

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU112018\  
 Data File : VU028276.D  
 Acq On : 20 Nov 2018 14:24  
 Operator : MD/SY  
 Sample : J5995-09RE  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FL3RE

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\_U\METHOD\SOMUTR111718WMA.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         | 1.302       | 35            | 40          | 56           | rVB2     | 38235          | 43886         | 4.77%           | 0.735%        |
| 2         | 1.402       | 62            | 71          | 81           | rBV2     | 422638         | 467873        | 50.87%          | 7.836%        |
| 3         | 1.685       | 149           | 159         | 174          | rBV      | 57791          | 84744         | 9.21%           | 1.419%        |
| 4         | 1.762       | 177           | 183         | 191          | rVB4     | 10370          | 12736         | 1.38%           | 0.213%        |
| 5         | 1.948       | 235           | 241         | 250          | rVB5     | 7521           | 10803         | 1.17%           | 0.181%        |
| 6         | 2.276       | 332           | 343         | 357          | rBV      | 97953          | 153303        | 16.67%          | 2.568%        |
| 7         | 2.787       | 495           | 502         | 514          | rVB4     | 6212           | 12186         | 1.32%           | 0.204%        |
| 8         | 3.003       | 549           | 569         | 592          | rBV2     | 302158         | 919722        | 100.00%         | 15.404%       |
| 9         | 3.447       | 694           | 707         | 720          | rVB2     | 22148          | 48507         | 5.27%           | 0.812%        |
| 10        | 4.083       | 890           | 905         | 928          | rVB4     | 20744          | 58230         | 6.33%           | 0.975%        |
| 11        | 4.221       | 928           | 948         | 980          | rBV2     | 157029         | 486214        | 52.87%          | 8.143%        |
| 12        | 4.649       | 1065          | 1081        | 1107         | rBV      | 82549          | 203042        | 22.08%          | 3.401%        |
| 13        | 5.340       | 1274          | 1296        | 1309         | rBV2     | 166670         | 468726        | 50.96%          | 7.851%        |
| 14        | 5.887       | 1452          | 1466        | 1491         | rBV      | 165149         | 329795        | 35.86%          | 5.524%        |
| 15        | 6.186       | 1545          | 1559        | 1574         | rBV3     | 11680          | 22765         | 2.48%           | 0.381%        |
| 16        | 6.334       | 1591          | 1605        | 1624         | rBV      | 120890         | 237250        | 25.80%          | 3.974%        |
| 17        | 7.231       | 1868          | 1884        | 1908         | rVB      | 54402          | 97998         | 10.66%          | 1.641%        |
| 18        | 7.565       | 1976          | 1988        | 2004         | rBV      | 195187         | 339074        | 36.87%          | 5.679%        |
| 19        | 7.643       | 2004          | 2012        | 2026         | rVB2     | 7044           | 13051         | 1.42%           | 0.219%        |
| 20        | 7.852       | 2068          | 2077        | 2094         | rBV2     | 30444          | 52280         | 5.68%           | 0.876%        |
| 21        | 8.318       | 2210          | 2222        | 2256         | rBV      | 349916         | 651136        | 70.80%          | 10.906%       |
| 22        | 9.089       | 2450          | 2462        | 2482         | rBV      | 247320         | 413451        | 44.95%          | 6.925%        |
| 23        | 10.433      | 2869          | 2880        | 2901         | rBV      | 88473          | 144602        | 15.72%          | 2.422%        |
| 24        | 11.482      | 3195          | 3206        | 3232         | rBV      | 228686         | 373822        | 40.65%          | 6.261%        |
| 25        | 11.861      | 3311          | 3324        | 3348         | rBV      | 192471         | 316092        | 34.37%          | 5.294%        |
| 26        | 12.974      | 3662          | 3670        | 3684         | rVB4     | 5260           | 9348          | 1.02%           | 0.157%        |

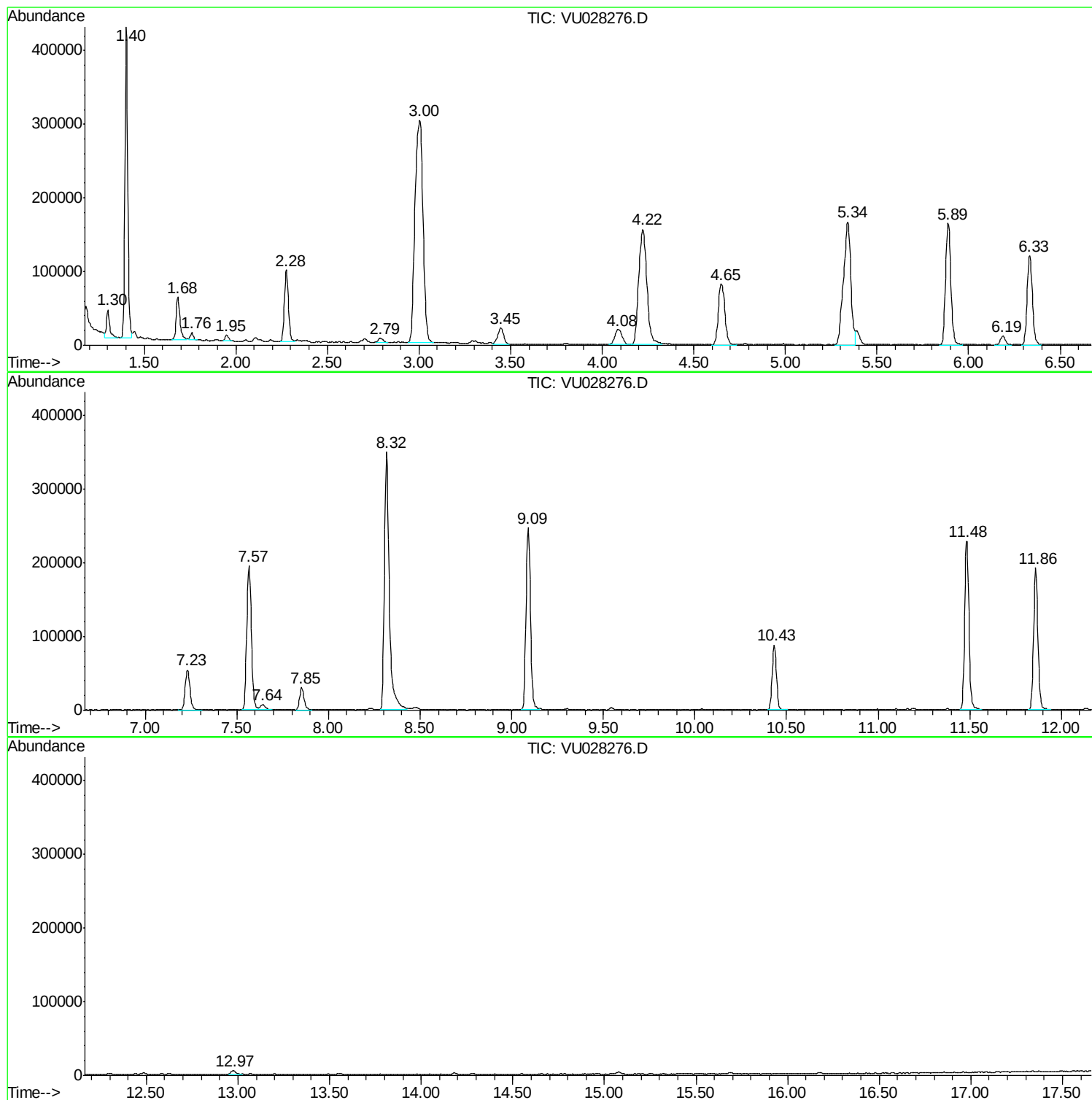
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
H0FL3RE

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_U\METHOD\SOMUTR111718WMA.M  
Quant Title : TRACE VOA SOM01.0

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



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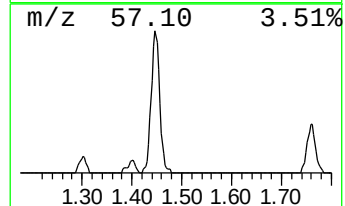
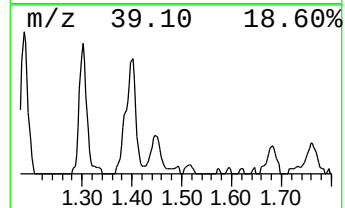
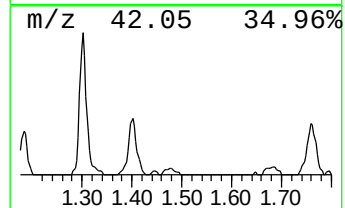
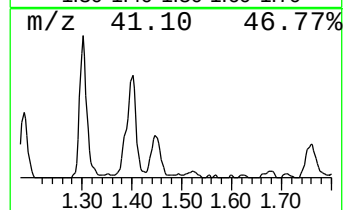
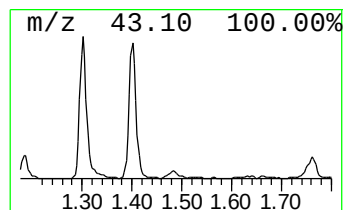
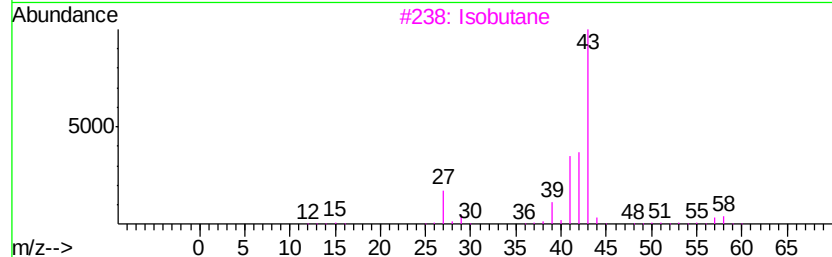
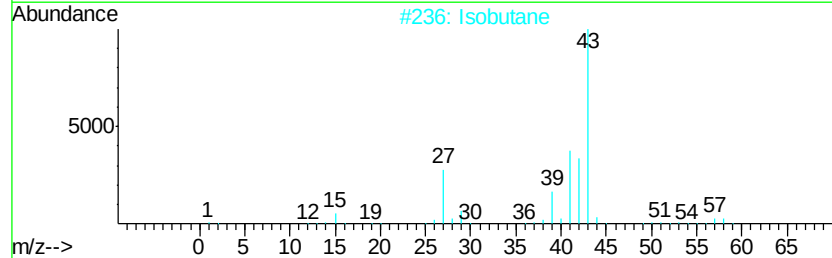
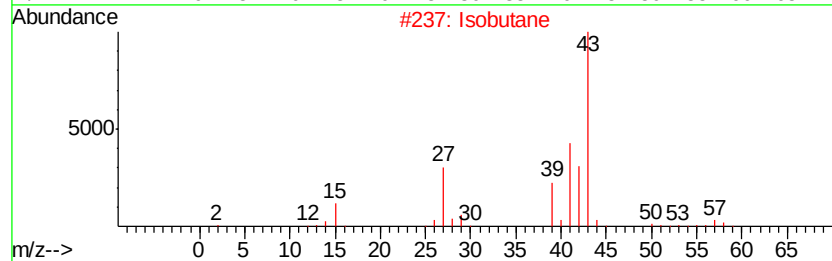
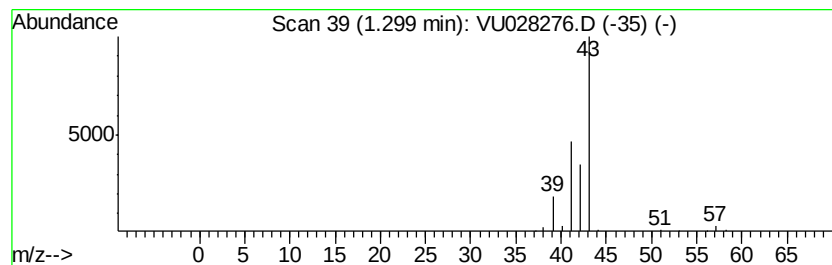
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TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.      | EstConc                    | Area  | Relative to ISTD    | R.T.        |      |
|-----------|----------------------------|-------|---------------------|-------------|------|
| 1.30      | 0.67 ug/L                  | 43886 | 1,4-Difluorobenzene | 5.89        |      |
| Hit# of 5 | Tentative ID               | MW    | MolForm             | CAS#        | Qual |
| 1         | Isobutane                  | 58    | C4H10               | 000075-28-5 | 50   |
| 2         | Isobutane                  | 58    | C4H10               | 000075-28-5 | 45   |
| 3         | Isobutane                  | 58    | C4H10               | 000075-28-5 | 39   |
| 4         | Isobutane                  | 58    | C4H10               | 000075-28-5 | 9    |
| 5         | Isopropylsulfonyl chloride | 142   | C3H7ClO2S           | 010147-37-2 | 4    |



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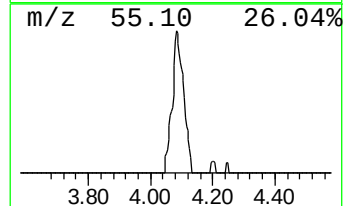
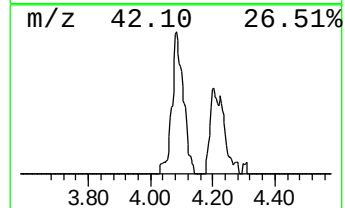
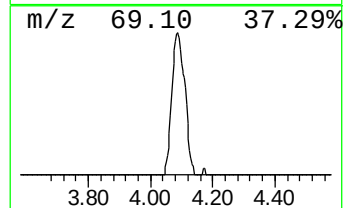
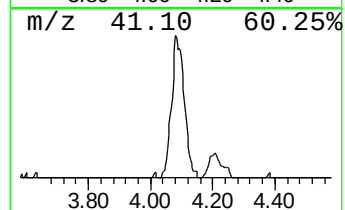
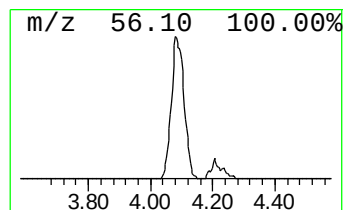
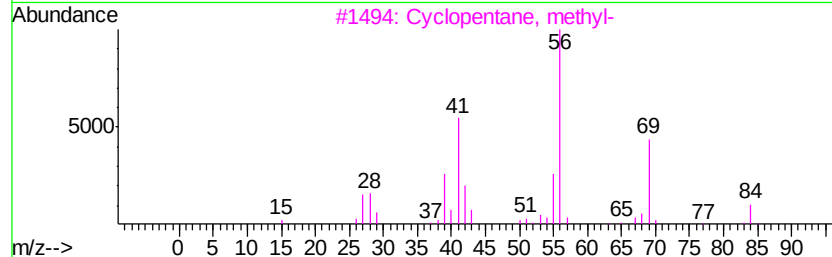
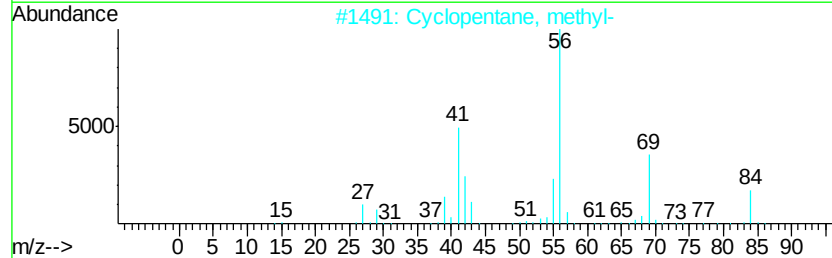
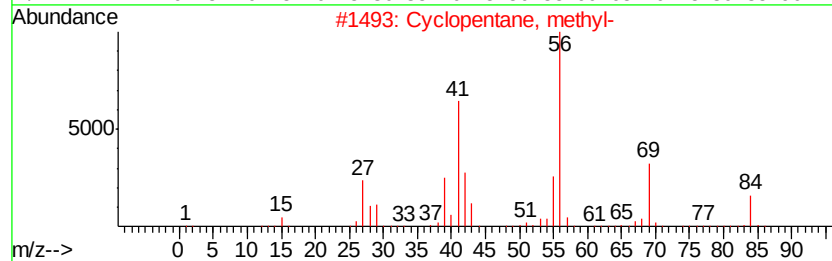
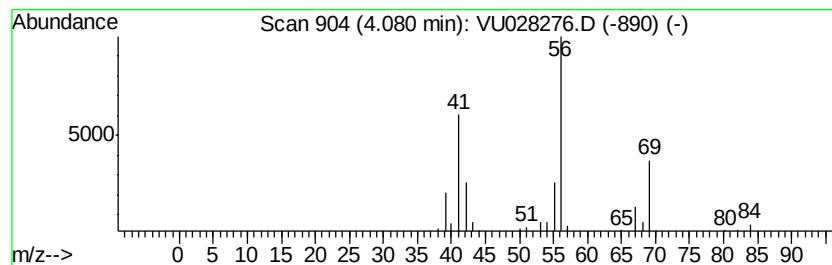
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Peak Number 2 (DEL) Alkane: Cyclic4.08 Concentration Rank 2

| R.T.      | EstConc               | Area  | Relative to ISTD    | R.T.        |      |
|-----------|-----------------------|-------|---------------------|-------------|------|
| 4.08      | 0.88 ug/L             | 58230 | 1,4-Difluorobenzene | 5.89        |      |
| Hit# of 5 | Tentative ID          | MW    | MolForm             | CAS#        | Qual |
| 1         | Cyclopentane, methyl- | 84    | C6H12               | 000096-37-7 | 72   |
| 2         | Cyclopentane, methyl- | 84    | C6H12               | 000096-37-7 | 72   |
| 3         | Cyclopentane, methyl- | 84    | C6H12               | 000096-37-7 | 72   |
| 4         | Cyclobutane, ethyl-   | 84    | C6H12               | 004806-61-5 | 59   |
| 5         | Cyclopropane, propyl- | 84    | C6H12               | 002415-72-7 | 50   |



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Quant Title : TRACE VOA SOM01.0

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

| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                      |      |         |       |          | #                     | RT   | Resp   | Conc |
| (DEL) Alkane: Str... | 1.30 | 0.7     | ug/L  | 43886    | 1                     | 5.89 | 329795 | 5.0  |
| (DEL) Alkane: Cyc... | 4.08 | 0.9     | ug/L  | 58230    | 1                     | 5.89 | 329795 | 5.0  |