

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112018\  
 Data File : VW006958.D  
 Acq On : 19 Nov 2018 22:16  
 Operator : SY/AP  
 Sample : J5981-05RE  
 Misc : 3.28G/5ML/MSVOA W/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-03(8-10)RE

Quant Time: Nov 20 05:59:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 17 04:45:18 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 77050    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 116853   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 85151    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 26369    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 39905    | 46.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.94%  |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 34614    | 50.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.18% |      |
| 50) Toluene-d8            | 10.32  | 98  | 121920   | 41.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 82.92%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 35255    | 30.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 61.50%  |      |

## Target Compounds

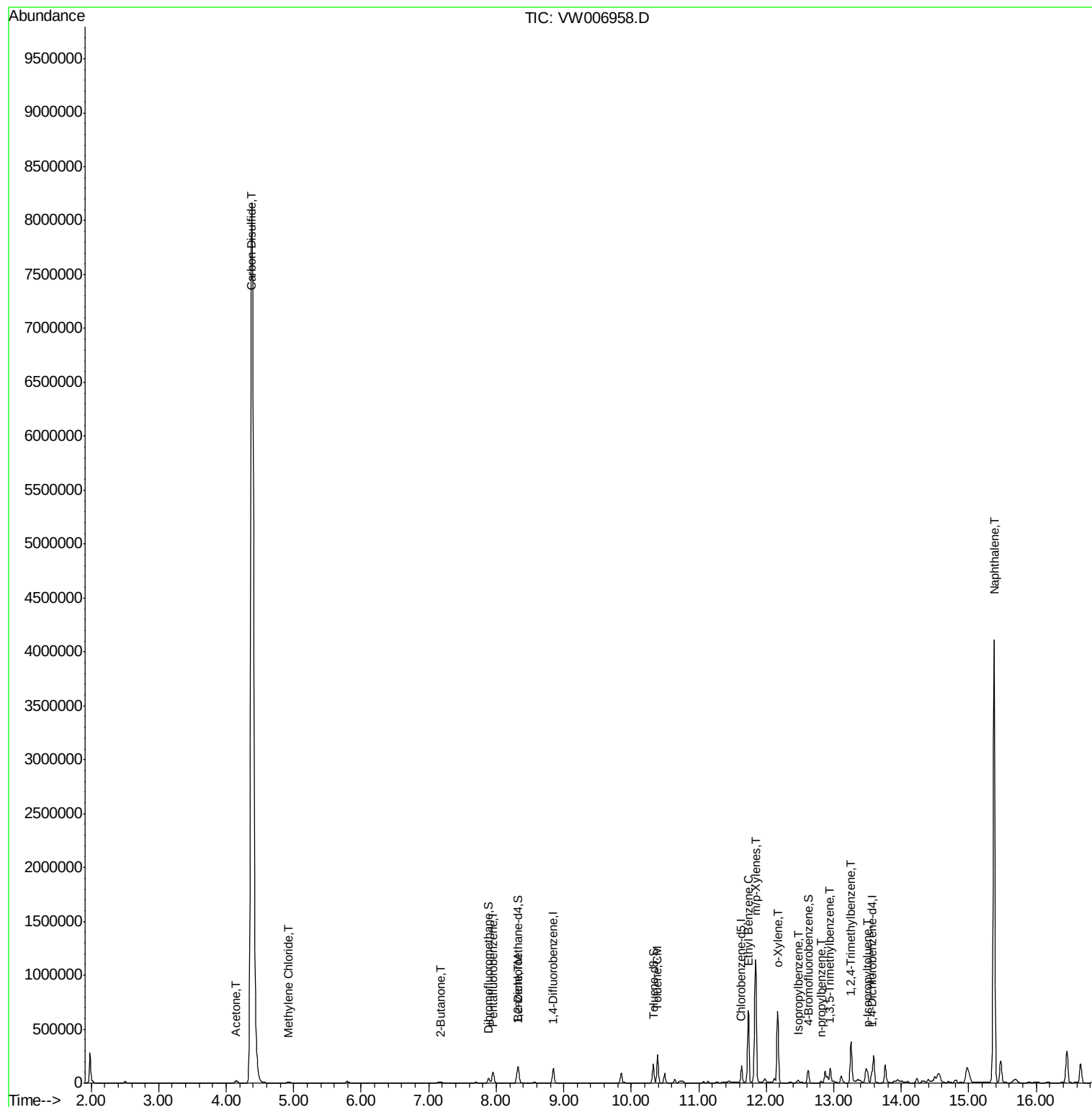
|                            |       |     |          |          |        | Qvalue |
|----------------------------|-------|-----|----------|----------|--------|--------|
| 16) Acetone                | 4.15  | 43  | 44006    | 335.048  | ug/l   | 97     |
| 17) Carbon Disulfide       | 4.38  | 76  | 20046401 | 8926.291 | ug/l   | 97     |
| 20) Methylene Chloride     | 4.93  | 84  | 7959     | 5.817    | ug/l # | 91     |
| 25) 2-Butanone             | 7.18  | 43  | 17340    | 79.494   | ug/l   | 99     |
| 40) Benzene                | 8.32  | 78  | 126987   | 40.362   | ug/l   | 97     |
| 52) Toluene                | 10.39 | 92  | 110556   | 52.525   | ug/l   | 98     |
| 67) Ethyl Benzene          | 11.73 | 91  | 475812   | 146.781  | ug/l   | 98     |
| 68) m/p-Xylenes            | 11.84 | 106 | 342853   | 271.603  | ug/l   | 100    |
| 69) o-Xylene               | 12.17 | 106 | 181454   | 151.453  | ug/l   | 99     |
| 73) Isopropylbenzene       | 12.47 | 105 | 15268    | 7.311    | ug/l   | 99     |
| 78) n-propylbenzene        | 12.81 | 91  | 12383    | 4.935    | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 12.95 | 105 | 68544    | 38.119   | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.26 | 105 | 213781   | 118.343  | ug/l   | 100    |
| 86) p-Isopropyltoluene     | 13.50 | 119 | 46603    | 24.473   | ug/l   | 95     |
| 95) Naphthalene            | 15.38 | 128 | 3739326  | 3811.382 | ug/l   | 99     |

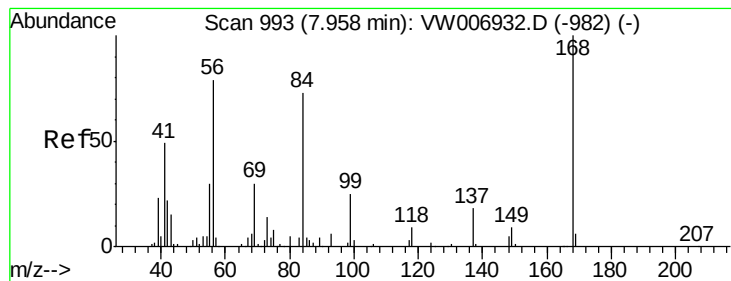
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W111718S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 17 04:45:18 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Instrument :

MSVOA\_W

ClientSampleId :

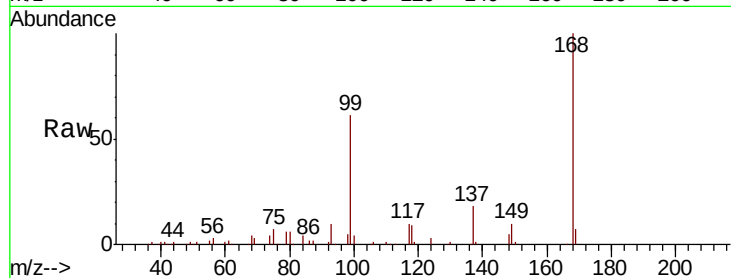
DTW-03(8-10)RE

Tot Ion:168 Resp: 77050

Ion Ratio Lower Upper

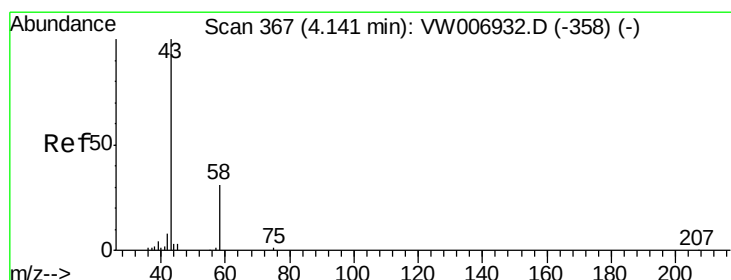
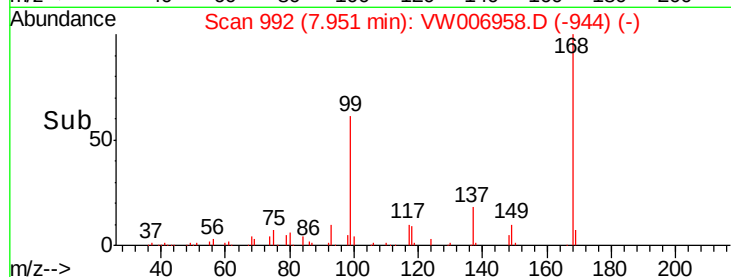
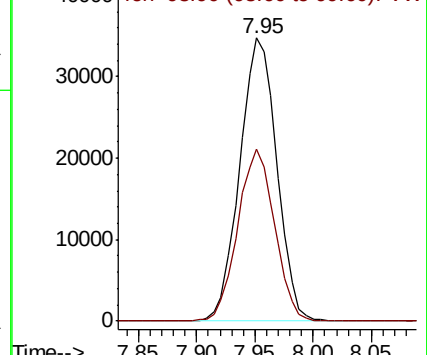
168 100

99 60.6 49.3 73.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 335.048 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW006958.D

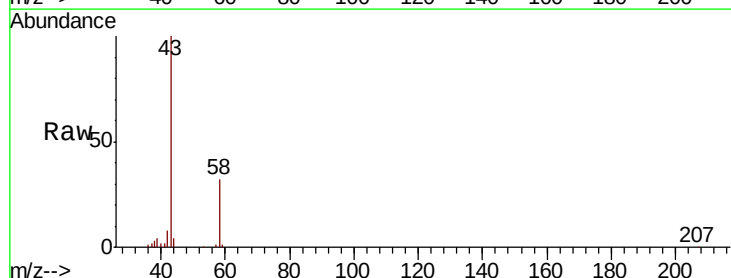
Acq: 19 Nov 2018 22:16

Tgt Ion: 43 Resp: 44006

Ion Ratio Lower Upper

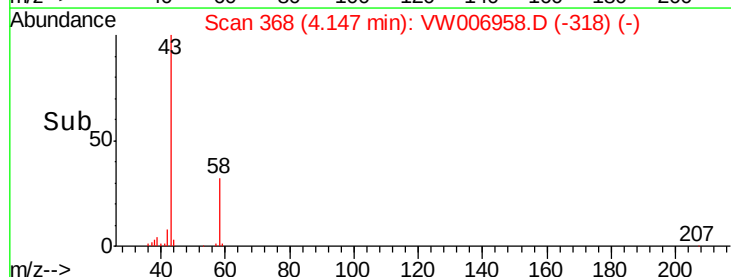
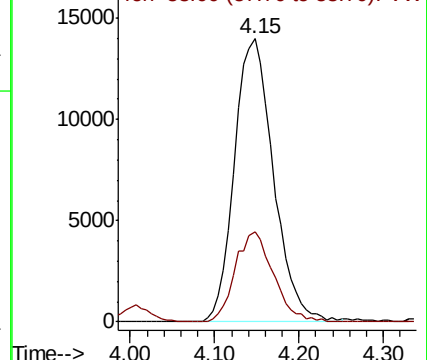
43 100

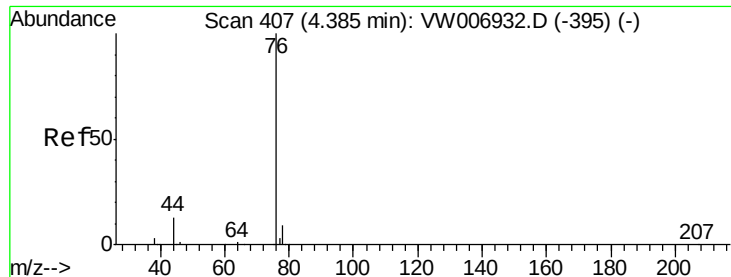
58 32.0 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 8926.291 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Instrument :

MSVOA\_W

ClientSampleId :

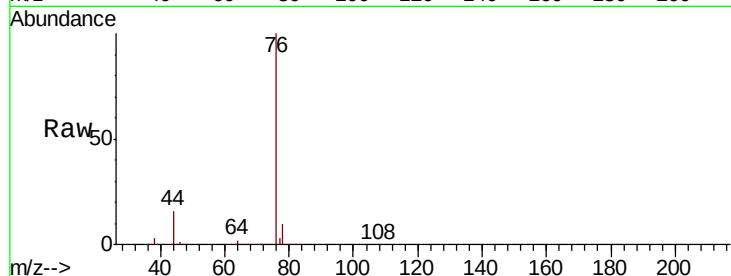
DTW-03(8-10)RE

Tot Ion: 76 Resp: 20046401

Ion Ratio Lower Upper

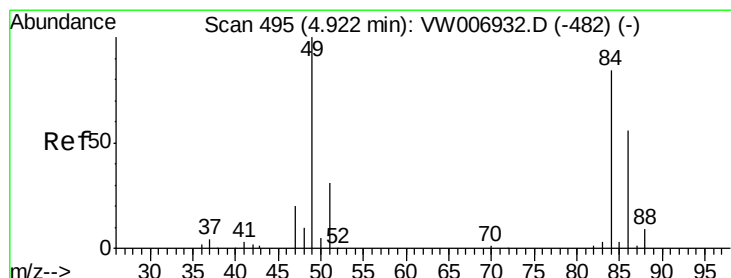
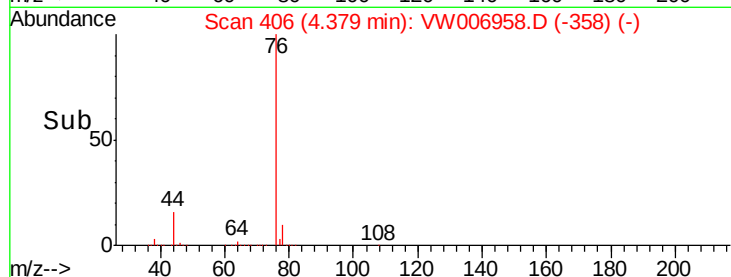
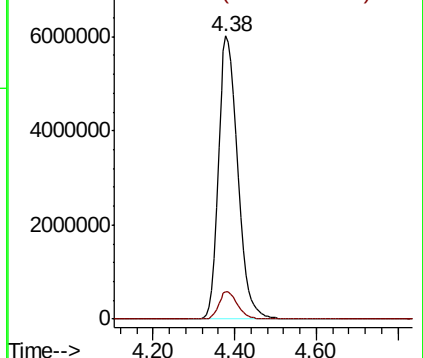
76 100

78 9.9 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 5.817 ug/l

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Tgt Ion: 84 Resp: 7959

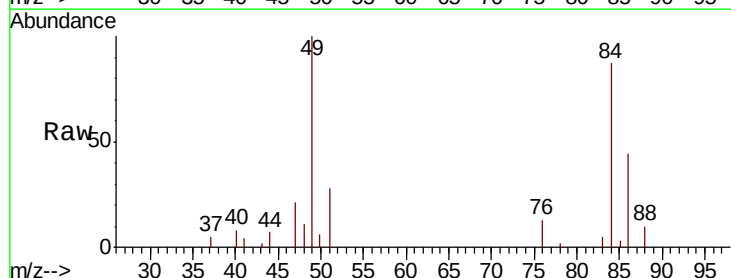
Ion Ratio Lower Upper

84 100

49 115.3 95.4 143.2

51 32.2 29.5 44.3

86 50.5 53.4 80.2#

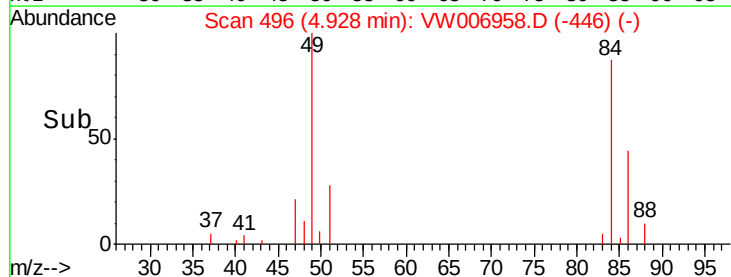
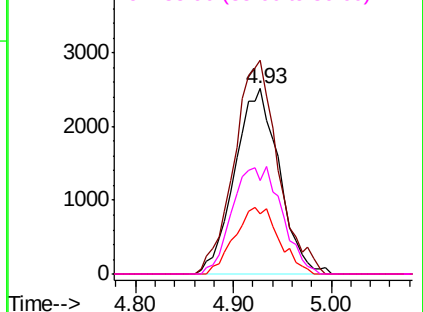


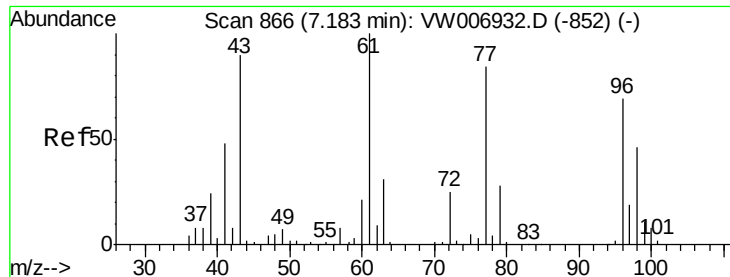
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 79.494 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.01 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Instrument :

MSVOA\_W

ClientSampleId :

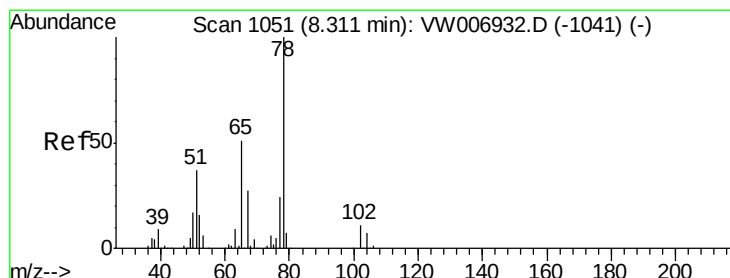
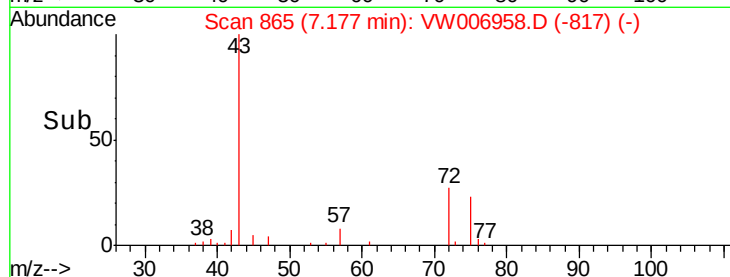
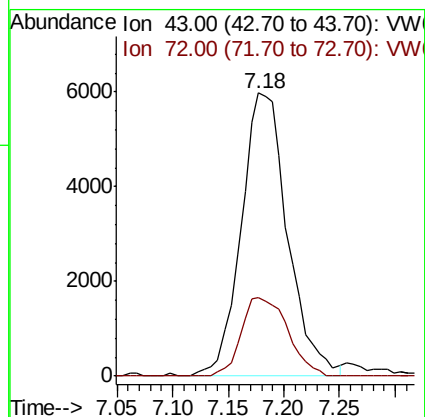
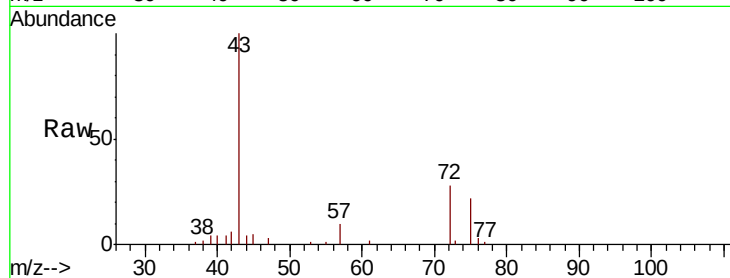
DTW-03(8-10)RE

Tot Ion: 43 Resp: 17340

Ion Ratio Lower Upper

43 100

72 28.0 22.1 33.1



#33

1,2-Dichloroethane-d4

Concen: 46.472 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW006958.D

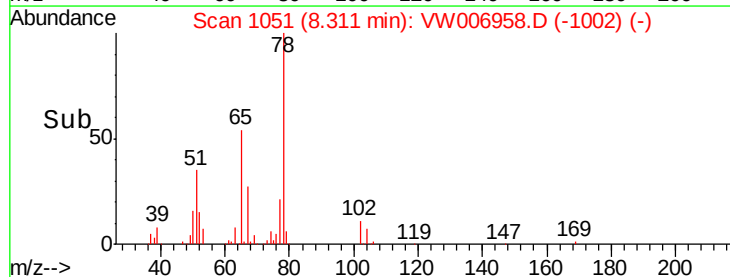
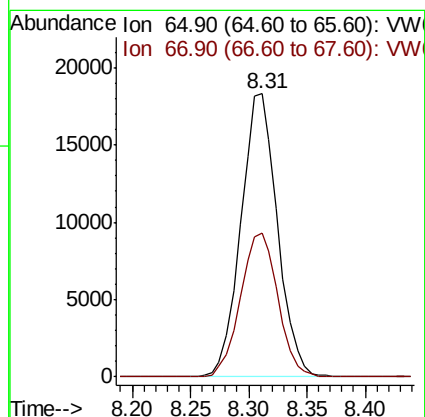
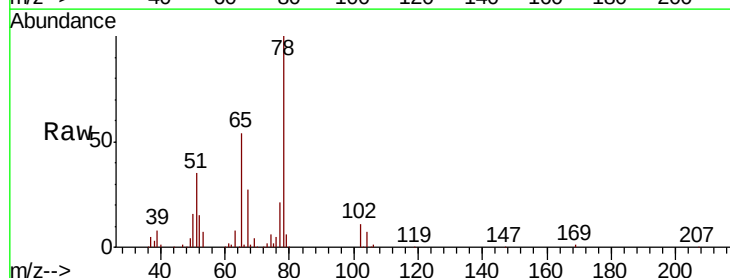
Acq: 19 Nov 2018 22:16

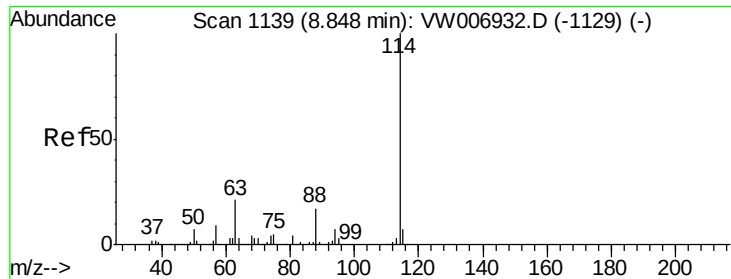
Tgt Ion: 65 Resp: 39905

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.0

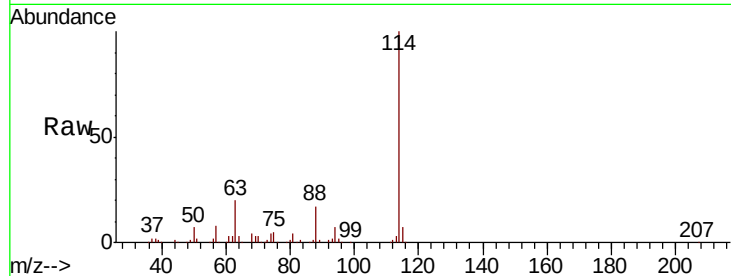




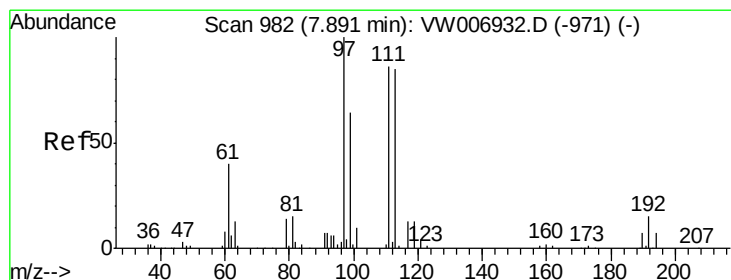
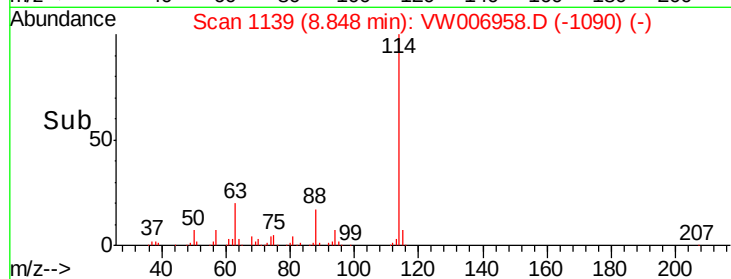
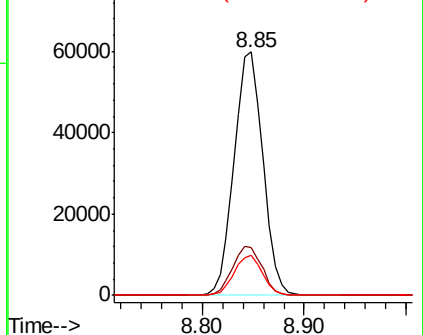
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW006958.D  
 Acq: 19 Nov 2018 22:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-03(8-10)RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.8  | 0.0   | 42.2  |
| 88      | 16.7  | 0.0   | 33.4  |

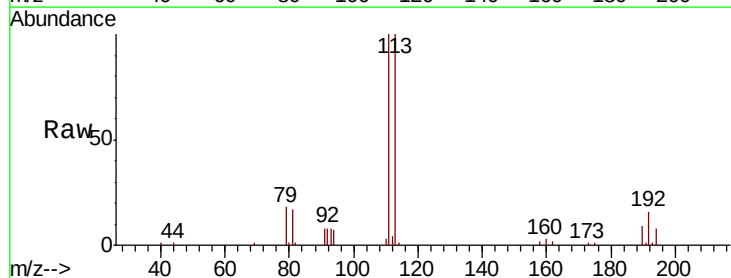


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

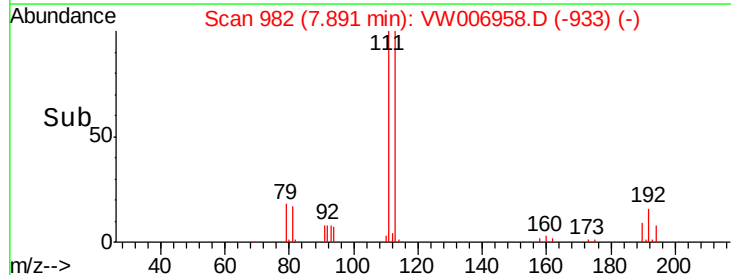
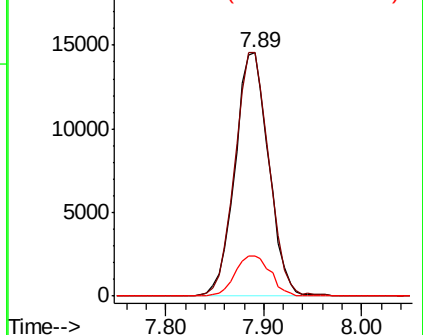


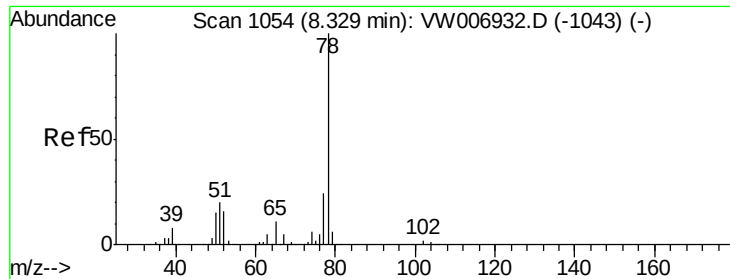
#35  
 Dibromofluoromethane  
 Concen: 50.590 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VW006958.D  
 Acq: 19 Nov 2018 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.3 | 81.7  | 122.5 |
| 192     | 17.5  | 13.9  | 20.9  |



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





#40

Benzene

Concen: 40.362 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Instrument :

MSVOA\_W

ClientSampleId :

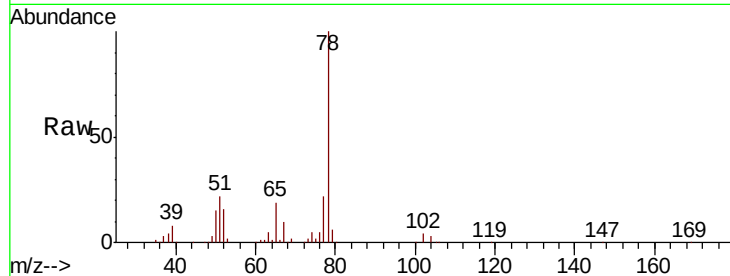
DTW-03(8-10)RE

Tot Ion: 78 Resp: 126987

Ion Ratio Lower Upper

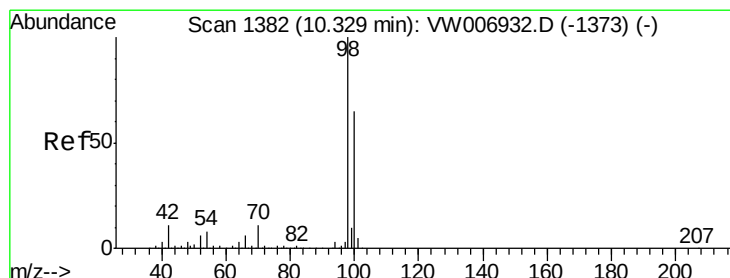
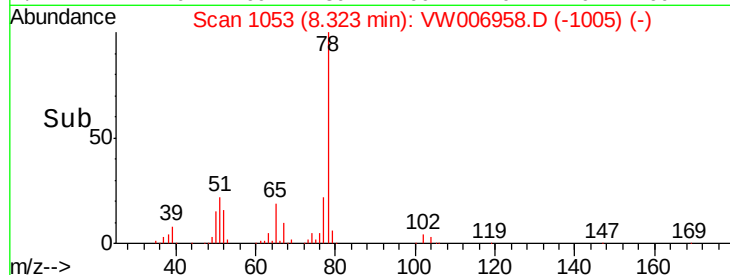
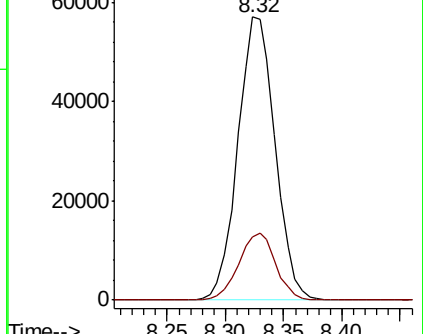
78 100

77 22.4 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW



#50

Toluene-d8

Concen: 41.465 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VW006958.D

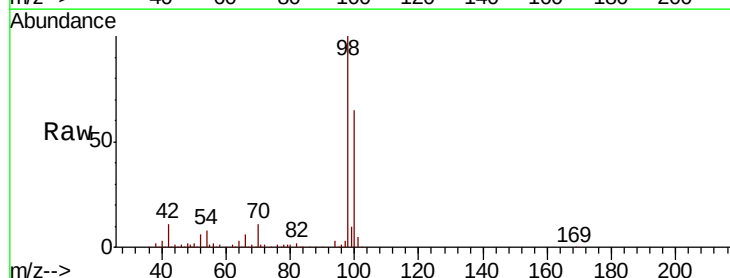
Acq: 19 Nov 2018 22:16

Tgt Ion: 98 Resp: 121920

Ion Ratio Lower Upper

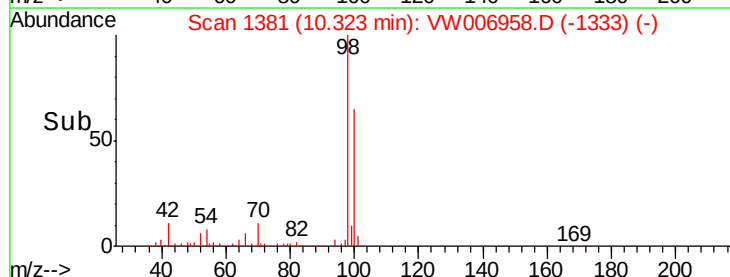
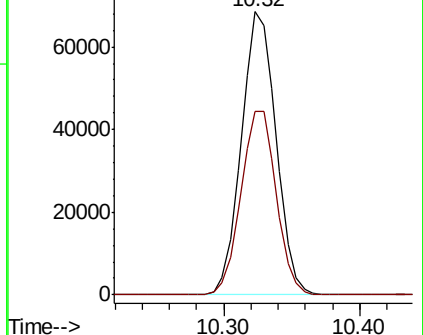
98 100

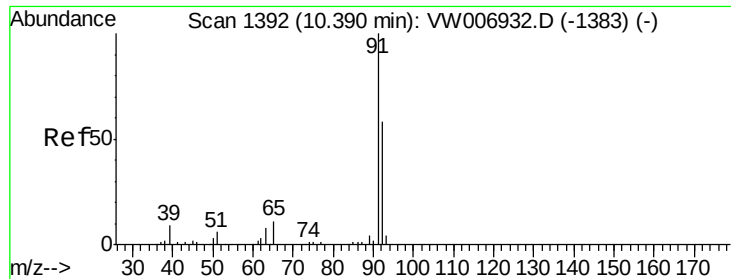
100 66.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 52.525 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Instrument :

MSVOA\_W

ClientSampleId :

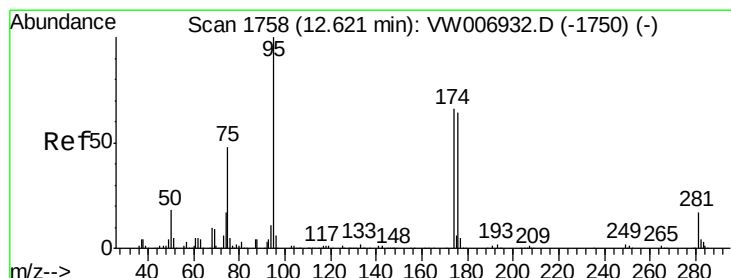
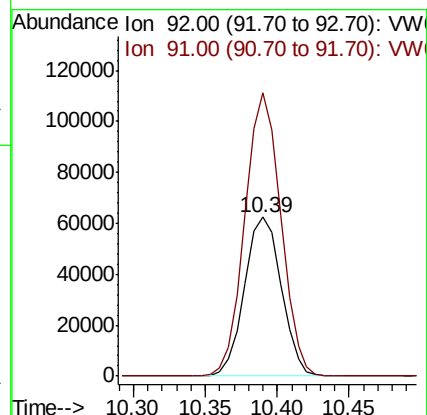
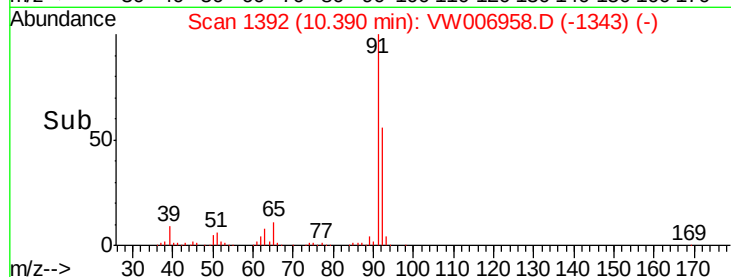
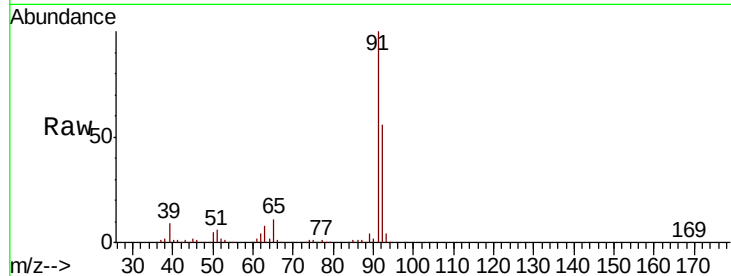
DTW-03(8-10)RE

Tot Ion: 92 Resp: 110556

Ion Ratio Lower Upper

92 100

91 174.3 137.3 205.9



#62

4-Bromofluorobenzene

Concen: 30.750 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

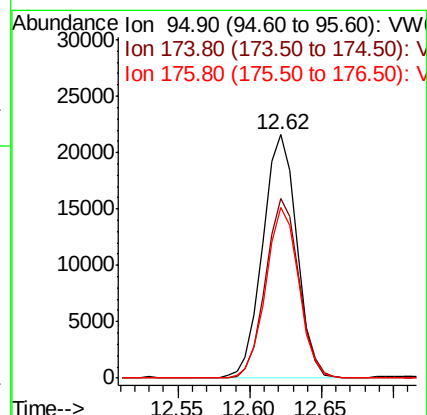
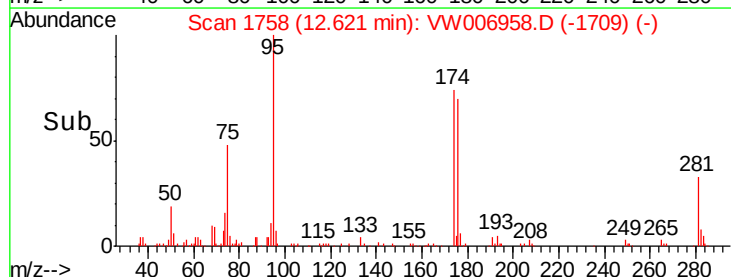
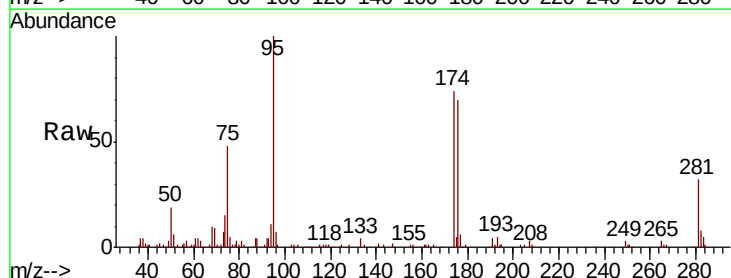
Tgt Ion: 95 Resp: 35255

Ion Ratio Lower Upper

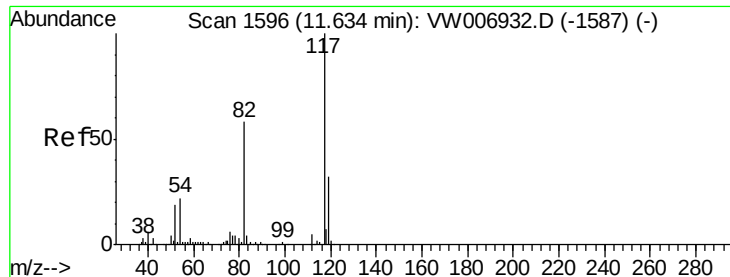
95 100

174 72.4 0.0 138.4

176 68.1 0.0 133.4



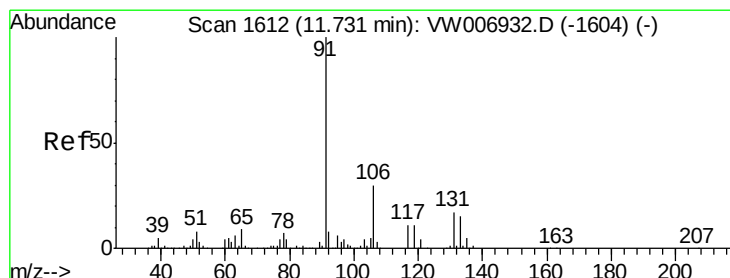
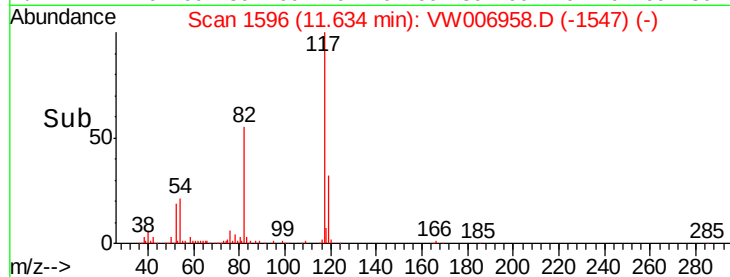
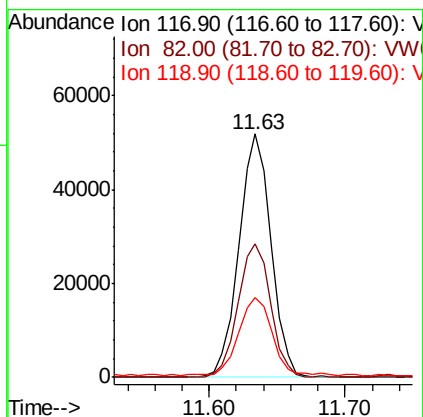
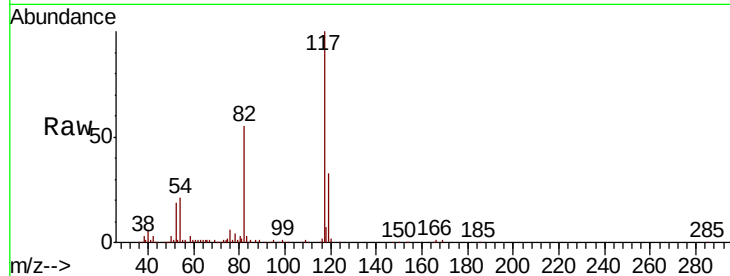




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006958.D  
Acq: 19 Nov 2018 22:16

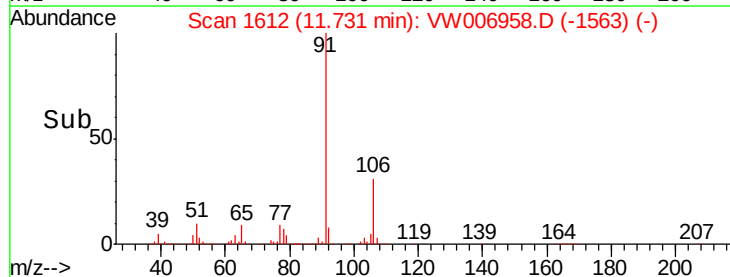
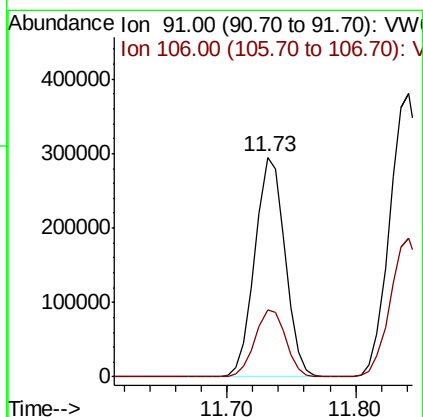
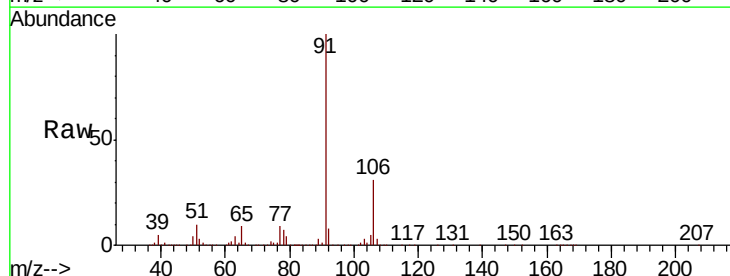
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-03(8-10)RE

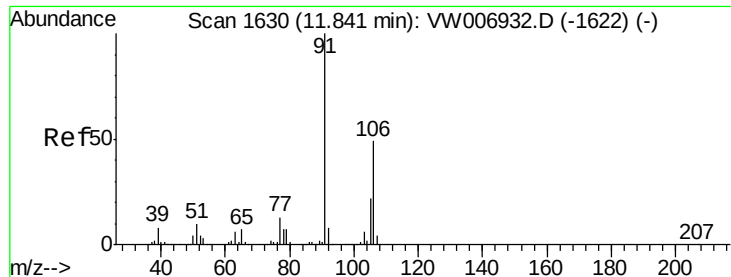
Tot Ion:117 Resp: 85151  
Ion Ratio Lower Upper  
117 100  
82 54.9 46.2 69.2  
119 32.0 25.5 38.3



#67  
Ethyl Benzene  
Concen: 146.781 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW006958.D  
Acq: 19 Nov 2018 22:16

Tgt Ion: 91 Resp: 475812  
Ion Ratio Lower Upper  
91 100  
106 30.8 24.0 36.0

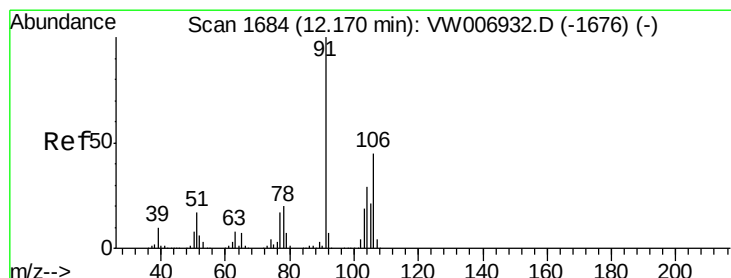
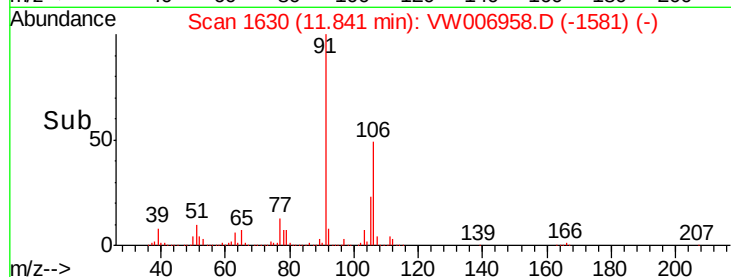
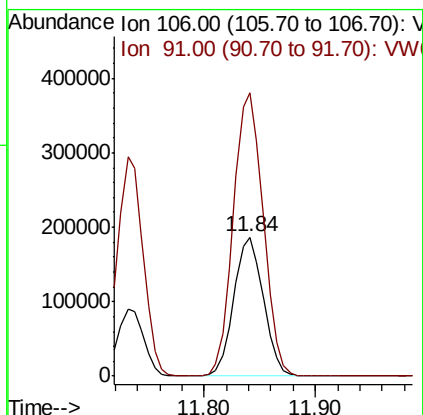
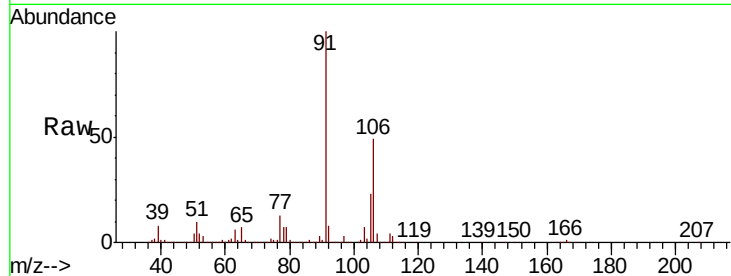




#68  
m/p-Xylenes  
Concen: 271.603 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW006958.D  
Acq: 19 Nov 2018 22:16

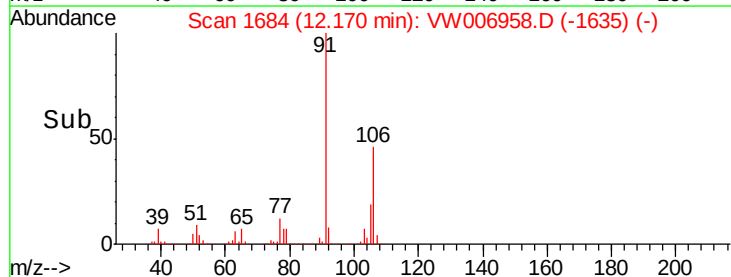
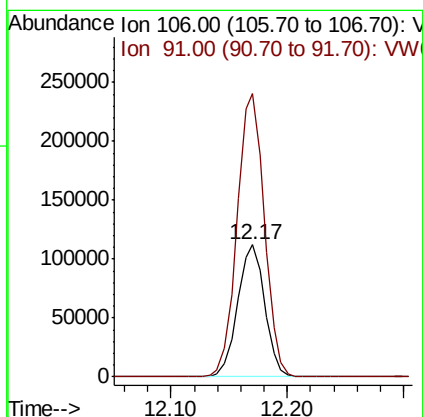
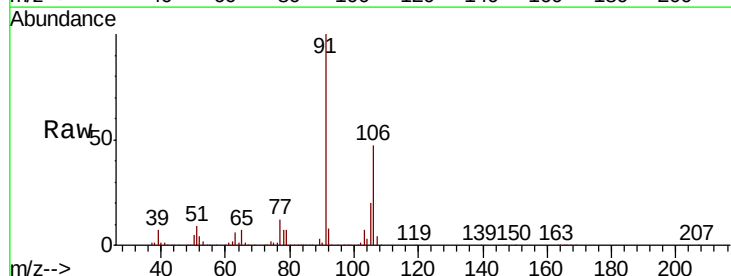
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-03(8-10)RE

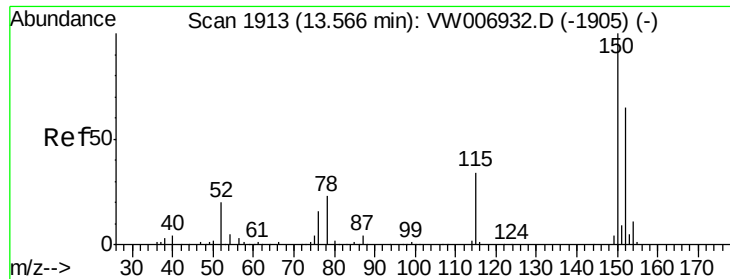
Tot Ion:106 Resp: 342853  
Ion Ratio Lower Upper  
106 100  
91 205.9 165.0 247.4



#69  
o-Xylene  
Concen: 151.453 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW006958.D  
Acq: 19 Nov 2018 22:16

Tgt Ion:106 Resp: 181454  
Ion Ratio Lower Upper  
106 100  
91 216.5 109.2 327.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.01 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Instrument :

MSVOA\_W

ClientSampleId :

DTW-03(8-10)RE

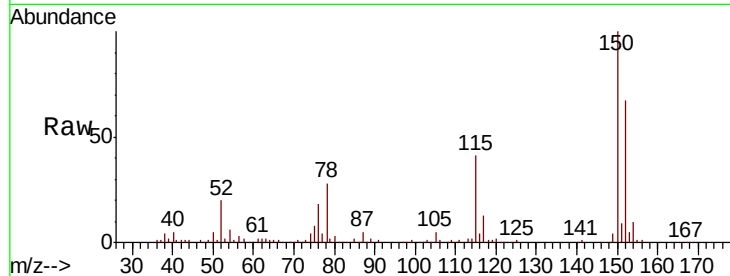
Tot Ion:152 Resp: 26369

Ion Ratio Lower Upper

152 100

115 87.1 31.6 94.7

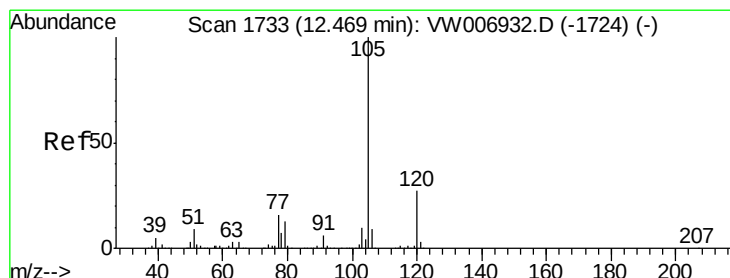
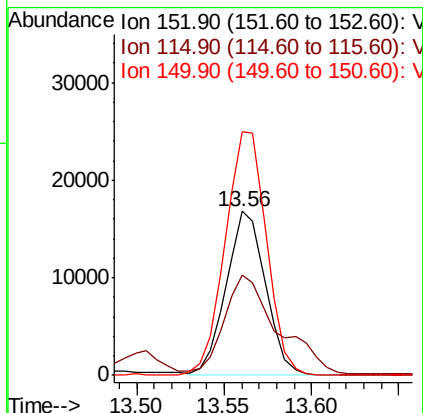
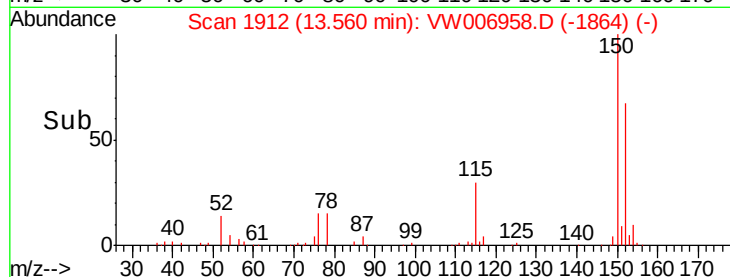
150 155.1 0.0 350.0



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



#73

Isopropylbenzene

Concen: 7.311 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW006958.D

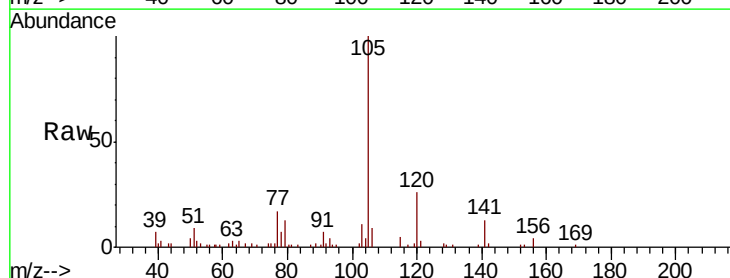
Acq: 19 Nov 2018 22:16

Tgt Ion:105 Resp: 15268

Ion Ratio Lower Upper

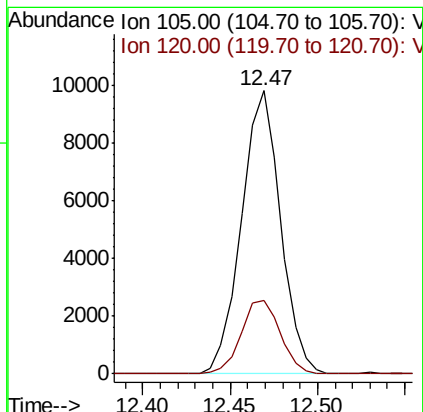
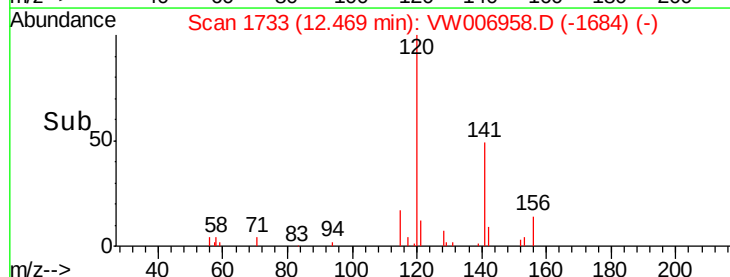
105 100

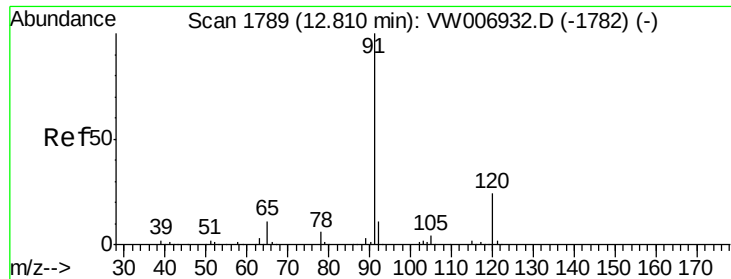
120 26.1 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 4.935 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW006958.D

Acq: 19 Nov 2018 22:16

Instrument :

MSVOA\_W

ClientSampleId :

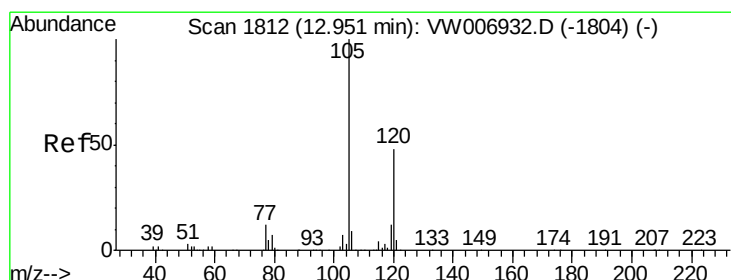
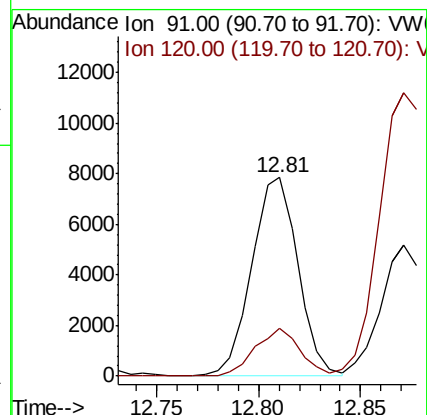
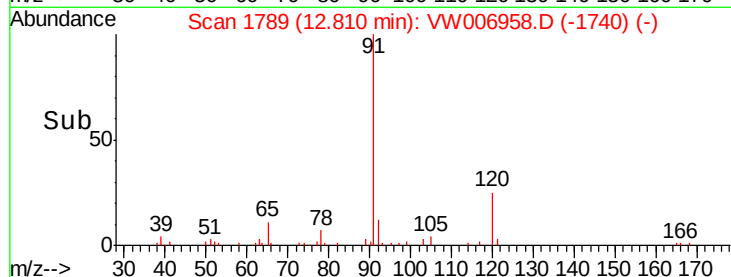
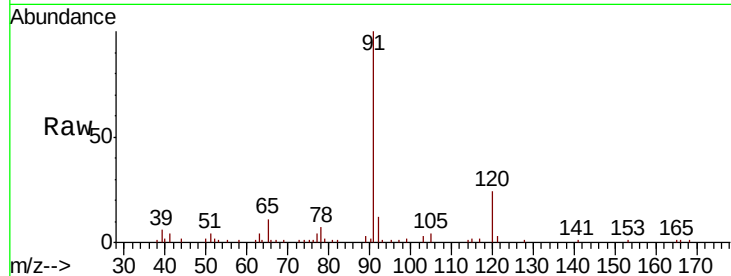
DTW-03(8-10)RE

Tot Ion: 91 Resp: 12383

Ion Ratio Lower Upper

91 100

120 23.4 11.5 34.5



#80

1,3,5-Trimethylbenzene

Concen: 38.119 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW006958.D

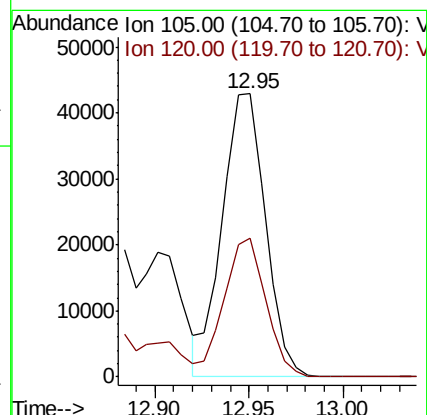
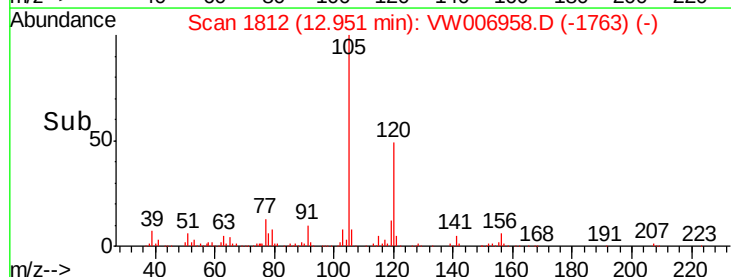
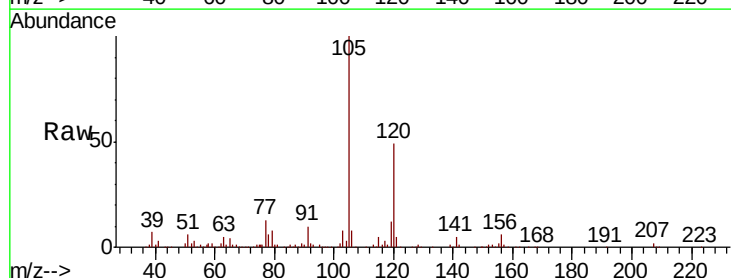
Acq: 19 Nov 2018 22:16

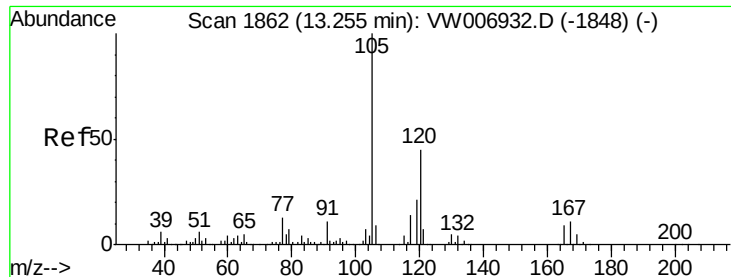
Tgt Ion:105 Resp: 68544

Ion Ratio Lower Upper

105 100

120 47.5 23.5 70.5

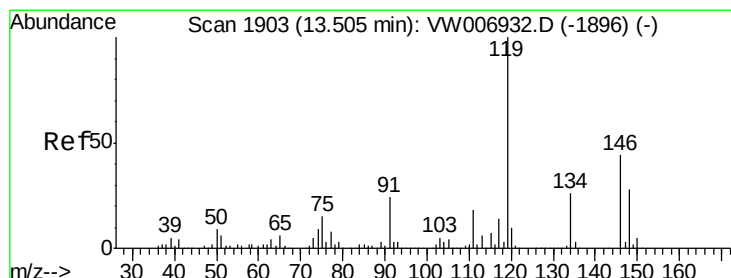
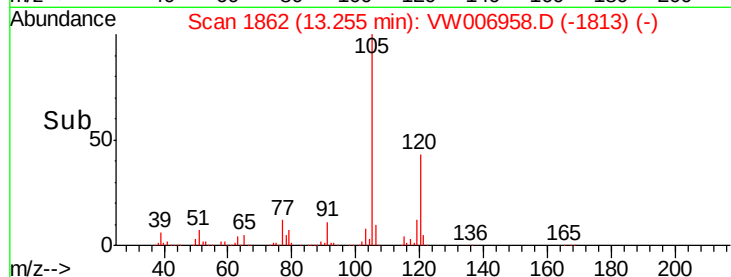
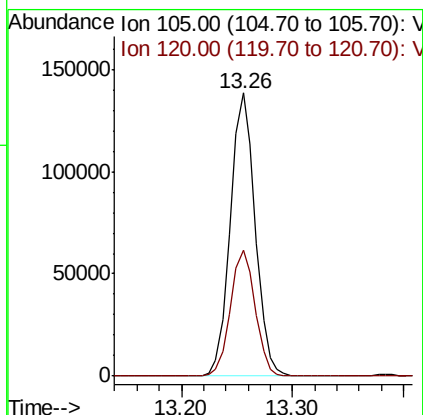
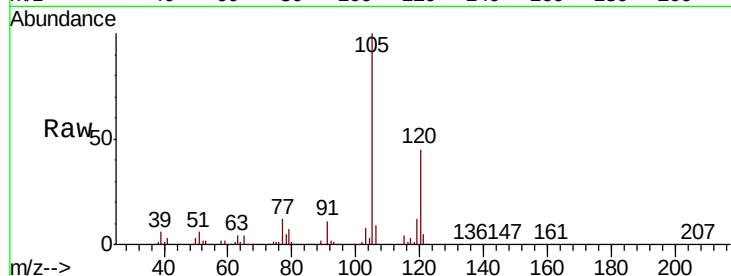




#84  
1,2,4-Trimethylbenzene  
Concen: 118.343 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW006958.D  
Acq: 19 Nov 2018 22:16

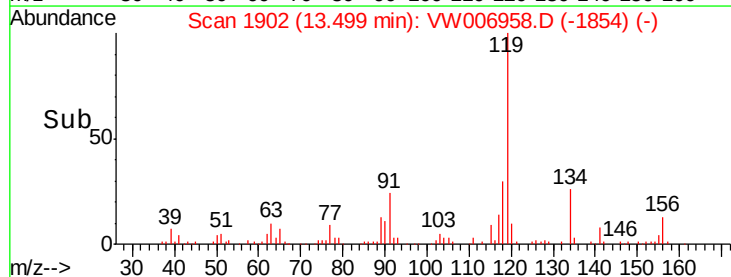
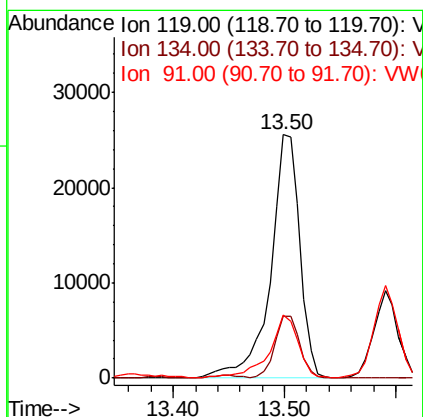
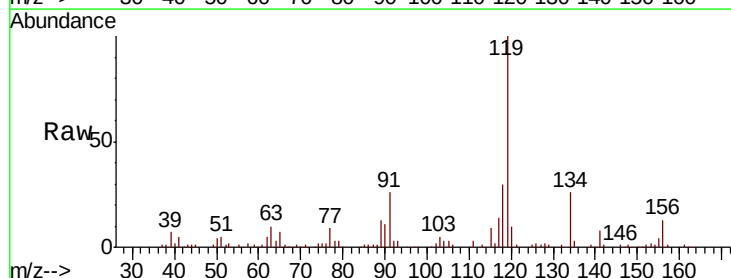
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-03(8-10)RE

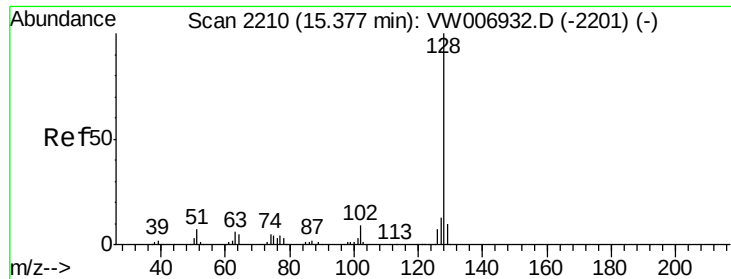
Tot Ion:105 Resp: 213781  
Ion Ratio Lower Upper  
105 100  
120 44.1 21.9 65.8



#86  
p-Isopropyltoluene  
Concen: 24.473 ug/l  
RT: 13.50 min Scan# 1902  
Delta R.T. -0.01 min  
Lab File: VW006958.D  
Acq: 19 Nov 2018 22:16

Tgt Ion:119 Resp: 46603  
Ion Ratio Lower Upper  
119 100  
134 21.7 12.7 38.1  
91 26.4 12.4 37.2



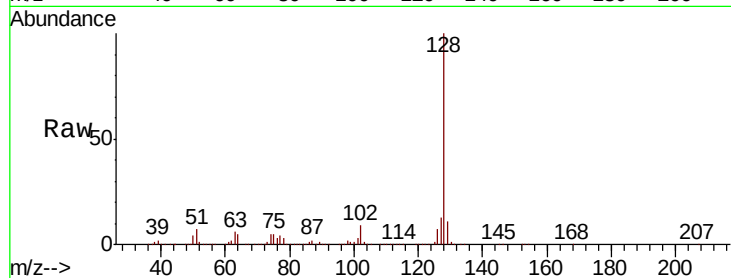


#95  
 Naphthalene  
 Concen: 3811.382 ug/l  
 RT: 15.38 min Scan# 2210  
 Delta R.T. -0.00 min  
 Lab File: VW006958.D  
 Acq: 19 Nov 2018 22:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-03(8-10)RE

Tot Ion:128 Resp: 3739326  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.3  | 10.6  | 15.8  |
| 129 | 11.0  | 8.5   | 12.7  |



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 127.00 (126.70 to 127.70): V  
 Ion 129.00 (128.70 to 129.70): V

