

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122521\  
 Data File : VW021643.D  
 Acq On : 25 Dec 2021 14:08  
 Operator : SY/VA  
 Sample : M5174-07  
 Misc : 6.35g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GBC18

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
 Title : SFAM01.0

Signal : TIC: VW021643.D\data.ms

| 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         | 2.178       | 41            | 45          | 52           | rVB      | 11042          | 14767         | 4.05%           | 0.538%        |
| 2         | 2.349       | 68            | 73          | 83           | rVB2     | 32371          | 57312         | 15.73%          | 2.089%        |
| 3         | 2.495       | 92            | 97          | 105          | rBV      | 14424          | 26128         | 7.17%           | 0.952%        |
| 4         | 2.885       | 154           | 161         | 170          | rVB      | 14765          | 29695         | 8.15%           | 1.082%        |
| 5         | 3.025       | 177           | 184         | 191          | rBV2     | 7478           | 15792         | 4.33%           | 0.576%        |
| 6         | 3.385       | 237           | 243         | 253          | rVB2     | 3048           | 7102          | 1.95%           | 0.259%        |
| 7         | 3.580       | 273           | 275         | 280          | rVB      | 264            | 328           | 0.09%           | 0.012%        |
| 8         | 3.720       | 294           | 298         | 301          | rBV      | 346            | 486           | 0.13%           | 0.018%        |
| 9         | 3.848       | 314           | 319         | 323          | rBV2     | 465            | 793           | 0.22%           | 0.029%        |
| 10        | 4.019       | 336           | 347         | 358          | rBV      | 30041          | 86746         | 23.80%          | 3.162%        |
| 11        | 4.129       | 358           | 365         | 375          | rBV      | 16475          | 44610         | 12.24%          | 1.626%        |
| 12        | 4.379       | 398           | 406         | 416          | rVV3     | 1078           | 3321          | 0.91%           | 0.121%        |
| 13        | 4.696       | 456           | 458         | 462          | rVB      | 168            | 217           | 0.06%           | 0.008%        |
| 14        | 4.909       | 486           | 493         | 496          | rBV2     | 2127           | 4839          | 1.33%           | 0.176%        |
| 15        | 5.427       | 571           | 578         | 590          | rVV3     | 2246           | 6390          | 1.75%           | 0.233%        |
| 16        | 5.781       | 629           | 636         | 647          | rBB4     | 2487           | 8069          | 2.21%           | 0.294%        |
| 17        | 5.879       | 648           | 652         | 654          | rBB      | 112            | 141           | 0.04%           | 0.005%        |
| 18        | 5.940       | 655           | 662         | 670          | rBB2     | 1788           | 4514          | 1.24%           | 0.165%        |
| 19        | 6.610       | 769           | 772         | 774          | rBB      | 122            | 136           | 0.04%           | 0.005%        |
| 20        | 6.988       | 825           | 834         | 841          | rBV3     | 1531           | 4558          | 1.25%           | 0.166%        |
| 21        | 7.080       | 841           | 849         | 858          | rBV2     | 12838          | 35450         | 9.73%           | 1.292%        |
| 22        | 7.647       | 932           | 942         | 954          | rBB      | 54977          | 137046        | 37.61%          | 4.995%        |
| 23        | 7.933       | 982           | 989         | 994          | rBV2     | 633            | 1698          | 0.47%           | 0.062%        |
| 24        | 8.153       | 1021          | 1025        | 1031         | rBB3     | 616            | 939           | 0.26%           | 0.034%        |
| 25        | 8.275       | 1035          | 1045        | 1062         | rBV3     | 99914          | 364408        | 100.00%         | 13.282%       |
| 26        | 8.695       | 1108          | 1114        | 1122         | rBB      | 1150           | 2370          | 0.65%           | 0.086%        |
| 27        | 8.841       | 1130          | 1138        | 1148         | rBV      | 116735         | 229650        | 63.02%          | 8.370%        |
| 28        | 9.079       | 1174          | 1177        | 1179         | rBB      | 176            | 194           | 0.05%           | 0.007%        |
| 29        | 9.274       | 1201          | 1209        | 1217         | rBV      | 74888          | 149078        | 40.91%          | 5.434%        |
| 30        | 9.402       | 1228          | 1230        | 1232         | rBV      | 168            | 207           | 0.06%           | 0.008%        |
| 31        | 9.518       | 1245          | 1249        | 1252         | rBV      | 523            | 677           | 0.19%           | 0.025%        |
| 32        | 9.610       | 1261          | 1264        | 1268         | rVB      | 198            | 274           | 0.08%           | 0.010%        |
| 33        | 9.671       | 1268          | 1274        | 1278         | rBB2     | 274            | 494           | 0.14%           | 0.018%        |
| 34        | 9.835       | 1299          | 1301        | 1302         | rBV2     | 167            | 135           | 0.04%           | 0.005%        |
| 35        | 9.957       | 1318          | 1321        | 1325         | rBB      | 274            | 280           | 0.08%           | 0.010%        |
| 36        | 10.036      | 1326          | 1334        | 1342         | rBV      | 38899          | 69398         | 19.04%          | 2.529%        |

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 Sample : M5174-07  
 Misc : 6.35g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GBC18

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 37 | 10.097 | 1342 | 1344 | 1346 | rVV  | 221    | 254    | 0.07%  | 0.009%  |
| 38 | 10.122 | 1346 | 1348 | 1351 | rVB  | 238    | 237    | 0.07%  | 0.009%  |
| 39 | 10.213 | 1360 | 1363 | 1368 | rBB  | 69     | 157    | 0.04%  | 0.006%  |
| 40 | 10.323 | 1373 | 1381 | 1387 | rBV  | 143056 | 251138 | 68.92% | 9.154%  |
| 41 | 10.390 | 1387 | 1392 | 1404 | rVV  | 43562  | 78153  | 21.45% | 2.849%  |
| 42 | 10.506 | 1404 | 1411 | 1416 | rVB4 | 1388   | 2479   | 0.68%  | 0.090%  |
| 43 | 10.579 | 1416 | 1423 | 1431 | rBB  | 26051  | 44095  | 12.10% | 1.607%  |
| 44 | 10.646 | 1431 | 1434 | 1438 | rBV  | 199    | 325    | 0.09%  | 0.012%  |
| 45 | 10.701 | 1439 | 1443 | 1448 | rVV2 | 665    | 1075   | 0.29%  | 0.039%  |
| 46 | 10.750 | 1450 | 1451 | 1454 | rVB  | 305    | 188    | 0.05%  | 0.007%  |
| 47 | 10.866 | 1466 | 1470 | 1473 | rBB2 | 833    | 1157   | 0.32%  | 0.042%  |
| 48 | 10.926 | 1473 | 1480 | 1492 | rBV  | 52862  | 90128  | 24.73% | 3.285%  |
| 49 | 11.012 | 1492 | 1494 | 1497 | rVB  | 157    | 136    | 0.04%  | 0.005%  |
| 50 | 11.067 | 1500 | 1503 | 1507 | rBV4 | 376    | 547    | 0.15%  | 0.020%  |
| 51 | 11.183 | 1519 | 1522 | 1523 | rBV  | 268    | 297    | 0.08%  | 0.011%  |
| 52 | 11.231 | 1527 | 1530 | 1534 | rBV2 | 291    | 414    | 0.11%  | 0.015%  |
| 53 | 11.628 | 1588 | 1595 | 1605 | rVV  | 167268 | 279587 | 76.72% | 10.191% |
| 54 | 11.731 | 1605 | 1612 | 1619 | rVV  | 12011  | 19346  | 5.31%  | 0.705%  |
| 55 | 11.835 | 1623 | 1629 | 1636 | rVB  | 15052  | 26600  | 7.30%  | 0.970%  |
| 56 | 12.164 | 1677 | 1683 | 1690 | rVB2 | 6732   | 11150  | 3.06%  | 0.406%  |
| 57 | 12.243 | 1694 | 1696 | 1699 | rBV  | 190    | 166    | 0.05%  | 0.006%  |
| 58 | 12.341 | 1709 | 1712 | 1714 | rBV  | 409    | 388    | 0.11%  | 0.014%  |
| 59 | 12.463 | 1727 | 1732 | 1738 | rVB2 | 869    | 1234   | 0.34%  | 0.045%  |
| 60 | 12.603 | 1750 | 1755 | 1761 | rVB2 | 2619   | 3845   | 1.06%  | 0.140%  |
| 61 | 12.688 | 1763 | 1769 | 1777 | rBV  | 77985  | 128624 | 35.30% | 4.688%  |
| 62 | 12.804 | 1782 | 1788 | 1793 | rBV  | 1104   | 1680   | 0.46%  | 0.061%  |
| 63 | 12.865 | 1793 | 1798 | 1802 | rBV  | 4186   | 6546   | 1.80%  | 0.239%  |
| 64 | 12.999 | 1817 | 1820 | 1822 | rBV  | 86     | 143    | 0.04%  | 0.005%  |
| 65 | 13.048 | 1827 | 1828 | 1831 | rVV  | 179    | 162    | 0.04%  | 0.006%  |
| 66 | 13.103 | 1831 | 1837 | 1842 | rVV2 | 1850   | 2750   | 0.75%  | 0.100%  |
| 67 | 13.182 | 1846 | 1850 | 1855 | rVV2 | 155    | 244    | 0.07%  | 0.009%  |
| 68 | 13.249 | 1855 | 1861 | 1872 | rVB3 | 5043   | 11317  | 3.11%  | 0.412%  |
| 69 | 13.402 | 1880 | 1886 | 1889 | rVV4 | 662    | 1210   | 0.33%  | 0.044%  |
| 70 | 13.444 | 1889 | 1893 | 1895 | rVV  | 217    | 338    | 0.09%  | 0.012%  |
| 71 | 13.469 | 1895 | 1897 | 1899 | rVB  | 267    | 233    | 0.06%  | 0.008%  |
| 72 | 13.493 | 1899 | 1901 | 1904 | rBV  | 213    | 303    | 0.08%  | 0.011%  |
| 73 | 13.554 | 1904 | 1911 | 1922 | rBV  | 147802 | 243099 | 66.71% | 8.861%  |
| 74 | 13.646 | 1922 | 1926 | 1931 | rVB2 | 1029   | 1696   | 0.47%  | 0.062%  |
| 75 | 13.749 | 1939 | 1943 | 1953 | rVB4 | 3015   | 5456   | 1.50%  | 0.199%  |
| 76 | 13.853 | 1953 | 1960 | 1972 | rVB  | 114855 | 186980 | 51.31% | 6.815%  |

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Instrument :  
 MSVOA\_W  
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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

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Min Area: 0 % of largest Peak

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Max Peaks: 100

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Peak Location: TOP

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Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |      |      |       |        |
|-----|--------|------|------|------|------|------|------|-------|--------|
| 77  | 13.944 | 1972 | 1975 | 1979 | rBV2 | 216  | 358  | 0.10% | 0.013% |
| 78  | 14.011 | 1981 | 1986 | 1987 | rBV2 | 485  | 541  | 0.15% | 0.020% |
| 79  | 14.066 | 1991 | 1995 | 1999 | rBV2 | 1534 | 2003 | 0.55% | 0.073% |
| 80  | 14.158 | 2006 | 2010 | 2013 | rVB2 | 468  | 705  | 0.19% | 0.026% |
| 81  | 14.206 | 2013 | 2018 | 2023 | rVB2 | 2197 | 3208 | 0.88% | 0.117% |
| 82  | 14.328 | 2028 | 2038 | 2042 | rBV4 | 1001 | 2120 | 0.58% | 0.077% |
| 83  | 14.420 | 2049 | 2053 | 2054 | rVB2 | 184  | 219  | 0.06% | 0.008% |
| 84  | 14.450 | 2054 | 2058 | 2061 | rBV3 | 275  | 417  | 0.11% | 0.015% |
| 85  | 14.517 | 2063 | 2069 | 2075 | rBV4 | 642  | 1281 | 0.35% | 0.047% |
| 86  | 14.688 | 2093 | 2097 | 2100 | rBV2 | 775  | 1110 | 0.30% | 0.040% |
| 87  | 14.810 | 2109 | 2117 | 2121 | rBV3 | 1231 | 2169 | 0.60% | 0.079% |
| 88  | 15.103 | 2160 | 2165 | 2168 | rBV3 | 253  | 485  | 0.13% | 0.018% |
| 89  | 15.176 | 2168 | 2177 | 2181 | rVV3 | 500  | 1173 | 0.32% | 0.043% |
| 90  | 15.231 | 2184 | 2186 | 2189 | rVB2 | 155  | 158  | 0.04% | 0.006% |
| 91  | 15.359 | 2202 | 2207 | 2218 | rVB  | 4998 | 8542 | 2.34% | 0.311% |
| 92  | 15.481 | 2222 | 2227 | 2232 | rBV2 | 915  | 1758 | 0.48% | 0.064% |
| 93  | 15.645 | 2252 | 2254 | 2256 | rBV  | 172  | 177  | 0.05% | 0.006% |
| 94  | 15.798 | 2274 | 2279 | 2281 | rBV5 | 612  | 956  | 0.26% | 0.035% |
| 95  | 15.822 | 2281 | 2283 | 2285 | rVB  | 182  | 158  | 0.04% | 0.006% |
| 96  | 15.956 | 2301 | 2305 | 2308 | rBV3 | 391  | 617  | 0.17% | 0.022% |
| 97  | 16.096 | 2325 | 2328 | 2329 | rBV2 | 140  | 164  | 0.05% | 0.006% |
| 98  | 16.188 | 2341 | 2343 | 2344 | rBV  | 255  | 148  | 0.04% | 0.005% |
| 99  | 16.432 | 2379 | 2383 | 2388 | rBV  | 1069 | 1662 | 0.46% | 0.061% |
| 100 | 16.639 | 2413 | 2417 | 2423 | rVB3 | 608  | 1329 | 0.36% | 0.048% |

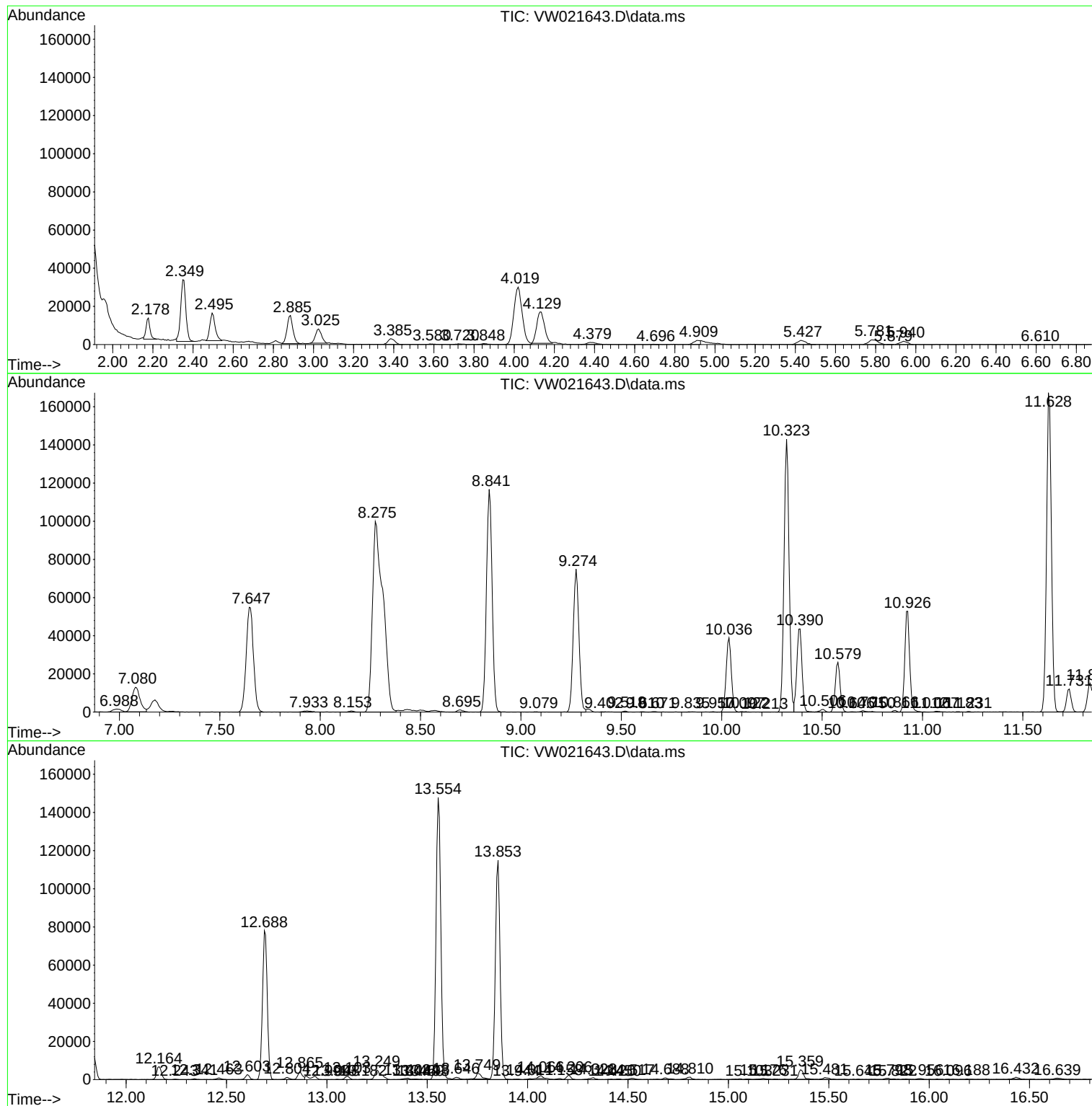
Sum of corrected areas: 2743577

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Sample : M5174-07  
Misc : 6.35g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GBC18

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122521\  
Data File : VW021643.D  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

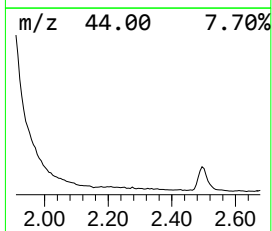
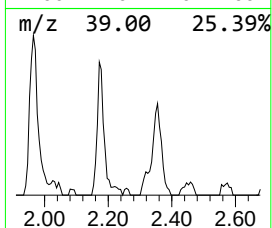
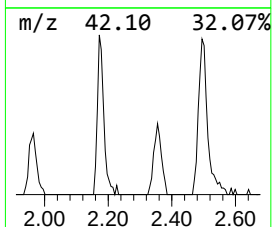
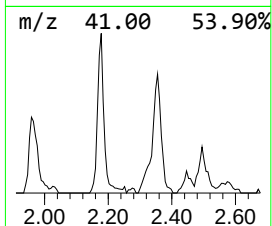
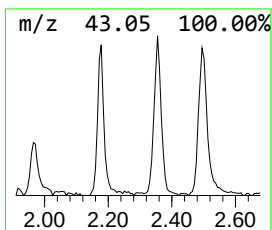
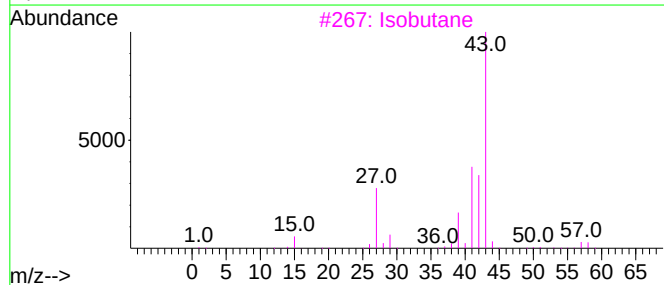
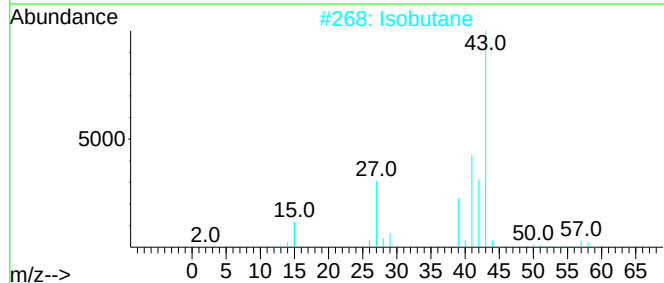
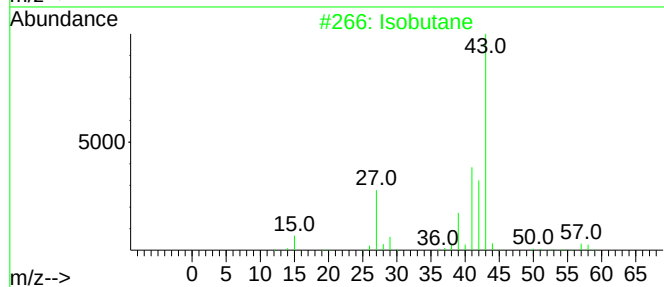
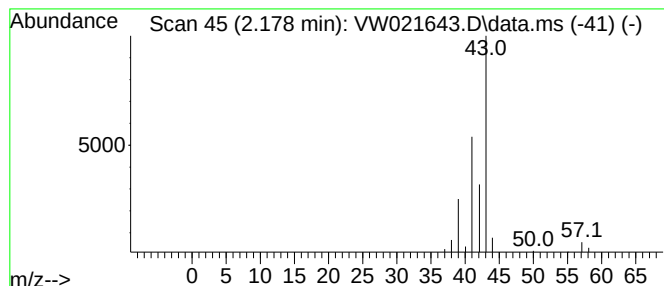
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 2.178 | 1.61 ug/L | 14767 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----|---|--------------|----|---------|-------------|------|
| 1    |    |   | Isobutane    | 58 | C4H10   | 000075-28-5 | 72   |
| 2    |    |   | Isobutane    | 58 | C4H10   | 000075-28-5 | 56   |
| 3    |    |   | Isobutane    | 58 | C4H10   | 000075-28-5 | 9    |
| 4    |    |   | Isobutane    | 58 | C4H10   | 000075-28-5 | 9    |
| 5    |    |   | Butane       | 58 | C4H10   | 000106-97-8 | 9    |



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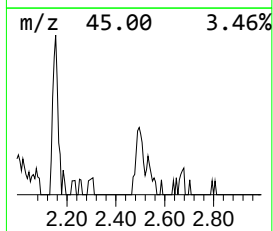
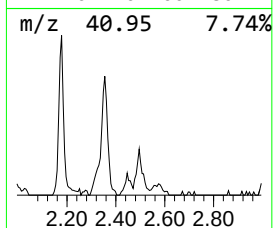
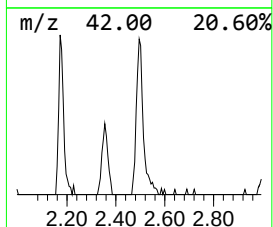
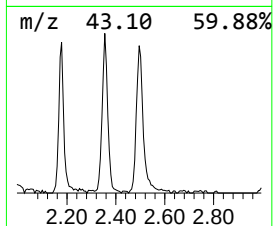
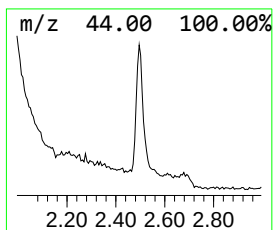
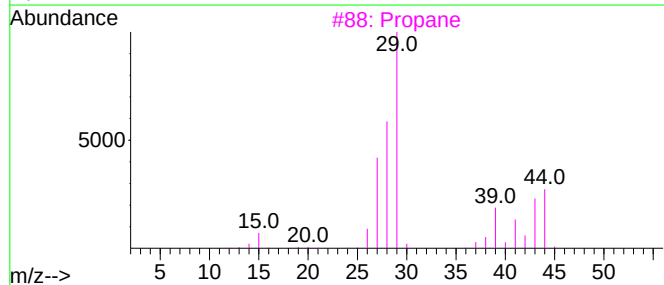
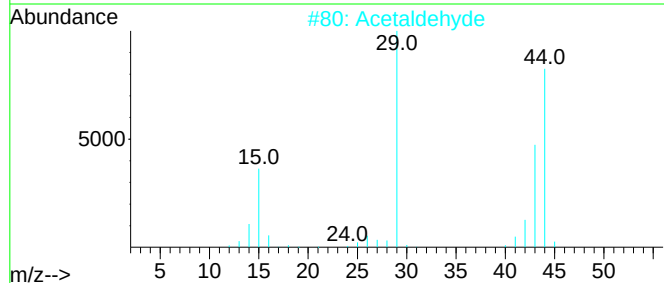
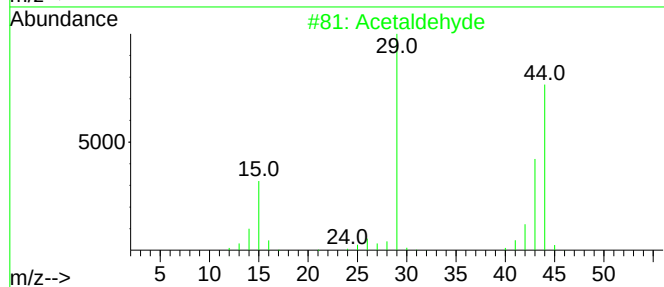
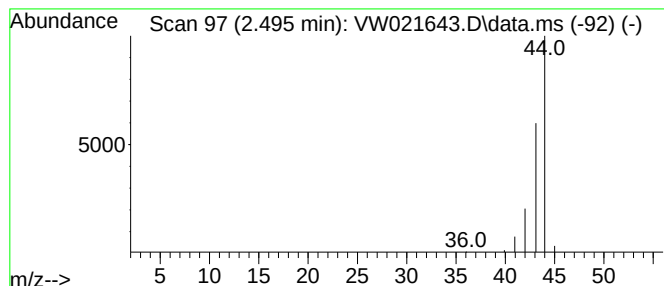
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Acetaldehyde Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 2.495 | 2.84 ug/L | 26128 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of | 5 | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------|----|---------|-------------|------|
| 1    |    |   | Acetaldehyde   | 44 | C2H4O   | 000075-07-0 | 74   |
| 2    |    |   | Acetaldehyde   | 44 | C2H4O   | 000075-07-0 | 64   |
| 3    |    |   | Propane        | 44 | C3H8    | 000074-98-6 | 5    |
| 4    |    |   | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 5    |    |   | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |



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Sample : M5174-07  
Misc : 6.35g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GBC18

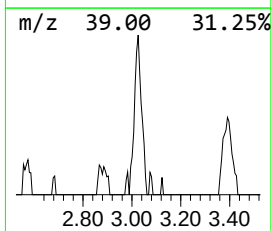
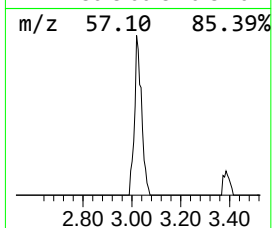
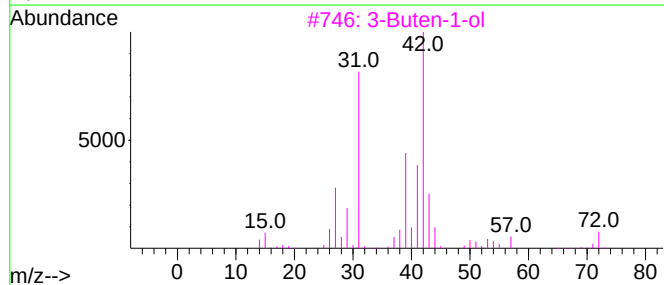
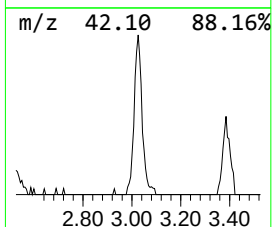
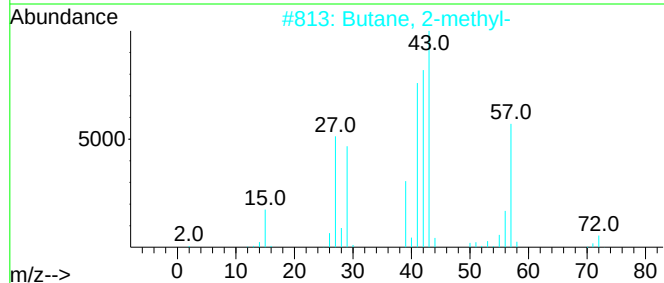
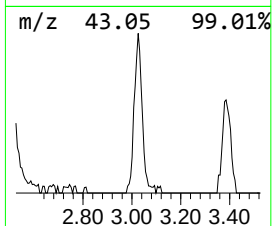
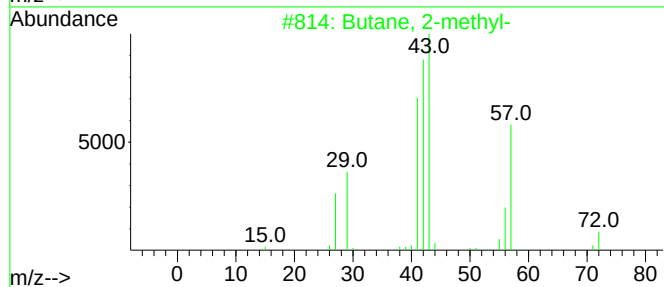
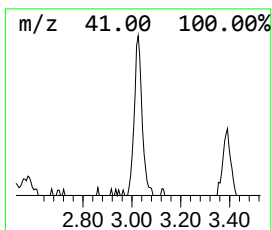
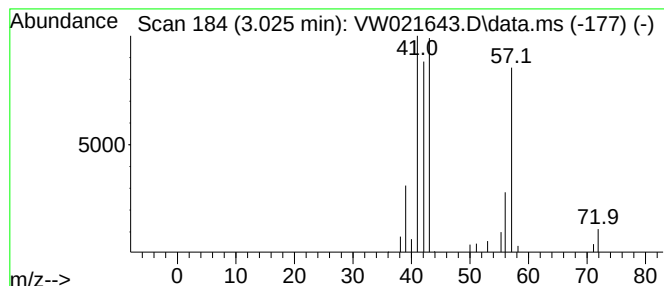
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Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 3.025 | 1.72 ug/L | 15792 | 1,4-Difluorobenzene | 8.841 |

| Hit# | of 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|------|----------------------|----|---------|-------------|------|
| 1    |      | Butane, 2-methyl-    | 72 | C5H12   | 000078-78-4 | 86   |
| 2    |      | Butane, 2-methyl-    | 72 | C5H12   | 000078-78-4 | 64   |
| 3    |      | 3-Buten-1-ol         | 72 | C4H8O   | 000627-27-0 | 25   |
| 4    |      | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 10   |
| 5    |      | 3-Buten-1-ol         | 72 | C4H8O   | 000627-27-0 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122521\  
Data File : VW021643.D  
Acq On : 25 Dec 2021 14:08  
Operator : SY/VA  
Sample : M5174-07  
Misc : 6.35g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GBC18

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120921SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| (DEL) Alkane: S... | 2.178 | 1.6     | ug/L  | 14767    | 1                     | 8.841 | 229650 | 25.0 |
| Acetaldehyde       | 2.495 | 2.8     | ug/L  | 26128    | 1                     | 8.841 | 229650 | 25.0 |
| (DEL) Alkane: S... | 3.025 | 1.7     | ug/L  | 15792    | 1                     | 8.841 | 229650 | 25.0 |