

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071619\  
 Data File : VW011293.D  
 Acq On : 16 Jul 2019 18:27  
 Operator : SY/VA  
 Sample : K3798-16  
 Misc : 6.08G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A52G4

## 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\_W\METHOD\SOM2WLM070219S.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         | 1.989       | 6             | 14          | 24           | rVB2     | 13523          | 41061         | 2.86%           | 0.358%        |
| 2         | 2.178       | 37            | 45          | 52           | rBV2     | 6773           | 15478         | 1.08%           | 0.135%        |
| 3         | 2.348       | 67            | 73          | 84           | rBV2     | 68180          | 125348        | 8.74%           | 1.092%        |
| 4         | 2.489       | 92            | 96          | 102          | rBV2     | 8525           | 16270         | 1.13%           | 0.142%        |
| 5         | 2.885       | 154           | 161         | 176          | rVB      | 40078          | 104443        | 7.28%           | 0.910%        |
| 6         | 3.373       | 236           | 241         | 246          | rBV6     | 1054           | 2033          | 0.14%           | 0.018%        |
| 7         | 3.476       | 255           | 258         | 261          | rBV5     | 746            | 1110          | 0.08%           | 0.010%        |
| 8         | 3.543       | 267           | 269         | 273          | rVB5     | 593            | 671           | 0.05%           | 0.006%        |
| 9         | 3.592       | 275           | 277         | 280          | rVB3     | 1004           | 1002          | 0.07%           | 0.009%        |
| 10        | 3.860       | 312           | 321         | 322          | rBV6     | 1595           | 3662          | 0.26%           | 0.032%        |
| 11        | 3.903       | 327           | 328         | 332          | rVV3     | 884            | 754           | 0.05%           | 0.007%        |
| 12        | 4.019       | 334           | 347         | 358          | rVV      | 100670         | 345712        | 24.11%          | 3.011%        |
| 13        | 4.116       | 358           | 363         | 376          | rVB      | 21148          | 61655         | 4.30%           | 0.537%        |
| 14        | 4.385       | 397           | 407         | 420          | rVB2     | 16487          | 52219         | 3.64%           | 0.455%        |
| 15        | 4.677       | 446           | 455         | 462          | rBV6     | 1073           | 3289          | 0.23%           | 0.029%        |
| 16        | 4.915       | 484           | 494         | 496          | rBV5     | 2589           | 6931          | 0.48%           | 0.060%        |
| 17        | 5.311       | 556           | 559         | 563          | rBV4     | 407            | 673           | 0.05%           | 0.006%        |
| 18        | 5.397       | 568           | 573         | 574          | rBV3     | 1775           | 2447          | 0.17%           | 0.021%        |
| 19        | 5.421       | 574           | 577         | 581          | rVB2     | 1681           | 2715          | 0.19%           | 0.024%        |
| 20        | 5.610       | 606           | 608         | 613          | rBV3     | 410            | 662           | 0.05%           | 0.006%        |
| 21        | 5.775       | 631           | 635         | 636          | rBV2     | 760            | 1025          | 0.07%           | 0.009%        |
| 22        | 5.921       | 654           | 659         | 660          | rBV3     | 1422           | 1835          | 0.13%           | 0.016%        |
| 23        | 6.098       | 682           | 688         | 689          | rVV4     | 1369           | 1956          | 0.14%           | 0.017%        |
| 24        | 6.116       | 689           | 691         | 698          | rVB5     | 1396           | 2587          | 0.18%           | 0.023%        |
| 25        | 6.177       | 698           | 701         | 704          | rBV3     | 464            | 674           | 0.05%           | 0.006%        |
| 26        | 6.896       | 809           | 819         | 827          | rBV6     | 4203           | 13838         | 0.96%           | 0.121%        |
| 27        | 6.982       | 832           | 833         | 839          | rVB4     | 686            | 1125          | 0.08%           | 0.010%        |
| 28        | 7.073       | 839           | 848         | 854          | rBV      | 60540          | 166535        | 11.61%          | 1.450%        |
| 29        | 7.165       | 854           | 863         | 880          | rVB      | 548822         | 1434069       | 100.00%         | 12.489%       |
| 30        | 7.646       | 929           | 942         | 954          | rBV      | 179456         | 449445        | 31.34%          | 3.914%        |
| 31        | 7.872       | 976           | 979         | 984          | rBV3     | 544            | 782           | 0.05%           | 0.007%        |
| 32        | 7.939       | 987           | 990         | 992          | rBV4     | 710            | 939           | 0.07%           | 0.008%        |
| 33        | 8.274       | 1033          | 1045        | 1060         | rVV2     | 366606         | 1108909       | 77.33%          | 9.658%        |
| 34        | 8.549       | 1084          | 1090        | 1097         | rVB3     | 5834           | 12958         | 0.90%           | 0.113%        |

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 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 8.701  | 1108 | 1115 | 1120 | rBV6 | 2456   | 6544    | 0.46%  | 0.057% |
| 36 | 8.841  | 1128 | 1138 | 1149 | rBV  | 418948 | 824859  | 57.52% | 7.184% |
| 37 | 9.085  | 1168 | 1178 | 1193 | rVV  | 518450 | 1035459 | 72.20% | 9.018% |
| 38 | 9.274  | 1197 | 1209 | 1223 | rVV  | 274608 | 565423  | 39.43% | 4.924% |
| 39 | 9.408  | 1226 | 1231 | 1240 | rVV2 | 11577  | 23410   | 1.63%  | 0.204% |
| 40 | 9.658  | 1264 | 1272 | 1279 | rBV2 | 3690   | 8209    | 0.57%  | 0.071% |
| 41 | 10.030 | 1326 | 1333 | 1343 | rBV  | 135652 | 249059  | 17.37% | 2.169% |
| 42 | 10.128 | 1343 | 1349 | 1351 | rBV4 | 2736   | 4928    | 0.34%  | 0.043% |
| 43 | 10.207 | 1359 | 1362 | 1367 | rBV5 | 909    | 1709    | 0.12%  | 0.015% |
| 44 | 10.323 | 1370 | 1381 | 1389 | rBV  | 473733 | 836314  | 58.32% | 7.284% |
| 45 | 10.384 | 1389 | 1391 | 1402 | rVB4 | 4315   | 8158    | 0.57%  | 0.071% |
| 46 | 10.579 | 1415 | 1423 | 1437 | rVB  | 93859  | 170049  | 11.86% | 1.481% |
| 47 | 10.701 | 1437 | 1443 | 1451 | rBV  | 10511  | 19573   | 1.36%  | 0.170% |
| 48 | 10.853 | 1461 | 1468 | 1473 | rBV8 | 3717   | 7719    | 0.54%  | 0.067% |
| 49 | 10.926 | 1473 | 1480 | 1497 | rVB  | 228452 | 394642  | 27.52% | 3.437% |
| 50 | 11.073 | 1497 | 1504 | 1516 | rBV  | 111040 | 185112  | 12.91% | 1.612% |
| 51 | 11.170 | 1518 | 1520 | 1522 | rBV3 | 594    | 636     | 0.04%  | 0.006% |
| 52 | 11.353 | 1548 | 1550 | 1553 | rVB3 | 596    | 728     | 0.05%  | 0.006% |
| 53 | 11.408 | 1555 | 1559 | 1566 | rVB5 | 908    | 1747    | 0.12%  | 0.015% |
| 54 | 11.518 | 1572 | 1577 | 1578 | rBV4 | 809    | 904     | 0.06%  | 0.008% |
| 55 | 11.627 | 1588 | 1595 | 1606 | rBV  | 558623 | 965088  | 67.30% | 8.405% |
| 56 | 11.725 | 1608 | 1611 | 1616 | rVV6 | 1355   | 2259    | 0.16%  | 0.020% |
| 57 | 11.847 | 1624 | 1631 | 1641 | rVV5 | 4271   | 11712   | 0.82%  | 0.102% |
| 58 | 11.950 | 1643 | 1648 | 1653 | rVB8 | 1072   | 1845    | 0.13%  | 0.016% |
| 59 | 12.158 | 1678 | 1682 | 1683 | rBV3 | 1236   | 1427    | 0.10%  | 0.012% |
| 60 | 12.170 | 1683 | 1684 | 1689 | rVV4 | 1917   | 1964    | 0.14%  | 0.017% |
| 61 | 12.237 | 1691 | 1695 | 1699 | rBV6 | 758    | 1384    | 0.10%  | 0.012% |
| 62 | 12.341 | 1707 | 1712 | 1717 | rBV  | 8613   | 12516   | 0.87%  | 0.109% |
| 63 | 12.402 | 1720 | 1722 | 1727 | rVB4 | 531    | 801     | 0.06%  | 0.007% |
| 64 | 12.456 | 1729 | 1731 | 1733 | rBV2 | 658    | 646     | 0.05%  | 0.006% |
| 65 | 12.511 | 1736 | 1740 | 1744 | rBV4 | 920    | 1827    | 0.13%  | 0.016% |
| 66 | 12.609 | 1749 | 1756 | 1762 | rBV  | 37743  | 61719   | 4.30%  | 0.538% |
| 67 | 12.694 | 1762 | 1770 | 1777 | rBV  | 254810 | 418585  | 29.19% | 3.645% |
| 68 | 12.773 | 1781 | 1783 | 1786 | rVB3 | 868    | 934     | 0.07%  | 0.008% |
| 69 | 12.938 | 1807 | 1810 | 1812 | rBV4 | 1146   | 1464    | 0.10%  | 0.013% |
| 70 | 13.042 | 1825 | 1827 | 1832 | rVB5 | 642    | 634     | 0.04%  | 0.006% |
| 71 | 13.206 | 1850 | 1854 | 1857 | rBV7 | 1113   | 1805    | 0.13%  | 0.016% |

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 Start Thrs: 0.2  
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 Min Area: 0 % of largest Peak  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.255 | 1858 | 1862 | 1863 | rBV4 | 945    | 1265   | 0.09%  | 0.011% |
| 73  | 13.279 | 1863 | 1866 | 1869 | rVB3 | 1102   | 1727   | 0.12%  | 0.015% |
| 74  | 13.401 | 1881 | 1886 | 1892 | rVB4 | 4729   | 8351   | 0.58%  | 0.073% |
| 75  | 13.493 | 1899 | 1901 | 1902 | rVV2 | 1647   | 1193   | 0.08%  | 0.010% |
| 76  | 13.560 | 1905 | 1912 | 1921 | rVV  | 529615 | 849239 | 59.22% | 7.396% |
| 77  | 13.651 | 1923 | 1927 | 1932 | rVB2 | 10309  | 16670  | 1.16%  | 0.145% |
| 78  | 13.852 | 1953 | 1960 | 1967 | rVV  | 420198 | 685889 | 47.83% | 5.973% |
| 79  | 13.987 | 1980 | 1982 | 1983 | rBV  | 722    | 669    | 0.05%  | 0.006% |
| 80  | 14.029 | 1985 | 1989 | 1990 | rVV4 | 1373   | 2145   | 0.15%  | 0.019% |
| 81  | 14.072 | 1990 | 1996 | 2006 | rVV2 | 16072  | 29752  | 2.07%  | 0.259% |
| 82  | 14.188 | 2013 | 2015 | 2020 | rBV5 | 936    | 1564   | 0.11%  | 0.014% |
| 83  | 14.328 | 2030 | 2038 | 2045 | rBV6 | 7769   | 14878  | 1.04%  | 0.130% |
| 84  | 14.426 | 2048 | 2054 | 2057 | rBV5 | 2049   | 3980   | 0.28%  | 0.035% |
| 85  | 14.462 | 2057 | 2060 | 2064 | rVV3 | 2470   | 2942   | 0.21%  | 0.026% |
| 86  | 14.529 | 2065 | 2071 | 2077 | rVB2 | 10149  | 16266  | 1.13%  | 0.142% |
| 87  | 14.627 | 2084 | 2087 | 2090 | rVB5 | 1080   | 1140   | 0.08%  | 0.010% |
| 88  | 14.694 | 2095 | 2098 | 2100 | rBV4 | 1169   | 1479   | 0.10%  | 0.013% |
| 89  | 14.724 | 2100 | 2103 | 2108 | rVB3 | 3247   | 4919   | 0.34%  | 0.043% |
| 90  | 14.791 | 2110 | 2114 | 2115 | rBV4 | 2723   | 2780   | 0.19%  | 0.024% |
| 91  | 14.858 | 2122 | 2125 | 2129 | rVB5 | 2467   | 3259   | 0.23%  | 0.028% |
| 92  | 14.962 | 2140 | 2142 | 2145 | rVB4 | 1113   | 887    | 0.06%  | 0.008% |
| 93  | 15.121 | 2166 | 2168 | 2170 | rVV3 | 777    | 818    | 0.06%  | 0.007% |
| 94  | 15.182 | 2174 | 2178 | 2183 | rVV7 | 2974   | 5280   | 0.37%  | 0.046% |
| 95  | 15.261 | 2186 | 2191 | 2195 | rVV6 | 2003   | 3304   | 0.23%  | 0.029% |
| 96  | 15.328 | 2200 | 2202 | 2205 | rVB3 | 760    | 717    | 0.05%  | 0.006% |
| 97  | 15.364 | 2206 | 2208 | 2211 | rBV3 | 724    | 1003   | 0.07%  | 0.009% |
| 98  | 15.499 | 2227 | 2230 | 2231 | rBV3 | 1039   | 1072   | 0.07%  | 0.009% |
| 99  | 15.706 | 2259 | 2264 | 2266 | rBV5 | 684    | 1183   | 0.08%  | 0.010% |
| 100 | 16.047 | 2317 | 2320 | 2324 | rBV3 | 872    | 1321   | 0.09%  | 0.012% |

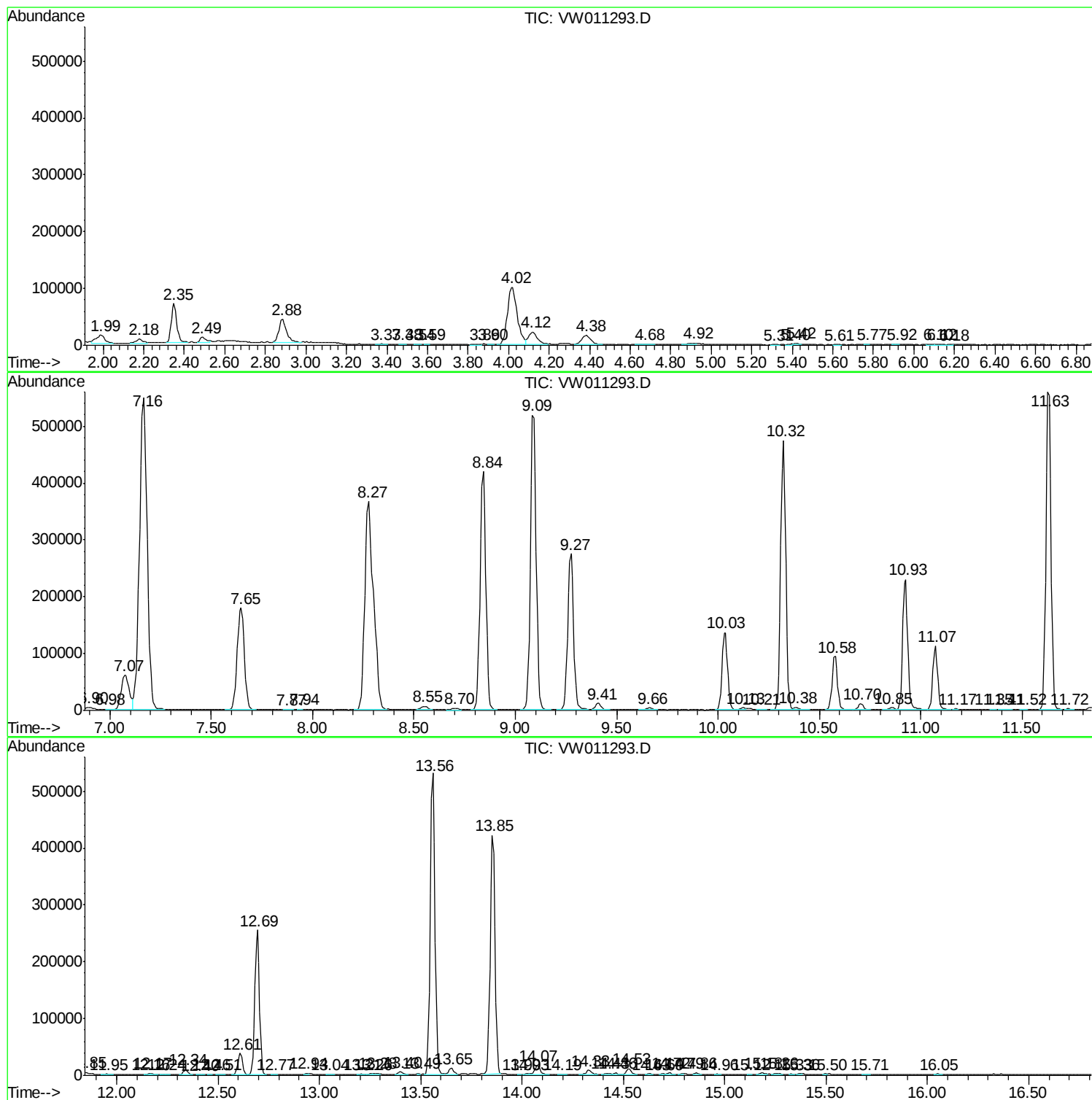
Sum of corrected areas: 11482296

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
Quant Title : VOC Analysis

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



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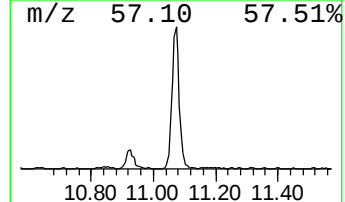
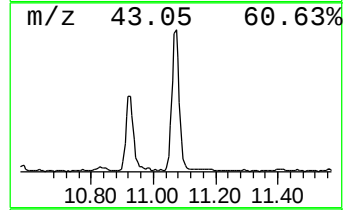
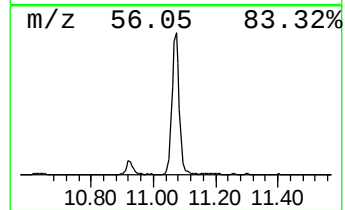
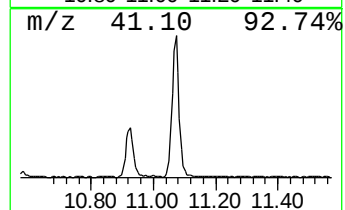
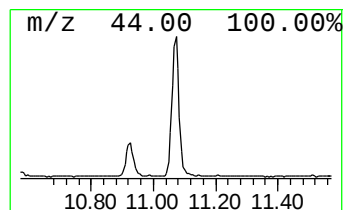
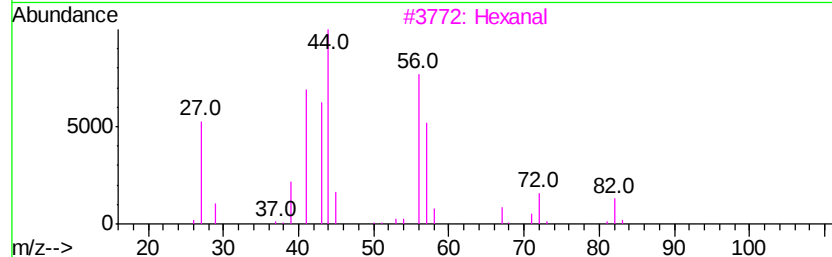
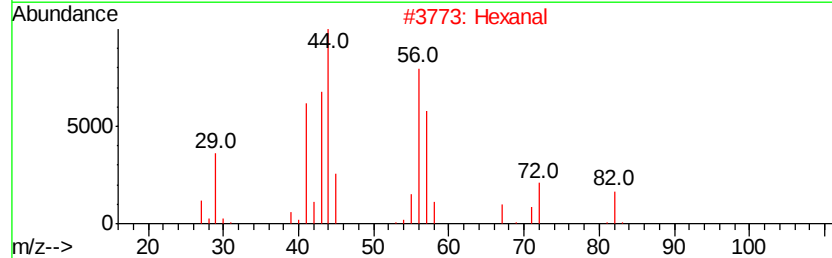
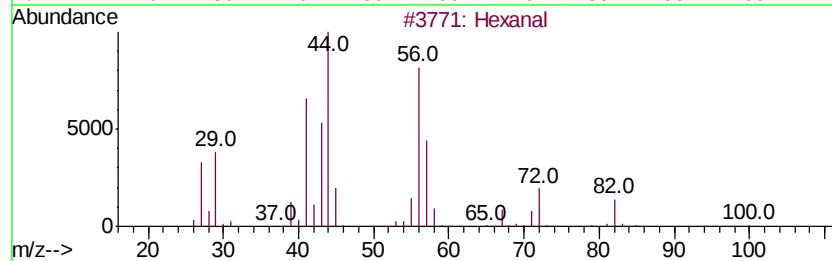
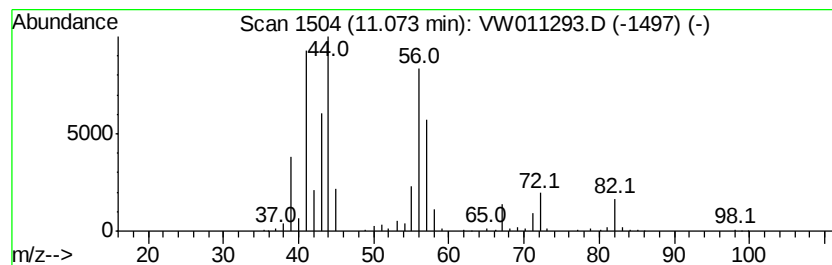
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Hexanal Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 11.07 | 4.80 ug/L | 185112 | Chlorobenzene-d5 | 11.63 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexanal                |              | 100 | C6H12O  | 000066-25-1 | 90   |
| 2       | Hexanal                |              | 100 | C6H12O  | 000066-25-1 | 78   |
| 3       | Hexanal                |              | 100 | C6H12O  | 000066-25-1 | 64   |
| 4       | Hexanal                |              | 100 | C6H12O  | 000066-25-1 | 59   |
| 5       | Cyclobutanol, 2-ethyl- |              | 100 | C6H12O  | 035301-43-0 | 50   |



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| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| Hexanal          | 11.07 | 4.8     | ug/L  | 185112   | 2                     | 11.63 | 965088 | 25.0 |