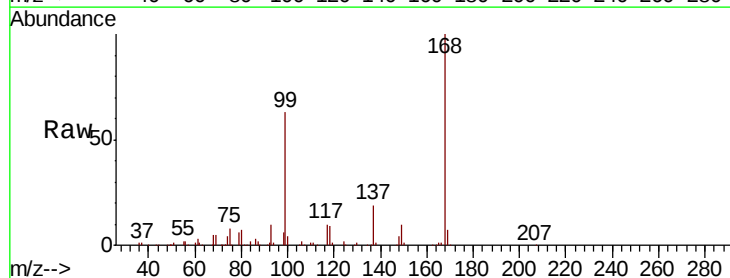
Instrument :  
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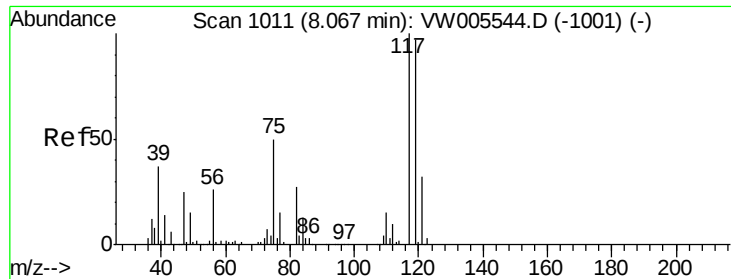
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 82.6  | 123.8 |
| 192     | 21.3  | 17.0  | 25.4  |



#36  
 1,1-Dichloropropene  
 Concen: 5.115 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW005651.D  
 Acq: 26 Sep 2018 10:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.5   | 17.0  | 50.9# |
| 77      | 0.0   | 24.8  | 37.2# |

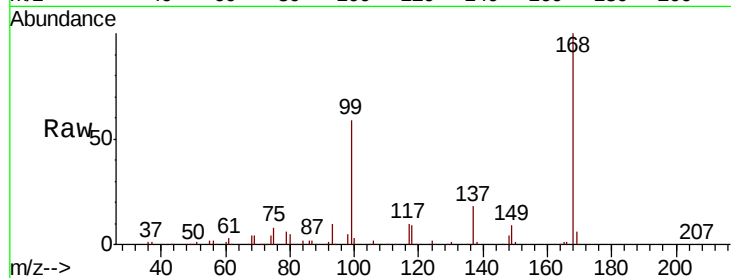




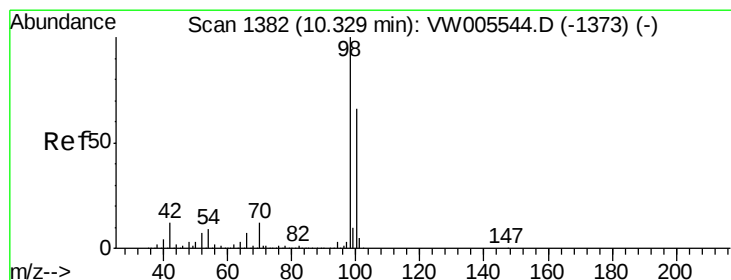
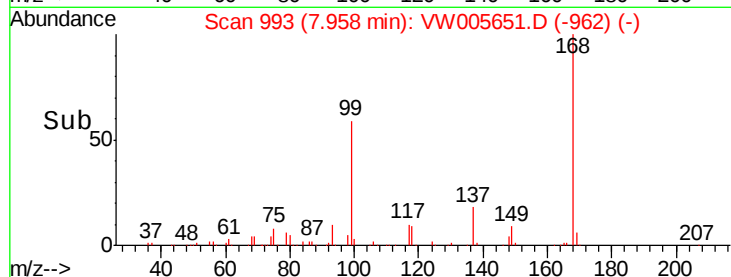
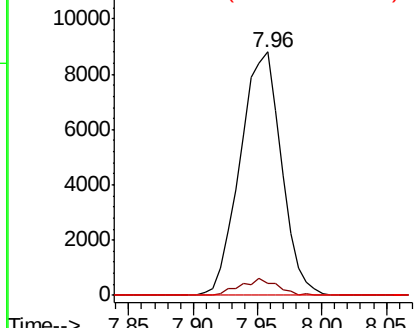
#38  
Carbon Tetrachloride  
Concen: 6.015 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.11 min  
Lab File: VW005651.D  
Acq: 26 Sep 2018 10:40

Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-01-092418-BRE

Tot Ion:117 Resp: 19493  
Ion Ratio Lower Upper  
117 100  
119 4.8 77.6 116.4#  
121 0.0 25.7 38.5#

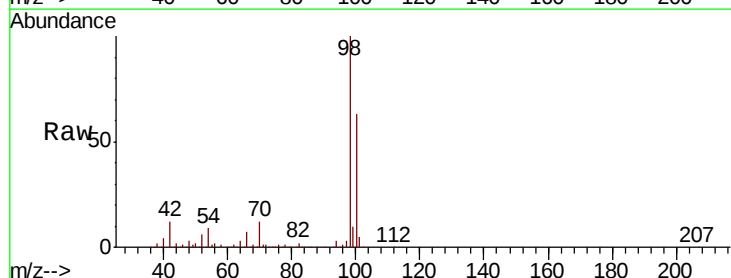


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

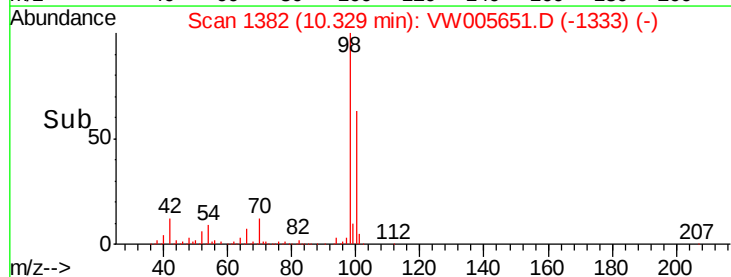
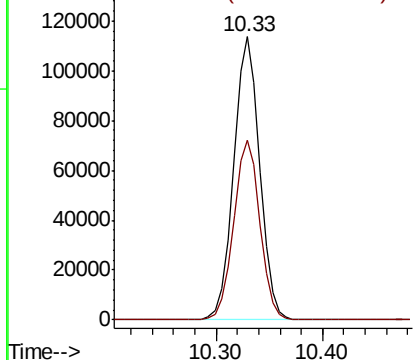


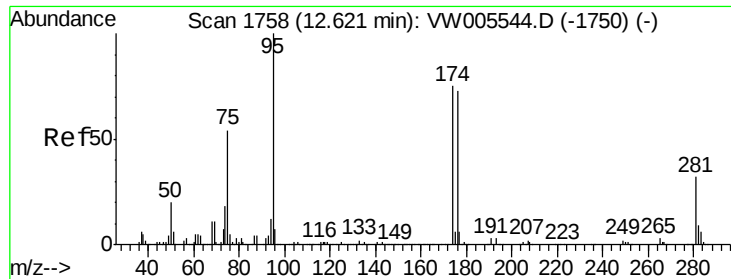
#50  
Toluene-d8  
Concen: 25.265 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. -0.00 min  
Lab File: VW005651.D  
Acq: 26 Sep 2018 10:40

Tgt Ion: 98 Resp: 194364  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.6 77.4



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

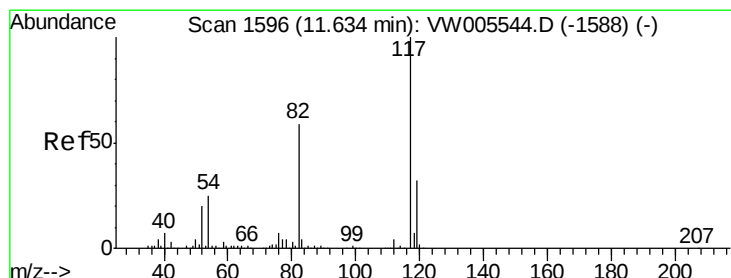
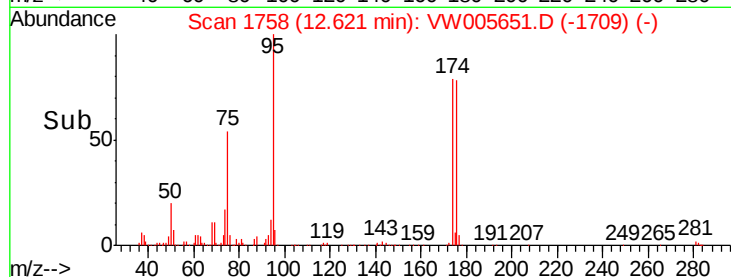
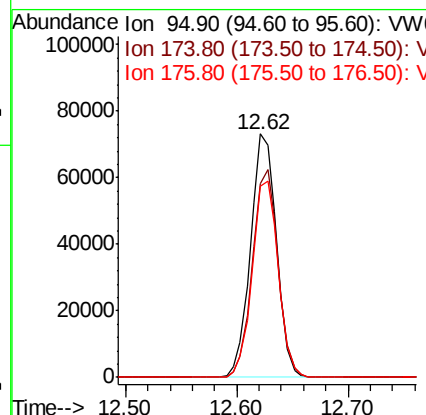
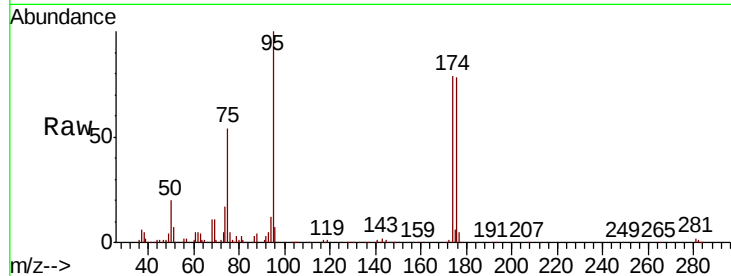




#62  
4-Bromofluorobenzene  
Concen: 41.647 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW005651.D  
Acq: 26 Sep 2018 10:40

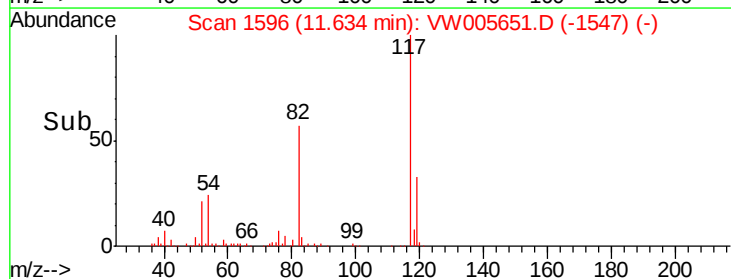
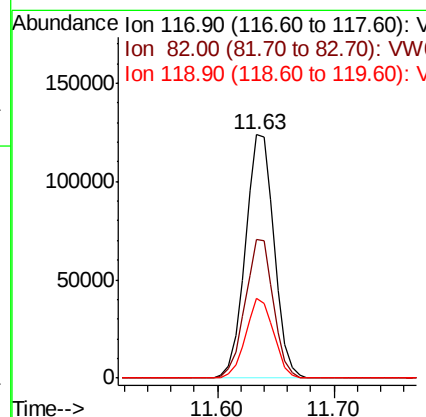
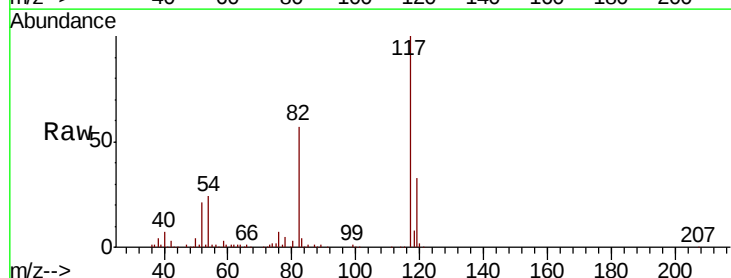
Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-01-092418-BRE

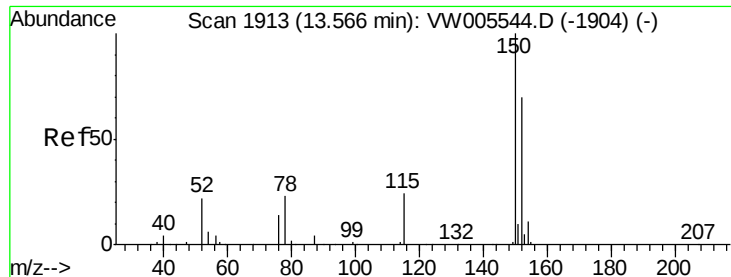
| Tot Ion   | 95    | Resp  | 118551 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 84.4  | 0.0   | 163.8  |
| 176       | 81.1  | 0.0   | 158.0  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW005651.D  
Acq: 26 Sep 2018 10:40

| Tgt Ion   | 117   | Resp  | 212960 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 57.0  | 46.9  | 70.3   |
| 119       | 32.7  | 25.7  | 38.5   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005651.D

Acq: 26 Sep 2018 10:40

Instrument :

MSVOA\_W

ClientSampleId :

OR-01-092418-BRE

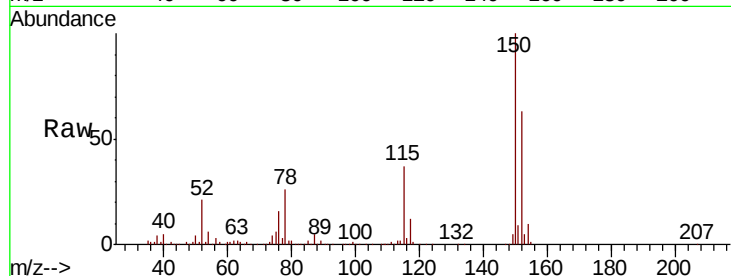
Tot Ion:152 Resp: 105811

Ion Ratio Lower Upper

152 100

115 58.9 30.0 90.0

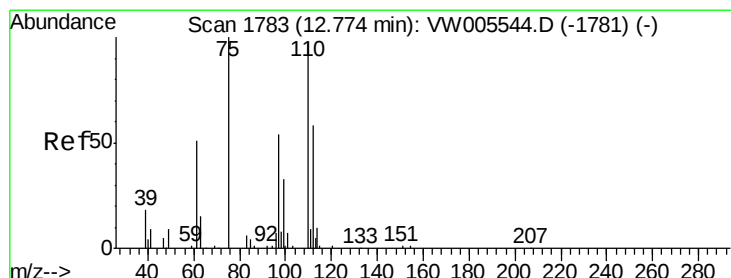
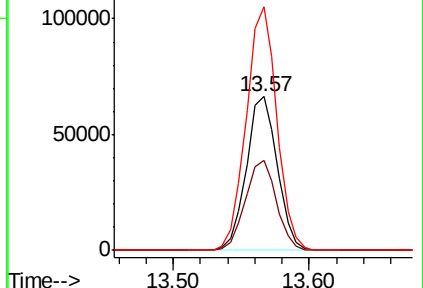
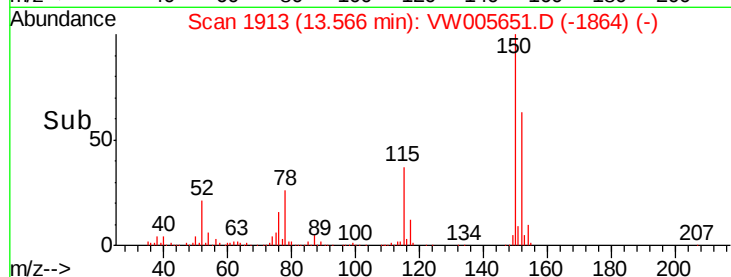
150 157.0 0.0 348.6



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: 69.537 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005651.D

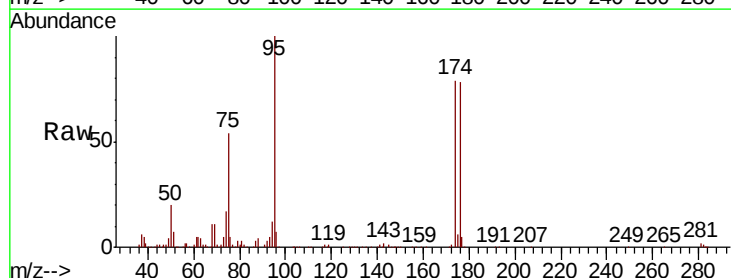
Acq: 26 Sep 2018 10:40

Tgt Ion: 75 Resp: 62720

Ion Ratio Lower Upper

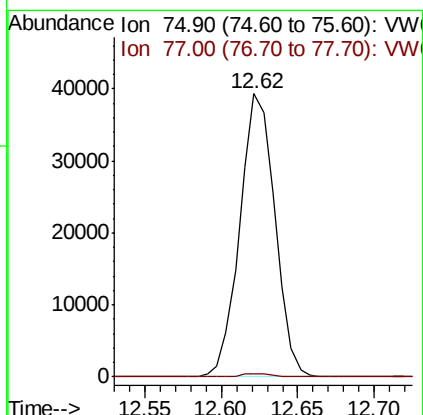
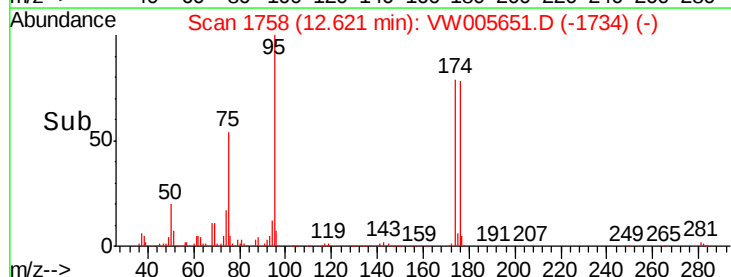
75 100

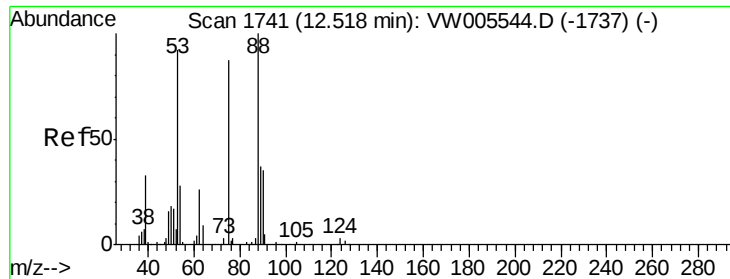
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 156.618 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005651.D

Acq: 26 Sep 2018 10:40

Instrument :

MSVOA\_W

ClientSampleId :

OR-01-092418-BRE

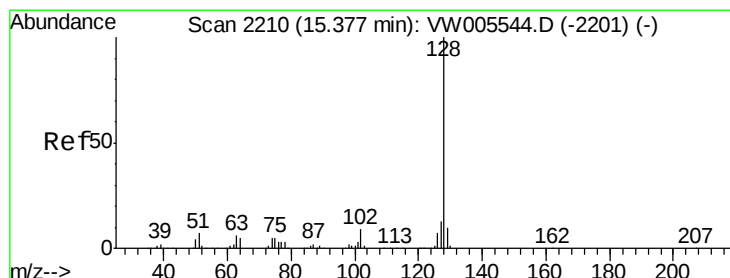
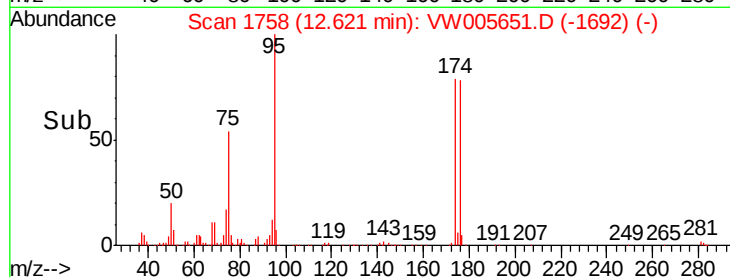
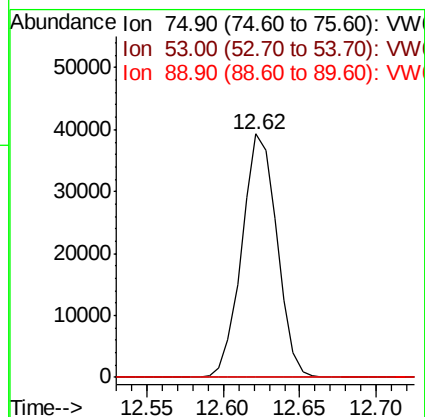
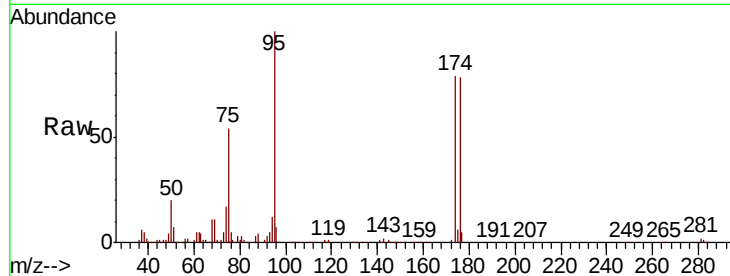
Tot Ion: 75 Resp: 62720

Ion Ratio Lower Upper

75 100

53 0.2 85.8 128.6#

89 0.0 37.3 55.9#



#95

Naphthalene

Concen: 3.670 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005651.D

Acq: 26 Sep 2018 10:40

Tgt Ion: 128 Resp: 13669

Ion Ratio Lower Upper

128 100

127 14.0 10.9 16.3

129 13.7 8.6 13.0#

