

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040319\  
 Data File : VV010102.D  
 Acq On : 03 Apr 2019 20:14  
 Operator : SY/MD  
 Sample : K2148-13RE  
 Misc : 5.49G/10mL/MSVOA V/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5G0RE

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % 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\SOM2VLM040219S.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.209    | 33         | 37       | 48        | rVB   | 13483       | 15588      | 5.30%        | 0.736%     |
| 2      | 1.322    | 67         | 72       | 79        | rVB   | 37934       | 35338      | 12.02%       | 1.669%     |
| 3      | 1.579    | 147        | 152      | 161       | rVB   | 33680       | 39264      | 13.35%       | 1.855%     |
| 4      | 2.129    | 314        | 323      | 335       | rBV   | 88353       | 127361     | 43.31%       | 6.016%     |
| 5      | 2.296    | 372        | 375      | 376       | rBV2  | 779         | 390        | 0.13%        | 0.018%     |
| 6      | 2.438    | 417        | 419      | 423       | rBV3  | 569         | 417        | 0.14%        | 0.020%     |
| 7      | 2.537    | 440        | 450      | 467       | rVB   | 22214       | 37170      | 12.64%       | 1.756%     |
| 8      | 2.611    | 471        | 473      | 476       | rBV2  | 422         | 358        | 0.12%        | 0.017%     |
| 9      | 2.647    | 480        | 484      | 486       | rBV2  | 529         | 420        | 0.14%        | 0.020%     |
| 10     | 2.971    | 583        | 585      | 588       | rBV2  | 791         | 642        | 0.22%        | 0.030%     |
| 11     | 3.245    | 667        | 670      | 672       | rVB2  | 565         | 327        | 0.11%        | 0.015%     |
| 12     | 3.354    | 701        | 704      | 708       | rBV2  | 537         | 314        | 0.11%        | 0.015%     |
| 13     | 3.428    | 723        | 727      | 729       | rBV   | 545         | 369        | 0.13%        | 0.017%     |
| 14     | 3.505    | 747        | 751      | 753       | rBV2  | 416         | 348        | 0.12%        | 0.016%     |
| 15     | 3.682    | 802        | 806      | 810       | rVB2  | 366         | 389        | 0.13%        | 0.018%     |
| 16     | 3.936    | 874        | 885      | 900       | rBV2  | 10827       | 26666      | 9.07%        | 1.260%     |
| 17     | 4.139    | 944        | 948      | 952       | rBV3  | 527         | 503        | 0.17%        | 0.024%     |
| 18     | 4.164    | 954        | 956      | 959       | rVB2  | 625         | 272        | 0.09%        | 0.013%     |
| 19     | 4.203    | 963        | 968      | 969       | rBV3  | 445         | 343        | 0.12%        | 0.016%     |
| 20     | 4.402    | 1013       | 1030     | 1051      | rBV2  | 48744       | 124758     | 42.43%       | 5.893%     |
| 21     | 4.836    | 1161       | 1165     | 1166      | rBV   | 629         | 323        | 0.11%        | 0.015%     |
| 22     | 4.959    | 1201       | 1203     | 1207      | rBV2  | 492         | 342        | 0.12%        | 0.016%     |
| 23     | 5.097    | 1229       | 1246     | 1267      | rBV2  | 116000      | 294056     | 100.00%      | 13.891%    |
| 24     | 5.290    | 1303       | 1306     | 1309      | rBV   | 345         | 292        | 0.10%        | 0.014%     |
| 25     | 5.415    | 1342       | 1345     | 1349      | rBV2  | 328         | 292        | 0.10%        | 0.014%     |
| 26     | 5.486    | 1364       | 1367     | 1370      | rBV2  | 492         | 367        | 0.12%        | 0.017%     |
| 27     | 5.557    | 1386       | 1389     | 1392      | rBV2  | 685         | 386        | 0.13%        | 0.018%     |
| 28     | 5.666    | 1410       | 1423     | 1440      | rBV   | 92194       | 187178     | 63.65%       | 8.842%     |
| 29     | 5.772    | 1452       | 1456     | 1461      | rVB5  | 1137        | 1199       | 0.41%        | 0.057%     |
| 30     | 5.862    | 1479       | 1484     | 1489      | rBV3  | 764         | 706        | 0.24%        | 0.033%     |
| 31     | 5.891    | 1489       | 1493     | 1497      | rVB2  | 692         | 530        | 0.18%        | 0.025%     |
| 32     | 5.930    | 1504       | 1505     | 1507      | rBV   | 679         | 339        | 0.12%        | 0.016%     |
| 33     | 6.119    | 1550       | 1564     | 1583      | rBV3  | 67292       | 140587     | 47.81%       | 6.641%     |
| 34     | 6.357    | 1636       | 1638     | 1642      | rBV2  | 529         | 320        | 0.11%        | 0.015%     |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 6.412  | 1652 | 1655 | 1659 | rBV  | 453    | 279    | 0.09%  | 0.013%  |
| 36 | 6.483  | 1673 | 1677 | 1681 | rBV2 | 458    | 374    | 0.13%  | 0.018%  |
| 37 | 6.589  | 1708 | 1710 | 1715 | rVB3 | 585    | 389    | 0.13%  | 0.018%  |
| 38 | 6.769  | 1762 | 1766 | 1772 | rBV3 | 609    | 623    | 0.21%  | 0.029%  |
| 39 | 6.852  | 1789 | 1792 | 1795 | rVV  | 416    | 283    | 0.10%  | 0.013%  |
| 40 | 6.884  | 1798 | 1802 | 1805 | rVB3 | 645    | 429    | 0.15%  | 0.020%  |
| 41 | 6.926  | 1811 | 1815 | 1818 | rBV2 | 402    | 343    | 0.12%  | 0.016%  |
| 42 | 7.029  | 1836 | 1847 | 1862 | rBV3 | 30074  | 55669  | 18.93% | 2.630%  |
| 43 | 7.129  | 1873 | 1878 | 1879 | rBV3 | 2582   | 2174   | 0.74%  | 0.103%  |
| 44 | 7.235  | 1909 | 1911 | 1917 | rVB2 | 386    | 330    | 0.11%  | 0.016%  |
| 45 | 7.264  | 1917 | 1920 | 1923 | rBV  | 479    | 347    | 0.12%  | 0.016%  |
| 46 | 7.299  | 1928 | 1931 | 1933 | rBV4 | 571    | 383    | 0.13%  | 0.018%  |
| 47 | 7.360  | 1938 | 1950 | 1971 | rBV  | 126125 | 230281 | 78.31% | 10.878% |
| 48 | 7.540  | 2003 | 2006 | 2009 | rBV2 | 541    | 413    | 0.14%  | 0.020%  |
| 49 | 7.608  | 2022 | 2027 | 2029 | rBV  | 376    | 369    | 0.13%  | 0.017%  |
| 50 | 7.666  | 2035 | 2045 | 2058 | rBV3 | 20429  | 34524  | 11.74% | 1.631%  |
| 51 | 7.901  | 2115 | 2118 | 2122 | rVB2 | 686    | 424    | 0.14%  | 0.020%  |
| 52 | 7.958  | 2132 | 2136 | 2137 | rBV2 | 712    | 451    | 0.15%  | 0.021%  |
| 53 | 8.019  | 2148 | 2155 | 2166 | rVB8 | 5023   | 8316   | 2.83%  | 0.393%  |
| 54 | 8.135  | 2180 | 2191 | 2205 | rBV  | 25382  | 52527  | 17.86% | 2.481%  |
| 55 | 8.335  | 2251 | 2253 | 2258 | rVB3 | 544    | 386    | 0.13%  | 0.018%  |
| 56 | 8.582  | 2328 | 2330 | 2333 | rBV3 | 481    | 273    | 0.09%  | 0.013%  |
| 57 | 8.698  | 2363 | 2366 | 2367 | rVV2 | 485    | 278    | 0.09%  | 0.013%  |
| 58 | 8.714  | 2367 | 2371 | 2373 | rVV2 | 494    | 380    | 0.13%  | 0.018%  |
| 59 | 8.730  | 2373 | 2376 | 2380 | rVV2 | 381    | 325    | 0.11%  | 0.015%  |
| 60 | 8.778  | 2387 | 2391 | 2394 | rVB2 | 760    | 461    | 0.16%  | 0.022%  |
| 61 | 8.897  | 2416 | 2428 | 2450 | rBV  | 129108 | 235127 | 79.96% | 11.107% |
| 62 | 9.106  | 2491 | 2493 | 2496 | rBV2 | 371    | 273    | 0.09%  | 0.013%  |
| 63 | 9.283  | 2544 | 2548 | 2550 | rBV  | 489    | 327    | 0.11%  | 0.015%  |
| 64 | 9.412  | 2584 | 2588 | 2590 | rBV  | 494    | 292    | 0.10%  | 0.014%  |
| 65 | 9.508  | 2616 | 2618 | 2621 | rBV2 | 641    | 391    | 0.13%  | 0.018%  |
| 66 | 9.675  | 2666 | 2670 | 2673 | rBV3 | 338    | 280    | 0.10%  | 0.013%  |
| 67 | 9.839  | 2718 | 2721 | 2723 | rVB2 | 591    | 276    | 0.09%  | 0.013%  |
| 68 | 10.007 | 2770 | 2773 | 2777 | rVB2 | 648    | 399    | 0.14%  | 0.019%  |
| 69 | 10.129 | 2808 | 2811 | 2817 | rBV2 | 446    | 520    | 0.18%  | 0.025%  |
| 70 | 10.261 | 2842 | 2852 | 2868 | rBV  | 66966  | 110426 | 37.55% | 5.216%  |
| 71 | 10.328 | 2871 | 2873 | 2877 | rVB2 | 418    | 296    | 0.10%  | 0.014%  |

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Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |       |        |        |        |
|-----|--------|------|------|------|------|-------|--------|--------|--------|
| 72  | 10.408 | 2896 | 2898 | 2899 | rBV2 | 722   | 288    | 0.10%  | 0.014% |
| 73  | 10.489 | 2920 | 2923 | 2926 | rBV2 | 492   | 301    | 0.10%  | 0.014% |
| 74  | 10.547 | 2939 | 2941 | 2947 | rVB  | 461   | 309    | 0.11%  | 0.015% |
| 75  | 10.585 | 2949 | 2953 | 2956 | rBV2 | 453   | 395    | 0.13%  | 0.019% |
| 76  | 10.958 | 3065 | 3069 | 3072 | rVB5 | 760   | 510    | 0.17%  | 0.024% |
| 77  | 11.084 | 3105 | 3108 | 3110 | rBV2 | 433   | 273    | 0.09%  | 0.013% |
| 78  | 11.187 | 3137 | 3140 | 3148 | rVB4 | 990   | 888    | 0.30%  | 0.042% |
| 79  | 11.299 | 3163 | 3175 | 3194 | rVB2 | 85756 | 164972 | 56.10% | 7.793% |
| 80  | 11.367 | 3194 | 3196 | 3201 | rBV  | 428   | 370    | 0.13%  | 0.017% |
| 81  | 11.572 | 3256 | 3260 | 3263 | rBV4 | 568   | 424    | 0.14%  | 0.020% |
| 82  | 11.675 | 3281 | 3292 | 3308 | rVB2 | 91441 | 163090 | 55.46% | 7.704% |
| 83  | 11.974 | 3379 | 3385 | 3386 | rBV3 | 530   | 555    | 0.19%  | 0.026% |
| 84  | 12.096 | 3421 | 3423 | 3426 | rBV2 | 633   | 466    | 0.16%  | 0.022% |
| 85  | 12.174 | 3445 | 3447 | 3449 | rBV  | 583   | 315    | 0.11%  | 0.015% |
| 86  | 12.370 | 3505 | 3508 | 3512 | rVB2 | 687   | 432    | 0.15%  | 0.020% |
| 87  | 12.399 | 3512 | 3517 | 3522 | rBV2 | 473   | 455    | 0.15%  | 0.021% |
| 88  | 12.534 | 3556 | 3559 | 3561 | rBV2 | 519   | 275    | 0.09%  | 0.013% |
| 89  | 12.736 | 3619 | 3622 | 3625 | rBV2 | 530   | 326    | 0.11%  | 0.015% |
| 90  | 12.785 | 3634 | 3637 | 3639 | rBV  | 408   | 270    | 0.09%  | 0.013% |
| 91  | 12.875 | 3663 | 3665 | 3670 | rBV  | 405   | 318    | 0.11%  | 0.015% |
| 92  | 12.977 | 3694 | 3697 | 3700 | rBV3 | 418   | 410    | 0.14%  | 0.019% |
| 93  | 13.042 | 3713 | 3717 | 3723 | rBV3 | 403   | 396    | 0.13%  | 0.019% |
| 94  | 13.209 | 3766 | 3769 | 3772 | rBV2 | 472   | 413    | 0.14%  | 0.020% |
| 95  | 13.241 | 3777 | 3779 | 3781 | rBV  | 477   | 298    | 0.10%  | 0.014% |
| 96  | 13.598 | 3887 | 3890 | 3894 | rBV3 | 504   | 487    | 0.17%  | 0.023% |
| 97  | 14.064 | 4031 | 4035 | 4038 | rBV2 | 384   | 355    | 0.12%  | 0.017% |
| 98  | 14.302 | 4106 | 4109 | 4112 | rBV2 | 676   | 420    | 0.14%  | 0.020% |
| 99  | 14.325 | 4114 | 4116 | 4120 | rBV3 | 729   | 461    | 0.16%  | 0.022% |
| 100 | 15.907 | 4606 | 4608 | 4611 | rBV2 | 1151  | 649    | 0.22%  | 0.031% |

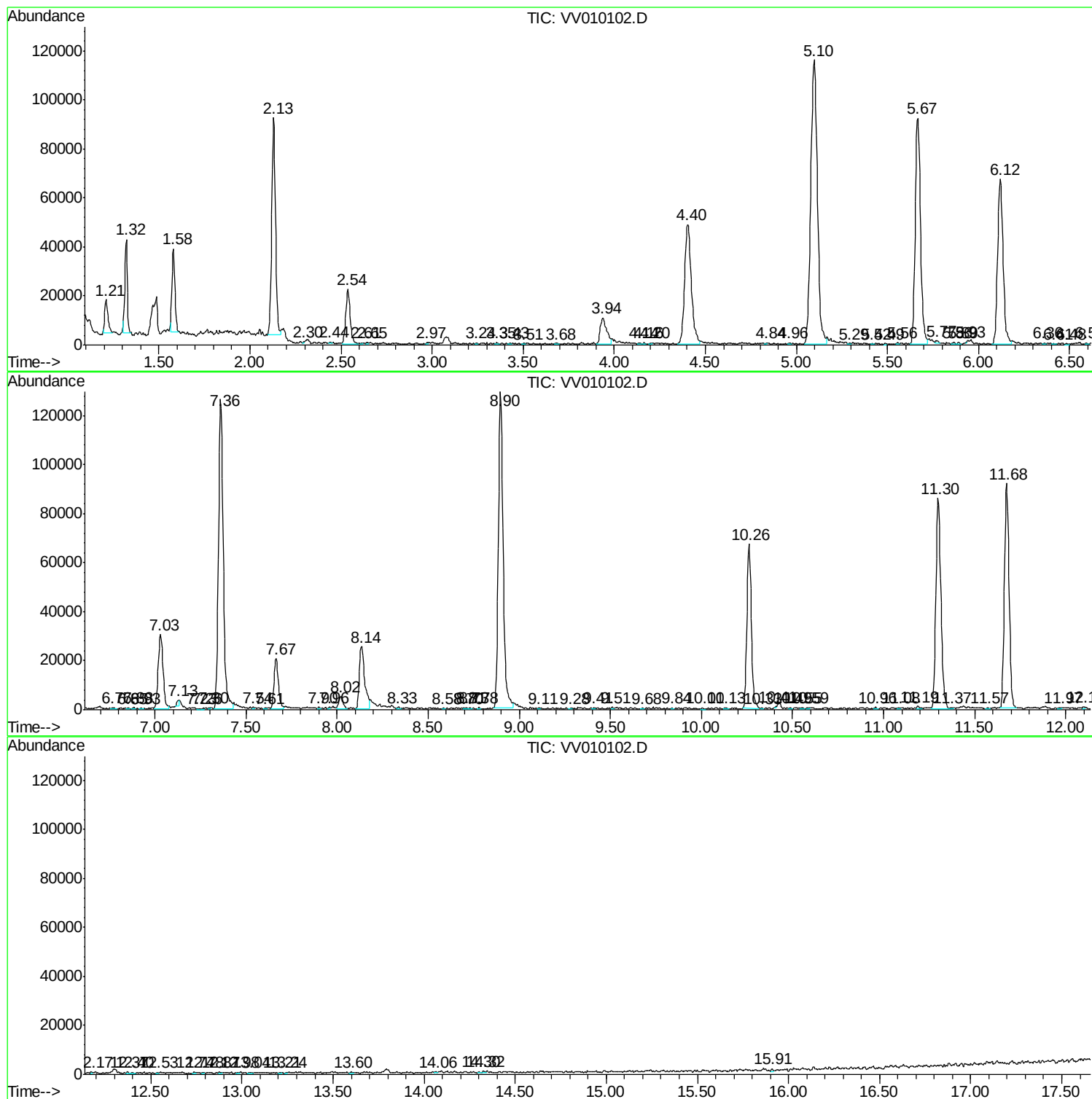
Sum of corrected areas: 2116913

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV040319\  
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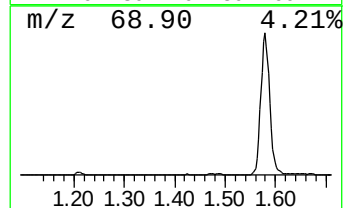
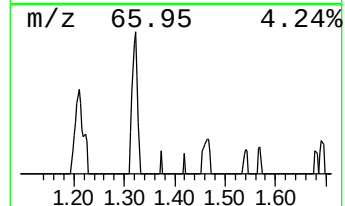
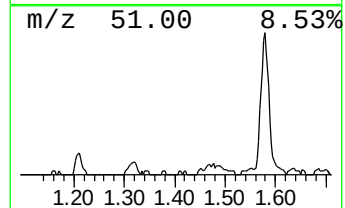
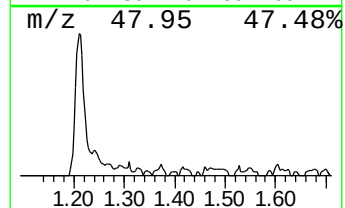
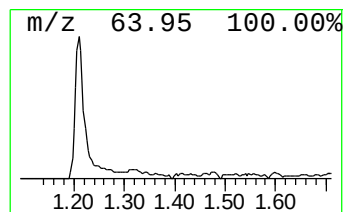
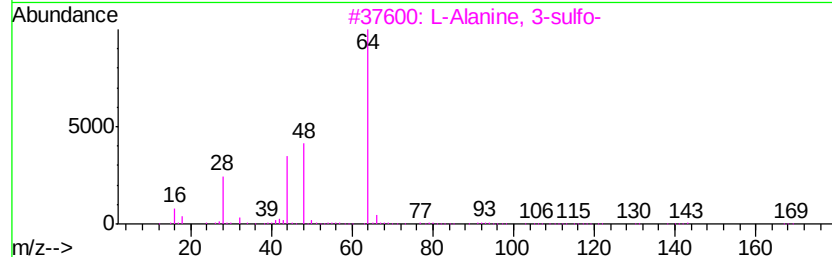
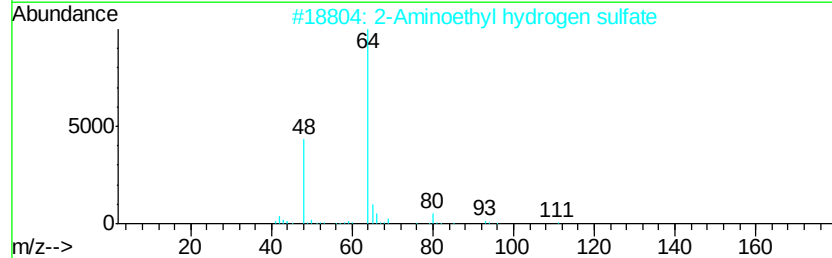
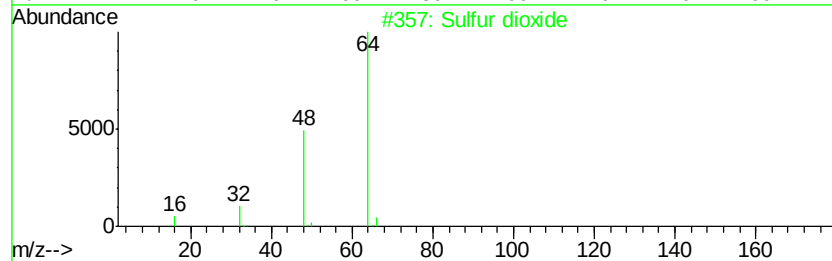
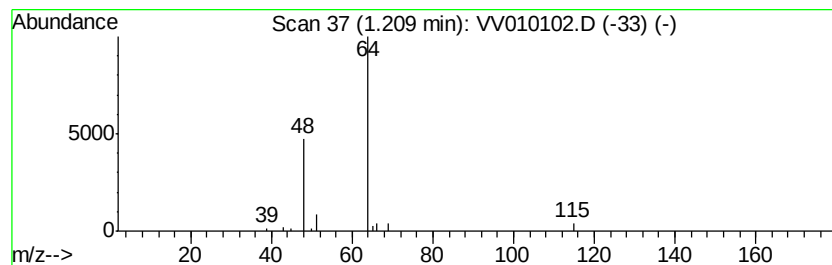
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Quant Title : VOC Analysis

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

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Peak Number 1 Sulfur dioxide Concentration Rank 2

| R.T.    | EstConc   | Area                                | Relative to ISTD    | R.T.           |
|---------|-----------|-------------------------------------|---------------------|----------------|
| 1.21    | 2.08 ug/L | 15588                               | 1,4-Difluorobenzene | 5.67           |
| Hit# of | 5         | Tentative ID                        | MW MolForm          | CAS# Qual      |
| 1       |           | Sulfur dioxide                      | 64 O2S              | 007446-09-5 74 |
| 2       |           | 2-Aminoethyl hydrogen sulfate       | 141 C2H7N04S        | 000926-39-6 64 |
| 3       |           | L-Alanine, 3-sulfo-                 | 169 C3H7N05S        | 000498-40-8 9  |
| 4       |           | (N-(-2-Acetamido))-2-aminoethane... | 182 C4H10N2O4S      | 007365-82-4 9  |
| 5       |           | Ethyl Chloride                      | 64 C2H5Cl           | 000075-00-3 7  |



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TIC Library : C:\DATABASE\NIST11.L  
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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                  |      |         |       |          | #                     | RT   | Resp   | Conc |
| Sulfur dioxide   | 1.21 | 2.1     | ug/L  | 15588    | 1                     | 5.67 | 187178 | 25.0 |