

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
 Data File : VV012781.D  
 Acq On : 14 Sep 2019 21:24  
 Operator : SY/MD  
 Sample : K4867-14  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 COMH4

## 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\SOMVLM091319WMA.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         | 1.319       | 65            | 71          | 82           | rVB      | 253546         | 252078        | 1.19%           | 0.628%        |
| 2         | 1.576       | 144           | 151         | 168          | rVB      | 244606         | 289840        | 1.37%           | 0.722%        |
| 3         | 2.129       | 313           | 323         | 334          | rBV      | 490574         | 693354        | 3.28%           | 1.727%        |
| 4         | 2.303       | 367           | 377         | 394          | rBV      | 39982          | 73175         | 0.35%           | 0.182%        |
| 5         | 2.463       | 423           | 427         | 434          | rVB5     | 1719           | 1823          | 0.01%           | 0.005%        |
| 6         | 2.534       | 444           | 449         | 460          | rVB4     | 3346           | 5390          | 0.03%           | 0.013%        |
| 7         | 2.650       | 473           | 485         | 504          | rBV      | 31264          | 66750         | 0.32%           | 0.166%        |
| 8         | 2.746       | 511           | 515         | 520          | rVB5     | 940            | 818           | 0.00%           | 0.002%        |
| 9         | 2.778       | 520           | 525         | 527          | rBV3     | 943            | 736           | 0.00%           | 0.002%        |
| 10        | 2.794       | 527           | 530         | 532          | rBV4     | 654            | 502           | 0.00%           | 0.001%        |
| 11        | 2.881       | 552           | 557         | 560          | rBV6     | 995            | 1137          | 0.01%           | 0.003%        |
| 12        | 2.958       | 578           | 581         | 584          | rVB3     | 1125           | 714           | 0.00%           | 0.002%        |
| 13        | 2.978       | 584           | 587         | 590          | rBV4     | 892            | 617           | 0.00%           | 0.002%        |
| 14        | 3.049       | 605           | 609         | 612          | rBV4     | 759            | 556           | 0.00%           | 0.001%        |
| 15        | 3.090       | 620           | 622         | 625          | rVB4     | 948            | 503           | 0.00%           | 0.001%        |
| 16        | 3.145       | 636           | 639         | 643          | rBV      | 991            | 716           | 0.00%           | 0.002%        |
| 17        | 3.171       | 645           | 647         | 658          | rVB7     | 1721           | 2108          | 0.01%           | 0.005%        |
| 18        | 3.592       | 775           | 778         | 782          | rVV2     | 587            | 527           | 0.00%           | 0.001%        |
| 19        | 3.650       | 792           | 796         | 797          | rBV      | 792            | 563           | 0.00%           | 0.001%        |
| 20        | 3.711       | 812           | 815         | 817          | rVB2     | 1370           | 676           | 0.00%           | 0.002%        |
| 21        | 3.743       | 821           | 825         | 827          | rBV      | 620            | 450           | 0.00%           | 0.001%        |
| 22        | 3.753       | 827           | 828         | 834          | rVB2     | 754            | 456           | 0.00%           | 0.001%        |
| 23        | 3.923       | 868           | 881         | 903          | rBV2     | 288721         | 838150        | 3.97%           | 2.088%        |
| 24        | 4.373       | 1003          | 1021        | 1065         | rBV      | 8415488        | 21125079      | 100.00%         | 52.630%       |
| 25        | 5.093       | 1224          | 1245        | 1272         | rBV2     | 1050365        | 2661936       | 12.60%          | 6.632%        |
| 26        | 5.341       | 1320          | 1322        | 1324         | rBV3     | 955            | 466           | 0.00%           | 0.001%        |
| 27        | 5.508       | 1370          | 1374        | 1375         | rBV2     | 675            | 480           | 0.00%           | 0.001%        |
| 28        | 5.537       | 1380          | 1383        | 1386         | rVV3     | 1052           | 786           | 0.00%           | 0.002%        |
| 29        | 5.663       | 1406          | 1422        | 1447         | rBV      | 818758         | 1598253       | 7.57%           | 3.982%        |
| 30        | 5.955       | 1496          | 1513        | 1537         | rBV4     | 263419         | 607576        | 2.88%           | 1.514%        |
| 31        | 6.116       | 1548          | 1563        | 1586         | rBV      | 670463         | 1326894       | 6.28%           | 3.306%        |
| 32        | 6.283       | 1612          | 1615        | 1622         | rVV7     | 1374           | 1259          | 0.01%           | 0.003%        |
| 33        | 6.389       | 1645          | 1648        | 1654         | rVB5     | 843            | 802           | 0.00%           | 0.002%        |
| 34        | 6.447       | 1663          | 1666        | 1669         | rVB3     | 1215           | 741           | 0.00%           | 0.002%        |

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 Max Peaks: 100  
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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |       |        |
|----|--------|------|------|------|------|---------|---------|-------|--------|
| 35 | 6.563  | 1699 | 1702 | 1705 | rBV5 | 776     | 569     | 0.00% | 0.001% |
| 36 | 6.650  | 1720 | 1729 | 1733 | rBV5 | 5776    | 9995    | 0.05% | 0.025% |
| 37 | 6.952  | 1821 | 1823 | 1828 | rVB4 | 1136    | 733     | 0.00% | 0.002% |
| 38 | 7.029  | 1828 | 1847 | 1866 | rBV  | 304595  | 543172  | 2.57% | 1.353% |
| 39 | 7.158  | 1884 | 1887 | 1888 | rBV3 | 1015    | 665     | 0.00% | 0.002% |
| 40 | 7.177  | 1888 | 1893 | 1898 | rVV6 | 2643    | 3171    | 0.02% | 0.008% |
| 41 | 7.289  | 1925 | 1928 | 1930 | rBV3 | 960     | 507     | 0.00% | 0.001% |
| 42 | 7.357  | 1935 | 1949 | 1970 | rBV  | 1108070 | 1915107 | 9.07% | 4.771% |
| 43 | 7.662  | 2032 | 2044 | 2061 | rBV  | 214871  | 368134  | 1.74% | 0.917% |
| 44 | 7.881  | 2108 | 2112 | 2114 | rBV4 | 1318    | 950     | 0.00% | 0.002% |
| 45 | 7.984  | 2136 | 2144 | 2149 | rVV6 | 1818    | 2787    | 0.01% | 0.007% |
| 46 | 8.129  | 2177 | 2189 | 2240 | rBV2 | 670460  | 1502449 | 7.11% | 3.743% |
| 47 | 8.515  | 2306 | 2309 | 2314 | rVB6 | 1385    | 999     | 0.00% | 0.002% |
| 48 | 8.592  | 2330 | 2333 | 2335 | rBV3 | 901     | 613     | 0.00% | 0.002% |
| 49 | 8.653  | 2350 | 2352 | 2355 | rBV3 | 923     | 481     | 0.00% | 0.001% |
| 50 | 8.717  | 2370 | 2372 | 2376 | rVB3 | 990     | 570     | 0.00% | 0.001% |
| 51 | 8.894  | 2413 | 2427 | 2455 | rBV  | 1162076 | 1872229 | 8.86% | 4.664% |
| 52 | 9.177  | 2511 | 2515 | 2523 | rVB7 | 2442    | 2305    | 0.01% | 0.006% |
| 53 | 9.270  | 2540 | 2544 | 2546 | rBV5 | 799     | 539     | 0.00% | 0.001% |
| 54 | 9.286  | 2546 | 2549 | 2554 | rVB5 | 1645    | 1215    | 0.01% | 0.003% |
| 55 | 9.328  | 2557 | 2562 | 2565 | rBV3 | 786     | 677     | 0.00% | 0.002% |
| 56 | 9.531  | 2619 | 2625 | 2627 | rBV5 | 824     | 752     | 0.00% | 0.002% |
| 57 | 9.592  | 2640 | 2644 | 2649 | rBV6 | 1766    | 1969    | 0.01% | 0.005% |
| 58 | 9.643  | 2657 | 2660 | 2662 | rBV3 | 721     | 454     | 0.00% | 0.001% |
| 59 | 9.659  | 2663 | 2665 | 2669 | rVB3 | 1100    | 565     | 0.00% | 0.001% |
| 60 | 9.965  | 2757 | 2760 | 2762 | rBV2 | 1180    | 795     | 0.00% | 0.002% |
| 61 | 9.990  | 2766 | 2768 | 2770 | rBV2 | 813     | 470     | 0.00% | 0.001% |
| 62 | 10.058 | 2778 | 2789 | 2800 | rBV8 | 9590    | 20309   | 0.10% | 0.051% |
| 63 | 10.164 | 2819 | 2822 | 2824 | rBV3 | 677     | 483     | 0.00% | 0.001% |
| 64 | 10.257 | 2838 | 2851 | 2871 | rVV  | 786843  | 1230775 | 5.83% | 3.066% |
| 65 | 10.421 | 2897 | 2902 | 2908 | rVV6 | 3176    | 3613    | 0.02% | 0.009% |
| 66 | 10.460 | 2911 | 2914 | 2919 | rVB5 | 723     | 555     | 0.00% | 0.001% |
| 67 | 10.489 | 2919 | 2923 | 2925 | rBV3 | 857     | 552     | 0.00% | 0.001% |
| 68 | 10.524 | 2931 | 2934 | 2937 | rBV2 | 1152    | 676     | 0.00% | 0.002% |
| 69 | 10.621 | 2959 | 2964 | 2968 | rBV2 | 698     | 689     | 0.00% | 0.002% |
| 70 | 10.736 | 2999 | 3000 | 3009 | rVB6 | 1266    | 968     | 0.00% | 0.002% |
| 71 | 10.778 | 3009 | 3013 | 3015 | rBV2 | 717     | 587     | 0.00% | 0.001% |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |       |        |
|-----|--------|------|------|------|------|---------|---------|-------|--------|
| 72  | 10.852 | 3030 | 3036 | 3040 | rVB6 | 833     | 964     | 0.00% | 0.002% |
| 73  | 10.894 | 3045 | 3049 | 3053 | rBV4 | 794     | 631     | 0.00% | 0.002% |
| 74  | 10.955 | 3065 | 3068 | 3069 | rBV2 | 961     | 560     | 0.00% | 0.001% |
| 75  | 11.084 | 3103 | 3108 | 3109 | rBV2 | 1099    | 739     | 0.00% | 0.002% |
| 76  | 11.129 | 3117 | 3122 | 3126 | rBV3 | 416     | 513     | 0.00% | 0.001% |
| 77  | 11.209 | 3141 | 3147 | 3149 | rBV4 | 1297    | 1396    | 0.01% | 0.003% |
| 78  | 11.293 | 3160 | 3173 | 3195 | rBV  | 850689  | 1317442 | 6.24% | 3.282% |
| 79  | 11.518 | 3241 | 3243 | 3249 | rVB3 | 1424    | 1155    | 0.01% | 0.003% |
| 80  | 11.669 | 3277 | 3290 | 3308 | rVV  | 1120952 | 1752791 | 8.30% | 4.367% |
| 81  | 11.932 | 3368 | 3372 | 3378 | rVB6 | 1557    | 1532    | 0.01% | 0.004% |
| 82  | 11.961 | 3378 | 3381 | 3384 | rBV2 | 571     | 484     | 0.00% | 0.001% |
| 83  | 12.058 | 3408 | 3411 | 3414 | rVB2 | 875     | 562     | 0.00% | 0.001% |
| 84  | 12.135 | 3433 | 3435 | 3439 | rBV3 | 624     | 517     | 0.00% | 0.001% |
| 85  | 12.154 | 3439 | 3441 | 3444 | rVB  | 869     | 452     | 0.00% | 0.001% |
| 86  | 12.177 | 3444 | 3448 | 3452 | rBV4 | 691     | 496     | 0.00% | 0.001% |
| 87  | 12.273 | 3475 | 3478 | 3482 | rVB4 | 1070    | 754     | 0.00% | 0.002% |
| 88  | 12.354 | 3498 | 3503 | 3505 | rBV2 | 948     | 747     | 0.00% | 0.002% |
| 89  | 12.399 | 3513 | 3517 | 3522 | rBV5 | 996     | 1113    | 0.01% | 0.003% |
| 90  | 12.691 | 3605 | 3608 | 3612 | rBV3 | 1029    | 703     | 0.00% | 0.002% |
| 91  | 12.759 | 3627 | 3629 | 3634 | rBV2 | 653     | 505     | 0.00% | 0.001% |
| 92  | 12.919 | 3676 | 3679 | 3683 | rBV3 | 857     | 646     | 0.00% | 0.002% |
| 93  | 12.942 | 3684 | 3686 | 3694 | rVB4 | 887     | 809     | 0.00% | 0.002% |
| 94  | 13.019 | 3708 | 3710 | 3715 | rBV3 | 684     | 551     | 0.00% | 0.001% |
| 95  | 13.289 | 3786 | 3794 | 3796 | rBV5 | 1112    | 1361    | 0.01% | 0.003% |
| 96  | 13.424 | 3832 | 3836 | 3839 | rBV4 | 883     | 823     | 0.00% | 0.002% |
| 97  | 13.534 | 3864 | 3870 | 3873 | rBV2 | 817     | 848     | 0.00% | 0.002% |
| 98  | 13.788 | 3947 | 3949 | 3951 | rBV2 | 751     | 471     | 0.00% | 0.001% |
| 99  | 13.955 | 3998 | 4001 | 4002 | rBV2 | 878     | 490     | 0.00% | 0.001% |
| 100 | 15.067 | 4345 | 4347 | 4350 | rBV2 | 1294    | 869     | 0.00% | 0.002% |

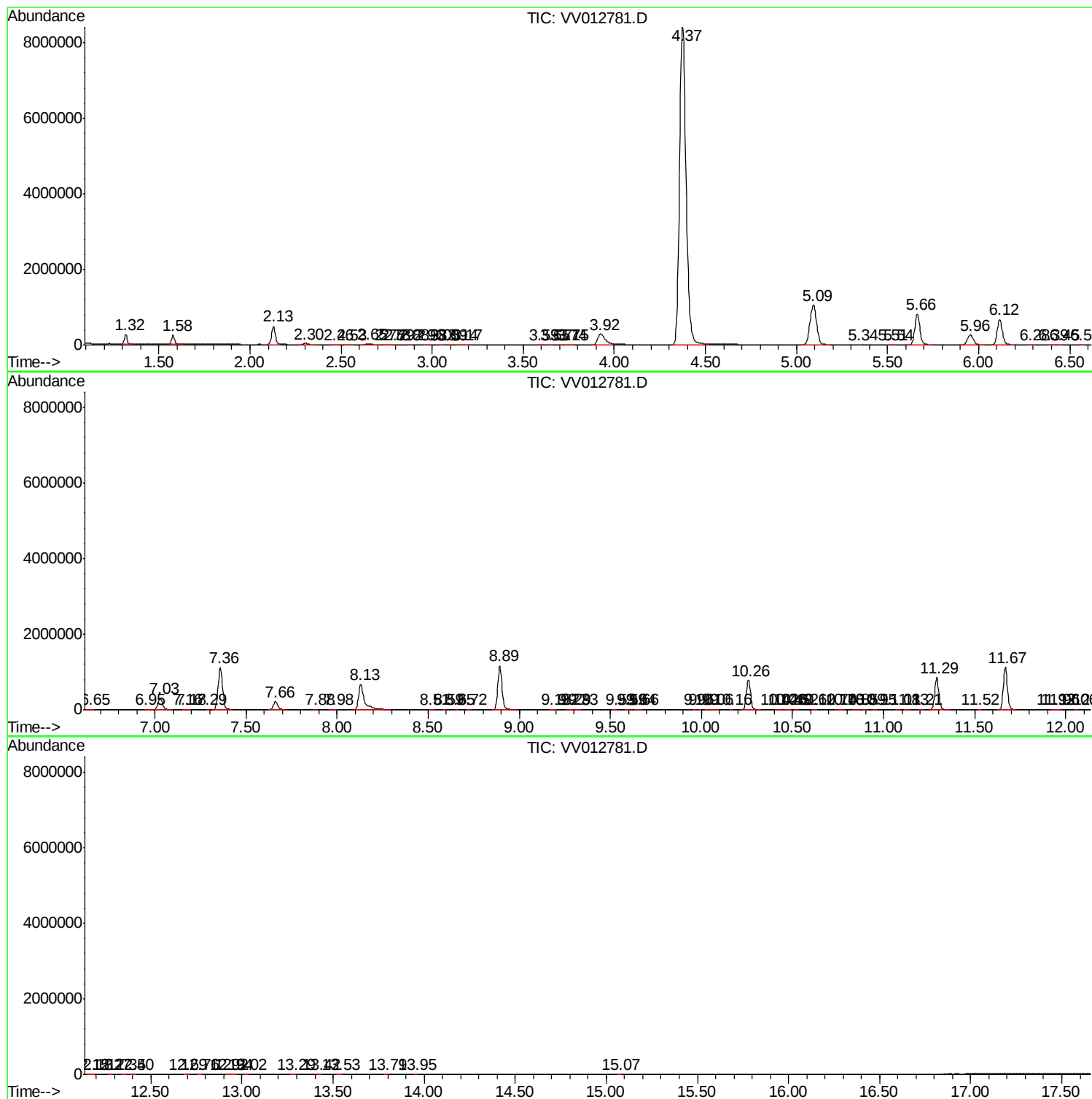
Sum of corrected areas: 40138914

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
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Quant Title : VOC Analysis

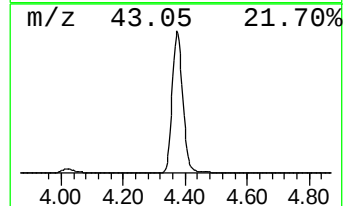
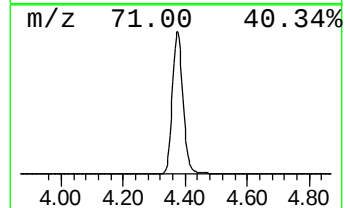
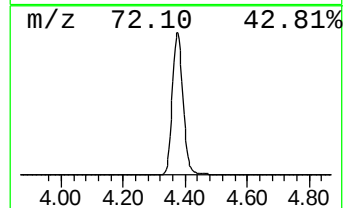
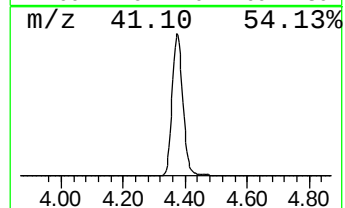
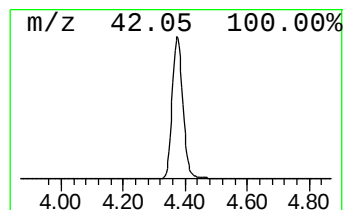
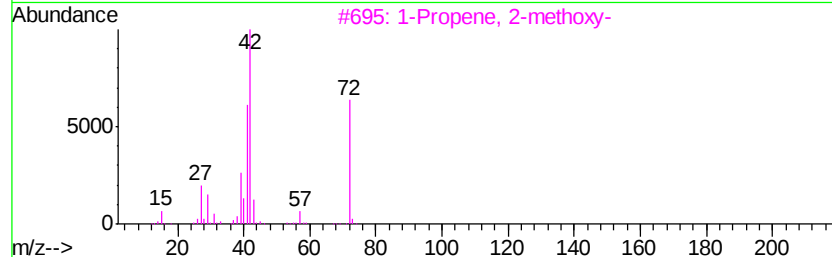
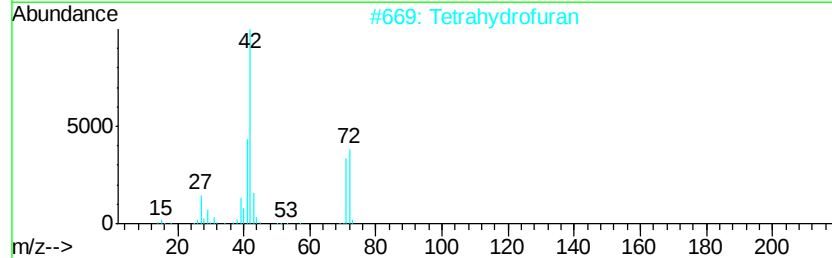
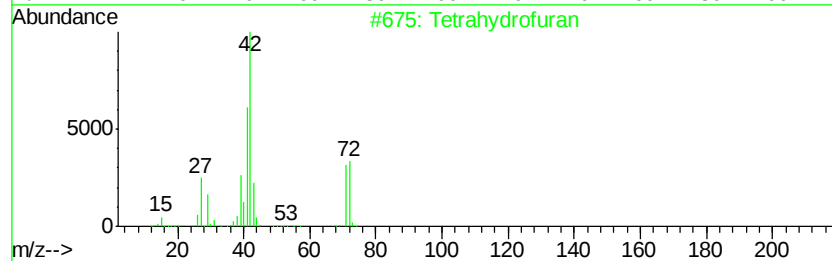
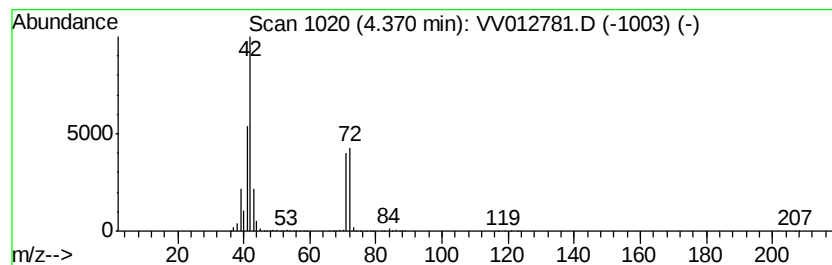
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Tetrahydrofuran Concentration Rank 2

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 4.37 | 660.88 ug/L | 21125100 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------|----|---------|-------------|------|
| 1    | 5  | Tetrahydrofuran       | 72 | C4H8O   | 000109-99-9 | 90   |
| 2    |    | Tetrahydrofuran       | 72 | C4H8O   | 000109-99-9 | 86   |
| 3    |    | 1-Propene, 2-methoxy- | 72 | C4H8O   | 000116-11-0 | 52   |
| 4    |    | 1-Propene, 2-methoxy- | 72 | C4H8O   | 000116-11-0 | 40   |
| 5    |    | Oxirane, ethyl-       | 72 | C4H8O   | 000106-88-7 | 40   |



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

| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                  |      |         |       |          | #                     | RT   | Resp    | Conc |
| Tetrahydrofuran  | 4.37 | 660.9   | ug/L  | 21125100 | 1                     | 5.66 | 1598250 | 50.0 |