

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
 Data File : VW014866.D  
 Acq On : 04 Feb 2020 18:24  
 Operator : SY/VA  
 Sample : L1324-08  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAT65

Manual Integrations  
 APPROVED

MMDadoda  
 2/5/2020 6:25:22 PM

Quant Time: Feb 05 04:48:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 05 03:41:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1195361  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 1008891  | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 384945m  | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 400651   | 21.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.60%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 375748   | 20.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.96%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 606749m  | 15.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 61.04%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 295259   | 41.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 83.92%  |
| 24) Chloroform-d               | 7.65   | 84    | 841644   | 22.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 88.48%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 480623   | 22.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 89.88%  |
| 29) Benzene-d6                 | 8.27   | 84    | 1751586  | 24.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.52%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 577107   | 24.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 99.04%  |
| 37) Toluene-d8                 | 10.32  | 98    | 1457873  | 23.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.92%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 206130   | 22.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 89.36%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 232620   | 50.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.96% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 393750   | 21.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 86.72%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 391182   | 24.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 97.04%  |

## Target Compounds

| Target Compounds       | R.T.  | QIon | Response | Conc    | Units | Ovalue |
|------------------------|-------|------|----------|---------|-------|--------|
| 13) Acetone            | 4.12  | 43   | 72950    | 9.586   | ug/L  | 99     |
| 16) Methylene chloride | 4.92  | 84   | 40695    | 1.844   | ug/L  | 92     |
| 21) 2-Butanone         | 7.17  | 43   | 26267    | 3.216   | ug/L  | 92     |
| 34) Benzene            | 8.32  | 78   | 603308   | 8.540   | ug/L  | 100    |
| 44) Toluene            | 10.38 | 91   | 1451355  | 20.534  | ug/L  | 99     |
| 53) Ethylbenzene       | 11.73 | 91   | 4320333  | 56.413  | ug/L  | 100    |
| 54) m,p-Xylene         | 11.84 | 106  | 1650067  | 58.878  | ug/L  | 98     |
| 55) o-xylene           | 12.16 | 106  | 2669615  | 102.249 | ug/L  | 96     |
| 57) Isopropylbenzene   | 12.46 | 105  | 431026   | 6.105   | ug/L  | 100    |

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

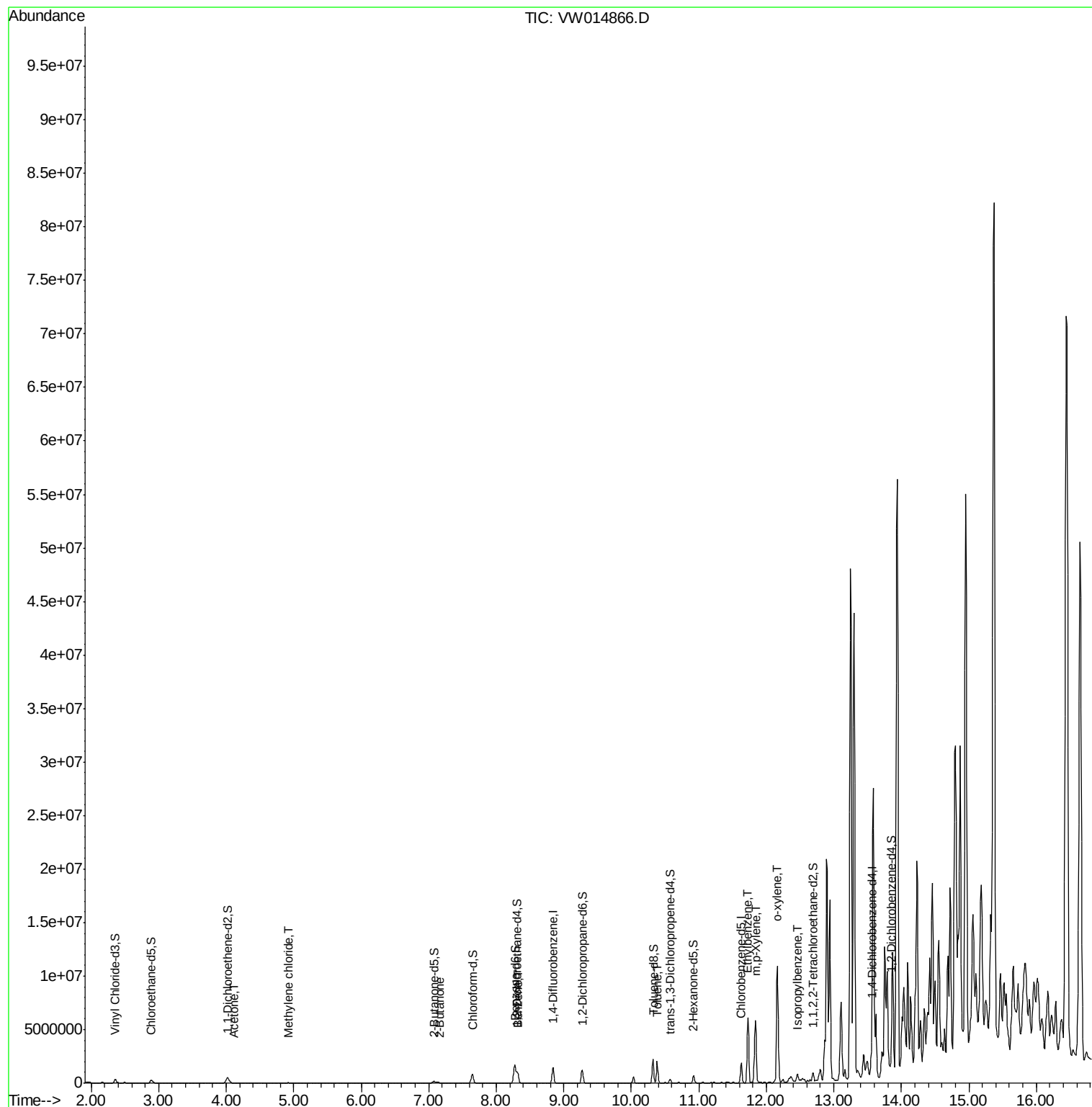
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020420\  
Data File : VW014866.D  
Acq On : 04 Feb 2020 18:24  
Operator : SY/VA  
Sample : L1324-08  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

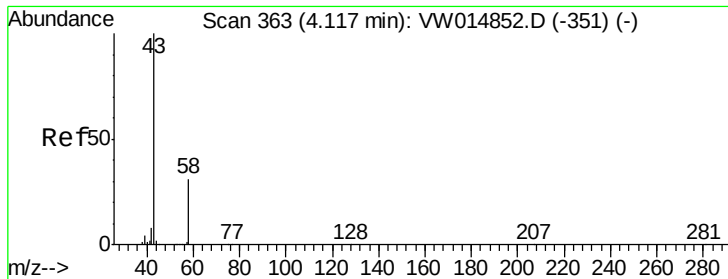
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT65

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Quant Time: Feb 05 04:48:31 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020320S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Feb 05 03:41:59 2020  
Response via : Initial Calibration





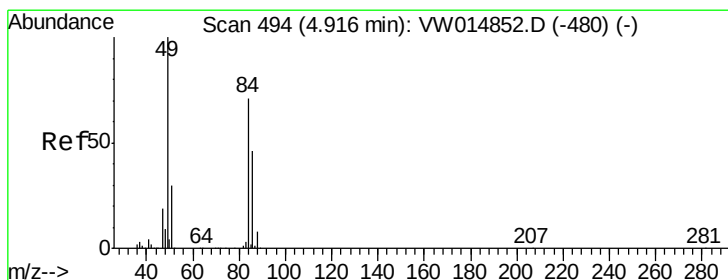
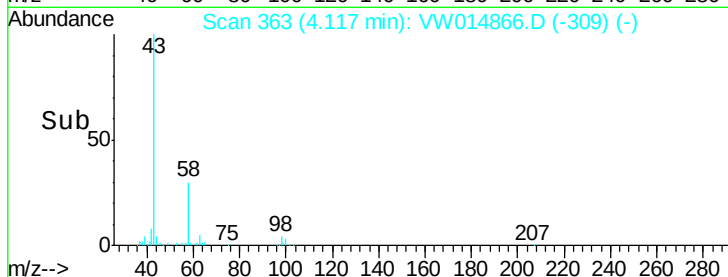
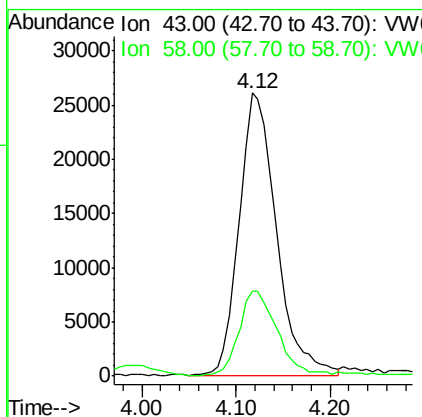
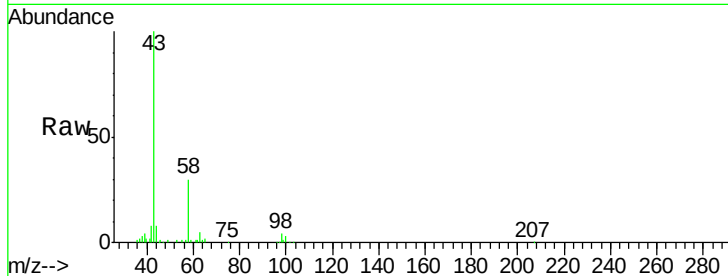
#13  
Acetone  
Concen: 9.586 ug/L  
RT: 4.12 min Scan# 363  
Delta R.T. -0.00 min  
Lab File: VW014866.D  
Acq: 04 Feb 2020 18:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAT65

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 72950 |       |       |
| 58      | 29.8  |       | 0.0   | 60.2  |

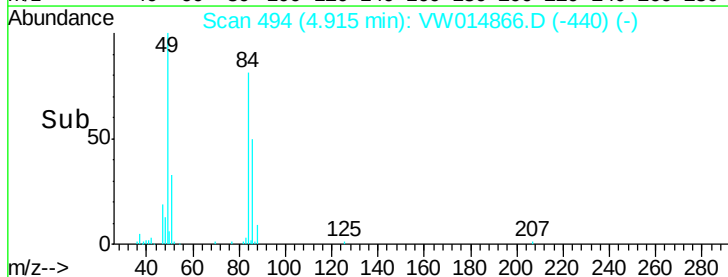
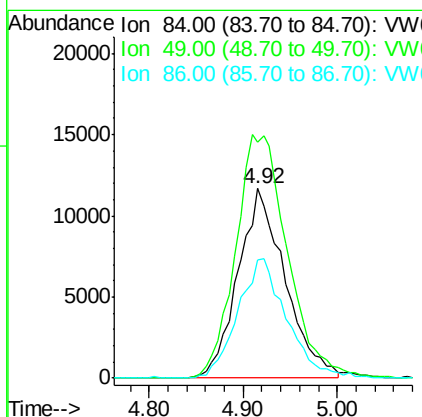
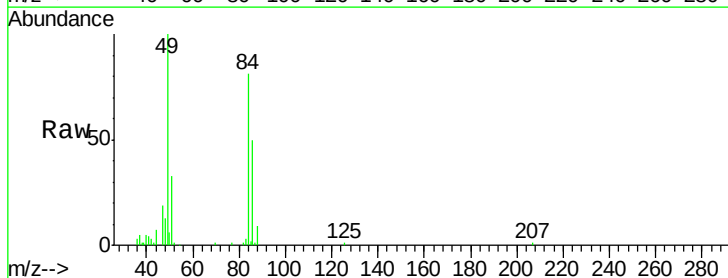
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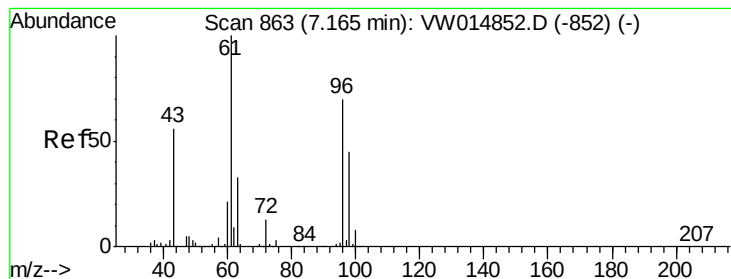
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#16  
Methylene chloride  
Concen: 1.844 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. -0.00 min  
Lab File: VW014866.D  
Acq: 04 Feb 2020 18:24

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 84      | 100   | 40695 |       |       |
| 49      | 124.2 |       | 96.6  | 179.4 |
| 86      | 62.3  |       | 43.8  | 81.4  |





#21

2-Butanone

Concen: 3.216 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW014866.D

Acq: 04 Feb 2020 18:24

Instrument :

MSVOA\_W

ClientSampleId :

GAT65

Tot Ion: 43 Resp: 26267

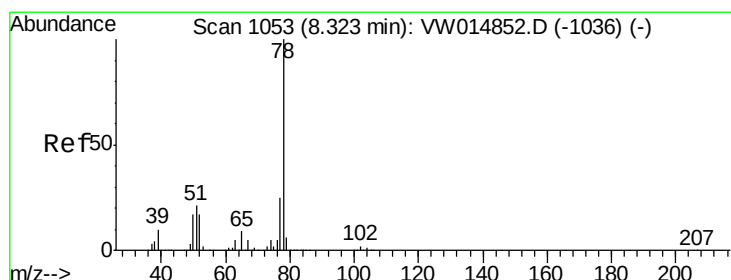
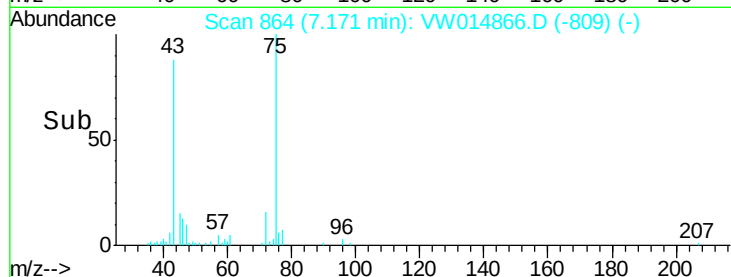
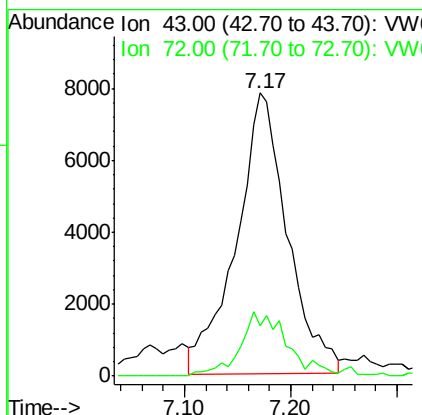
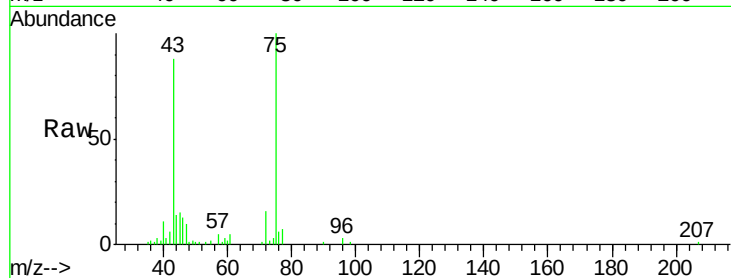
Ion Ratio Lower Upper

43 100

72 19.5 11.7 35.0

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#34

Benzene

Concen: 8.540 ug/L

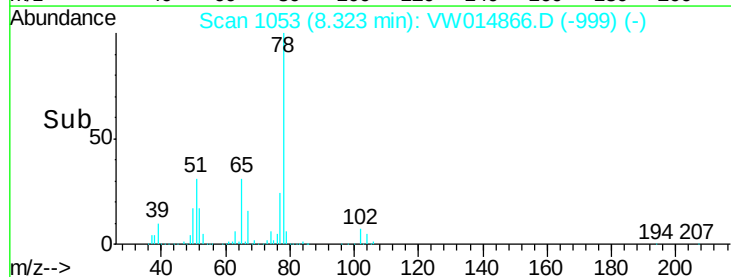
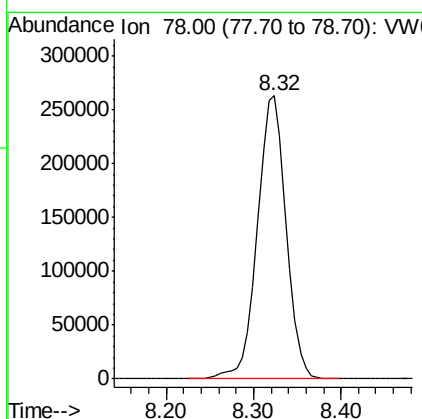
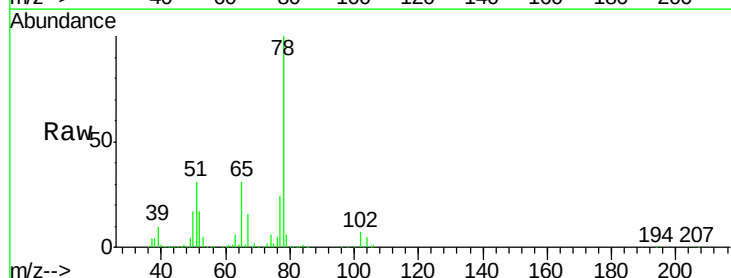
RT: 8.32 min Scan# 1053

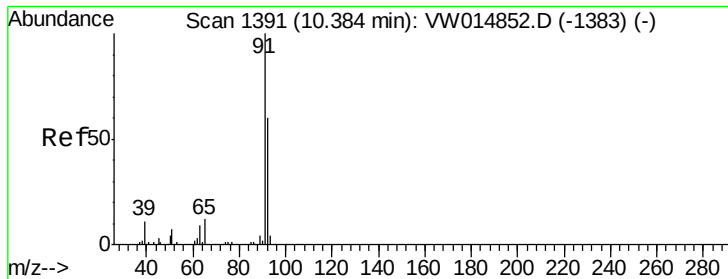
Delta R.T. -0.00 min

Lab File: VW014866.D

Acq: 04 Feb 2020 18:24

Tgt Ion: 78 Resp: 603308





#44

Toluene

Concen: 20.534 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014866.D

Acq: 04 Feb 2020 18:24

Instrument :

MSVOA\_W

ClientSampleId :

GAT65

Tot Ion: 91 Resp: 1451355

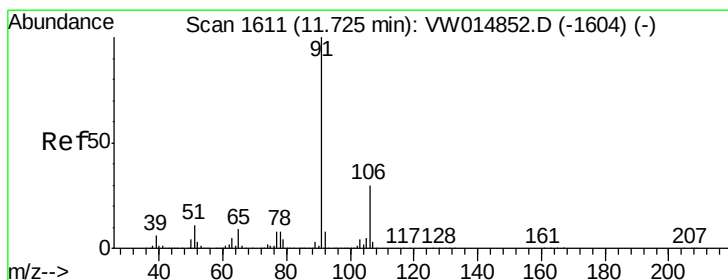
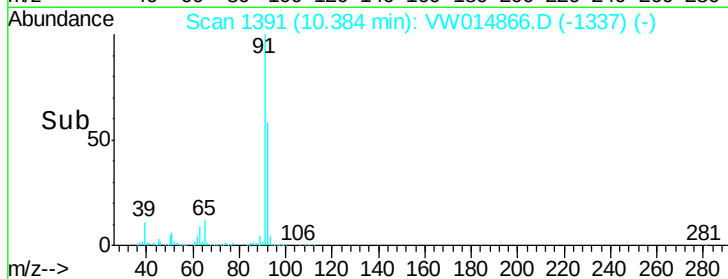
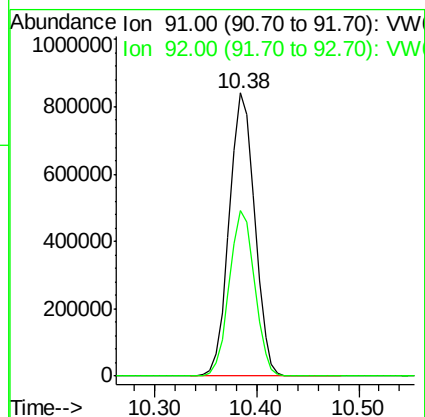
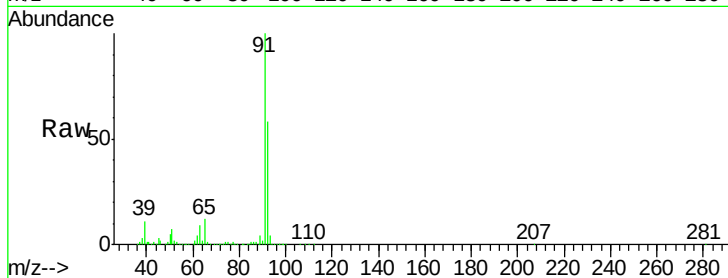
Ion Ratio Lower Upper

91 100

92 58.4 41.6 77.2

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#53

Ethylbenzene

Concen: 56.413 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.00 min

Lab File: VW014866.D

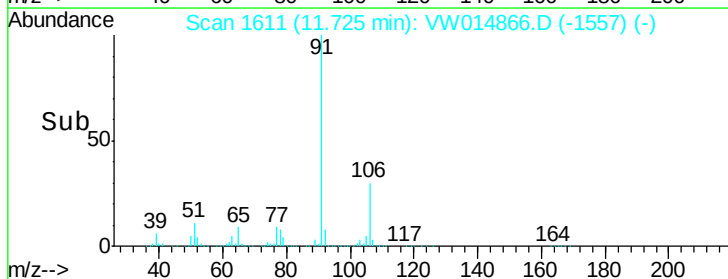
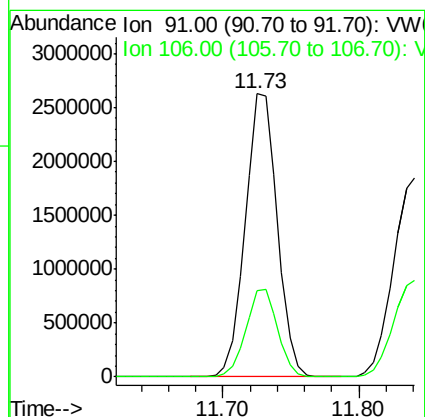
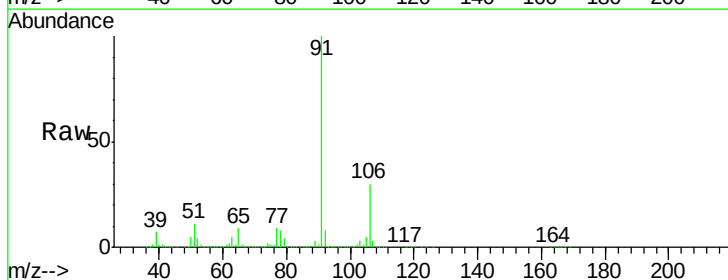
Acq: 04 Feb 2020 18:24

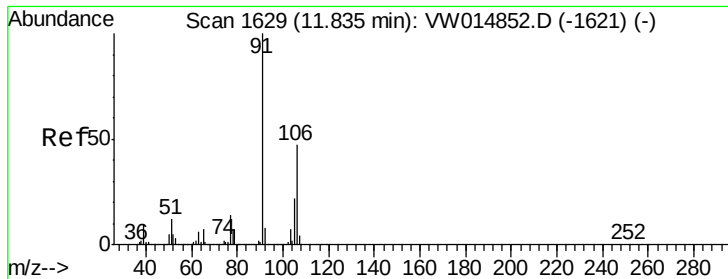
Tgt Ion: 91 Resp: 4320333

Ion Ratio Lower Upper

91 100

106 30.4 21.3 39.5





#54

m,p-Xylene

Concen: 58.878 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW014866.D

Acq: 04 Feb 2020 18:24

Instrument :

MSVOA\_W

ClientSampled :

GAT65

Tot Ion:106 Resp: 1650067

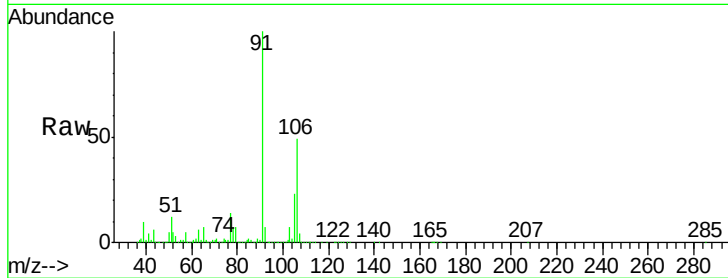
Ion Ratio Lower Upper

106 100

91 205.0 145.3 269.9

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

3000000

2500000

2000000

1500000

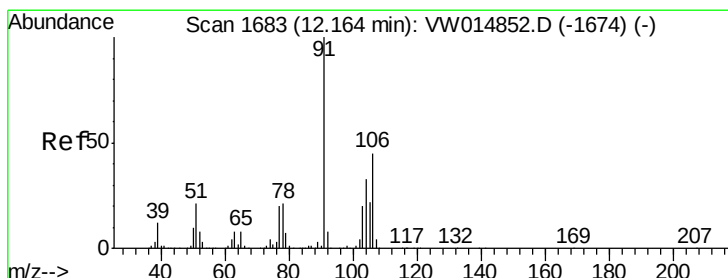
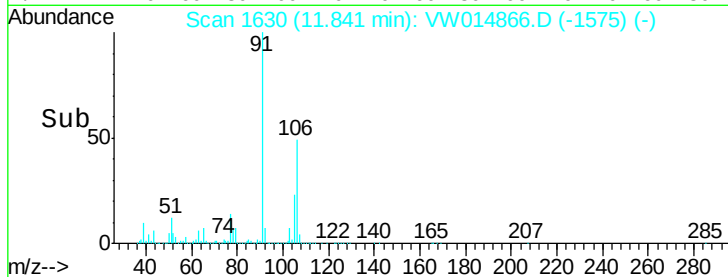
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500000

0

11.75 11.80 11.85 11.90

Time-->



#55

o-xylene

Concen: 102.249 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014866.D

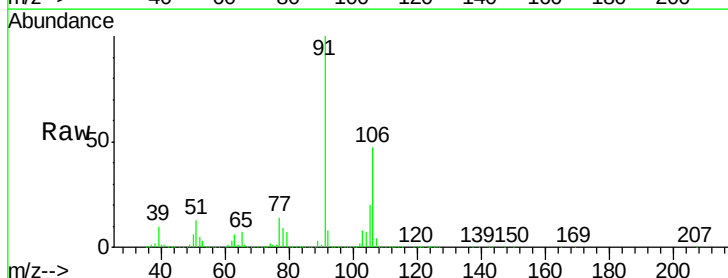
Acq: 04 Feb 2020 18:24

Tgt Ion:106 Resp: 2669615

Ion Ratio Lower Upper

106 100

91 215.0 154.6 287.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

4000000

3000000

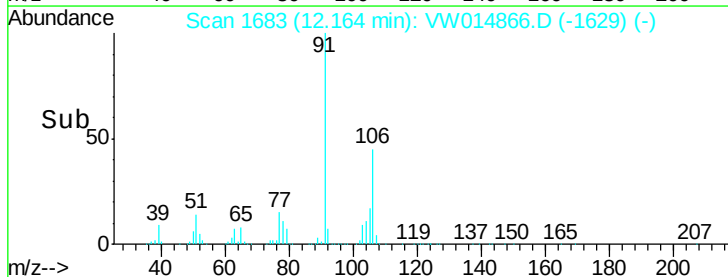
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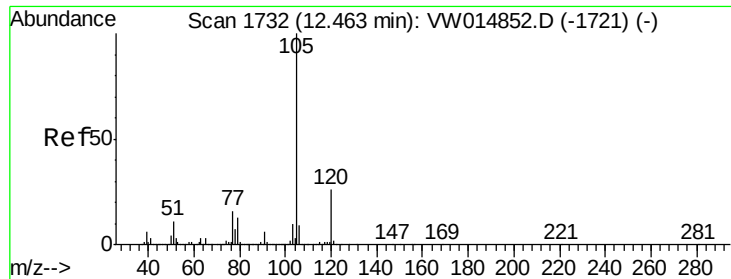
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0

12.10 12.15 12.20 12.25

Time-->





#57  
 Isopropylbenzene  
 Concen: 6.105 ug/L  
 RT: 12.46 min Scan# 1732  
 Delta R.T. -0.00 min  
 Lab File: VW014866.D  
 Acq: 04 Feb 2020 18:24

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAT65

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 105  | Resp: | 431026 |
| Ion Ratio |      | Lower | Upper  |
| 105       | 100  |       |        |
| 120       | 25.7 | 20.5  | 30.7   |
| 77        | 16.2 | 13.3  | 19.9   |

Manual Integrations  
 APPROVED

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 2/5/2020 6:25:22 PM

