

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102319\  
 Data File : VV013307.D  
 Acq On : 23 Oct 2019 20:36  
 Operator : SY/MD  
 Sample : K5395-16  
 Misc : 5.00ML/MSVOA V/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0045

Manual Integrations  
 APPROVED

MMDadoda  
 10/24/2019 10:46:00 AM

Quant Time: Oct 24 04:30:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 24 04:17:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 1210919  | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 1160290  | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 519392   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 358427   | 44.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.30%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 296950   | 47.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.86%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 433588   | 36.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.84%  |
| 21) 2-Butanone-d5              | 3.97    | 46    | 559599   | 104.05   | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.05% |
| 24) Chloroform-d               | 4.40    | 84    | 795141   | 45.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.94%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 497626   | 48.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.90%  |
| 32) Benzene-d6                 | 5.10    | 84    | 1675133  | 46.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.78%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 529321   | 47.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.70%  |
| 41) Toluene-d8                 | 7.36    | 98    | 1473932  | 45.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.52%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 222358   | 45.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.12%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 324513   | 96.86    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 96.86%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 689038   | 47.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.24%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 605098   | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.54% |

## Target Compounds

|                            |       |     |        | Ovalue          |
|----------------------------|-------|-----|--------|-----------------|
| 13) Acetone                | 2.25  | 43  | 17880m | 4.499 ug/L      |
| 63) 1,4-Dichlorobenzene    | 11.32 | 146 | 11047  | 0.634 ug/L # 82 |
| 68) 1,2,4-trichlorobenzene | 13.31 | 180 | 8944   | 0.844 ug/L # 93 |
| 70) 1,2,3-Trichlorobenzene | 13.79 | 180 | 12041  | 1.060 ug/L 98   |

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

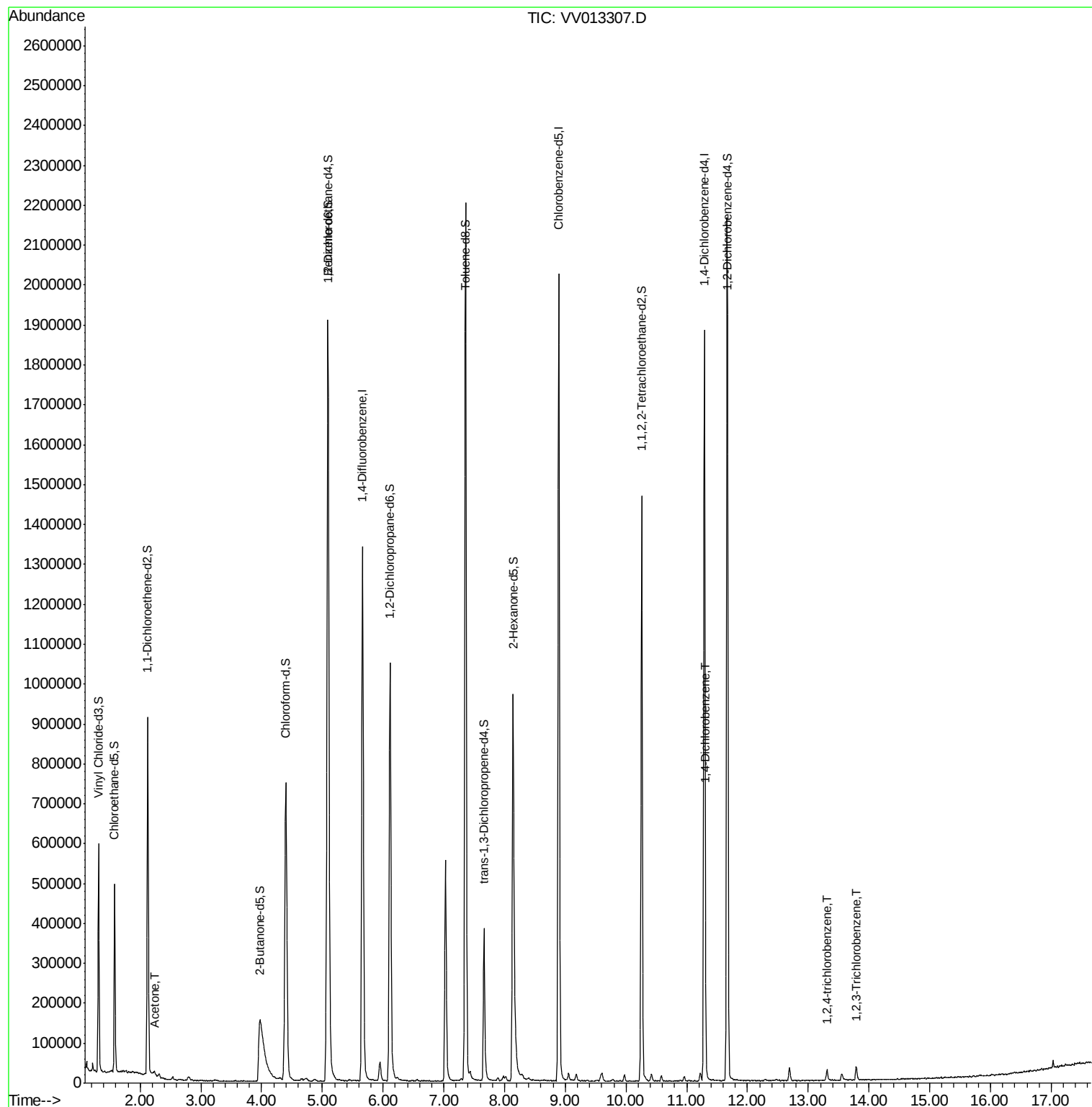
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV102319\  
Data File : VV013307.D  
Acq On : 23 Oct 2019 20:36  
Operator : SY/MD  
Sample : K5395-16  
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ALS Vial : 23 Sample Multiplier: 1

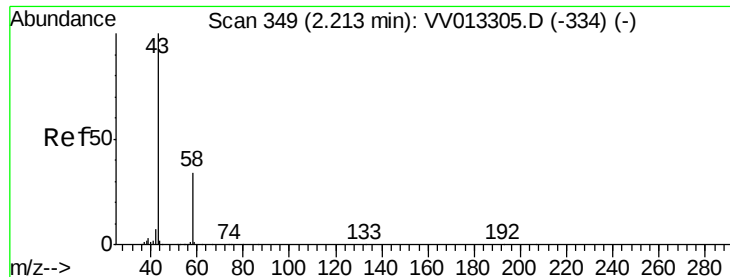
Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 24 04:17:57 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 4.499 ug/L m

RT: 2.25 min Scan# 361

Delta R.T. 0.04 min

Lab File: VV013307.D

Acq: 23 Oct 2019 20:36

Instrument :

MSVOA\_V

ClientSampleId :

C0045

Tot Ion: 43 Resp: 17880

Ion Ratio Lower Upper

43 100

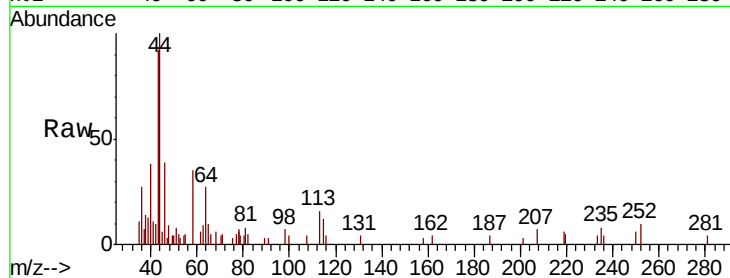
58 5.0 0.0 64.0

Manual Integrations

APPROVED

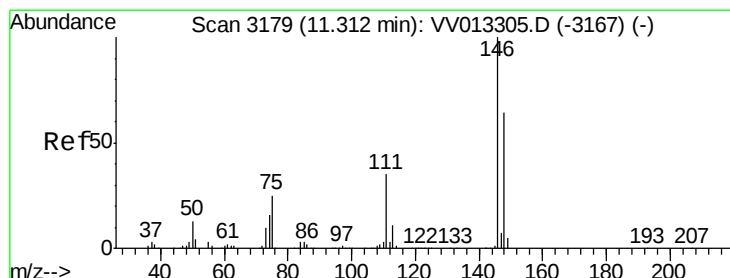
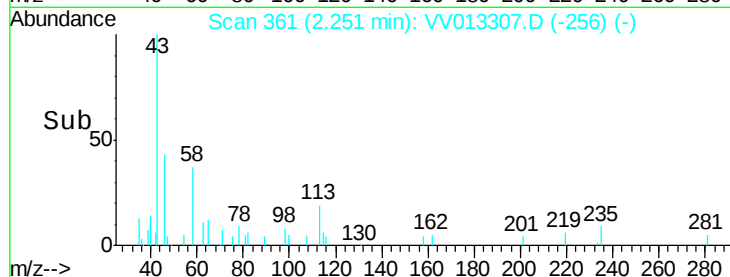
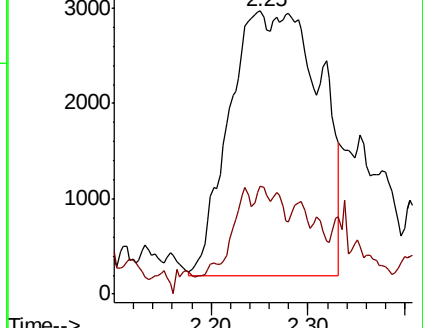
MMDadoda

10/24/2019 10:46:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VV013305.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV013305.D (-334) (-)



#63

1,4-Dichlorobenzene

Concen: 0.634 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013307.D

Acq: 23 Oct 2019 20:36

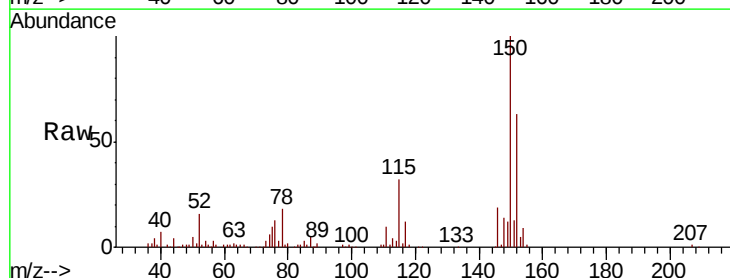
Tgt Ion: 146 Resp: 11047

Ion Ratio Lower Upper

146 100

111 51.3 24.5 45.5#

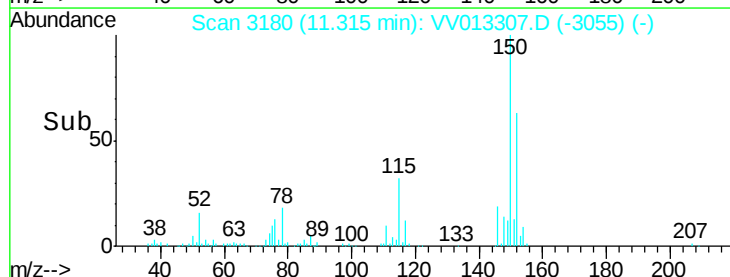
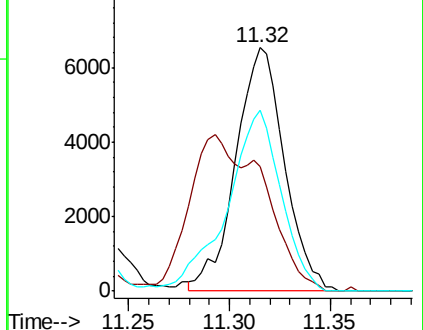
148 74.4 45.0 83.6

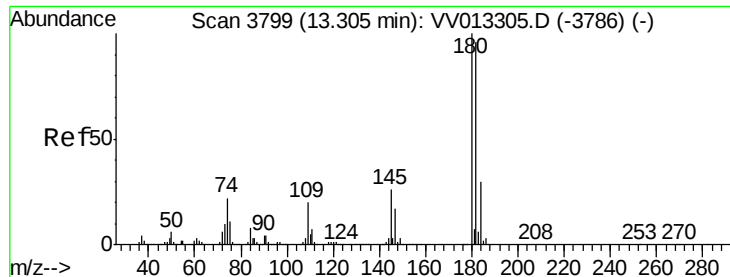


Abundance Ion 146.00 (145.70 to 146.70): VV013305.D (-3167) (-)

Ion 111.00 (110.70 to 111.70): VV013305.D (-3167) (-)

Ion 148.00 (147.70 to 148.70): VV013305.D (-3167) (-)





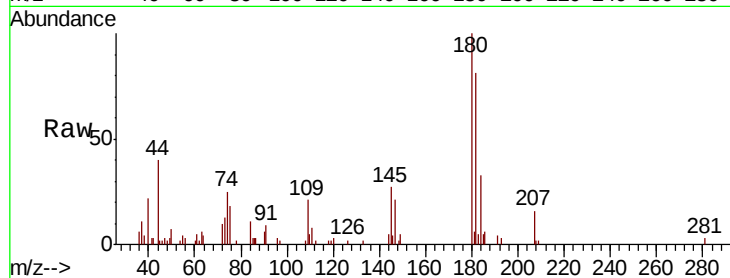
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.844 ug/L  
 RT: 13.31 min Scan# 3800  
 Delta R.T. 0.00 min  
 Lab File: VV013307.D  
 Acq: 23 Oct 2019 20:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0045

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 91.8  | 77.3  | 115.9 |
| 145     | 20.0  | 21.7  | 32.5# |

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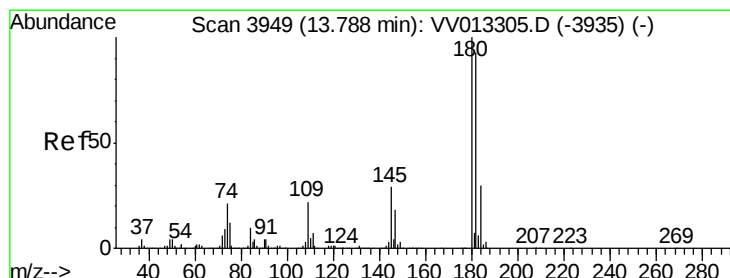
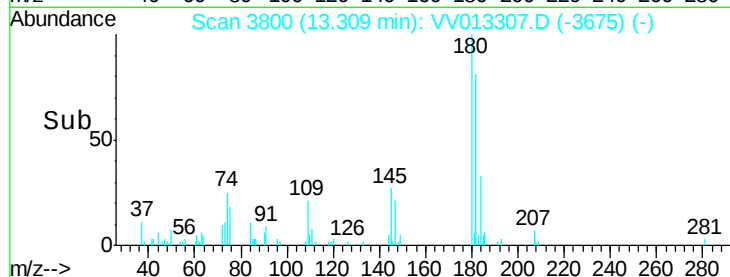
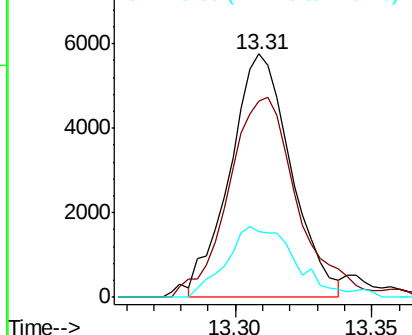


Abundance

Ion 180.00 (179.70 to 180.70): V

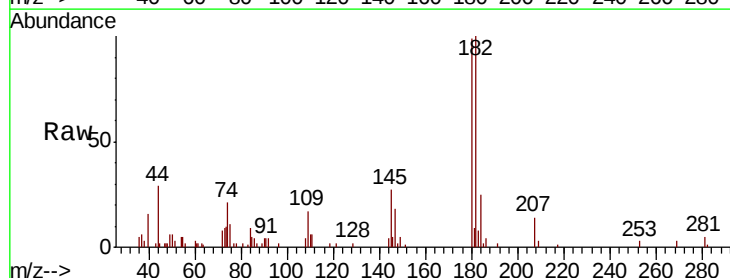
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#70  
 1,2,3-Trichlorobenzene  
 Concen: 1.060 ug/L  
 RT: 13.79 min Scan# 3950  
 Delta R.T. 0.00 min  
 Lab File: VV013307.D  
 Acq: 23 Oct 2019 20:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.7  | 77.0  | 115.6 |
| 145     | 27.2  | 23.4  | 35.2  |



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

