

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
 Data File : VW026480.D  
 Acq On : 30 Jun 2023 18:18  
 Operator : SY/MD  
 Sample : 03478-01  
 Misc : 6.16g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 YBW57

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\SFAMWLM062923SMA.M  
 Title : SFAM01.0

Signal : TIC: VW026480.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         | 1.954       | 8             | 11          | 16           | rVB      | 11846          | 16339         | 0.57%           | 0.076%        |
| 2         | 2.094       | 32            | 34          | 37           | rVB3     | 1600           | 1346          | 0.05%           | 0.006%        |
| 3         | 2.174       | 37            | 47          | 50           | rBV4     | 5458           | 14190         | 0.50%           | 0.066%        |
| 4         | 2.229       | 50            | 56          | 59           | rBV7     | 5144           | 12724         | 0.45%           | 0.059%        |
| 5         | 2.369       | 69            | 79          | 94           | rBV      | 100721         | 316695        | 11.10%          | 1.480%        |
| 6         | 2.631       | 119           | 122         | 125          | rBV4     | 4939           | 7295          | 0.26%           | 0.034%        |
| 7         | 2.893       | 157           | 165         | 177          | rBV      | 95847          | 277801        | 9.74%           | 1.298%        |
| 8         | 3.387       | 243           | 246         | 248          | rBV2     | 1797           | 1563          | 0.05%           | 0.007%        |
| 9         | 3.515       | 265           | 267         | 270          | rBV4     | 1077           | 1515          | 0.05%           | 0.007%        |
| 10        | 3.552       | 271           | 273         | 276          | rVV3     | 1304           | 1564          | 0.05%           | 0.007%        |
| 11        | 3.673       | 289           | 293         | 294          | rBV4     | 1150           | 1665          | 0.06%           | 0.008%        |
| 12        | 4.021       | 337           | 350         | 364          | rBV2     | 231397         | 827443        | 29.01%          | 3.866%        |
| 13        | 4.393       | 401           | 411         | 421          | rBV3     | 7389           | 20943         | 0.73%           | 0.098%        |
| 14        | 4.917       | 485           | 497         | 520          | rBV3     | 22907          | 100417        | 3.52%           | 0.469%        |
| 15        | 5.307       | 558           | 561         | 565          | rBV5     | 1076           | 1245          | 0.04%           | 0.006%        |
| 16        | 5.429       | 578           | 581         | 585          | rVB5     | 932            | 1221          | 0.04%           | 0.006%        |
| 17        | 5.758       | 631           | 635         | 638          | rBV5     | 1367           | 2607          | 0.09%           | 0.012%        |
| 18        | 5.935       | 652           | 664         | 676          | rBV4     | 7470           | 25565         | 0.90%           | 0.119%        |
| 19        | 6.185       | 702           | 705         | 706          | rBV3     | 1492           | 1223          | 0.04%           | 0.006%        |
| 20        | 6.557       | 762           | 766         | 768          | rBV4     | 740            | 1203          | 0.04%           | 0.006%        |
| 21        | 6.807       | 803           | 807         | 808          | rBV4     | 879            | 1246          | 0.04%           | 0.006%        |
| 22        | 6.868       | 811           | 817         | 819          | rBV4     | 797            | 1262          | 0.04%           | 0.006%        |
| 23        | 7.075       | 842           | 851         | 857          | rBV      | 117335         | 332613        | 11.66%          | 1.554%        |
| 24        | 7.130       | 857           | 860         | 877          | rVV2     | 70326          | 203086        | 7.12%           | 0.949%        |
| 25        | 7.240       | 877           | 878         | 880          | rVV2     | 2043           | 1230          | 0.04%           | 0.006%        |
| 26        | 7.283       | 883           | 885         | 889          | rVV3     | 1334           | 1410          | 0.05%           | 0.007%        |
| 27        | 7.441       | 907           | 911         | 916          | rBV5     | 904            | 1384          | 0.05%           | 0.006%        |
| 28        | 7.539       | 923           | 927         | 934          | rVB7     | 1829           | 3283          | 0.12%           | 0.015%        |
| 29        | 7.648       | 934           | 945         | 960          | rBV2     | 394407         | 1105587       | 38.76%          | 5.166%        |
| 30        | 7.880       | 979           | 983         | 987          | rVV7     | 1308           | 2510          | 0.09%           | 0.012%        |
| 31        | 7.959       | 992           | 996         | 998          | rVB5     | 1261           | 1896          | 0.07%           | 0.009%        |
| 32        | 8.099       | 1015          | 1019        | 1023         | rVB6     | 1034           | 1684          | 0.06%           | 0.008%        |
| 33        | 8.154       | 1023          | 1028        | 1030         | rBV4     | 1266           | 1700          | 0.06%           | 0.008%        |
| 34        | 8.276       | 1035          | 1048        | 1066         | rBV2     | 950007         | 2852170       | 100.00%         | 13.327%       |
| 35        | 8.404       | 1068          | 1069        | 1073         | rVB4     | 1882           | 1534          | 0.05%           | 0.007%        |
| 36        | 8.618       | 1101          | 1104        | 1105         | rBV3     | 1924           | 1816          | 0.06%           | 0.008%        |

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Integrator: RTE

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Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |       |         |         |        |         |
|----|--------|------|------|------|-------|---------|---------|--------|---------|
| 37 | 8.630  | 1105 | 1106 | 1111 | rVB5  | 1518    | 2188    | 0.08%  | 0.010%  |
| 38 | 8.697  | 1111 | 1117 | 1124 | rBV9  | 2863    | 7951    | 0.28%  | 0.037%  |
| 39 | 8.746  | 1124 | 1125 | 1129 | rVB3  | 1498    | 1460    | 0.05%  | 0.007%  |
| 40 | 8.843  | 1129 | 1141 | 1155 | rBV   | 1180757 | 2367806 | 83.02% | 11.064% |
| 41 | 9.075  | 1170 | 1179 | 1191 | rBV   | 200760  | 422540  | 14.81% | 1.974%  |
| 42 | 9.270  | 1200 | 1211 | 1222 | rBV   | 649841  | 1359733 | 47.67% | 6.354%  |
| 43 | 9.550  | 1255 | 1257 | 1262 | rVB5  | 996     | 1260    | 0.04%  | 0.006%  |
| 44 | 9.666  | 1270 | 1276 | 1286 | rBV5  | 3169    | 8044    | 0.28%  | 0.038%  |
| 45 | 9.825  | 1300 | 1302 | 1306 | rVB4  | 1357    | 1533    | 0.05%  | 0.007%  |
| 46 | 10.032 | 1325 | 1336 | 1349 | rBV   | 343077  | 631522  | 22.14% | 2.951%  |
| 47 | 10.130 | 1349 | 1352 | 1360 | rVB9  | 2855    | 6205    | 0.22%  | 0.029%  |
| 48 | 10.215 | 1361 | 1366 | 1369 | rBV5  | 2865    | 4397    | 0.15%  | 0.021%  |
| 49 | 10.325 | 1376 | 1384 | 1392 | rBV   | 1234326 | 2228674 | 78.14% | 10.414% |
| 50 | 10.471 | 1405 | 1408 | 1410 | rBV4  | 1141    | 1234    | 0.04%  | 0.006%  |
| 51 | 10.575 | 1418 | 1425 | 1439 | rBV   | 221376  | 389332  | 13.65% | 1.819%  |
| 52 | 10.703 | 1439 | 1446 | 1452 | rVB2  | 16709   | 30988   | 1.09%  | 0.145%  |
| 53 | 10.861 | 1464 | 1472 | 1476 | rBV2  | 5254    | 12102   | 0.42%  | 0.057%  |
| 54 | 10.922 | 1476 | 1482 | 1499 | rVV   | 377800  | 676030  | 23.70% | 3.159%  |
| 55 | 11.038 | 1499 | 1501 | 1502 | rVV2  | 2192    | 2089    | 0.07%  | 0.010%  |
| 56 | 11.062 | 1502 | 1505 | 1514 | rVB10 | 3662    | 8820    | 0.31%  | 0.041%  |
| 57 | 11.172 | 1519 | 1523 | 1528 | rBV7  | 2611    | 5230    | 0.18%  | 0.024%  |
| 58 | 11.428 | 1557 | 1565 | 1572 | rVB4  | 9270    | 20770   | 0.73%  | 0.097%  |
| 59 | 11.556 | 1582 | 1586 | 1589 | rBV4  | 1240    | 1970    | 0.07%  | 0.009%  |
| 60 | 11.629 | 1590 | 1598 | 1607 | rBV   | 1482698 | 2512751 | 88.10% | 11.741% |
| 61 | 11.776 | 1620 | 1622 | 1626 | rVB5  | 1183    | 1224    | 0.04%  | 0.006%  |
| 62 | 11.824 | 1627 | 1630 | 1632 | rBV4  | 1242    | 1649    | 0.06%  | 0.008%  |
| 63 | 12.032 | 1661 | 1664 | 1667 | rBV5  | 1479    | 2236    | 0.08%  | 0.010%  |
| 64 | 12.123 | 1674 | 1679 | 1680 | rVB5  | 1019    | 1449    | 0.05%  | 0.007%  |
| 65 | 12.166 | 1680 | 1686 | 1687 | rBV6  | 2811    | 4262    | 0.15%  | 0.020%  |
| 66 | 12.330 | 1712 | 1713 | 1716 | rVV3  | 1331    | 1488    | 0.05%  | 0.007%  |
| 67 | 12.391 | 1719 | 1723 | 1726 | rBV5  | 1259    | 2195    | 0.08%  | 0.010%  |
| 68 | 12.440 | 1728 | 1731 | 1732 | rBV3  | 2033    | 2028    | 0.07%  | 0.009%  |
| 69 | 12.465 | 1732 | 1735 | 1742 | rVB7  | 4315    | 8039    | 0.28%  | 0.038%  |
| 70 | 12.544 | 1746 | 1748 | 1751 | rBV4  | 1078    | 1231    | 0.04%  | 0.006%  |
| 71 | 12.599 | 1751 | 1757 | 1764 | rBV   | 20631   | 39060   | 1.37%  | 0.183%  |
| 72 | 12.690 | 1765 | 1772 | 1780 | rVV   | 389640  | 631206  | 22.13% | 2.949%  |
| 73 | 12.763 | 1780 | 1784 | 1790 | rVB8  | 3544    | 8504    | 0.30%  | 0.040%  |
| 74 | 12.891 | 1802 | 1805 | 1806 | rVV3  | 2345    | 2591    | 0.09%  | 0.012%  |
| 75 | 12.903 | 1806 | 1807 | 1808 | rVV   | 2451    | 1692    | 0.06%  | 0.008%  |
| 76 | 12.934 | 1810 | 1812 | 1819 | rVV7  | 3456    | 7445    | 0.26%  | 0.035%  |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 YBW57

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\SFAMWLM062923SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |       |         |         |        |        |
|-----|--------|------|------|------|-------|---------|---------|--------|--------|
| 77  | 13.190 | 1851 | 1854 | 1859 | rVB7  | 2760    | 3843    | 0.13%  | 0.018% |
| 78  | 13.281 | 1861 | 1869 | 1878 | rVB7  | 7881    | 24985   | 0.88%  | 0.117% |
| 79  | 13.403 | 1883 | 1889 | 1894 | rVB7  | 5395    | 8842    | 0.31%  | 0.041% |
| 80  | 13.470 | 1894 | 1900 | 1902 | rBV6  | 6068    | 10971   | 0.38%  | 0.051% |
| 81  | 13.556 | 1907 | 1914 | 1926 | rBV   | 1305025 | 2099784 | 73.62% | 9.812% |
| 82  | 13.757 | 1942 | 1947 | 1948 | rBV5  | 3552    | 4556    | 0.16%  | 0.021% |
| 83  | 13.848 | 1954 | 1962 | 1974 | rBV   | 918006  | 1539236 | 53.97% | 7.192% |
| 84  | 14.062 | 1992 | 1997 | 2002 | rVB2  | 16239   | 26252   | 0.92%  | 0.123% |
| 85  | 14.196 | 2015 | 2019 | 2022 | rBV5  | 2569    | 4416    | 0.15%  | 0.021% |
| 86  | 14.330 | 2031 | 2041 | 2044 | rBV10 | 4677    | 11559   | 0.41%  | 0.054% |
| 87  | 14.409 | 2052 | 2054 | 2057 | rBV4  | 1036    | 1345    | 0.05%  | 0.006% |
| 88  | 14.489 | 2065 | 2067 | 2070 | rBV4  | 1621    | 2521    | 0.09%  | 0.012% |
| 89  | 14.665 | 2094 | 2096 | 2098 | rBV3  | 1582    | 1507    | 0.05%  | 0.007% |
| 90  | 14.720 | 2101 | 2105 | 2110 | rVB7  | 2961    | 5842    | 0.20%  | 0.027% |
| 91  | 14.982 | 2143 | 2148 | 2149 | rBV5  | 2378    | 3674    | 0.13%  | 0.017% |
| 92  | 15.135 | 2169 | 2173 | 2175 | rBV5  | 2600    | 3736    | 0.13%  | 0.017% |
| 93  | 15.263 | 2192 | 2194 | 2196 | rBV3  | 2559    | 2731    | 0.10%  | 0.013% |
| 94  | 15.373 | 2208 | 2212 | 2213 | rVV4  | 2141    | 2614    | 0.09%  | 0.012% |
| 95  | 15.427 | 2216 | 2221 | 2229 | rVV2  | 34920   | 60366   | 2.12%  | 0.282% |
| 96  | 15.543 | 2238 | 2240 | 2242 | rVB3  | 1801    | 1423    | 0.05%  | 0.007% |
| 97  | 15.683 | 2258 | 2263 | 2265 | rBV6  | 2810    | 4520    | 0.16%  | 0.021% |
| 98  | 15.891 | 2294 | 2297 | 2298 | rBV3  | 2706    | 2863    | 0.10%  | 0.013% |
| 99  | 16.165 | 2340 | 2342 | 2345 | rBV4  | 2174    | 1434    | 0.05%  | 0.007% |
| 100 | 16.604 | 2412 | 2414 | 2415 | rBV2  | 2158    | 1949    | 0.07%  | 0.009% |

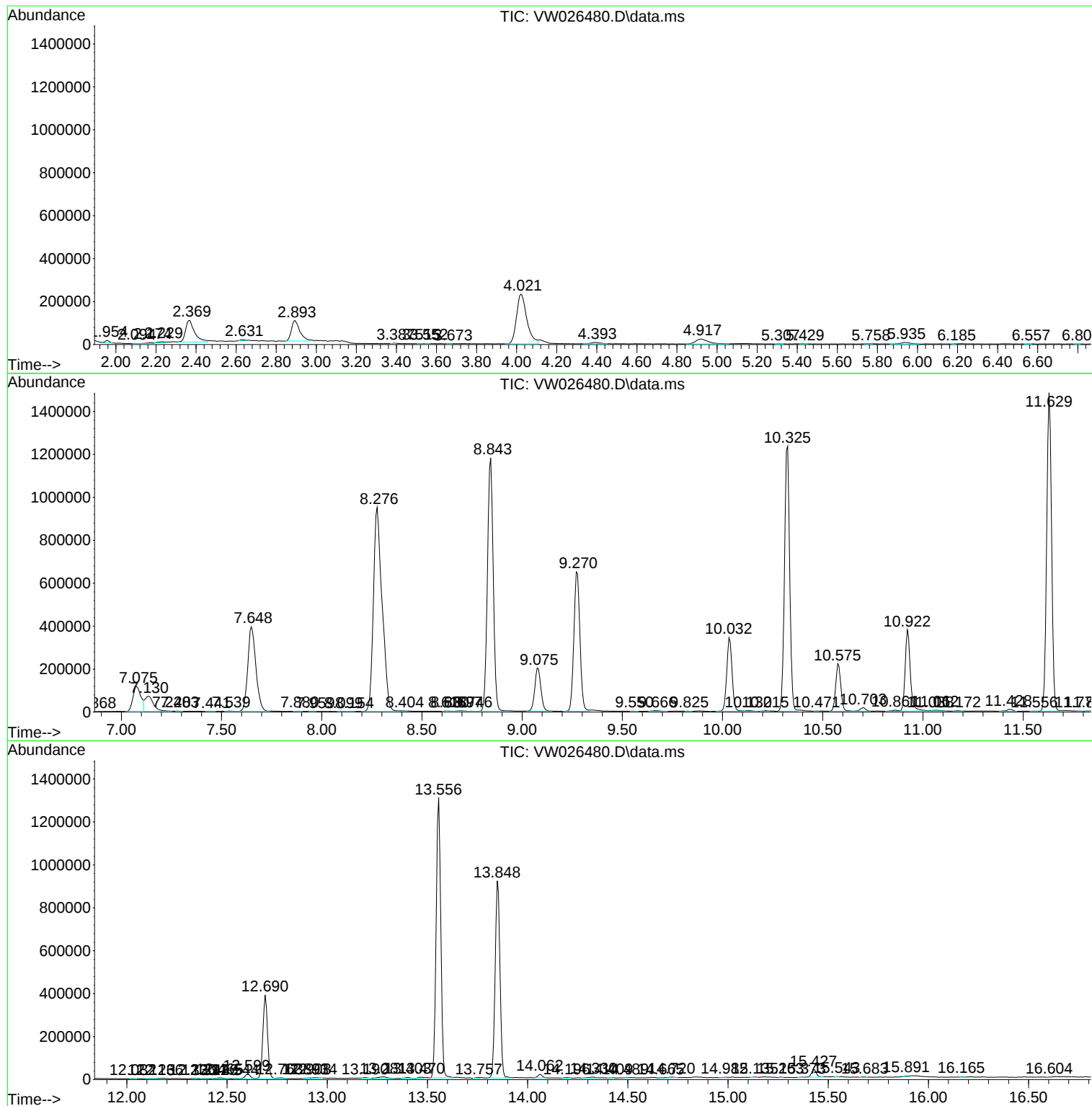
Sum of corrected areas: 21400872

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Instrument :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
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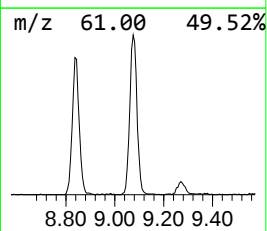
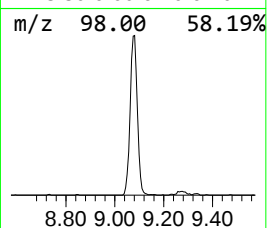
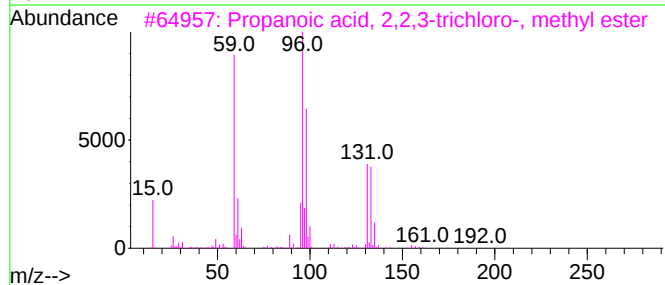
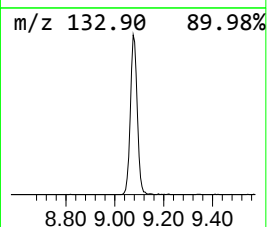
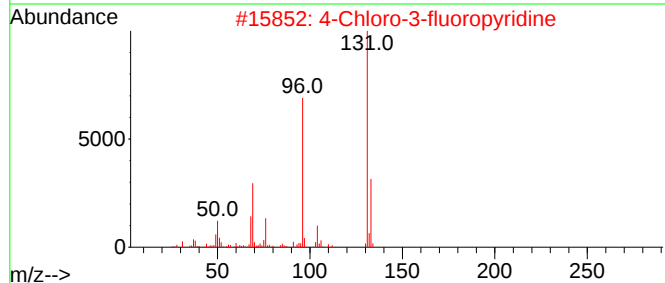
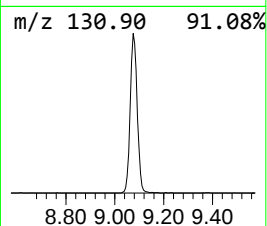
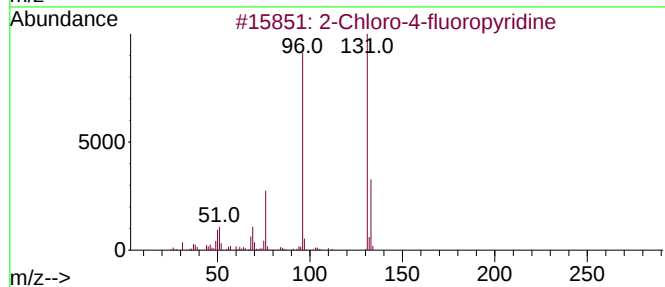
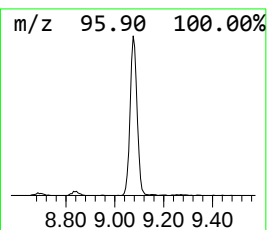
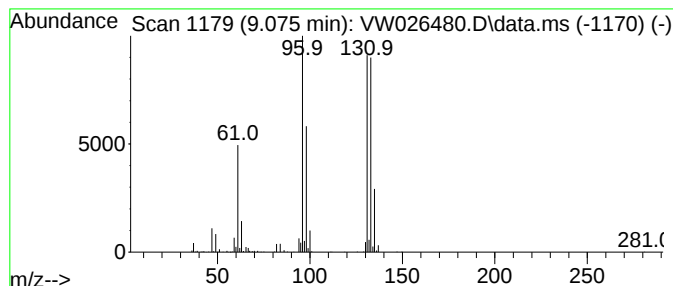
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 2 unknown-01 Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 9.075 | 4.46 ug/L | 422540 | 1,4-Difluorobenzene | 8.843 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 2-Chloro-4-fluoropyridine           | 131 | C5H3ClFN  | 1000484-44-8 | 43   |
| 2    |    |   | 4-Chloro-3-fluoropyridine           | 131 | C5H3ClFN  | 002546-56-7  | 43   |
| 3    |    |   | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3  | 37   |
| 4    |    |   | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2  | 35   |
| 5    |    |   | 2-Chloro-5-methylthiazole           | 133 | C4H4ClNS  | 033342-65-3  | 27   |



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

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                  |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown-01       | 9.075 | 4.5     | ug/L  | 422540   | 1                     | 8.843 | 2367810 | 25.0 |