

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101018\  
 Data File : VW005955.D  
 Acq On : 09 Oct 2018 23:13  
 Operator : SY/AP  
 Sample : J5201-03RE  
 Misc : 5.97G/5ML/MSVOA W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EO-02-100818-BRE

Quant Time: Oct 10 01:22:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 02:14:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 525      | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 618      | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 105      | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 0.00  | 152  | 0        | 0.00  | ug/l  | -13.57   |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 175      | 34.34 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 68.68% |          |
| 35) Dibromofluoromethane    | 7.90  | 113  | 166      | 42.07 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 84.14% |          |
| 50) Toluene-d8              | 10.34 | 98   | 627      | 41.30 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.60% |          |
| 62) 4-Bromofluorobenzene    | 0.00  | 95   | 0        | 0.00  | ug/l   |          |
| Spiked Amount               |       |      | Recovery | =     | 0.00%  |          |

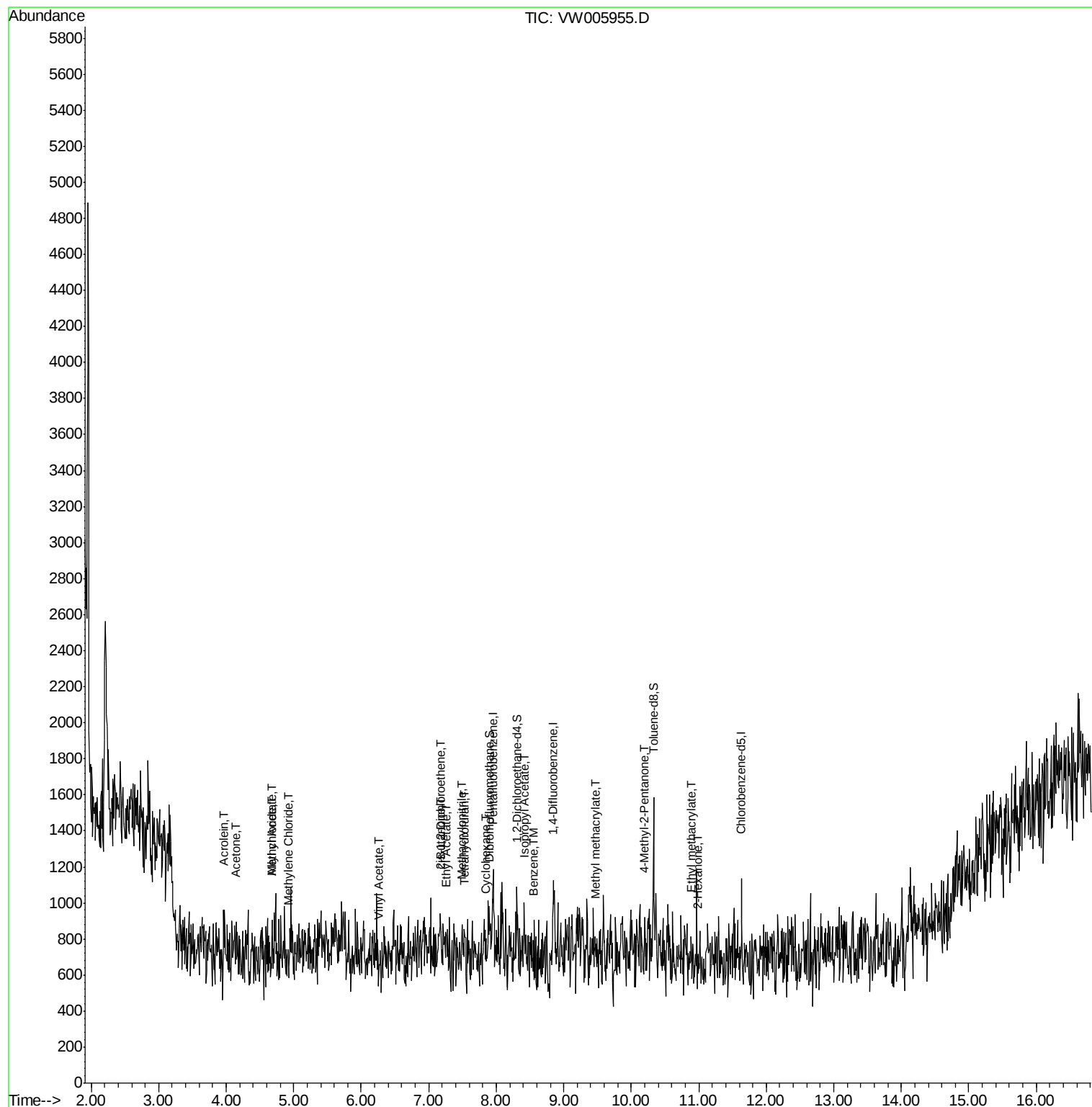
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 13) Acrolein               | 3.96  | 56   | 22       | 66.094  | ug/l # | 38     |
| 14) Allyl chloride         | 4.68  | 41   | 92       | 11.673  | ug/l # | 28     |
| 16) Acetone                | 4.15  | 43   | 168      | 165.029 | ug/l # | 44     |
| 18) Methyl Acetate         | 4.67  | 43   | 142      | 55.276  | ug/l # | 51     |
| 20) Methylene Chloride     | 4.92  | 84   | 20       | 3.921   | ug/l # | 6      |
| 23) Vinyl Acetate          | 6.26  | 43   | 33       | 3.639   | ug/l # | 72     |
| 25) 2-Butanone             | 7.18  | 43   | 251      | 173.351 | ug/l # | 49     |
| 27) cis-1,2-Dichloroethene | 7.18  | 96   | 23       | 4.038   | ug/l # | 1      |
| 29) Tetrahydrofuran        | 7.53  | 42   | 26       | 28.406  | ug/l # | 34     |
| 31) Cyclohexane            | 7.85  | 56   | 19       | 2.129   | ug/l # | 14     |
| 37) Ethyl Acetate          | 7.26  | 43   | 50       | 19.939  | ug/l # | 69     |
| 40) Benzene                | 8.55  | 78   | 21       | 1.296   | ug/l # | 51     |
| 41) Methacrylonitrile      | 7.50  | 41   | 256      | 163.061 | ug/l # | 43     |
| 43) Isopropyl Acetate      | 8.41  | 43   | 142      | 27.108  | ug/l # | 52     |
| 48) Methyl methacrylate    | 9.48  | 41   | 149      | 59.711  | ug/l # | 40     |
| 51) 4-Methyl-2-Pentanone   | 10.20 | 43   | 139      | 54.492  | ug/l # | 37     |
| 56) Ethyl methacrylate     | 10.88 | 69   | 19       | 4.565   | ug/l # | 22     |
| 59) 2-Hexanone             | 10.98 | 43   | 21       | 11.482  | ug/l # | 26     |

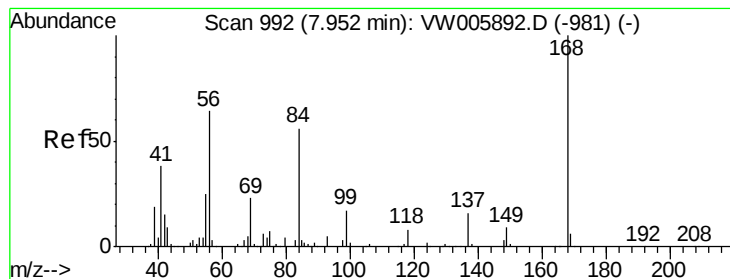
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW101018\  
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Quant Time: Oct 10 01:22:06 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 09 02:14:04 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: VW005955.D

Acq: 09 Oct 2018 23:13

Instrument :

MSVOA\_W

ClientSampleId :

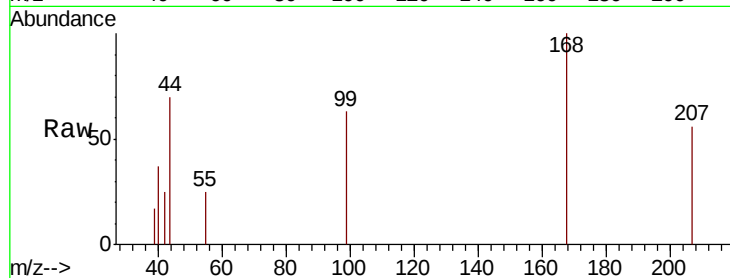
EO-02-100818-BRE

Tot Ion:168 Resp: 525

Ion Ratio Lower Upper

168 100

99 63.2 40.9 61.3#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

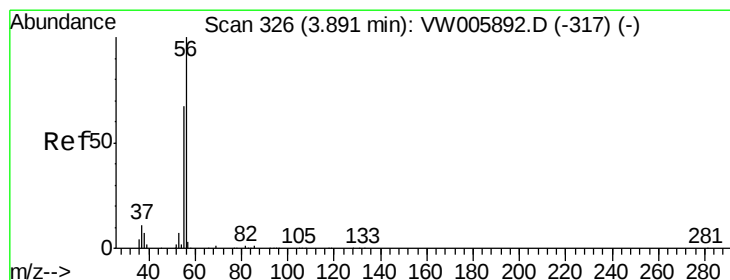
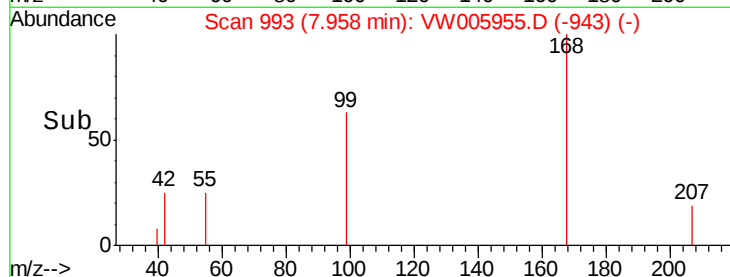
300

200

100

0

Time-->



#13

Acrolein

Concen: 66.094 ug/l

RT: 3.96 min Scan# 338

Delta R.T. 0.07 min

Lab File: VW005955.D

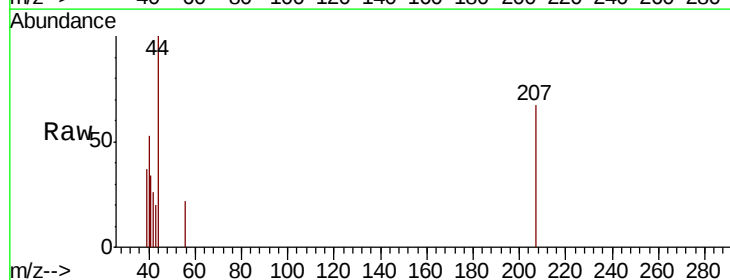
Acq: 09 Oct 2018 23:13

Tgt Ion: 56 Resp: 22

Ion Ratio Lower Upper

56 100

55 118.2 54.6 82.0#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

100

80

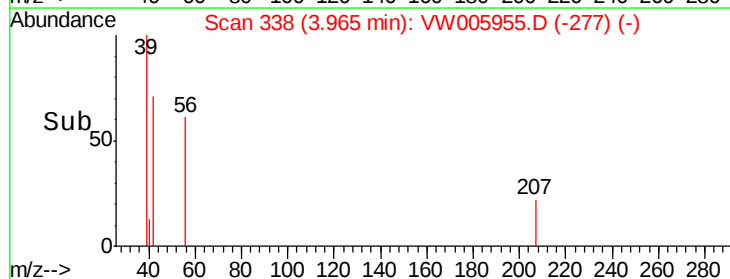
60

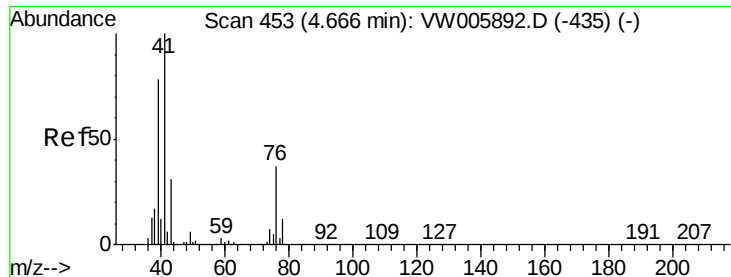
40

20

0

Time-->





#14

Allvl chloride

Concen: 11.673 ug/l

RT: 4.68 min Scan# 456

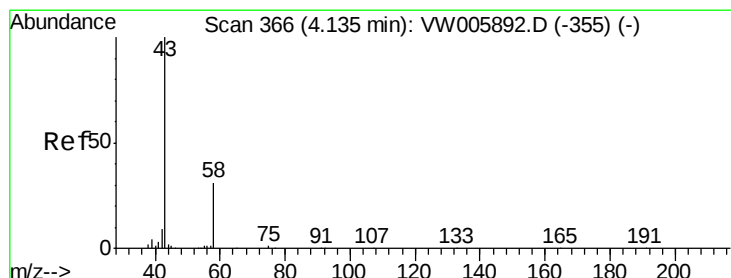
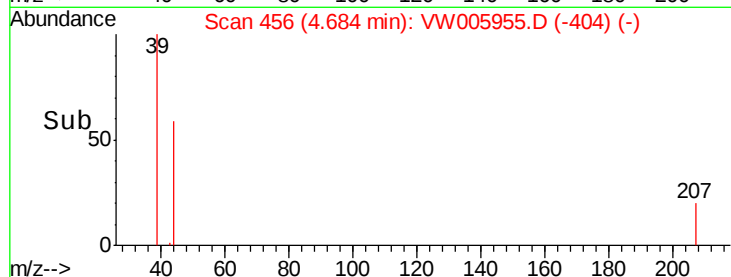
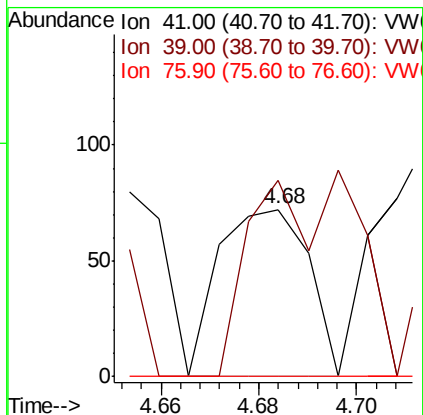
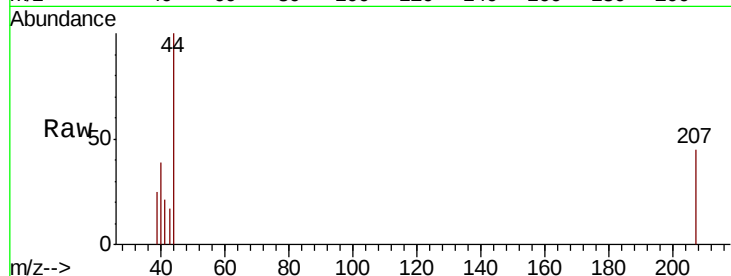
Delta R.T. 0.02 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-02-100818-BRE

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 92    |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 141.3 | 60.8  | 91.2# |
| 76       | 0.0   | 29.6  | 44.4# |



#16

Acetone

Concen: 165.029 ug/l

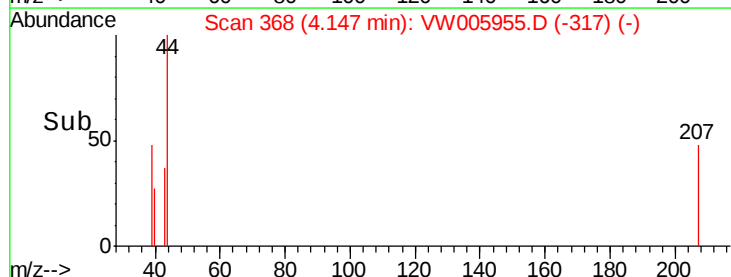
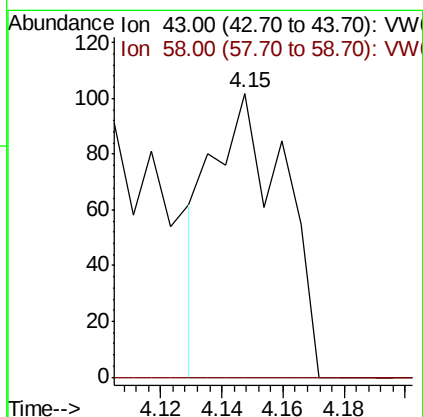
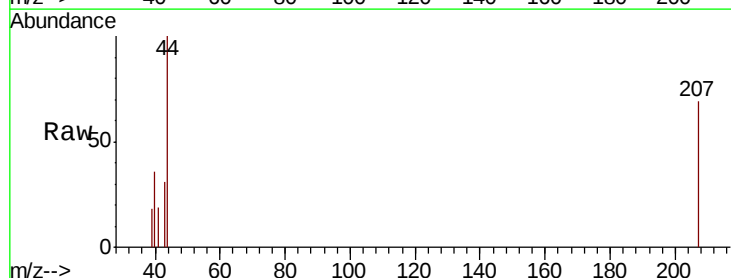
RT: 4.15 min Scan# 368

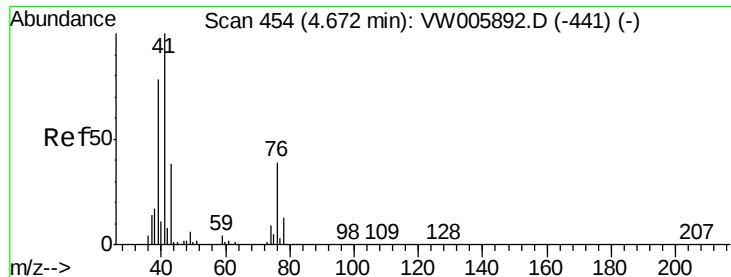
Delta R.T. 0.01 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 168   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 24.7  | 37.1# |

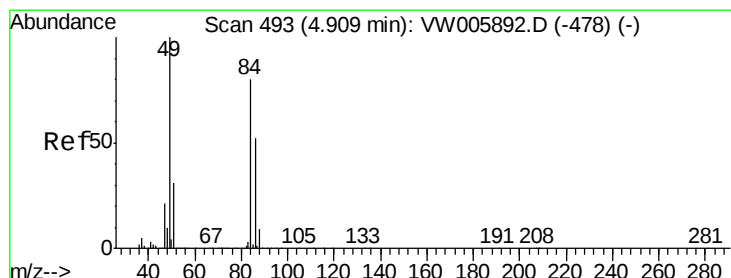
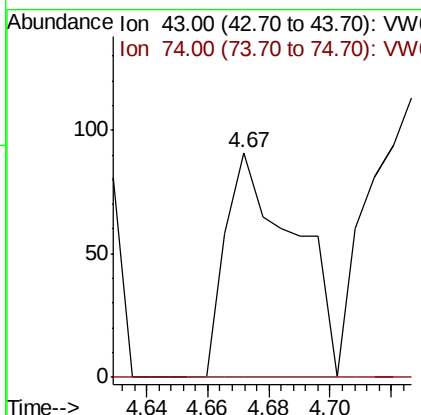
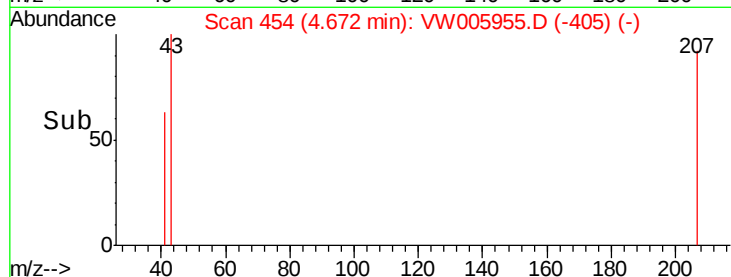
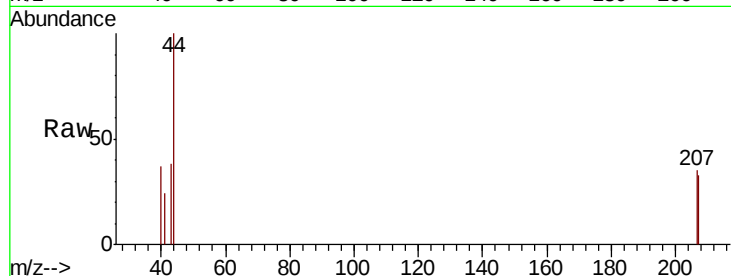




#18  
Methyl Acetate  
Concen: 55.276 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. 0.00 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

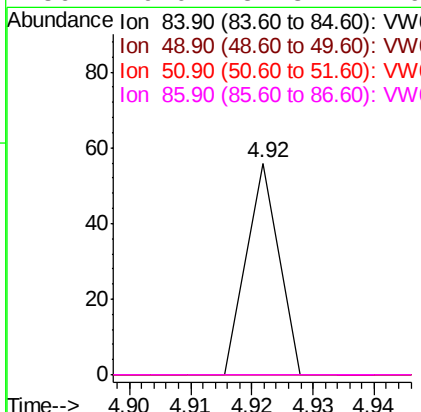
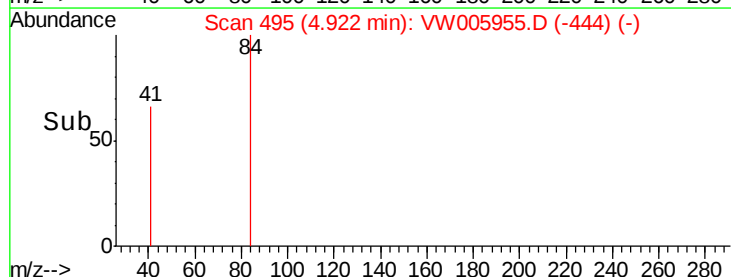
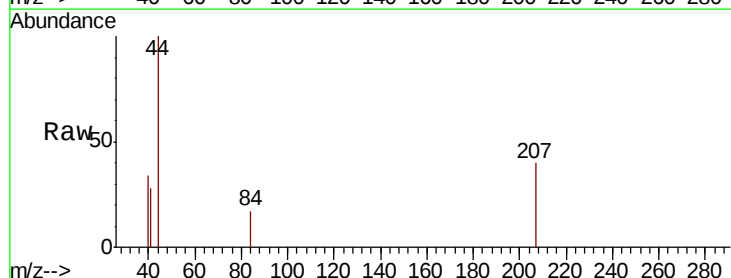
Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-02-100818-BRE

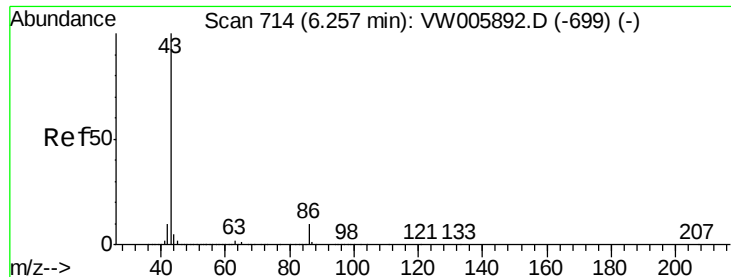
Tot Ion: 43 Resp: 142  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.2 28.8#



#20  
Methylene Chloride  
Concen: 3.921 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

Tgt Ion: 84 Resp: 20  
Ion Ratio Lower Upper  
84 100  
49 0.0 99.9 149.9#  
51 0.0 31.1 46.7#  
86 0.0 51.8 77.6#





#23

Vinyl Acetate

Concen: 3.639 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

Instrument :

MSVOA\_W

ClientSampleId :

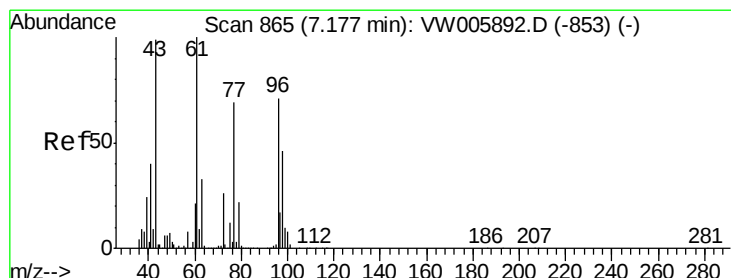
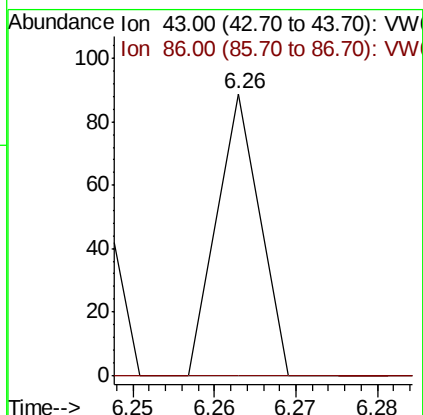
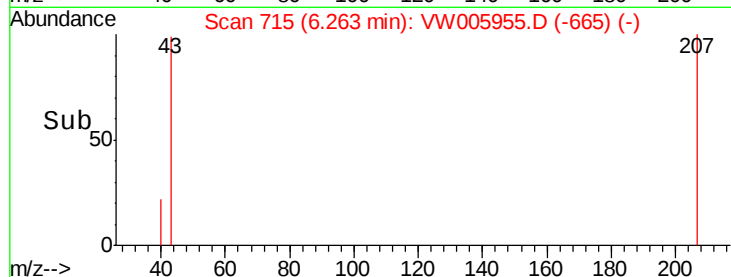
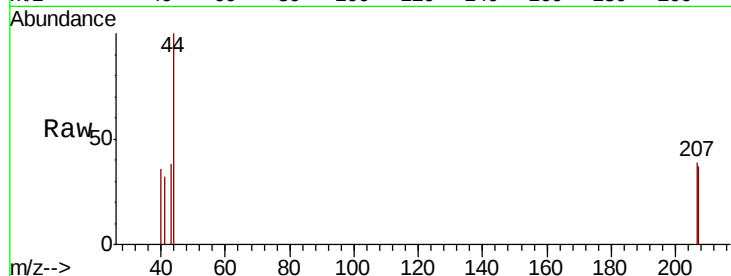
EO-02-100818-BRE

Tot Ion: 43 Resp: 33

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#



#25

2-Butanone

Concen: 173.351 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW005955.D

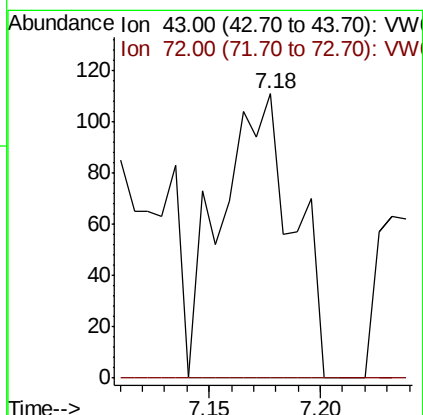
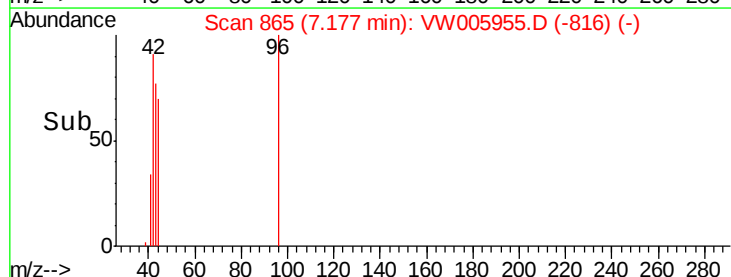
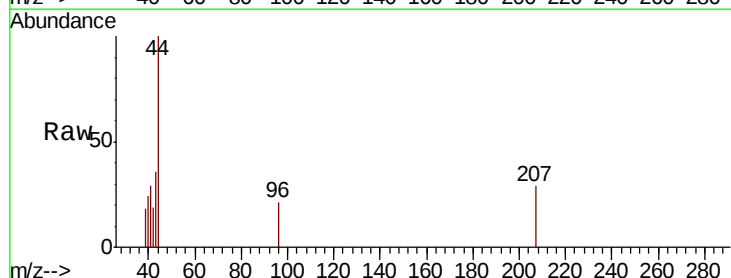
Acq: 09 Oct 2018 23:13

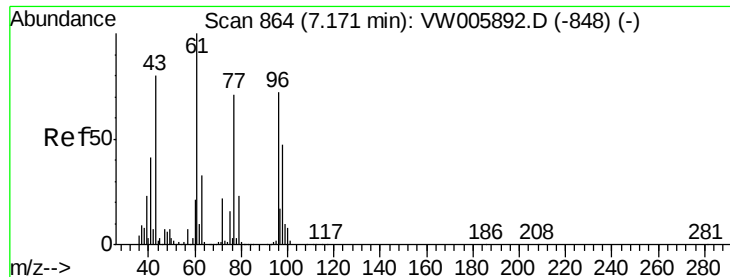
Tgt Ion: 43 Resp: 251

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



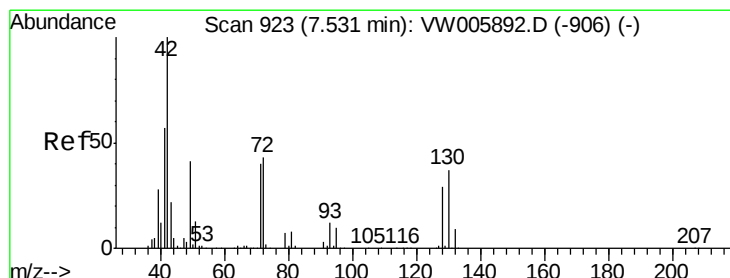
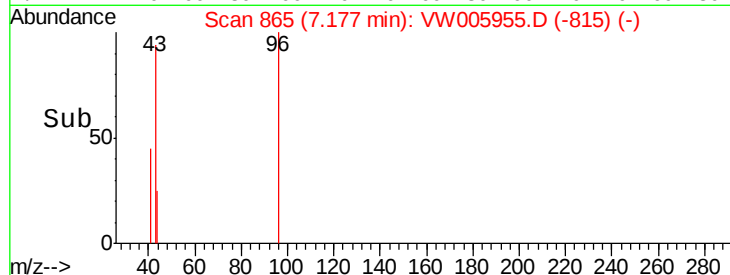
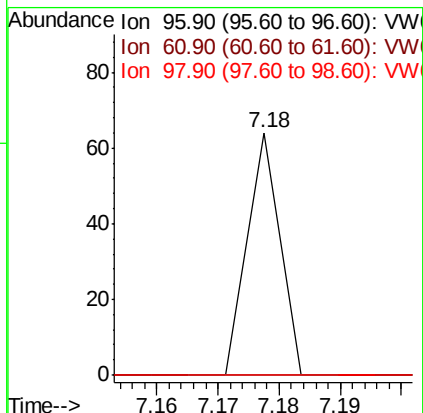
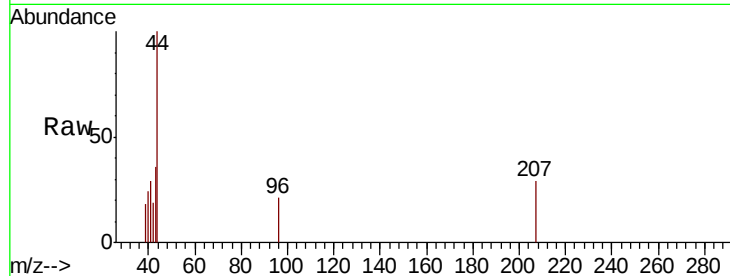


#27

cis-1,2-Dichloroethene  
 Concen: 4.038 ug/l  
 RT: 7.18 min Scan# 865  
 Delta R.T. 0.01 min  
 Lab File: VW005955.D  
 Acq: 09 Oct 2018 23:13

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EO-02-100818-BRE

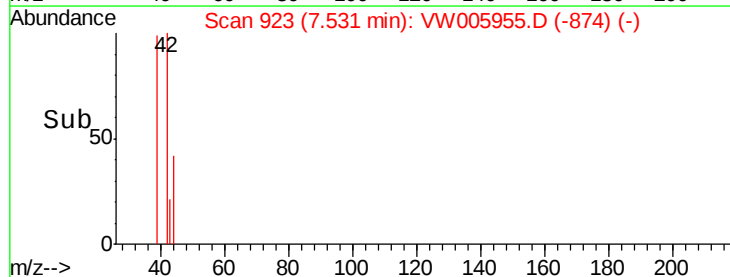
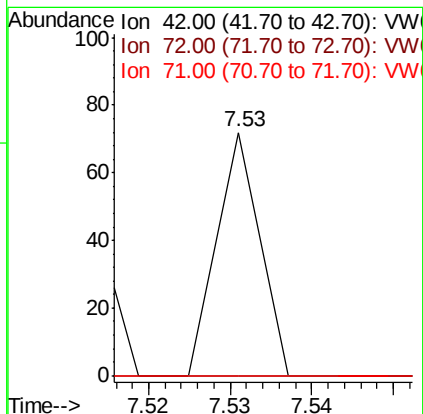
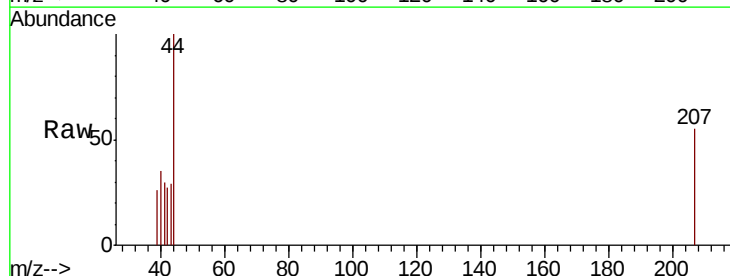
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 0.0   | 0.0   | 284.0 |
| 98      | 0.0   | 0.0   | 129.8 |

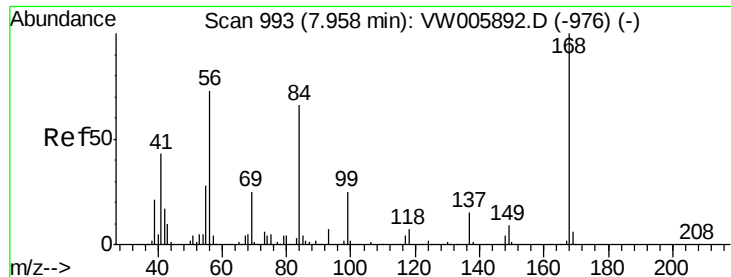


#29

Tetrahydrofuran  
 Concen: 28.406 ug/l  
 RT: 7.53 min Scan# 923  
 Delta R.T. 0.00 min  
 Lab File: VW005955.D  
 Acq: 09 Oct 2018 23:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 34.6  | 51.8# |
| 71      | 0.0   | 32.6  | 49.0# |

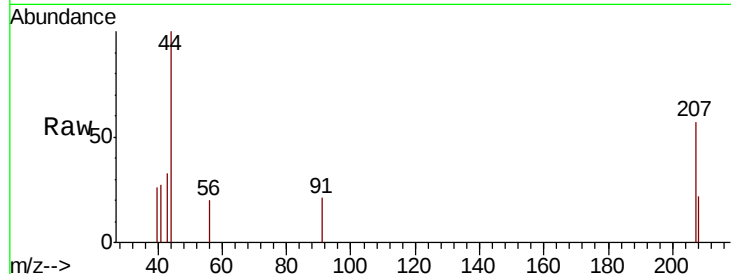




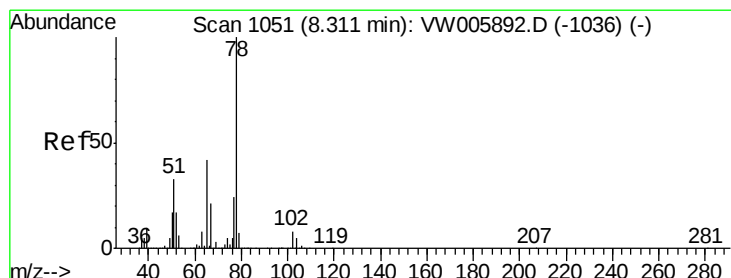
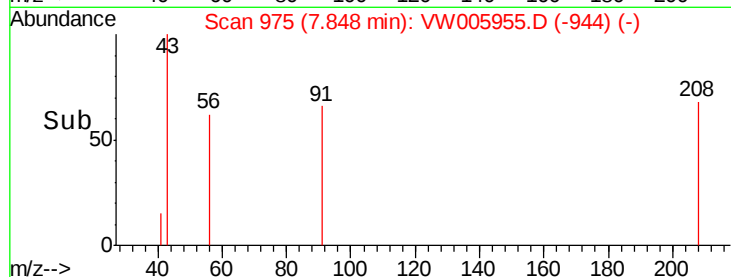
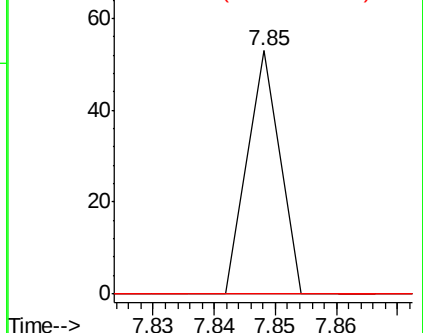
#31  
Cyclohexane  
Concen: 2.129 ug/l  
RT: 7.85 min Scan# 975  
Delta R.T. -0.11 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-02-100818-BRE

Tot Ion: 56 Resp: 19  
Ion Ratio Lower Upper  
56 100  
69 0.0 27.9 41.9#  
84 0.0 72.3 108.5#

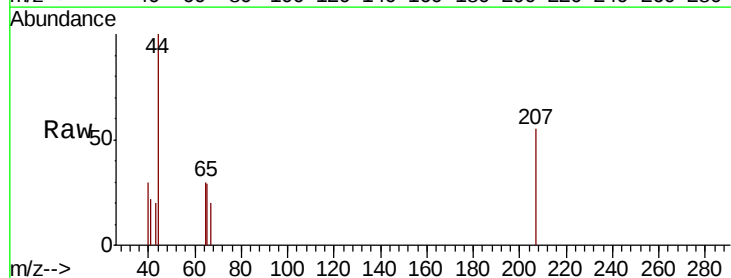


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

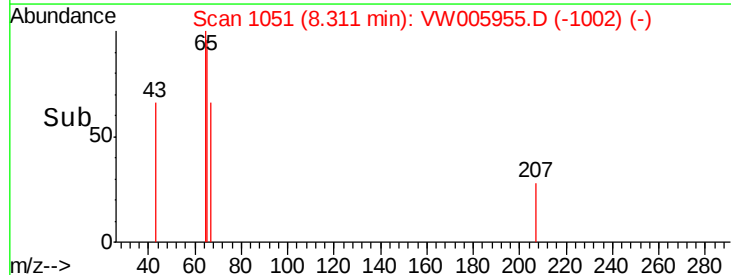
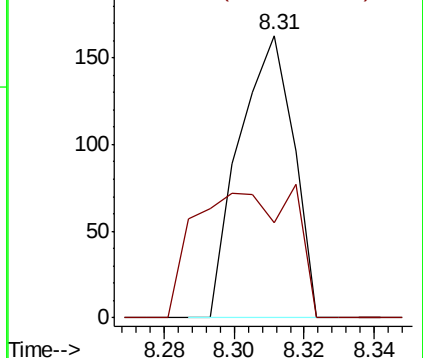


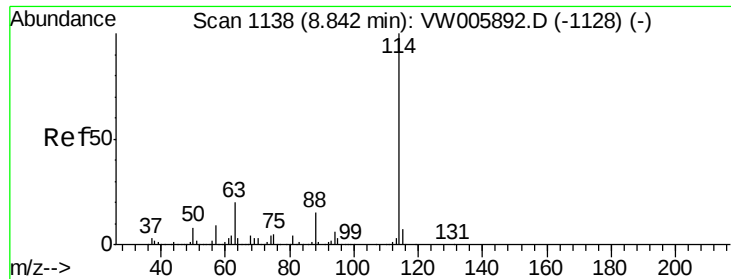
#33  
1,2-Dichloroethane-d4  
Concen: 34.337 ug/l  
RT: 8.31 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

Tgt Ion: 65 Resp: 175  
Ion Ratio Lower Upper  
65 100  
67 82.3 0.0 104.6



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

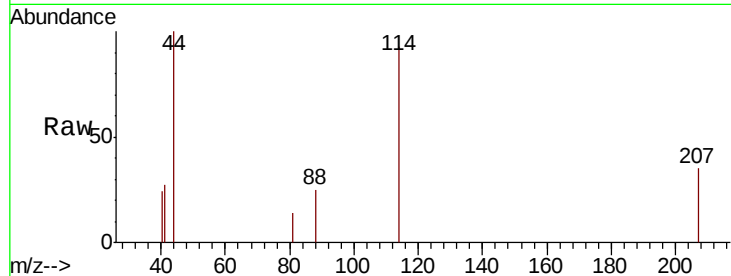




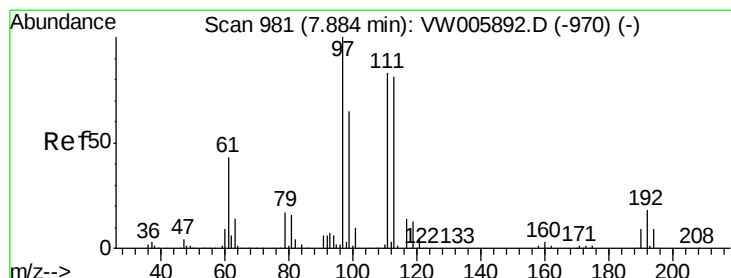
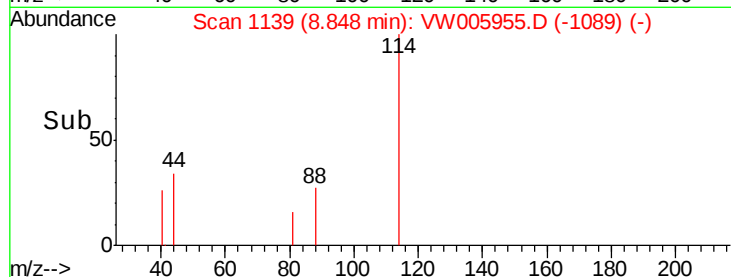
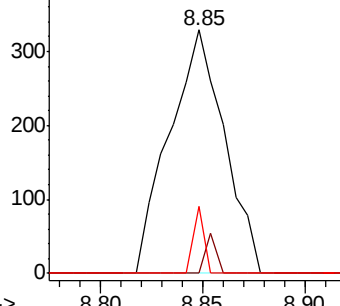
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.01 min  
 Lab File: VW005955.D  
 Acq: 09 Oct 2018 23:13

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EO-02-100818-BRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 0.0   | 0.0   | 39.2  |
| 88      | 27.4  | 0.0   | 30.8  |

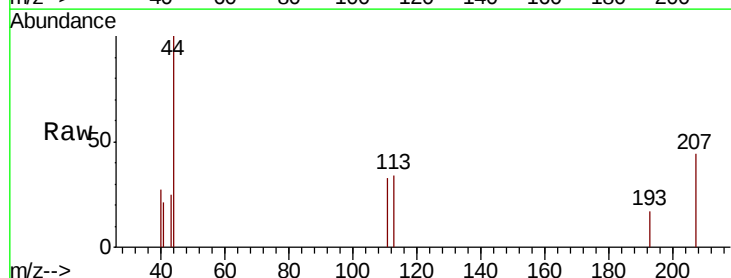


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

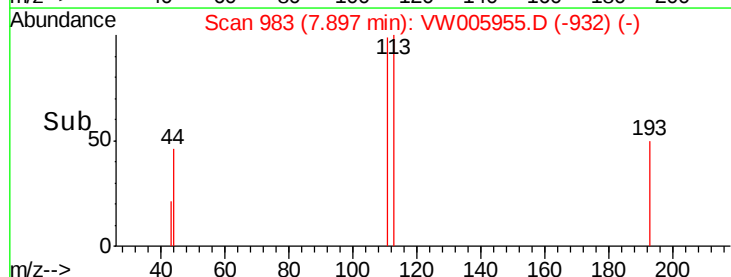
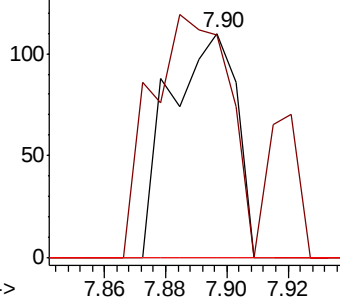


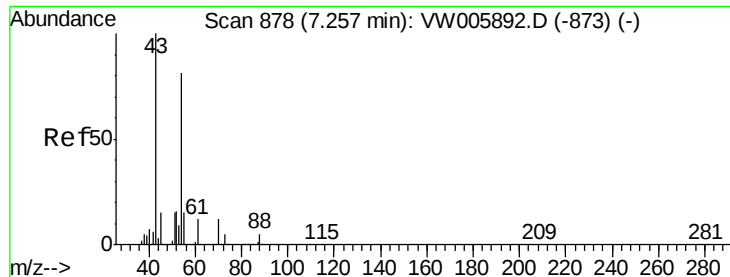
#35  
 Dibromofluoromethane  
 Concen: 42.071 ug/l  
 RT: 7.90 min Scan# 983  
 Delta R.T. 0.01 min  
 Lab File: VW005955.D  
 Acq: 09 Oct 2018 23:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 113     | 100   |       |        |
| 111     | 127.1 | 82.0  | 123.0# |
| 192     | 0.0   | 18.3  | 27.5#  |



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

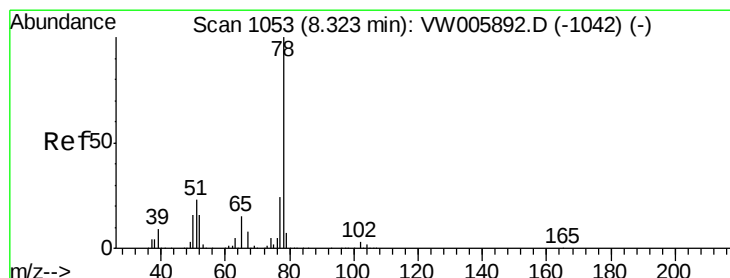
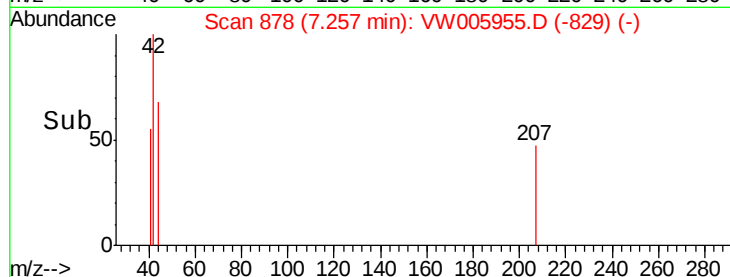
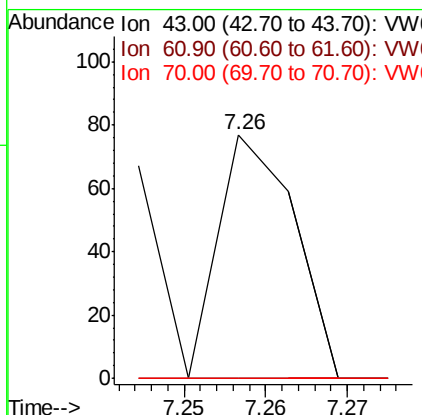
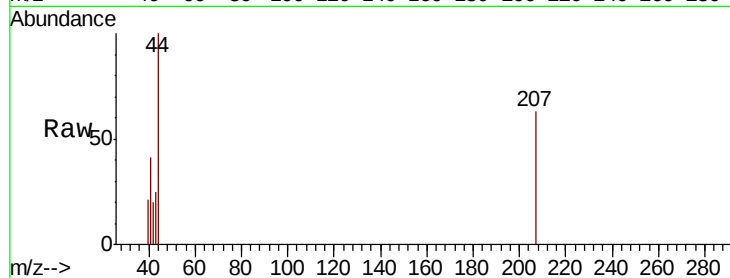




#37  
Ethyl Acetate  
Concen: 19.939 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. 0.00 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

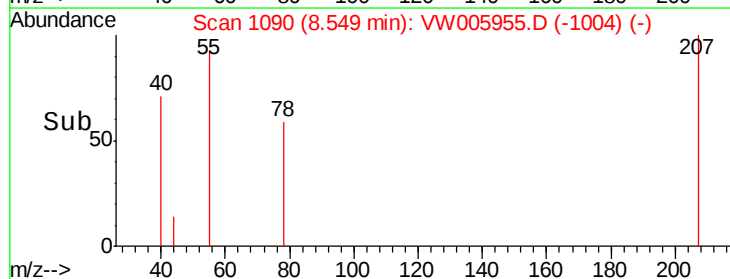
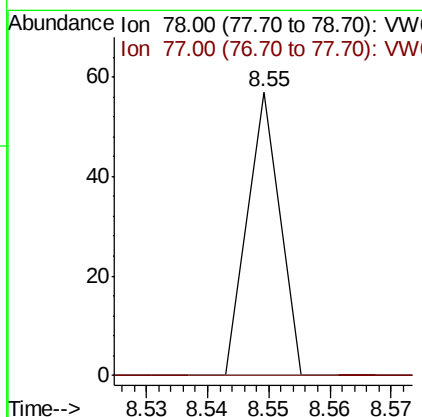
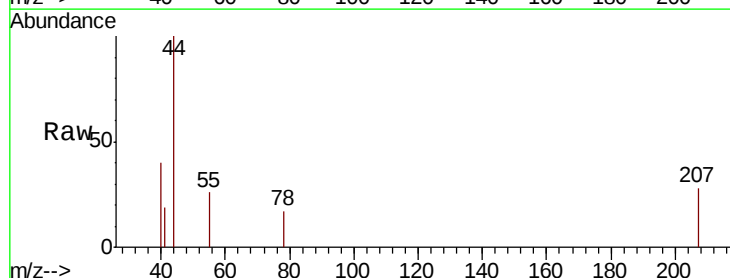
Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-02-100818-BRE

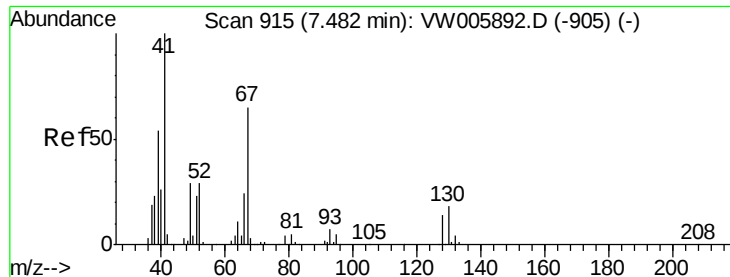
| Tot Ion   | 43  | Resp | 50   |
|-----------|-----|------|------|
| Ion Ratio | 100 |      |      |
| Lower     |     | 10.6 |      |
| Upper     |     | 16.0 |      |
| 61        | 0.0 |      |      |
| 70        | 0.0 | 8.6  | 13.0 |



#40  
Benzene  
Concen: 1.296 ug/l  
RT: 8.55 min Scan# 1090  
Delta R.T. 0.23 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

| Tgt Ion   | 78  | Resp | 21 |
|-----------|-----|------|----|
| Ion Ratio | 100 |      |    |
| Lower     |     | 19.1 |    |
| Upper     |     | 28.7 |    |
| 77        | 0.0 |      |    |

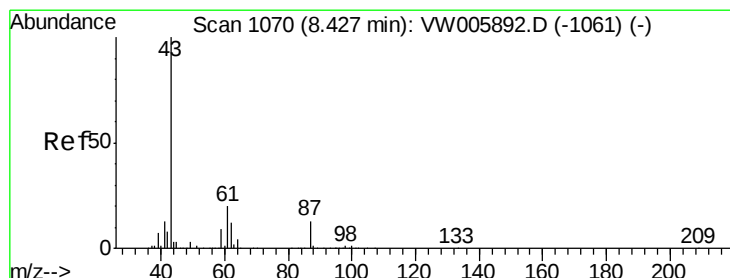
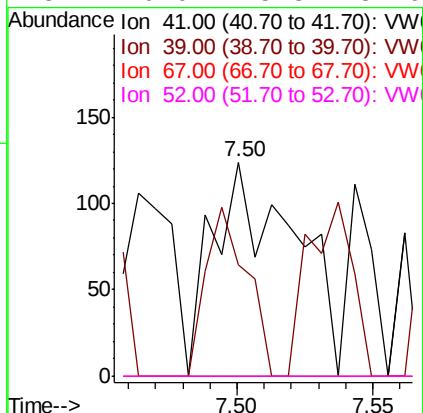
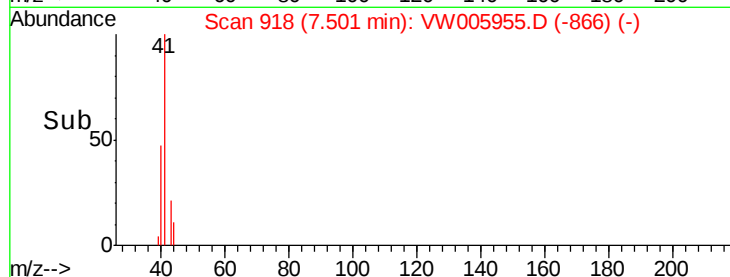
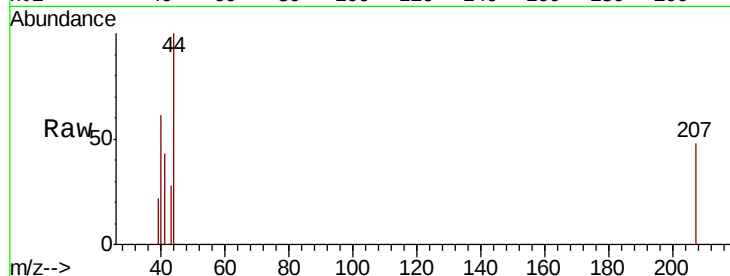




#41  
Methacrylonitrile  
Concen: 163.061 ug/l  
RT: 7.50 min Scan# 918  
Delta R.T. 0.02 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

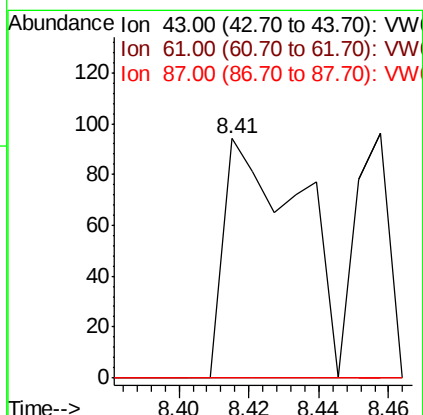
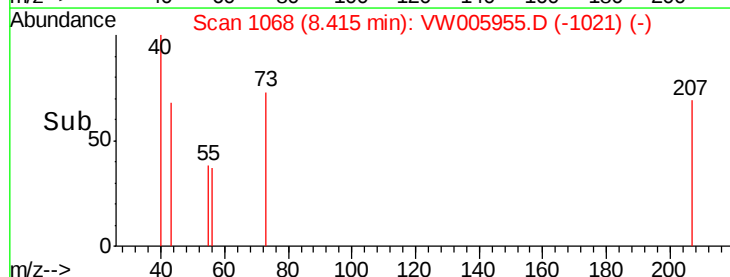
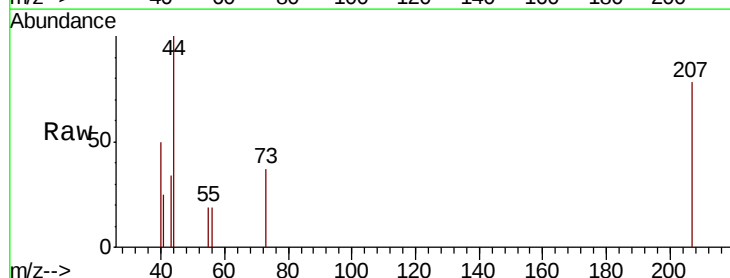
Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-02-100818-BRE

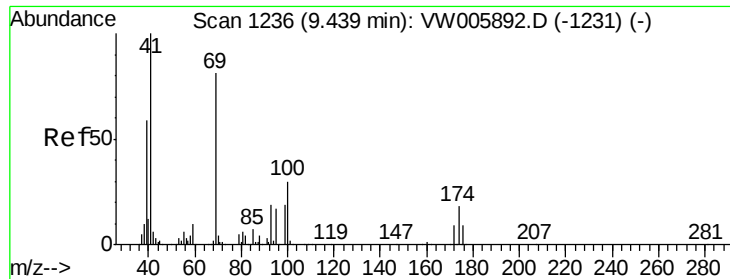
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 256   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 39.8  | 45.0  | 67.4# |
| 67       | 0.0   | 55.8  | 83.8# |
| 52       | 0.0   | 25.3  | 37.9# |



#43  
Isopropyl Acetate  
Concen: 27.108 ug/l  
RT: 8.41 min Scan# 1068  
Delta R.T. -0.01 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 142   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 23.1  | 34.7# |
| 87       | 0.0   | 10.7  | 16.1# |

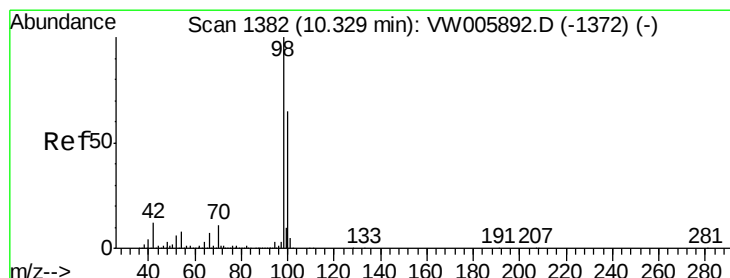
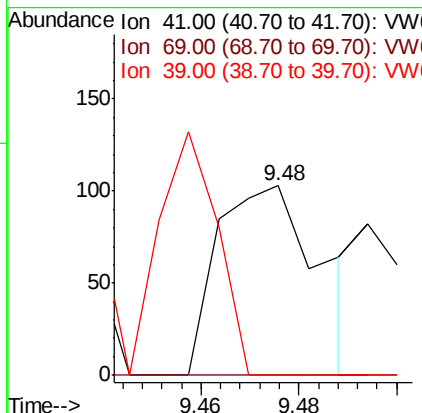
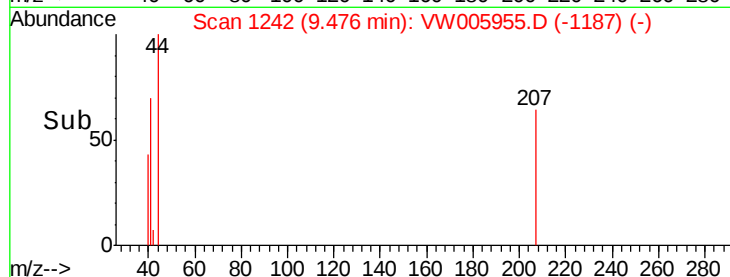
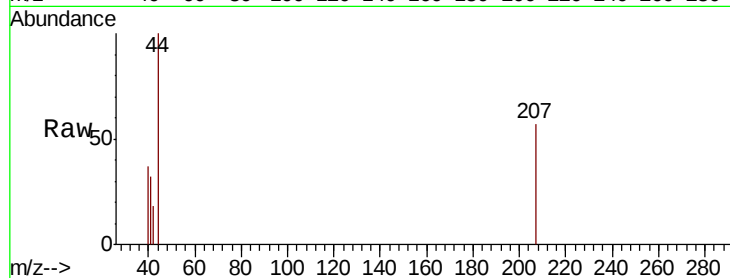




#48  
Methvl methacrylate  
Concen: 59.711 ug/l  
RT: 9.48 min Scan# 1242  
Delta R.T. 0.04 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

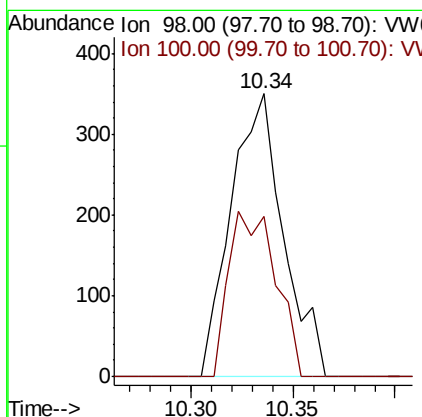
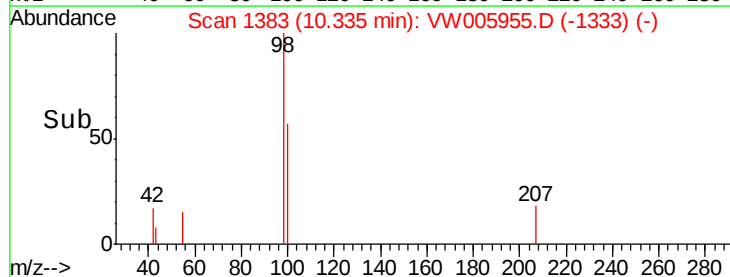
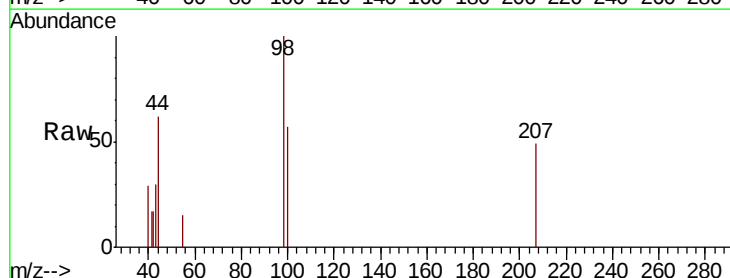
Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-02-100818-BRE

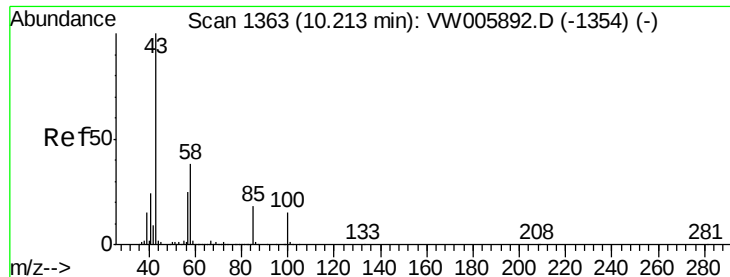
Tot Ion: 41 Resp: 149  
Ion Ratio Lower Upper  
41 100  
69 0.0 68.7 103.1#  
39 72.5 50.0 75.0



#50  
Toluene-d8  
Concen: 41.303 ug/l  
RT: 10.34 min Scan# 1383  
Delta R.T. 0.01 min  
Lab File: VW005955.D  
Acq: 09 Oct 2018 23:13

Tgt Ion: 98 Resp: 627  
Ion Ratio Lower Upper  
98 100  
100 52.2 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 54.492 ug/l

RT: 10.20 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

Instrument :

MSVOA\_W

ClientSampleId :

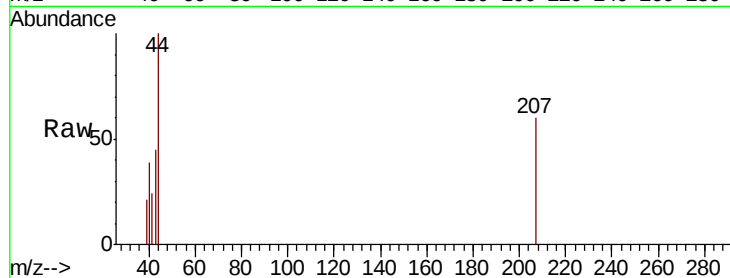
EO-02-100818-BRE

Tot Ion: 43 Resp: 139

Ion Ratio Lower Upper

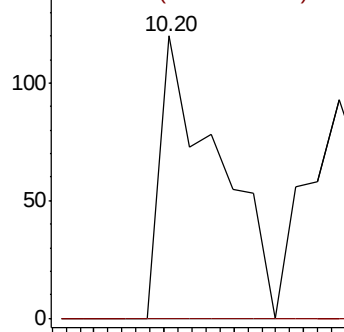
43 100

58 0.0 30.2 45.4#

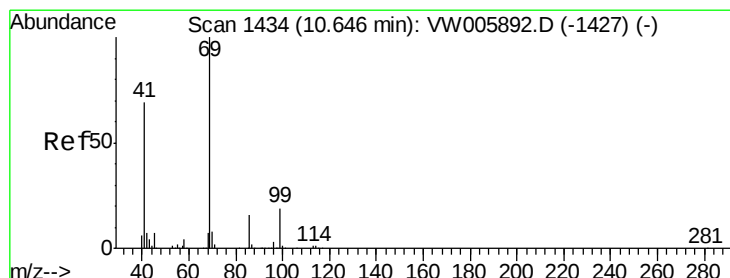
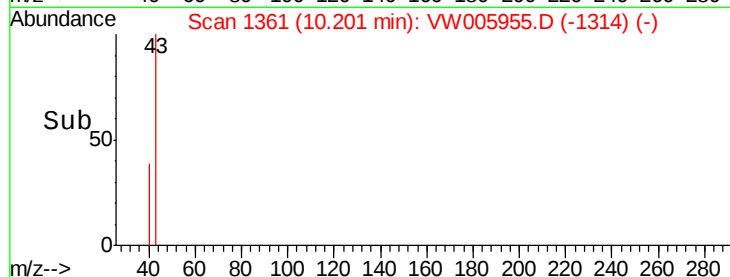


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



Time-->



#56

Ethyl methacrylate

Concen: 4.565 ug/l

RT: 10.88 min Scan# 1473

Delta R.T. 0.24 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

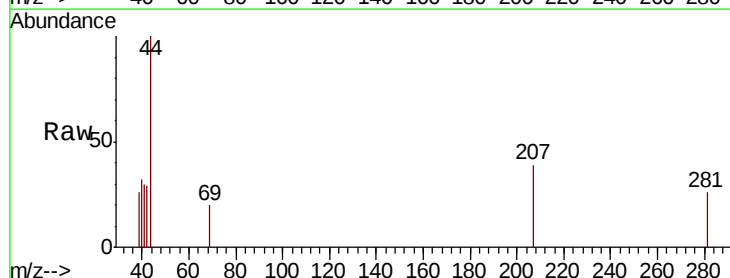
Tgt Ion: 69 Resp: 19

Ion Ratio Lower Upper

69 100

41 0.0 56.0 84.0#

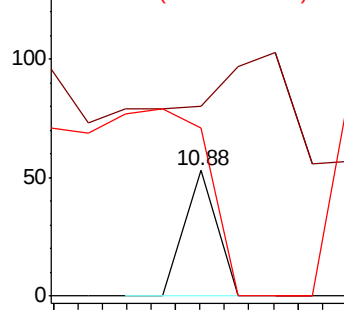
39 0.0 33.5 50.3#



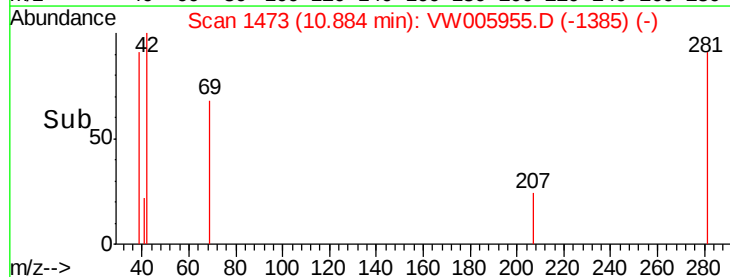
Abundance Ion 69.00 (68.70 to 69.70): VW

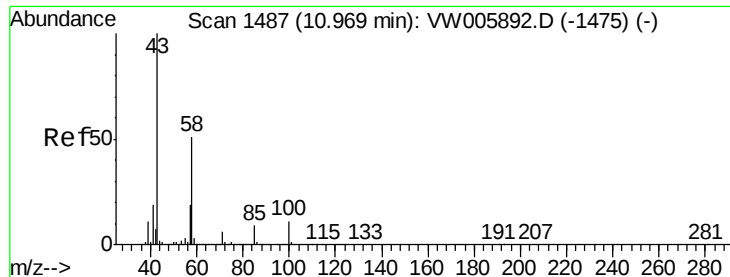
Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



Time-->





#59

2-Hexanone

Concen: 11.482 ug/l

RT: 10.98 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

Instrument :

MSVOA\_W

ClientSampleId :

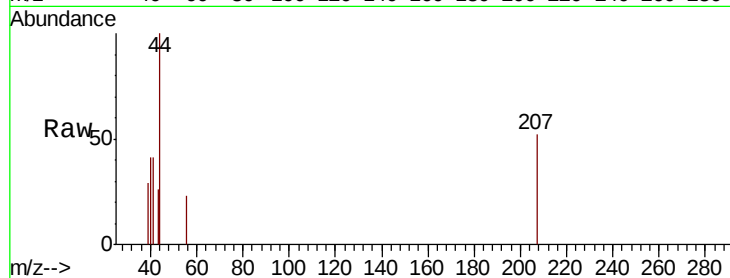
EO-02-100818-BRE

Tot Ion: 43 Resp: 21

Ion Ratio Lower Upper

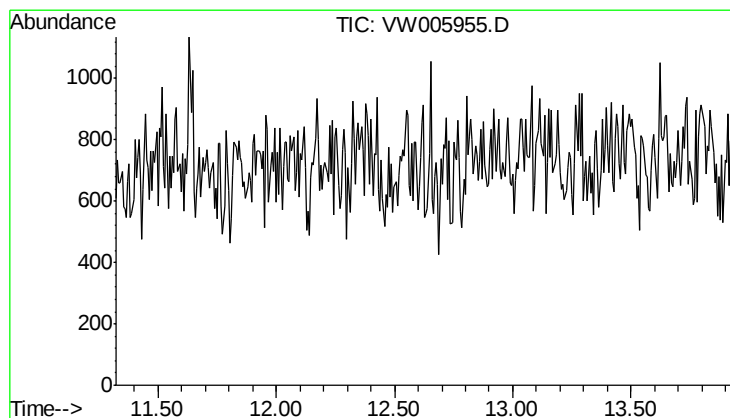
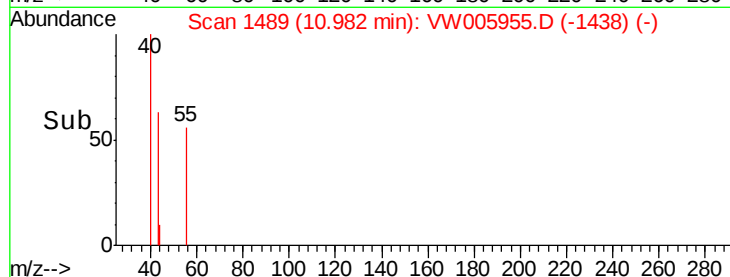
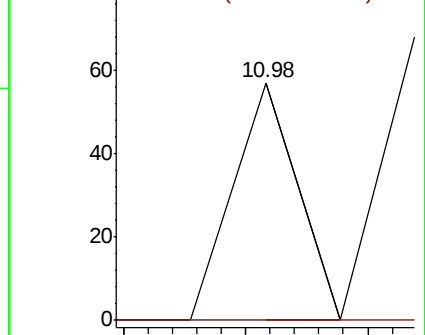
43 100

58 0.0 25.7 77.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.62 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

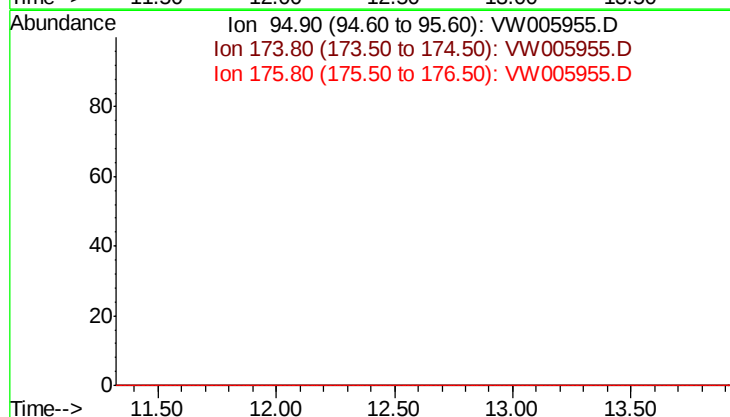
Tgt Ion: 95

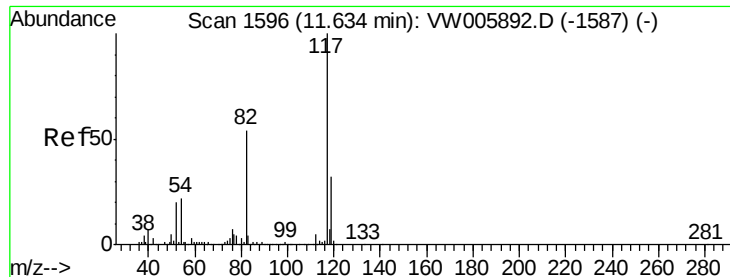
Sig Exp Ratio

95 100

174 88.2

176 86.5





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.01 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

Instrument :

MSVOA\_W

ClientSampleId :

EO-02-100818-BRE

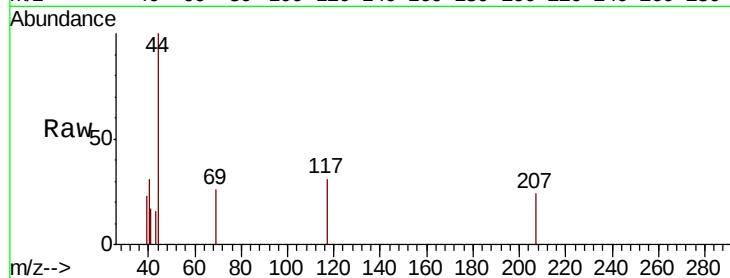
Tot Ion:117 Resp: 105

Ion Ratio Lower Upper

117 100

82 0.0 43.5 65.3#

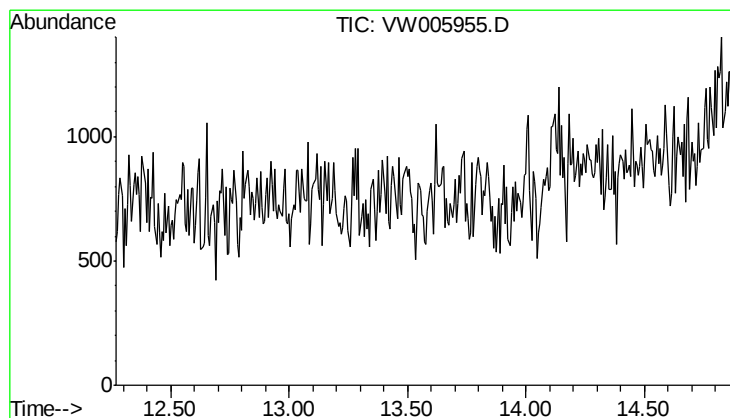
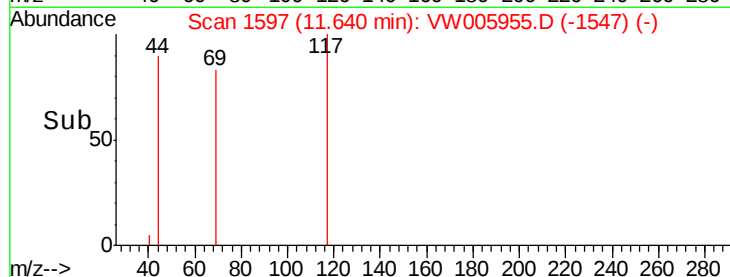
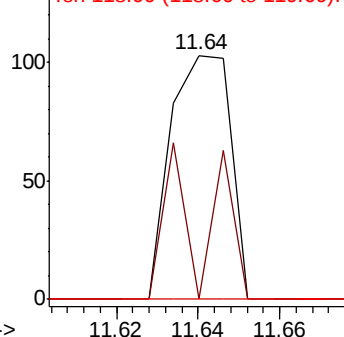
119 0.0 25.4 38.2#



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 13.57 min

Lab File: VW005955.D

Acq: 09 Oct 2018 23:13

Tgt Ion: 152

Sig Exp Ratio

152 100

115 56.7

150 174.6

