

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV101119\  
 Data File : VV013125.D  
 Acq On : 12 Oct 2019 01:58  
 Operator : SY/MD  
 Sample : K5347-06  
 Misc : 5.00ML/MSVOA\_V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AF5

## 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\SOMVLM101119WMA.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         | 1.322       | 64            | 72          | 86           | rBV      | 326578         | 342564        | 13.24%          | 1.817%        |
| 2         | 1.582       | 145           | 153         | 166          | rVB      | 296312         | 337160        | 13.03%          | 1.788%        |
| 3         | 2.132       | 314           | 324         | 336          | rBV      | 593434         | 839839        | 32.45%          | 4.454%        |
| 4         | 2.190       | 337           | 342         | 353          | rVB2     | 24151          | 37640         | 1.45%           | 0.200%        |
| 5         | 2.322       | 373           | 383         | 404          | rVB      | 23859          | 58686         | 2.27%           | 0.311%        |
| 6         | 2.541       | 443           | 451         | 456          | rBV8     | 2149           | 3091          | 0.12%           | 0.016%        |
| 7         | 2.602       | 468           | 470         | 472          | rBV2     | 670            | 415           | 0.02%           | 0.002%        |
| 8         | 2.643       | 480           | 483         | 484          | rBV3     | 856            | 509           | 0.02%           | 0.003%        |
| 9         | 2.779       | 523           | 525         | 528          | rBV3     | 884            | 725           | 0.03%           | 0.004%        |
| 10        | 2.865       | 549           | 552         | 557          | rVB3     | 880            | 707           | 0.03%           | 0.004%        |
| 11        | 2.978       | 583           | 587         | 592          | rVB4     | 892            | 775           | 0.03%           | 0.004%        |
| 12        | 3.020       | 592           | 600         | 601          | rBV5     | 949            | 1095          | 0.04%           | 0.006%        |
| 13        | 3.158       | 640           | 643         | 646          | rVV5     | 604            | 475           | 0.02%           | 0.003%        |
| 14        | 3.180       | 646           | 650         | 652          | rBV3     | 590            | 556           | 0.02%           | 0.003%        |
| 15        | 3.251       | 666           | 672         | 675          | rVB5     | 436            | 412           | 0.02%           | 0.002%        |
| 16        | 3.280       | 675           | 681         | 683          | rVV2     | 590            | 600           | 0.02%           | 0.003%        |
| 17        | 3.422       | 718           | 725         | 727          | rBV3     | 511            | 506           | 0.02%           | 0.003%        |
| 18        | 3.473       | 737           | 741         | 744          | rBV3     | 469            | 424           | 0.02%           | 0.002%        |
| 19        | 3.531       | 757           | 759         | 764          | rBV2     | 677            | 411           | 0.02%           | 0.002%        |
| 20        | 3.669       | 798           | 802         | 805          | rBV2     | 811            | 675           | 0.03%           | 0.004%        |
| 21        | 3.708       | 809           | 814         | 817          | rVB3     | 811            | 637           | 0.02%           | 0.003%        |
| 22        | 3.733       | 817           | 822         | 824          | rBV2     | 531            | 490           | 0.02%           | 0.003%        |
| 23        | 3.823       | 846           | 850         | 853          | rBV3     | 951            | 690           | 0.03%           | 0.004%        |
| 24        | 3.862       | 857           | 862         | 865          | rBV5     | 799            | 650           | 0.03%           | 0.003%        |
| 25        | 3.930       | 870           | 883         | 912          | rBV      | 204142         | 578904        | 22.37%          | 3.070%        |
| 26        | 4.399       | 1012          | 1029        | 1056         | rBV      | 426491         | 1040259       | 40.19%          | 5.517%        |
| 27        | 4.727       | 1128          | 1131        | 1133         | rBV4     | 869            | 578           | 0.02%           | 0.003%        |
| 28        | 4.843       | 1163          | 1167        | 1170         | rBV2     | 866            | 768           | 0.03%           | 0.004%        |
| 29        | 5.094       | 1227          | 1245        | 1284         | rBV2     | 1015633        | 2588102       | 100.00%         | 13.726%       |
| 30        | 5.393       | 1335          | 1338        | 1339         | rBV2     | 766            | 494           | 0.02%           | 0.003%        |
| 31        | 5.560       | 1383          | 1390        | 1394         | rBV6     | 661            | 943           | 0.04%           | 0.005%        |
| 32        | 5.663       | 1407          | 1422        | 1452         | rBV      | 755083         | 1492887       | 57.68%          | 7.917%        |
| 33        | 5.811       | 1466          | 1468        | 1475         | rVB6     | 1239           | 1030          | 0.04%           | 0.005%        |
| 34        | 5.875       | 1483          | 1488        | 1490         | rVB3     | 979            | 658           | 0.03%           | 0.003%        |

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 Peak separation: 5

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 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 5.946  | 1496 | 1510 | 1534 | rBV2 | 69542   | 146667  | 5.67%  | 0.778%  |
| 36 | 6.116  | 1547 | 1563 | 1588 | rBV  | 584252  | 1185132 | 45.79% | 6.285%  |
| 37 | 6.322  | 1625 | 1627 | 1632 | rVB5 | 858     | 559     | 0.02%  | 0.003%  |
| 38 | 6.489  | 1676 | 1679 | 1684 | rVB3 | 631     | 451     | 0.02%  | 0.002%  |
| 39 | 6.521  | 1684 | 1689 | 1691 | rBV2 | 787     | 656     | 0.03%  | 0.003%  |
| 40 | 6.643  | 1720 | 1727 | 1729 | rBV6 | 1455    | 1487    | 0.06%  | 0.008%  |
| 41 | 6.733  | 1752 | 1755 | 1759 | rBV3 | 579     | 449     | 0.02%  | 0.002%  |
| 42 | 6.852  | 1789 | 1792 | 1798 | rBV2 | 515     | 459     | 0.02%  | 0.002%  |
| 43 | 6.904  | 1806 | 1808 | 1811 | rBV3 | 694     | 460     | 0.02%  | 0.002%  |
| 44 | 6.952  | 1820 | 1823 | 1826 | rVB4 | 653     | 450     | 0.02%  | 0.002%  |
| 45 | 7.029  | 1834 | 1847 | 1873 | rBV  | 295897  | 526289  | 20.33% | 2.791%  |
| 46 | 7.293  | 1925 | 1929 | 1932 | rVB3 | 1032    | 714     | 0.03%  | 0.004%  |
| 47 | 7.357  | 1936 | 1949 | 1969 | rBV  | 1149561 | 1955816 | 75.57% | 10.372% |
| 48 | 7.608  | 2023 | 2027 | 2031 | rVB3 | 644     | 515     | 0.02%  | 0.003%  |
| 49 | 7.663  | 2031 | 2044 | 2062 | rBV  | 206400  | 352077  | 13.60% | 1.867%  |
| 50 | 7.904  | 2115 | 2119 | 2125 | rVB4 | 732     | 828     | 0.03%  | 0.004%  |
| 51 | 8.016  | 2132 | 2154 | 2177 | rBV  | 249689  | 432665  | 16.72% | 2.295%  |
| 52 | 8.132  | 2177 | 2190 | 2225 | rBV2 | 608730  | 1196971 | 46.25% | 6.348%  |
| 53 | 8.582  | 2327 | 2330 | 2333 | rBV2 | 878     | 694     | 0.03%  | 0.004%  |
| 54 | 8.691  | 2358 | 2364 | 2367 | rBV5 | 775     | 899     | 0.03%  | 0.005%  |
| 55 | 8.740  | 2377 | 2379 | 2383 | rVB3 | 683     | 453     | 0.02%  | 0.002%  |
| 56 | 8.765  | 2383 | 2387 | 2390 | rBV3 | 768     | 680     | 0.03%  | 0.004%  |
| 57 | 8.826  | 2403 | 2406 | 2410 | rVB3 | 807     | 548     | 0.02%  | 0.003%  |
| 58 | 8.894  | 2414 | 2427 | 2456 | rBV  | 1085459 | 1777472 | 68.68% | 9.427%  |
| 59 | 9.180  | 2508 | 2516 | 2529 | rVB8 | 3625    | 5705    | 0.22%  | 0.030%  |
| 60 | 9.238  | 2529 | 2534 | 2537 | rBV3 | 565     | 550     | 0.02%  | 0.003%  |
| 61 | 9.270  | 2542 | 2544 | 2549 | rBV3 | 592     | 546     | 0.02%  | 0.003%  |
| 62 | 9.376  | 2573 | 2577 | 2581 | rBV4 | 623     | 626     | 0.02%  | 0.003%  |
| 63 | 9.585  | 2639 | 2642 | 2643 | rBV2 | 909     | 538     | 0.02%  | 0.003%  |
| 64 | 9.685  | 2669 | 2673 | 2676 | rBV4 | 767     | 418     | 0.02%  | 0.002%  |
| 65 | 9.756  | 2689 | 2695 | 2697 | rBV4 | 501     | 522     | 0.02%  | 0.003%  |
| 66 | 9.785  | 2702 | 2704 | 2707 | rVB3 | 785     | 467     | 0.02%  | 0.002%  |
| 67 | 9.846  | 2720 | 2723 | 2725 | rBV2 | 721     | 442     | 0.02%  | 0.002%  |
| 68 | 9.904  | 2738 | 2741 | 2746 | rBV3 | 808     | 756     | 0.03%  | 0.004%  |
| 69 | 9.945  | 2751 | 2754 | 2757 | rBV3 | 487     | 445     | 0.02%  | 0.002%  |
| 70 | 9.978  | 2762 | 2764 | 2769 | rVB3 | 1058    | 721     | 0.03%  | 0.004%  |
| 71 | 10.007 | 2769 | 2773 | 2774 | rBV  | 668     | 454     | 0.02%  | 0.002%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
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|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 10.061 | 2781 | 2790 | 2802 | rBV7 | 4299   | 7485    | 0.29%  | 0.040% |
| 73  | 10.257 | 2837 | 2851 | 2875 | rVV  | 678641 | 1075098 | 41.54% | 5.702% |
| 74  | 10.392 | 2889 | 2893 | 2895 | rBV3 | 705    | 574     | 0.02%  | 0.003% |
| 75  | 10.418 | 2895 | 2901 | 2913 | rVB3 | 5800   | 9172    | 0.35%  | 0.049% |
| 76  | 10.582 | 2948 | 2952 | 2953 | rBV2 | 576    | 436     | 0.02%  | 0.002% |
| 77  | 10.720 | 2993 | 2995 | 3002 | rVB4 | 679    | 602     | 0.02%  | 0.003% |
| 78  | 10.785 | 3013 | 3015 | 3021 | rVB5 | 515    | 444     | 0.02%  | 0.002% |
| 79  | 10.891 | 3043 | 3048 | 3050 | rBV2 | 642    | 562     | 0.02%  | 0.003% |
| 80  | 10.955 | 3062 | 3068 | 3071 | rBV3 | 1049   | 1000    | 0.04%  | 0.005% |
| 81  | 11.032 | 3088 | 3092 | 3097 | rVB4 | 1156   | 1241    | 0.05%  | 0.007% |
| 82  | 11.061 | 3097 | 3101 | 3104 | rBV3 | 1017   | 639     | 0.02%  | 0.003% |
| 83  | 11.203 | 3141 | 3145 | 3146 | rVV3 | 778    | 487     | 0.02%  | 0.003% |
| 84  | 11.225 | 3150 | 3152 | 3160 | rVB3 | 1639   | 1384    | 0.05%  | 0.007% |
| 85  | 11.289 | 3160 | 3172 | 3196 | rBV  | 815992 | 1296503 | 50.09% | 6.876% |
| 86  | 11.527 | 3244 | 3246 | 3252 | rVB4 | 576    | 550     | 0.02%  | 0.003% |
| 87  | 11.585 | 3255 | 3264 | 3265 | rBV4 | 3498   | 4423    | 0.17%  | 0.023% |
| 88  | 11.669 | 3277 | 3290 | 3306 | rBV  | 951656 | 1518317 | 58.67% | 8.052% |
| 89  | 11.958 | 3378 | 3380 | 3386 | rVB5 | 557    | 450     | 0.02%  | 0.002% |
| 90  | 11.997 | 3389 | 3392 | 3396 | rBV2 | 445    | 446     | 0.02%  | 0.002% |
| 91  | 12.318 | 3489 | 3492 | 3498 | rBV3 | 753    | 843     | 0.03%  | 0.004% |
| 92  | 12.444 | 3526 | 3531 | 3534 | rBV4 | 913    | 899     | 0.03%  | 0.005% |
| 93  | 12.521 | 3552 | 3555 | 3560 | rVB2 | 510    | 443     | 0.02%  | 0.002% |
| 94  | 13.225 | 3770 | 3774 | 3776 | rBV2 | 531    | 464     | 0.02%  | 0.002% |
| 95  | 13.492 | 3855 | 3857 | 3862 | rVB4 | 640    | 432     | 0.02%  | 0.002% |
| 96  | 13.611 | 3891 | 3894 | 3898 | rBV3 | 573    | 491     | 0.02%  | 0.003% |
| 97  | 14.154 | 4060 | 4063 | 4068 | rBV4 | 803    | 815     | 0.03%  | 0.004% |
| 98  | 14.540 | 4181 | 4183 | 4186 | rVB2 | 1003   | 480     | 0.02%  | 0.003% |
| 99  | 14.653 | 4216 | 4218 | 4219 | rBV2 | 909    | 448     | 0.02%  | 0.002% |
| 100 | 14.743 | 4243 | 4246 | 4249 | rBV2 | 1102   | 870     | 0.03%  | 0.005% |

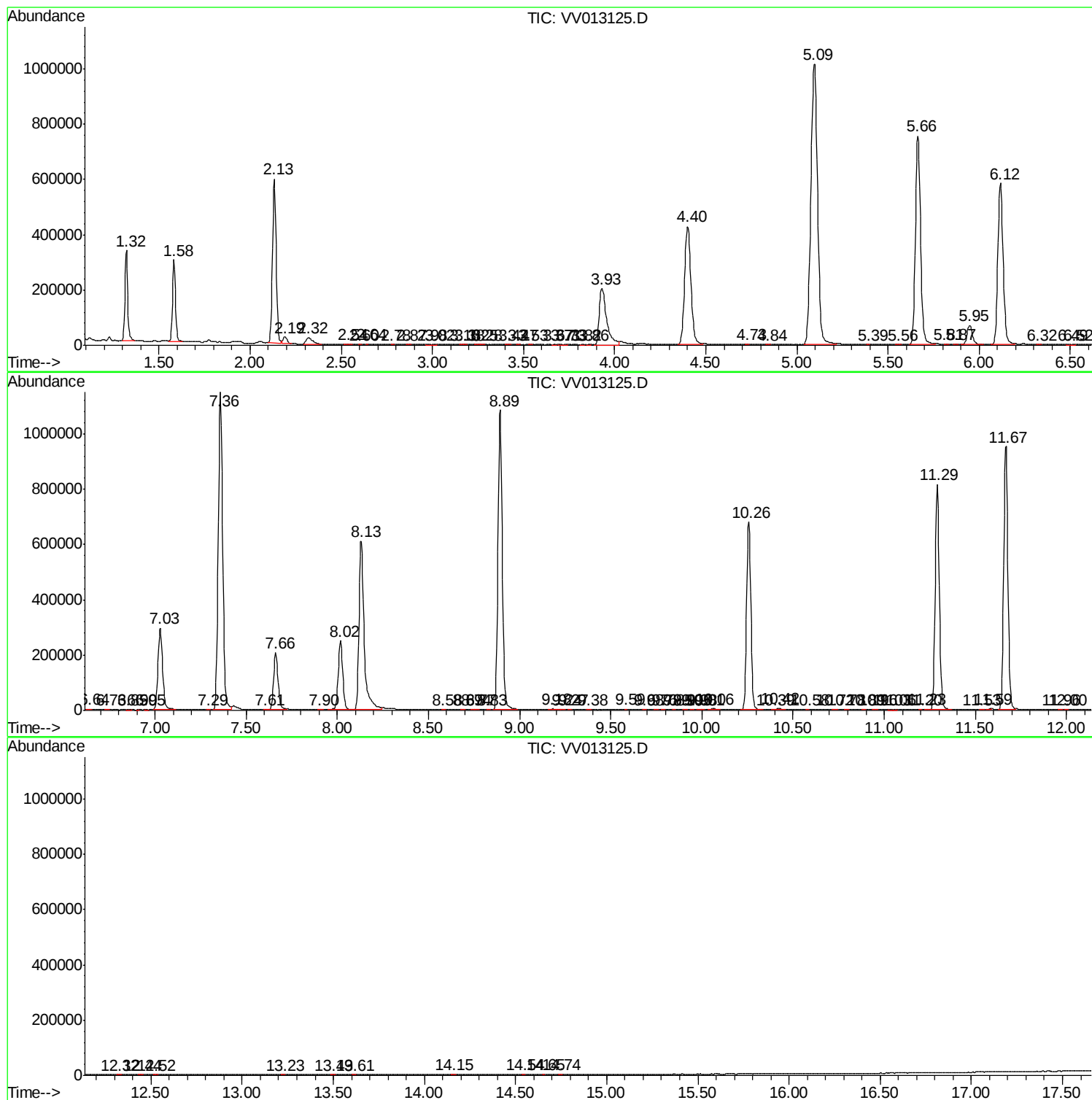
Sum of corrected areas: 18855934

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
Quant Title : VOC Analysis

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



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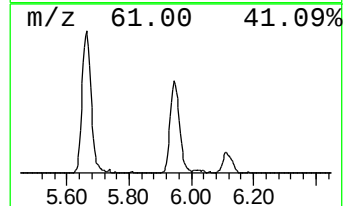
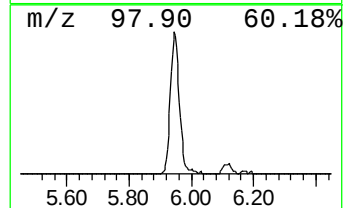
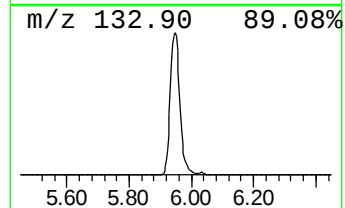
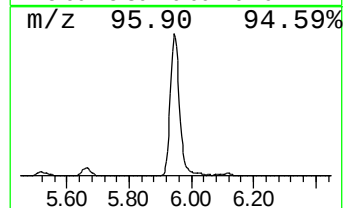
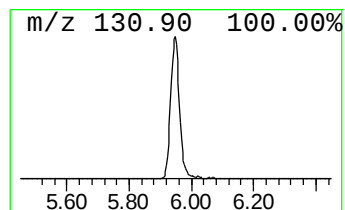
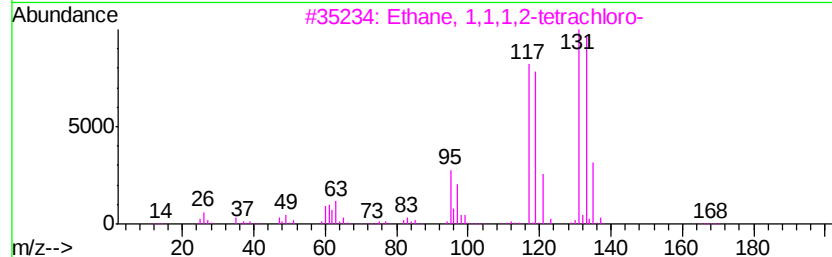
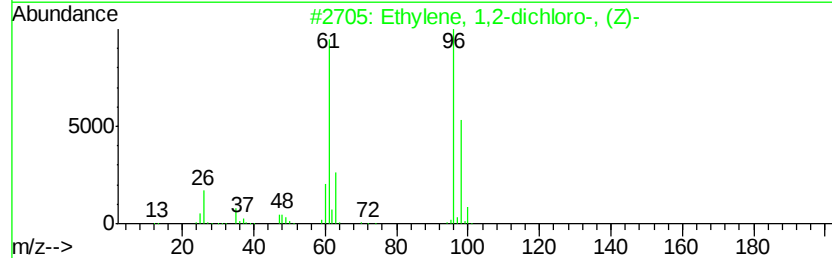
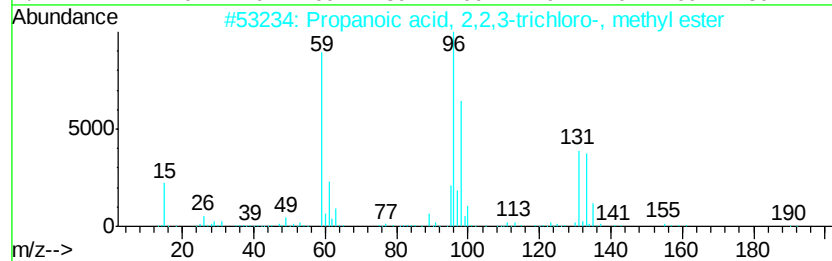
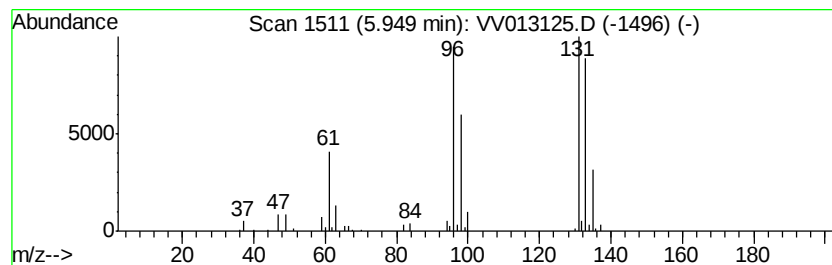
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Propanoic acid, 2,2,3-trich... Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.95 | 4.91 ug/L | 146667 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 50   |
| 2    |    | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 27   |
| 3    |    | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 23   |
| 4    |    | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0 | 12   |
| 5    |    | Carbamic acid, acetylthio-, O-me... | 133 | C4H7NO2S  | 016696-87-0 | 12   |



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| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|----------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                      |      |         |       |          | #                     | RT   | Resp    | Conc |
| Propanoic acid, 2... | 5.95 | 4.9     | ug/L  | 146667   | 1                     | 5.66 | 1492890 | 50.0 |