

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083018\  
 Data File : VV007275.D  
 Acq On : 30 Aug 2018 21:40  
 Operator : SY/MD  
 Sample : J4633-05MS  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 31 02:33:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR083018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 31 02:32:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 272458   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 274670   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 107988   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 76941    | 3.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 64.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 72307    | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 78.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 151602   | 3.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 76.00%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 221635   | 47.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.32%  |
| 24) Chloroform-d               | 4.41   | 84    | 180673   | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 89155    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 32) Benzene-d6                 | 5.10   | 84    | 340598   | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 79.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 116098   | 4.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 86.00%  |
| 41) Toluene-d8                 | 7.37   | 98    | 254369   | 3.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 66.40%# |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 35375    | 3.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 75.40%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 133820   | 41.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 83.36%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 87345    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 98860    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.60%  |

## Target Compounds

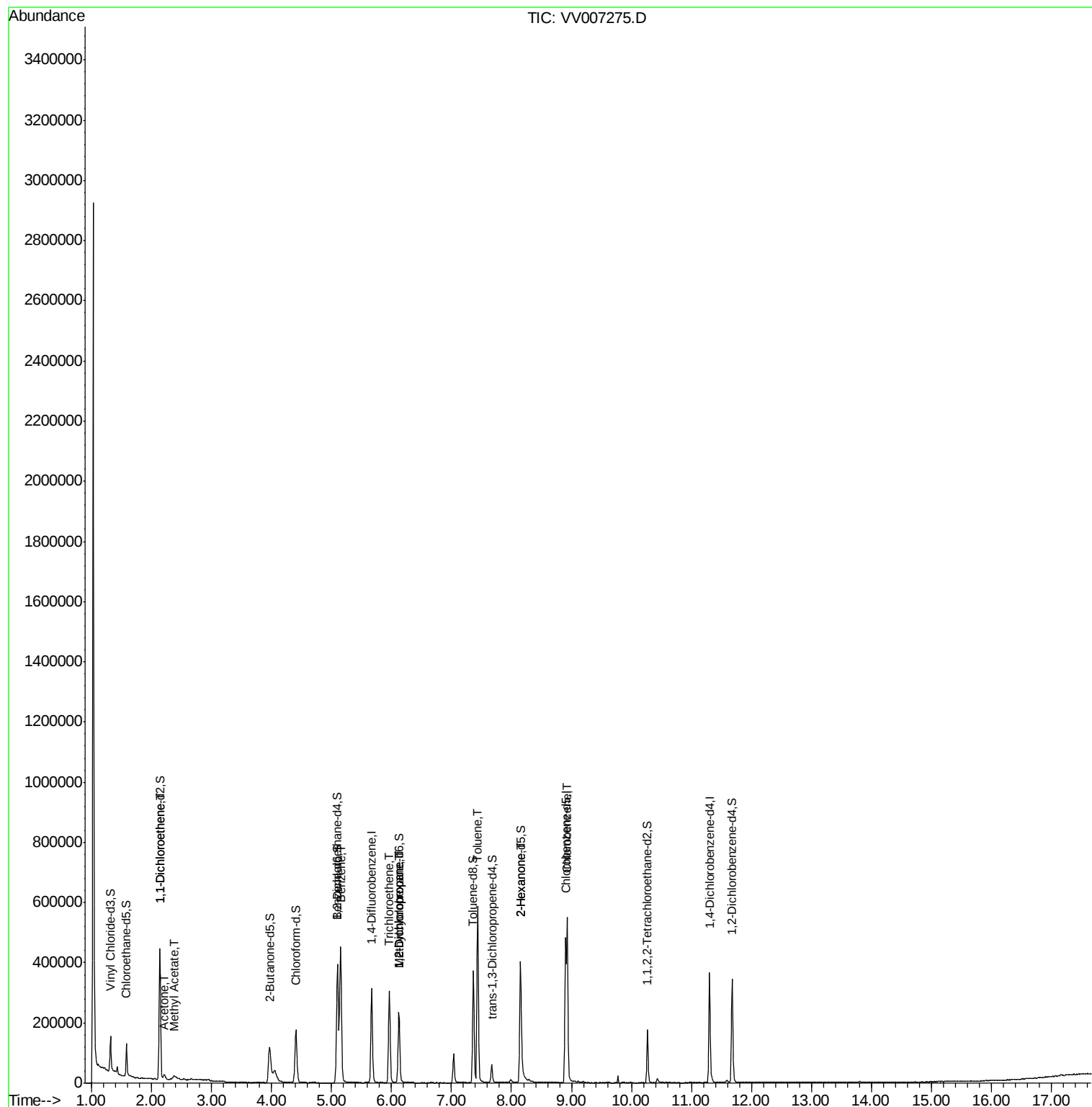
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 12) 1,1-Dichloroethene  | 2.14 | 96   | 97387    | 5.182 | ug/L   | 94     |
| 13) Acetone             | 2.21 | 43   | 16710    | 6.520 | ug/L   | 100    |
| 15) Methyl Acetate      | 2.37 | 43   | 5194     | 0.812 | ug/L # | 51     |
| 33) Benzene             | 5.15 | 78   | 461790   | 5.190 | ug/L   | 100    |
| 34) Trichloroethene     | 5.96 | 95   | 108908   | 4.981 | ug/L   | 99     |
| 35) Methylcyclohexane   | 6.12 | 83   | 27372    | 0.788 | ug/L # | 18     |
| 37) 1,2-Dichloropropane | 6.12 | 63   | 11723    | 0.510 | ug/L # | 87     |
| 42) Toluene             | 7.44 | 91   | 431028   | 4.851 | ug/L   | 100    |
| 48) 2-Hexanone          | 8.15 | 43   | 23149    | 3.106 | ug/L # | 78     |
| 51) Chlorobenzene       | 8.93 | 112  | 293791   | 5.063 | ug/L   | 99     |

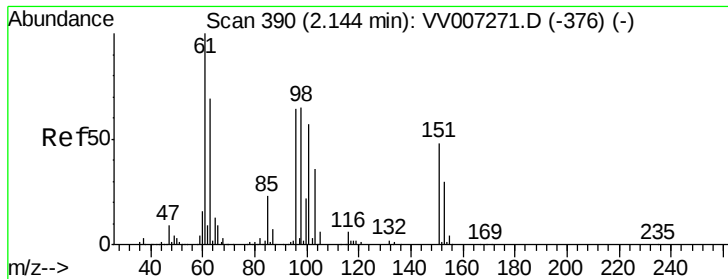
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV083018\  
Data File : VV007275.D  
Acq On : 30 Aug 2018 21:40  
Operator : SY/MD  
Sample : J4633-05MS  
Misc : 25.0 mL/MSVOA V/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Aug 31 02:33:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR083018WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Aug 31 02:32:21 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 5.182 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

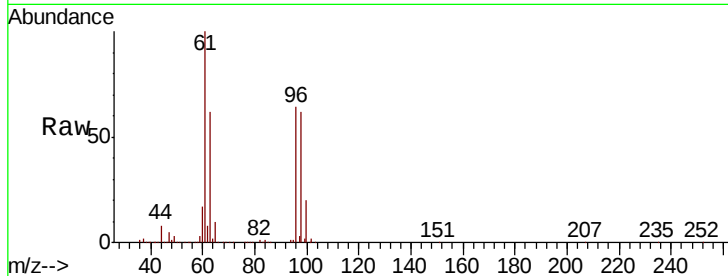
Lab File: VV007275.D

Acq: 30 Aug 2018 21:40

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 96 Resp: 97387

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 156.5 | 108.8 | 202.0 |
| 63  | 97.8  | 78.0  | 144.9 |

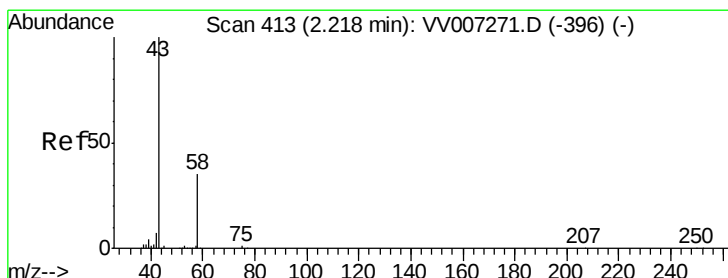
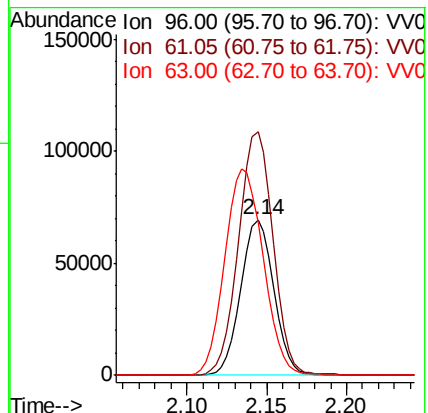
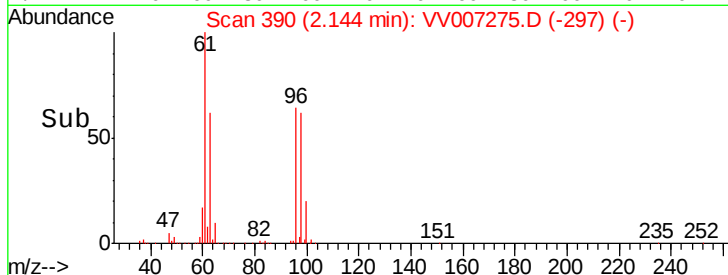


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0



#13

Acetone

Concen: 6.520 ug/L

RT: 2.21 min Scan# 411

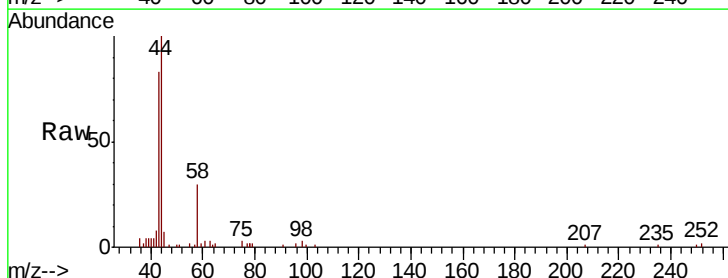
Delta R.T. -0.01 min

Lab File: VV007275.D

Acq: 30 Aug 2018 21:40

Tgt Ion: 43 Resp: 16710

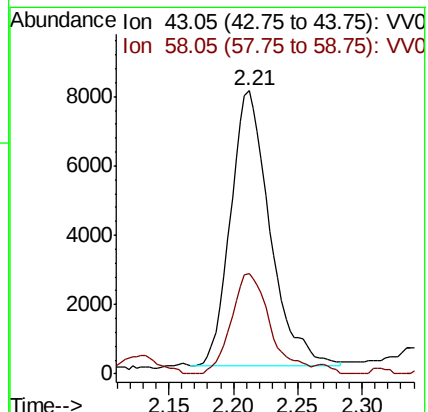
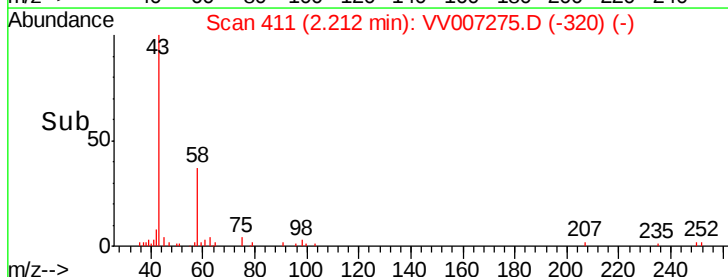
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 36.2  | 0.0   | 71.8  |

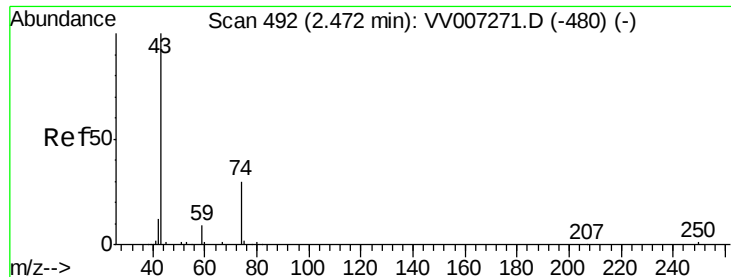


Abundance

Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0





#15

Methvl Acetate

Concen: 0.812 ug/L

RT: 2.37 min Scan# 460

Delta R.T. -0.10 min

Lab File: VV007275.D

Acq: 30 Aug 2018 21:40

Instrument :

MSVOA\_V

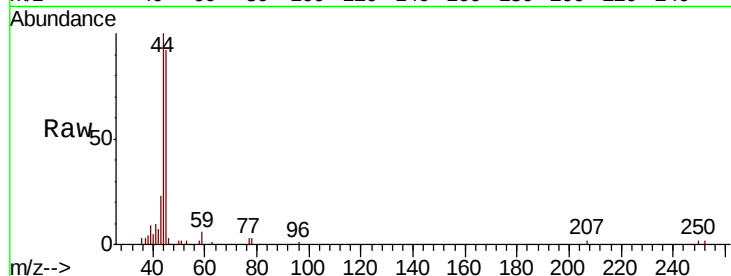
ClientSampleId :

Tot Ion: 43 Resp: 5194

Ion Ratio Lower Upper

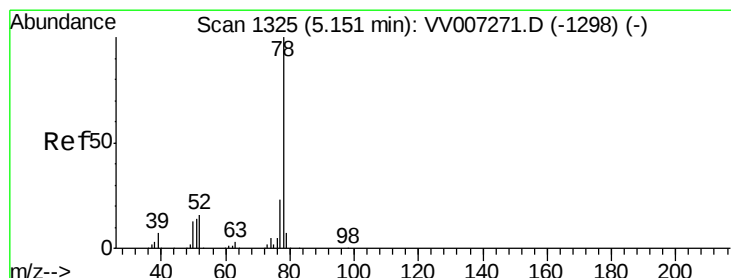
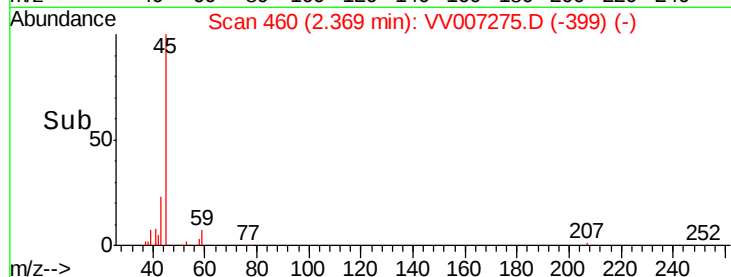
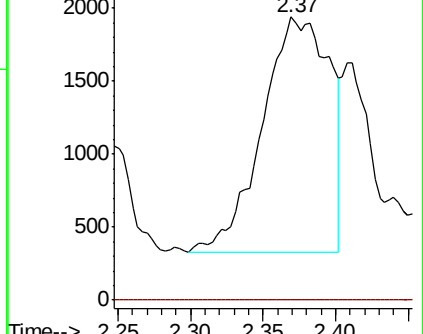
43 100

74 2.5 22.5 33.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#33

Benzene

Concen: 5.190 ug/L

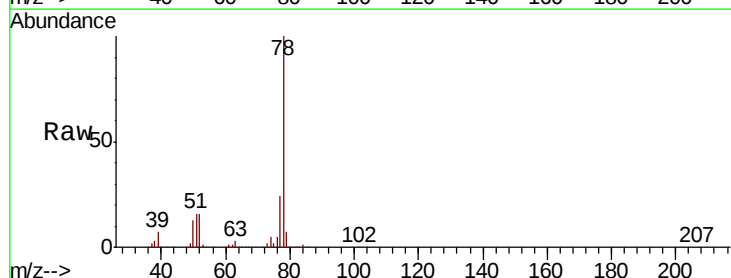
RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

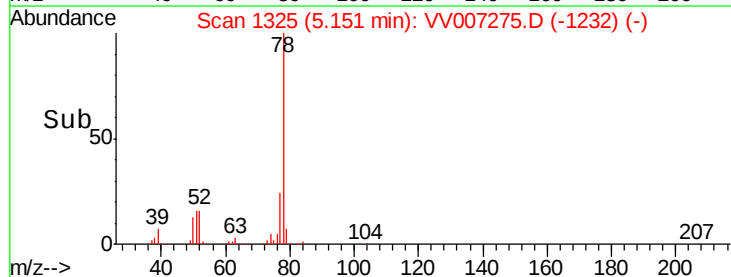
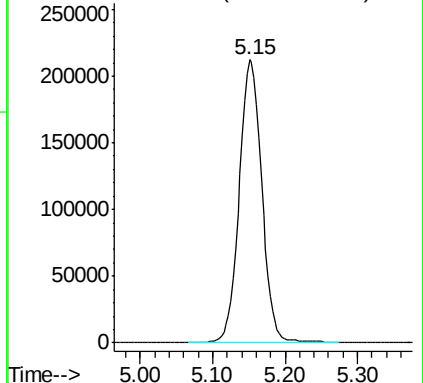
Lab File: VV007275.D

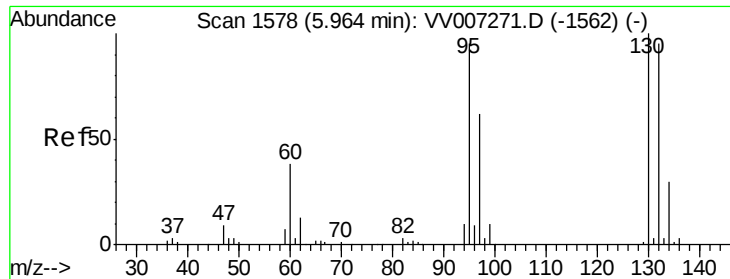
Acq: 30 Aug 2018 21:40

Tgt Ion: 78 Resp: 461790



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.981 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VV007275.D

Acq: 30 Aug 2018 21:40

Instrument :

MSVOA\_V

ClientSampled :

Tot Ion: 95 Resp: 108908

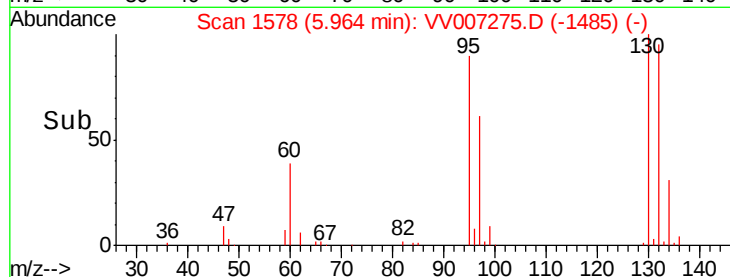
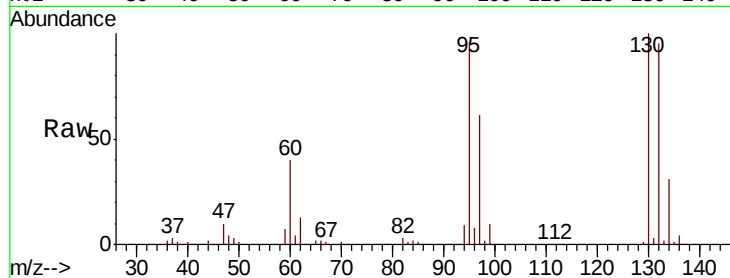
Ion Ratio Lower Upper

95 100

97 63.5 44.2 82.2

132 98.9 70.9 131.7

130 103.7 72.7 135.1

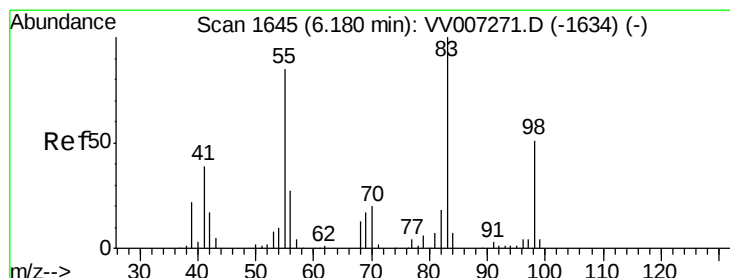
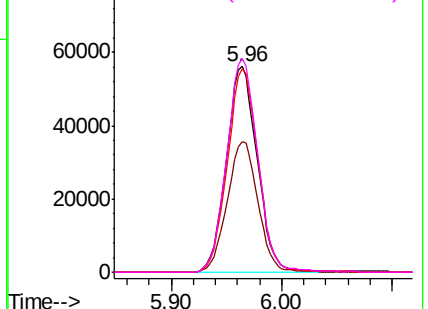


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.788 ug/L

RT: 6.12 min Scan# 1628

Delta R.T. -0.05 min

Lab File: VV007275.D

Acq: 30 Aug 2018 21:40

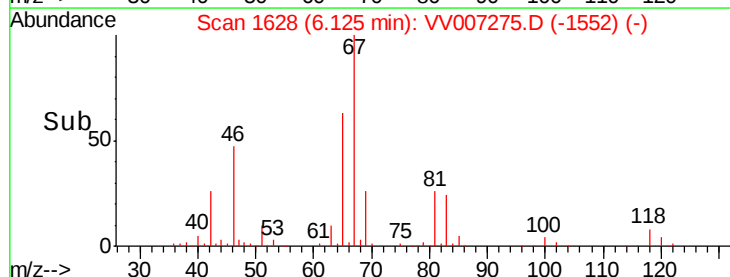
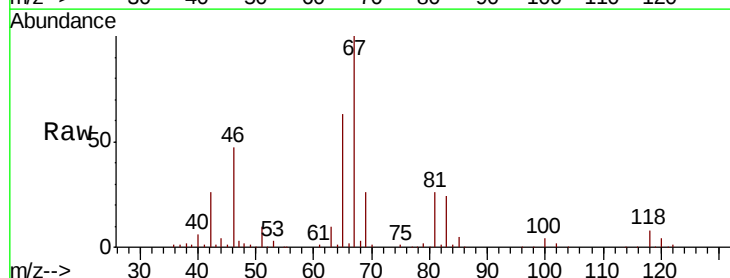
Tgt Ion: 83 Resp: 27372

Ion Ratio Lower Upper

83 100

55 0.8 63.5 95.3#

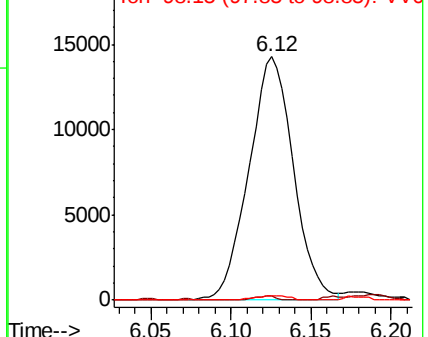
98 1.4 38.9 58.3#

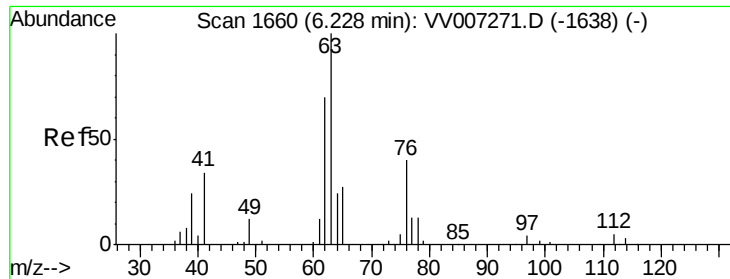


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

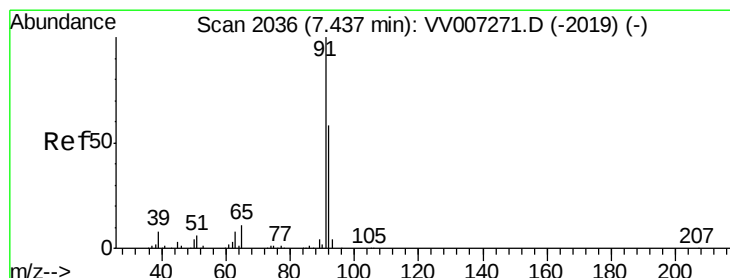
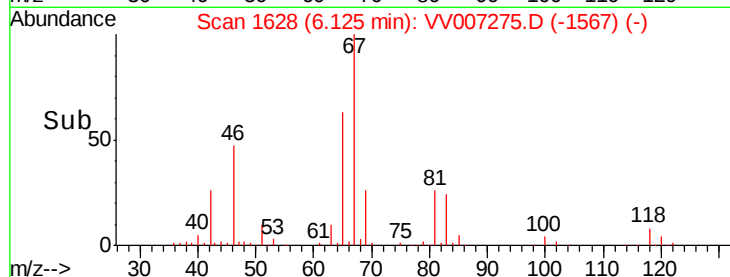
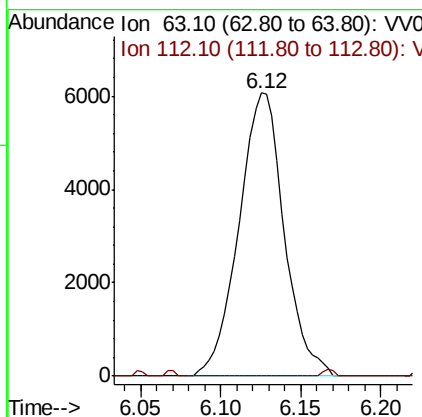
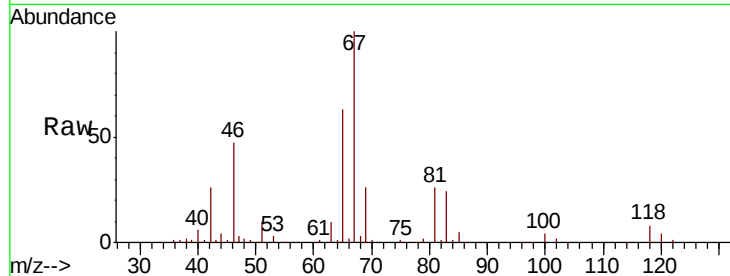




#37  
 1,2-Dichloropropane  
 Concen: 0.510 ug/L  
 RT: 6.12 min Scan# 1628  
 Delta R.T. -0.10 min  
 Lab File: VV007275.D  
 Acq: 30 Aug 2018 21:40

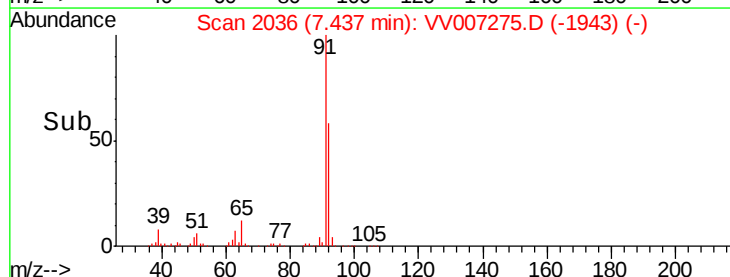
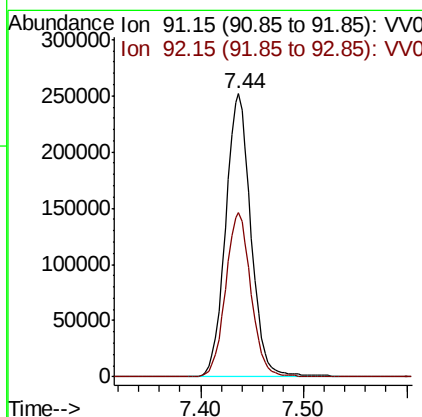
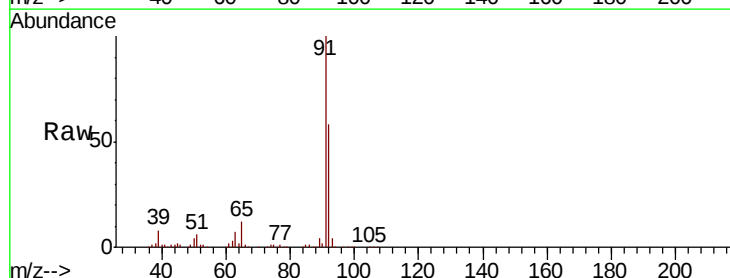
Instrument :  
 MSVOA\_V  
 ClientSampleId :

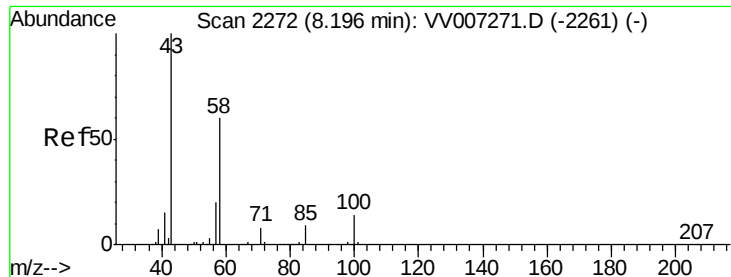
Tot Ion: 63 Resp: 11723  
 Ion Ratio Lower Upper  
 63 100  
 112 0.6 3.9 5.9#



#42  
 Toluene  
 Concen: 4.851 ug/L  
 RT: 7.44 min Scan# 2036  
 Delta R.T. -0.00 min  
 Lab File: VV007275.D  
 Acq: 30 Aug 2018 21:40

Tgt Ion: 91 Resp: 431028  
 Ion Ratio Lower Upper  
 91 100  
 92 57.9 40.7 75.7

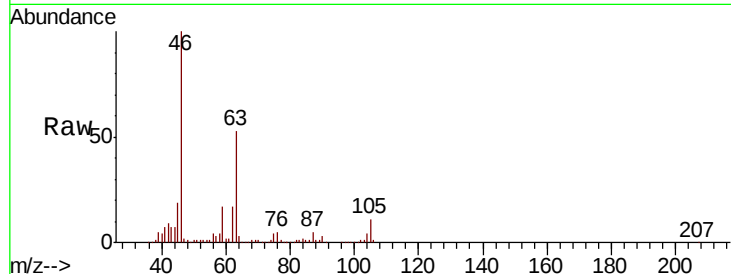




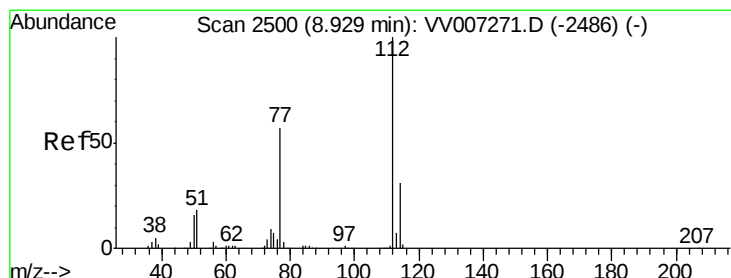
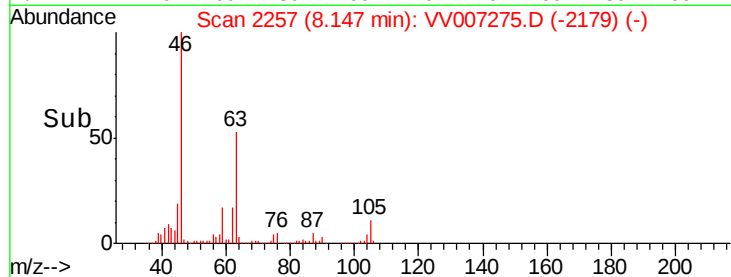
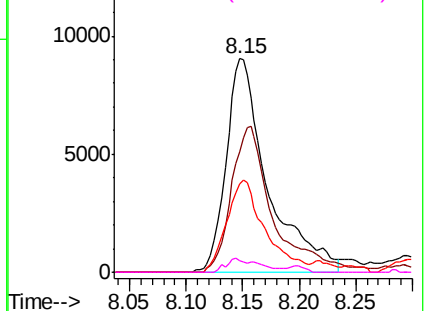
#48  
2-Hexanone  
Concen: 3.106 ug/L  
RT: 8.15 min Scan# 2257  
Delta R.T. -0.05 min  
Lab File: VV007275.D  
Acq: 30 Aug 2018 21:40

Instrument :  
MSVOA\_V  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 23149 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 68.3  | 46.6  | 69.8  |
| 57       | 39.5  | 15.4  | 23.0# |
| 100      | 2.8   | 10.4  | 15.6# |

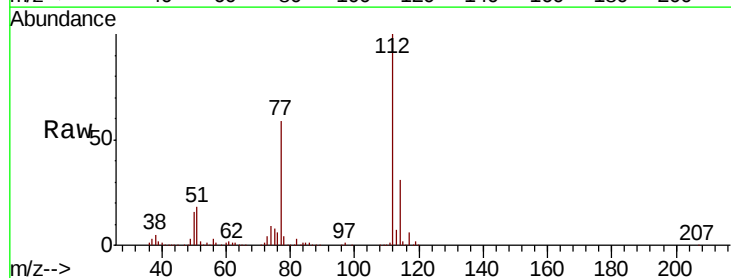


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0



#51  
Chlorobenzene  
Concen: 5.063 ug/L  
RT: 8.93 min Scan# 2500  
Delta R.T. -0.00 min  
Lab File: VV007275.D  
Acq: 30 Aug 2018 21:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 293791 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.1  | 22.7  | 42.3   |
| 77       | 58.6  | 46.7  | 70.1   |



Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): VV0

