

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102619\  
 Data File : VU035520.D  
 Acq On : 26 Oct 2019 15:58  
 Operator : JC/SP  
 Sample : K5537-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

## 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\_U\METHOD\SOMULM102619WMA.M  
 Title : VOC Analysis

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         | 1.617       | 79            | 86          | 98           | rBV      | 338474         | 369969        | 15.54%          | 2.035%        |
| 2         | 1.935       | 176           | 185         | 202          | rVB      | 267661         | 355140        | 14.92%          | 1.954%        |
| 3         | 2.597       | 378           | 391         | 409          | rBV      | 480821         | 806177        | 33.87%          | 4.435%        |
| 4         | 2.826       | 458           | 462         | 469          | rVB2     | 3646           | 4601          | 0.19%           | 0.025%        |
| 5         | 2.993       | 511           | 514         | 517          | rBV4     | 832            | 569           | 0.02%           | 0.003%        |
| 6         | 3.121       | 551           | 554         | 558          | rBV3     | 790            | 634           | 0.03%           | 0.003%        |
| 7         | 3.144       | 558           | 561         | 563          | rVB      | 671            | 393           | 0.02%           | 0.002%        |
| 8         | 3.160       | 563           | 566         | 568          | rBV2     | 680            | 420           | 0.02%           | 0.002%        |
| 9         | 3.231       | 575           | 588         | 604          | rVV      | 17106          | 38317         | 1.61%           | 0.211%        |
| 10        | 3.311       | 611           | 613         | 616          | rVB3     | 489            | 284           | 0.01%           | 0.002%        |
| 11        | 3.375       | 628           | 633         | 635          | rBV4     | 1263           | 1116          | 0.05%           | 0.006%        |
| 12        | 3.482       | 662           | 666         | 667          | rBV2     | 384            | 298           | 0.01%           | 0.002%        |
| 13        | 3.562       | 687           | 691         | 694          | rBV2     | 789            | 566           | 0.02%           | 0.003%        |
| 14        | 3.613       | 704           | 707         | 708          | rBV      | 630            | 380           | 0.02%           | 0.002%        |
| 15        | 3.713       | 735           | 738         | 742          | rBV3     | 649            | 446           | 0.02%           | 0.002%        |
| 16        | 3.755       | 748           | 751         | 754          | rVB      | 660            | 439           | 0.02%           | 0.002%        |
| 17        | 3.774       | 754           | 757         | 760          | rBV2     | 417            | 305           | 0.01%           | 0.002%        |
| 18        | 3.983       | 818           | 822         | 825          | rVB3     | 784            | 493           | 0.02%           | 0.003%        |
| 19        | 4.131       | 865           | 868         | 870          | rVV4     | 559            | 420           | 0.02%           | 0.002%        |
| 20        | 4.154       | 873           | 875         | 880          | rVB4     | 409            | 351           | 0.01%           | 0.002%        |
| 21        | 4.195       | 885           | 888         | 890          | rVV3     | 441            | 284           | 0.01%           | 0.002%        |
| 22        | 4.446       | 962           | 966         | 973          | rVB3     | 438            | 475           | 0.02%           | 0.003%        |
| 23        | 4.514       | 984           | 987         | 990          | rVB2     | 554            | 289           | 0.01%           | 0.002%        |
| 24        | 4.539       | 990           | 995         | 998          | rBV2     | 454            | 333           | 0.01%           | 0.002%        |
| 25        | 4.559       | 998           | 1001        | 1005         | rVB3     | 541            | 320           | 0.01%           | 0.002%        |
| 26        | 4.588       | 1008          | 1010        | 1012         | rBV      | 525            | 293           | 0.01%           | 0.002%        |
| 27        | 4.694       | 1025          | 1043        | 1067         | rBV      | 221119         | 545521        | 22.92%          | 3.001%        |
| 28        | 5.115       | 1153          | 1174        | 1202         | rBV      | 419145         | 920826        | 38.68%          | 5.066%        |
| 29        | 5.417       | 1262          | 1268        | 1270         | rBV2     | 1590           | 1193          | 0.05%           | 0.007%        |
| 30        | 5.665       | 1343          | 1345        | 1348         | rVB2     | 561            | 258           | 0.01%           | 0.001%        |
| 31        | 5.771       | 1355          | 1378        | 1407         | rBV2     | 906107         | 2380443       | 100.00%         | 13.096%       |
| 32        | 6.054       | 1463          | 1466        | 1468         | rBV3     | 1240           | 855           | 0.04%           | 0.005%        |
| 33        | 6.170       | 1469          | 1502        | 1503         | rBV2     | 36062          | 127487        | 5.36%           | 0.701%        |
| 34        | 6.292       | 1530          | 1540        | 1584         | rVB      | 868114         | 1917921       | 80.57%          | 10.552%       |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102619WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 6.735  | 1663 | 1678 | 1696 | rBV  | 544810  | 1080892 | 45.41% | 5.947%  |
| 36 | 7.092  | 1779 | 1789 | 1804 | rBV2 | 22420   | 41736   | 1.75%  | 0.230%  |
| 37 | 7.604  | 1935 | 1948 | 1976 | rBV  | 292067  | 542535  | 22.79% | 2.985%  |
| 38 | 7.935  | 2036 | 2051 | 2067 | rBV  | 1065735 | 1875175 | 78.77% | 10.316% |
| 39 | 8.214  | 2126 | 2138 | 2160 | rBV  | 197351  | 372099  | 15.63% | 2.047%  |
| 40 | 8.436  | 2204 | 2207 | 2211 | rBV4 | 677     | 502     | 0.02%  | 0.003%  |
| 41 | 8.507  | 2220 | 2229 | 2239 | rBV6 | 3489    | 6418    | 0.27%  | 0.035%  |
| 42 | 8.591  | 2247 | 2255 | 2262 | rBV8 | 2570    | 4246    | 0.18%  | 0.023%  |
| 43 | 8.681  | 2270 | 2283 | 2332 | rBV  | 382250  | 1116113 | 46.89% | 6.140%  |
| 44 | 9.050  | 2396 | 2398 | 2402 | rBV2 | 415     | 291     | 0.01%  | 0.002%  |
| 45 | 9.131  | 2421 | 2423 | 2427 | rBV4 | 514     | 374     | 0.02%  | 0.002%  |
| 46 | 9.153  | 2427 | 2430 | 2432 | rBV3 | 600     | 400     | 0.02%  | 0.002%  |
| 47 | 9.247  | 2451 | 2459 | 2473 | rBV6 | 6219    | 13296   | 0.56%  | 0.073%  |
| 48 | 9.298  | 2473 | 2475 | 2478 | rVB4 | 754     | 400     | 0.02%  | 0.002%  |
| 49 | 9.353  | 2486 | 2492 | 2494 | rBV4 | 810     | 851     | 0.04%  | 0.005%  |
| 50 | 9.449  | 2508 | 2522 | 2559 | rBV  | 1039547 | 1868121 | 78.48% | 10.278% |
| 51 | 9.604  | 2562 | 2570 | 2577 | rVB3 | 6405    | 9743    | 0.41%  | 0.054%  |
| 52 | 9.722  | 2597 | 2607 | 2621 | rVV2 | 12434   | 21714   | 0.91%  | 0.119%  |
| 53 | 9.870  | 2650 | 2653 | 2654 | rBV2 | 503     | 249     | 0.01%  | 0.001%  |
| 54 | 9.922  | 2666 | 2669 | 2672 | rBV3 | 507     | 385     | 0.02%  | 0.002%  |
| 55 | 9.973  | 2683 | 2685 | 2688 | rVB2 | 814     | 429     | 0.02%  | 0.002%  |
| 56 | 10.067 | 2712 | 2714 | 2718 | rVB2 | 410     | 272     | 0.01%  | 0.001%  |
| 57 | 10.128 | 2718 | 2733 | 2744 | rBV5 | 10911   | 22099   | 0.93%  | 0.122%  |
| 58 | 10.202 | 2754 | 2756 | 2761 | rVB3 | 551     | 431     | 0.02%  | 0.002%  |
| 59 | 10.230 | 2761 | 2765 | 2769 | rBV3 | 436     | 479     | 0.02%  | 0.003%  |
| 60 | 10.288 | 2780 | 2783 | 2786 | rVV3 | 877     | 660     | 0.03%  | 0.004%  |
| 61 | 10.311 | 2786 | 2790 | 2796 | rVB3 | 521     | 568     | 0.02%  | 0.003%  |
| 62 | 10.366 | 2803 | 2807 | 2809 | rBV3 | 400     | 316     | 0.01%  | 0.002%  |
| 63 | 10.436 | 2826 | 2829 | 2831 | rVV  | 402     | 260     | 0.01%  | 0.001%  |
| 64 | 10.465 | 2834 | 2838 | 2841 | rBV4 | 533     | 352     | 0.01%  | 0.002%  |
| 65 | 10.510 | 2847 | 2852 | 2861 | rVB6 | 2149    | 3020    | 0.13%  | 0.017%  |
| 66 | 10.552 | 2861 | 2865 | 2868 | rVB2 | 590     | 372     | 0.02%  | 0.002%  |
| 67 | 10.697 | 2907 | 2910 | 2915 | rVB3 | 513     | 392     | 0.02%  | 0.002%  |
| 68 | 10.787 | 2925 | 2938 | 2956 | rBV  | 639018  | 1116798 | 46.92% | 6.144%  |
| 69 | 10.935 | 2979 | 2984 | 2993 | rVB4 | 1862    | 2622    | 0.11%  | 0.014%  |
| 70 | 10.980 | 2996 | 2998 | 3002 | rBV3 | 646     | 397     | 0.02%  | 0.002%  |
| 71 | 11.025 | 3004 | 3012 | 3016 | rBV4 | 4335    | 5857    | 0.25%  | 0.032%  |

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Filtering: 5  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102619WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 11.118 | 3033 | 3041 | 3052 | rBV3 | 4715   | 7665    | 0.32%  | 0.042% |
| 73  | 11.275 | 3083 | 3090 | 3096 | rVV7 | 2110   | 2971    | 0.12%  | 0.016% |
| 74  | 11.320 | 3099 | 3104 | 3110 | rVB3 | 2453   | 2647    | 0.11%  | 0.015% |
| 75  | 11.433 | 3136 | 3139 | 3142 | rBV3 | 758    | 556     | 0.02%  | 0.003% |
| 76  | 11.497 | 3148 | 3159 | 3174 | rVB3 | 16414  | 27732   | 1.16%  | 0.153% |
| 77  | 11.558 | 3175 | 3178 | 3182 | rVB2 | 370    | 296     | 0.01%  | 0.002% |
| 78  | 11.632 | 3198 | 3201 | 3204 | rBV4 | 387    | 289     | 0.01%  | 0.002% |
| 79  | 11.771 | 3238 | 3244 | 3252 | rVV6 | 3372   | 4979    | 0.21%  | 0.027% |
| 80  | 11.841 | 3252 | 3266 | 3282 | rVV  | 709882 | 1237929 | 52.00% | 6.811% |
| 81  | 11.922 | 3284 | 3291 | 3300 | rVB  | 7561   | 11097   | 0.47%  | 0.061% |
| 82  | 11.957 | 3300 | 3302 | 3305 | rBV  | 490    | 354     | 0.01%  | 0.002% |
| 83  | 12.121 | 3345 | 3353 | 3359 | rBV5 | 3357   | 4504    | 0.19%  | 0.025% |
| 84  | 12.221 | 3370 | 3384 | 3402 | rBV  | 732824 | 1236675 | 51.95% | 6.804% |
| 85  | 12.391 | 3433 | 3437 | 3443 | rBV4 | 726    | 974     | 0.04%  | 0.005% |
| 86  | 12.491 | 3464 | 3468 | 3473 | rBV4 | 1515   | 1773    | 0.07%  | 0.010% |
| 87  | 12.597 | 3495 | 3501 | 3509 | rVB3 | 2547   | 3746    | 0.16%  | 0.021% |
| 88  | 12.639 | 3509 | 3514 | 3519 | rBV4 | 859    | 997     | 0.04%  | 0.005% |
| 89  | 12.703 | 3529 | 3534 | 3536 | rBV3 | 1452   | 1336    | 0.06%  | 0.007% |
| 90  | 12.992 | 3615 | 3624 | 3631 | rBV7 | 2375   | 4332    | 0.18%  | 0.024% |
| 91  | 13.054 | 3638 | 3643 | 3649 | rVB5 | 2631   | 3014    | 0.13%  | 0.017% |
| 92  | 13.179 | 3679 | 3682 | 3684 | rBV2 | 507    | 344     | 0.01%  | 0.002% |
| 93  | 13.246 | 3696 | 3703 | 3708 | rVV4 | 2190   | 3027    | 0.13%  | 0.017% |
| 94  | 13.288 | 3713 | 3716 | 3720 | rBV3 | 592    | 618     | 0.03%  | 0.003% |
| 95  | 13.317 | 3720 | 3725 | 3730 | rVV7 | 994    | 1133    | 0.05%  | 0.006% |
| 96  | 13.478 | 3766 | 3775 | 3784 | rBV6 | 4415   | 6783    | 0.28%  | 0.037% |
| 97  | 13.591 | 3807 | 3810 | 3813 | rBV2 | 655    | 426     | 0.02%  | 0.002% |
| 98  | 13.648 | 3826 | 3828 | 3832 | rVB2 | 1320   | 757     | 0.03%  | 0.004% |
| 99  | 14.108 | 3963 | 3971 | 3982 | rVB2 | 12867  | 20731   | 0.87%  | 0.114% |
| 100 | 14.259 | 4016 | 4018 | 4020 | rBV2 | 647    | 304     | 0.01%  | 0.002% |

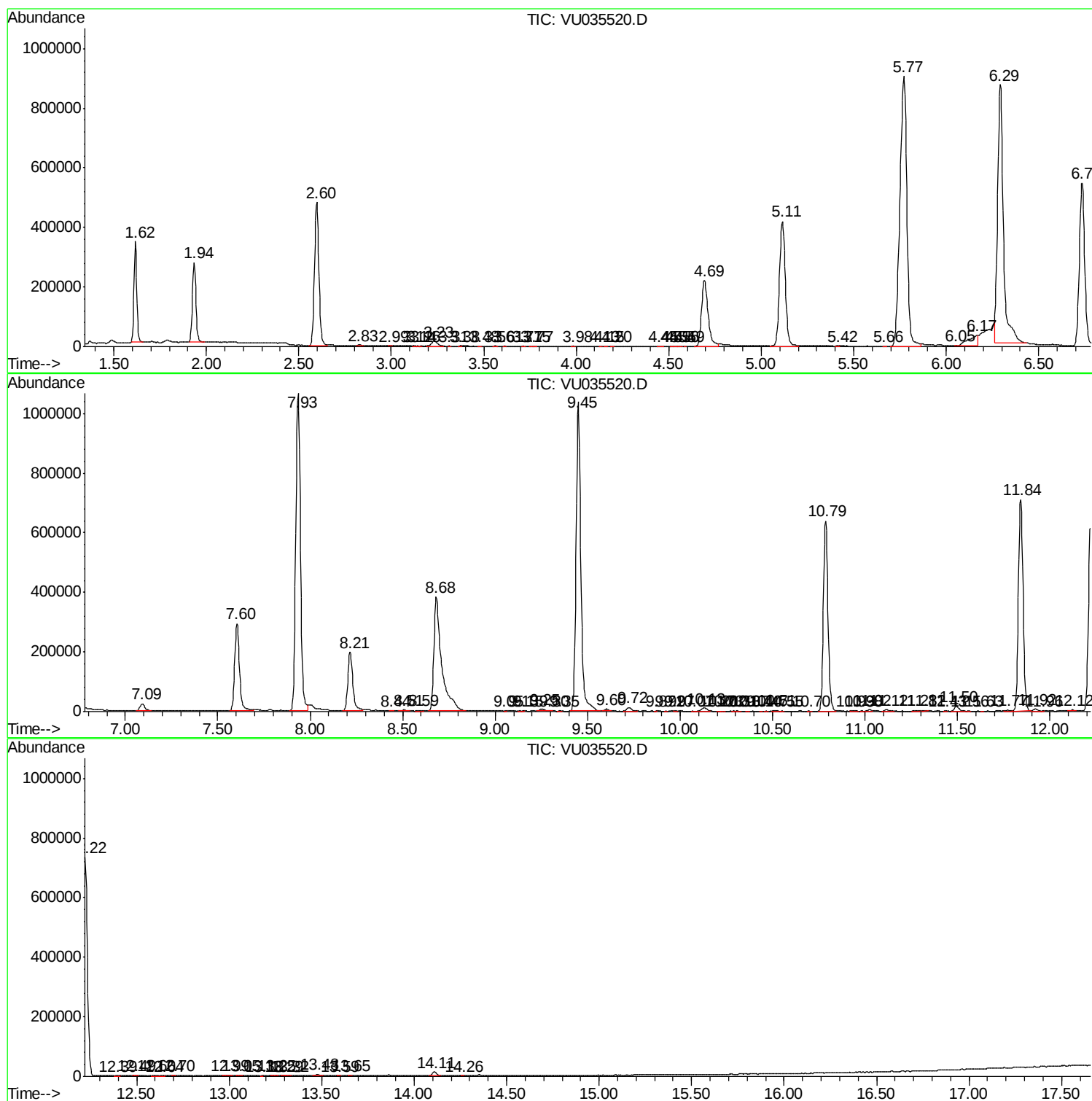
Sum of corrected areas: 18176669

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102619WMA.M  
Quant Title : VOC Analysis

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



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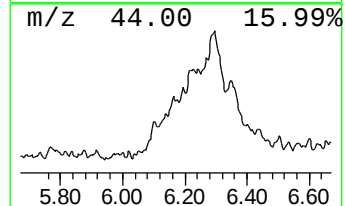
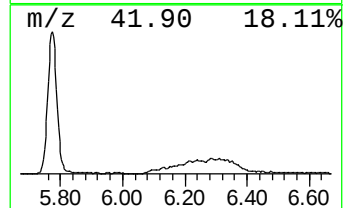
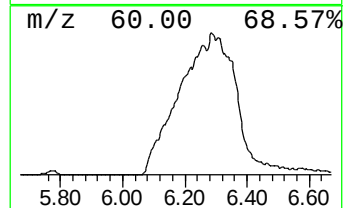
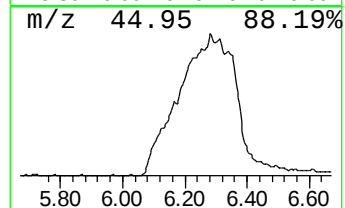
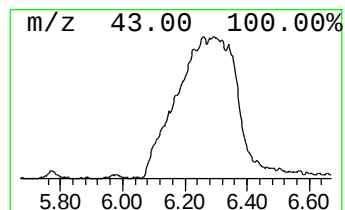
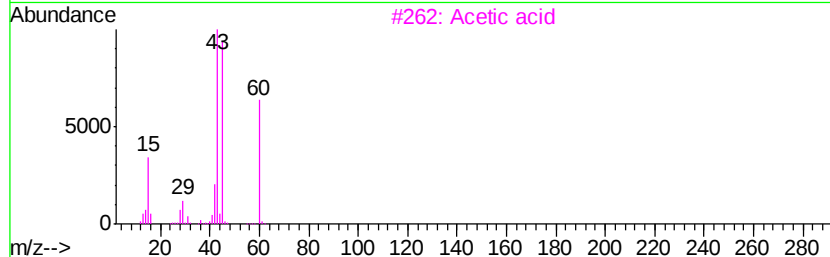
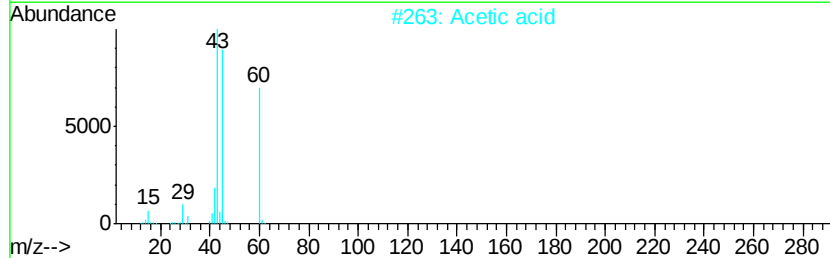
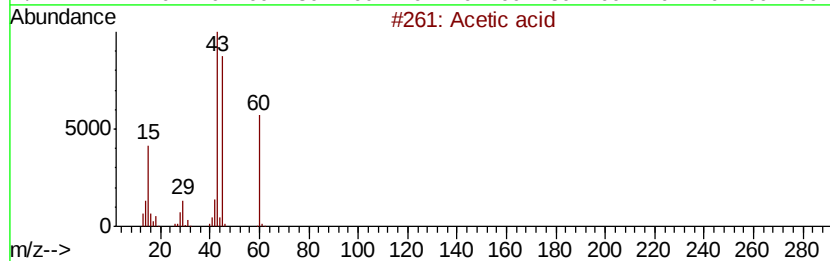
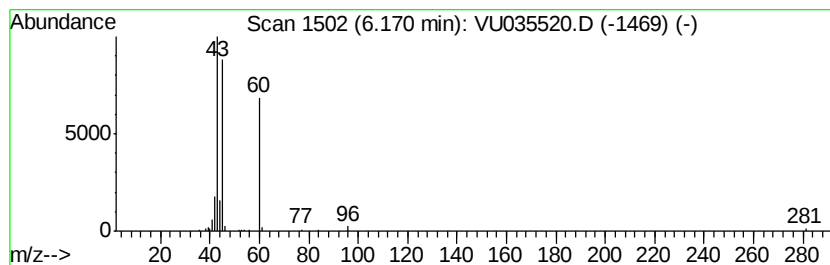
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Acetic acid Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 6.17 | 3.32 ug/L | 127487 | 1,4-Difluorobenzene | 6.29 |

| Hit# | of | Tentative ID             | MW | MolForm | CAS#        | Qual |
|------|----|--------------------------|----|---------|-------------|------|
| 1    | 5  | Acetic acid              | 60 | C2H4O2  | 000064-19-7 | 86   |
| 2    |    | Acetic acid              | 60 | C2H4O2  | 000064-19-7 | 86   |
| 3    |    | Acetic acid              | 60 | C2H4O2  | 000064-19-7 | 78   |
| 4    |    | Acetic acid              | 60 | C2H4O2  | 000064-19-7 | 78   |
| 5    |    | Hydrazine, 1,2-dimethyl- | 60 | C2H8N2  | 000540-73-8 | 50   |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                  |      |         |       |          | #                     | RT   | Resp    | Conc |
| Acetic acid      | 6.17 | 3.3     | ug/L  | 127487   | 1                     | 6.29 | 1917920 | 50.0 |