

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111519\  
 Data File : VW014043.D  
 Acq On : 15 Nov 2019 16:13  
 Operator : SY/VA  
 Sample : K5855-01  
 Misc : 9.40G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAQF3

## 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\SOM2WLM111119S.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 2.154    | 36         | 41       | 60        | rVB   | 17366       | 51952      | 3.23%        | 0.474%     |
| 2      | 2.349    | 67         | 73       | 84        | rVB   | 109936      | 201837     | 12.54%       | 1.842%     |
| 3      | 2.489    | 92         | 96       | 102       | rBV   | 9455        | 15731      | 0.98%        | 0.144%     |
| 4      | 2.824    | 147        | 151      | 153       | rBV5  | 1491        | 1956       | 0.12%        | 0.018%     |
| 5      | 2.885    | 154        | 161      | 173       | rVV2  | 77166       | 186197     | 11.57%       | 1.700%     |
| 6      | 3.385    | 234        | 243      | 254       | rBV4  | 8419        | 23189      | 1.44%        | 0.212%     |
| 7      | 3.513    | 261        | 264      | 266       | rBV4  | 1054        | 1375       | 0.09%        | 0.013%     |
| 8      | 3.727    | 292        | 299      | 303       | rBV4  | 1468        | 3552       | 0.22%        | 0.032%     |
| 9      | 3.843    | 311        | 318      | 320       | rBV4  | 811         | 1557       | 0.10%        | 0.014%     |
| 10     | 3.885    | 320        | 325      | 326       | rBV3  | 3055        | 4056       | 0.25%        | 0.037%     |
| 11     | 4.013    | 332        | 346      | 359       | rBV2  | 168997      | 610187     | 37.93%       | 5.570%     |
| 12     | 4.385    | 397        | 407      | 417       | rBV2  | 8185        | 25385      | 1.58%        | 0.232%     |
| 13     | 4.916    | 483        | 494      | 499       | rBV4  | 6405        | 20650      | 1.28%        | 0.188%     |
| 14     | 5.415    | 573        | 576      | 578       | rBV3  | 851         | 1207       | 0.08%        | 0.011%     |
| 15     | 5.781    | 626        | 636      | 637       | rBV4  | 2460        | 4987       | 0.31%        | 0.046%     |
| 16     | 5.928    | 652        | 660      | 661       | rBV3  | 3560        | 5933       | 0.37%        | 0.054%     |
| 17     | 6.110    | 682        | 690      | 694       | rBV3  | 1881        | 4852       | 0.30%        | 0.044%     |
| 18     | 6.287    | 716        | 719      | 723       | rVV3  | 941         | 1580       | 0.10%        | 0.014%     |
| 19     | 6.891    | 807        | 818      | 829       | rBV2  | 43071       | 121567     | 7.56%        | 1.110%     |
| 20     | 6.982    | 831        | 833      | 838       | rVB4  | 1740        | 2501       | 0.16%        | 0.023%     |
| 21     | 7.074    | 838        | 848      | 856       | rBV   | 62066       | 177564     | 11.04%       | 1.621%     |
| 22     | 7.647    | 930        | 942      | 953       | rBV   | 259946      | 648124     | 40.28%       | 5.916%     |
| 23     | 7.952    | 983        | 992      | 1000      | rVB7  | 3020        | 8530       | 0.53%        | 0.078%     |
| 24     | 8.159    | 1020       | 1026     | 1031      | rBV6  | 1052        | 1678       | 0.10%        | 0.015%     |
| 25     | 8.269    | 1034       | 1044     | 1061      | rBV2  | 528016      | 1608915    | 100.00%      | 14.686%    |
| 26     | 8.543    | 1083       | 1089     | 1090      | rBV2  | 3518        | 4541       | 0.28%        | 0.041%     |
| 27     | 8.695    | 1108       | 1114     | 1124      | rBV6  | 4290        | 12967      | 0.81%        | 0.118%     |
| 28     | 8.842    | 1129       | 1138     | 1150      | rBV   | 361191      | 719513     | 44.72%       | 6.568%     |
| 29     | 9.049    | 1165       | 1172     | 1173      | rBV2  | 2658        | 4618       | 0.29%        | 0.042%     |
| 30     | 9.085    | 1173       | 1178     | 1185      | rVB7  | 6401        | 14601      | 0.91%        | 0.133%     |
| 31     | 9.274    | 1193       | 1209     | 1216      | rBV   | 362621      | 755013     | 46.93%       | 6.892%     |
| 32     | 9.329    | 1216       | 1218     | 1224      | rVV6  | 7369        | 13403      | 0.83%        | 0.122%     |
| 33     | 9.409    | 1224       | 1231     | 1241      | rVB   | 39652       | 78650      | 4.89%        | 0.718%     |
| 34     | 9.598    | 1256       | 1262     | 1264      | rBV2  | 804         | 1047       | 0.07%        | 0.010%     |

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Integrator: RTE  
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 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\SOM2WLM111119S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 35 | 9.652  | 1264 | 1271 | 1278 | rVB7 | 2868   | 6630    | 0.41%  | 0.061%  |
| 36 | 9.762  | 1283 | 1289 | 1291 | rVB4 | 913    | 1503    | 0.09%  | 0.014%  |
| 37 | 9.884  | 1305 | 1309 | 1314 | rBV4 | 1407   | 2507    | 0.16%  | 0.023%  |
| 38 | 10.030 | 1326 | 1333 | 1345 | rBV  | 194606 | 355572  | 22.10% | 3.246%  |
| 39 | 10.116 | 1345 | 1347 | 1354 | rVB4 | 2240   | 3942    | 0.25%  | 0.036%  |
| 40 | 10.219 | 1358 | 1364 | 1365 | rBV4 | 1035   | 1581    | 0.10%  | 0.014%  |
| 41 | 10.238 | 1365 | 1367 | 1371 | rVB4 | 719    | 1029    | 0.06%  | 0.009%  |
| 42 | 10.323 | 1373 | 1381 | 1387 | rBV  | 701056 | 1223894 | 76.07% | 11.172% |
| 43 | 10.390 | 1387 | 1392 | 1398 | rVB2 | 41966  | 74987   | 4.66%  | 0.684%  |
| 44 | 10.494 | 1403 | 1409 | 1415 | rBV7 | 4446   | 9575    | 0.60%  | 0.087%  |
| 45 | 10.573 | 1415 | 1422 | 1436 | rBV  | 127749 | 242020  | 15.04% | 2.209%  |
| 46 | 10.695 | 1439 | 1442 | 1448 | rVV3 | 5279   | 9330    | 0.58%  | 0.085%  |
| 47 | 10.750 | 1449 | 1451 | 1461 | rVB5 | 3132   | 5860    | 0.36%  | 0.053%  |
| 48 | 10.860 | 1461 | 1469 | 1473 | rBV5 | 7076   | 13636   | 0.85%  | 0.124%  |
| 49 | 10.921 | 1473 | 1479 | 1494 | rVB  | 250462 | 418742  | 26.03% | 3.822%  |
| 50 | 11.067 | 1497 | 1503 | 1517 | rBV  | 313555 | 518778  | 32.24% | 4.735%  |
| 51 | 11.286 | 1536 | 1539 | 1542 | rVB5 | 559    | 790     | 0.05%  | 0.007%  |
| 52 | 11.408 | 1557 | 1559 | 1561 | rBV2 | 709    | 717     | 0.04%  | 0.007%  |
| 53 | 11.512 | 1571 | 1576 | 1578 | rBV3 | 921    | 1132    | 0.07%  | 0.010%  |
| 54 | 11.628 | 1587 | 1595 | 1604 | rBV  | 452865 | 766495  | 47.64% | 6.997%  |
| 55 | 11.725 | 1608 | 1611 | 1618 | rVB3 | 6515   | 10829   | 0.67%  | 0.099%  |
| 56 | 11.835 | 1620 | 1629 | 1634 | rBV4 | 7775   | 18764   | 1.17%  | 0.171%  |
| 57 | 11.945 | 1641 | 1647 | 1656 | rBV6 | 9193   | 19822   | 1.23%  | 0.181%  |
| 58 | 12.164 | 1678 | 1683 | 1691 | rVB8 | 3626   | 6456    | 0.40%  | 0.059%  |
| 59 | 12.237 | 1692 | 1695 | 1696 | rBV3 | 1096   | 1289    | 0.08%  | 0.012%  |
| 60 | 12.335 | 1705 | 1711 | 1720 | rVB  | 38520  | 63700   | 3.96%  | 0.581%  |
| 61 | 12.469 | 1728 | 1733 | 1737 | rVB6 | 2957   | 4926    | 0.31%  | 0.045%  |
| 62 | 12.609 | 1750 | 1756 | 1763 | rVB  | 66543  | 111038  | 6.90%  | 1.014%  |
| 63 | 12.688 | 1763 | 1769 | 1778 | rBV  | 248876 | 420581  | 26.14% | 3.839%  |
| 64 | 12.762 | 1778 | 1781 | 1789 | rVB5 | 1805   | 3066    | 0.19%  | 0.028%  |
| 65 | 12.865 | 1793 | 1798 | 1800 | rBV  | 1542   | 2164    | 0.13%  | 0.020%  |
| 66 | 12.932 | 1805 | 1809 | 1816 | rVB6 | 4213   | 7470    | 0.46%  | 0.068%  |
| 67 | 13.048 | 1820 | 1828 | 1832 | rBV6 | 2263   | 4821    | 0.30%  | 0.044%  |
| 68 | 13.097 | 1832 | 1836 | 1841 | rBV4 | 7211   | 11342   | 0.70%  | 0.104%  |
| 69 | 13.152 | 1841 | 1845 | 1849 | rBV5 | 3080   | 5559    | 0.35%  | 0.051%  |
| 70 | 13.249 | 1856 | 1861 | 1864 | rBV3 | 3643   | 5810    | 0.36%  | 0.053%  |
| 71 | 13.396 | 1880 | 1885 | 1894 | rBV4 | 12657  | 22888   | 1.42%  | 0.209%  |

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 MSVOA\_W  
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## 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\SOM2WLM111119S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 13.469 | 1894 | 1897 | 1899 | rBV4 | 1890   | 2465   | 0.15%  | 0.023% |
| 73  | 13.554 | 1905 | 1911 | 1921 | rBV  | 325284 | 518240 | 32.21% | 4.731% |
| 74  | 13.646 | 1921 | 1926 | 1935 | rVB  | 24049  | 39848  | 2.48%  | 0.364% |
| 75  | 13.719 | 1935 | 1938 | 1940 | rVB3 | 870    | 1051   | 0.07%  | 0.010% |
| 76  | 13.755 | 1940 | 1944 | 1946 | rBV5 | 1188   | 1821   | 0.11%  | 0.017% |
| 77  | 13.853 | 1953 | 1960 | 1968 | rBV  | 325084 | 537324 | 33.40% | 4.905% |
| 78  | 14.072 | 1990 | 1996 | 2006 | rVB  | 31750  | 54904  | 3.41%  | 0.501% |
| 79  | 14.219 | 2016 | 2020 | 2021 | rBV3 | 1234   | 1314   | 0.08%  | 0.012% |
| 80  | 14.328 | 2033 | 2038 | 2046 | rVV5 | 9763   | 17143  | 1.07%  | 0.156% |
| 81  | 14.389 | 2046 | 2048 | 2051 | rVV4 | 984    | 959    | 0.06%  | 0.009% |
| 82  | 14.426 | 2051 | 2054 | 2056 | rVV3 | 933    | 901    | 0.06%  | 0.008% |
| 83  | 14.530 | 2066 | 2071 | 2074 | rVB4 | 1496   | 2169   | 0.13%  | 0.020% |
| 84  | 14.615 | 2083 | 2085 | 2088 | rVV3 | 784    | 969    | 0.06%  | 0.009% |
| 85  | 14.719 | 2097 | 2102 | 2108 | rVV7 | 2022   | 3749   | 0.23%  | 0.034% |
| 86  | 14.956 | 2134 | 2141 | 2148 | rVB7 | 2402   | 4642   | 0.29%  | 0.042% |
| 87  | 15.182 | 2173 | 2178 | 2179 | rVB3 | 1028   | 1587   | 0.10%  | 0.014% |
| 88  | 15.212 | 2179 | 2183 | 2184 | rBV3 | 946    | 1160   | 0.07%  | 0.011% |
| 89  | 15.249 | 2188 | 2189 | 2191 | rBV2 | 860    | 722    | 0.04%  | 0.007% |
| 90  | 15.365 | 2204 | 2208 | 2211 | rBV4 | 757    | 1088   | 0.07%  | 0.010% |
| 91  | 15.408 | 2211 | 2215 | 2221 | rVB6 | 1461   | 2586   | 0.16%  | 0.024% |
| 92  | 15.493 | 2223 | 2229 | 2236 | rVV  | 14454  | 25952  | 1.61%  | 0.237% |
| 93  | 15.804 | 2277 | 2280 | 2284 | rVB3 | 1952   | 2275   | 0.14%  | 0.021% |
| 94  | 15.840 | 2284 | 2286 | 2288 | rBV2 | 1007   | 951    | 0.06%  | 0.009% |
| 95  | 15.859 | 2288 | 2289 | 2292 | rVB3 | 1131   | 734    | 0.05%  | 0.007% |
| 96  | 15.889 | 2292 | 2294 | 2297 | rBV3 | 838    | 830    | 0.05%  | 0.008% |
| 97  | 15.944 | 2302 | 2303 | 2306 | rBV2 | 929    | 1022   | 0.06%  | 0.009% |
| 98  | 16.261 | 2353 | 2355 | 2357 | rBV2 | 849    | 806    | 0.05%  | 0.007% |
| 99  | 16.328 | 2360 | 2366 | 2374 | rVV9 | 4226   | 8398   | 0.52%  | 0.077% |
| 100 | 16.639 | 2415 | 2417 | 2421 | rVB4 | 804    | 901    | 0.06%  | 0.008% |

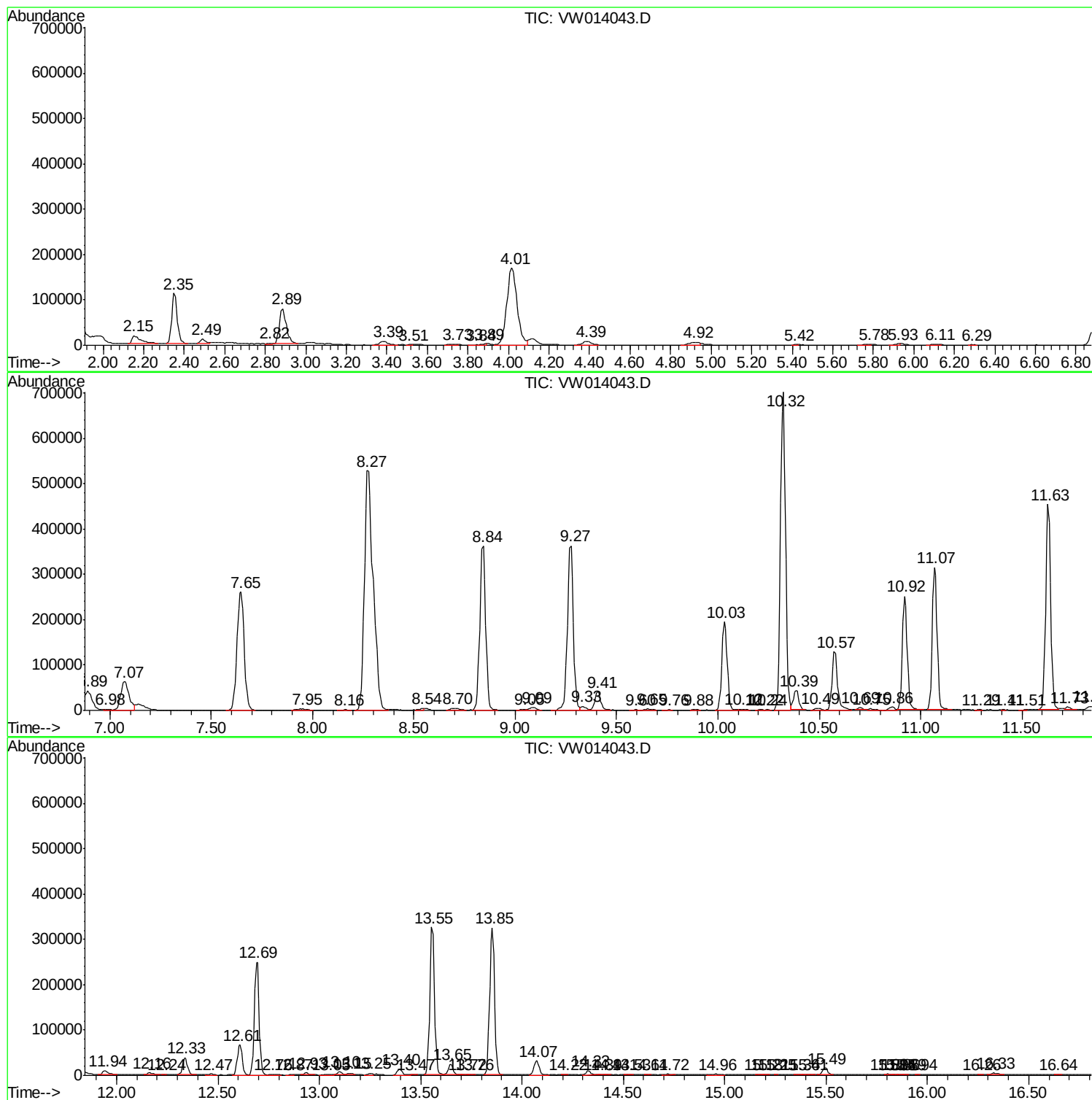
Sum of corrected areas: 10955171

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\  
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Instrument :  
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GAQF3

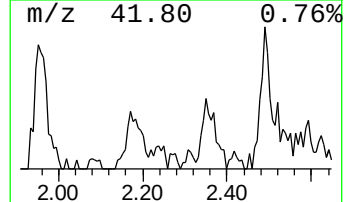
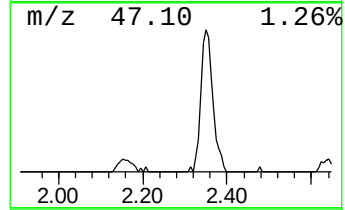
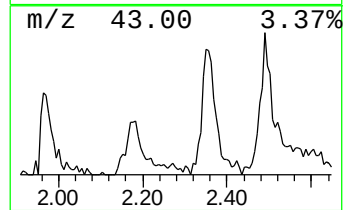
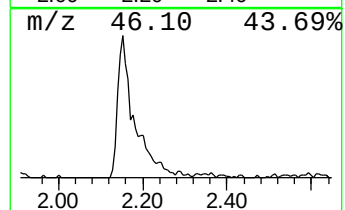
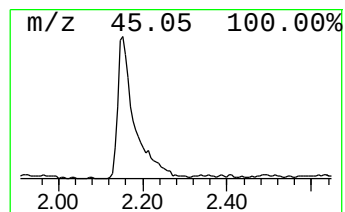
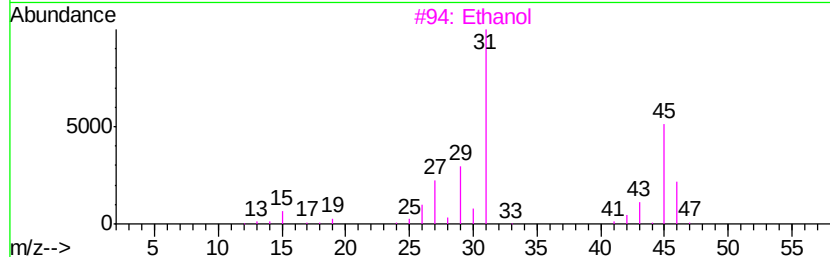
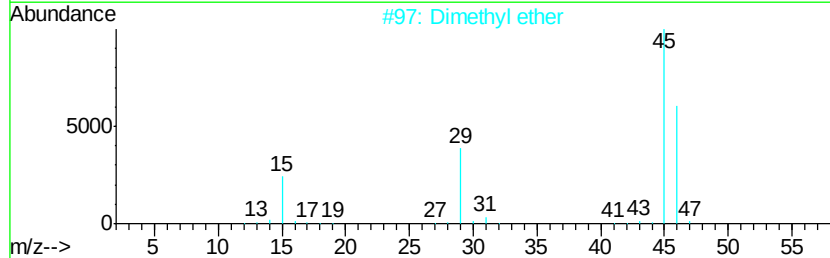
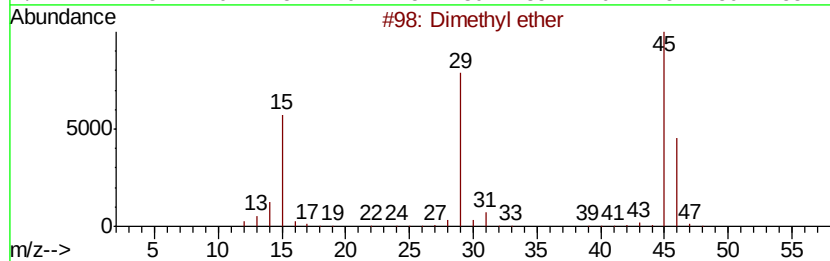
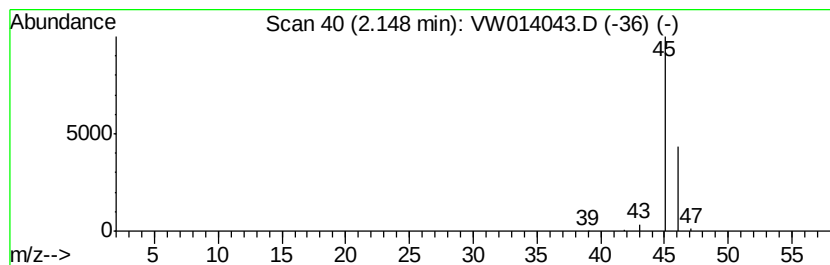
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

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

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Peak Number 1 Dimethyl ether Concentration Rank 9

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.15 | 1.81 ug/L | 51952 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|----------------|----|---------|-------------|------|
| 1    | 5  | Dimethyl ether | 46 | C2H6O   | 000115-10-6 | 9    |
| 2    |    | Dimethyl ether | 46 | C2H6O   | 000115-10-6 | 9    |
| 3    |    | Ethanol        | 46 | C2H6O   | 000064-17-5 | 7    |
| 4    |    | Ethanol        | 46 | C2H6O   | 000064-17-5 | 7    |
| 5    |    | Ethanol        | 46 | C2H6O   | 000064-17-5 | 4    |



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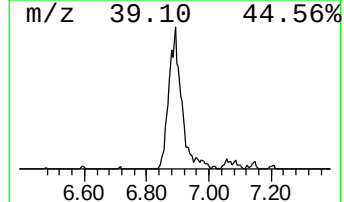
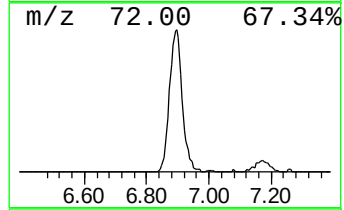
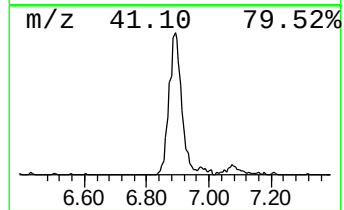
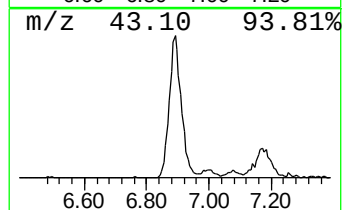
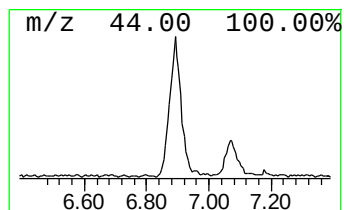
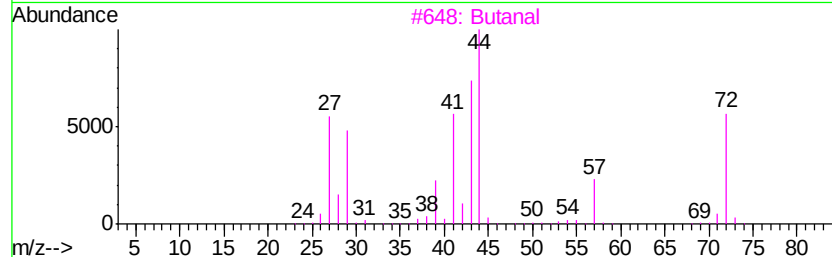
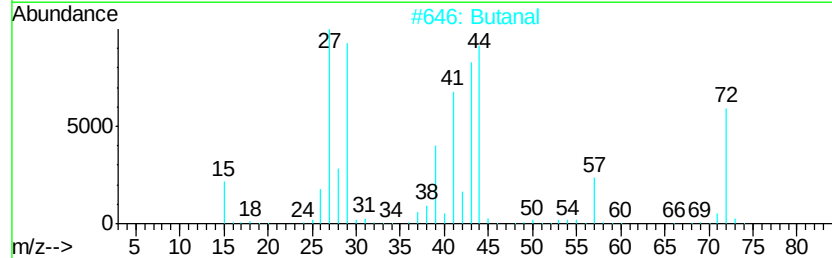
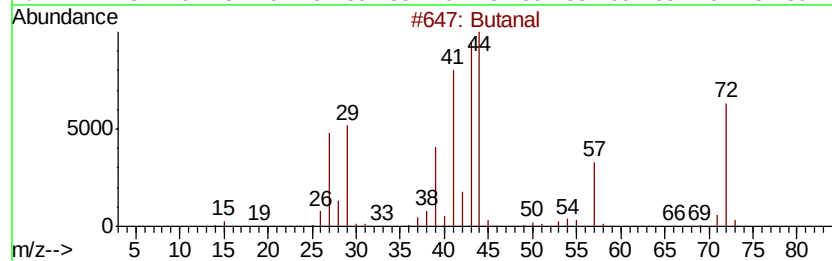
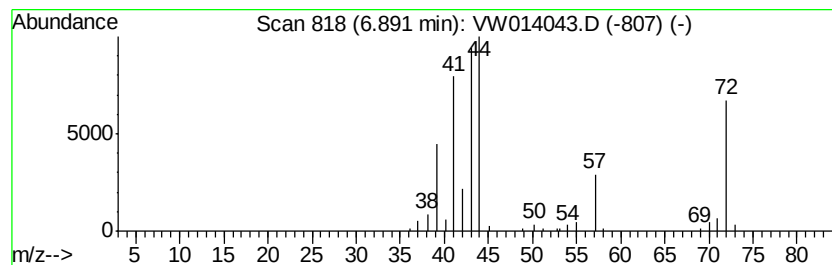
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Butanal Concentration Rank 4

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 6.89 | 4.22 ug/L | 121567 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------|----|---------|-------------|------|
| 1    | 5  | Butanal               | 72 | C4H8O   | 000123-72-8 | 91   |
| 2    |    | Butanal               | 72 | C4H8O   | 000123-72-8 | 91   |
| 3    |    | Butanal               | 72 | C4H8O   | 000123-72-8 | 68   |
| 4    |    | Butanal               | 72 | C4H8O   | 000123-72-8 | 64   |
| 5    |    | 1-Propene, 3-methoxy- | 72 | C4H8O   | 000627-40-7 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\  
Data File : VW014043.D  
Acq On : 15 Nov 2019 16:13  
Operator : SY/VA  
Sample : K5855-01  
Misc : 9.40G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAQF3

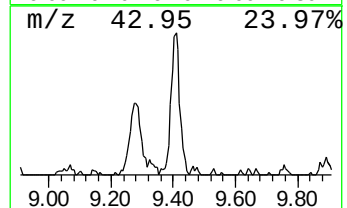
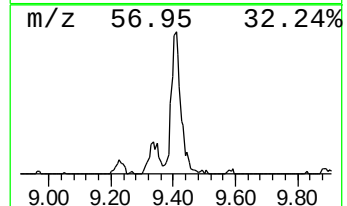
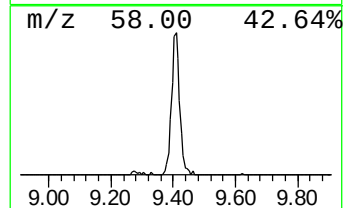
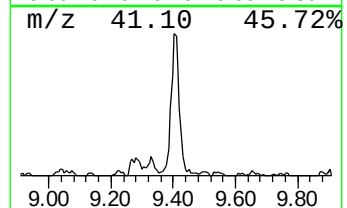
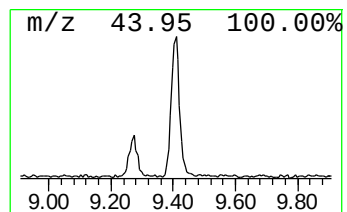
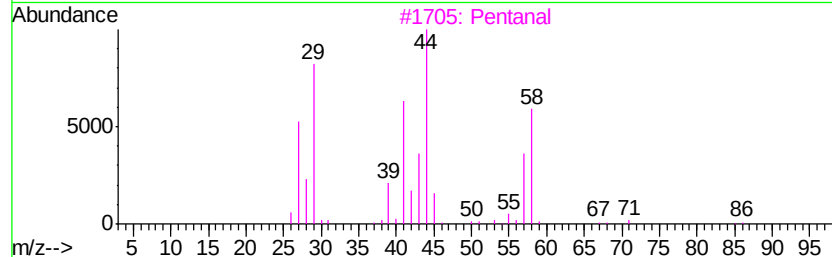
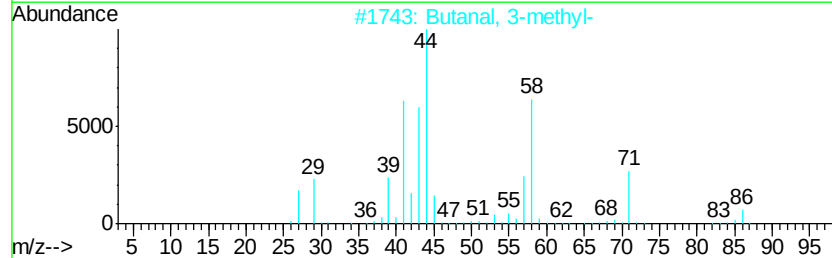
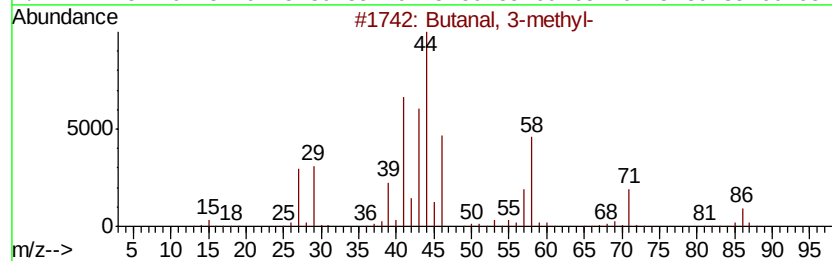
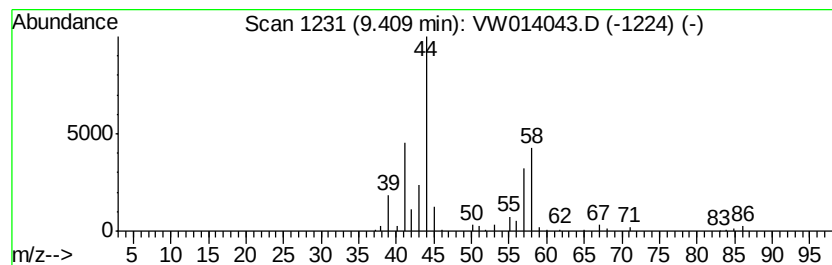
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 Butanal, 3-methyl- Concentration Rank 5

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 9.41 | 2.73 ug/L | 78650 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butanal, 3-methyl-          | 86  | C5H10O  | 000590-86-3 | 83   |
| 2    |    | Butanal, 3-methyl-          | 86  | C5H10O  | 000590-86-3 | 74   |
| 3    |    | Pentanal                    | 86  | C5H10O  | 000110-62-3 | 64   |
| 4    |    | Pentanal                    | 86  | C5H10O  | 000110-62-3 | 64   |
| 5    |    | 1-Octadecanamine, N-methyl- | 283 | C19H41N | 002439-55-6 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\  
Data File : VW014043.D  
Acq On : 15 Nov 2019 16:13  
Operator : SY/VA  
Sample : K5855-01  
Misc : 9.40G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAQF3

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

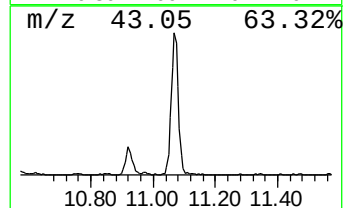
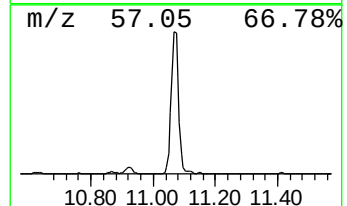
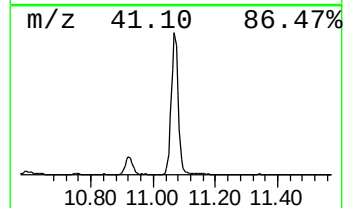
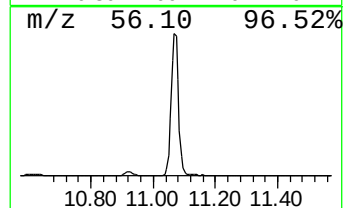
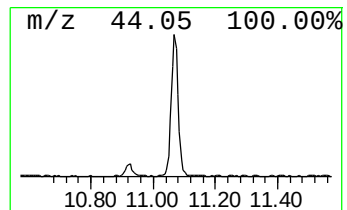
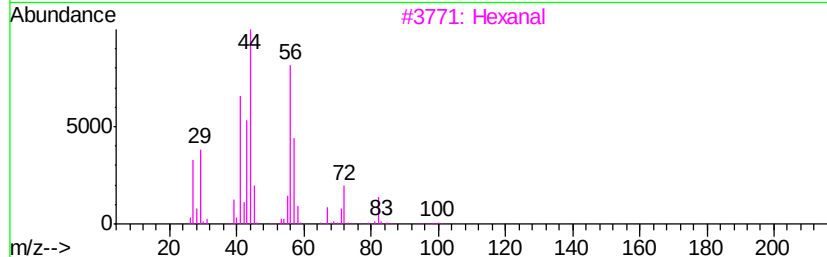
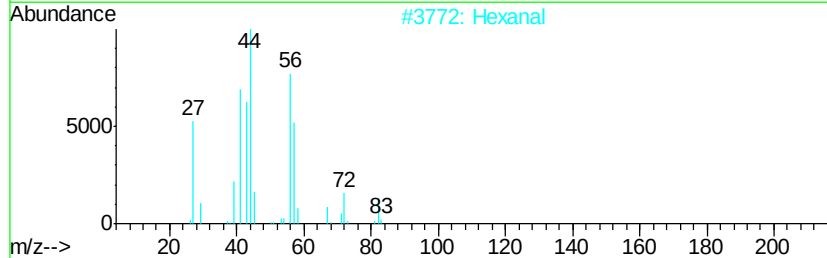
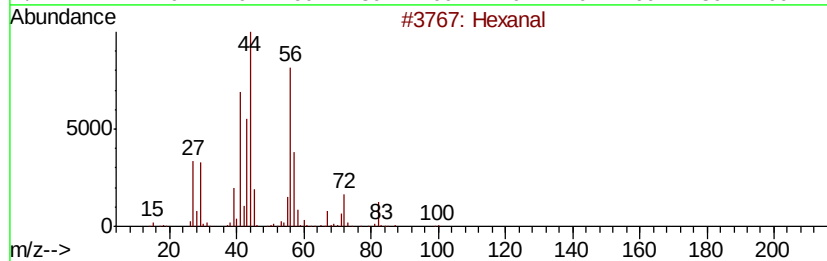
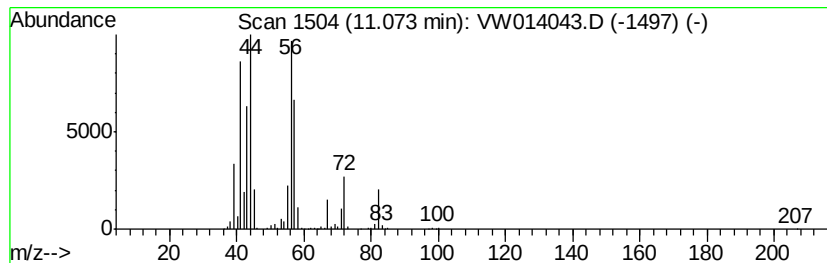
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Hexanal Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 11.07 | 16.92 ug/L | 518778 | Chlorobenzene-d5 | 11.63 |

| Hit# of | 5              | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------|--------------|-----|---------|-------------|------|
| 1       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 91   |
| 2       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 90   |
| 3       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 90   |
| 4       | Hexanal        |              | 100 | C6H12O  | 000066-25-1 | 90   |
| 5       | Glutaraldehyde |              | 100 | C5H8O2  | 000111-30-8 | 43   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\  
Data File : VW014043.D  
Acq On : 15 Nov 2019 16:13  
Operator : SY/VA  
Sample : K5855-01  
Misc : 9.40G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAQF3

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

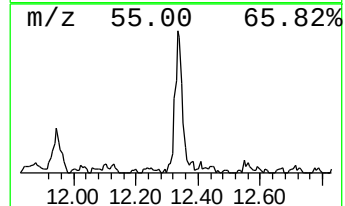
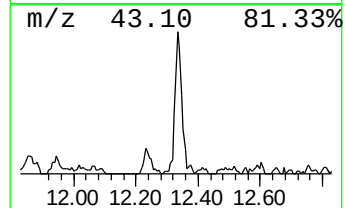
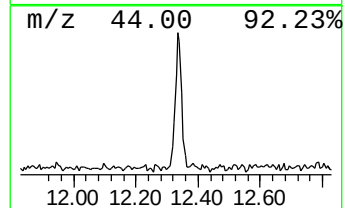
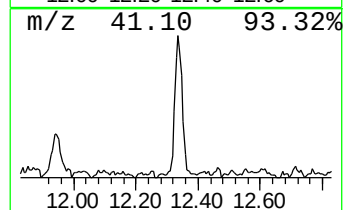
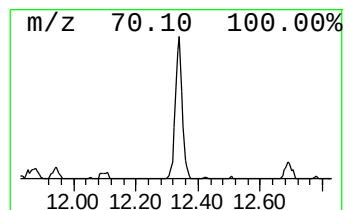
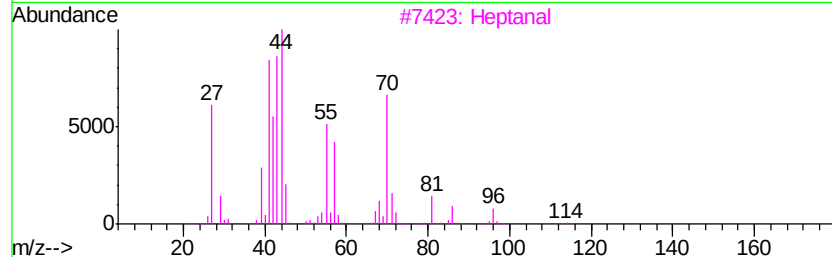
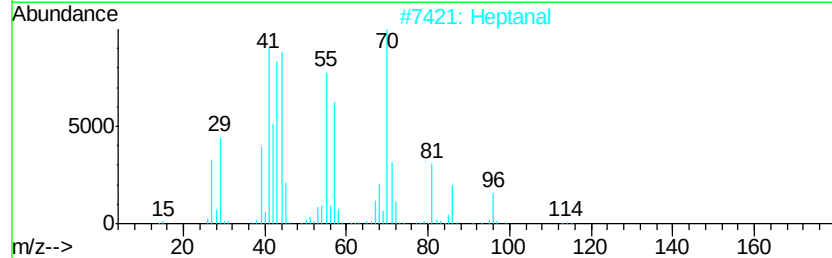
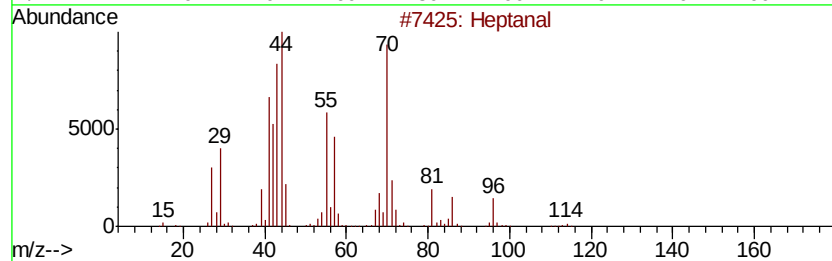
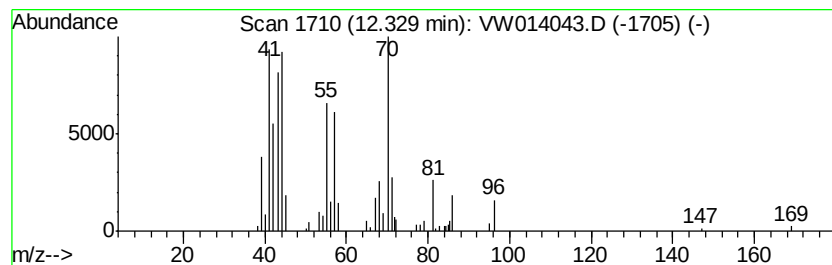
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Heptanal Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.33 | 2.08 ug/L | 63700 | Chlorobenzene-d5 | 11.63 |

| Hit# of | 5        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------|--------------|-----|---------|-------------|------|
| 1       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 90   |
| 2       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 86   |
| 3       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 86   |
| 4       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 78   |
| 5       | Heptanal |              | 114 | C7H14O  | 000111-71-7 | 78   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\  
Data File : VW014043.D  
Acq On : 15 Nov 2019 16:13  
Operator : SY/VA  
Sample : K5855-01  
Misc : 9.40G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAQF3

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

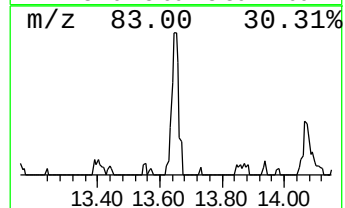
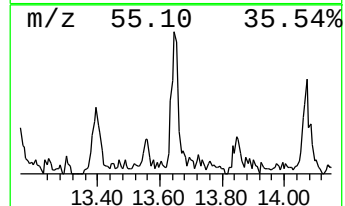
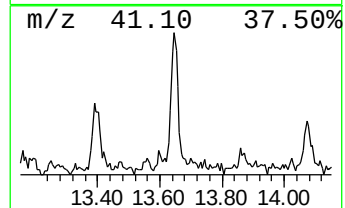
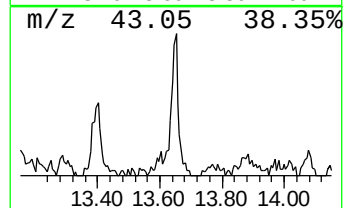
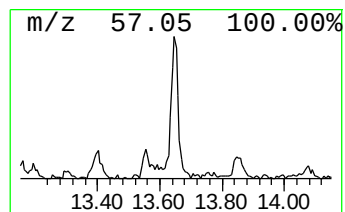
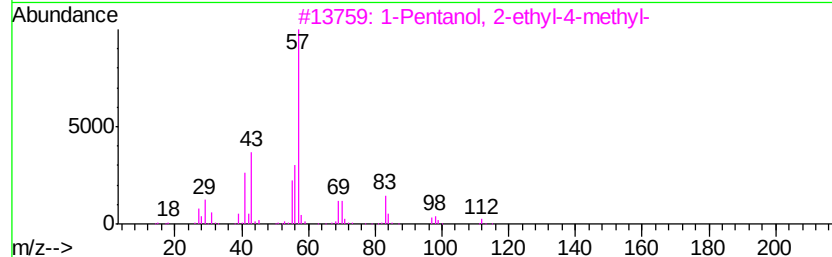
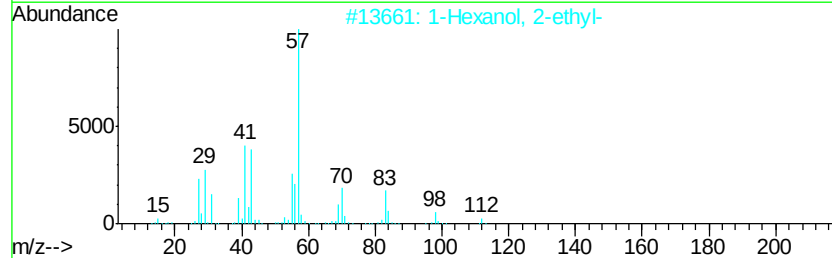
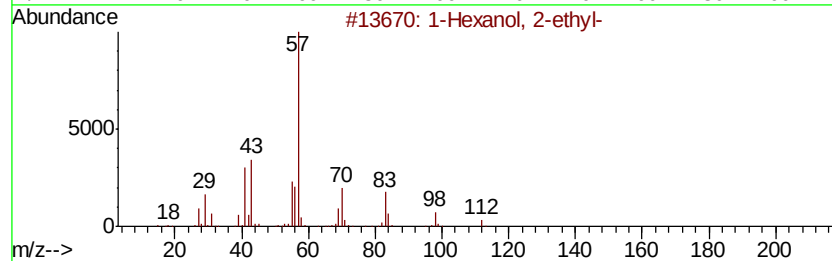
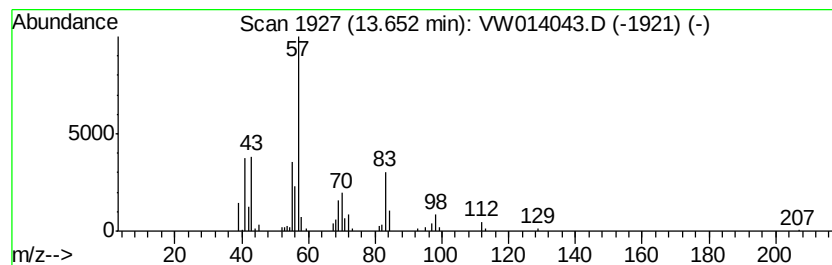
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 1-Hexanol, 2-ethyl- Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.65 | 1.92 ug/L | 39848 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 1-Hexanol, 2-ethyl-                 | 130 | C8H18O     | 000104-76-7  | 64   |
| 2    |    | 1-Hexanol, 2-ethyl-                 | 130 | C8H18O     | 000104-76-7  | 59   |
| 3    |    | 1-Pentanol, 2-ethyl-4-methyl-       | 130 | C8H18O     | 000106-67-2  | 50   |
| 4    |    | Heptyl isobutyl carbonate           | 216 | C12H24O3   | 959068-08-7  | 50   |
| 5    |    | 2-Ethyl-1-hexanol, heptafluorobu... | 326 | C12H17F7O2 | 1000365-16-0 | 47   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111519\  
Data File : VW014043.D  
Acq On : 15 Nov 2019 16:13  
Operator : SY/VA  
Sample : K5855-01  
Misc : 9.40G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAQF3

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

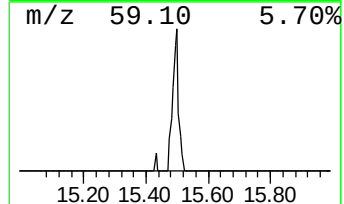
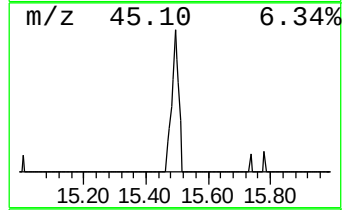
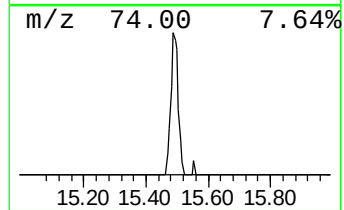
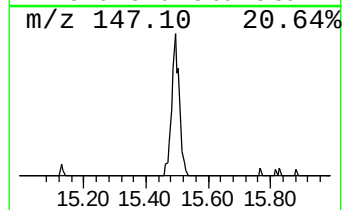
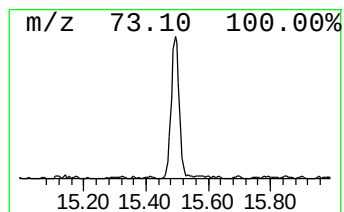
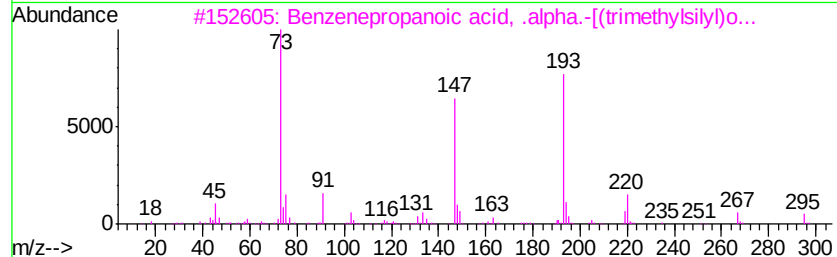
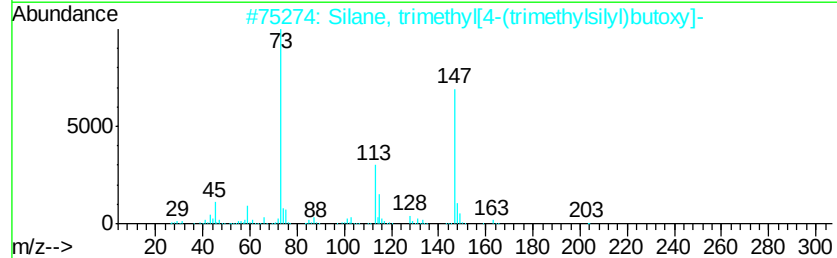
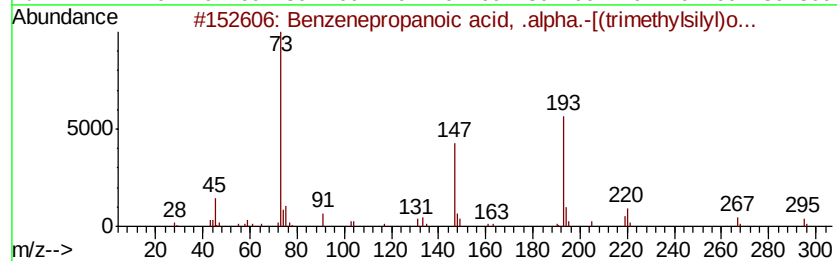
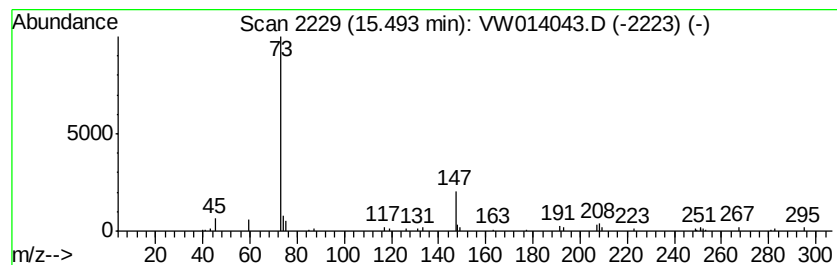
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzenepropanoic acid, .alp... Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.49 | 1.25 ug/L | 25952 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm     | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|-------------|-------------|------|
| 1    |    |   | Benzenepropanoic acid, .alpha.-[...  | 310 | C15H26O3Si2 | 027750-45-4 | 53   |
| 2    |    |   | Silane, trimethyl[4-(trimethylsi...  | 218 | C10H26OSi2  | 007140-91-2 | 42   |
| 3    |    |   | Benzenepropanoic acid, .alpha.-[...  | 310 | C15H26O3Si2 | 027750-45-4 | 40   |
| 4    |    |   | 3-Oxa-6-thia-2,7-disilaooctane, 2... | 222 | C8H22OSSi2  | 078921-31-0 | 36   |
| 5    |    |   | 3,8-Dioxa-2,9-disiladec-5-ene, 2...  | 232 | C10H24O2Si2 | 053326-59-3 | 36   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW111519\  
Data File : VW014043.D  
Acq On : 15 Nov 2019 16:13  
Operator : SY/VA  
Sample : K5855-01  
Misc : 9.40G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAQF3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.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 |
| Dimethyl ether       | 2.15  | 1.8     | ug/L  | 51952    | 1                     | 8.84  | 719513 | 25.0 |
| Butanal              | 6.89  | 4.2     | ug/L  | 121567   | 1                     | 8.84  | 719513 | 25.0 |
| Butanal, 3-methyl-   | 9.41  | 2.7     | ug/L  | 78650    | 1                     | 8.84  | 719513 | 25.0 |
| Hexanal              | 11.07 | 16.9    | ug/L  | 518778   | 2                     | 11.63 | 766495 | 25.0 |
| Heptanal             | 12.33 | 2.1     | ug/L  | 63700    | 2                     | 11.63 | 766495 | 25.0 |
| 1-Hexanol, 2-ethyl-  | 13.65 | 1.9     | ug/L  | 39848    | 3                     | 13.56 | 518240 | 25.0 |
| Benzenepropanoic ... | 15.49 | 1.3     | ug/L  | 25952    | 3                     | 13.56 | 518240 | 25.0 |