

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD063023\  
 Data File : VD076659.D  
 Acq On : 30 Jun 2023 13:41  
 Operator : KP/SY  
 Sample : 03472-14  
 Misc : 5.60G/10.0ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A46S7

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\SFAMDLM061523SMA.M  
 Title : SFAM01.0

Signal : TIC: VD076659.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         | 1.628       | 4             | 7           | 11           | rBV2     | 1087           | 1357          | 0.09%           | 0.012%        |
| 2         | 1.740       | 13            | 26          | 39           | rBV      | 804573         | 1501787       | 100.00%         | 13.325%       |
| 3         | 2.140       | 92            | 94          | 95           | rBV2     | 2955           | 2407          | 0.16%           | 0.021%        |
| 4         | 2.275       | 111           | 117         | 124          | rBV2     | 146727         | 236503        | 15.75%          | 2.098%        |
| 5         | 2.799       | 199           | 206         | 218          | rBV2     | 114510         | 264333        | 17.60%          | 2.345%        |
| 6         | 3.228       | 276           | 279         | 281          | rBV2     | 1470           | 1317          | 0.09%           | 0.012%        |
| 7         | 3.322       | 293           | 295         | 296          | rVB      | 2138           | 1288          | 0.09%           | 0.011%        |
| 8         | 3.475       | 318           | 321         | 324          | rVV2     | 1154           | 1240          | 0.08%           | 0.011%        |
| 9         | 3.505       | 324           | 326         | 328          | rVV      | 1045           | 1099          | 0.07%           | 0.010%        |
| 10        | 3.599       | 341           | 342         | 346          | rBV3     | 1125           | 1342          | 0.09%           | 0.012%        |
| 11        | 3.687       | 346           | 357         | 371          | rVB3     | 29563          | 84589         | 5.63%           | 0.751%        |
| 12        | 3.917       | 384           | 396         | 412          | rBV2     | 126941         | 399390        | 26.59%          | 3.544%        |
| 13        | 4.134       | 429           | 433         | 434          | rVB2     | 1045           | 1058          | 0.07%           | 0.009%        |
| 14        | 4.234       | 449           | 450         | 453          | rBV      | 1236           | 1473          | 0.10%           | 0.013%        |
| 15        | 4.405       | 477           | 479         | 480          | rBV      | 1575           | 1128          | 0.08%           | 0.010%        |
| 16        | 4.487       | 491           | 493         | 496          | rBV2     | 714            | 975           | 0.06%           | 0.009%        |
| 17        | 4.652       | 520           | 521         | 525          | rBV      | 1356           | 1288          | 0.09%           | 0.011%        |
| 18        | 4.705       | 529           | 530         | 535          | rBV2     | 1502           | 1251          | 0.08%           | 0.011%        |
| 19        | 4.740       | 535           | 536         | 538          | rBV2     | 997            | 867           | 0.06%           | 0.008%        |
| 20        | 4.758       | 538           | 539         | 540          | rBV      | 1545           | 890           | 0.06%           | 0.008%        |
| 21        | 4.787       | 541           | 544         | 546          | rBV3     | 6634           | 8195          | 0.55%           | 0.073%        |
| 22        | 5.169       | 607           | 609         | 612          | rVB2     | 1534           | 1303          | 0.09%           | 0.012%        |
| 23        | 5.199       | 612           | 614         | 618          | rBV3     | 1417           | 1899          | 0.13%           | 0.017%        |
| 24        | 5.293       | 627           | 630         | 631          | rBV      | 1527           | 1591          | 0.11%           | 0.014%        |
| 25        | 5.458       | 656           | 658         | 662          | rVB      | 895            | 1081          | 0.07%           | 0.010%        |
| 26        | 5.834       | 715           | 722         | 725          | rBV4     | 2498           | 4965          | 0.33%           | 0.044%        |
| 27        | 5.940       | 738           | 740         | 743          | rVB2     | 1724           | 1462          | 0.10%           | 0.013%        |
| 28        | 5.987       | 746           | 748         | 753          | rVB      | 1011           | 1082          | 0.07%           | 0.010%        |
| 29        | 6.111       | 756           | 769         | 782          | rBV      | 151639         | 475581        | 31.67%          | 4.220%        |
| 30        | 6.252       | 792           | 793         | 795          | rBV2     | 1164           | 901           | 0.06%           | 0.008%        |
| 31        | 6.352       | 808           | 810         | 814          | rVV2     | 905            | 1485          | 0.10%           | 0.013%        |
| 32        | 6.399       | 816           | 818         | 820          | rVB3     | 1029           | 950           | 0.06%           | 0.008%        |
| 33        | 6.587       | 847           | 850         | 851          | rBV      | 855            | 964           | 0.06%           | 0.009%        |
| 34        | 6.634       | 856           | 858         | 861          | rVB2     | 1147           | 986           | 0.07%           | 0.009%        |
| 35        | 6.711       | 869           | 871         | 872          | rBV      | 1597           | 1022          | 0.07%           | 0.009%        |
| 36        | 6.769       | 878           | 881         | 883          | rVB2     | 1355           | 1423          | 0.09%           | 0.013%        |

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Integrator: RTE

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Max Peaks: 100

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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\_D\Method\SFAMDLM061523SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 37 | 6.846  | 892  | 894  | 896  | rBV2 | 832    | 921     | 0.06%  | 0.008% |
| 38 | 6.875  | 897  | 899  | 900  | rBV  | 2242   | 1320    | 0.09%  | 0.012% |
| 39 | 6.987  | 909  | 918  | 926  | rBV2 | 40950  | 116750  | 7.77%  | 1.036% |
| 40 | 7.181  | 950  | 951  | 954  | rVB  | 1107   | 869     | 0.06%  | 0.008% |
| 41 | 7.263  | 960  | 965  | 968  | rBV2 | 759    | 1334    | 0.09%  | 0.012% |
| 42 | 7.340  | 977  | 978  | 982  | rVB2 | 1776   | 1293    | 0.09%  | 0.011% |
| 43 | 7.463  | 995  | 999  | 1001 | rBV3 | 1328   | 1515    | 0.10%  | 0.013% |
| 44 | 7.563  | 1007 | 1016 | 1030 | rVB  | 195185 | 524276  | 34.91% | 4.652% |
| 45 | 7.793  | 1046 | 1055 | 1064 | rBV  | 59284  | 151611  | 10.10% | 1.345% |
| 46 | 7.946  | 1078 | 1081 | 1082 | rBV2 | 1253   | 1249    | 0.08%  | 0.011% |
| 47 | 7.969  | 1082 | 1085 | 1086 | rVV2 | 1684   | 1553    | 0.10%  | 0.014% |
| 48 | 8.099  | 1105 | 1107 | 1111 | rVB2 | 1772   | 2237    | 0.15%  | 0.020% |
| 49 | 8.140  | 1111 | 1114 | 1115 | rBV2 | 1533   | 1127    | 0.08%  | 0.010% |
| 50 | 8.205  | 1115 | 1125 | 1141 | rBV2 | 367526 | 1124527 | 74.88% | 9.978% |
| 51 | 8.369  | 1151 | 1153 | 1154 | rVB  | 2379   | 1192    | 0.08%  | 0.011% |
| 52 | 8.487  | 1171 | 1173 | 1175 | rBV2 | 1335   | 1434    | 0.10%  | 0.013% |
| 53 | 8.610  | 1192 | 1194 | 1196 | rBV2 | 1310   | 1208    | 0.08%  | 0.011% |
| 54 | 8.775  | 1212 | 1222 | 1232 | rBV  | 449360 | 911222  | 60.68% | 8.085% |
| 55 | 9.140  | 1281 | 1284 | 1286 | rVB2 | 918    | 990     | 0.07%  | 0.009% |
| 56 | 9.210  | 1286 | 1296 | 1303 | rBV  | 269819 | 572693  | 38.13% | 5.081% |
| 57 | 9.334  | 1315 | 1317 | 1319 | rBV  | 1119   | 1007    | 0.07%  | 0.009% |
| 58 | 9.352  | 1319 | 1320 | 1324 | rBV2 | 1312   | 1189    | 0.08%  | 0.011% |
| 59 | 9.422  | 1329 | 1332 | 1333 | rVB2 | 1917   | 1159    | 0.08%  | 0.010% |
| 60 | 9.469  | 1338 | 1340 | 1343 | rBV2 | 1044   | 1293    | 0.09%  | 0.011% |
| 61 | 9.510  | 1345 | 1347 | 1348 | rBV  | 1199   | 911     | 0.06%  | 0.008% |
| 62 | 9.575  | 1356 | 1358 | 1359 | rVV  | 1222   | 901     | 0.06%  | 0.008% |
| 63 | 9.604  | 1361 | 1363 | 1368 | rVB3 | 4026   | 4736    | 0.32%  | 0.042% |
| 64 | 9.675  | 1373 | 1375 | 1377 | rVB2 | 1527   | 1193    | 0.08%  | 0.011% |
| 65 | 9.757  | 1388 | 1389 | 1392 | rBV  | 875    | 1012    | 0.07%  | 0.009% |
| 66 | 9.787  | 1392 | 1394 | 1397 | rVB  | 1123   | 1177    | 0.08%  | 0.010% |
| 67 | 9.840  | 1401 | 1403 | 1406 | rBV3 | 1083   | 942     | 0.06%  | 0.008% |
| 68 | 9.887  | 1409 | 1411 | 1414 | rBV2 | 1550   | 1449    | 0.10%  | 0.013% |
| 69 | 9.975  | 1419 | 1426 | 1434 | rBV  | 147675 | 267875  | 17.84% | 2.377% |
| 70 | 10.134 | 1452 | 1453 | 1456 | rBV2 | 1341   | 1156    | 0.08%  | 0.010% |
| 71 | 10.269 | 1468 | 1476 | 1484 | rBV  | 490158 | 866299  | 57.68% | 7.687% |
| 72 | 10.522 | 1512 | 1519 | 1529 | rVB  | 92027  | 163225  | 10.87% | 1.448% |
| 73 | 10.663 | 1538 | 1543 | 1548 | rBV3 | 4521   | 8803    | 0.59%  | 0.078% |
| 74 | 10.804 | 1565 | 1567 | 1572 | rVB4 | 4487   | 5737    | 0.38%  | 0.051% |
| 75 | 10.875 | 1572 | 1579 | 1590 | rBV  | 158924 | 276263  | 18.40% | 2.451% |
| 76 | 11.028 | 1603 | 1605 | 1607 | rBV3 | 1519   | 1025    | 0.07%  | 0.009% |

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Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A46S7

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\SFAMDLM061523SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 11.116 | 1619 | 1620 | 1622 | rBV  | 1685   | 1238   | 0.08%  | 0.011% |
| 78  | 11.169 | 1627 | 1629 | 1630 | rBV  | 2286   | 1952   | 0.13%  | 0.017% |
| 79  | 11.346 | 1657 | 1659 | 1660 | rBV2 | 1620   | 945    | 0.06%  | 0.008% |
| 80  | 11.463 | 1677 | 1679 | 1680 | rBV2 | 1375   | 1070   | 0.07%  | 0.009% |
|     |        |      |      |      |      |        |        |        |        |
| 81  | 11.581 | 1691 | 1699 | 1708 | rBV  | 575028 | 982801 | 65.44% | 8.720% |
| 82  | 11.681 | 1711 | 1716 | 1723 | rVB  | 40201  | 71182  | 4.74%  | 0.632% |
| 83  | 11.799 | 1731 | 1736 | 1744 | rVB2 | 12169  | 21990  | 1.46%  | 0.195% |
| 84  | 11.940 | 1756 | 1760 | 1764 | rVB3 | 1581   | 2678   | 0.18%  | 0.024% |
| 85  | 11.981 | 1764 | 1767 | 1770 | rVB3 | 1974   | 2206   | 0.15%  | 0.020% |
|     |        |      |      |      |      |        |        |        |        |
| 86  | 12.075 | 1780 | 1783 | 1784 | rBV2 | 1900   | 1658   | 0.11%  | 0.015% |
| 87  | 12.116 | 1785 | 1790 | 1798 | rVB  | 49878  | 87003  | 5.79%  | 0.772% |
| 88  | 12.298 | 1819 | 1821 | 1823 | rBV2 | 2520   | 2918   | 0.19%  | 0.026% |
| 89  | 12.422 | 1837 | 1842 | 1848 | rBV2 | 11635  | 19214  | 1.28%  | 0.170% |
| 90  | 12.581 | 1863 | 1869 | 1873 | rVB3 | 10564  | 18390  | 1.22%  | 0.163% |
|     |        |      |      |      |      |        |        |        |        |
| 91  | 12.651 | 1874 | 1881 | 1890 | rVB  | 224314 | 373166 | 24.85% | 3.311% |
| 92  | 13.063 | 1947 | 1951 | 1958 | rVB4 | 10767  | 18042  | 1.20%  | 0.160% |
| 93  | 13.216 | 1973 | 1977 | 1981 | rVB3 | 11360  | 16601  | 1.11%  | 0.147% |
| 94  | 13.345 | 1993 | 1999 | 2003 | rBV6 | 6955   | 15835  | 1.05%  | 0.141% |
| 95  | 13.516 | 2022 | 2028 | 2037 | rVB  | 480455 | 786936 | 52.40% | 6.982% |
|     |        |      |      |      |      |        |        |        |        |
| 96  | 13.681 | 2051 | 2056 | 2062 | rBV2 | 39155  | 60472  | 4.03%  | 0.537% |
| 97  | 13.763 | 2067 | 2070 | 2073 | rVV3 | 18891  | 26333  | 1.75%  | 0.234% |
| 98  | 13.816 | 2073 | 2079 | 2092 | rVB  | 382071 | 710832 | 47.33% | 6.307% |
| 99  | 14.169 | 2136 | 2139 | 2144 | rVB6 | 5349   | 7610   | 0.51%  | 0.068% |
| 100 | 15.281 | 2326 | 2328 | 2330 | rBV2 | 2989   | 1940   | 0.13%  | 0.017% |

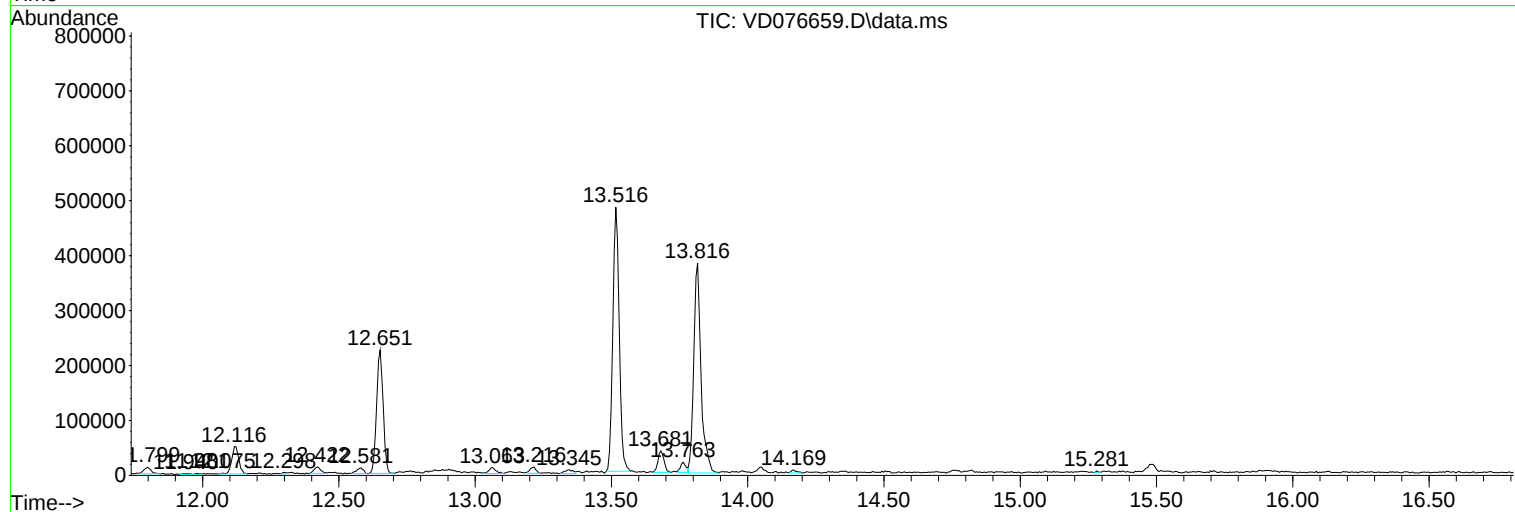
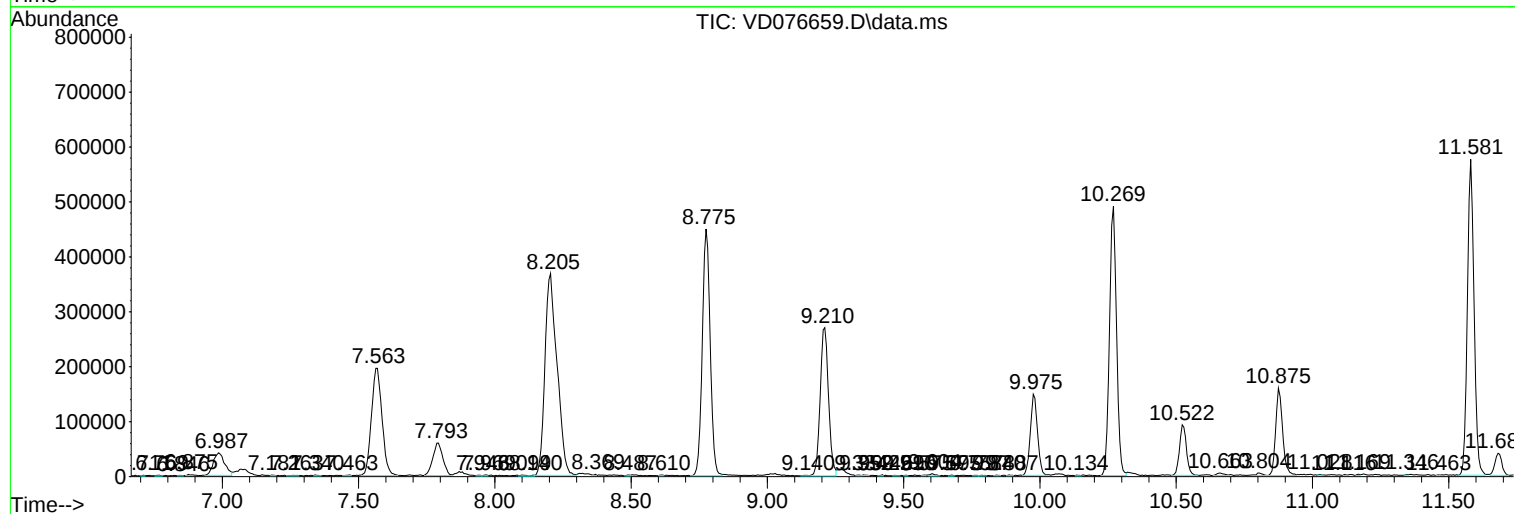
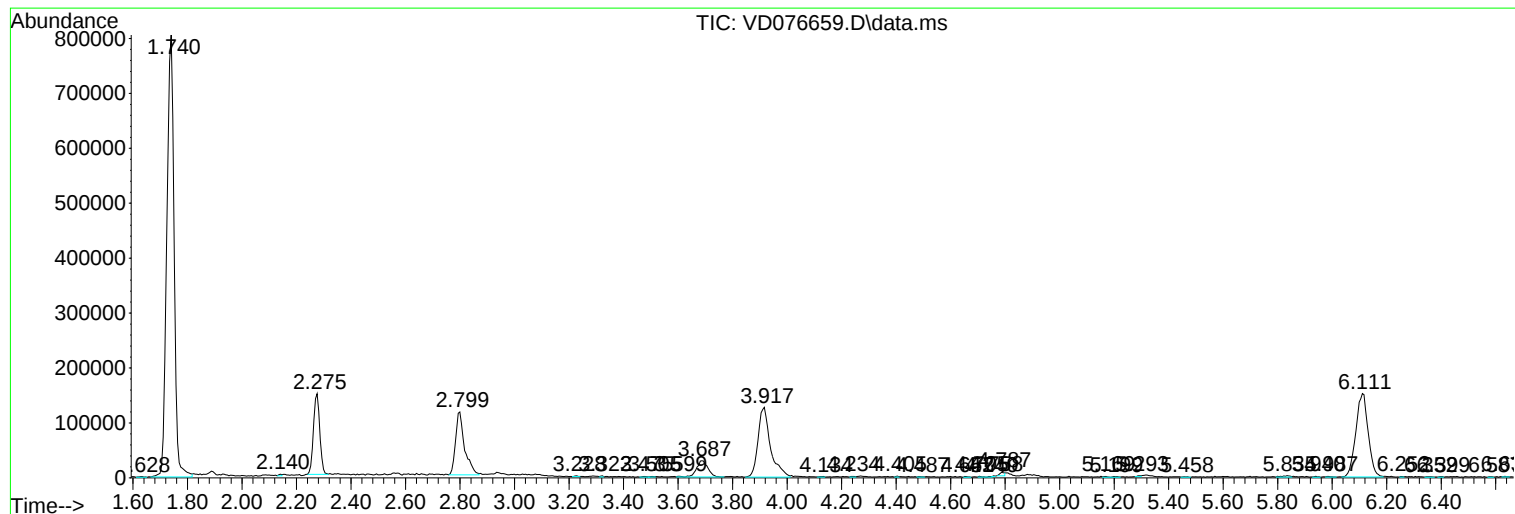
Sum of corrected areas: 11270157

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM061523SMA.M  
Quant Title : SFAM01.0

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



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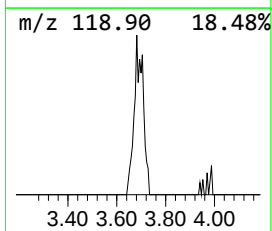
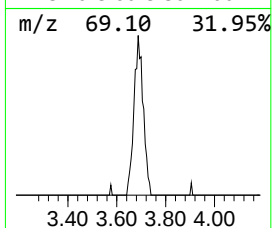
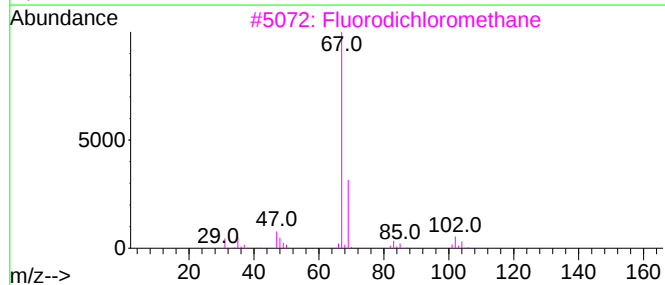
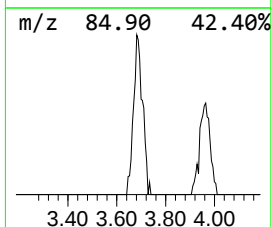
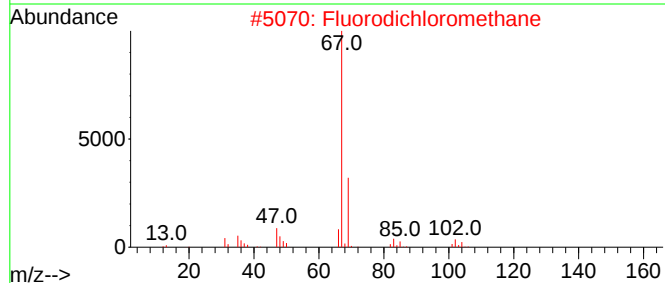
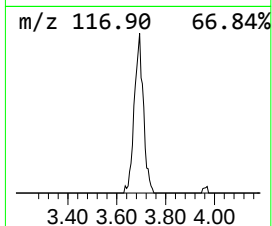
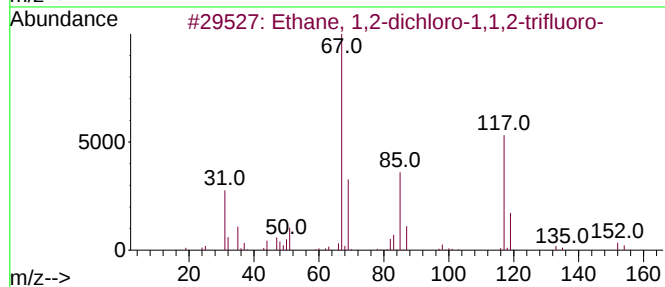
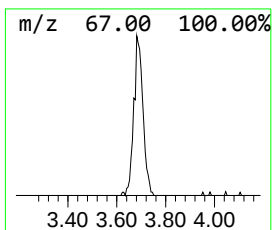
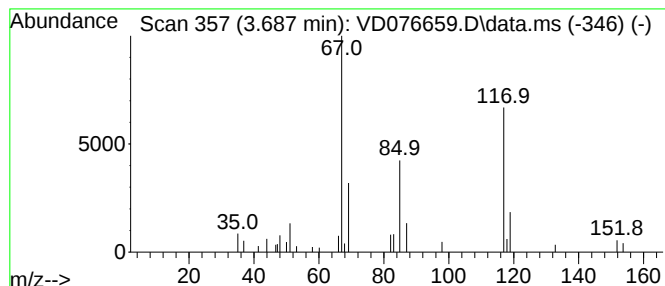
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM061523SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 2 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 3.687 | 2.32 ug/L | 84589 | 1,4-Difluorobenzene | 8.775 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Ethane, 1,2-dichloro-1,1,2-trifl... | 152 | C2HCl2F3 | 000354-23-4 | 91   |
| 2    |    |   | Fluorodichloromethane               | 102 | CHCl2F   | 000075-43-4 | 35   |
| 3    |    |   | Fluorodichloromethane               | 102 | CHCl2F   | 000075-43-4 | 17   |
| 4    |    |   | Cyclopropane, 1,2-dimethyl-3-met... | 82  | C6H10    | 062338-02-7 | 12   |
| 5    |    |   | Benzonitrile, 3-methyl-             | 117 | C8H7N    | 000620-22-4 | 9    |



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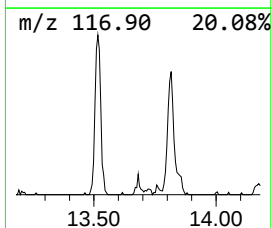
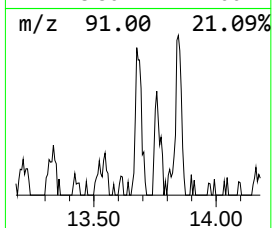
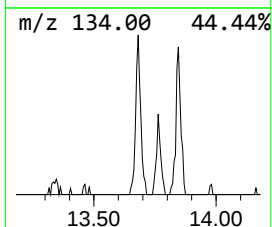
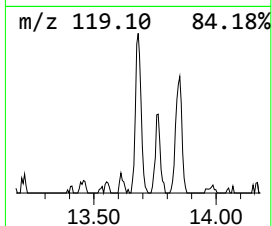
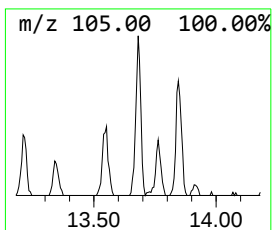
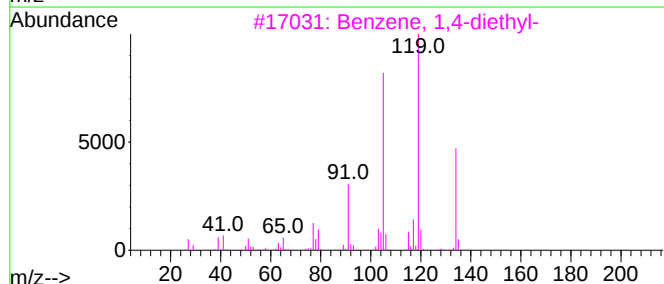
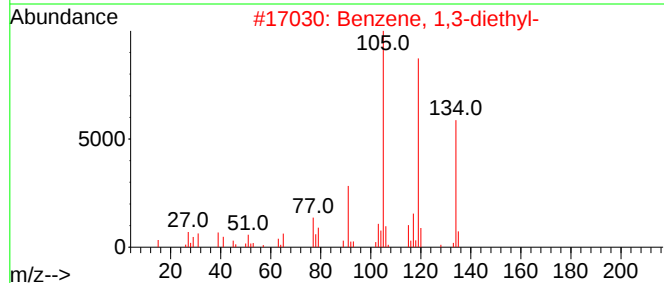
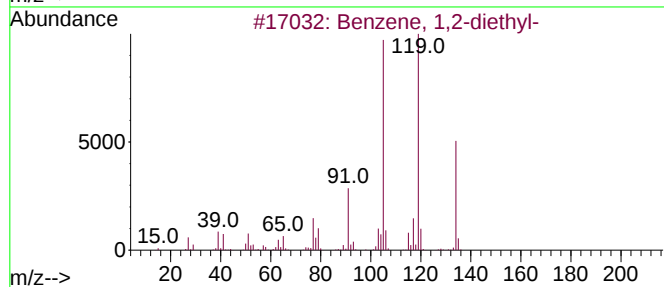
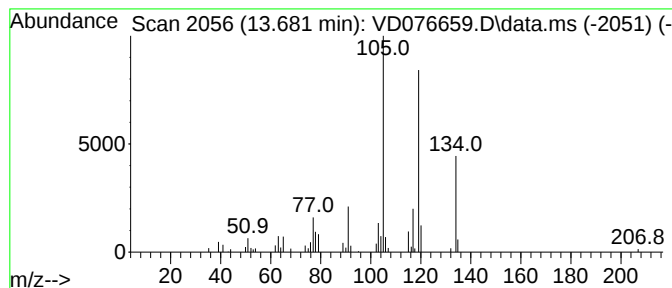
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM061523SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 4

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.681 | 1.92 ug/L | 60472 | 1,4-Dichlorobenzene-d4 | 13.516 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2-diethyl-          | 134 | C10H14  | 000135-01-3 | 93   |
| 2    |    |   | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 90   |
| 3    |    |   | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 90   |
| 4    |    |   | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 87   |
| 5    |    |   | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 83   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD063023\  
Data File : VD076659.D  
Acq On : 30 Jun 2023 13:41  
Operator : KP/SY  
Sample : 03472-14  
Misc : 5.60G/10.0ml/MSVOA\_D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
A46S7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM061523SMA.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 |
| Ethane, 1,2-dic... | 3.687  | 2.3     | ug/L  | 84589    | 1                     | 8.775  | 911222 | 25.0 |
| Benzene, 1,2-di... | 13.681 | 1.9     | ug/L  | 60472    | 3                     | 13.516 | 786936 | 25.0 |