

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042919\  
 Data File : VW010198.D  
 Acq On : 29 Apr 2019 23:41  
 Operator : SY/VA  
 Sample : K2606-10  
 Misc : 5.20G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A5144

## 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\SOM2WLM042919S.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         | 1.959       | 4             | 9           | 26           | rVB3     | 58349          | 136834        | 8.13%           | 1.052%        |
| 2         | 2.355       | 69            | 74          | 87           | rVB      | 70416          | 173957        | 10.33%          | 1.338%        |
| 3         | 2.885       | 154           | 161         | 176          | rVB      | 57295          | 170063        | 10.10%          | 1.308%        |
| 4         | 3.282       | 224           | 226         | 227          | rBV2     | 4482           | 3420          | 0.20%           | 0.026%        |
| 5         | 3.837       | 313           | 317         | 326          | rVB7     | 3902           | 10212         | 0.61%           | 0.079%        |
| 6         | 4.013       | 334           | 346         | 357          | rBV2     | 112792         | 410356        | 24.38%          | 3.156%        |
| 7         | 4.111       | 357           | 362         | 377          | rVB2     | 32119          | 97112         | 5.77%           | 0.747%        |
| 8         | 4.379       | 395           | 406         | 421          | rVV2     | 31502          | 111923        | 6.65%           | 0.861%        |
| 9         | 4.507       | 423           | 427         | 433          | rVB5     | 928            | 1848          | 0.11%           | 0.014%        |
| 10        | 4.660       | 448           | 452         | 454          | rBV3     | 2484           | 3756          | 0.22%           | 0.029%        |
| 11        | 4.763       | 467           | 469         | 479          | rVB7     | 3425           | 7789          | 0.46%           | 0.060%        |
| 12        | 4.916       | 483           | 494         | 498          | rBV8     | 7443           | 23951         | 1.42%           | 0.184%        |
| 13        | 5.166       | 533           | 535         | 540          | rVV3     | 1190           | 2171          | 0.13%           | 0.017%        |
| 14        | 5.775       | 623           | 635         | 645          | rVV4     | 14917          | 51320         | 3.05%           | 0.395%        |
| 15        | 5.928       | 651           | 660         | 670          | rBV7     | 4573           | 14930         | 0.89%           | 0.115%        |
| 16        | 6.092       | 680           | 687         | 688          | rBV4     | 3199           | 4767          | 0.28%           | 0.037%        |
| 17        | 6.220       | 700           | 708         | 714          | rBV6     | 2717           | 8570          | 0.51%           | 0.066%        |
| 18        | 6.891       | 811           | 818         | 827          | rBV5     | 13213          | 38698         | 2.30%           | 0.298%        |
| 19        | 7.074       | 839           | 848         | 858          | rBV2     | 98569          | 281059        | 16.70%          | 2.161%        |
| 20        | 7.165       | 860           | 863         | 876          | rVV2     | 17428          | 46009         | 2.73%           | 0.354%        |
| 21        | 7.647       | 930           | 942         | 957          | rVB      | 270294         | 663411        | 39.41%          | 5.102%        |
| 22        | 7.927       | 982           | 988         | 989          | rBV4     | 2467           | 4382          | 0.26%           | 0.034%        |
| 23        | 8.000       | 997           | 1000        | 1004         | rBV4     | 1156           | 1929          | 0.11%           | 0.015%        |
| 24        | 8.275       | 1033          | 1045        | 1061         | rBV3     | 444661         | 1683327       | 100.00%         | 12.945%       |
| 25        | 8.452       | 1068          | 1074        | 1080         | rVB5     | 8027           | 18702         | 1.11%           | 0.144%        |
| 26        | 8.567       | 1083          | 1093        | 1103         | rVB6     | 27474          | 84529         | 5.02%           | 0.650%        |
| 27        | 8.701       | 1108          | 1115        | 1126         | rBV5     | 14272          | 40365         | 2.40%           | 0.310%        |
| 28        | 8.842       | 1129          | 1138        | 1151         | rVV      | 521432         | 1036807       | 61.59%          | 7.973%        |
| 29        | 9.049       | 1168          | 1172        | 1173         | rBV4     | 2120           | 2926          | 0.17%           | 0.023%        |
| 30        | 9.092       | 1173          | 1179        | 1184         | rVB7     | 4105           | 9819          | 0.58%           | 0.076%        |
| 31        | 9.275       | 1197          | 1209        | 1225         | rBV      | 375076         | 774052        | 45.98%          | 5.953%        |
| 32        | 9.409       | 1225          | 1231        | 1241         | rVB      | 36545          | 77522         | 4.61%           | 0.596%        |
| 33        | 9.525       | 1246          | 1250        | 1253         | rVB5     | 2272           | 3357          | 0.20%           | 0.026%        |
| 34        | 9.671       | 1265          | 1274        | 1277         | rBV8     | 5226           | 11927         | 0.71%           | 0.092%        |

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 Sampling : 1  
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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\SOM2WLM042919S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 9.848  | 1299 | 1303 | 1304 | rBV3 | 2689   | 2983   | 0.18%  | 0.023% |
| 36 | 9.902  | 1310 | 1312 | 1316 | rVB4 | 2781   | 2979   | 0.18%  | 0.023% |
| 37 | 9.951  | 1316 | 1320 | 1324 | rBV6 | 2782   | 4750   | 0.28%  | 0.037% |
| 38 | 10.031 | 1326 | 1333 | 1341 | rVV  | 180528 | 329271 | 19.56% | 2.532% |
| 39 | 10.122 | 1344 | 1348 | 1353 | rVV8 | 4286   | 8454   | 0.50%  | 0.065% |
| 40 | 10.207 | 1356 | 1362 | 1367 | rVB6 | 7370   | 13726  | 0.82%  | 0.106% |
| 41 | 10.323 | 1372 | 1381 | 1387 | rBV  | 484113 | 862337 | 51.23% | 6.632% |
| 42 | 10.384 | 1387 | 1391 | 1403 | rVB  | 179686 | 346483 | 20.58% | 2.665% |
| 43 | 10.494 | 1403 | 1409 | 1416 | rBV4 | 21299  | 45874  | 2.73%  | 0.353% |
| 44 | 10.579 | 1416 | 1423 | 1428 | rBV  | 129478 | 233824 | 13.89% | 1.798% |
| 45 | 10.707 | 1437 | 1444 | 1453 | rVB  | 138846 | 254558 | 15.12% | 1.958% |
| 46 | 10.774 | 1453 | 1455 | 1462 | rVB4 | 3605   | 5111   | 0.30%  | 0.039% |
| 47 | 10.854 | 1462 | 1468 | 1473 | rBV8 | 4388   | 8902   | 0.53%  | 0.068% |
| 48 | 10.927 | 1473 | 1480 | 1493 | rBV  | 446652 | 764886 | 45.44% | 5.882% |
| 49 | 11.073 | 1497 | 1504 | 1512 | rBV  | 183921 | 299840 | 17.81% | 2.306% |
| 50 | 11.177 | 1519 | 1521 | 1527 | rVB5 | 3144   | 4195   | 0.25%  | 0.032% |
| 51 | 11.335 | 1544 | 1547 | 1548 | rBV3 | 2628   | 2739   | 0.16%  | 0.021% |
| 52 | 11.402 | 1555 | 1558 | 1561 | rBV3 | 2305   | 3879   | 0.23%  | 0.030% |
| 53 | 11.634 | 1587 | 1596 | 1605 | rBV  | 549675 | 949202 | 56.39% | 7.300% |
| 54 | 11.731 | 1605 | 1612 | 1617 | rVV  | 30947  | 56748  | 3.37%  | 0.436% |
| 55 | 11.786 | 1617 | 1621 | 1624 | rVV4 | 9233   | 15288  | 0.91%  | 0.118% |
| 56 | 11.841 | 1624 | 1630 | 1641 | rVB  | 52242  | 121459 | 7.22%  | 0.934% |
| 57 | 11.945 | 1641 | 1647 | 1651 | rBV8 | 6287   | 11890  | 0.71%  | 0.091% |
| 58 | 12.103 | 1668 | 1673 | 1678 | rBV6 | 6504   | 13101  | 0.78%  | 0.101% |
| 59 | 12.164 | 1678 | 1683 | 1691 | rVB3 | 31306  | 61974  | 3.68%  | 0.477% |
| 60 | 12.237 | 1691 | 1695 | 1705 | rVB2 | 11636  | 20444  | 1.21%  | 0.157% |
| 61 | 12.341 | 1705 | 1712 | 1721 | rBV3 | 36467  | 65344  | 3.88%  | 0.503% |
| 62 | 12.463 | 1730 | 1732 | 1735 | rVB4 | 2464   | 2657   | 0.16%  | 0.020% |
| 63 | 12.609 | 1750 | 1756 | 1763 | rBV  | 210275 | 352722 | 20.95% | 2.713% |
| 64 | 12.695 | 1763 | 1770 | 1778 | rVV  | 348297 | 566777 | 33.67% | 4.359% |
| 65 | 12.810 | 1785 | 1789 | 1792 | rVB2 | 3583   | 5223   | 0.31%  | 0.040% |
| 66 | 12.871 | 1794 | 1799 | 1800 | rBV2 | 10158  | 14944  | 0.89%  | 0.115% |
| 67 | 12.939 | 1806 | 1810 | 1813 | rBV3 | 12731  | 15923  | 0.95%  | 0.122% |
| 68 | 12.969 | 1813 | 1815 | 1823 | rVB2 | 13975  | 23441  | 1.39%  | 0.180% |
| 69 | 13.048 | 1825 | 1828 | 1831 | rBV4 | 3870   | 5975   | 0.35%  | 0.046% |
| 70 | 13.103 | 1831 | 1837 | 1842 | rBV6 | 9546   | 18990  | 1.13%  | 0.146% |
| 71 | 13.256 | 1857 | 1862 | 1865 | rBV3 | 10845  | 16955  | 1.01%  | 0.130% |

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Instrument :  
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 ClientSampleId :  
 A5144

## 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\SOM2WLM042919S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.292 | 1866 | 1868 | 1875 | rVB5 | 11240  | 19656  | 1.17%  | 0.151% |
| 73  | 13.402 | 1880 | 1886 | 1893 | rBV3 | 24863  | 41521  | 2.47%  | 0.319% |
| 74  | 13.469 | 1895 | 1897 | 1900 | rBV4 | 2031   | 1993   | 0.12%  | 0.015% |
| 75  | 13.560 | 1906 | 1912 | 1922 | rBV  | 316448 | 509668 | 30.28% | 3.919% |
| 76  | 13.646 | 1923 | 1926 | 1933 | rVB4 | 16384  | 27116  | 1.61%  | 0.209% |
| 77  | 13.755 | 1941 | 1944 | 1950 | rBV7 | 6042   | 11676  | 0.69%  | 0.090% |
| 78  | 13.853 | 1954 | 1960 | 1967 | rBV  | 263627 | 450376 | 26.76% | 3.464% |
| 79  | 14.030 | 1985 | 1989 | 1990 | rBV4 | 5625   | 8894   | 0.53%  | 0.068% |
| 80  | 14.079 | 1992 | 1997 | 2005 | rVB  | 80609  | 138379 | 8.22%  | 1.064% |
| 81  | 14.207 | 2014 | 2018 | 2019 | rBV4 | 3844   | 4693   | 0.28%  | 0.036% |
| 82  | 14.329 | 2033 | 2038 | 2046 | rBV5 | 23874  | 38599  | 2.29%  | 0.297% |
| 83  | 14.426 | 2051 | 2054 | 2059 | rVB5 | 5334   | 7989   | 0.47%  | 0.061% |
| 84  | 14.499 | 2062 | 2066 | 2067 | rBV4 | 4107   | 4208   | 0.25%  | 0.032% |
| 85  | 14.530 | 2067 | 2071 | 2075 | rVB3 | 11659  | 16004  | 0.95%  | 0.123% |
| 86  | 14.621 | 2082 | 2086 | 2094 | rVB6 | 9465   | 19153  | 1.14%  | 0.147% |
| 87  | 14.700 | 2094 | 2099 | 2100 | rBV5 | 5413   | 7362   | 0.44%  | 0.057% |
| 88  | 14.798 | 2110 | 2115 | 2120 | rBV7 | 5167   | 10802  | 0.64%  | 0.083% |
| 89  | 14.963 | 2138 | 2142 | 2145 | rVB5 | 5421   | 8387   | 0.50%  | 0.064% |
| 90  | 15.188 | 2174 | 2179 | 2185 | rVV6 | 12411  | 19083  | 1.13%  | 0.147% |
| 91  | 15.255 | 2186 | 2190 | 2196 | rVB5 | 9369   | 17396  | 1.03%  | 0.134% |
| 92  | 15.371 | 2205 | 2209 | 2214 | rBV2 | 8424   | 14096  | 0.84%  | 0.108% |
| 93  | 15.505 | 2225 | 2231 | 2237 | rBV  | 13944  | 28426  | 1.69%  | 0.219% |
| 94  | 15.731 | 2264 | 2268 | 2270 | rBV4 | 2161   | 3409   | 0.20%  | 0.026% |
| 95  | 15.810 | 2279 | 2281 | 2285 | rVV4 | 2047   | 2554   | 0.15%  | 0.020% |
| 96  | 16.096 | 2326 | 2328 | 2334 | rVB6 | 3798   | 6491   | 0.39%  | 0.050% |
| 97  | 16.188 | 2340 | 2343 | 2345 | rBV4 | 2342   | 2871   | 0.17%  | 0.022% |
| 98  | 16.450 | 2381 | 2386 | 2393 | rBV3 | 8663   | 20434  | 1.21%  | 0.157% |
| 99  | 16.657 | 2415 | 2420 | 2425 | rVB8 | 6269   | 13731  | 0.82%  | 0.106% |
| 100 | 16.724 | 2428 | 2431 | 2434 | rBV4 | 1910   | 2808   | 0.17%  | 0.022% |

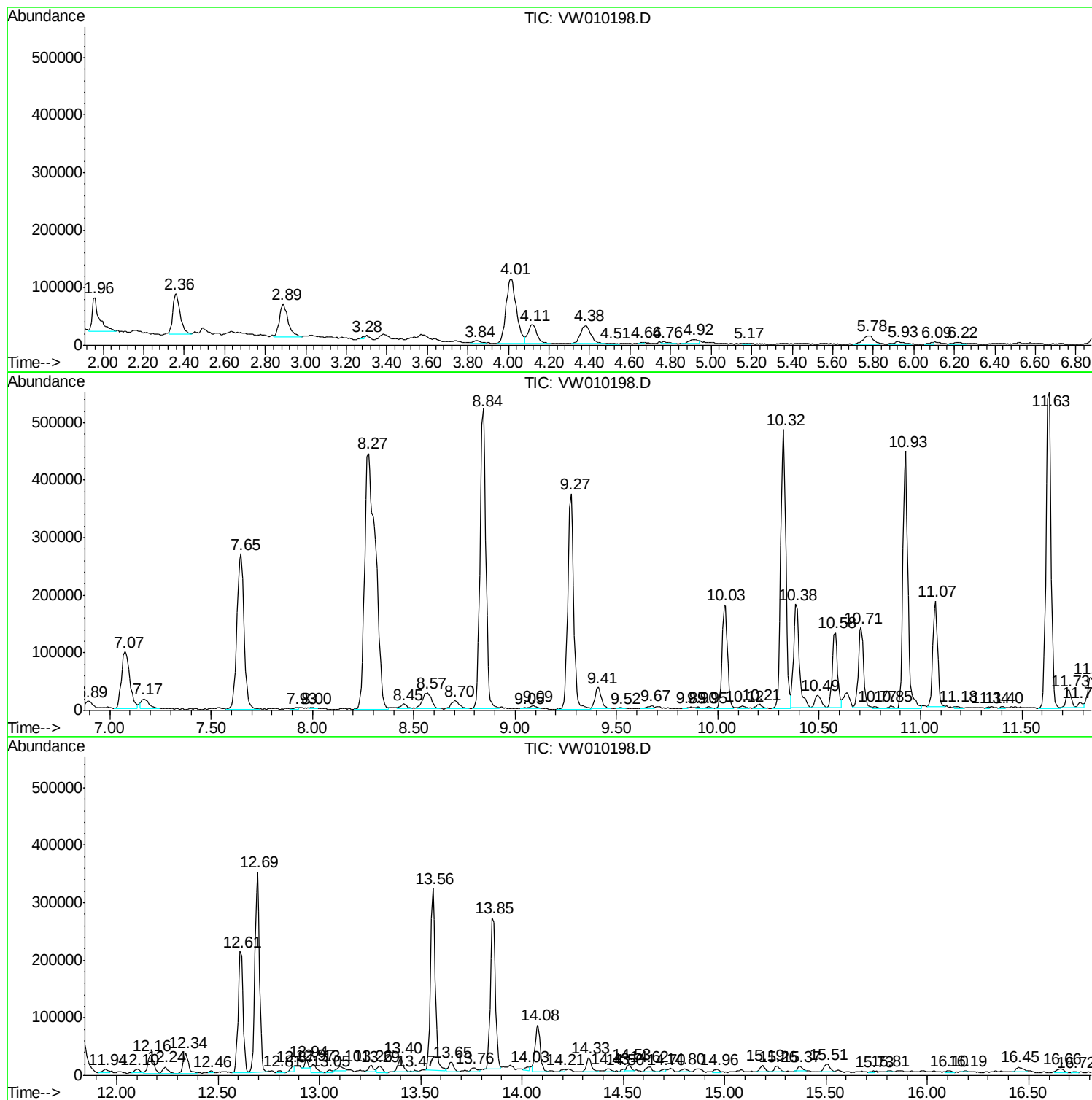
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW042919\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

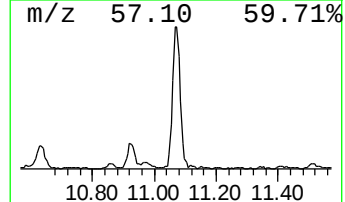
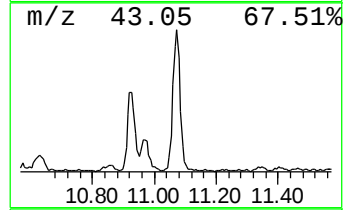
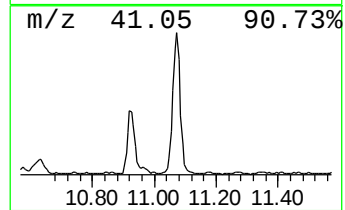
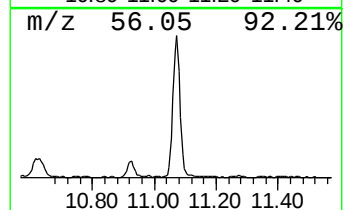
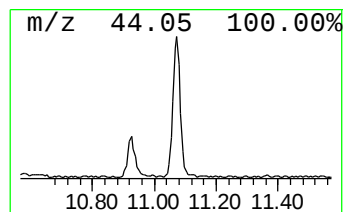
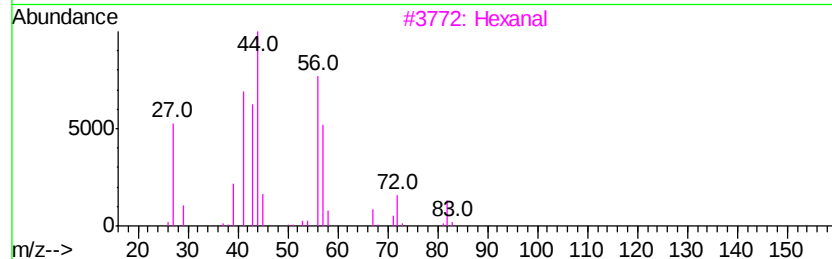
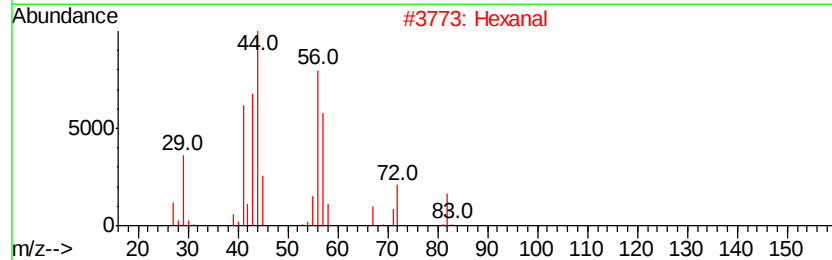
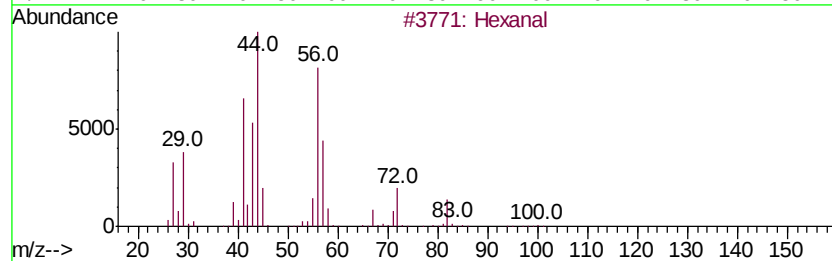
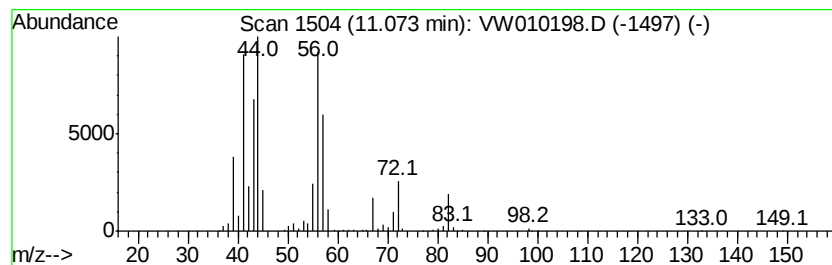
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Hexanal Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 11.07 | 7.90 ug/L | 299840 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Hexanal            | 100 | C6H12O  | 000066-25-1 | 72   |
| 2    |    | Hexanal            | 100 | C6H12O  | 000066-25-1 | 64   |
| 3    |    | Hexanal            | 100 | C6H12O  | 000066-25-1 | 59   |
| 4    |    | Hexanal            | 100 | C6H12O  | 000066-25-1 | 47   |
| 5    |    | Butanal, 3-methyl- | 86  | C5H10O  | 000590-86-3 | 38   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

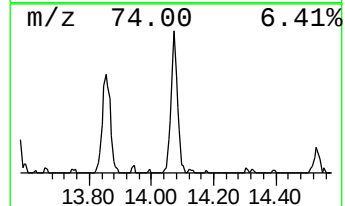
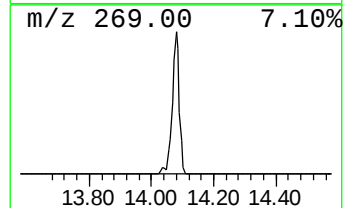
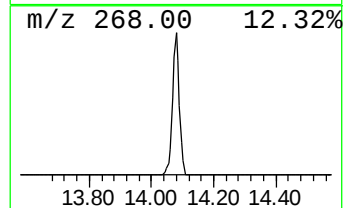
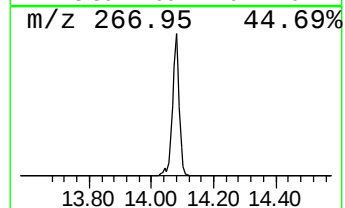
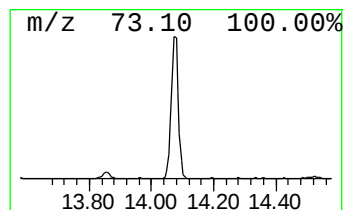
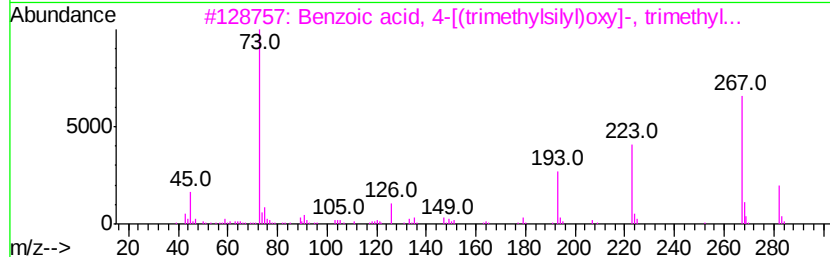
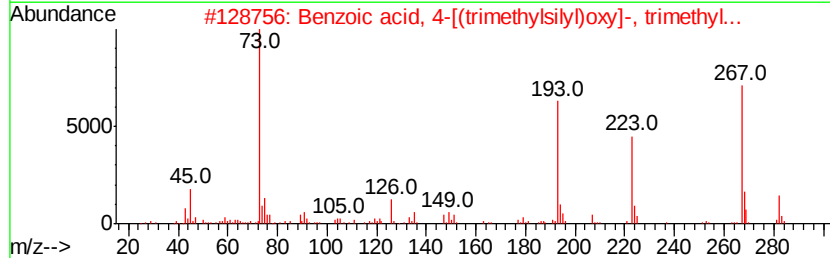
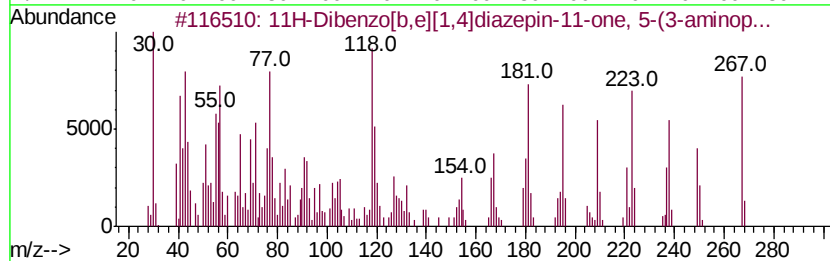
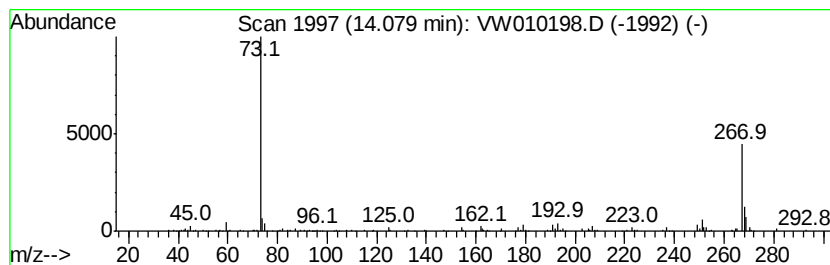
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 unknown-01 Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.08 | 6.79 ug/L | 138379 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                             | MW  | MolForm     | CAS#         | Qual |
|------|----|------------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 11H-Dibenzo[b,e][1,4]diazepin-11...      | 267 | C16H17N3O   | 013450-73-2  | 46   |
| 2    |    | Benzoic acid, 4-[(trimethylsilyl)...     | 282 | C13H22O3Si2 | 002078-13-9  | 39   |
| 3    |    | Benzoic acid, 4-[(trimethylsilyl)...     | 282 | C13H22O3Si2 | 002078-13-9  | 38   |
| 4    |    | 4-Methylcatechol, bis(trimethylsilyl)... | 268 | C13H24O2Si2 | 1000332-79-9 | 12   |
| 5    |    | Benzeneacetic acid, trimethylsilyl...    | 208 | C11H16O2Si  | 002078-18-4  | 9    |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW042919\  
Data File : VW010198.D  
Acq On : 29 Apr 2019 23:41  
Operator : SY/VA  
Sample : K2606-10  
Misc : 5.20G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A5144

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
Quant Title : VOC Analysis

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

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| Hexanal          | 11.07 | 7.9     | ug/L  | 299840   | 2                     | 11.63 | 949202 | 25.0 |
| unknown-01       | 14.08 | 6.8     | ug/L  | 138379   | 3                     | 13.56 | 509668 | 25.0 |