

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW042921\  
 Data File : VW018855.D  
 Acq On : 29 Apr 2021 19:06  
 Operator : SY/VA  
 Sample : M2181-14  
 Misc : 5.35G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG7D6

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\SFAMWLM042921SMA.M  
 Title : SFAM01.0

Signal : TIC: VW018855.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         | 2.154       | 36            | 41          | 47           | rBV      | 12013          | 27145         | 0.88%           | 0.127%        |
| 2         | 2.263       | 58            | 59          | 65           | rVB4     | 1996           | 1855          | 0.06%           | 0.009%        |
| 3         | 2.355       | 65            | 74          | 87           | rBV      | 189467         | 404949        | 13.20%          | 1.899%        |
| 4         | 2.501       | 94            | 98          | 106          | rBV2     | 7692           | 17518         | 0.57%           | 0.082%        |
| 5         | 2.672       | 124           | 126         | 127          | rVB2     | 1787           | 1042          | 0.03%           | 0.005%        |
| 6         | 2.818       | 145           | 150         | 155          | rVB      | 4501           | 7546          | 0.25%           | 0.035%        |
| 7         | 2.891       | 155           | 162         | 176          | rVV      | 149824         | 364680        | 11.89%          | 1.710%        |
| 8         | 3.013       | 180           | 182         | 185          | rBV4     | 1381           | 1394          | 0.05%           | 0.007%        |
| 9         | 3.220       | 215           | 216         | 221          | rVB4     | 516            | 778           | 0.03%           | 0.004%        |
| 10        | 3.355       | 236           | 238         | 240          | rBV3     | 715            | 688           | 0.02%           | 0.003%        |
| 11        | 3.379       | 240           | 242         | 243          | rBV2     | 905            | 639           | 0.02%           | 0.003%        |
| 12        | 3.446       | 251           | 253         | 256          | rVB2     | 391            | 385           | 0.01%           | 0.002%        |
| 13        | 3.580       | 271           | 275         | 276          | rBV3     | 562            | 482           | 0.02%           | 0.002%        |
| 14        | 3.714       | 293           | 297         | 298          | rBV2     | 515            | 615           | 0.02%           | 0.003%        |
| 15        | 3.751       | 302           | 303         | 308          | rVB4     | 552            | 541           | 0.02%           | 0.003%        |
| 16        | 3.800       | 308           | 311         | 314          | rVB2     | 321            | 419           | 0.01%           | 0.002%        |
| 17        | 3.861       | 319           | 321         | 324          | rBV2     | 383            | 476           | 0.02%           | 0.002%        |
| 18        | 3.909       | 324           | 329         | 334          | rVB4     | 688            | 1381          | 0.05%           | 0.006%        |
| 19        | 4.019       | 334           | 347         | 362          | rBV2     | 328500         | 1031820       | 33.64%          | 4.838%        |
| 20        | 4.135       | 362           | 366         | 383          | rVB2     | 14276          | 40744         | 1.33%           | 0.191%        |
| 21        | 4.379       | 397           | 406         | 407          | rBV      | 4885           | 8010          | 0.26%           | 0.038%        |
| 22        | 4.623       | 442           | 446         | 447          | rBV4     | 600            | 813           | 0.03%           | 0.004%        |
| 23        | 4.732       | 462           | 464         | 467          | rVB2     | 425            | 527           | 0.02%           | 0.002%        |
| 24        | 4.781       | 471           | 472         | 476          | rVB      | 530            | 455           | 0.01%           | 0.002%        |
| 25        | 4.842       | 478           | 482         | 483          | rBV2     | 397            | 470           | 0.02%           | 0.002%        |
| 26        | 4.921       | 483           | 495         | 516          | rBV2     | 41154          | 148278        | 4.83%           | 0.695%        |
| 27        | 5.226       | 544           | 545         | 549          | rVB3     | 531            | 451           | 0.01%           | 0.002%        |
| 28        | 5.415       | 574           | 576         | 579          | rBV2     | 732            | 923           | 0.03%           | 0.004%        |
| 29        | 5.440       | 579           | 580         | 589          | rVB3     | 1132           | 1846          | 0.06%           | 0.009%        |
| 30        | 5.507       | 589           | 591         | 597          | rBV3     | 492            | 818           | 0.03%           | 0.004%        |
| 31        | 5.793       | 626           | 638         | 651          | rBV4     | 5708           | 20374         | 0.66%           | 0.096%        |
| 32        | 5.939       | 654           | 662         | 675          | rVB3     | 12225          | 34418         | 1.12%           | 0.161%        |
| 33        | 6.098       | 681           | 688         | 689          | rBV4     | 523            | 659           | 0.02%           | 0.003%        |
| 34        | 6.189       | 699           | 703         | 706          | rBV3     | 456            | 899           | 0.03%           | 0.004%        |
| 35        | 6.281       | 715           | 718         | 721          | rBV2     | 406            | 508           | 0.02%           | 0.002%        |
| 36        | 6.537       | 757           | 760         | 763          | rVB2     | 429            | 389           | 0.01%           | 0.002%        |

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Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM042921SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 37 | 6.769  | 796  | 798  | 801  | rBV2 | 392     | 451     | 0.01%   | 0.002%  |
| 38 | 6.811  | 801  | 805  | 810  | rVB2 | 371     | 454     | 0.01%   | 0.002%  |
| 39 | 6.909  | 812  | 821  | 831  | rBV4 | 3323    | 10361   | 0.34%   | 0.049%  |
| 40 | 6.982  | 831  | 833  | 835  | rBV2 | 550     | 396     | 0.01%   | 0.002%  |
| 41 | 7.079  | 840  | 849  | 857  | rBV  | 68348   | 208512  | 6.80%   | 0.978%  |
| 42 | 7.140  | 857  | 859  | 874  | rVV4 | 30350   | 86994   | 2.84%   | 0.408%  |
| 43 | 7.445  | 904  | 909  | 911  | rVV3 | 733     | 956     | 0.03%   | 0.004%  |
| 44 | 7.464  | 911  | 912  | 915  | rVB3 | 579     | 430     | 0.01%   | 0.002%  |
| 45 | 7.543  | 924  | 925  | 926  | rBV  | 718     | 463     | 0.02%   | 0.002%  |
| 46 | 7.653  | 931  | 943  | 956  | rBV  | 505744  | 1237491 | 40.34%  | 5.803%  |
| 47 | 7.762  | 957  | 961  | 964  | rVV6 | 860     | 1656    | 0.05%   | 0.008%  |
| 48 | 7.787  | 964  | 965  | 967  | rVB2 | 848     | 476     | 0.02%   | 0.002%  |
| 49 | 7.805  | 967  | 968  | 972  | rVB3 | 441     | 487     | 0.02%   | 0.002%  |
| 50 | 7.933  | 984  | 989  | 990  | rBV3 | 990     | 1367    | 0.04%   | 0.006%  |
| 51 | 7.945  | 990  | 991  | 998  | rVB6 | 1551    | 2919    | 0.10%   | 0.014%  |
| 52 | 8.171  | 1026 | 1028 | 1030 | rVB2 | 503     | 381     | 0.01%   | 0.002%  |
| 53 | 8.274  | 1030 | 1045 | 1062 | rBV2 | 1024338 | 3067387 | 100.00% | 14.383% |
| 54 | 8.396  | 1063 | 1065 | 1072 | rVV3 | 2957    | 5503    | 0.18%   | 0.026%  |
| 55 | 8.555  | 1084 | 1091 | 1096 | rBV8 | 2927    | 6525    | 0.21%   | 0.031%  |
| 56 | 8.701  | 1110 | 1115 | 1118 | rBV6 | 2774    | 5177    | 0.17%   | 0.024%  |
| 57 | 8.841  | 1128 | 1138 | 1148 | rBV  | 932441  | 1844080 | 60.12%  | 8.647%  |
| 58 | 9.079  | 1171 | 1177 | 1182 | rBV4 | 2301    | 4025    | 0.13%   | 0.019%  |
| 59 | 9.213  | 1194 | 1199 | 1200 | rBV3 | 833     | 1350    | 0.04%   | 0.006%  |
| 60 | 9.274  | 1200 | 1209 | 1219 | rBV  | 671419  | 1350479 | 44.03%  | 6.333%  |
| 61 | 9.414  | 1229 | 1232 | 1238 | rVB2 | 3442    | 5266    | 0.17%   | 0.025%  |
| 62 | 9.463  | 1238 | 1240 | 1244 | rVB5 | 606     | 626     | 0.02%   | 0.003%  |
| 63 | 9.518  | 1247 | 1249 | 1255 | rVB5 | 1029    | 1355    | 0.04%   | 0.006%  |
| 64 | 9.603  | 1261 | 1263 | 1269 | rVB5 | 681     | 1057    | 0.03%   | 0.005%  |
| 65 | 9.658  | 1269 | 1272 | 1274 | rBV4 | 775     | 1034    | 0.03%   | 0.005%  |
| 66 | 9.756  | 1281 | 1288 | 1295 | rBV6 | 3836    | 10147   | 0.33%   | 0.048%  |
| 67 | 9.896  | 1304 | 1311 | 1316 | rVB6 | 6860    | 14539   | 0.47%   | 0.068%  |
| 68 | 9.945  | 1316 | 1319 | 1320 | rBV3 | 414     | 493     | 0.02%   | 0.002%  |
| 69 | 10.036 | 1325 | 1334 | 1342 | rBV  | 377783  | 671443  | 21.89%  | 3.148%  |
| 70 | 10.213 | 1358 | 1363 | 1365 | rBV5 | 3305    | 5153    | 0.17%   | 0.024%  |
| 71 | 10.244 | 1366 | 1368 | 1373 | rVB4 | 2567    | 3331    | 0.11%   | 0.016%  |
| 72 | 10.323 | 1373 | 1381 | 1389 | rBV  | 1505806 | 2622903 | 85.51%  | 12.299% |
| 73 | 10.390 | 1389 | 1392 | 1397 | rVB  | 22582   | 33623   | 1.10%   | 0.158%  |
| 74 | 10.493 | 1407 | 1409 | 1414 | rBV6 | 1876    | 2879    | 0.09%   | 0.014%  |
| 75 | 10.579 | 1416 | 1423 | 1431 | rBV  | 236309  | 394876  | 12.87%  | 1.852%  |
| 76 | 10.701 | 1438 | 1443 | 1450 | rBV2 | 10106   | 17735   | 0.58%   | 0.083%  |

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 MSVOA\_W  
 ClientSampleId :  
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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\SFAMWLM042921SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 10.774 | 1450 | 1455 | 1456 | rBV5 | 5247    | 6829    | 0.22%  | 0.032% |
| 78  | 10.926 | 1473 | 1480 | 1488 | rBV  | 298945  | 491137  | 16.01% | 2.303% |
| 79  | 11.067 | 1499 | 1503 | 1508 | rBV4 | 13347   | 26309   | 0.86%  | 0.123% |
| 80  | 11.286 | 1535 | 1539 | 1541 | rBV5 | 2164    | 3237    | 0.11%  | 0.015% |
| 81  | 11.438 | 1560 | 1564 | 1569 | rBV2 | 12207   | 19590   | 0.64%  | 0.092% |
| 82  | 11.634 | 1588 | 1596 | 1607 | rVB  | 1254119 | 2088764 | 68.10% | 9.795% |
| 83  | 11.841 | 1627 | 1630 | 1636 | rVB7 | 4291    | 6514    | 0.21%  | 0.031% |
| 84  | 11.932 | 1642 | 1645 | 1646 | rBV3 | 1991    | 2326    | 0.08%  | 0.011% |
| 85  | 12.243 | 1694 | 1696 | 1701 | rVB6 | 2647    | 3503    | 0.11%  | 0.016% |
| 86  | 12.335 | 1708 | 1711 | 1717 | rBV8 | 8146    | 12254   | 0.40%  | 0.057% |
| 87  | 12.383 | 1717 | 1719 | 1720 | rBV2 | 1711    | 1038    | 0.03%  | 0.005% |
| 88  | 12.609 | 1748 | 1756 | 1762 | rBV3 | 24844   | 56053   | 1.83%  | 0.263% |
| 89  | 12.694 | 1763 | 1770 | 1778 | rVV  | 478465  | 780918  | 25.46% | 3.662% |
| 90  | 13.298 | 1863 | 1869 | 1871 | rBV4 | 29158   | 55661   | 1.81%  | 0.261% |
| 91  | 13.469 | 1892 | 1897 | 1904 | rVB7 | 21579   | 44098   | 1.44%  | 0.207% |
| 92  | 13.560 | 1905 | 1912 | 1919 | rBV  | 1083164 | 1773690 | 57.82% | 8.317% |
| 93  | 13.853 | 1953 | 1960 | 1967 | rBV  | 1078241 | 1764163 | 57.51% | 8.272% |
| 94  | 14.066 | 1992 | 1995 | 2008 | rVB2 | 26205   | 55935   | 1.82%  | 0.262% |
| 95  | 14.322 | 2034 | 2037 | 2042 | rVB7 | 15490   | 23236   | 0.76%  | 0.109% |
| 96  | 14.383 | 2045 | 2047 | 2056 | rVB8 | 15369   | 23149   | 0.75%  | 0.109% |
| 97  | 14.956 | 2132 | 2141 | 2151 | rBV2 | 62355   | 194779  | 6.35%  | 0.913% |
| 98  | 15.328 | 2197 | 2202 | 2209 | rBV7 | 19617   | 47468   | 1.55%  | 0.223% |
| 99  | 15.432 | 2216 | 2219 | 2224 | rVB2 | 24250   | 37083   | 1.21%  | 0.174% |
| 100 | 15.621 | 2247 | 2250 | 2263 | rVB8 | 19189   | 58419   | 1.90%  | 0.274% |

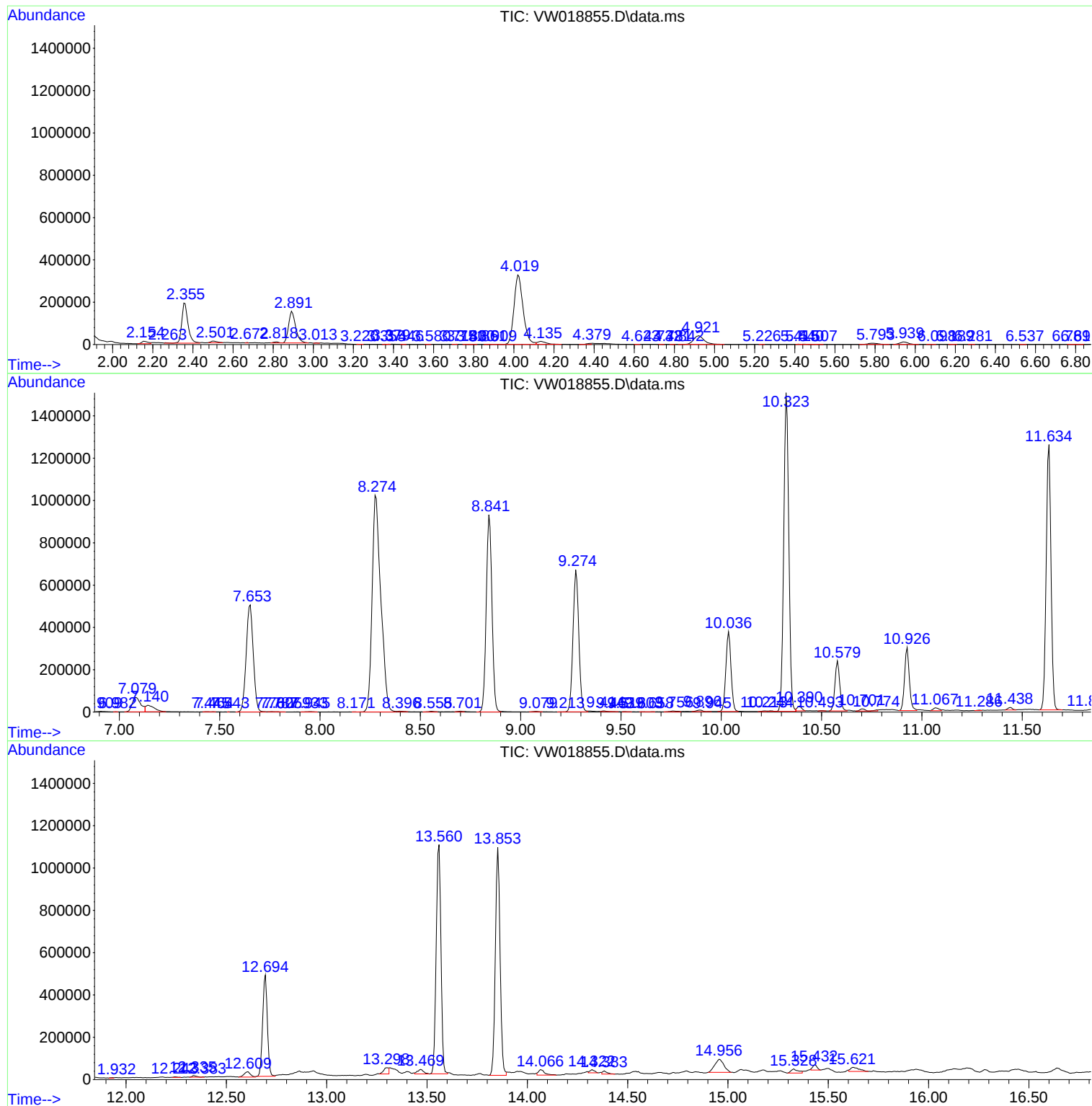
Sum of corrected areas: 21325868

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM042921SMA.M  
Quant Title : SFAM01.0

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



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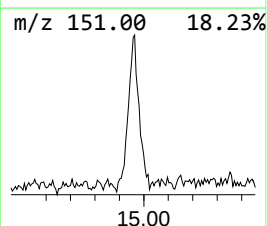
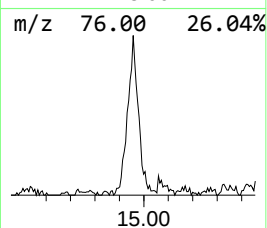
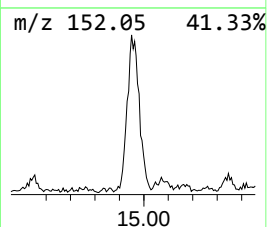
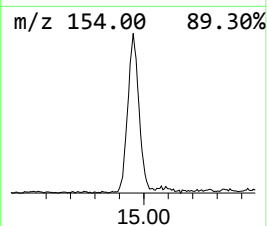
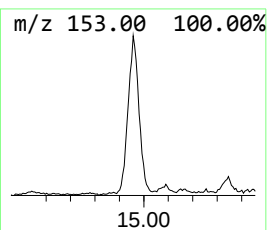
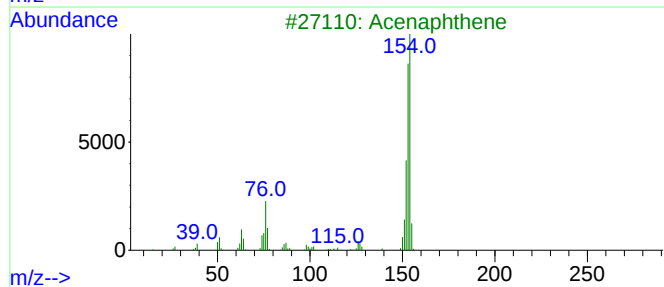
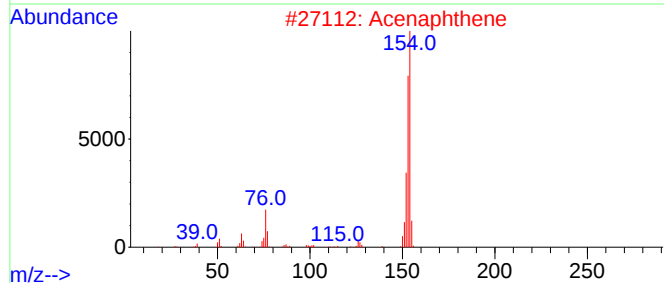
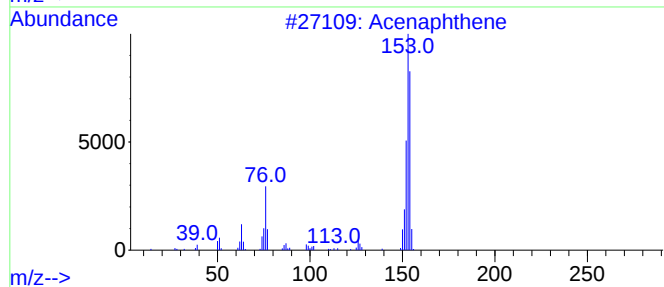
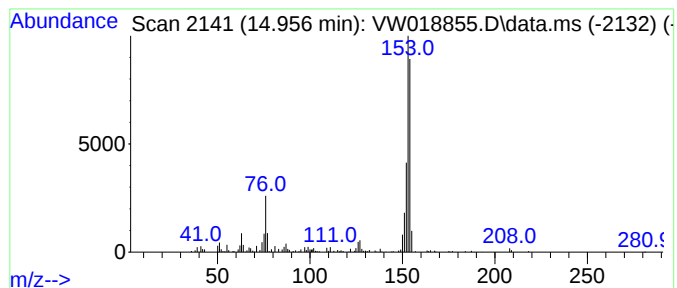
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM042921SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 2 Acenaphthene Concentration Rank 2

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.956 | 2.75 ug/L | 194779 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Acenaphthene            | 154 | C12H10  | 000083-32-9 | 95   |
| 2    |    |   | Acenaphthene            | 154 | C12H10  | 000083-32-9 | 74   |
| 3    |    |   | Acenaphthene            | 154 | C12H10  | 000083-32-9 | 60   |
| 4    |    |   | Naphthalene, 2-ethenyl- | 154 | C12H10  | 000827-54-3 | 58   |
| 5    |    |   | Acenaphthene            | 154 | C12H10  | 000083-32-9 | 53   |



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| TIC Top Hit name | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                  |        |         |       |          | #                     | RT     | Resp    | Conc |
| Acenaphthene     | 14.956 | 2.8     | ug/L  | 194779   | 3                     | 13.560 | 1773690 | 25.0 |