

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112519\  
 Data File : VV013772.D  
 Acq On : 25 Nov 2019 18:08  
 Operator : SY/MD  
 Sample : K6004-02  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 B0AE0

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.1  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
 Title : TRACE VOA SOM01.0

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.206       | 29            | 36          | 63           | rBV      | 515384         | 1099949       | 10.58%          | 4.557%        |
| 2         | 1.319       | 65            | 71          | 80           | rVB2     | 222518         | 254430        | 2.45%           | 1.054%        |
| 3         | 1.582       | 147           | 153         | 163          | rVB      | 145704         | 167953        | 1.62%           | 0.696%        |
| 4         | 1.824       | 222           | 228         | 239          | rVB      | 87794          | 108027        | 1.04%           | 0.448%        |
| 5         | 2.139       | 315           | 326         | 336          | rVB4     | 622471         | 1034487       | 9.95%           | 4.286%        |
| 6         | 3.229       | 652           | 665         | 683          | rBV      | 77027          | 160167        | 1.54%           | 0.664%        |
| 7         | 3.959       | 870           | 892         | 923          | rBV2     | 1071150        | 2838136       | 27.29%          | 11.759%       |
| 8         | 4.393       | 1011          | 1027        | 1051         | rBV2     | 198458         | 496382        | 4.77%           | 2.057%        |
| 9         | 5.094       | 1226          | 1245        | 1267         | rBV3     | 439969         | 1100204       | 10.58%          | 4.558%        |
| 10        | 5.659       | 1403          | 1421        | 1440         | rBV      | 401040         | 800413        | 7.70%           | 3.316%        |
| 11        | 5.955       | 1497          | 1513        | 1544         | rBV      | 5491377        | 10398969      | 100.00%         | 43.085%       |
| 12        | 6.113       | 1551          | 1562        | 1582         | rVB      | 257050         | 505310        | 4.86%           | 2.094%        |
| 13        | 7.026       | 1834          | 1846        | 1859         | rBV      | 115004         | 207883        | 2.00%           | 0.861%        |
| 14        | 7.357       | 1935          | 1949        | 1967         | rBV      | 484139         | 857071        | 8.24%           | 3.551%        |
| 15        | 7.663       | 2031          | 2044        | 2061         | rBV2     | 71932          | 125371        | 1.21%           | 0.519%        |
| 16        | 8.129       | 2178          | 2189        | 2219         | rBV      | 435003         | 1000496       | 9.62%           | 4.145%        |
| 17        | 8.891       | 2413          | 2426        | 2448         | rBV      | 606733         | 999753        | 9.61%           | 4.142%        |
| 18        | 10.257      | 2840          | 2851        | 2863         | rBV      | 206838         | 323400        | 3.11%           | 1.340%        |
| 19        | 11.289      | 3160          | 3172        | 3188         | rBV      | 537431         | 859392        | 8.26%           | 3.561%        |
| 20        | 11.666      | 3277          | 3289        | 3307         | rBV      | 502888         | 798327        | 7.68%           | 3.308%        |

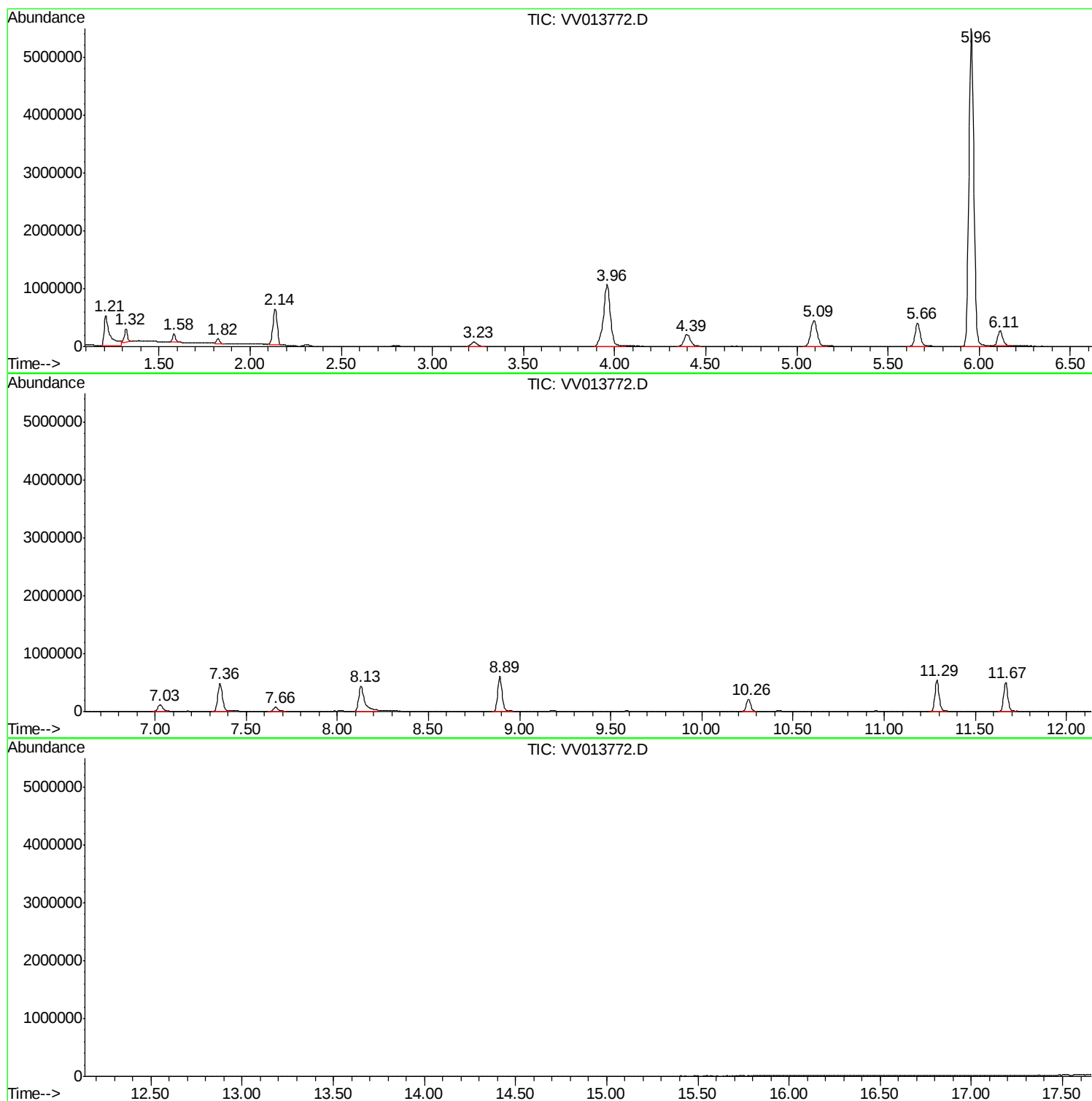
Sum of corrected areas: 24136120

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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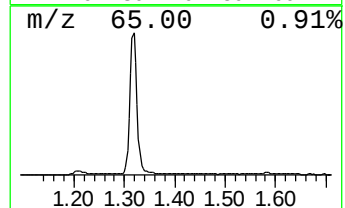
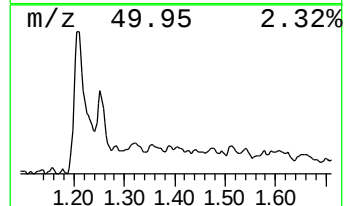
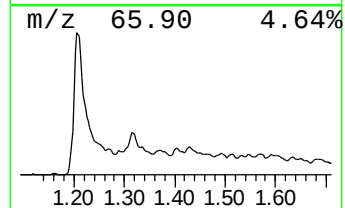
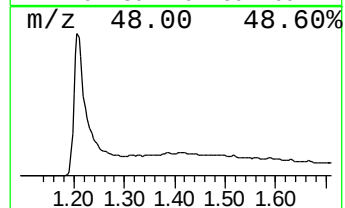
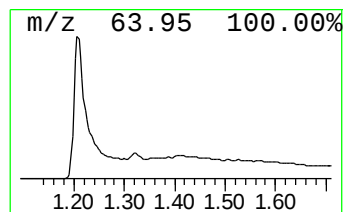
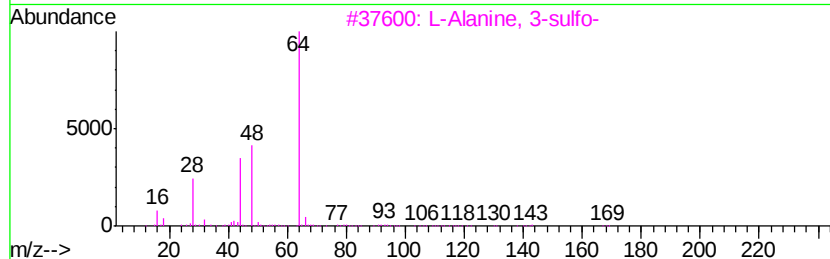
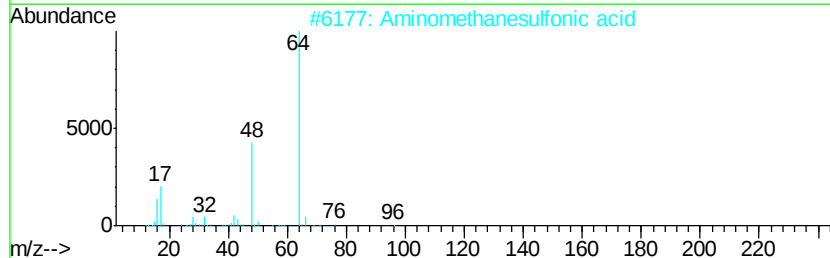
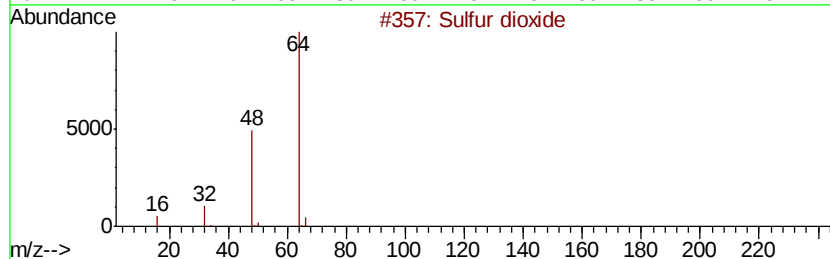
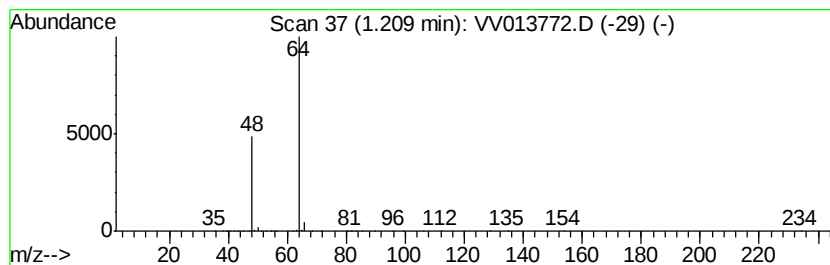
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Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T.    | EstConc   | Area                      | Relative to ISTD    | R.T.           |
|---------|-----------|---------------------------|---------------------|----------------|
| 1.21    | 6.87 ug/L | 1099950                   | 1,4-Difluorobenzene | 5.66           |
| Hit# of | 5         | Tentative ID              | MW MolForm          | CAS# Qual      |
| 1       |           | Sulfur dioxide            | 64 O2S              | 007446-09-5 83 |
| 2       |           | Aminomethanesulfonic acid | 111 CH5NO3S         | 013881-91-9 74 |
| 3       |           | L-Alanine, 3-sulfo-       | 169 C3H7NO5S        | 000498-40-8 9  |
| 4       |           | Aminomethanesulfonic acid | 111 CH5NO3S         | 013881-91-9 9  |
| 5       |           | Ethene, 1,1-difluoro-     | 64 C2H2F2           | 000075-38-7 4  |



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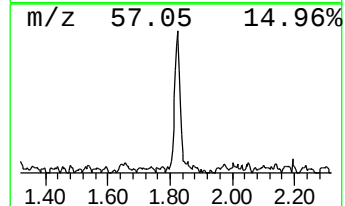
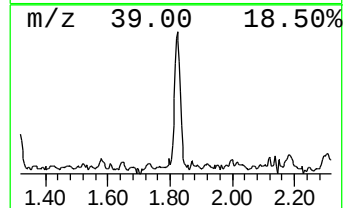
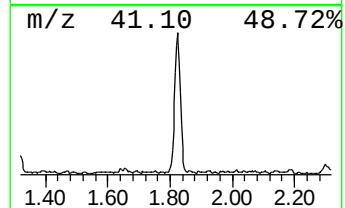
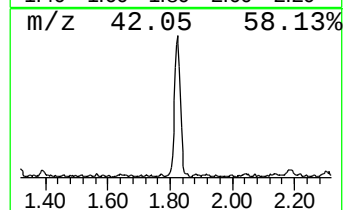
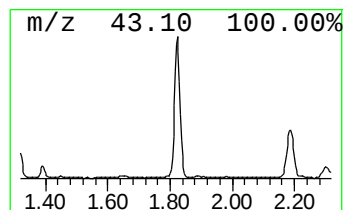
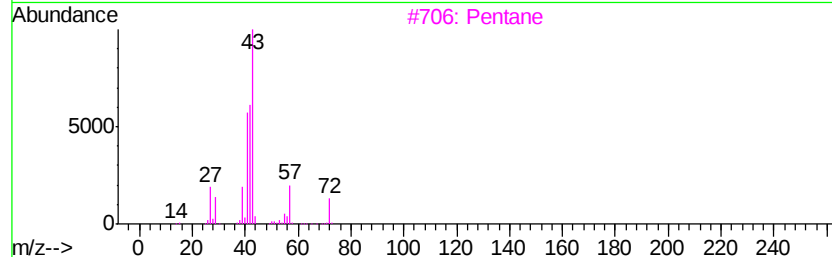
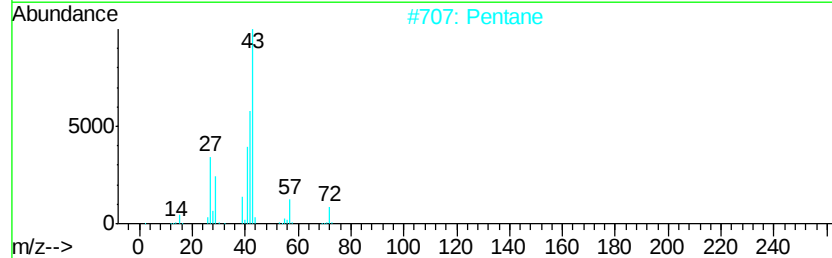
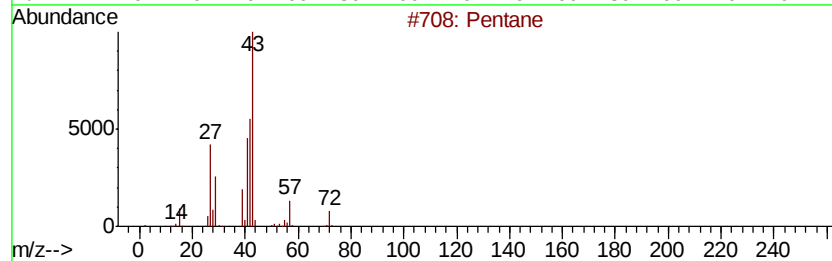
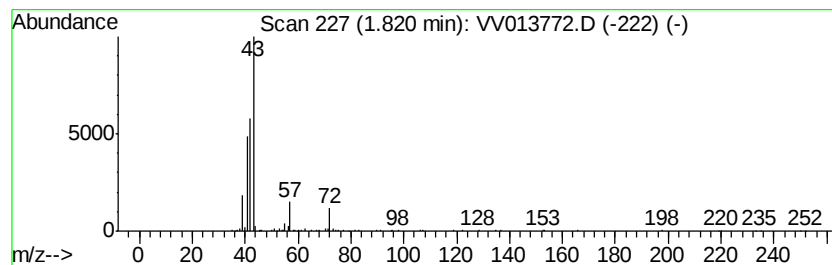
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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 1.82 | 0.67 ug/L | 108027 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Pentane           | 72 | C5H12   | 000109-66-0 | 80   |
| 2    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 80   |
| 3    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 64   |
| 4    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 59   |
| 5    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 36   |



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| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                      |      |         |       |          | #                     | RT   | Resp   | Conc |
| Sulfur dioxide       | 1.21 | 6.9     | ug/L  | 1099950  | 1                     | 5.66 | 800413 | 5.0  |
| (DEL) Alkane: Str... | 1.82 | 0.7     | ug/L  | 108027   | 1                     | 5.66 | 800413 | 5.0  |