

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062823\  
 Data File : VW026418.D  
 Acq On : 29 Jun 2023 01:12  
 Operator : SY/MD  
 Sample : 03458-04  
 Misc : 5.14g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46L3

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\SFAMWLM062623SMA.M  
 Title : SFAM01.0

Signal : TIC: VW026418.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         | 2.161       | 41            | 45          | 48           | rBV2     | 4649           | 8391          | 0.20%           | 0.028%        |
| 2         | 2.204       | 48            | 52          | 53           | rBV4     | 5880           | 6048          | 0.15%           | 0.020%        |
| 3         | 2.363       | 72            | 78          | 93           | rBV      | 178254         | 463506        | 11.12%          | 1.552%        |
| 4         | 2.893       | 158           | 165         | 182          | rBV      | 170891         | 479234        | 11.50%          | 1.605%        |
| 5         | 3.259       | 220           | 225         | 226          | rBV5     | 2186           | 3083          | 0.07%           | 0.010%        |
| 6         | 3.381       | 240           | 245         | 246          | rBV5     | 2007           | 3377          | 0.08%           | 0.011%        |
| 7         | 3.545       | 270           | 272         | 274          | rBV3     | 1685           | 1390          | 0.03%           | 0.005%        |
| 8         | 3.649       | 288           | 289         | 291          | rBV2     | 1910           | 1052          | 0.03%           | 0.004%        |
| 9         | 3.686       | 293           | 295         | 298          | rBV4     | 1975           | 2857          | 0.07%           | 0.010%        |
| 10        | 3.801       | 312           | 314         | 316          | rBV3     | 1712           | 1528          | 0.04%           | 0.005%        |
| 11        | 3.850       | 320           | 322         | 325          | rBV4     | 1752           | 1960          | 0.05%           | 0.007%        |
| 12        | 3.923       | 332           | 334         | 336          | rBV3     | 1788           | 1775          | 0.04%           | 0.006%        |
| 13        | 4.021       | 338           | 350         | 374          | rBV      | 316230         | 1084120       | 26.01%          | 3.631%        |
| 14        | 4.265       | 388           | 390         | 391          | rVV2     | 1804           | 1357          | 0.03%           | 0.005%        |
| 15        | 4.350       | 403           | 404         | 407          | rBV3     | 1369           | 1311          | 0.03%           | 0.004%        |
| 16        | 4.387       | 407           | 410         | 411          | rBV3     | 2803           | 2457          | 0.06%           | 0.008%        |
| 17        | 4.490       | 425           | 427         | 430          | rBV4     | 2176           | 2009          | 0.05%           | 0.007%        |
| 18        | 4.624       | 448           | 449         | 452          | rVB3     | 1714           | 1384          | 0.03%           | 0.005%        |
| 19        | 4.673       | 455           | 457         | 460          | rVB4     | 2537           | 2530          | 0.06%           | 0.008%        |
| 20        | 4.704       | 460           | 462         | 465          | rBV4     | 1968           | 2545          | 0.06%           | 0.009%        |
| 21        | 4.777       | 468           | 474         | 475          | rVB5     | 1364           | 2169          | 0.05%           | 0.007%        |
| 22        | 4.801       | 475           | 478         | 479          | rBV3     | 1686           | 1658          | 0.04%           | 0.006%        |
| 23        | 4.917       | 487           | 497         | 507          | rBV2     | 21004          | 74815         | 1.80%           | 0.251%        |
| 24        | 5.076       | 521           | 523         | 526          | rBV4     | 950            | 1096          | 0.03%           | 0.004%        |
| 25        | 5.112       | 526           | 529         | 531          | rBV4     | 1616           | 1873          | 0.04%           | 0.006%        |
| 26        | 5.265       | 551           | 554         | 558          | rVV6     | 1326           | 2497          | 0.06%           | 0.008%        |
| 27        | 5.295       | 558           | 559         | 562          | rVB3     | 1828           | 1381          | 0.03%           | 0.005%        |
| 28        | 5.441       | 580           | 583         | 587          | rBV6     | 1839           | 3133          | 0.08%           | 0.010%        |
| 29        | 5.575       | 603           | 605         | 608          | rVV5     | 1312           | 1389          | 0.03%           | 0.005%        |
| 30        | 5.600       | 608           | 609         | 615          | rVB6     | 3253           | 4796          | 0.12%           | 0.016%        |
| 31        | 5.679       | 617           | 622         | 623          | rBV5     | 1563           | 1964          | 0.05%           | 0.007%        |
| 32        | 5.874       | 651           | 654         | 656          | rBV4     | 1597           | 2120          | 0.05%           | 0.007%        |
| 33        | 5.947       | 659           | 666         | 669          | rVV6     | 5920           | 14226         | 0.34%           | 0.048%        |
| 34        | 6.380       | 734           | 737         | 740          | rBV5     | 1320           | 1759          | 0.04%           | 0.006%        |
| 35        | 6.502       | 755           | 757         | 758          | rBV2     | 1347           | 1078          | 0.03%           | 0.004%        |
| 36        | 6.551       | 761           | 765         | 768          | rBV6     | 1184           | 2447          | 0.06%           | 0.008%        |

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Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062623SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |       |         |         |         |         |
|----|--------|------|------|------|-------|---------|---------|---------|---------|
| 37 | 6.673  | 784  | 785  | 793  | rVB8  | 2868    | 4926    | 0.12%   | 0.016%  |
| 38 | 6.850  | 811  | 814  | 815  | rBV3  | 847     | 1055    | 0.03%   | 0.004%  |
| 39 | 6.972  | 831  | 834  | 838  | rBV6  | 1275    | 1908    | 0.05%   | 0.006%  |
| 40 | 7.081  | 843  | 852  | 860  | rBV   | 108126  | 335176  | 8.04%   | 1.122%  |
| 41 | 7.319  | 889  | 891  | 894  | rVB4  | 1584    | 1532    | 0.04%   | 0.005%  |
| 42 | 7.362  | 894  | 898  | 899  | rBV4  | 1226    | 1336    | 0.03%   | 0.004%  |
| 43 | 7.398  | 903  | 904  | 906  | rVB2  | 1729    | 1142    | 0.03%   | 0.004%  |
| 44 | 7.417  | 906  | 907  | 911  | rBV3  | 1181    | 1488    | 0.04%   | 0.005%  |
| 45 | 7.453  | 911  | 913  | 914  | rBV2  | 1465    | 1086    | 0.03%   | 0.004%  |
| 46 | 7.490  | 917  | 919  | 924  | rBV6  | 2204    | 3615    | 0.09%   | 0.012%  |
| 47 | 7.532  | 924  | 926  | 927  | rVB2  | 1789    | 1283    | 0.03%   | 0.004%  |
| 48 | 7.551  | 927  | 929  | 931  | rBV3  | 1659    | 2130    | 0.05%   | 0.007%  |
| 49 | 7.575  | 931  | 933  | 936  | rBV4  | 854     | 1299    | 0.03%   | 0.004%  |
| 50 | 7.648  | 936  | 945  | 958  | rBV   | 666911  | 1650615 | 39.61%  | 5.528%  |
| 51 | 7.795  | 968  | 969  | 971  | rVB2  | 2372    | 1366    | 0.03%   | 0.005%  |
| 52 | 7.935  | 989  | 992  | 995  | rBV5  | 1881    | 2708    | 0.06%   | 0.009%  |
| 53 | 8.026  | 1006 | 1007 | 1011 | rVB4  | 1521    | 1507    | 0.04%   | 0.005%  |
| 54 | 8.081  | 1011 | 1016 | 1023 | rVB4  | 3995    | 11485   | 0.28%   | 0.038%  |
| 55 | 8.136  | 1023 | 1025 | 1026 | rBV2  | 1115    | 1073    | 0.03%   | 0.004%  |
| 56 | 8.276  | 1036 | 1048 | 1067 | rBV2  | 1435222 | 4167643 | 100.00% | 13.957% |
| 57 | 8.502  | 1081 | 1085 | 1086 | rBV4  | 2377    | 2827    | 0.07%   | 0.009%  |
| 58 | 8.526  | 1086 | 1089 | 1093 | rVB6  | 2956    | 4145    | 0.10%   | 0.014%  |
| 59 | 8.697  | 1110 | 1117 | 1124 | rBV10 | 3368    | 10411   | 0.25%   | 0.035%  |
| 60 | 8.752  | 1124 | 1126 | 1129 | rVB4  | 1767    | 1596    | 0.04%   | 0.005%  |
| 61 | 8.843  | 1129 | 1141 | 1153 | rBV   | 1474552 | 2925867 | 70.20%  | 9.798%  |
| 62 | 9.081  | 1172 | 1180 | 1184 | rBV9  | 5120    | 12805   | 0.31%   | 0.043%  |
| 63 | 9.142  | 1188 | 1190 | 1192 | rBV3  | 1633    | 1649    | 0.04%   | 0.006%  |
| 64 | 9.172  | 1192 | 1195 | 1196 | rVB3  | 1353    | 1293    | 0.03%   | 0.004%  |
| 65 | 9.215  | 1199 | 1202 | 1203 | rBV3  | 1630    | 1391    | 0.03%   | 0.005%  |
| 66 | 9.276  | 1203 | 1212 | 1229 | rBV   | 950804  | 1965112 | 47.15%  | 6.581%  |
| 67 | 9.435  | 1237 | 1238 | 1240 | rBV2  | 1385    | 1066    | 0.03%   | 0.004%  |
| 68 | 9.483  | 1243 | 1246 | 1247 | rVB3  | 1384    | 1121    | 0.03%   | 0.004%  |
| 69 | 9.642  | 1269 | 1272 | 1273 | rBV3  | 1296    | 1119    | 0.03%   | 0.004%  |
| 70 | 9.660  | 1273 | 1275 | 1284 | rVB7  | 3620    | 6603    | 0.16%   | 0.022%  |
| 71 | 9.745  | 1287 | 1289 | 1290 | rBV2  | 1476    | 1502    | 0.04%   | 0.005%  |
| 72 | 9.825  | 1300 | 1302 | 1306 | rBV5  | 1181    | 1152    | 0.03%   | 0.004%  |
| 73 | 9.880  | 1308 | 1311 | 1313 | rBV3  | 1339    | 1510    | 0.04%   | 0.005%  |
| 74 | 10.032 | 1327 | 1336 | 1347 | rBV   | 476807  | 886118  | 21.26%  | 2.968%  |
| 75 | 10.130 | 1347 | 1352 | 1357 | rVB9  | 4171    | 9952    | 0.24%   | 0.033%  |
| 76 | 10.325 | 1376 | 1384 | 1392 | rBV   | 1954877 | 3485672 | 83.64%  | 11.673% |

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 MSVOA\_W  
 ClientSampleId :  
 A46L3

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\SFAMWLM062623SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 10.386 | 1392 | 1394 | 1399 | rVV3 | 11720   | 16833   | 0.40%  | 0.056% |
| 78  | 10.428 | 1399 | 1401 | 1403 | rVB3 | 1840    | 1259    | 0.03%  | 0.004% |
| 79  | 10.495 | 1410 | 1412 | 1418 | rVB7 | 2282    | 3854    | 0.09%  | 0.013% |
| 80  | 10.575 | 1418 | 1425 | 1437 | rBV  | 299616  | 526785  | 12.64% | 1.764% |
| 81  | 10.697 | 1441 | 1445 | 1450 | rVB2 | 8490    | 14745   | 0.35%  | 0.049% |
| 82  | 10.770 | 1454 | 1457 | 1461 | rBV5 | 2718    | 4943    | 0.12%  | 0.017% |
| 83  | 10.812 | 1463 | 1464 | 1466 | rBV2 | 1618    | 1282    | 0.03%  | 0.004% |
| 84  | 10.855 | 1469 | 1471 | 1474 | rBV4 | 1789    | 1217    | 0.03%  | 0.004% |
| 85  | 10.922 | 1476 | 1482 | 1495 | rBV  | 376907  | 704267  | 16.90% | 2.359% |
| 86  | 11.068 | 1504 | 1506 | 1510 | rBV5 | 2479    | 3916    | 0.09%  | 0.013% |
| 87  | 11.172 | 1521 | 1523 | 1524 | rBV2 | 2586    | 1985    | 0.05%  | 0.007% |
| 88  | 11.233 | 1529 | 1533 | 1535 | rVV4 | 4462    | 6788    | 0.16%  | 0.023% |
| 89  | 11.629 | 1591 | 1598 | 1610 | rBV  | 1640347 | 2771934 | 66.51% | 9.283% |
| 90  | 11.709 | 1610 | 1611 | 1618 | rVB5 | 7896    | 11102   | 0.27%  | 0.037% |
| 91  | 12.361 | 1716 | 1718 | 1723 | rVB5 | 6398    | 7058    | 0.17%  | 0.024% |
| 92  | 12.605 | 1752 | 1758 | 1764 | rBV7 | 16109   | 39728   | 0.95%  | 0.133% |
| 93  | 12.690 | 1765 | 1772 | 1779 | rBV  | 592129  | 989503  | 23.74% | 3.314% |
| 94  | 12.989 | 1804 | 1821 | 1845 | rVB5 | 181199  | 1265811 | 30.37% | 4.239% |
| 95  | 13.556 | 1907 | 1914 | 1927 | rBV  | 1482873 | 2361948 | 56.67% | 7.910% |
| 96  | 13.848 | 1955 | 1962 | 1971 | rBV  | 1192922 | 2015288 | 48.36% | 6.749% |
| 97  | 14.848 | 2116 | 2126 | 2137 | rVB4 | 365190  | 1177051 | 28.24% | 3.942% |
| 98  | 15.318 | 2199 | 2203 | 2210 | rBV4 | 49686   | 89930   | 2.16%  | 0.301% |
| 99  | 15.391 | 2211 | 2215 | 2221 | rBV8 | 15612   | 38408   | 0.92%  | 0.129% |
| 100 | 16.275 | 2355 | 2360 | 2367 | rVB  | 51680   | 97319   | 2.34%  | 0.326% |

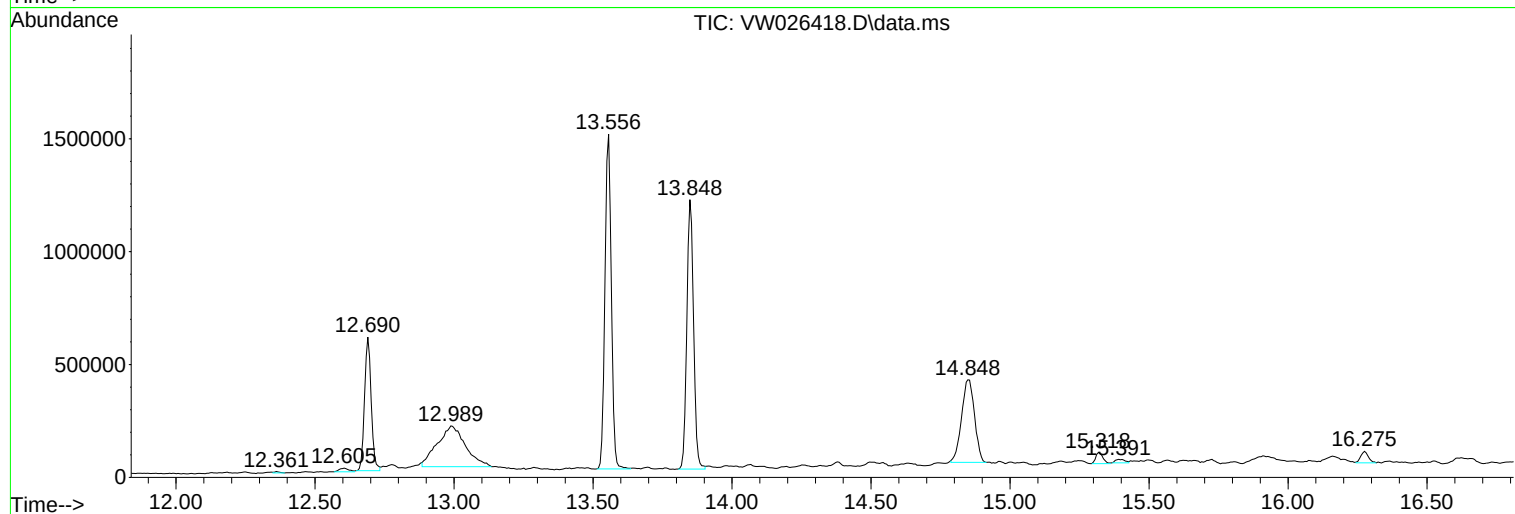
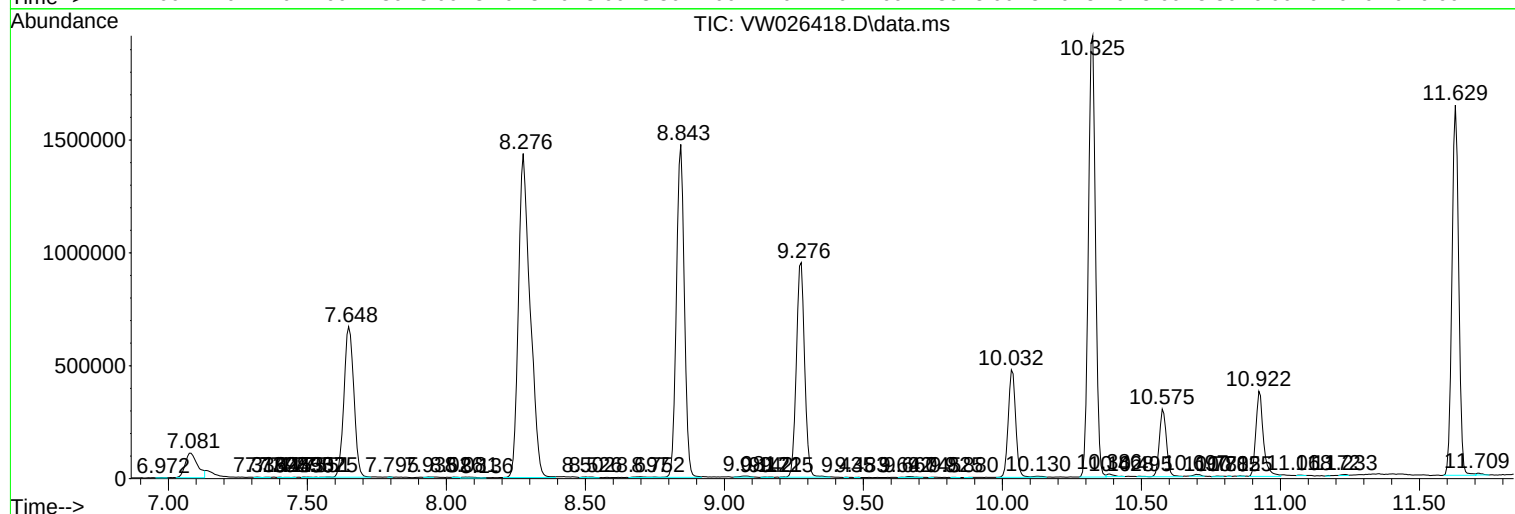
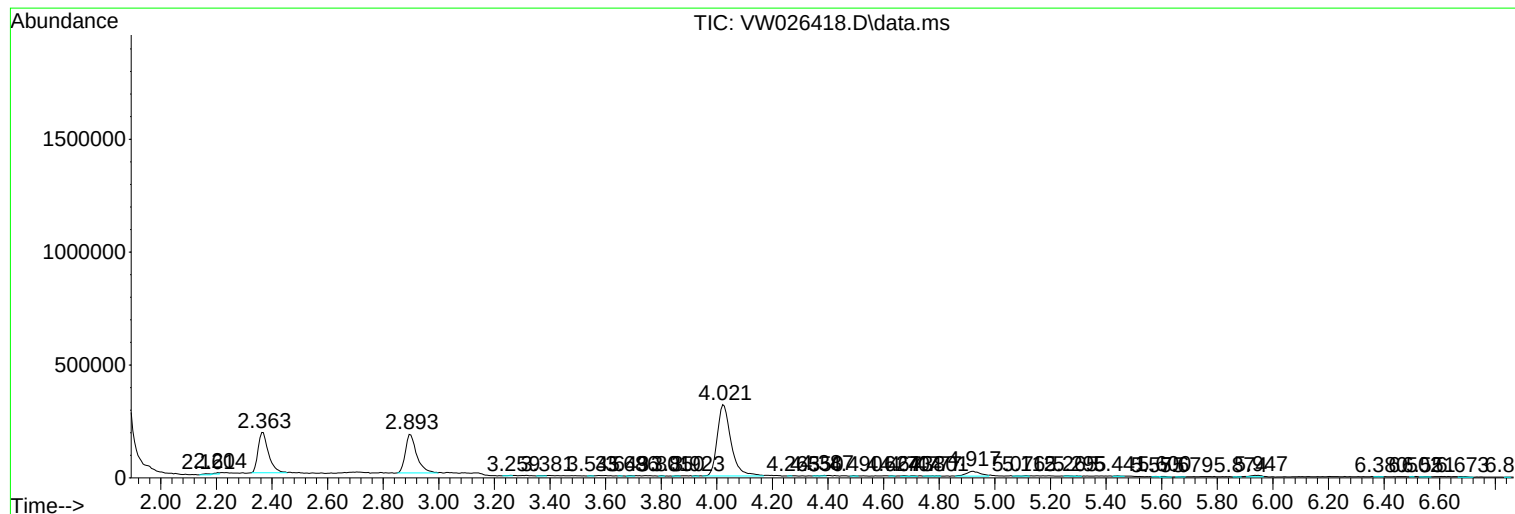
Sum of corrected areas: 29860553

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062623SMA.M  
Quant Title : SFAM01.0

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



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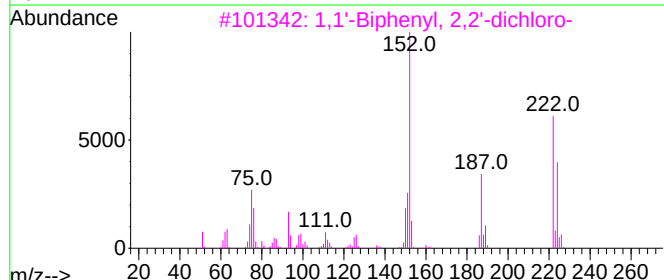
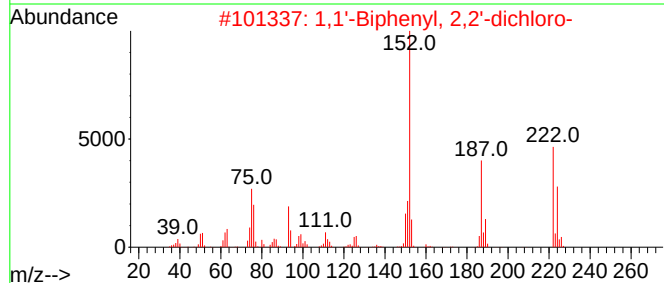
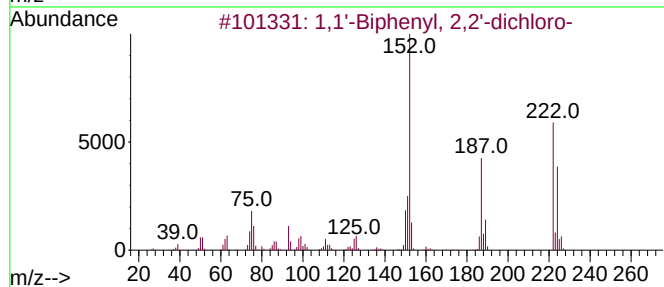
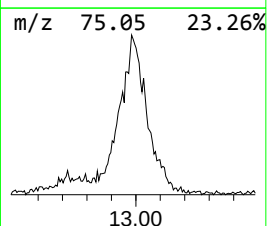
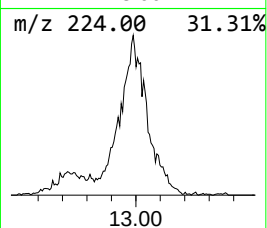
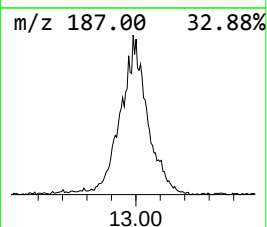
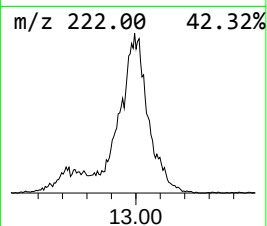
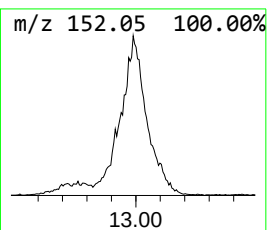
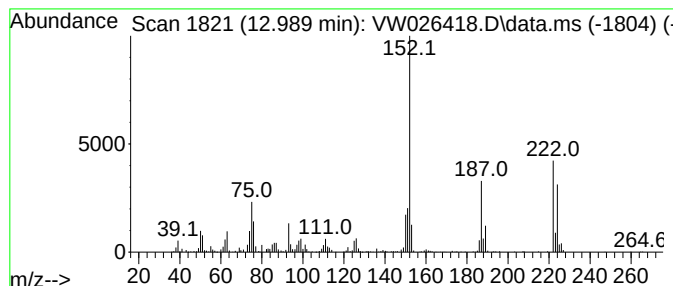
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062623SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 2 1,1'-Biphenyl, 2,2'-dichloro- Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 12.989 | 13.40 ug/L | 1265810 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of                            | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 1,1'-Biphenyl, 2,2'-dichloro- | 222 | C12H8Cl2     | 013029-08-8 | 99      |      |      |
| 2    | 1,1'-Biphenyl, 2,2'-dichloro- | 222 | C12H8Cl2     | 013029-08-8 | 99      |      |      |
| 3    | 1,1'-Biphenyl, 2,2'-dichloro- | 222 | C12H8Cl2     | 013029-08-8 | 98      |      |      |
| 4    | 1,1'-Biphenyl, 2,2'-dichloro- | 222 | C12H8Cl2     | 013029-08-8 | 98      |      |      |
| 5    | 1,1'-Biphenyl, 2,5-dichloro-  | 222 | C12H8Cl2     | 034883-39-1 | 95      |      |      |



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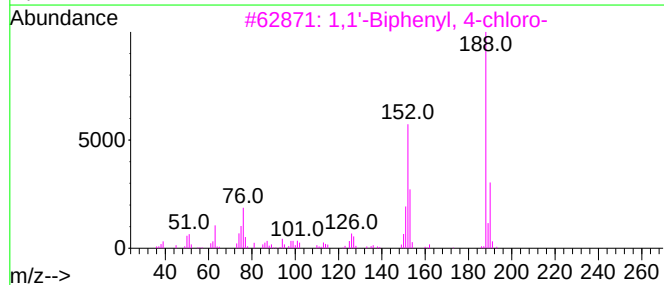
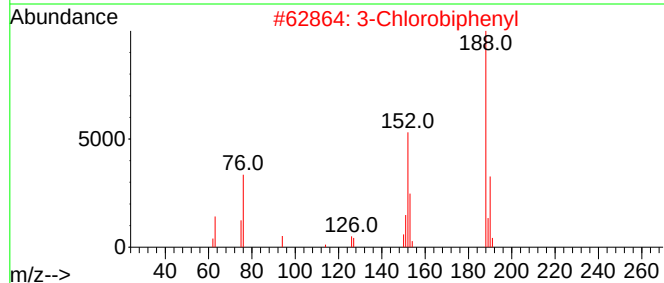
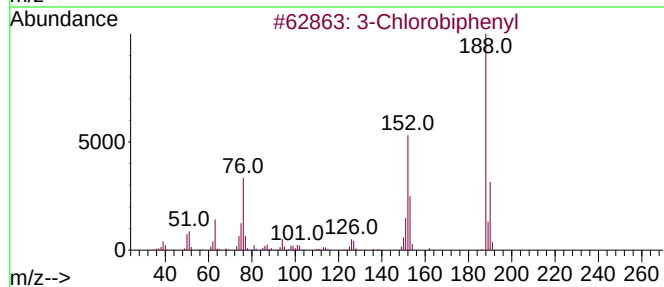
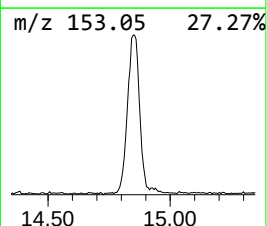
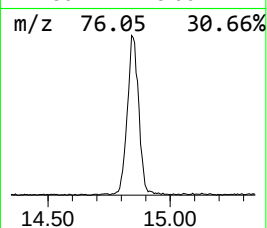
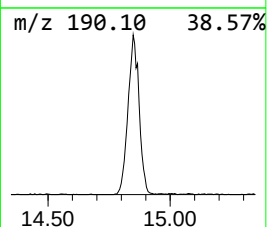
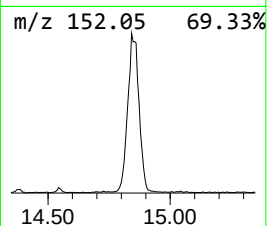
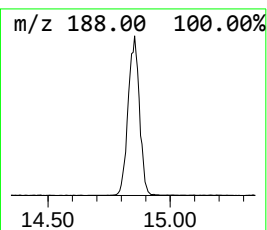
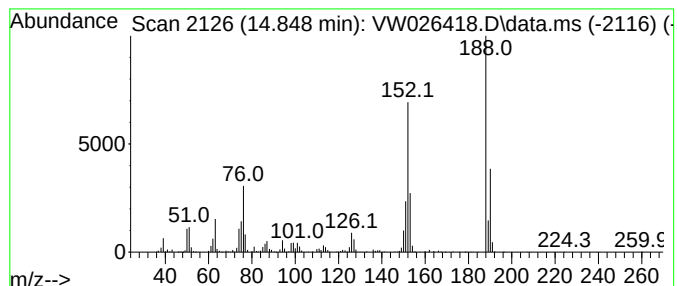
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062623SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 3 3-Chlorobiphenyl Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.848 | 12.46 ug/L | 1177050 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | 3-Chlorobiphenyl         | 188 | C12H9Cl | 002051-61-8 | 98   |
| 2    |    |   | 3-Chlorobiphenyl         | 188 | C12H9Cl | 002051-61-8 | 98   |
| 3    |    |   | 1,1'-Biphenyl, 4-chloro- | 188 | C12H9Cl | 002051-62-9 | 98   |
| 4    |    |   | 1,1'-Biphenyl, 2-chloro- | 188 | C12H9Cl | 002051-60-7 | 96   |
| 5    |    |   | 1,1'-Biphenyl, 4-chloro- | 188 | C12H9Cl | 002051-62-9 | 95   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062823\  
Data File : VW026418.D  
Acq On : 29 Jun 2023 01:12  
Operator : SY/MD  
Sample : 03458-04  
Misc : 5.14g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46L3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062623SMA.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 |
| 1,1'-Biphenyl, ... | 12.989 | 13.4    | ug/L  | 1265810  | 3                     | 13.556 | 2361950 | 25.0 |
| 3-Chlorobiphenyl   | 14.848 | 12.5    | ug/L  | 1177050  | 3                     | 13.556 | 2361950 | 25.0 |