

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072818\  
 Data File : VW004261.D  
 Acq On : 27 Jul 2018 08:54  
 Operator : SY/AP  
 Sample : J4099-06RE  
 Misc : 7.06G/5ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 27 11:08:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 15:06:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 272785   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 459939   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 301564   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 84348    | 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   | 157618   | 51.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.38% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 109253   | 37.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.04%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 412760   | 36.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 72.10%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 104610   | 25.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 50.66%  |          |

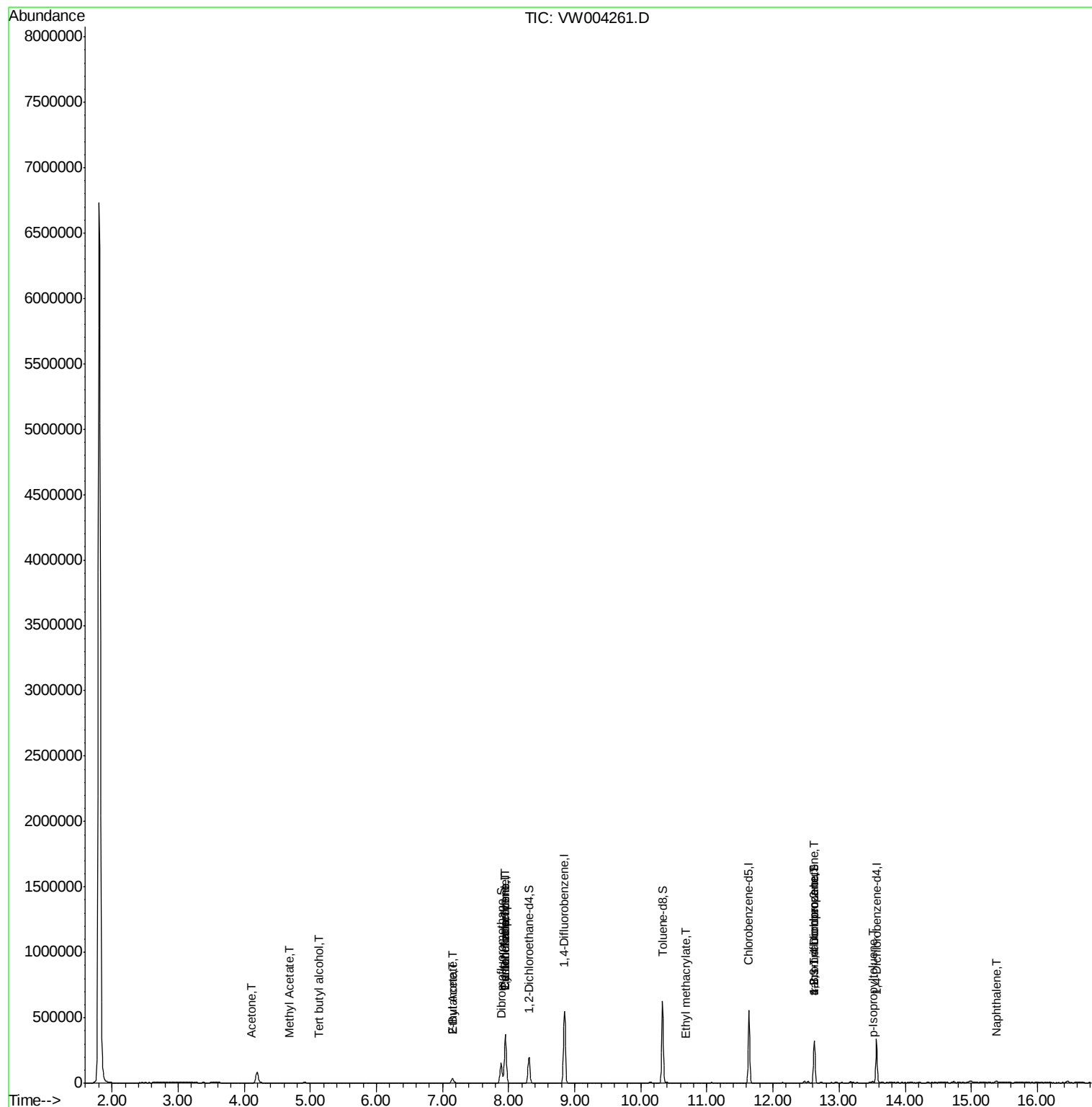
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 11) Tert butyl alcohol         | 5.12  | 59   | 1413     | 6.71      | ug/l  | # 76   |
| 16) Acetone                    | 4.12  | 43   | 4861     | 6.63      | ug/l  | 89     |
| 18) Methyl Acetate             | 4.67  | 43   | 3421     | 1.95      | ug/l  | 97     |
| 20) Methylene Chloride         | 4.90  | 84   | 3598     | Below Cal | #     | 82     |
| 25) 2-Butanone                 | 7.15  | 43   | 2892     | 2.93      | ug/l  | # 85   |
| 31) Cyclohexane                | 7.95  | 56   | 6066     | 1.20      | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 22118    | 4.67      | ug/l  | # 49   |
| 37) Ethyl Acetate              | 7.15  | 43   | 2892     | 1.27      | ug/l  | # 10   |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 26806    | 6.06      | ug/l  | # 19   |
| 56) Ethyl methacrylate         | 10.68 | 69   | 23       | 2.95      | ug/l  | # 1    |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 53659    | 64.08     | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 53659    | 141.74    | ug/l  | # 11   |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 5940     | 1.08      | ug/l  | 94     |
| 95) Naphthalene                | 15.38 | 128  | 11227    | 3.41      | ug/l  | 98     |

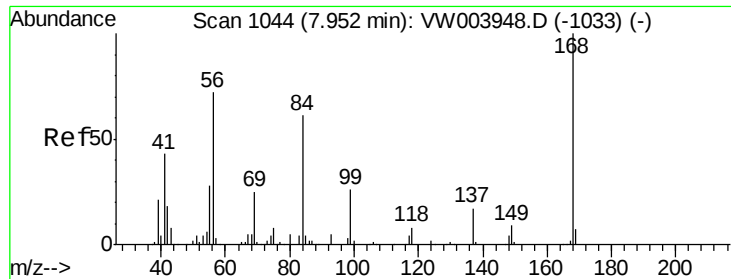
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW072818\  
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Sample : J4099-06RE  
Misc : 7.06G/5ML/MSVOA W/SOIL  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jul 27 11:08:02 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 16 15:06:12 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

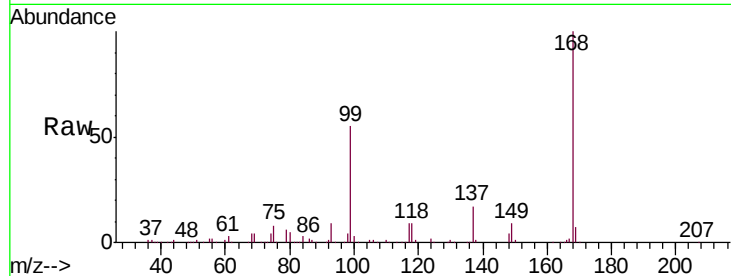
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 272785

Ion Ratio Lower Upper

168 100

99 55.2 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

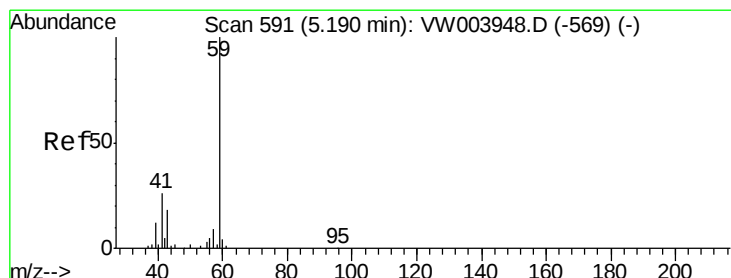
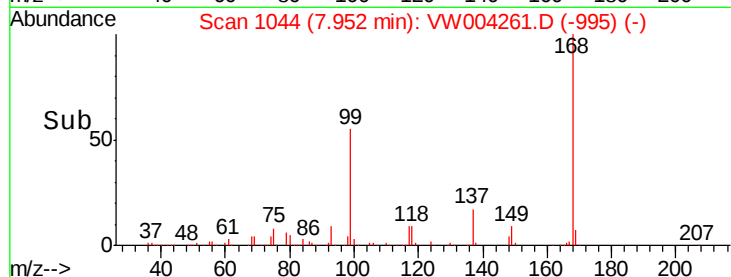
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 6.71 ug/l

RT: 5.12 min Scan# 580

Delta R.T. -0.07 min

Lab File: VW004261.D

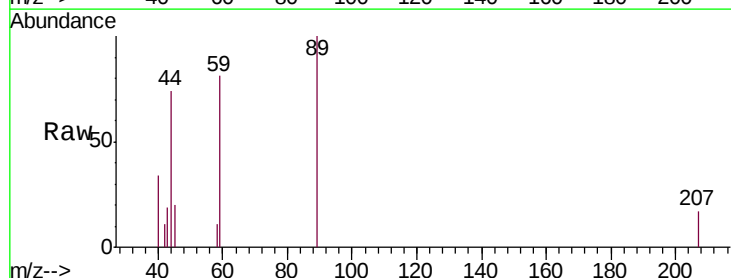
Acq: 27 Jul 2018 08:54

Tgt Ion: 59 Resp: 1413

Ion Ratio Lower Upper

59 100

57 1.6 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

500

400

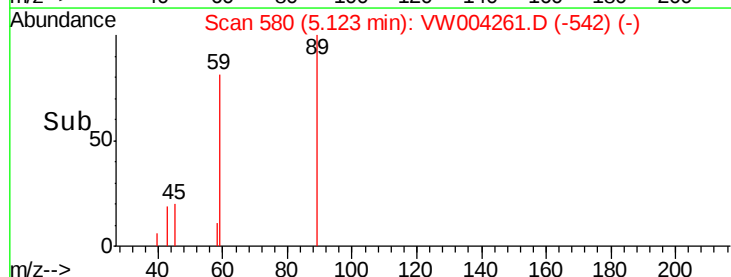
300

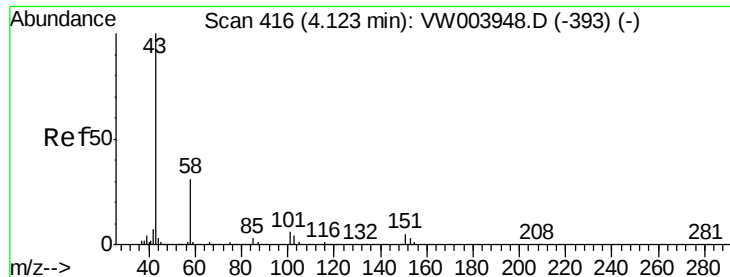
200

100

0

Time-->





#16

Acetone

Concen: 6.63 ug/l

RT: 4.12 min Scan# 415

Delta R.T. -0.01 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

Instrument :

MSVOA\_W

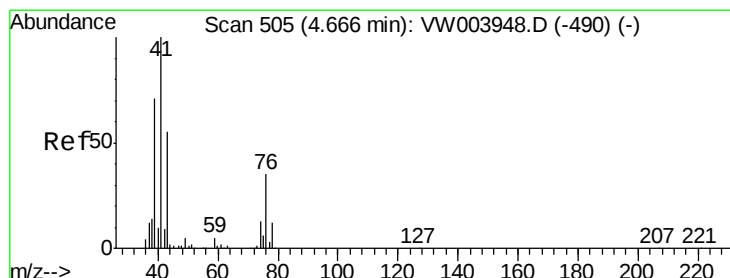
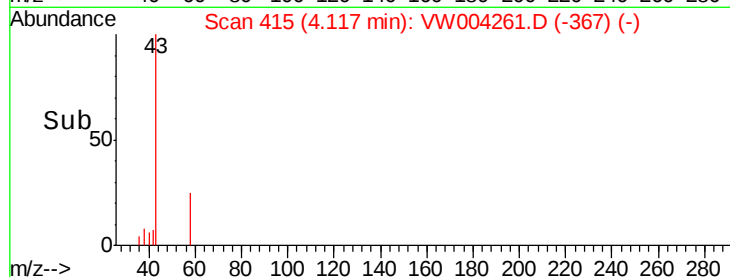
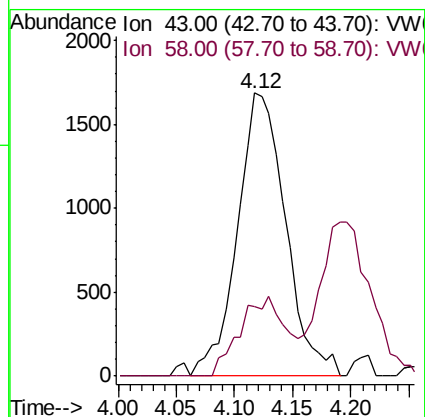
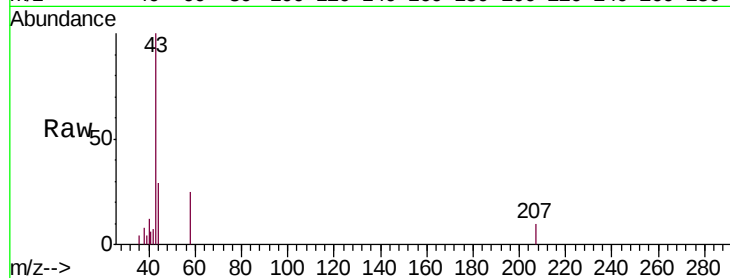
ClientSampleId :

Tot Ion: 43 Resp: 4861

Ion Ratio Lower Upper

43 100

58 24.7 24.5 36.7



#18

Methyl Acetate

Concen: 1.95 ug/l

RT: 4.67 min Scan# 506

Delta R.T. 0.01 min

Lab File: VW004261.D

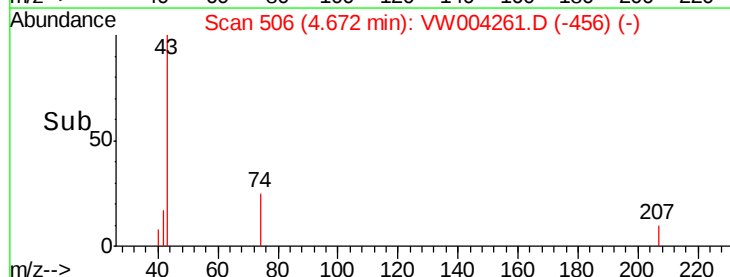
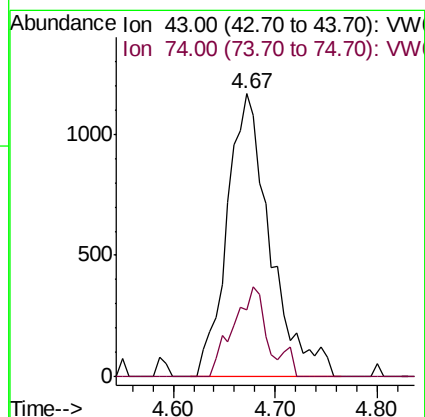
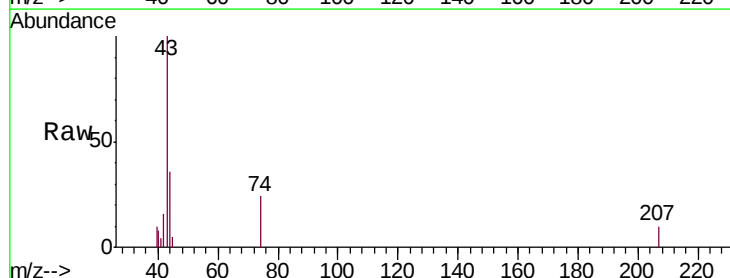
Acq: 27 Jul 2018 08:54

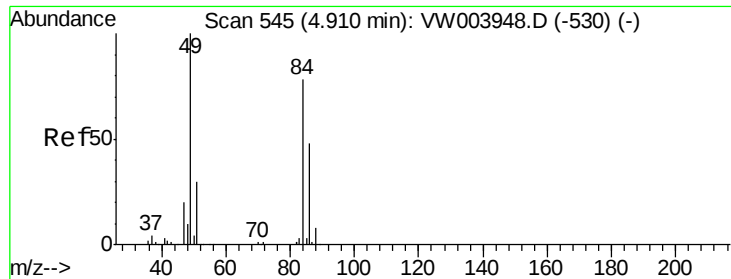
Tgt Ion: 43 Resp: 3421

Ion Ratio Lower Upper

43 100

74 23.6 17.7 26.5

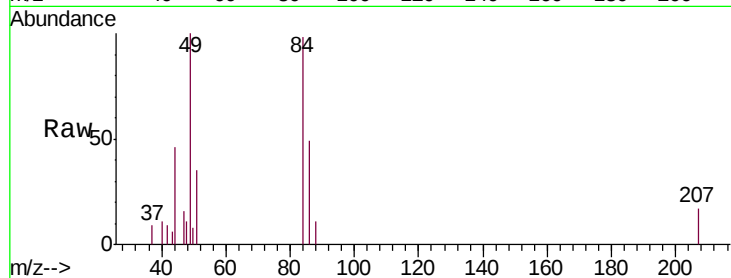




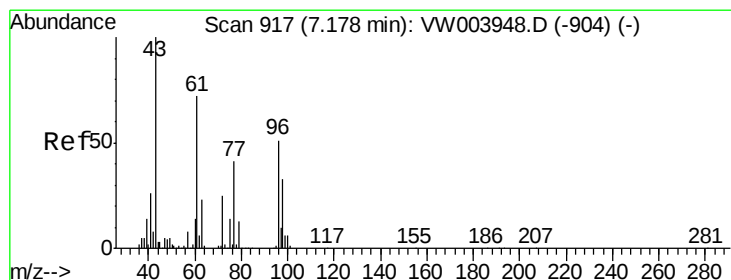
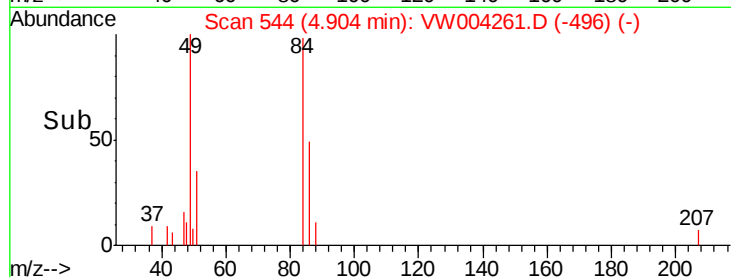
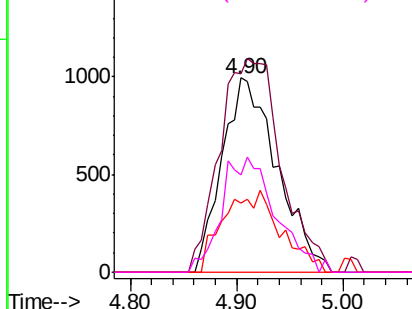
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.90 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: VW004261.D  
Acq: 27 Jul 2018 08:54

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 84 Resp: 3598  
Ion Ratio Lower Upper  
84 100  
49 102.5 102.9 154.3#  
51 35.6 30.9 46.3  
86 50.3 49.9 74.9

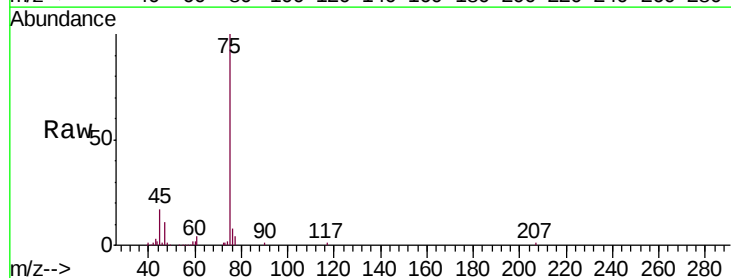


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

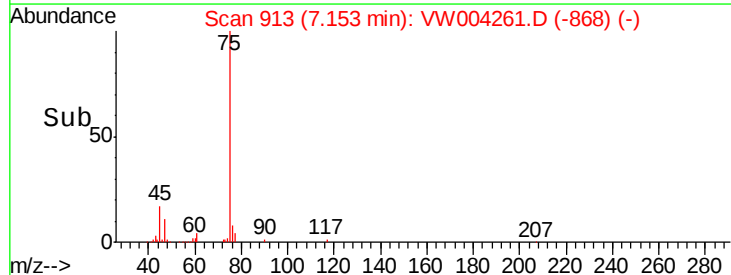
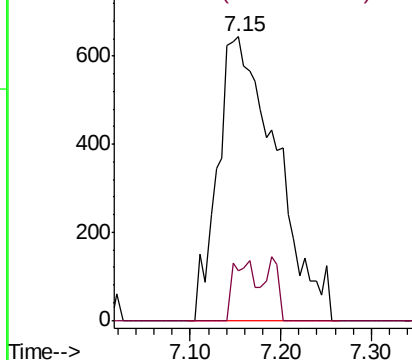


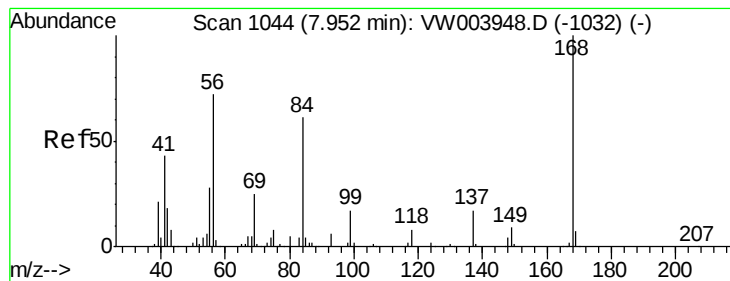
#25  
2-Butanone  
Concen: 2.93 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.02 min  
Lab File: VW004261.D  
Acq: 27 Jul 2018 08:54

Tgt Ion: 43 Resp: 2892  
Ion Ratio Lower Upper  
43 100  
72 17.4 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW





#31

Cyclohexane

Concen: 1.20 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

Instrument :  
MSVOA\_W  
ClientSampled :

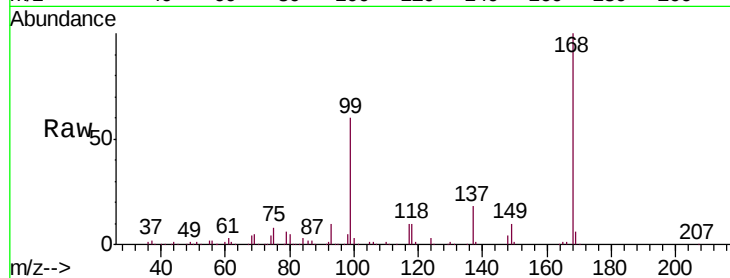
Tot Ion: 56 Resp: 6066

Ion Ratio Lower Upper

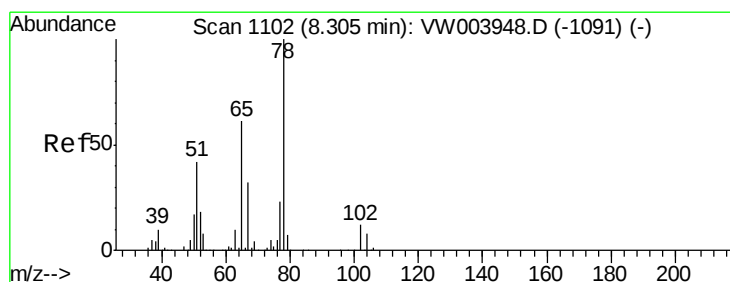
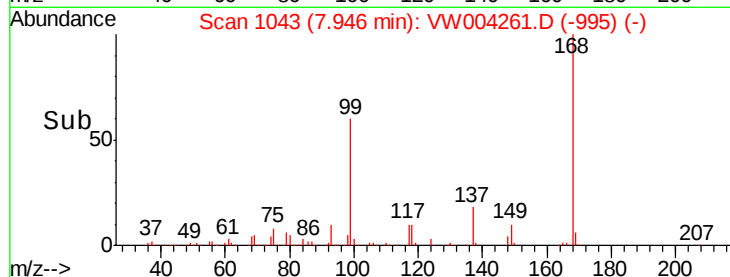
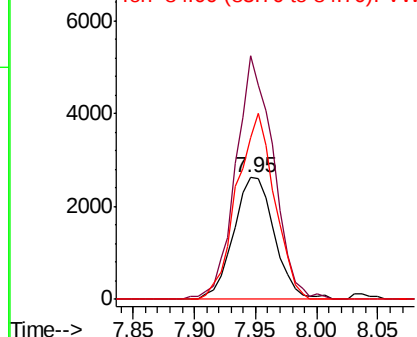
56 100

69 200.2 27.8 41.8#

84 132.8 67.2 100.8#



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: 51.69 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW004261.D

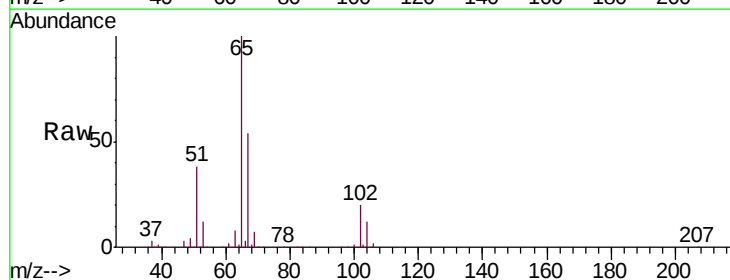
Acq: 27 Jul 2018 08:54

Tgt Ion: 65 Resp: 157618

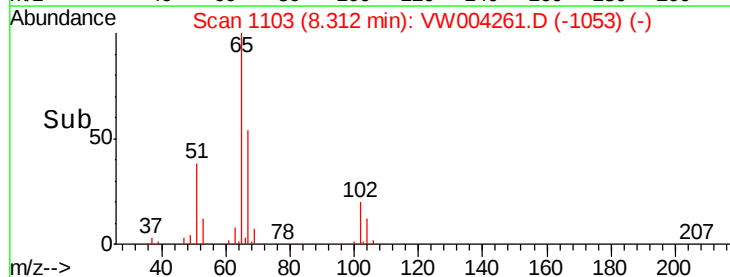
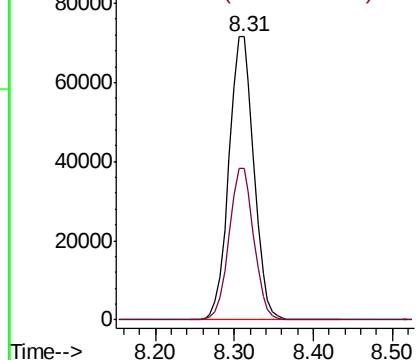
Ion Ratio Lower Upper

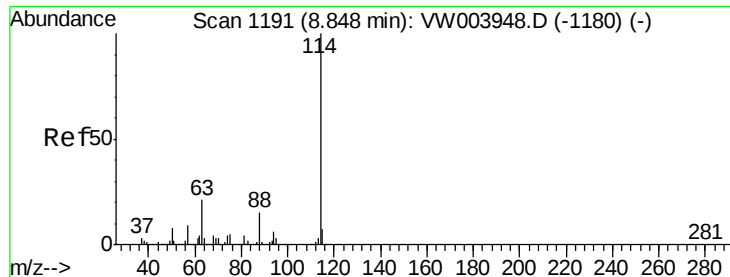
65 100

67 53.2 0.0 105.0



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

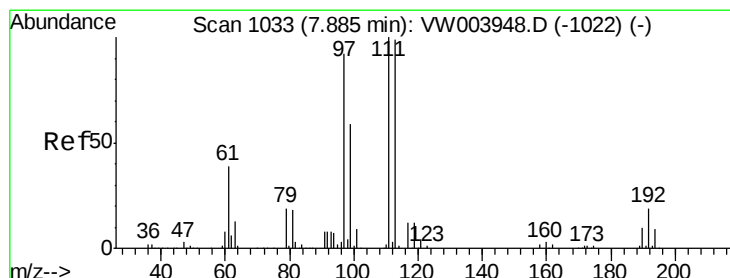
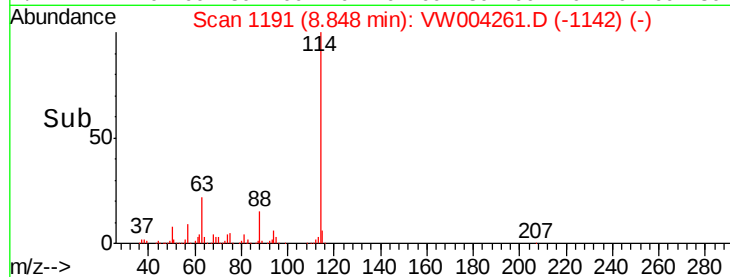
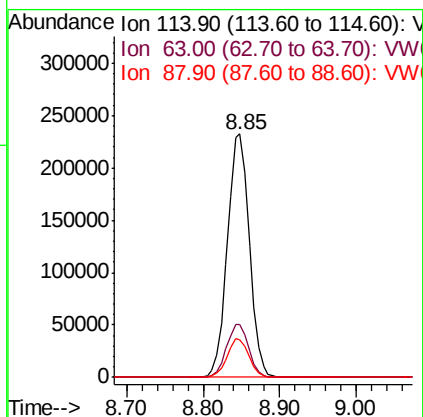
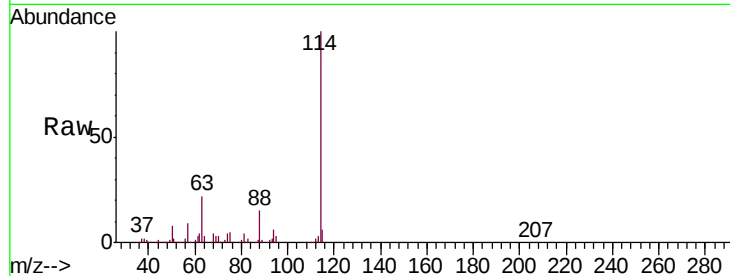




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004261.D  
 Acq: 27 Jul 2018 08:54

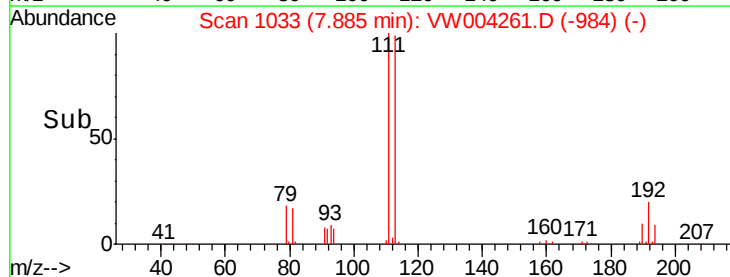
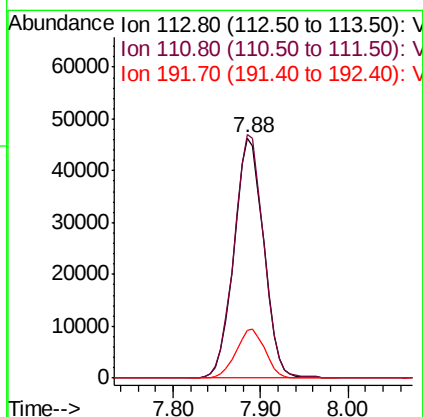
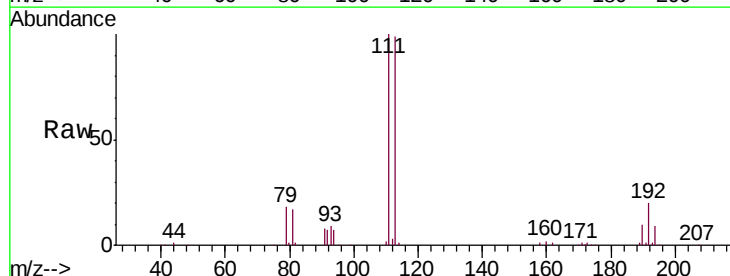
Instrument :  
 MSVOA\_W  
 ClientSampleId :

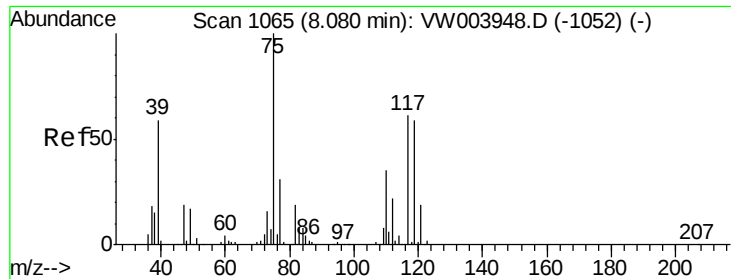
Tot Ion:114 Resp: 459939  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 42.8  
 88 15.5 0.0 30.4



#35  
 Dibromofluoromethane  
 Concen: 37.02 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004261.D  
 Acq: 27 Jul 2018 08:54

Tgt Ion:113 Resp: 109253  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 81.3 121.9  
 192 19.9 15.8 23.6





#36

1,1-Dichloropropene

Concen: 4.67 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

Instrument :

MSVOA\_W

ClientSampled :

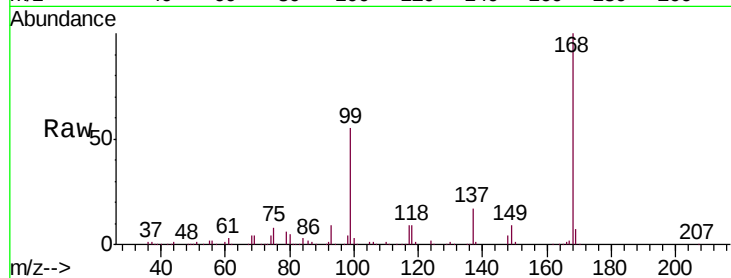
Tot Ion: 75 Resp: 22118

Ion Ratio Lower Upper

75 100

110 7.4 17.0 51.0#

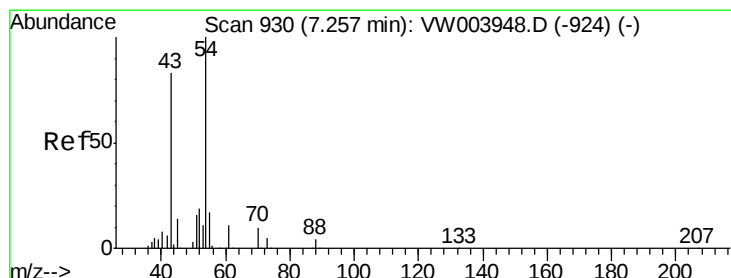
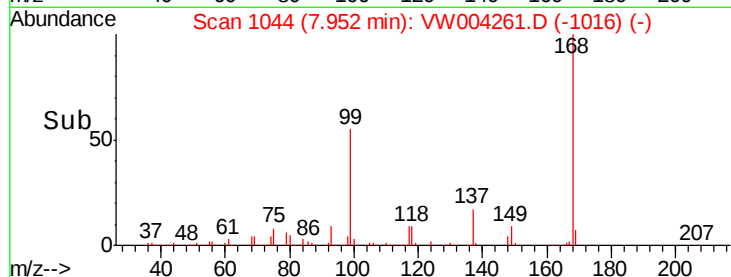
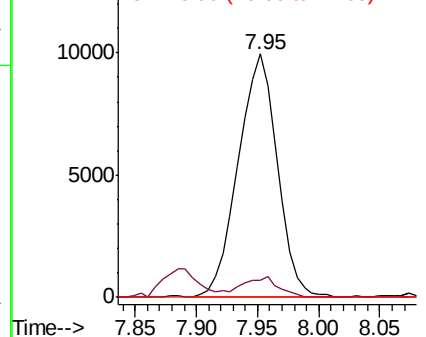
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 1.27 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.10 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

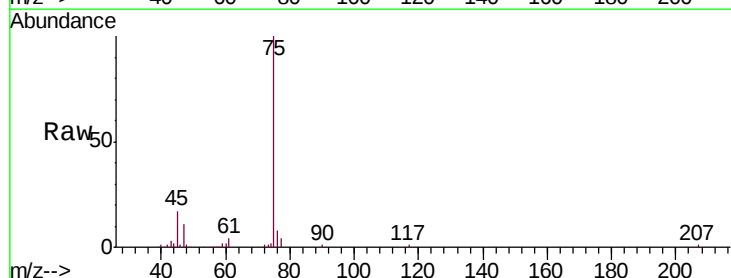
Tgt Ion: 43 Resp: 2892

Ion Ratio Lower Upper

43 100

61 67.9 10.7 16.1#

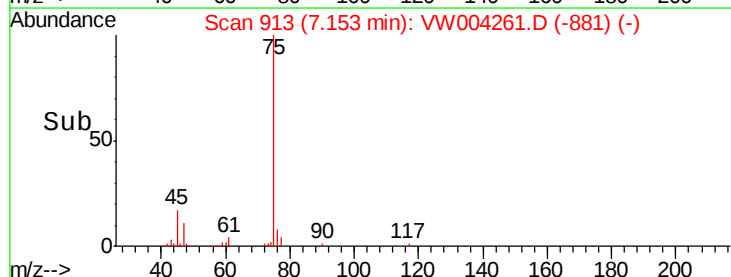
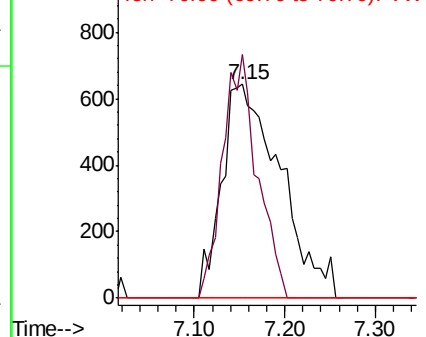
70 0.0 7.7 11.5#

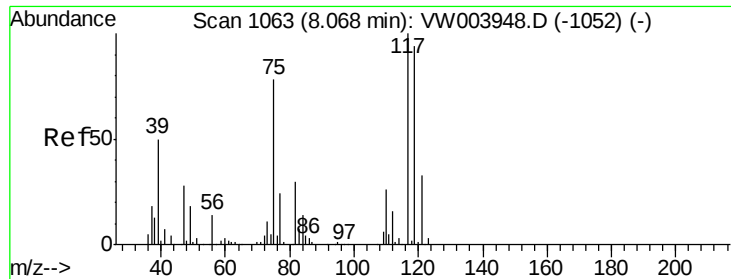


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 6.06 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

Instrument :  
MSVOA\_W  
ClientSampleId :

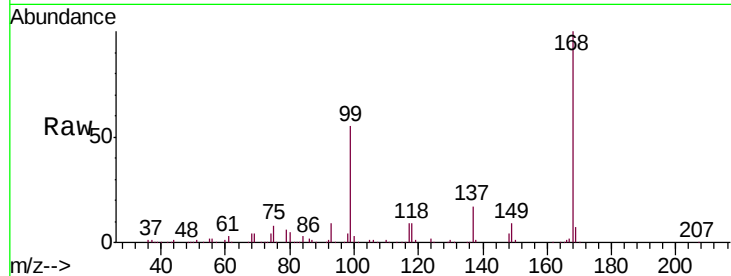
Tot Ion:117 Resp: 26806

Ion Ratio Lower Upper

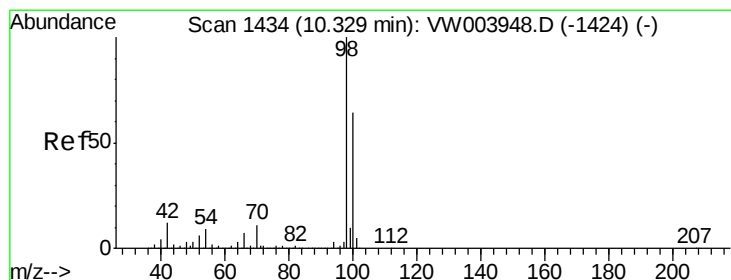
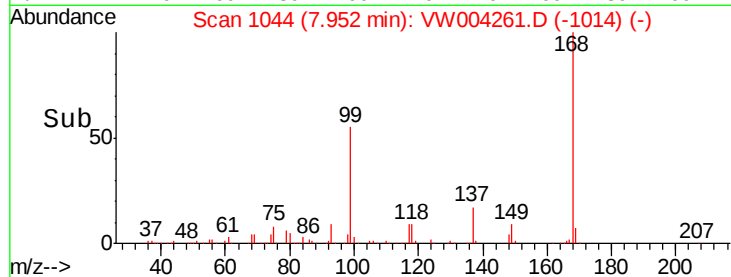
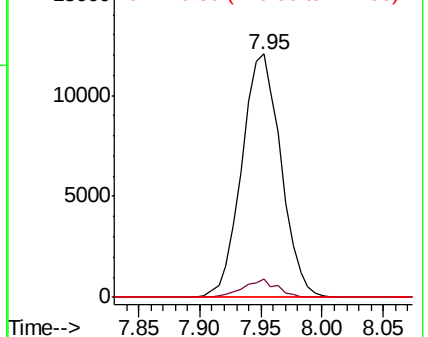
117 100

119 7.7 75.3 112.9#

121 0.0 26.0 39.0#



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: 36.05 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004261.D

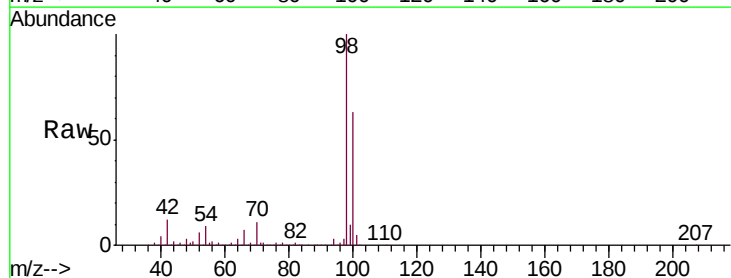
Acq: 27 Jul 2018 08:54

Tgt Ion: 98 Resp: 412760

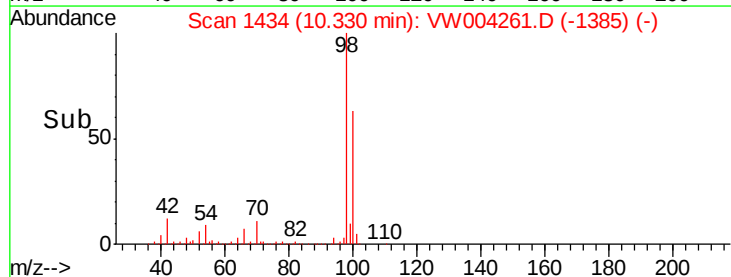
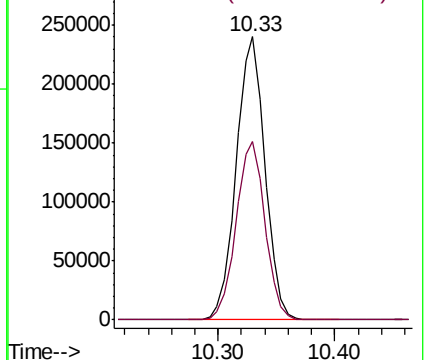
Ion Ratio Lower Upper

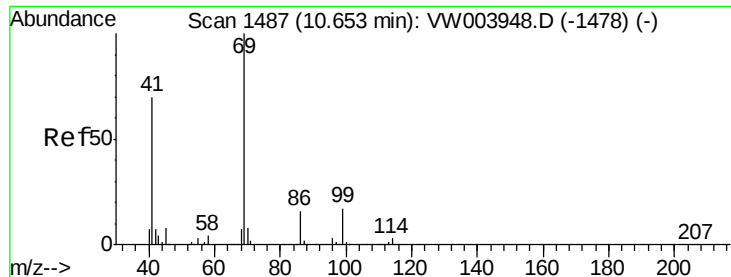
98 100

100 63.4 51.2 76.8



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

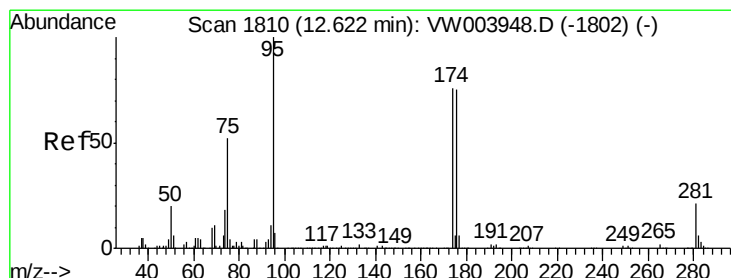
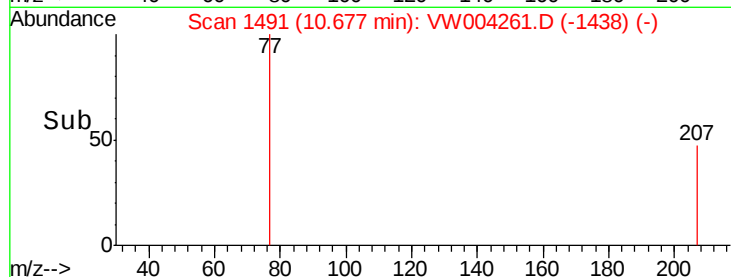
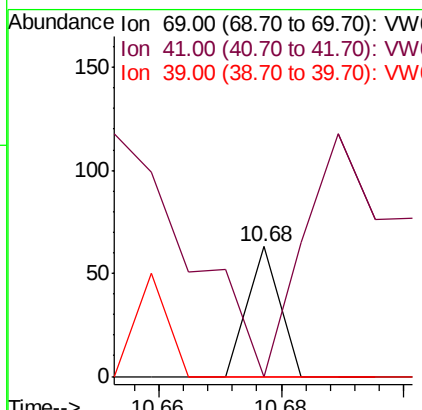
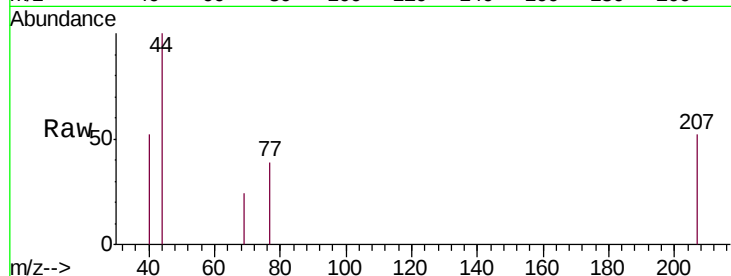




#56  
Ethyl methacrylate  
Concen: 2.95 ug/l  
RT: 10.68 min Scan# 1491  
Delta R.T. 0.03 min  
Lab File: VW004261.D  
Acq: 27 Jul 2018 08:54

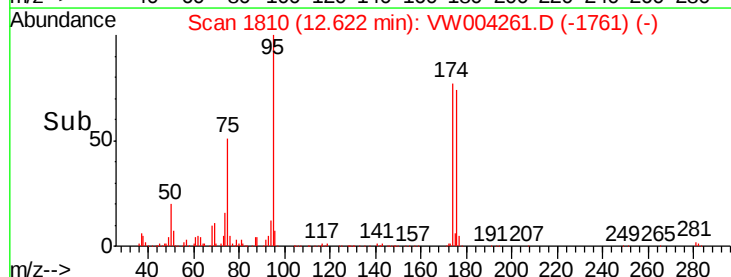
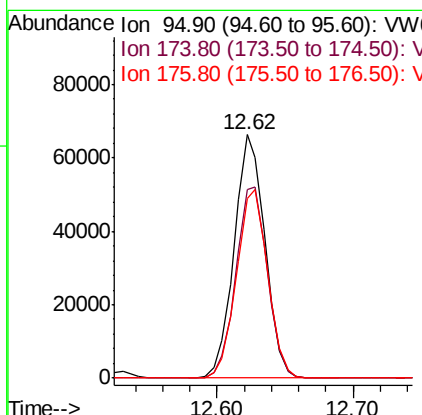
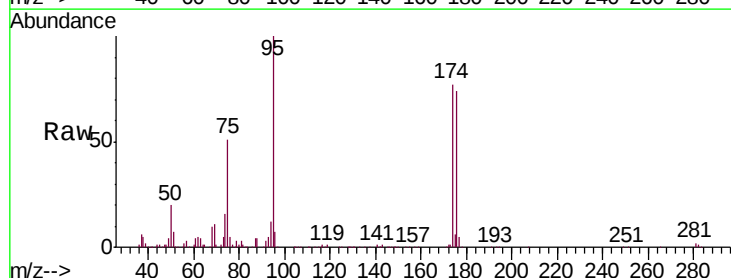
Instrument :  
MSVOA\_W  
ClientSampled :

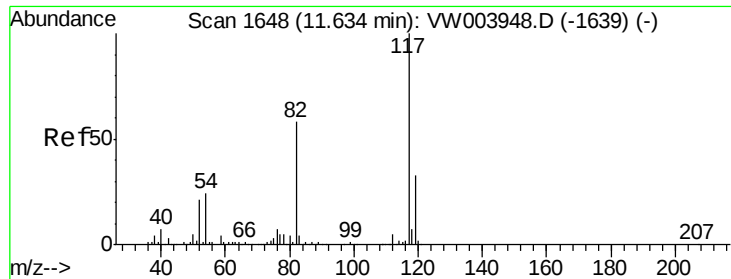
Tot Ion: 69 Resp: 23  
Ion Ratio Lower Upper  
69 100  
41 539.1 56.5 84.7#  
39 0.0 30.2 45.4#



#62  
4-Bromofluorobenzene  
Concen: 25.33 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VW004261.D  
Acq: 27 Jul 2018 08:54

Tgt Ion: 95 Resp: 104610  
Ion Ratio Lower Upper  
95 100  
174 80.4 0.0 160.2  
176 78.8 0.0 155.8

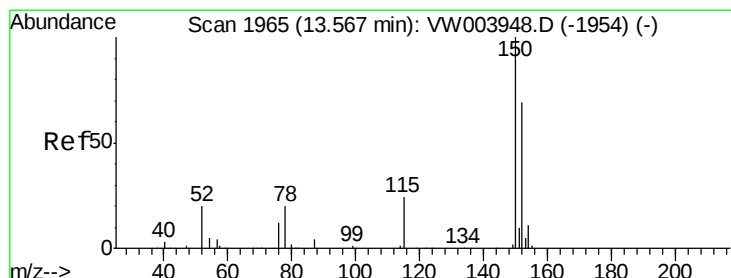
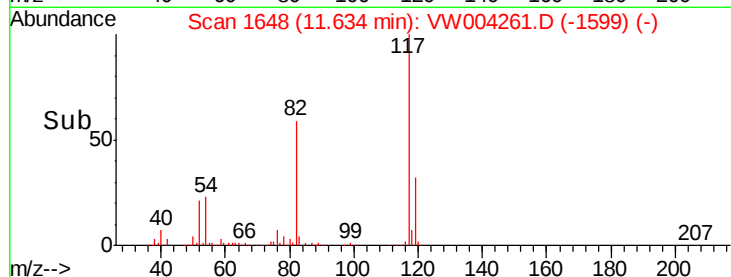
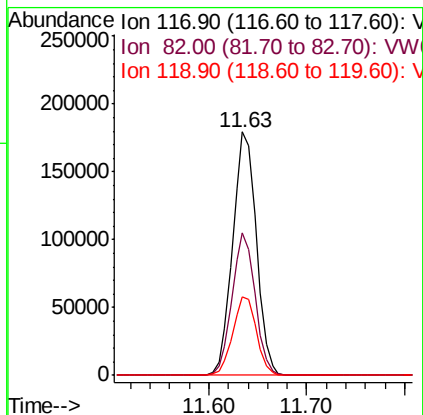
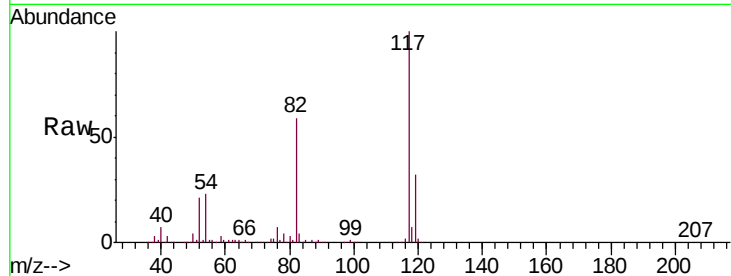




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004261.D  
Acq: 27 Jul 2018 08:54

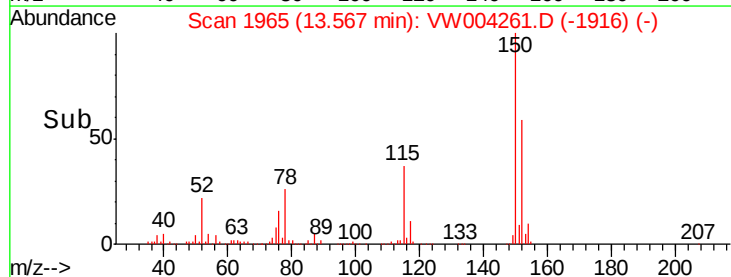
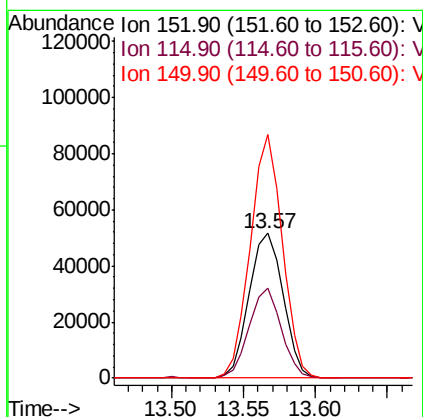
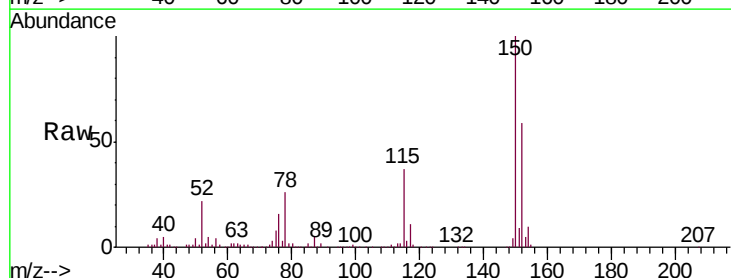
Instrument :  
MSVOA\_W  
ClientSampleId :

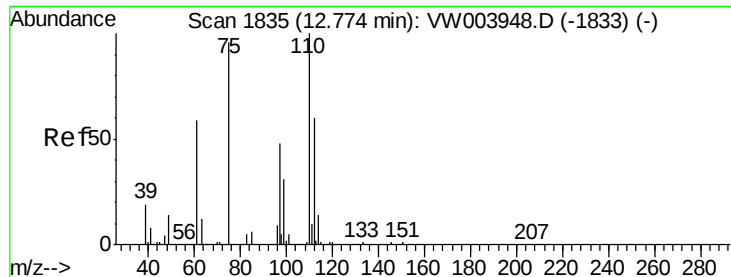
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 58.6  | 46.5  | 69.7  |
| 119     | 32.5  | 26.2  | 39.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW004261.D  
Acq: 27 Jul 2018 08:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.6  | 29.2  | 87.6  |
| 150     | 158.2 | 0.0   | 345.2 |





#76

1,2,3-Trichloropropane

Concen: 64.08 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

Instrument :

MSVOA\_W

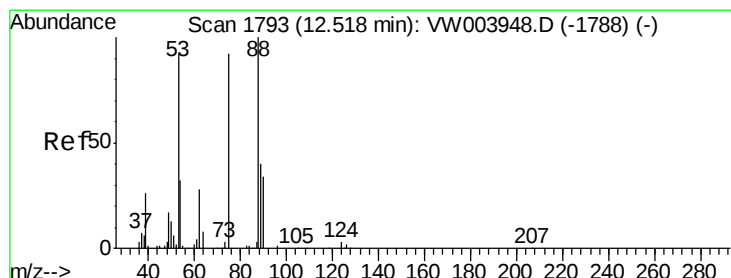
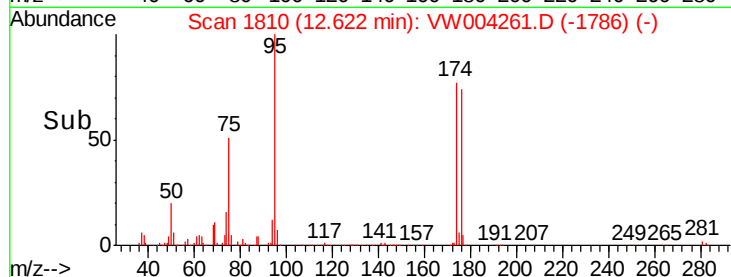
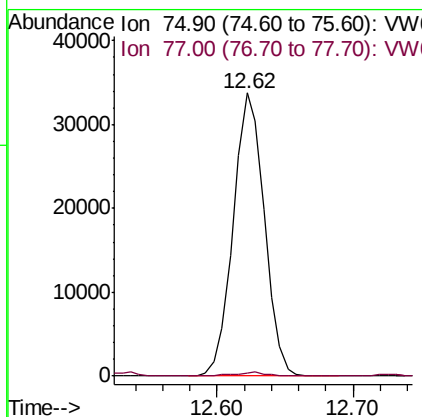
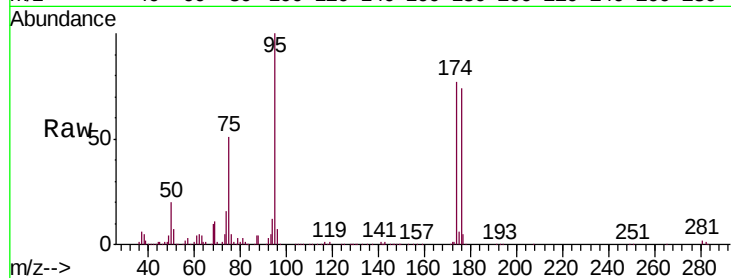
ClientSampleId :

Tot Ion: 75 Resp: 53659

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 141.74 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004261.D

Acq: 27 Jul 2018 08:54

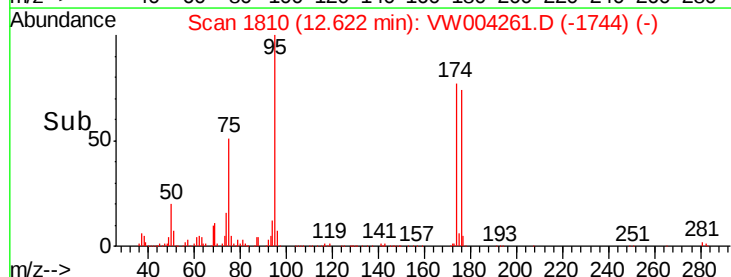
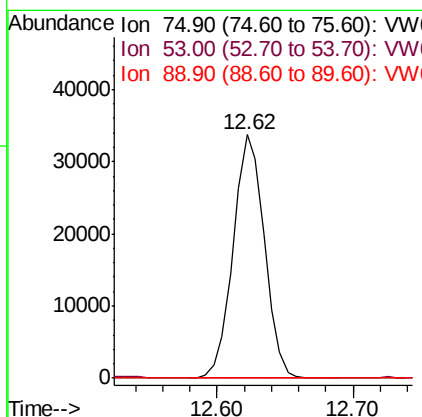
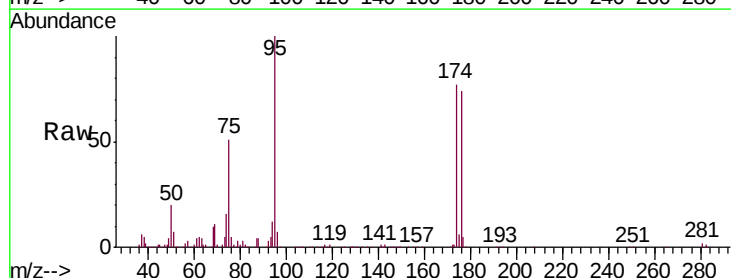
Tgt Ion: 75 Resp: 53659

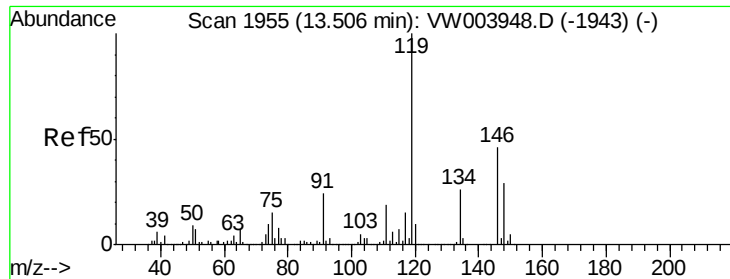
Ion Ratio Lower Upper

75 100

53 0.1 77.6 116.4#

89 0.0 36.6 54.8#

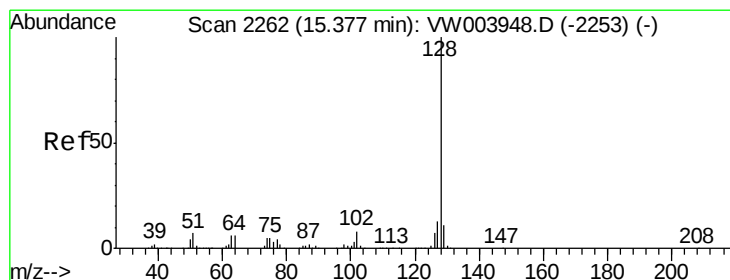
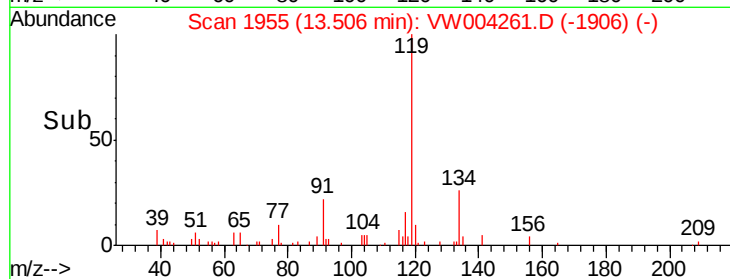
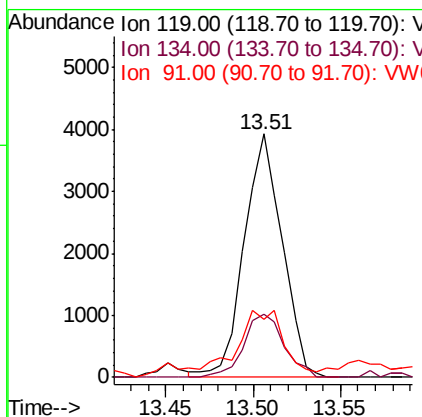
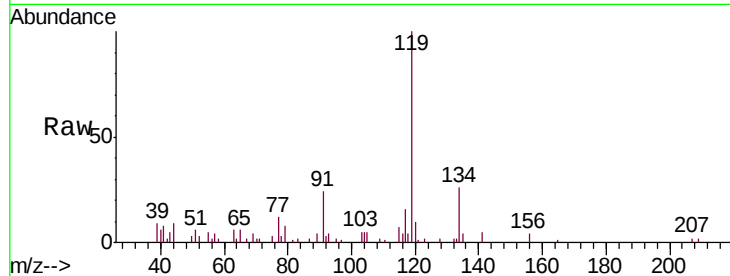




#86  
 p-Isopropyltoluene  
 Concen: 1.08 ug/l  
 RT: 13.51 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VW004261.D  
 Acq: 27 Jul 2018 08:54

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:119 Resp: 5940  
 Ion Ratio Lower Upper  
 119 100  
 134 27.5 13.0 38.9  
 91 27.9 11.8 35.3



#95  
 Naphthalene  
 Concen: 3.41 ug/l  
 RT: 15.38 min Scan# 2262  
 Delta R.T. 0.00 min  
 Lab File: VW004261.D  
 Acq: 27 Jul 2018 08:54

Tgt Ion:128 Resp: 11227  
 Ion Ratio Lower Upper  
 128 100  
 127 13.7 10.7 16.1  
 129 12.4 8.7 13.1

