

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061124\  
 Data File : VD079170.D  
 Acq On : 11 Jun 2024 18:50  
 Operator : RP/MD  
 Sample : P2775-13  
 Misc : 5.60G/10ml/MSVOA\_D/SOIL/A  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A4C95

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\_D\Method\SFAMDLM052924SMA.M  
 Title : SFAM01.0

Signal : TIC: VD079170.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         | 1.623       | 3             | 6           | 7            | rBV      | 427            | 463           | 0.04%           | 0.011%        |
| 2         | 1.634       | 7             | 8           | 12           | rVB2     | 650            | 630           | 0.05%           | 0.014%        |
| 3         | 1.693       | 12            | 18          | 19           | rBV      | 3053           | 4052          | 0.34%           | 0.092%        |
| 4         | 1.740       | 19            | 26          | 42           | rVB      | 738979         | 1198819       | 100.00%         | 27.313%       |
| 5         | 2.146       | 92            | 95          | 96           | rBV      | 1800           | 1437          | 0.12%           | 0.033%        |
| 6         | 2.275       | 111           | 117         | 126          | rBV      | 98085          | 141224        | 11.78%          | 3.218%        |
| 7         | 2.493       | 153           | 154         | 155          | rBV      | 1280           | 519           | 0.04%           | 0.012%        |
| 8         | 2.799       | 200           | 206         | 219          | rVB      | 85594          | 167176        | 13.95%          | 3.809%        |
| 9         | 2.958       | 227           | 233         | 239          | rVB2     | 12713          | 23423         | 1.95%           | 0.534%        |
| 10        | 3.175       | 268           | 270         | 272          | rVB      | 827            | 423           | 0.04%           | 0.010%        |
| 11        | 3.634       | 345           | 348         | 350          | rVB2     | 1044           | 895           | 0.07%           | 0.020%        |
| 12        | 3.652       | 350           | 351         | 353          | rBV      | 908            | 785           | 0.07%           | 0.018%        |
| 13        | 3.922       | 387           | 397         | 409          | rVB2     | 53948          | 146644        | 12.23%          | 3.341%        |
| 14        | 4.011       | 409           | 412         | 413          | rBV      | 714            | 654           | 0.05%           | 0.015%        |
| 15        | 4.040       | 415           | 417         | 420          | rVV2     | 614            | 488           | 0.04%           | 0.011%        |
| 16        | 4.316       | 461           | 464         | 468          | rBV2     | 533            | 791           | 0.07%           | 0.018%        |
| 17        | 4.440       | 482           | 485         | 486          | rBV2     | 509            | 624           | 0.05%           | 0.014%        |
| 18        | 4.552       | 502           | 504         | 507          | rBV      | 365            | 422           | 0.04%           | 0.010%        |
| 19        | 4.593       | 510           | 511         | 513          | rBV      | 445            | 436           | 0.04%           | 0.010%        |
| 20        | 4.805       | 537           | 547         | 560          | rVB4     | 19814          | 62758         | 5.23%           | 1.430%        |
| 21        | 4.975       | 573           | 576         | 578          | rVB      | 424            | 398           | 0.03%           | 0.009%        |
| 22        | 5.052       | 586           | 589         | 593          | rBV2     | 565            | 1023          | 0.09%           | 0.023%        |
| 23        | 5.169       | 607           | 609         | 613          | rBV2     | 640            | 839           | 0.07%           | 0.019%        |
| 24        | 5.216       | 613           | 617         | 618          | rVV      | 489            | 554           | 0.05%           | 0.013%        |
| 25        | 5.305       | 627           | 632         | 634          | rVB      | 716            | 1037          | 0.09%           | 0.024%        |
| 26        | 5.328       | 634           | 636         | 637          | rBV      | 799            | 430           | 0.04%           | 0.010%        |
| 27        | 5.363       | 640           | 642         | 645          | rVV2     | 618            | 552           | 0.05%           | 0.013%        |
| 28        | 5.628       | 685           | 687         | 689          | rVV2     | 377            | 449           | 0.04%           | 0.010%        |
| 29        | 5.687       | 693           | 697         | 700          | rVB2     | 458            | 674           | 0.06%           | 0.015%        |
| 30        | 5.722       | 700           | 703         | 704          | rBV2     | 405            | 462           | 0.04%           | 0.011%        |
| 31        | 5.787       | 709           | 714         | 716          | rBV2     | 492            | 635           | 0.05%           | 0.014%        |
| 32        | 5.846       | 716           | 724         | 729          | rBV4     | 2787           | 6518          | 0.54%           | 0.149%        |
| 33        | 6.016       | 750           | 753         | 754          | rBV      | 760            | 604           | 0.05%           | 0.014%        |
| 34        | 6.187       | 779           | 782         | 785          | rBV2     | 417            | 495           | 0.04%           | 0.011%        |
| 35        | 6.252       | 789           | 793         | 794          | rBV2     | 413            | 423           | 0.04%           | 0.010%        |
| 36        | 6.540       | 839           | 842         | 844          | rVV2     | 577            | 714           | 0.06%           | 0.016%        |

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Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A4C95

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\_D\Method\SFAMDLM052924SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 37 | 6.575  | 844  | 848  | 850  | rVV2 | 468    | 712    | 0.06%  | 0.016%  |
| 38 | 6.616  | 853  | 855  | 860  | rVV  | 673    | 775    | 0.06%  | 0.018%  |
| 39 | 6.799  | 884  | 886  | 888  | rVB  | 662    | 540    | 0.05%  | 0.012%  |
| 40 | 6.828  | 888  | 891  | 893  | rBV2 | 537    | 690    | 0.06%  | 0.016%  |
| 41 | 6.846  | 893  | 894  | 897  | rVB  | 648    | 391    | 0.03%  | 0.009%  |
| 42 | 6.987  | 908  | 918  | 920  | rBV2 | 6917   | 14683  | 1.22%  | 0.335%  |
| 43 | 7.158  | 944  | 947  | 948  | rBV  | 447    | 386    | 0.03%  | 0.009%  |
| 44 | 7.181  | 948  | 951  | 953  | rVB  | 599    | 528    | 0.04%  | 0.012%  |
| 45 | 7.410  | 988  | 990  | 993  | rVB  | 704    | 776    | 0.06%  | 0.018%  |
| 46 | 7.569  | 1007 | 1017 | 1028 | rBV  | 82267  | 213632 | 17.82% | 4.867%  |
| 47 | 7.663  | 1031 | 1033 | 1035 | rVB  | 827    | 672    | 0.06%  | 0.015%  |
| 48 | 7.681  | 1035 | 1036 | 1037 | rBV  | 762    | 443    | 0.04%  | 0.010%  |
| 49 | 7.728  | 1043 | 1044 | 1046 | rBV  | 498    | 390    | 0.03%  | 0.009%  |
| 50 | 7.810  | 1057 | 1058 | 1062 | rVV2 | 414    | 598    | 0.05%  | 0.014%  |
| 51 | 7.863  | 1064 | 1067 | 1069 | rBV  | 441    | 433    | 0.04%  | 0.010%  |
| 52 | 7.893  | 1069 | 1072 | 1076 | rVB2 | 749    | 872    | 0.07%  | 0.020%  |
| 53 | 7.981  | 1085 | 1087 | 1089 | rBV  | 572    | 425    | 0.04%  | 0.010%  |
| 54 | 8.069  | 1100 | 1102 | 1104 | rBV  | 526    | 490    | 0.04%  | 0.011%  |
| 55 | 8.205  | 1116 | 1125 | 1140 | rVB3 | 150381 | 445561 | 37.17% | 10.151% |
| 56 | 8.457  | 1167 | 1168 | 1170 | rBV2 | 479    | 412    | 0.03%  | 0.009%  |
| 57 | 8.616  | 1194 | 1195 | 1198 | rVB2 | 815    | 658    | 0.05%  | 0.015%  |
| 58 | 8.652  | 1198 | 1201 | 1203 | rBV2 | 563    | 554    | 0.05%  | 0.013%  |
| 59 | 8.681  | 1203 | 1206 | 1207 | rBV  | 459    | 464    | 0.04%  | 0.011%  |
| 60 | 8.781  | 1214 | 1223 | 1231 | rBV  | 155120 | 315102 | 26.28% | 7.179%  |
| 61 | 8.899  | 1241 | 1243 | 1246 | rBV2 | 489    | 530    | 0.04%  | 0.012%  |
| 62 | 9.099  | 1275 | 1277 | 1280 | rBV2 | 497    | 530    | 0.04%  | 0.012%  |
| 63 | 9.210  | 1288 | 1296 | 1306 | rBV  | 98728  | 209324 | 17.46% | 4.769%  |
| 64 | 9.316  | 1313 | 1314 | 1317 | rBV2 | 542    | 421    | 0.04%  | 0.010%  |
| 65 | 9.699  | 1377 | 1379 | 1382 | rBV  | 477    | 629    | 0.05%  | 0.014%  |
| 66 | 9.799  | 1395 | 1396 | 1398 | rBV  | 522    | 400    | 0.03%  | 0.009%  |
| 67 | 9.846  | 1403 | 1404 | 1407 | rBV  | 457    | 478    | 0.04%  | 0.011%  |
| 68 | 9.899  | 1412 | 1413 | 1415 | rBV  | 506    | 474    | 0.04%  | 0.011%  |
| 69 | 9.975  | 1419 | 1426 | 1433 | rBV2 | 43230  | 80306  | 6.70%  | 1.830%  |
| 70 | 10.128 | 1449 | 1452 | 1454 | rBV2 | 749    | 646    | 0.05%  | 0.015%  |
| 71 | 10.269 | 1468 | 1476 | 1484 | rBV  | 177212 | 310538 | 25.90% | 7.075%  |
| 72 | 10.451 | 1506 | 1507 | 1510 | rBV  | 541    | 429    | 0.04%  | 0.010%  |
| 73 | 10.522 | 1513 | 1519 | 1529 | rVV  | 27743  | 47391  | 3.95%  | 1.080%  |
| 74 | 10.663 | 1537 | 1543 | 1549 | rVB4 | 5935   | 11614  | 0.97%  | 0.265%  |
| 75 | 10.704 | 1549 | 1550 | 1554 | rBV  | 411    | 471    | 0.04%  | 0.011%  |
| 76 | 10.875 | 1573 | 1579 | 1585 | rBV  | 24622  | 41151  | 3.43%  | 0.938%  |

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 Sample : P2775-13  
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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A4C95

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\_D\Method\SFAMDLM052924SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 11.163 | 1625 | 1628 | 1631 | rBV2 | 614    | 938    | 0.08%  | 0.021% |
| 78  | 11.463 | 1677 | 1679 | 1683 | rVB  | 545    | 581    | 0.05%  | 0.013% |
| 79  | 11.581 | 1691 | 1699 | 1708 | rBV  | 182412 | 315817 | 26.34% | 7.195% |
| 80  | 11.663 | 1710 | 1713 | 1714 | rBV  | 1168   | 1405   | 0.12%  | 0.032% |
| 81  | 11.898 | 1752 | 1753 | 1755 | rBV2 | 568    | 477    | 0.04%  | 0.011% |
| 82  | 12.122 | 1789 | 1791 | 1794 | rBV2 | 563    | 550    | 0.05%  | 0.013% |
| 83  | 12.287 | 1817 | 1819 | 1823 | rVB2 | 1475   | 1884   | 0.16%  | 0.043% |
| 84  | 12.316 | 1823 | 1824 | 1828 | rBV  | 685    | 773    | 0.06%  | 0.018% |
| 85  | 12.428 | 1837 | 1843 | 1850 | rVB2 | 82913  | 138826 | 11.58% | 3.163% |
| 86  | 12.575 | 1863 | 1868 | 1874 | rVB2 | 7669   | 13286  | 1.11%  | 0.303% |
| 87  | 12.651 | 1874 | 1881 | 1889 | rBV  | 69816  | 114946 | 9.59%  | 2.619% |
| 88  | 12.828 | 1909 | 1911 | 1915 | rVV2 | 446    | 568    | 0.05%  | 0.013% |
| 89  | 12.981 | 1932 | 1937 | 1943 | rVB3 | 27046  | 44363  | 3.70%  | 1.011% |
| 90  | 13.181 | 1970 | 1971 | 1973 | rBV  | 741    | 532    | 0.04%  | 0.012% |
| 91  | 13.463 | 2016 | 2019 | 2022 | rVB2 | 1442   | 1560   | 0.13%  | 0.036% |
| 92  | 13.516 | 2022 | 2028 | 2034 | rBV2 | 98563  | 156630 | 13.07% | 3.569% |
| 93  | 13.616 | 2043 | 2045 | 2048 | rBV3 | 1375   | 1546   | 0.13%  | 0.035% |
| 94  | 13.810 | 2072 | 2078 | 2087 | rVB  | 70353  | 114952 | 9.59%  | 2.619% |
| 95  | 13.916 | 2094 | 2096 | 2100 | rBV2 | 764    | 1027   | 0.09%  | 0.023% |
| 96  | 14.416 | 2178 | 2181 | 2184 | rVB4 | 1782   | 1946   | 0.16%  | 0.044% |
| 97  | 14.704 | 2229 | 2230 | 2231 | rBV  | 914    | 491    | 0.04%  | 0.011% |
| 98  | 14.934 | 2267 | 2269 | 2270 | rBV2 | 771    | 698    | 0.06%  | 0.016% |
| 99  | 15.198 | 2312 | 2314 | 2315 | rBV  | 872    | 817    | 0.07%  | 0.019% |
| 100 | 15.551 | 2372 | 2374 | 2376 | rBV2 | 919    | 587    | 0.05%  | 0.013% |

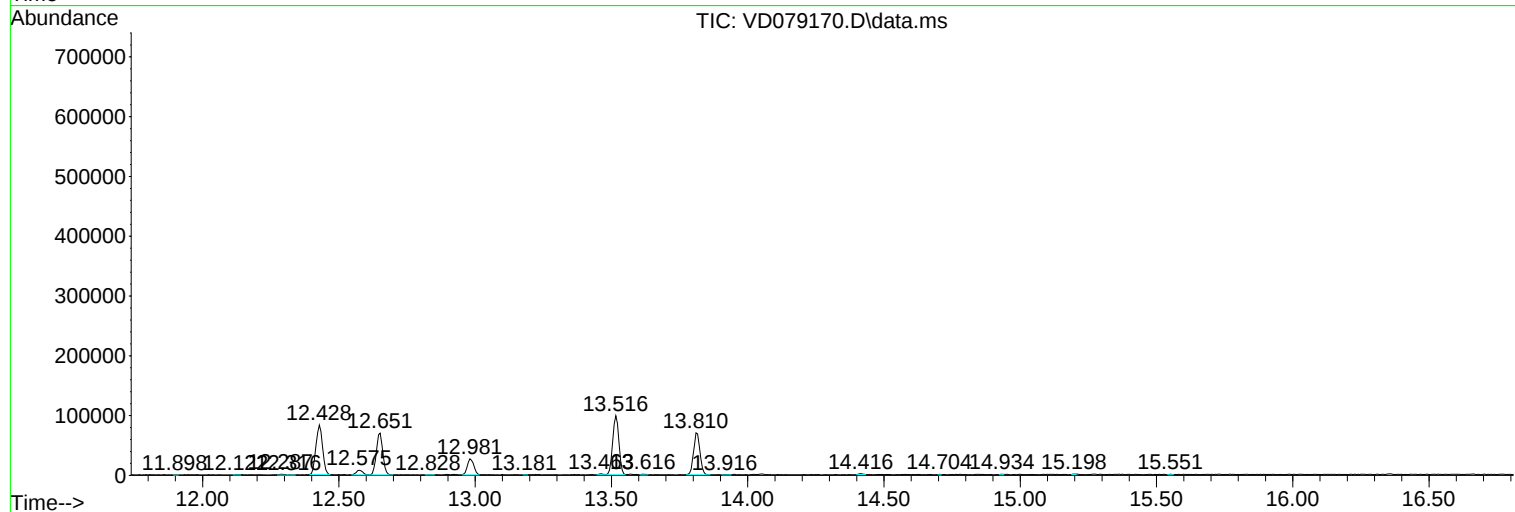
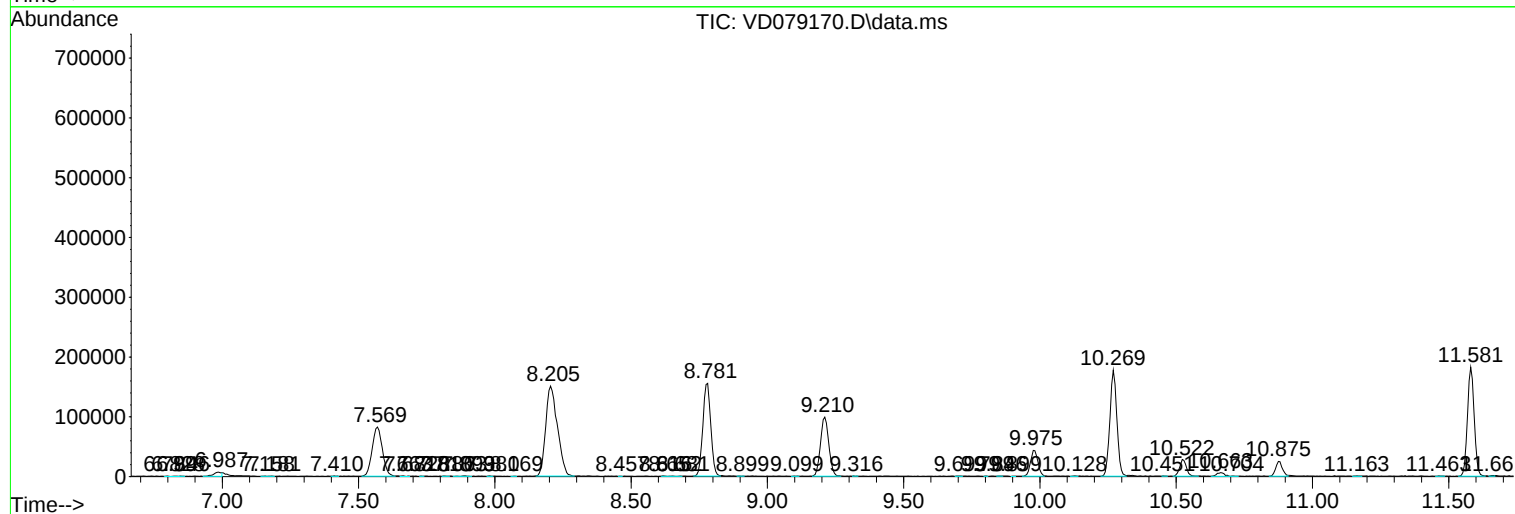
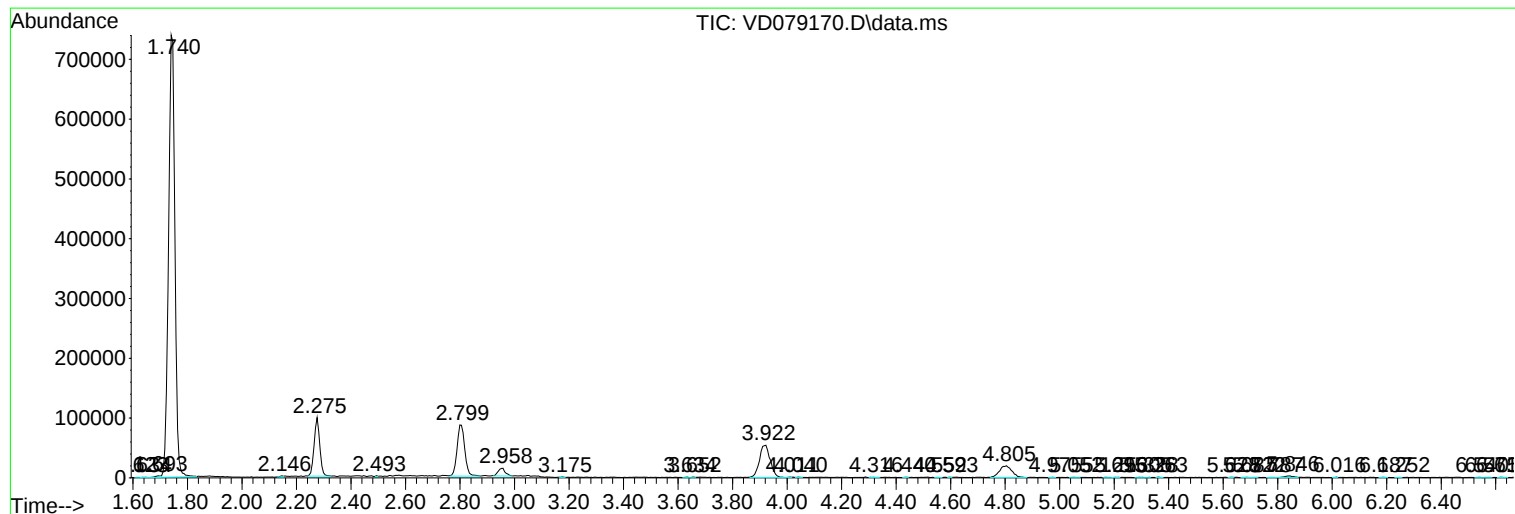
Sum of corrected areas: 4389189

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Sample : P2775-13  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
A4C95

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
Quant Title : SFAM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061124\  
Data File : VD079170.D  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
A4C95

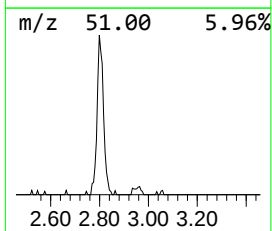
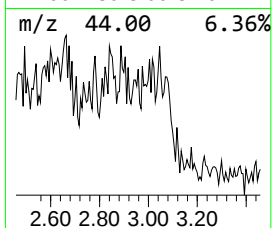
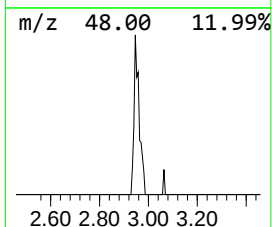
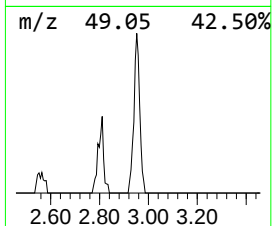
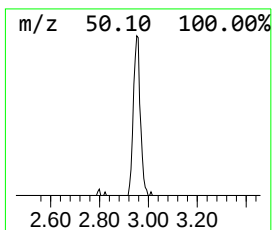
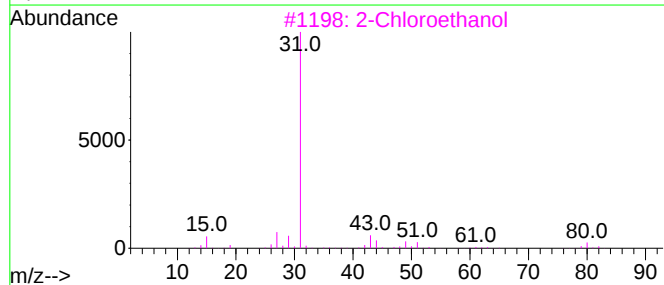
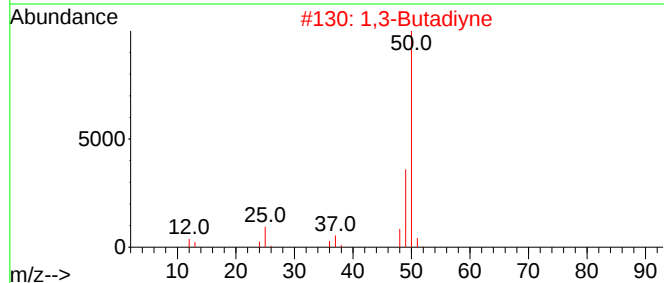
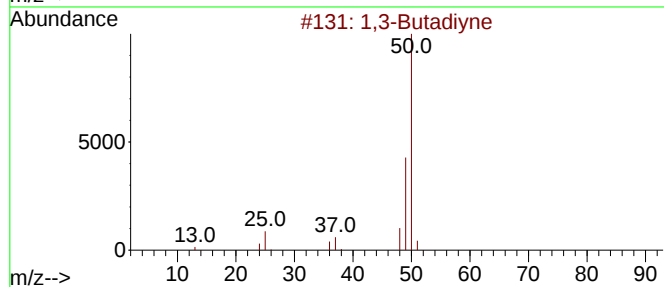
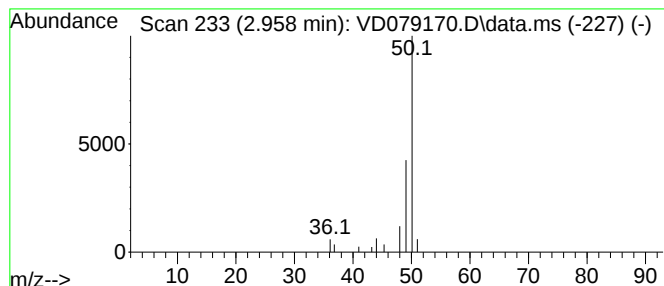
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 2 1,3-Butadiyne Concentration Rank 6

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 2.958 | 1.86 ug/L | 23423 | 1,4-Difluorobenzene | 8.775 |

| Hit# | of              | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-----------------|---|--------------|----|---------|-------------|------|
| 1    | 1,3-Butadiyne   |   |              | 50 | C4H2    | 000460-12-8 | 83   |
| 2    | 1,3-Butadiyne   |   |              | 50 | C4H2    | 000460-12-8 | 83   |
| 3    | 2-Chloroethanol |   |              | 80 | C2H5ClO | 000107-07-3 | 1    |
| 4    | 2-Chloroethanol |   |              | 80 | C2H5ClO | 000107-07-3 | 1    |
| 5    | 2-Chloroethanol |   |              | 80 | C2H5ClO | 000107-07-3 | 1    |



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MSVOA\_D  
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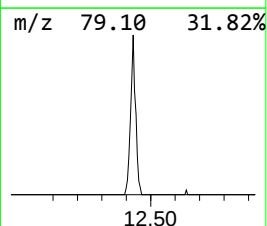
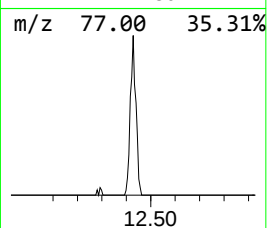
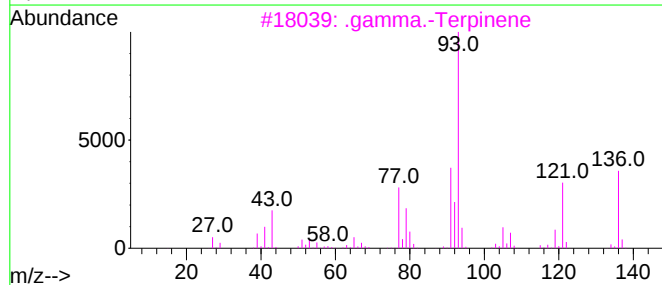
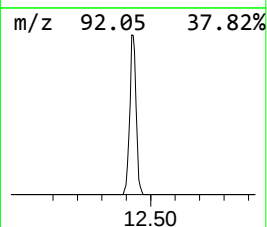
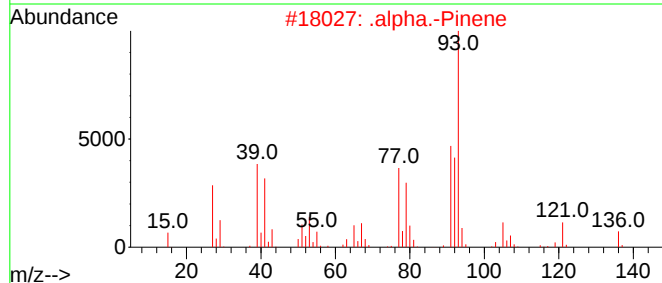
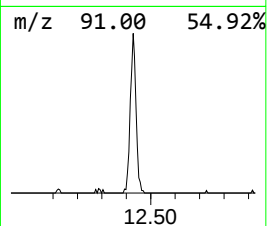
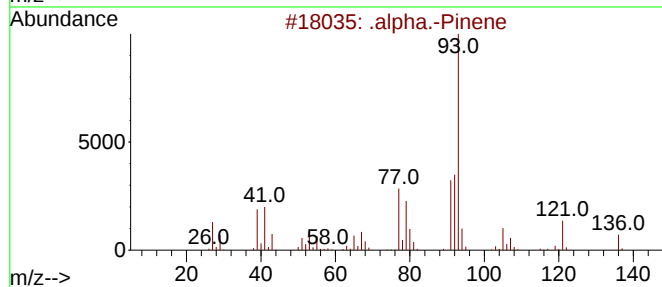
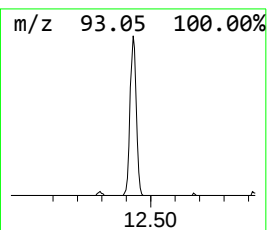
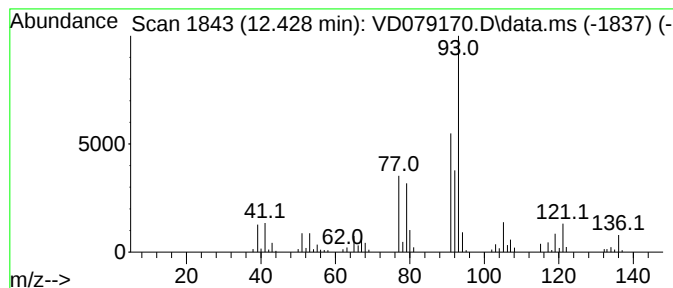
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 4 .alpha.-Pinene Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 12.428 | 10.99 ug/L | 138826 | Chlorobenzene-d5 | 11.581 |

| Hit# | of                                  | 5                | Tentative ID | MW          | MolForm     | CAS# | Qual |
|------|-------------------------------------|------------------|--------------|-------------|-------------|------|------|
| 1    | .                                   | alpha.-Pinene    | 136          | C10H16      | 000080-56-8 | 94   |      |
| 2    | .                                   | alpha.-Pinene    | 136          | C10H16      | 000080-56-8 | 94   |      |
| 3    | .                                   | gamma.-Terpinene | 136          | C10H16      | 000099-85-4 | 91   |      |
| 4    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136              | C10H16       | 004889-83-2 | 91          |      |      |
| 5    | .                                   | alpha.-Pinene    | 136          | C10H16      | 000080-56-8 | 91   |      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061124\  
Data File : VD079170.D  
Acq On : 11 Jun 2024 18:50  
Operator : RP/MD  
Sample : P2775-13  
Misc : 5.60G/10ml/MSVOA\_D/SOIL/A  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
A4C95

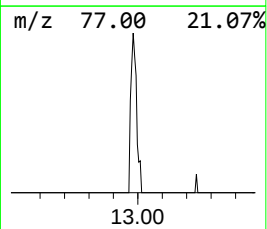
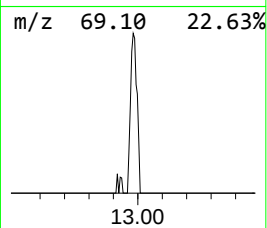
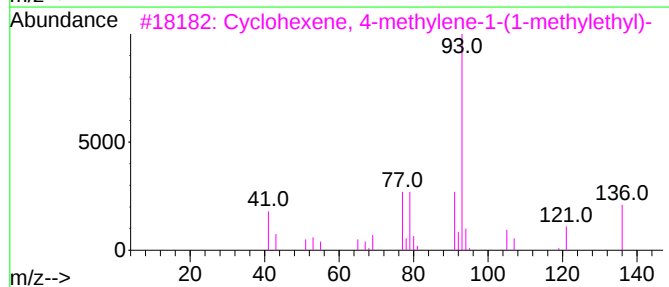
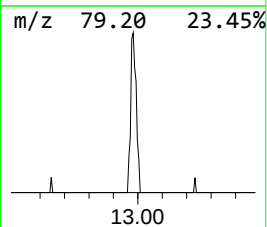
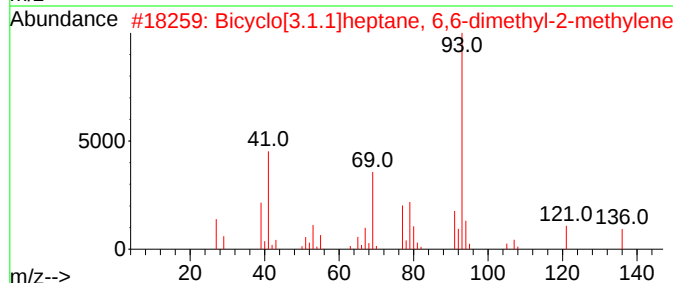
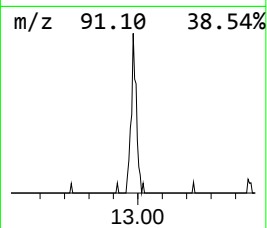
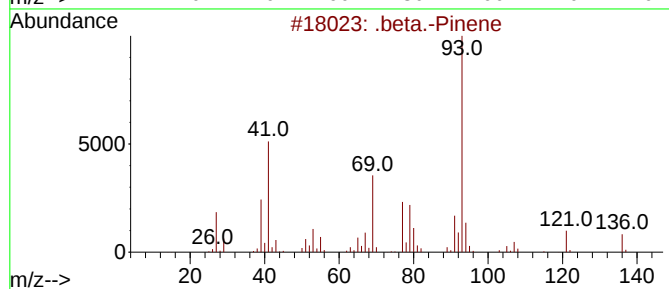
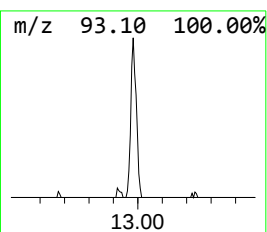
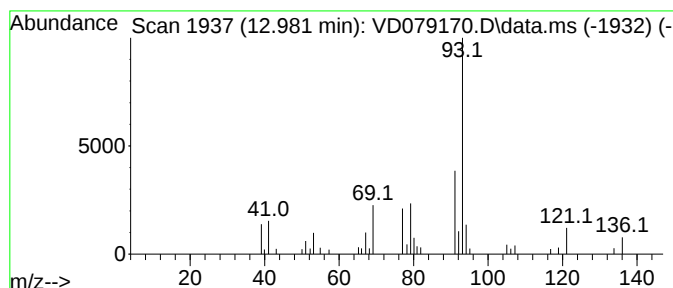
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 6 .beta.-Pinene Concentration Rank 3

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.981 | 7.08 ug/L | 44363 | 1,4-Dichlorobenzene-d4 | 13.516 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 91   |
| 2    |    |   | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16  | 018172-67-3 | 91   |
| 3    |    |   | Cyclohexene, 4-methylene-1-(1-me... | 136 | C10H16  | 000099-84-3 | 91   |
| 4    |    |   | Bicyclo[3.1.0]hexane, 4-methylen... | 136 | C10H16  | 003387-41-5 | 91   |
| 5    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061124\  
Data File : VD079170.D  
Acq On : 11 Jun 2024 18:50  
Operator : RP/MD  
Sample : P2775-13  
Misc : 5.60G/10ml/MSVOA\_D/SOIL/A  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
A4C95

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.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 |
| 1,3-Butadiyne    | 2.958  | 1.9     | ug/L  | 23423    | 1                     | 8.775  | 315102 | 25.0 |
| .alpha.-Pinene   | 12.428 | 11.0    | ug/L  | 138826   | 2                     | 11.581 | 315817 | 25.0 |
| .beta.-Pinene    | 12.981 | 7.1     | ug/L  | 44363    | 3                     | 13.516 | 156630 | 25.0 |