

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
 Data File : VW026469.D  
 Acq On : 30 Jun 2023 13:53  
 Operator : SY/MD  
 Sample : 03452-15RE  
 Misc : 4.77g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46P7RE

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: VW026469.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         | 2.143       | 40            | 42          | 45           | rBV2     | 2766           | 3519          | 0.11%           | 0.013%        |
| 2         | 2.174       | 45            | 47          | 51           | rVB3     | 3330           | 3653          | 0.12%           | 0.013%        |
| 3         | 2.363       | 71            | 78          | 98           | rVB      | 124125         | 348282        | 11.12%          | 1.264%        |
| 4         | 2.631       | 117           | 122         | 123          | rBV5     | 4580           | 7233          | 0.23%           | 0.026%        |
| 5         | 2.747       | 139           | 141         | 146          | rVB6     | 3000           | 3359          | 0.11%           | 0.012%        |
| 6         | 2.893       | 157           | 165         | 178          | rBV      | 117635         | 330192        | 10.54%          | 1.198%        |
| 7         | 3.387       | 239           | 246         | 252          | rBV2     | 5434           | 12429         | 0.40%           | 0.045%        |
| 8         | 3.527       | 263           | 269         | 273          | rBV8     | 888            | 1945          | 0.06%           | 0.007%        |
| 9         | 3.594       | 278           | 280         | 284          | rVB5     | 1479           | 1747          | 0.06%           | 0.006%        |
| 10        | 3.686       | 289           | 295         | 296          | rBV6     | 1945           | 2772          | 0.09%           | 0.010%        |
| 11        | 4.021       | 337           | 350         | 360          | rBV      | 299895         | 979026        | 31.25%          | 3.552%        |
| 12        | 4.118       | 360           | 366         | 378          | rVB      | 118640         | 327175        | 10.44%          | 1.187%        |
| 13        | 4.374       | 401           | 408         | 409          | rBV6     | 3781           | 6784          | 0.22%           | 0.025%        |
| 14        | 4.698       | 458           | 461         | 468          | rBV5     | 1368           | 2764          | 0.09%           | 0.010%        |
| 15        | 4.917       | 488           | 497         | 511          | rBV3     | 19862          | 81492         | 2.60%           | 0.296%        |
| 16        | 5.941       | 655           | 665         | 675          | rVV6     | 8232           | 24347         | 0.78%           | 0.088%        |
| 17        | 6.972       | 831           | 834         | 836          | rBV2     | 1099           | 1632          | 0.05%           | 0.006%        |
| 18        | 7.075       | 842           | 851         | 860          | rBV      | 108121         | 324740        | 10.36%          | 1.178%        |
| 19        | 7.173       | 860           | 867         | 885          | rVV2     | 57324          | 189605        | 6.05%           | 0.688%        |
| 20        | 7.648       | 933           | 945         | 958          | rBV      | 496910         | 1227454       | 39.18%          | 4.454%        |
| 21        | 7.764       | 961           | 964         | 969          | rVB7     | 1344           | 2103          | 0.07%           | 0.008%        |
| 22        | 7.953       | 991           | 995         | 996          | rBV4     | 1672           | 1767          | 0.06%           | 0.006%        |
| 23        | 8.148       | 1025          | 1027        | 1032         | rBV5     | 1069           | 1585          | 0.05%           | 0.006%        |
| 24        | 8.276       | 1036          | 1048        | 1063         | rBV2     | 1077032        | 3133131       | 100.00%         | 11.368%       |
| 25        | 8.404       | 1067          | 1069        | 1072         | rVV4     | 1544           | 2009          | 0.06%           | 0.007%        |
| 26        | 8.563       | 1090          | 1095        | 1096         | rBV4     | 1685           | 2381          | 0.08%           | 0.009%        |
| 27        | 8.703       | 1110          | 1118        | 1124         | rBV5     | 4482           | 11638         | 0.37%           | 0.042%        |
| 28        | 8.843       | 1130          | 1141        | 1158         | rBV      | 1375050        | 2748074       | 87.71%          | 9.971%        |
| 29        | 9.057       | 1171          | 1176        | 1177         | rVV5     | 4641           | 5126          | 0.16%           | 0.019%        |
| 30        | 9.081       | 1177          | 1180        | 1187         | rVB7     | 6301           | 13123         | 0.42%           | 0.048%        |
| 31        | 9.276       | 1202          | 1212        | 1228         | rBV      | 704616         | 1488080       | 47.49%          | 5.399%        |
| 32        | 9.654       | 1271          | 1274        | 1276         | rBV4     | 2794           | 3437          | 0.11%           | 0.012%        |
| 33        | 9.758       | 1284          | 1291        | 1297         | rVB10    | 4017           | 9824          | 0.31%           | 0.036%        |
| 34        | 9.886       | 1307          | 1312        | 1318         | rVB10    | 2554           | 5968          | 0.19%           | 0.022%        |
| 35        | 9.959       | 1318          | 1324        | 1327         | rBV8     | 1925           | 3706          | 0.12%           | 0.013%        |
| 36        | 10.032      | 1329          | 1336        | 1346         | rBV      | 354108         | 646512        | 20.63%          | 2.346%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
 Data File : VW026469.D  
 Acq On : 30 Jun 2023 13:53  
 Operator : SY/MD  
 Sample : 03452-15RE  
 Misc : 4.77g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46P7RE

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

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 10.129 | 1349 | 1352 | 1357 | rVB7 | 4153    | 7151    | 0.23%  | 0.026% |
| 38 | 10.209 | 1360 | 1365 | 1368 | rBV5 | 5351    | 9959    | 0.32%  | 0.036% |
| 39 | 10.318 | 1376 | 1383 | 1392 | rBV  | 1276188 | 2293905 | 73.21% | 8.323% |
| 40 | 10.379 | 1392 | 1393 | 1399 | rVB4 | 6425    | 9806    | 0.31%  | 0.036% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 41 | 10.501 | 1408 | 1413 | 1419 | rVB9 | 4142   | 7468   | 0.24%  | 0.027% |
| 42 | 10.575 | 1419 | 1425 | 1436 | rBV  | 210684 | 374821 | 11.96% | 1.360% |
| 43 | 10.696 | 1441 | 1445 | 1451 | rVB2 | 9423   | 17169  | 0.55%  | 0.062% |
| 44 | 10.770 | 1455 | 1457 | 1461 | rVB5 | 3222   | 3830   | 0.12%  | 0.014% |
| 45 | 10.831 | 1462 | 1467 | 1468 | rBV4 | 5830   | 6888   | 0.22%  | 0.025% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 46 | 10.922 | 1475 | 1482 | 1496 | rBV  | 360745 | 651066 | 20.78% | 2.362% |
| 47 | 11.032 | 1496 | 1500 | 1504 | rVV3 | 3602   | 7467   | 0.24%  | 0.027% |
| 48 | 11.184 | 1521 | 1525 | 1527 | rBV5 | 3666   | 5978   | 0.19%  | 0.022% |
| 49 | 11.227 | 1527 | 1532 | 1536 | rVV2 | 11645  | 19069  | 0.61%  | 0.069% |
| 50 | 11.276 | 1538 | 1540 | 1543 | rBV4 | 3018   | 3621   | 0.12%  | 0.013% |

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 51 | 11.428 | 1563 | 1565 | 1573 | rVB6 | 7544    | 13960   | 0.45%  | 0.051% |
| 52 | 11.507 | 1576 | 1578 | 1580 | rVB2 | 2485    | 1999    | 0.06%  | 0.007% |
| 53 | 11.629 | 1590 | 1598 | 1606 | rBV  | 1416672 | 2366956 | 75.55% | 8.588% |
| 54 | 11.708 | 1606 | 1611 | 1616 | rVB  | 16691   | 32113   | 1.02%  | 0.117% |
| 55 | 11.818 | 1625 | 1629 | 1632 | rBV5 | 6572    | 11913   | 0.38%  | 0.043% |

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 56 | 11.873 | 1635 | 1638 | 1642 | rVB5 | 9289  | 14841  | 0.47% | 0.054% |
| 57 | 11.971 | 1650 | 1654 | 1656 | rBV5 | 5074  | 8299   | 0.26% | 0.030% |
| 58 | 12.068 | 1665 | 1670 | 1673 | rBV3 | 7488  | 13459  | 0.43% | 0.049% |
| 59 | 12.135 | 1673 | 1681 | 1686 | rBV5 | 28958 | 65526  | 2.09% | 0.238% |
| 60 | 12.251 | 1695 | 1700 | 1704 | rVB  | 59241 | 101250 | 3.23% | 0.367% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 61 | 12.361 | 1704 | 1718 | 1724 | rBV2 | 66001  | 199942 | 6.38%  | 0.725% |
| 62 | 12.452 | 1730 | 1733 | 1735 | rBV4 | 9685   | 13156  | 0.42%  | 0.048% |
| 63 | 12.477 | 1735 | 1737 | 1738 | rBV2 | 7970   | 8035   | 0.26%  | 0.029% |
| 64 | 12.599 | 1751 | 1757 | 1765 | rVB4 | 52157  | 139777 | 4.46%  | 0.507% |
| 65 | 12.690 | 1765 | 1772 | 1778 | rBV  | 452587 | 780970 | 24.93% | 2.834% |

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 66 | 12.775 | 1782 | 1786 | 1793 | rVB5 | 66936 | 128277 | 4.09% | 0.465% |
| 67 | 12.861 | 1793 | 1800 | 1804 | rBV5 | 37961 | 99373  | 3.17% | 0.361% |
| 68 | 12.940 | 1805 | 1813 | 1826 | rBV9 | 70308 | 297603 | 9.50% | 1.080% |
| 69 | 13.031 | 1826 | 1828 | 1830 | rBV3 | 9246  | 11723  | 0.37% | 0.043% |
| 70 | 13.074 | 1831 | 1835 | 1839 | rBV2 | 54684 | 76924  | 2.46% | 0.279% |

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 71 | 13.123 | 1839 | 1843 | 1846 | rBV3 | 46209 | 81604  | 2.60% | 0.296% |
| 72 | 13.166 | 1846 | 1850 | 1852 | rBV2 | 38213 | 57620  | 1.84% | 0.209% |
| 73 | 13.257 | 1863 | 1865 | 1866 | rBV2 | 12410 | 10997  | 0.35% | 0.040% |
| 74 | 13.287 | 1866 | 1870 | 1875 | rVV2 | 85575 | 127561 | 4.07% | 0.463% |
| 75 | 13.342 | 1875 | 1879 | 1882 | rBV2 | 69612 | 101680 | 3.25% | 0.369% |

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 76 | 13.409 | 1886 | 1890 | 1892 | rBV2 | 53443 | 81101 | 2.59% | 0.294% |
|----|--------|------|------|------|------|-------|-------|-------|--------|

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
 Data File : VW026469.D  
 Acq On : 30 Jun 2023 13:53  
 Operator : SY/MD  
 Sample : 03452-15RE  
 Misc : 4.77g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46P7RE

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  | 13.476 | 1899 | 1901 | 1908 | rVB4 | 43909  | 96914   | 3.09%  | 0.352% |
| 78  | 13.556 | 1908 | 1914 | 1919 | rBV  | 729184 | 1145059 | 36.55% | 4.155% |
| 79  | 13.690 | 1931 | 1936 | 1941 | rBV4 | 91507  | 170346  | 5.44%  | 0.618% |
| 80  | 13.848 | 1956 | 1962 | 1970 | rBV2 | 500110 | 1171200 | 37.38% | 4.250% |
| 81  | 13.921 | 1971 | 1974 | 1979 | rVB2 | 66127  | 105437  | 3.37%  | 0.383% |
| 82  | 13.976 | 1979 | 1983 | 1986 | rBV4 | 84813  | 125935  | 4.02%  | 0.457% |
| 83  | 14.062 | 1994 | 1997 | 2003 | rVB5 | 66717  | 120395  | 3.84%  | 0.437% |
| 84  | 14.190 | 2014 | 2018 | 2021 | rBV2 | 73586  | 115198  | 3.68%  | 0.418% |
| 85  | 14.257 | 2025 | 2029 | 2035 | rVV4 | 134472 | 231285  | 7.38%  | 0.839% |
| 86  | 14.312 | 2035 | 2038 | 2042 | rVB3 | 53670  | 76420   | 2.44%  | 0.277% |
| 87  | 14.379 | 2043 | 2049 | 2054 | rBV3 | 244608 | 446954  | 14.27% | 1.622% |
| 88  | 14.495 | 2063 | 2068 | 2071 | rBV4 | 127272 | 266164  | 8.50%  | 0.966% |
| 89  | 14.543 | 2073 | 2076 | 2081 | rVB2 | 136754 | 209972  | 6.70%  | 0.762% |
| 90  | 14.653 | 2091 | 2094 | 2098 | rBV2 | 69472  | 78538   | 2.51%  | 0.285% |
| 91  | 14.732 | 2104 | 2107 | 2112 | rBV4 | 74231  | 121214  | 3.87%  | 0.440% |
| 92  | 14.793 | 2113 | 2117 | 2121 | rVV2 | 137180 | 254993  | 8.14%  | 0.925% |
| 93  | 14.848 | 2122 | 2126 | 2131 | rVB6 | 163551 | 307931  | 9.83%  | 1.117% |
| 94  | 15.116 | 2167 | 2170 | 2174 | rBV4 | 53525  | 75063   | 2.40%  | 0.272% |
| 95  | 15.232 | 2186 | 2189 | 2199 | rVB6 | 149830 | 389660  | 12.44% | 1.414% |
| 96  | 15.318 | 2199 | 2203 | 2210 | rVB2 | 348637 | 649913  | 20.74% | 2.358% |
| 97  | 15.391 | 2211 | 2215 | 2220 | rBV4 | 107523 | 233054  | 7.44%  | 0.846% |
| 98  | 15.561 | 2240 | 2243 | 2249 | rVB5 | 85114  | 161354  | 5.15%  | 0.585% |
| 99  | 15.726 | 2266 | 2270 | 2277 | rVB5 | 190853 | 380227  | 12.14% | 1.380% |
| 100 | 16.275 | 2356 | 2360 | 2368 | rVB2 | 190783 | 403249  | 12.87% | 1.463% |

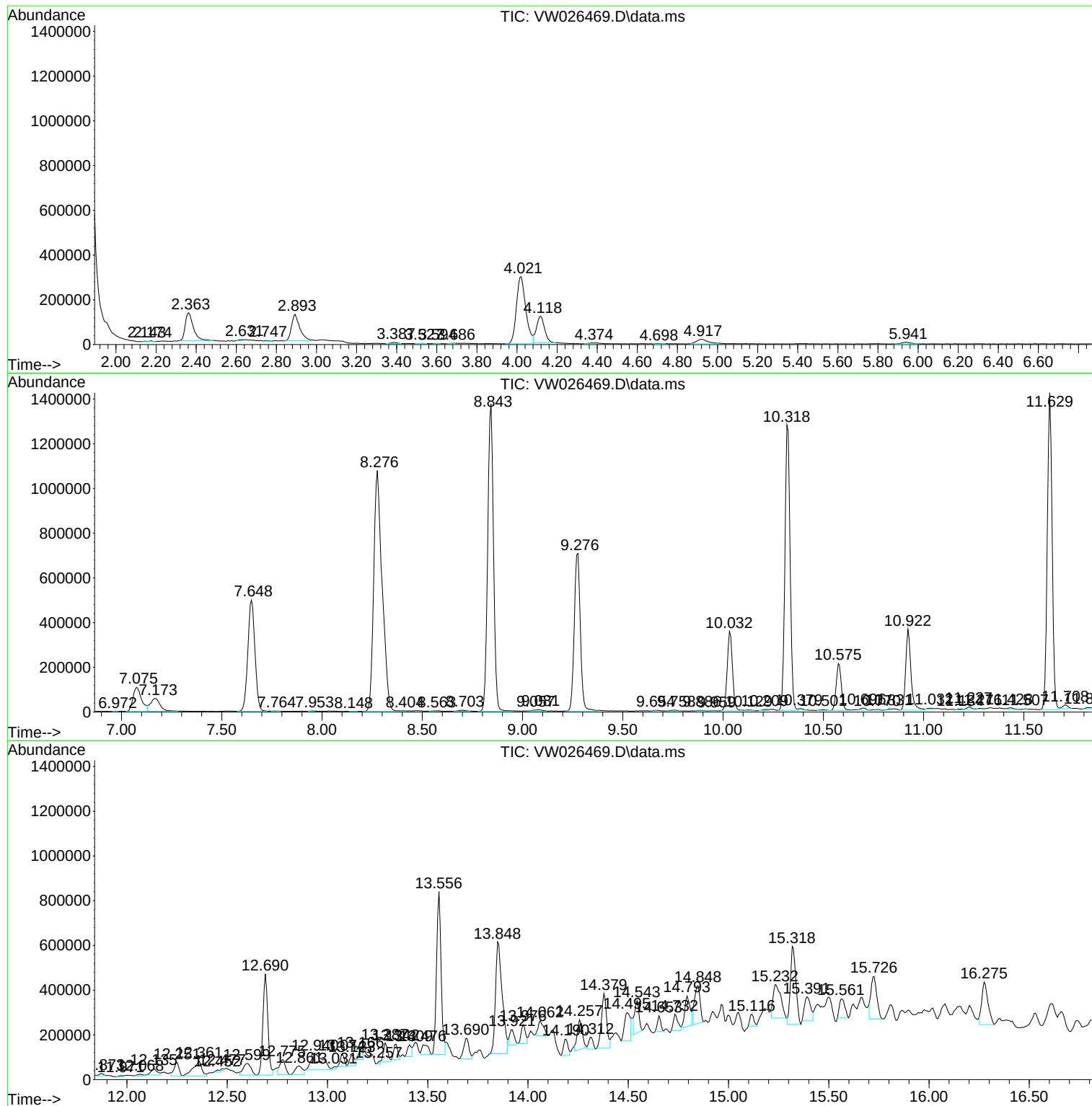
Sum of corrected areas: 27559946

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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

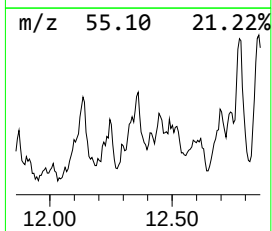
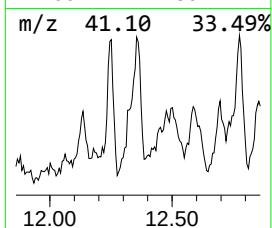
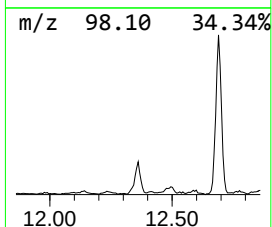
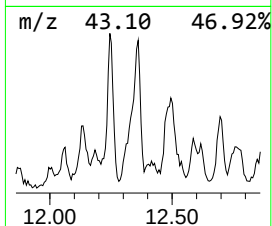
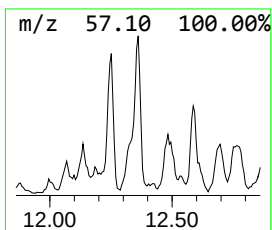
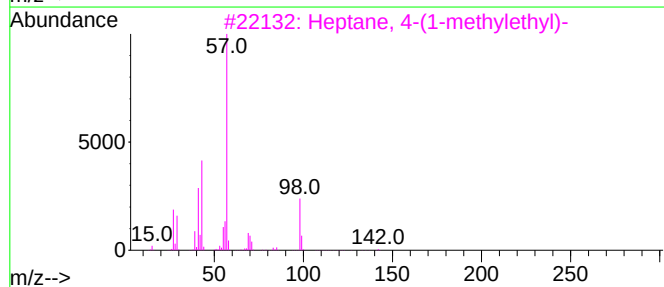
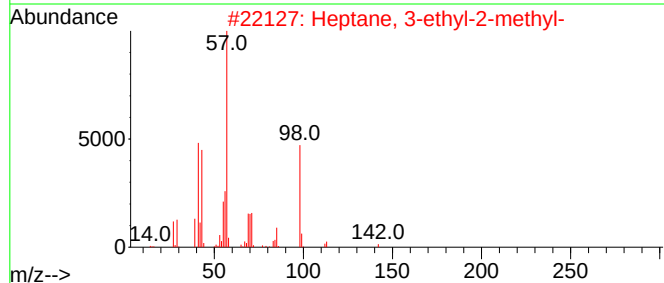
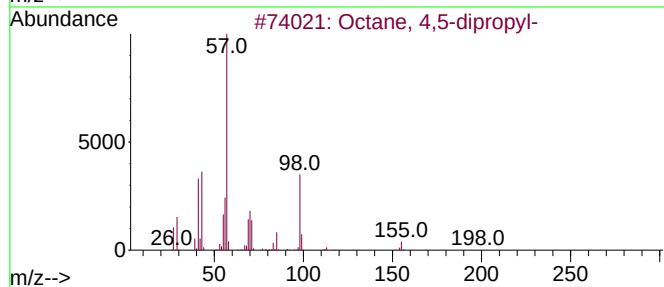
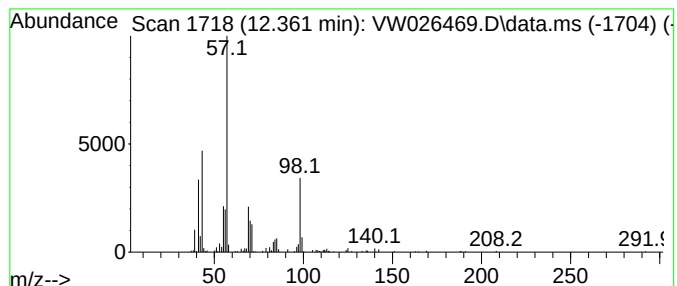
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.361 | 2.11 ug/L | 199942 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------|-----|---------|--------------|------|
| 1    |    |   | Octane, 4,5-dipropyl-       | 198 | C14H30  | 020905-05-9  | 78   |
| 2    |    |   | Heptane, 3-ethyl-2-methyl-  | 142 | C10H22  | 014676-29-0  | 68   |
| 3    |    |   | Heptane, 4-(1-methylethyl)- | 142 | C10H22  | 052896-87-4  | 64   |
| 4    |    |   | Octane, 2,3-dimethyl-       | 142 | C10H22  | 007146-60-3  | 64   |
| 5    |    |   | Dodecyl heptyl ether        | 284 | C19H40O | 1010406-39-2 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

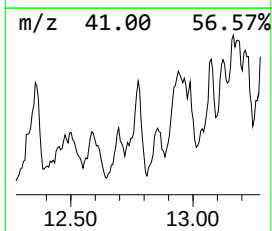
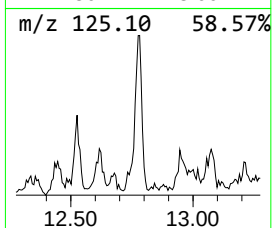
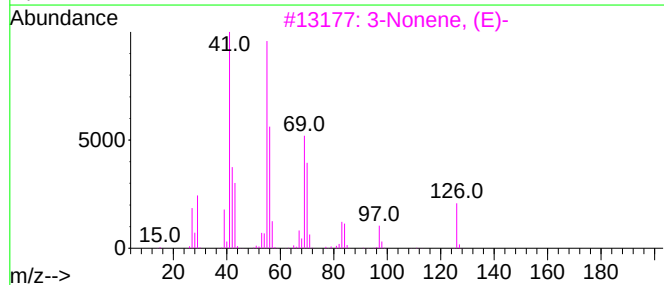
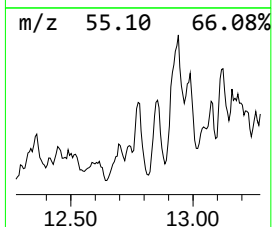
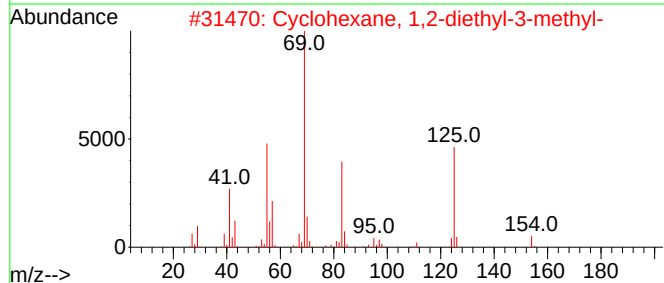
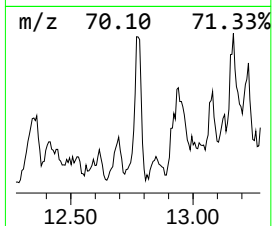
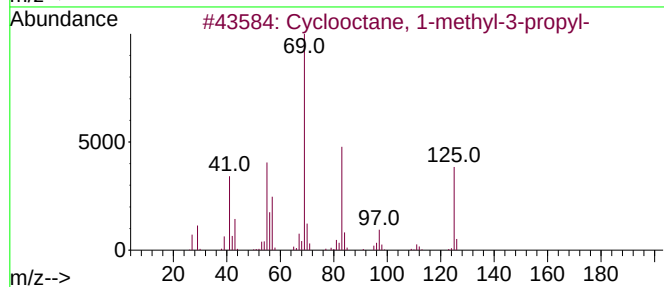
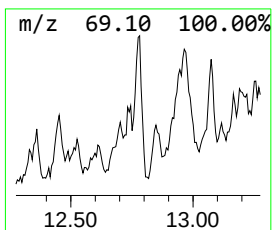
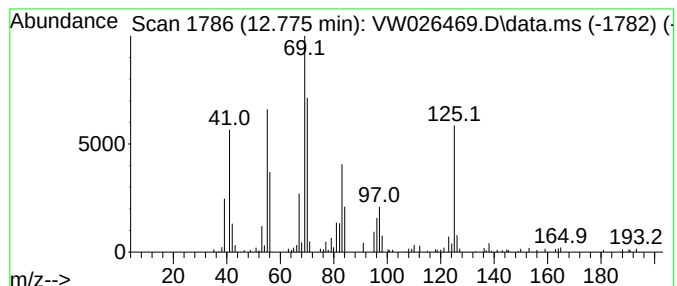
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Cyclic12.775 Concentration Rank 17

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.775 | 2.80 ug/L | 128277 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Cyclooctane, 1-methyl-3-propyl-    | 168 | C12H24   | 255885-37-1 | 50   |
| 2    |    |   | Cyclohexane, 1,2-diethyl-3-methyl- | 154 | C11H22   | 061141-80-8 | 47   |
| 3    |    |   | 3-Nonene, (E)-                     | 126 | C9H18    | 020063-92-7 | 47   |
| 4    |    |   | 1-Methyl-4-tert-butylaminocytosine | 181 | C9H15N3O | 136308-27-5 | 38   |
| 5    |    |   | 1-Dodecanol, 3,7,11-trimethyl-     | 228 | C15H32O  | 006750-34-1 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

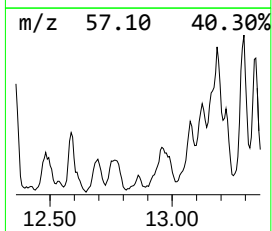
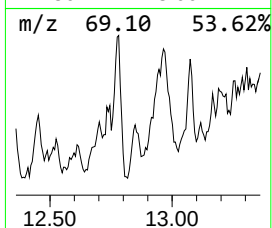
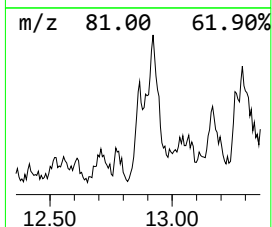
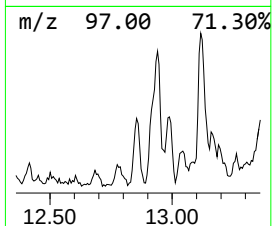
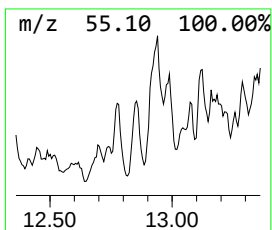
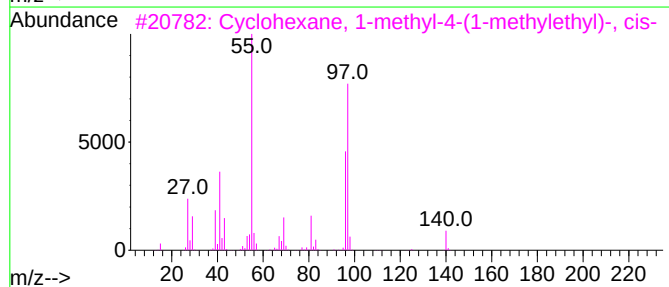
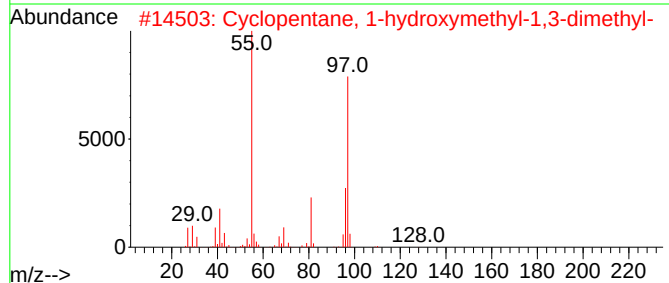
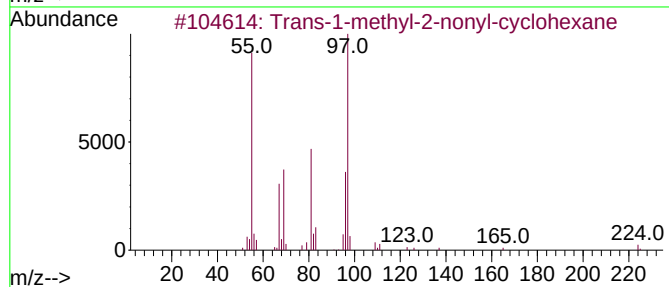
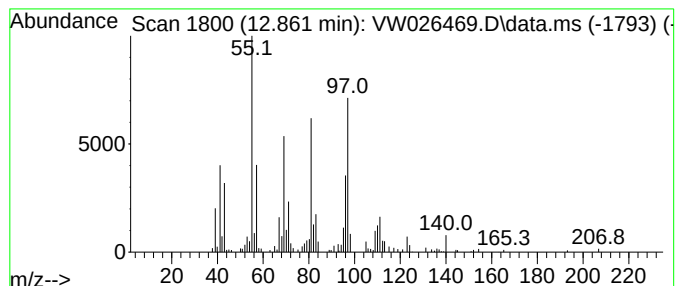
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Cyclic12.861 Concentration Rank 25

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.861 | 2.17 ug/L | 99373 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Trans-1-methyl-2-nonyl-cyclohexane  | 224 | C16H32  | 1000371-47-8 | 47   |
| 2    |    |   | Cyclopentane, 1-hydroxymethyl-1,... | 128 | C8H16O  | 1000156-73-8 | 47   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 006069-98-3  | 46   |
| 4    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6  | 46   |
| 5    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20  | 001678-82-6  | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

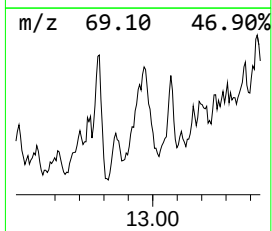
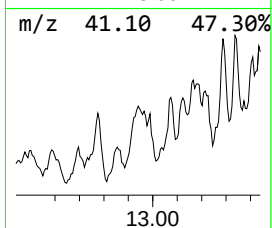
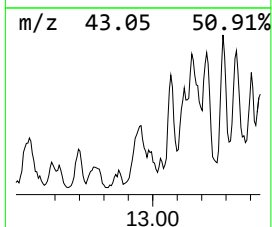
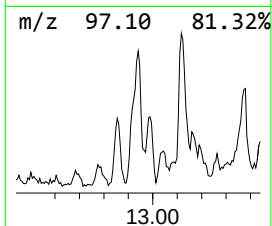
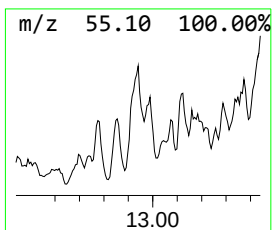
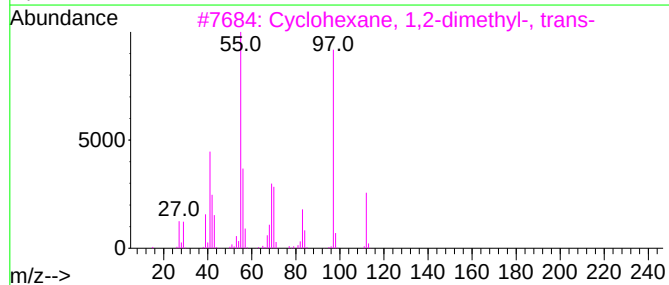
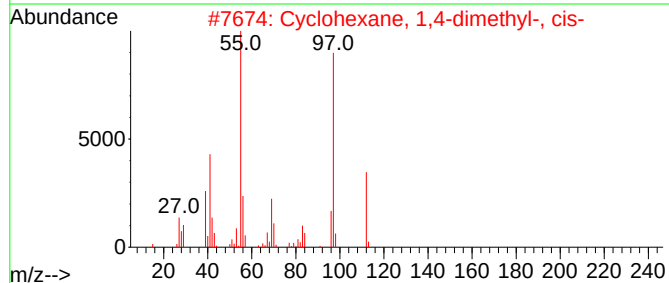
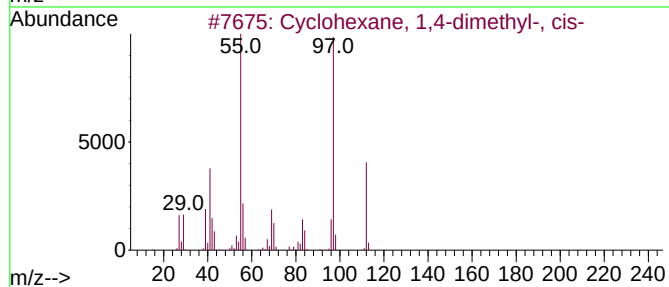
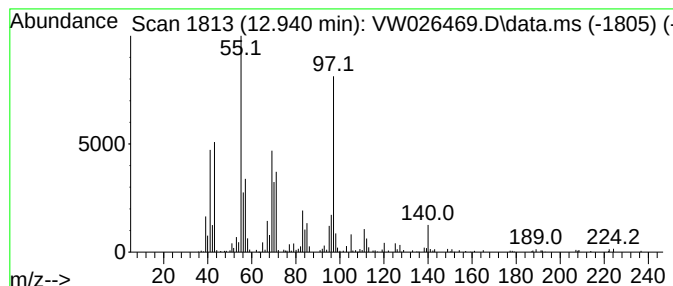
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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 6 (DEL) Alkane: Cyclic12.940 Concentration Rank 7

| R.T.      | EstConc                            | Area   | Relative to ISTD       | R.T.        |      |
|-----------|------------------------------------|--------|------------------------|-------------|------|
| 12.940    | 6.50 ug/L                          | 297603 | 1,4-Dichlorobenzene-d4 | 13.556      |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm                | CAS#        | Qual |
| 1         | Cyclohexane, 1,4-dimethyl-, cis-   | 112    | C8H16                  | 000624-29-3 | 58   |
| 2         | Cyclohexane, 1,4-dimethyl-, cis-   | 112    | C8H16                  | 000624-29-3 | 53   |
| 3         | Cyclohexane, 1,2-dimethyl-, trans- | 112    | C8H16                  | 006876-23-9 | 52   |
| 4         | Cyclohexane, 1,4-dimethyl-         | 112    | C8H16                  | 000589-90-2 | 49   |
| 5         | Cyclohexane, 1,4-dimethyl-, cis-   | 112    | C8H16                  | 000624-29-3 | 46   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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

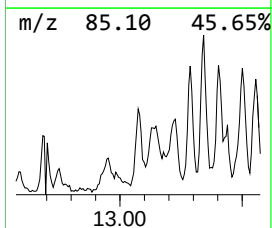
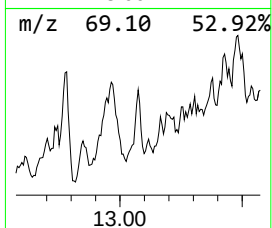
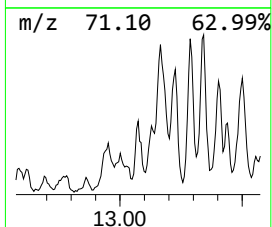
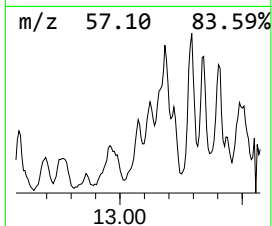
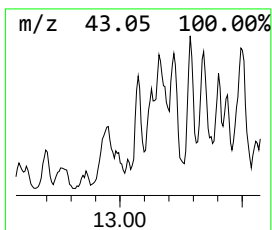
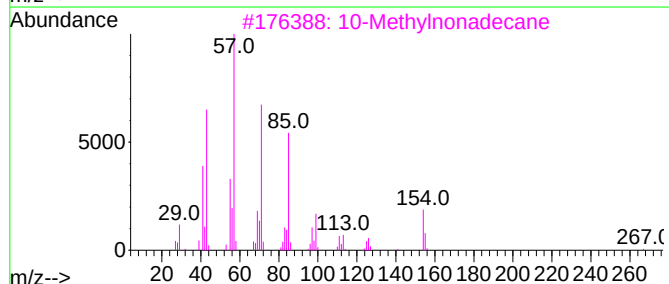
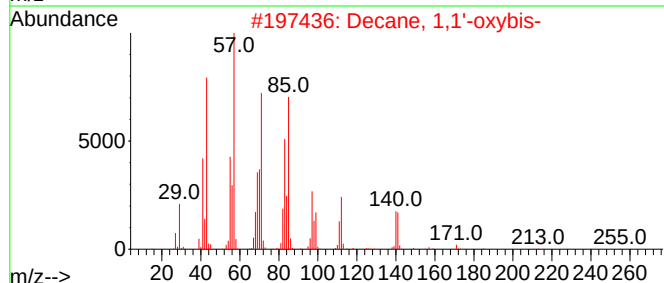
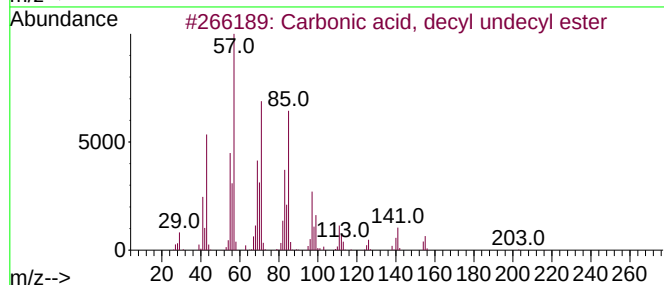
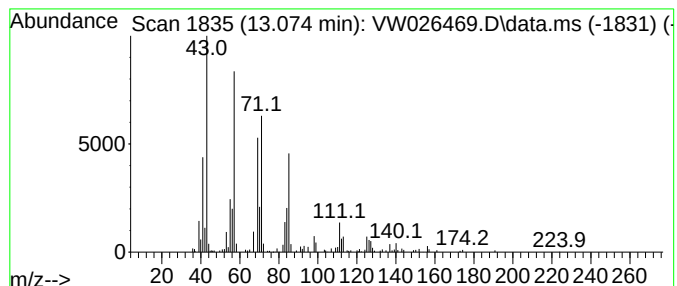
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 7 Carbonic acid, decyl undecyl... Concentration Rank 31

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.074 | 1.68 ug/L | 76924 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Carbonic acid, decyl undecyl ester | 356 | C22H44O3 | 1000383-16-0 | 90   |
| 2    |    |   | Decane, 1,1'-oxybis-               | 298 | C20H42O  | 002456-28-2  | 78   |
| 3    |    |   | 10-Methylnonadecane                | 282 | C20H42   | 056862-62-5  | 64   |
| 4    |    |   | Heptane, 2,4-dimethyl-             | 128 | C9H20    | 002213-23-2  | 59   |
| 5    |    |   | Carbonic acid, decyl vinyl ester   | 228 | C13H24O3 | 1000383-25-7 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

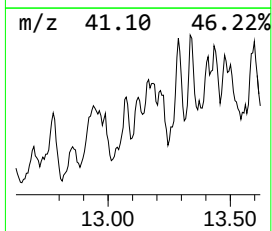
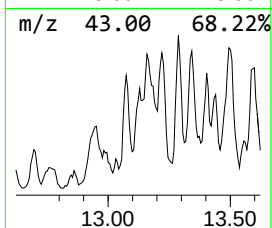
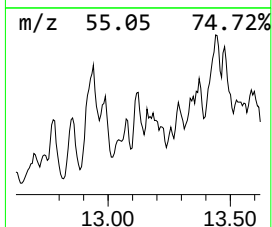
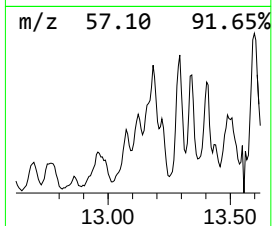
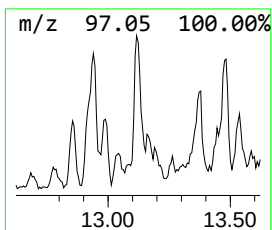
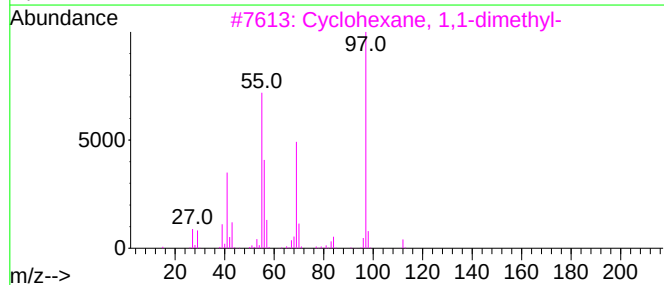
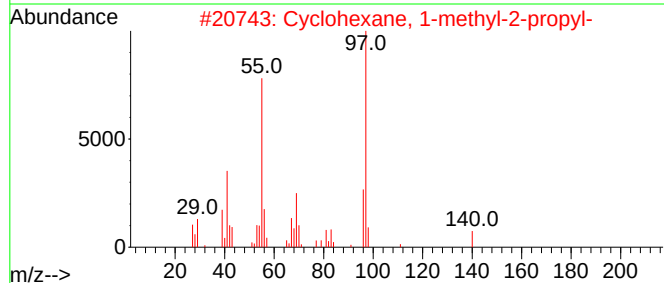
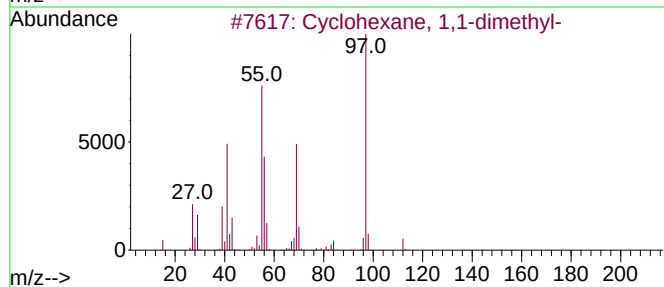
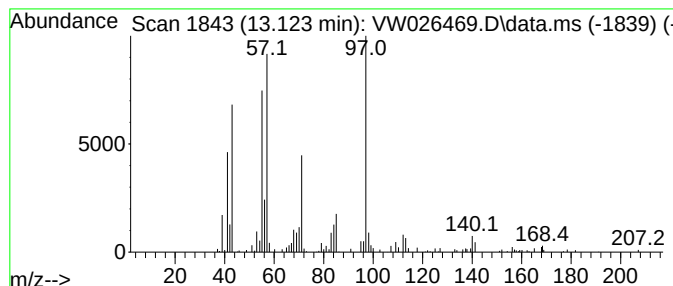
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Cyclic13.123 Concentration Rank 28

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.123 | 1.78 ug/L | 81604 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclohexane, 1,1-dimethyl-          | 112 | C8H16   | 000590-66-9  | 49   |
| 2    |    |   | Cyclohexane, 1-methyl-2-propyl-     | 140 | C10H20  | 004291-79-6  | 49   |
| 3    |    |   | Cyclohexane, 1,1-dimethyl-          | 112 | C8H16   | 000590-66-9  | 46   |
| 4    |    |   | 5-Octen-4-one, 7-methyl-            | 140 | C9H16O  | 032064-78-1  | 46   |
| 5    |    |   | 2,4-Dimethyl-1,5-diazabicyclo[3.... | 112 | C6H12N2 | 1000283-20-9 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

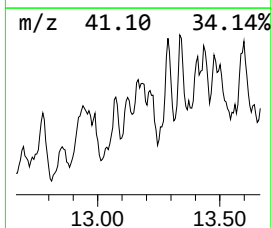
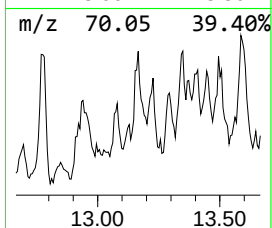
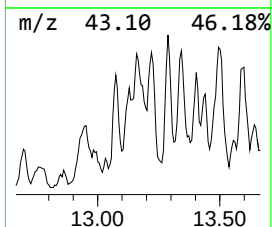
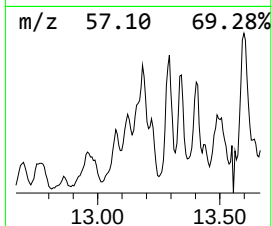
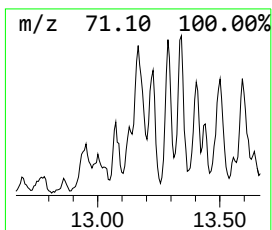
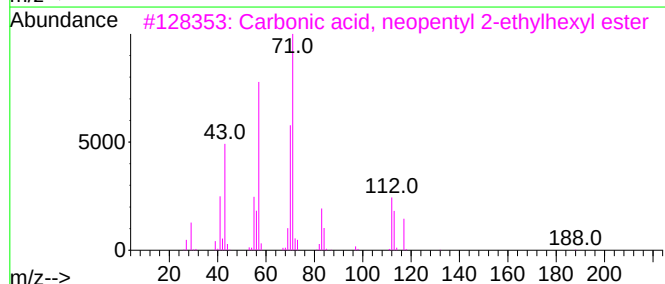
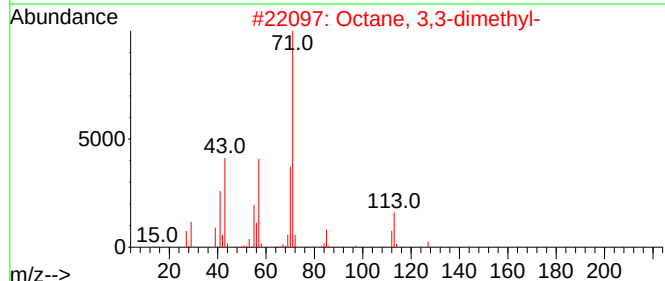
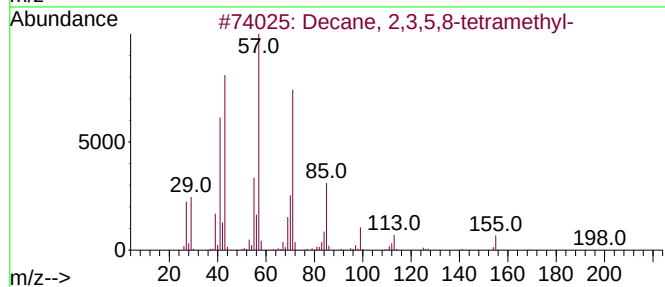
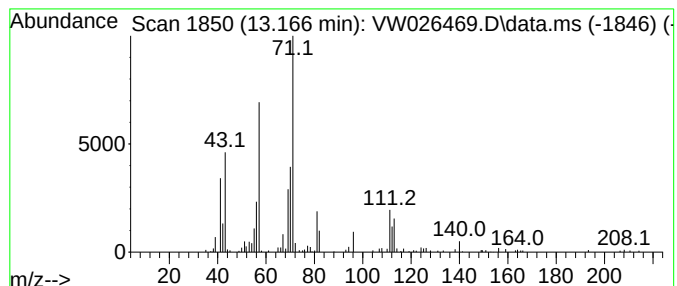
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*

Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 34

| R.T.      | EstConc                             | Area  | Relative to ISTD       |          |              | R.T.   |
|-----------|-------------------------------------|-------|------------------------|----------|--------------|--------|
| 13.166    | 1.26 ug/L                           | 57620 | 1,4-Dichlorobenzene-d4 |          |              | 13.556 |
| Hit# of 5 | Tentative ID                        |       | MW                     | MolForm  | CAS#         | Qual   |
| 1         | Decane, 2,3,5,8-tetramethyl-        |       | 198                    | C14H30   | 192823-15-7  | 59     |
| 2         | Octane, 3,3-dimethyl-               |       | 142                    | C10H22   | 004110-44-5  | 59     |
| 3         | Carbonic acid, neopentyl 2-ethyl... |       | 244                    | C14H28O3 | 1000357-85-7 | 53     |
| 4         | Decyl pentyl ether                  |       | 228                    | C15H32O  | 1000406-41-5 | 53     |
| 5         | Heptane, 3,3,5-trimethyl-           |       | 142                    | C10H22   | 007154-80-5  | 53     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

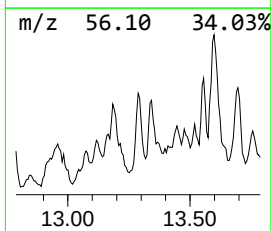
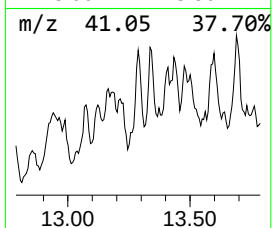
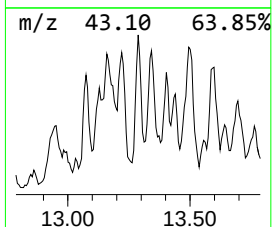
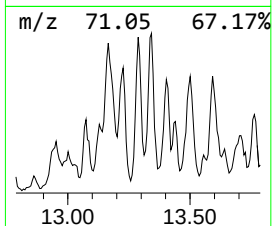
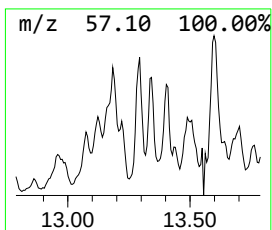
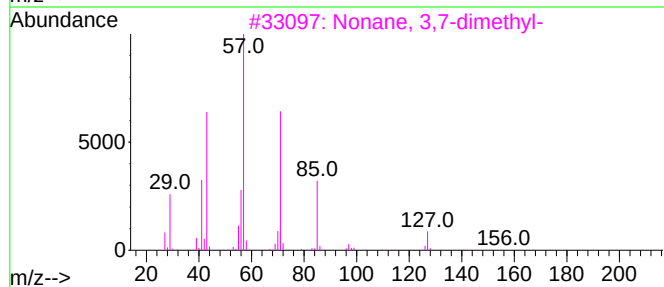
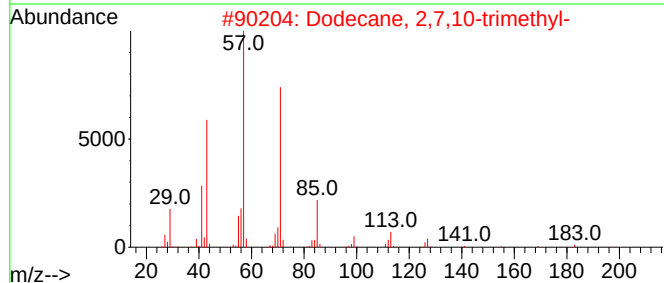
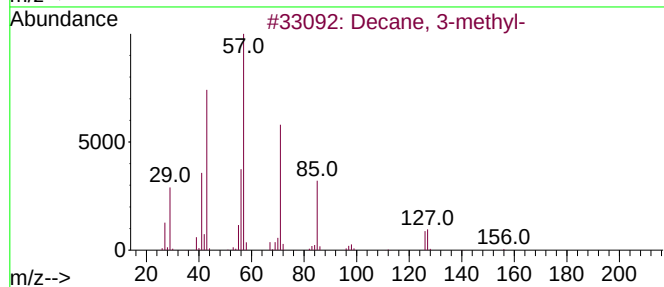
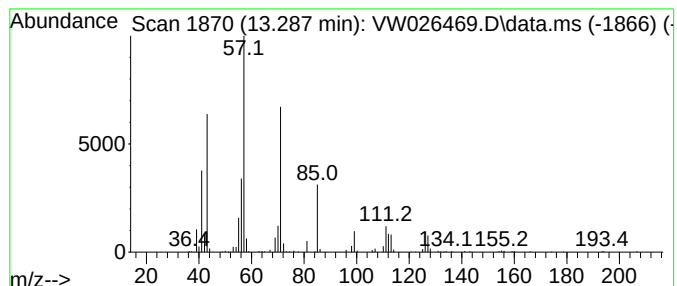
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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 10 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T.      | EstConc                     | Area   | Relative to ISTD       |         |             | R.T.   |
|-----------|-----------------------------|--------|------------------------|---------|-------------|--------|
| 13.288    | 2.79 ug/L                   | 127561 | 1,4-Dichlorobenzene-d4 |         |             | 13.556 |
| Hit# of 5 | Tentative ID                |        | MW                     | MolForm | CAS#        | Qual   |
| 1         | Decane, 3-methyl-           |        | 156                    | C11H24  | 013151-34-3 | 76     |
| 2         | Dodecane, 2,7,10-trimethyl- |        | 212                    | C15H32  | 074645-98-0 | 72     |
| 3         | Nonane, 3,7-dimethyl-       |        | 156                    | C11H24  | 017302-32-8 | 72     |
| 4         | Tetratetracontane           |        | 619                    | C44H90  | 007098-22-8 | 64     |
| 5         | Octane, 2-methyl-           |        | 128                    | C9H20   | 003221-61-2 | 64     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

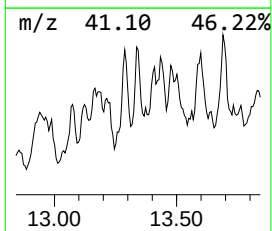
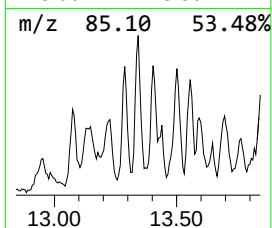
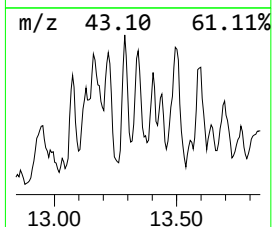
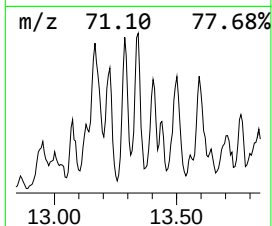
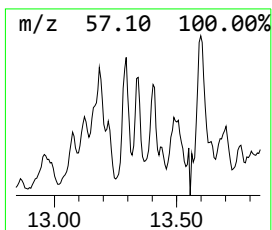
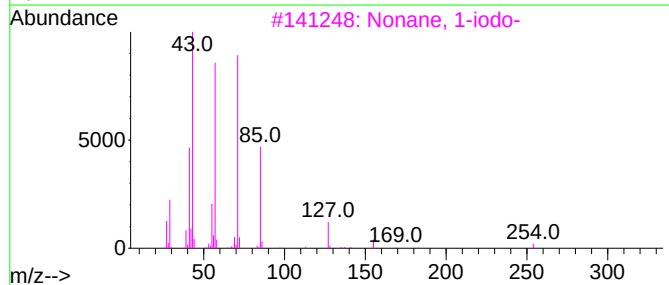
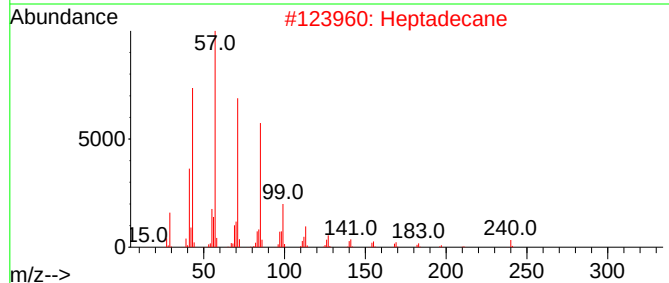
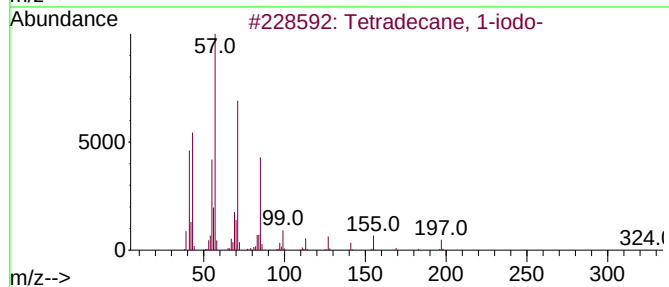
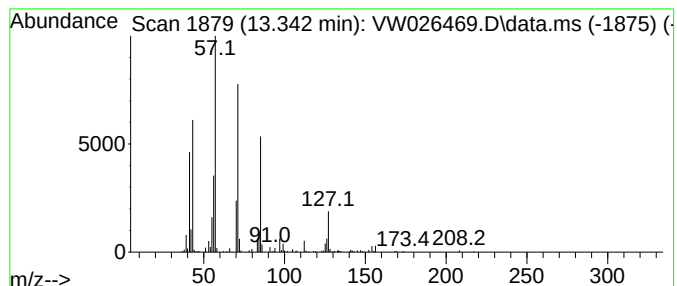
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 11 Tetradecane, 1-iodo- Concentration Rank 24

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.342 | 2.22 ug/L | 101680 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------|-----|---------|-------------|------|
| 1    |      | Tetradecane, 1-iodo-         | 324 | C14H29I | 019218-94-1 | 64   |
| 2    |      | Heptadecane                  | 240 | C17H36  | 000629-78-7 | 64   |
| 3    |      | Nonane, 1-iodo-              | 254 | C9H19I  | 004282-42-2 | 59   |
| 4    |      | Heptadecane, 8-methyl-       | 254 | C18H38  | 013287-23-5 | 59   |
| 5    |      | Octane, 2,3,6,7-tetramethyl- | 170 | C12H26  | 052670-34-5 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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

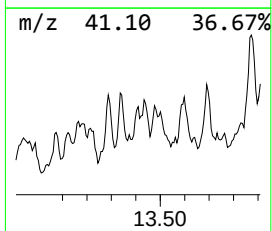
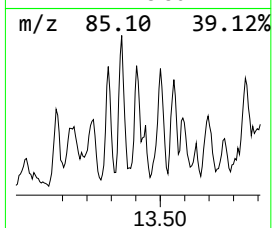
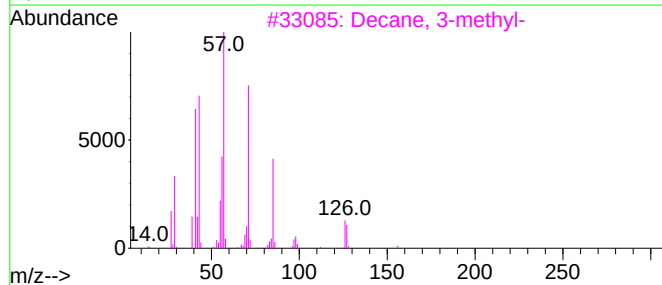
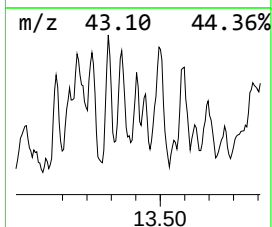
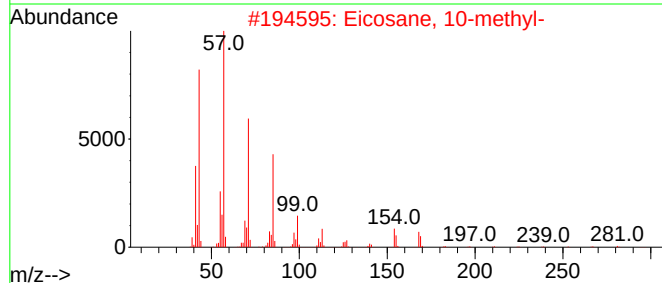
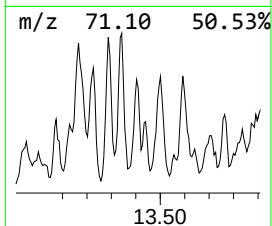
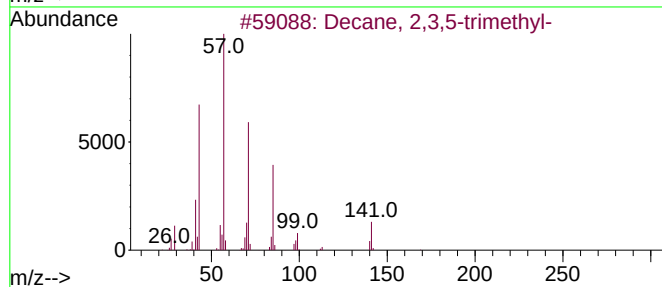
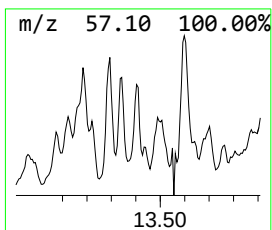
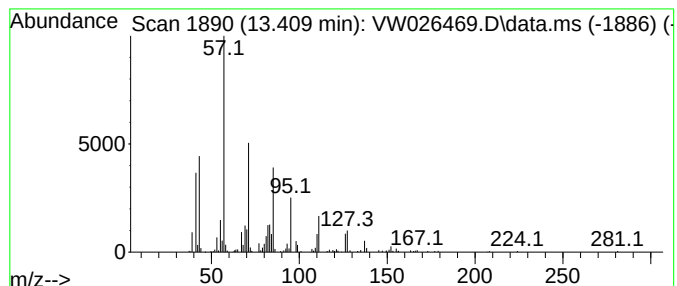
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 29

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.409 | 1.77 ug/L | 81101 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------|-----|---------|-------------|------|
| 1    |      | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 50   |
| 2    |      | Eicosane, 10-methyl-     | 296 | C21H44  | 054833-23-7 | 50   |
| 3    |      | Decane, 3-methyl-        | 156 | C11H24  | 013151-34-3 | 43   |
| 4    |      | Tetradecane              | 198 | C14H30  | 000629-59-4 | 40   |
| 5    |      | Octacosane               | 394 | C28H58  | 000630-02-4 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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

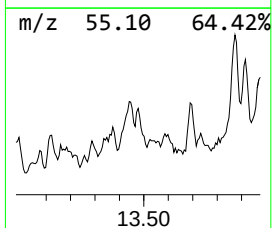
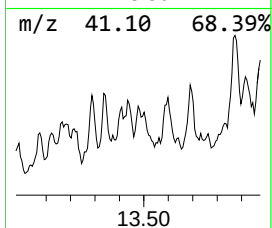
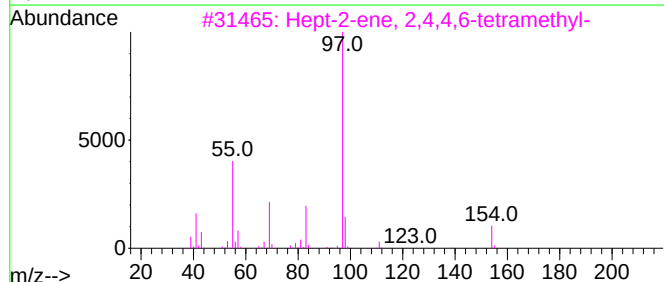
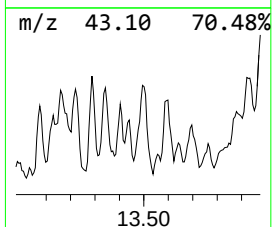
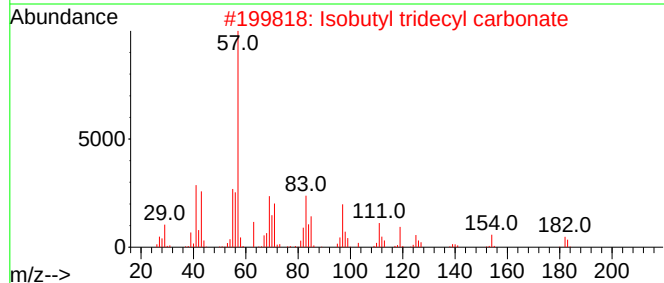
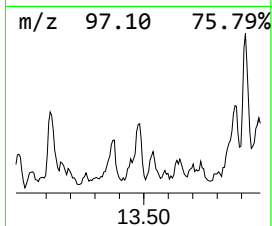
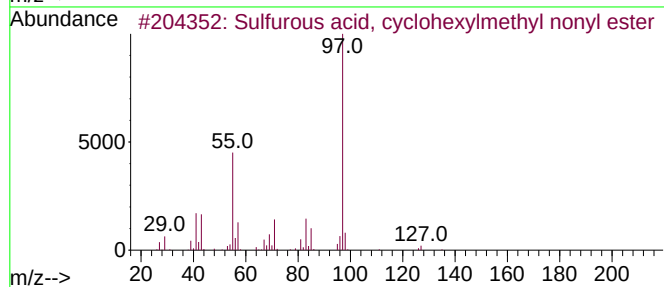
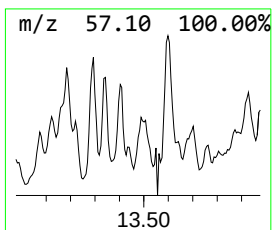
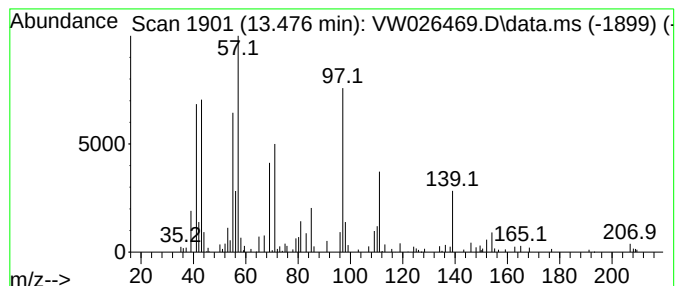
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 13 Sulfurous acid, cyclohexylm... Concentration Rank 26

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.477 | 2.12 ug/L | 96914 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Sulfurous acid, cyclohexylmethyl... | 304 | C16H32O3S | 1000309-21-8 | 50   |
| 2    |    |   | Isobutyl tridecyl carbonate         | 300 | C18H36O3  | 959275-44-6  | 35   |
| 3    |    |   | Hept-2-ene, 2,4,4,6-tetramethyl-    | 154 | C11H22    | 103982-58-7  | 35   |
| 4    |    |   | Cyclohexanone, 3-butyl-             | 154 | C10H18O   | 039178-69-3  | 35   |
| 5    |    |   | 1-Methyl-3-piperidyl cyclopentyl... | 317 | C19H27NO3 | 1010289-59-7 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

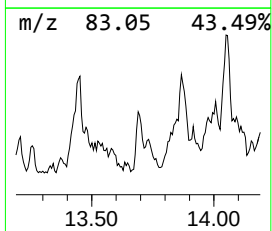
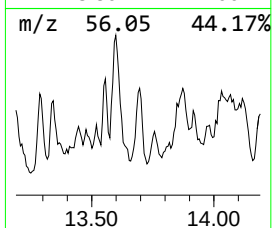
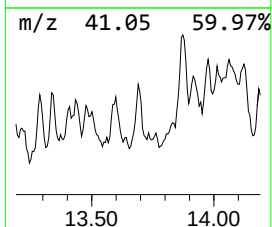
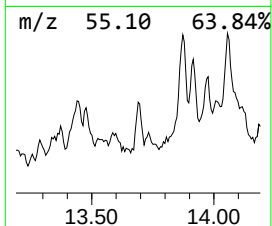
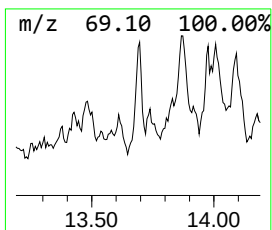
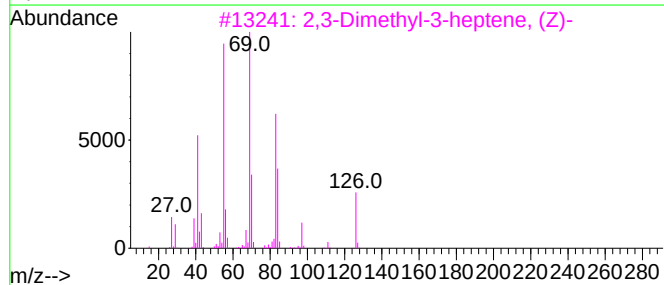
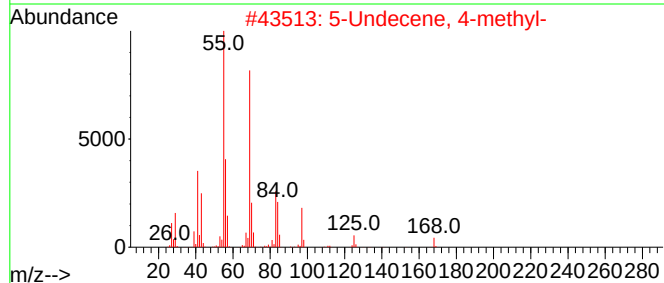
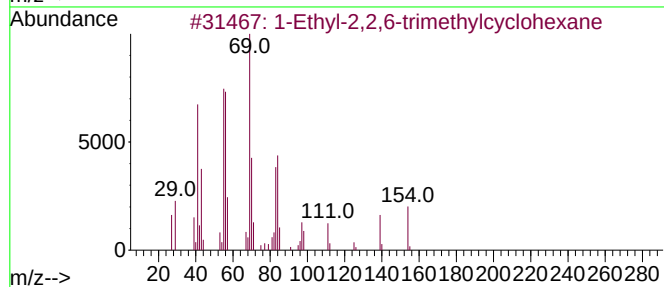
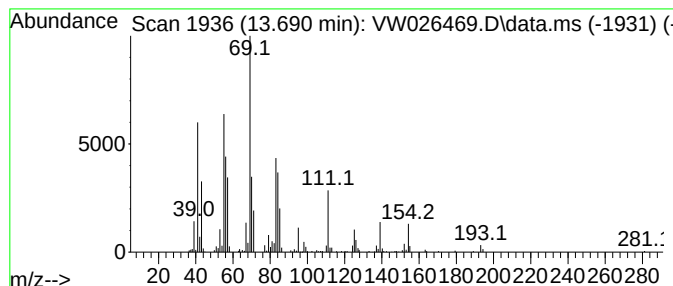
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Cyclic13.690 Concentration Rank 14

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.690 | 3.72 ug/L | 170346 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Ethyl-2,2,6-trimethylcyclohexane | 154 | C11H22  | 071186-27-1 | 72   |
| 2    |    |   | 5-Undecene, 4-methyl-              | 168 | C12H24  | 143185-91-5 | 50   |
| 3    |    |   | 2,3-Dimethyl-3-heptene, (Z)-       | 126 | C9H18   | 059643-73-1 | 47   |
| 4    |    |   | 2-Methyl-2-octene                  | 126 | C9H18   | 016993-86-5 | 43   |
| 5    |    |   | 2-Methyl-2-octene                  | 126 | C9H18   | 016993-86-5 | 43   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

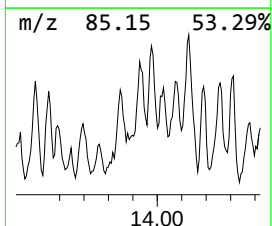
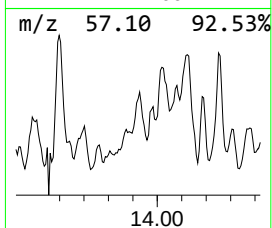
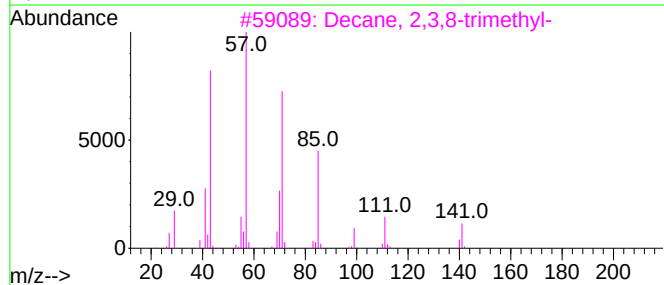
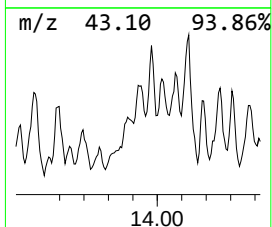
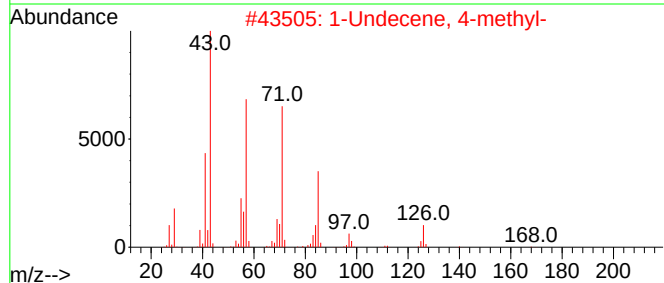
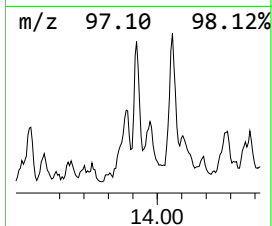
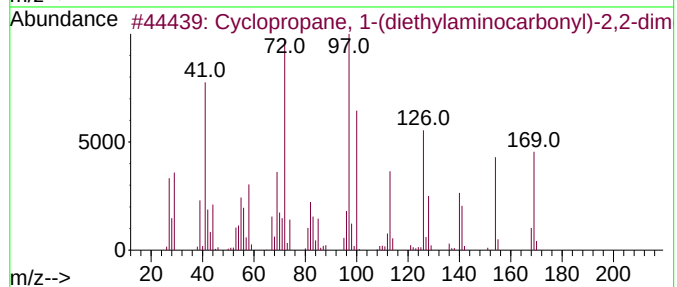
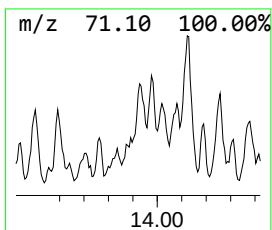
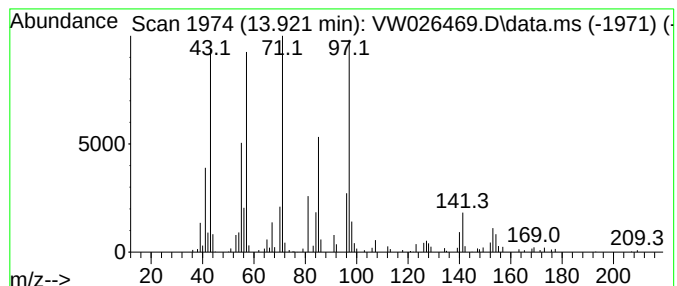
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 15 unknown-01 Concentration Rank 23

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.922 | 2.30 ug/L | 105437 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Cyclopropane, 1-(diethylaminocar... | 169 | C10H19NO | 1000154-89-6 | 38   |
| 2    |    |   | 1-Undecene, 4-methyl-               | 168 | C12H24   | 074630-39-0  | 38   |
| 3    |    |   | Decane, 2,3,8-trimethyl-            | 184 | C13H28   | 062238-14-6  | 38   |
| 4    |    |   | Hexane, 3,3-dimethyl-               | 114 | C8H18    | 000563-16-6  | 38   |
| 5    |    |   | Ethanone, 1-(1-methylcyclohexyl)-   | 140 | C9H16O   | 002890-62-2  | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

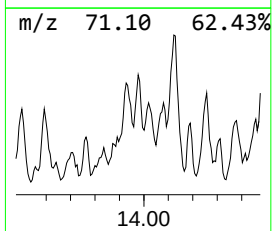
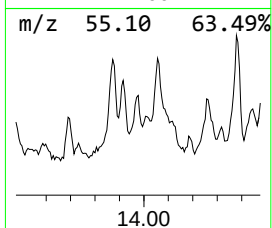
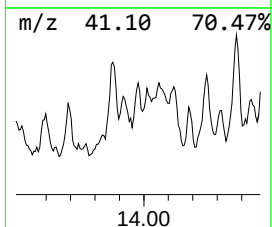
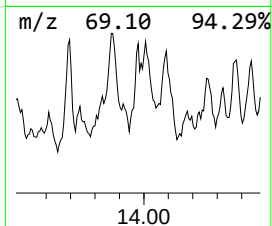
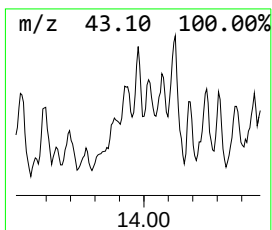
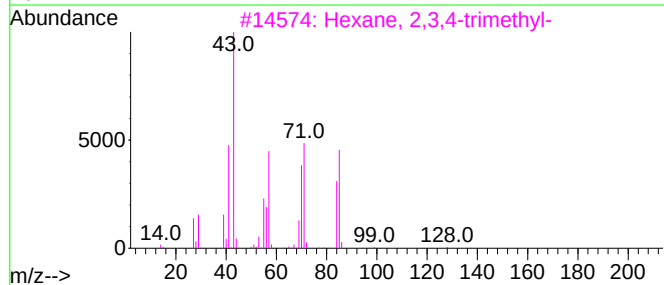
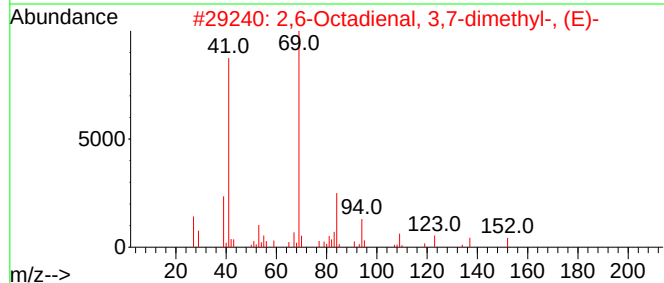
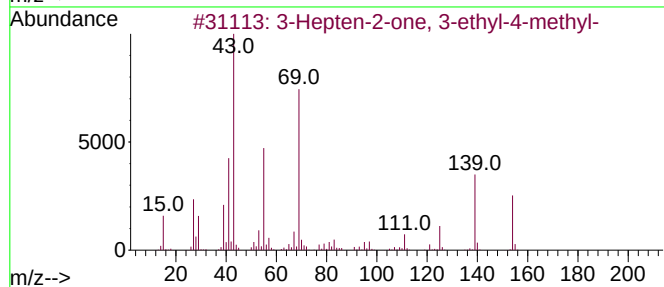
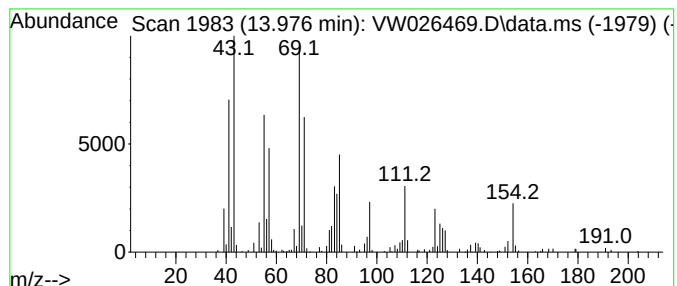
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 16 unknown-02 Concentration Rank 19

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.976 | 2.75 ug/L | 125935 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------------------|-----|---------|-------------|------|
| 1    |      | 3-Hepten-2-one, 3-ethyl-4-methyl-    | 154 | C10H18O | 054244-90-5 | 30   |
| 2    |      | 2,6-Octadienal, 3,7-dimethyl-, (E)-  | 152 | C10H16O | 000141-27-5 | 30   |
| 3    |      | Hexane, 2,3,4-trimethyl-             | 128 | C9H20   | 000921-47-1 | 30   |
| 4    |      | Cyclohexane, 1,3,5-trimethyl-, (...) | 126 | C9H18   | 001795-26-2 | 30   |
| 5    |      | Cyclopropane, 1,1,2-trimethyl-       | 84  | C6H12   | 004127-45-1 | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

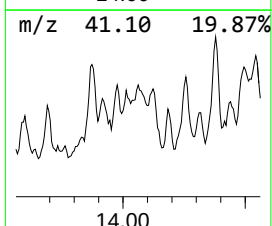
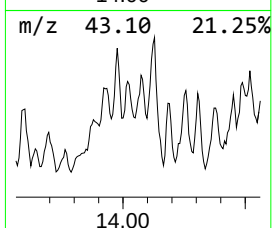
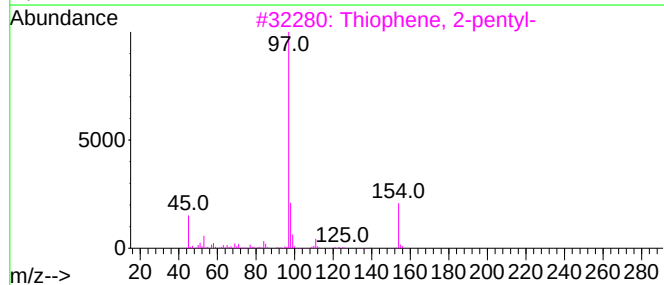
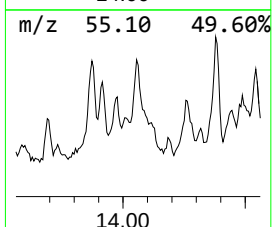
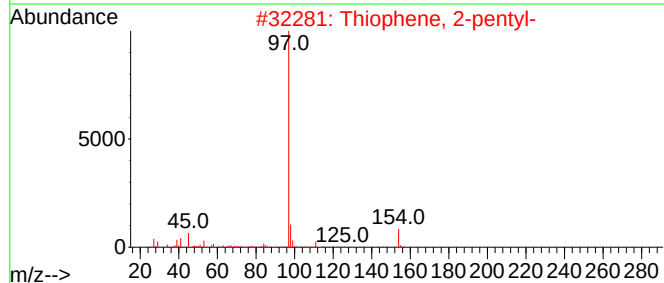
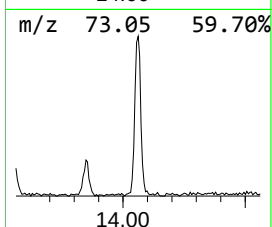
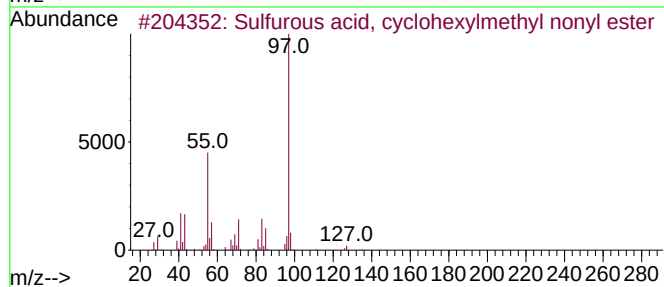
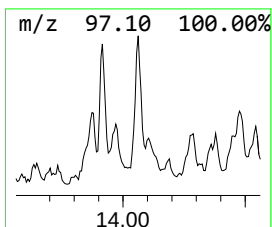
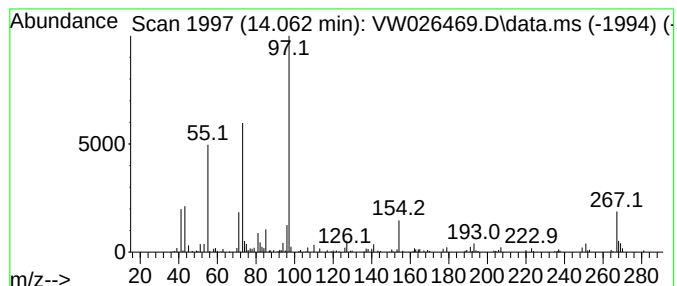
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 17 unknown-03 Concentration Rank 21

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.062 | 2.63 ug/L | 120395 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Sulfurous acid, cyclohexylmethyl... | 304 | C16H32O3S | 1000309-21-8 | 50   |
| 2    |    |   | Thiophene, 2-pentyl-                | 154 | C9H14S    | 004861-58-9  | 47   |
| 3    |    |   | Thiophene, 2-pentyl-                | 154 | C9H14S    | 004861-58-9  | 47   |
| 4    |    |   | Hept-2-ene, 2,4,4,6-tetramethyl-    | 154 | C11H22    | 103982-58-7  | 47   |
| 5    |    |   | Sulfurous acid, cyclohexylmethyl... | 416 | C24H48O3S | 1000309-22-5 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

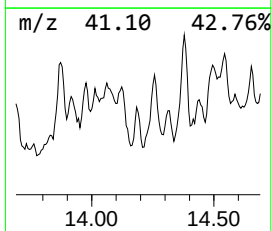
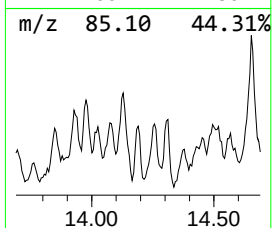
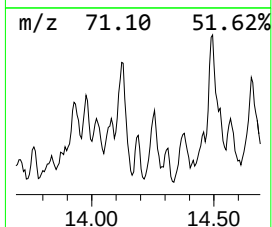
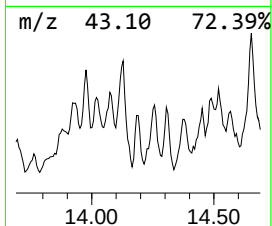
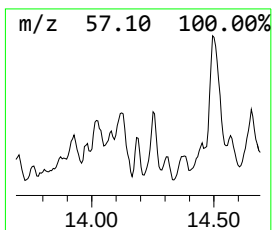
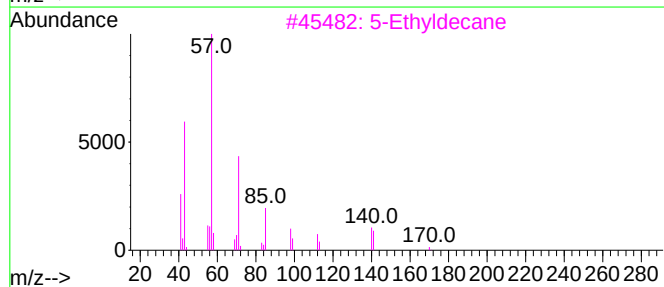
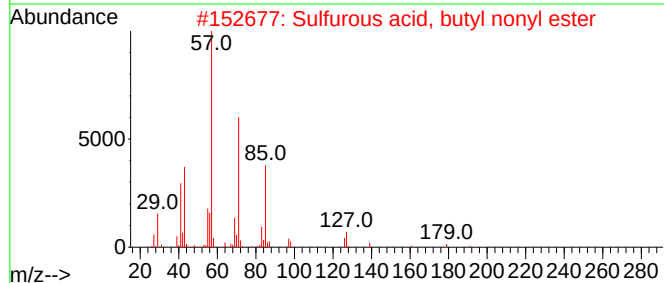
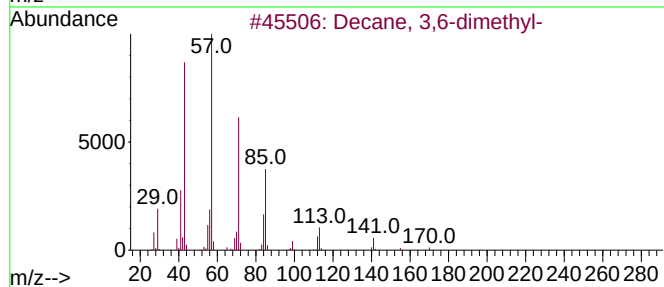
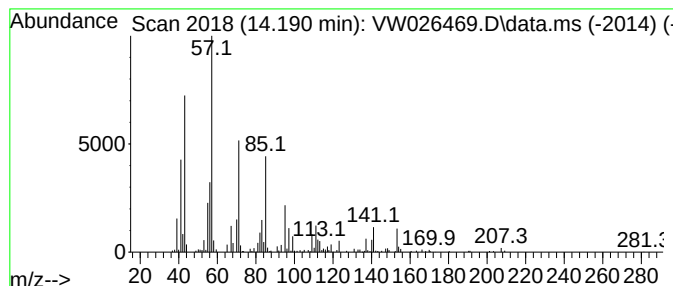
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.190 | 2.52 ug/L | 115198 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Decane, 3,6-dimethyl-             | 170 | C12H26    | 017312-53-7  | 64   |
| 2    |    |   | Sulfurous acid, butyl nonyl ester | 264 | C13H28O3S | 1000309-17-6 | 47   |
| 3    |    |   | 5-Ethyldecane                     | 170 | C12H26    | 017302-36-2  | 46   |
| 4    |    |   | 1-Iodo-2-methylnonane             | 268 | C10H21I   | 1000101-47-9 | 43   |
| 5    |    |   | Nonane, 3-methyl-                 | 142 | C10H22    | 005911-04-6  | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

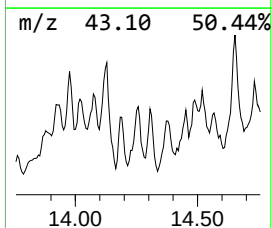
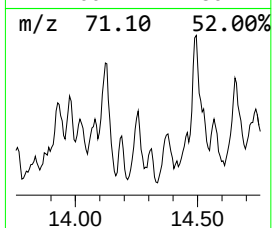
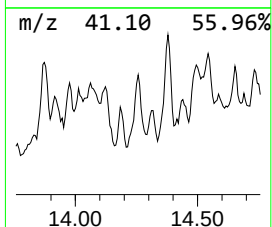
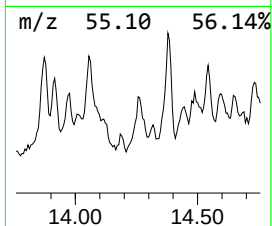
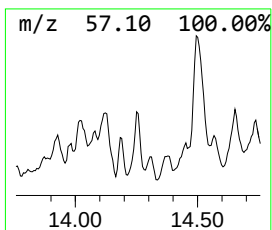
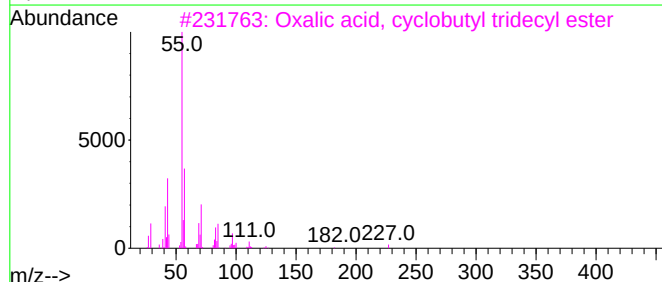
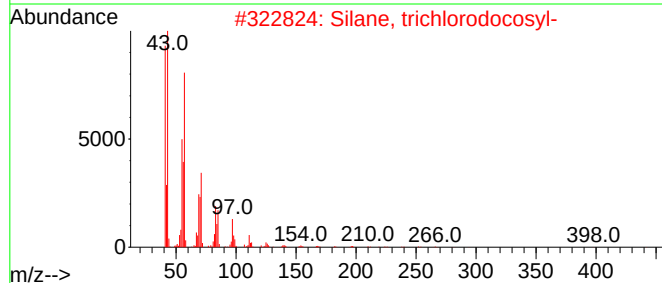
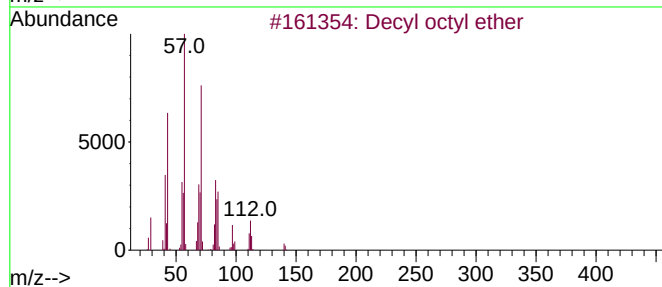
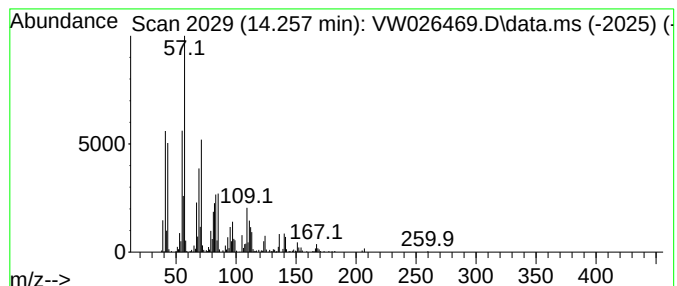
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 19 Decyl octyl ether Concentration Rank 12

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.257 | 5.05 ug/L | 231285 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Decyl octyl ether                   | 270 | C18H38O     | 1000406-38-3 | 53   |
| 2    |    |   | Silane, trichlorodocosyl-           | 442 | C22H45Cl3Si | 007325-84-0  | 47   |
| 3    |    |   | Oxalic acid, cyclobutyl tridecyl... | 326 | C19H34O4    | 1000309-70-4 | 47   |
| 4    |    |   | Nonane, 3-methyl-                   | 142 | C10H22      | 005911-04-6  | 38   |
| 5    |    |   | Undecane, 5-methyl-                 | 170 | C12H26      | 001632-70-8  | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

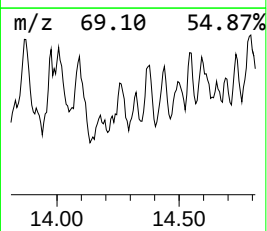
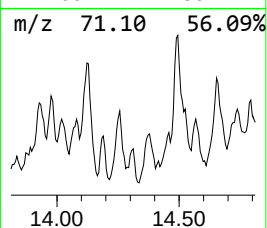
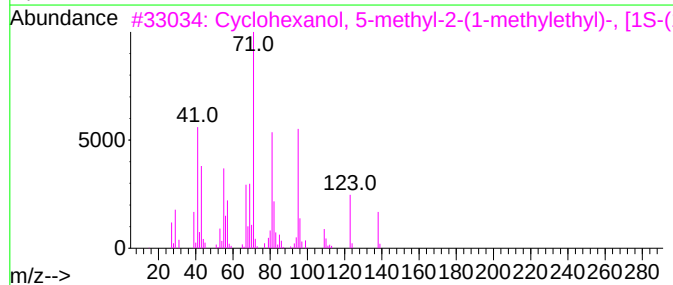
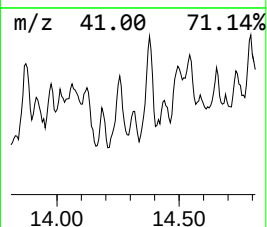
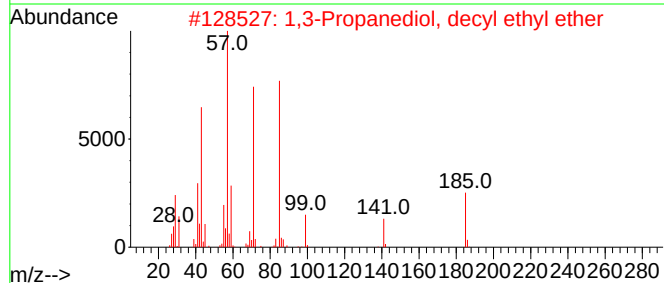
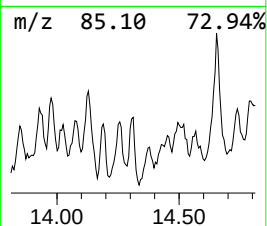
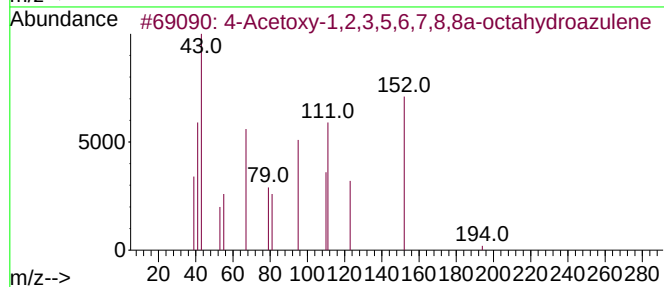
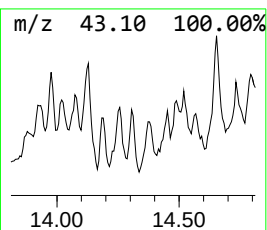
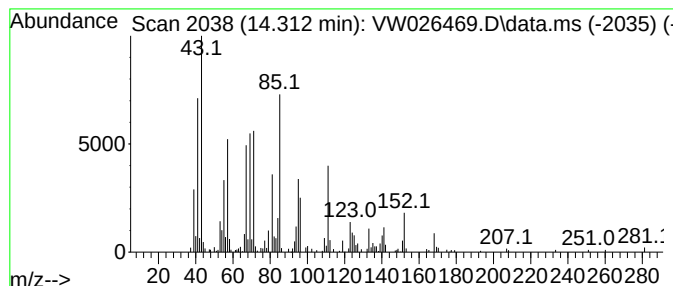
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 20 unknown-04 Concentration Rank 32

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.312 | 1.67 ug/L | 76420 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 4-Acetoxy-1,2,3,5,6,7,8,8a-octah... | 194 | C12H18O2 | 102261-82-5  | 32   |
| 2    |    |   | 1,3-Propanediol, decyl ethyl ether  | 244 | C15H32O2 | 1000406-35-0 | 22   |
| 3    |    |   | Cyclohexanol, 5-methyl-2-(1-meth... | 156 | C10H20O  | 023283-97-8  | 22   |
| 4    |    |   | Carbonic acid, dodecyl vinyl ester  | 256 | C15H28O3 | 1000382-54-8 | 14   |
| 5    |    |   | trans-2,3-Epoxydecane               | 156 | C10H20O  | 054125-39-2  | 14   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

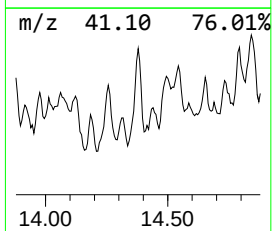
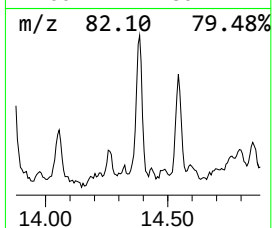
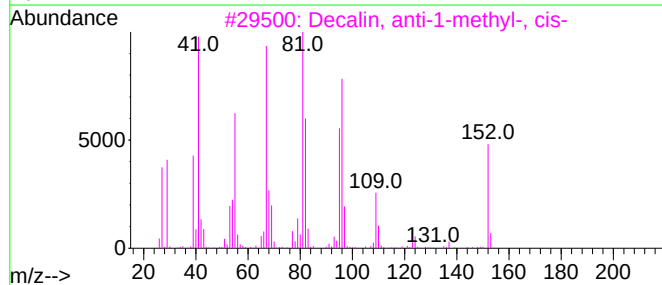
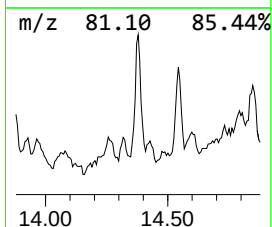
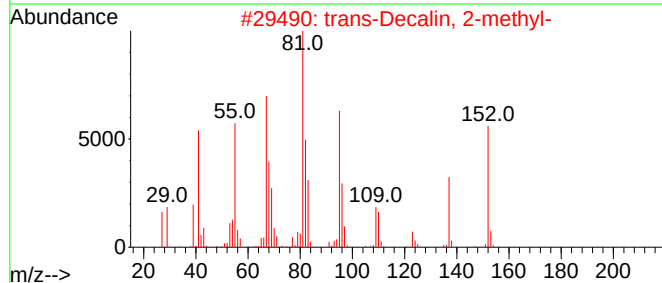
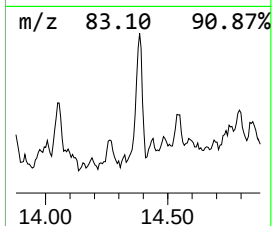
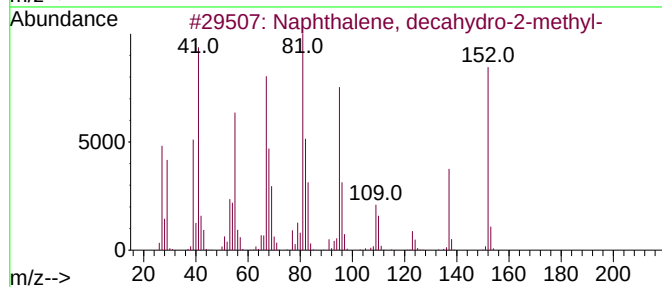
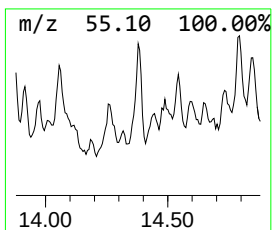
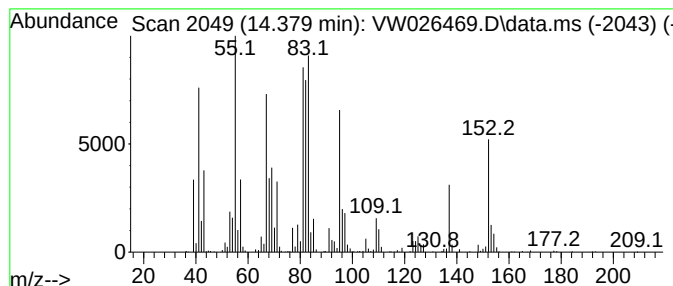
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 21 Naphthalene, decahydro-2-me... Concentration Rank 2

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.379 | 9.76 ug/L | 446954 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 97   |
| 2    |    |   | trans-Decalin, 2-methyl-         | 152 | C11H20  | 1000152-47-3 | 58   |
| 3    |    |   | Decalin, anti-1-methyl-, cis-    | 152 | C11H20  | 1000158-89-0 | 53   |
| 4    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 46   |
| 5    |    |   | 1-Methyldecahydronaphthalene     | 152 | C11H20  | 002958-75-0  | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

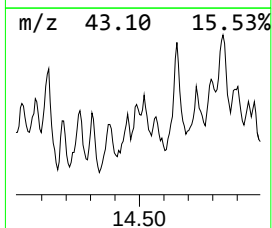
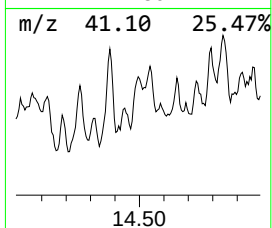
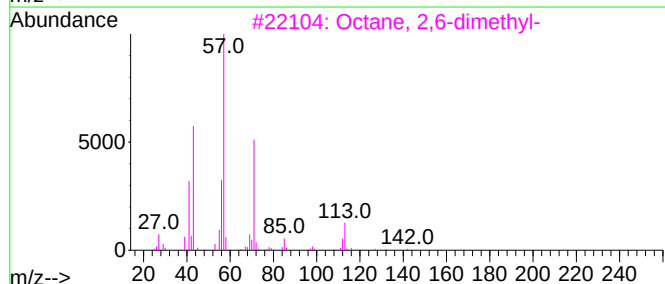
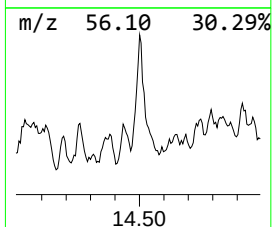
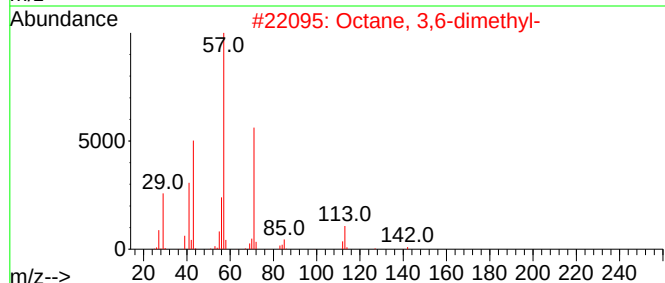
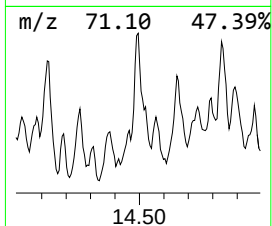
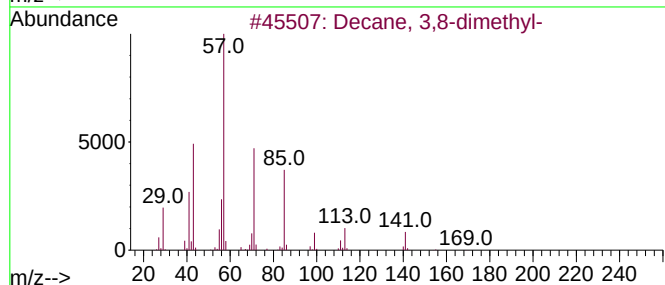
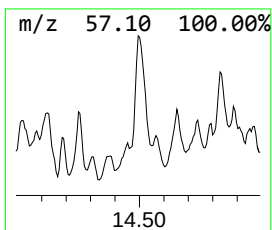
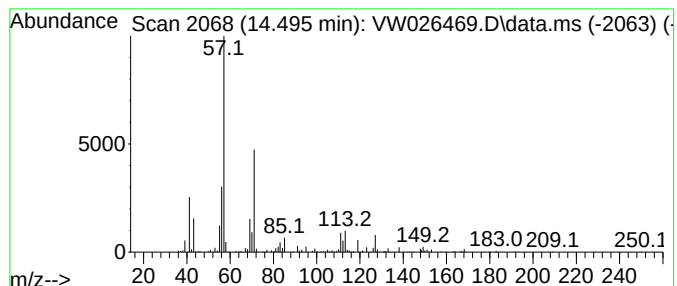
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.495 | 5.81 ug/L | 266164 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Decane, 3,8-dimethyl-               | 170 | C12H26    | 017312-55-9  | 72   |
| 2    |    |   | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 72   |
| 3    |    |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 56   |
| 4    |    |   | Undecane, 2,6-dimethyl-             | 184 | C13H28    | 017301-23-4  | 53   |
| 5    |    |   | Sulfurous acid, butyl 2-ethylhex... | 250 | C12H26O3S | 1000309-18-8 | 53   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

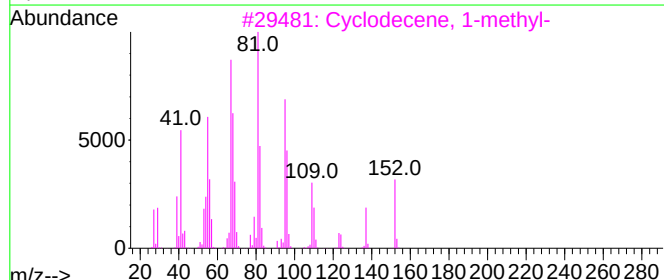
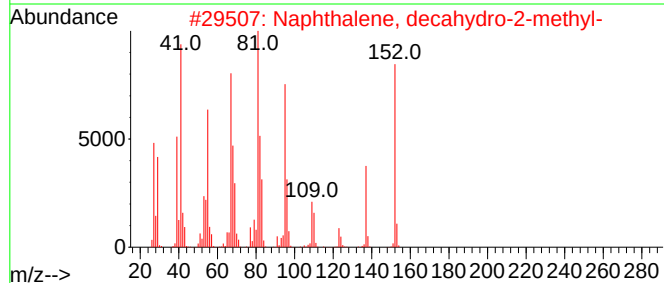
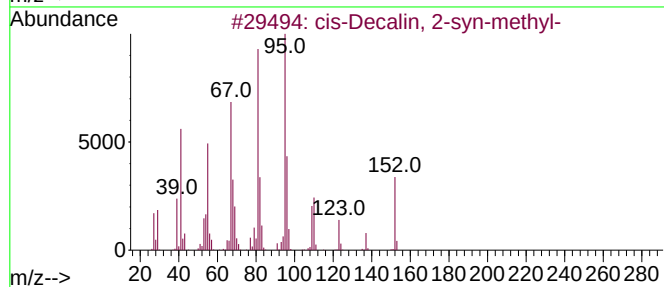
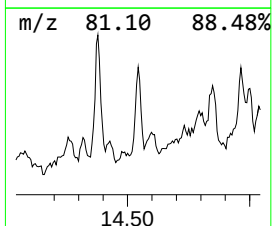
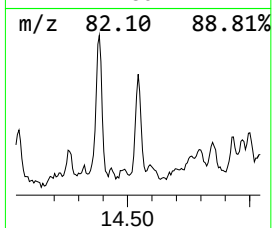
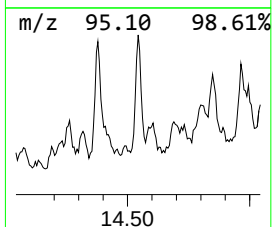
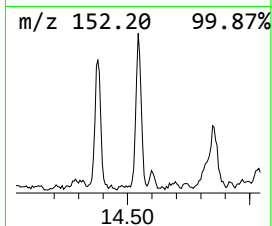
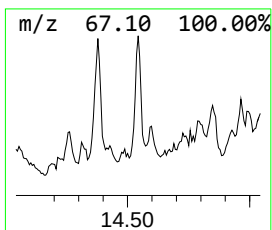
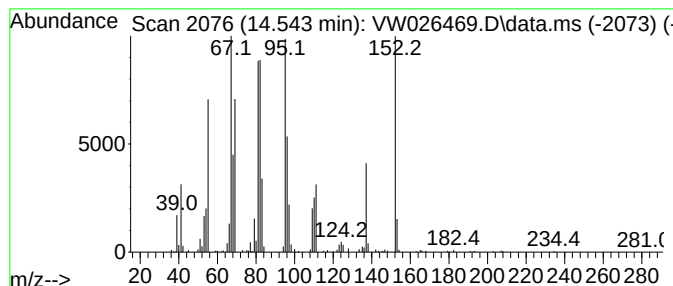
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 23 cis-Decalin, 2-syn-methyl- Concentration Rank 13

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.543 | 4.58 ug/L | 209972 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------|-----|---------|--------------|------|
| 1    |    |   | cis-Decalin, 2-syn-methyl-       | 152 | C11H20  | 1000155-85-6 | 90   |
| 2    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 90   |
| 3    |    |   | Cyclodecene, 1-methyl-           | 152 | C11H20  | 066633-38-3  | 68   |
| 4    |    |   | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 52   |
| 5    |    |   | Cyclododecene, (Z)-              | 166 | C12H22  | 001129-89-1  | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

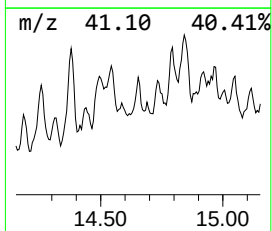
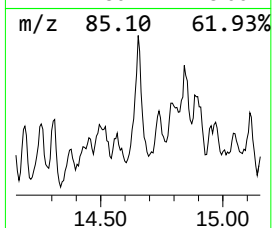
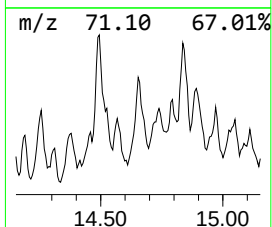
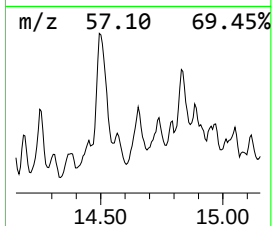
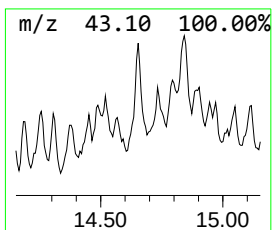
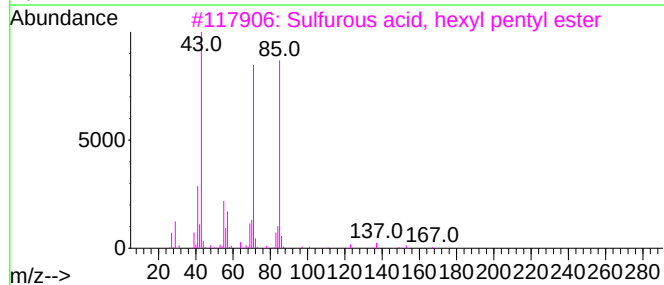
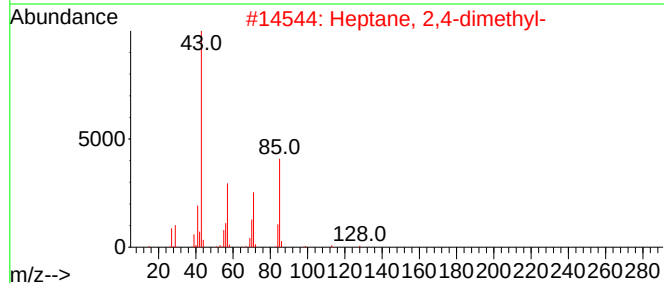
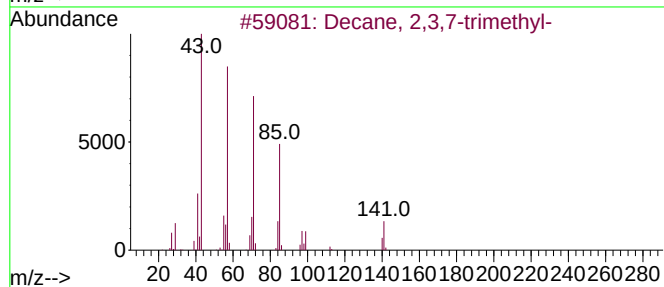
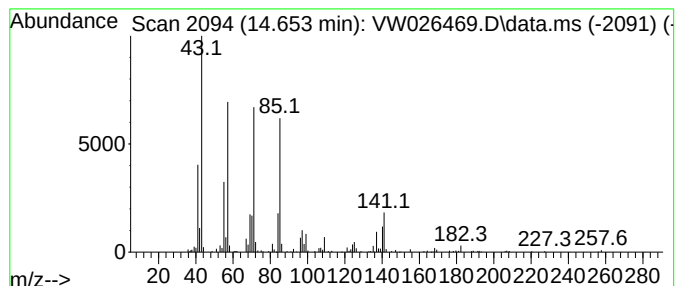
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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 24 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T.      | EstConc                             | Area  | Relative to ISTD       | R.T.         |      |
|-----------|-------------------------------------|-------|------------------------|--------------|------|
| 14.653    | 1.71 ug/L                           | 78538 | 1,4-Dichlorobenzene-d4 | 13.556       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm                | CAS#         | Qual |
| 1         | Decane, 2,3,7-trimethyl-            | 184   | C13H28                 | 062238-13-5  | 64   |
| 2         | Heptane, 2,4-dimethyl-              | 128   | C9H20                  | 002213-23-2  | 47   |
| 3         | Sulfurous acid, hexyl pentyl ester  | 236   | C11H24O3S              | 1000309-14-1 | 47   |
| 4         | Oxalic acid, dodecyl isohexyl ester | 342   | C20H38O4               | 1000309-33-5 | 43   |
| 5         | Sulfurous acid, isohexyl pentyl ... | 236   | C11H24O3S              | 1000309-14-0 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

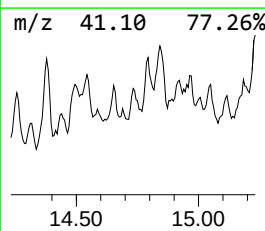
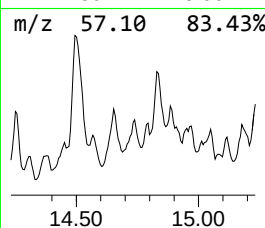
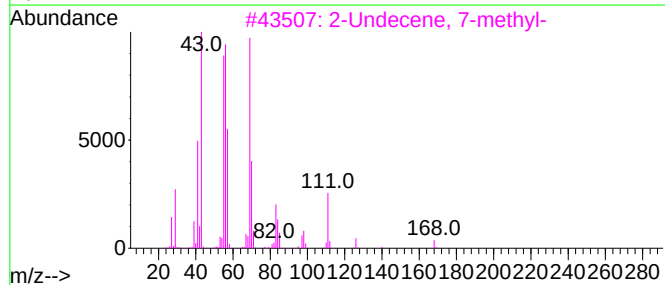
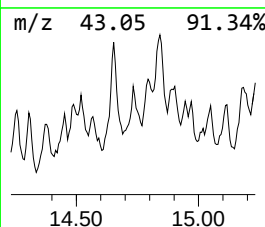
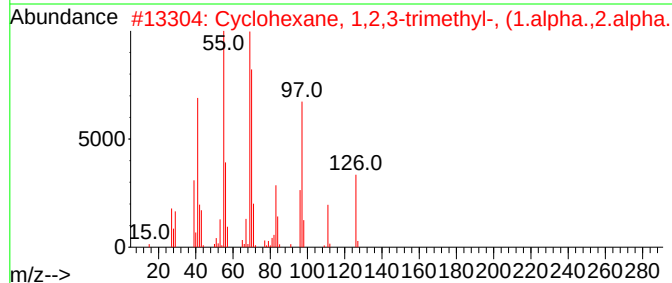
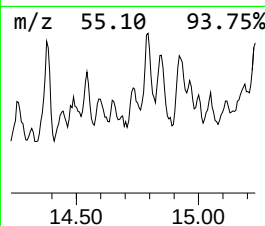
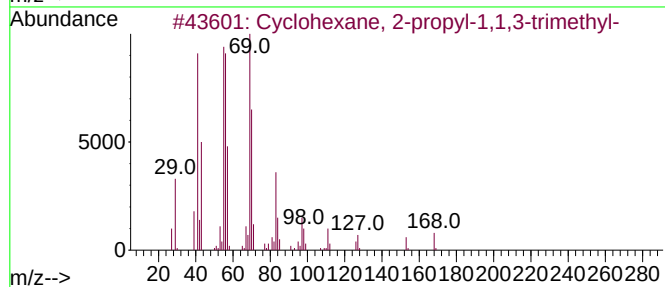
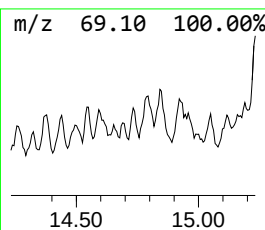
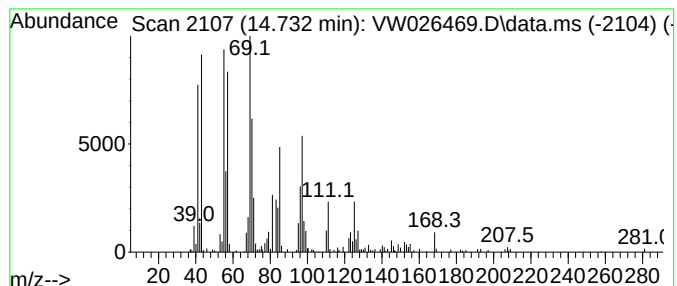
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 25 (DEL) Alkane: Cyclic14.732 Concentration Rank 20

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.732 | 2.65 ug/L | 121214 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                                       | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclohexane, 2-propyl-1,1,3-trimethyl-             | 168 | C12H24  | 081983-70-2  | 49   |
| 2    |    |   | Cyclohexane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.) | 126 | C9H18   | 001839-88-9  | 47   |
| 3    |    |   | 2-Undecene, 7-methyl-                              | 168 | C12H24  | 1000061-83-0 | 45   |
| 4    |    |   | 4-Undecene, 4-methyl-                              | 168 | C12H24  | 061142-40-3  | 43   |
| 5    |    |   | 2-Pentene, 4-methyl-, (Z)-                         | 84  | C6H12   | 000691-38-3  | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

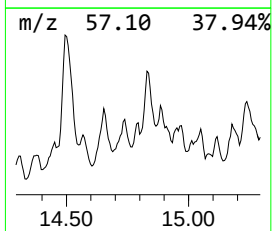
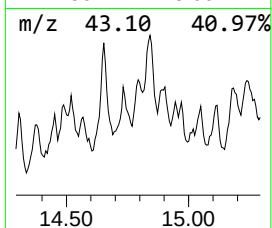
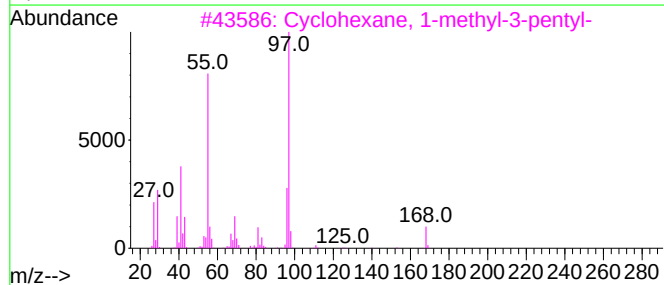
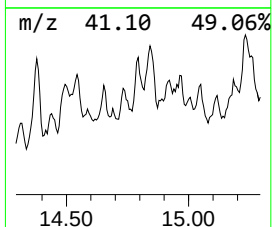
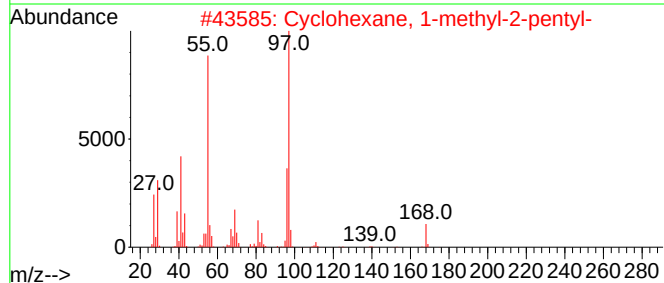
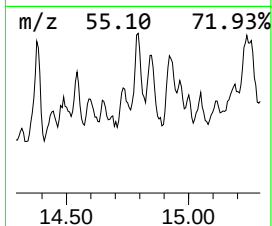
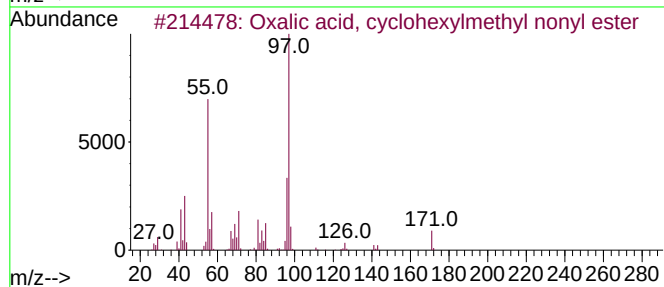
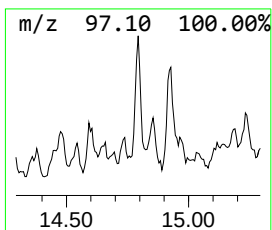
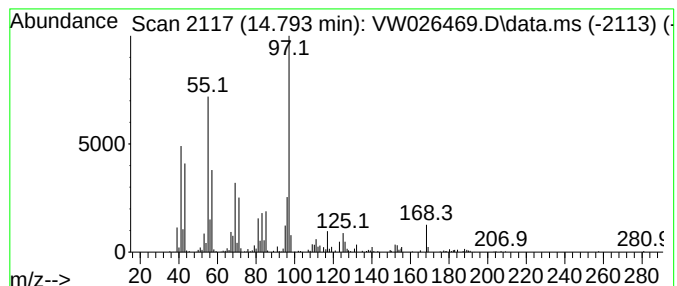
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 26 Oxalic acid, cyclohexylmeth... Concentration Rank 10

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.793 | 5.57 ug/L | 254993 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Oxalic acid, cyclohexylmethyl no... | 312 | C18H32O4  | 1000309-68-6 | 53   |
| 2    |    |   | Cyclohexane, 1-methyl-2-pentyl-     | 168 | C12H24    | 054411-01-7  | 52   |
| 3    |    |   | Cyclohexane, 1-methyl-3-pentyl-     | 168 | C12H24    | 054411-02-8  | 52   |
| 4    |    |   | Sulfurous acid, cyclohexylmethyl... | 416 | C24H48O3S | 1000309-22-5 | 50   |
| 5    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18     | 006236-88-0  | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

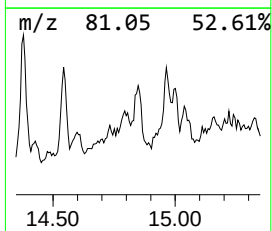
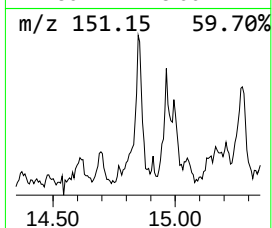
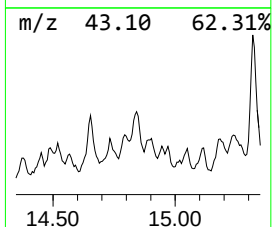
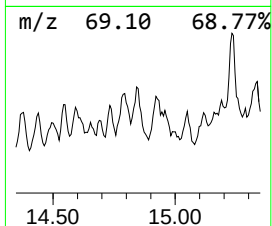
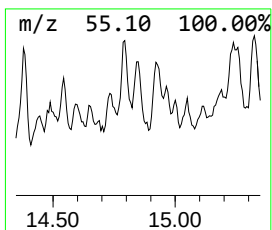
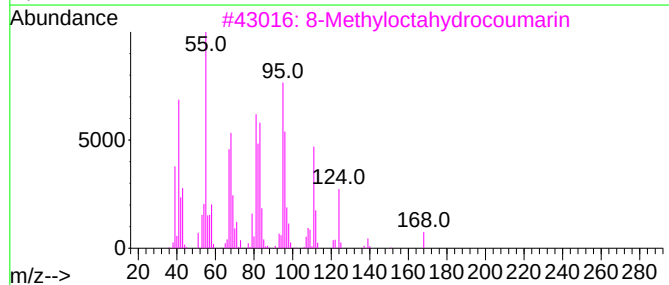
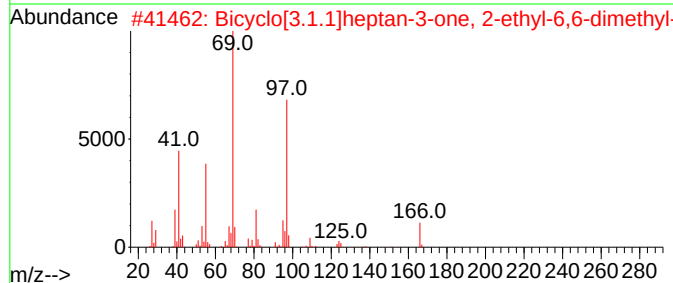
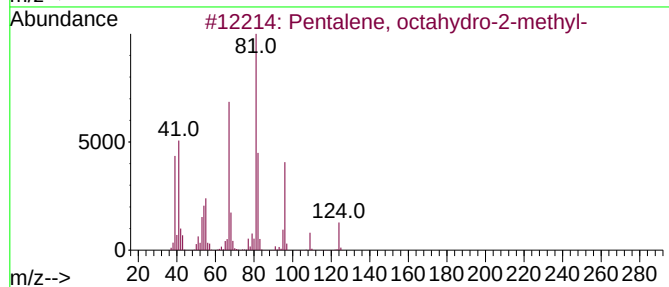
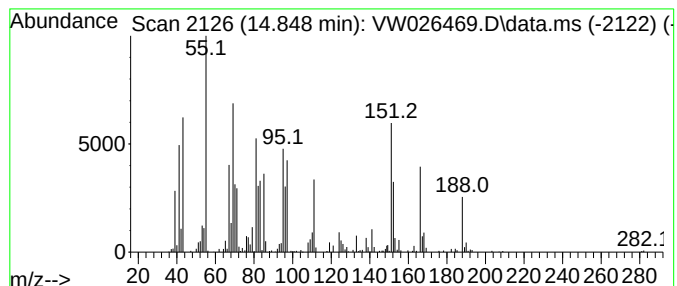
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 27 unknown-05 Concentration Rank 6

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.848 | 6.72 ug/L | 307931 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Pentalene, octahydro-2-methyl-      | 124 | C9H16    | 003868-64-2  | 45   |
| 2    |    |   | Bicyclo[3.1.1]heptan-3-one, 2-et... | 166 | C11H18O  | 1000163-95-8 | 38   |
| 3    |    |   | 8-Methyloctahydrocoumarin           | 168 | C10H16O2 | 021197-56-8  | 30   |
| 4    |    |   | Cyclodecene, 1-methyl-              | 152 | C11H20   | 066633-38-3  | 30   |
| 5    |    |   | trans-Decalin, 2-methyl-            | 152 | C11H20   | 1000152-47-3 | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

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

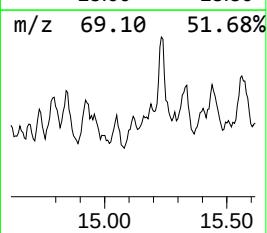
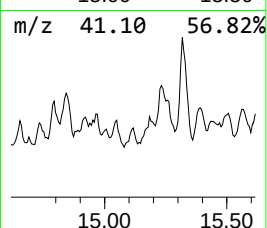
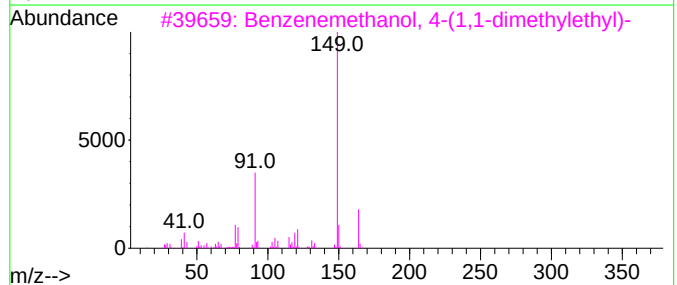
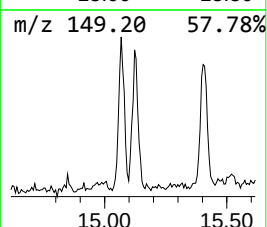
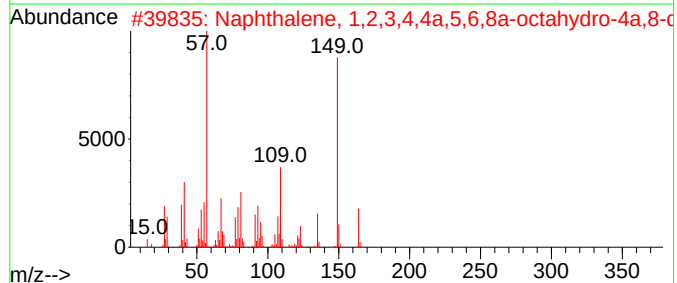
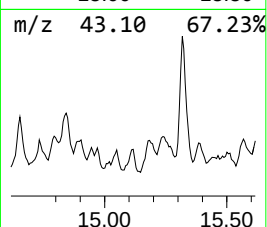
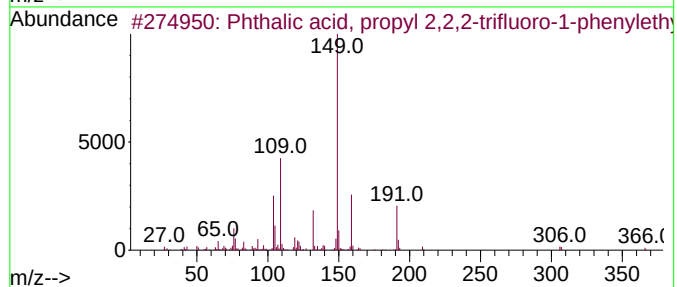
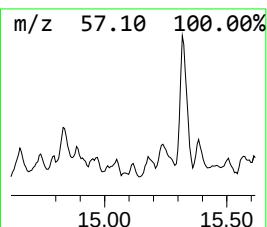
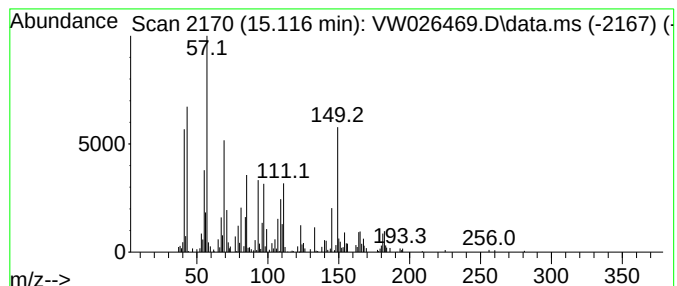
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 28 unknown-06 Concentration Rank 33

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 15.116 | 1.64 ug/L | 75063 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Phthalic acid, propyl 2,2,2-trif... | 366 | C19H17F3O4 | 1000377-70-0 | 22   |
| 2    |    |   | Naphthalene, 1,2,3,4,4a,5,6,8a-o... | 164 | C12H20     | 055976-09-5  | 16   |
| 3    |    |   | Benzenemethanol, 4-(1,1-dimethyl... | 164 | C11H16O    | 000877-65-6  | 14   |
| 4    |    |   | Adamantane, 1,3-dimethyl-           | 164 | C12H20     | 000702-79-4  | 11   |
| 5    |    |   | Benzene, 1-isothiocyanato-2-methyl- | 149 | C8H7NS     | 000614-69-7  | 11   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

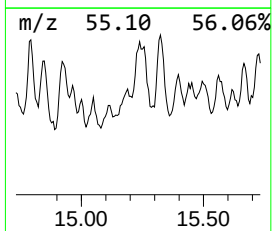
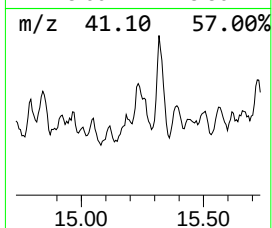
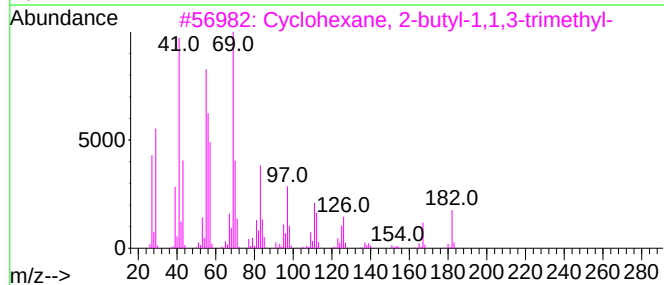
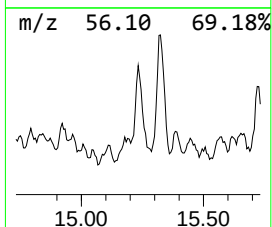
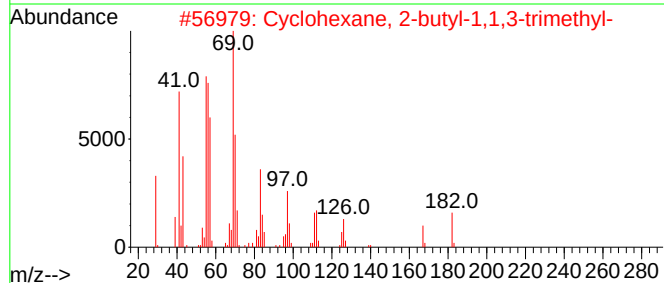
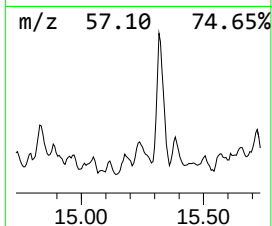
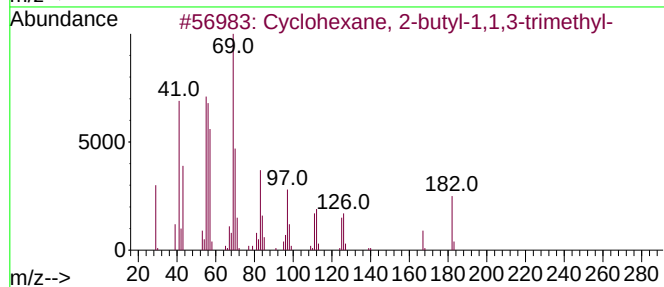
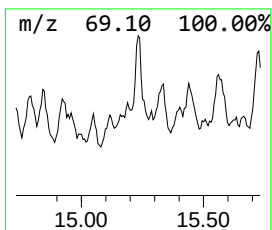
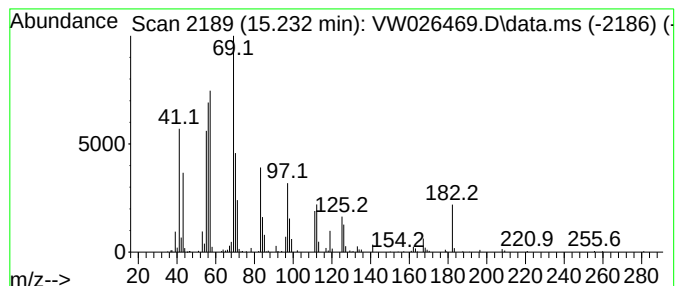
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 29 (DEL) Alkane: Cyclic15.232 Concentration Rank 4

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.232 | 8.51 ug/L | 389660 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26  | 054676-39-0 | 93   |
| 2    |      | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26  | 054676-39-0 | 93   |
| 3    |      | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26  | 054676-39-0 | 90   |
| 4    |      | Cyclopentane, propyl-               | 112 | C8H16   | 002040-96-2 | 64   |
| 5    |      | 3-Tetradecene, (E)-                 | 196 | C14H28  | 041446-68-8 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

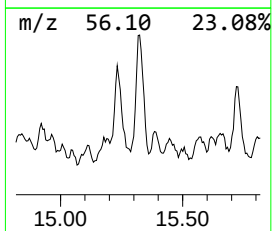
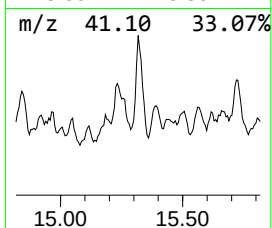
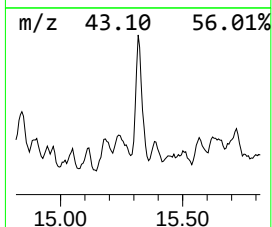
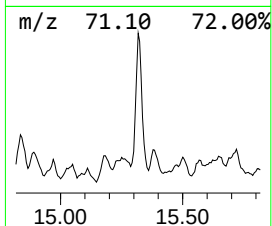
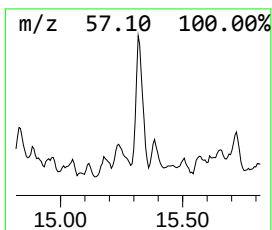
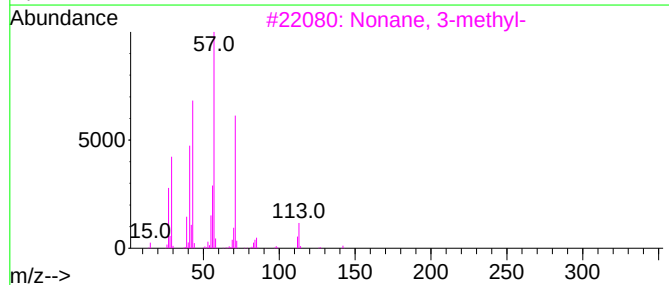
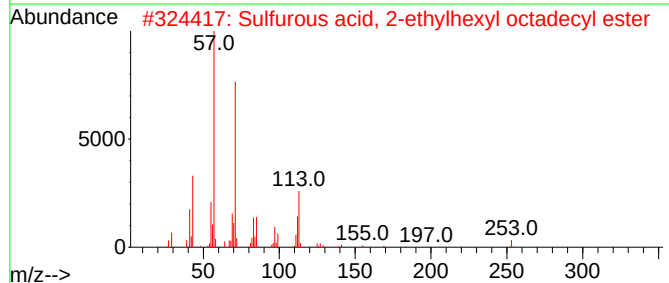
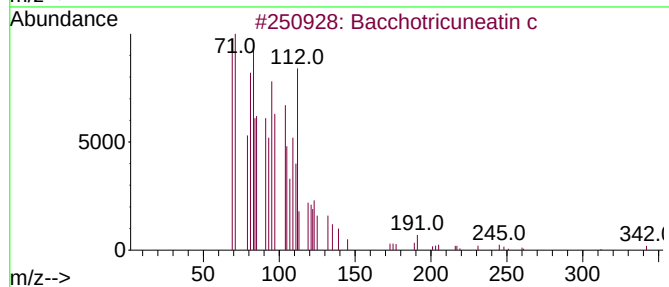
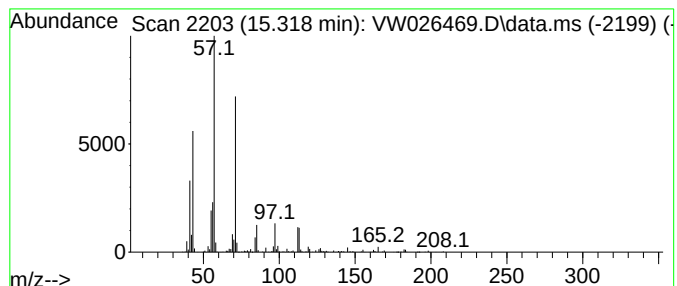
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 30 Bacchotricuneatin c Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.318 | 14.19 ug/L | 649913 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Bacchotricuneatin c                 | 342 | C20H22O5  | 066563-30-2  | 74   |
| 2    |    |   | Sulfurous acid, 2-ethylhexyl oct... | 446 | C26H54O3S | 1000309-20-1 | 64   |
| 3    |    |   | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 62   |
| 4    |    |   | Octane, 3,5-dimethyl-               | 142 | C10H22    | 015869-93-9  | 59   |
| 5    |    |   | Undecane, 4,6-dimethyl-             | 184 | C13H28    | 017312-82-2  | 58   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

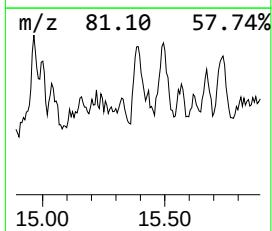
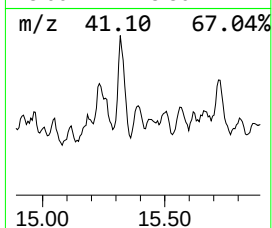
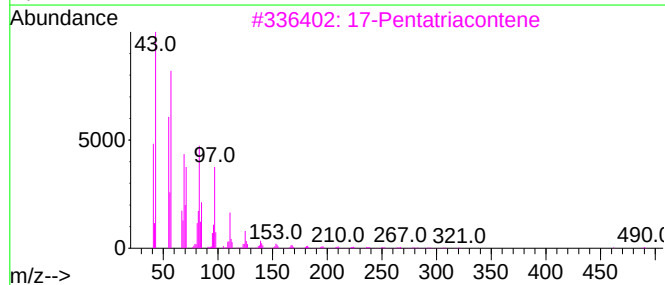
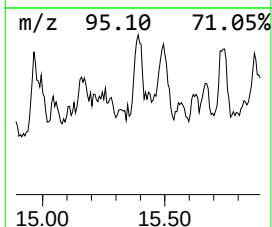
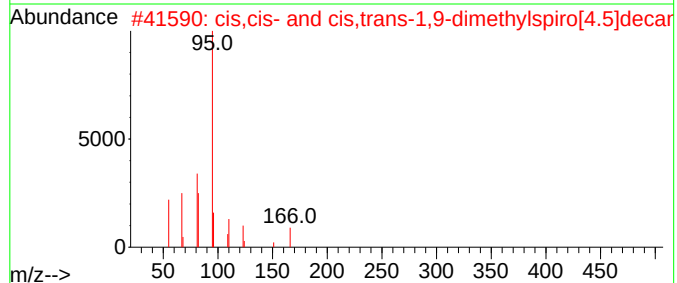
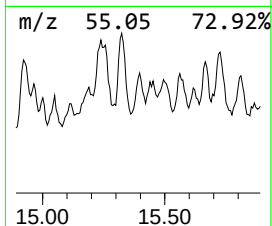
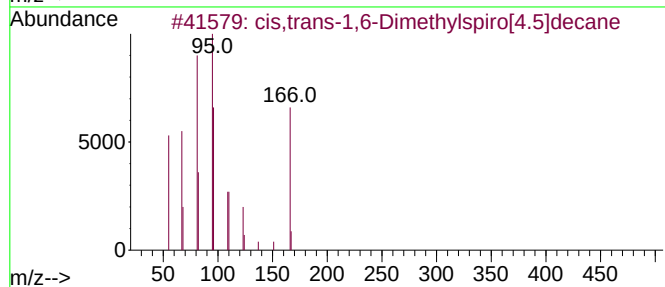
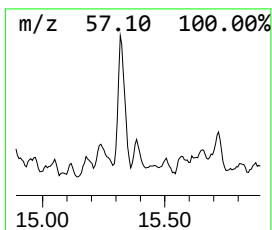
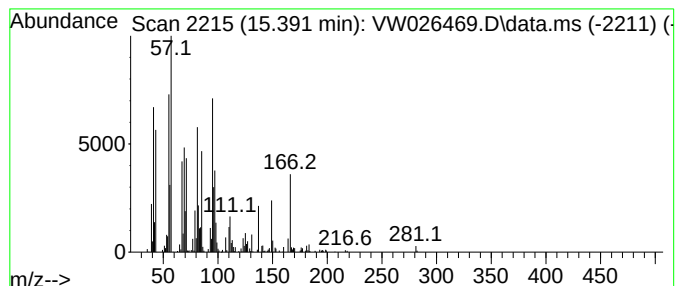
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 31 unknown-07 Concentration Rank 11

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.391 | 5.09 ug/L | 233054 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | cis,trans-1,6-Dimethylspiro[4.5]... | 166 | C12H22  | 1000111-72-3 | 41   |
| 2    |    |   | cis,cis- and cis,trans-1,9-dimet... | 166 | C12H22  | 1000111-72-5 | 38   |
| 3    |    |   | 17-Pentatriacontene                 | 491 | C35H70  | 006971-40-0  | 30   |
| 4    |    |   | Naphthalene, decahydro-1,6-dimet... | 166 | C12H22  | 001750-51-2  | 30   |
| 5    |    |   | Docosyl isobutyl ether              | 382 | C26H54O | 1000406-33-1 | 27   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

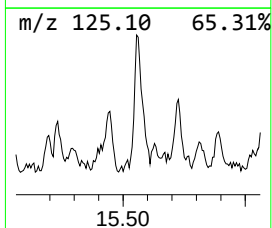
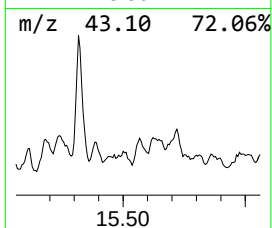
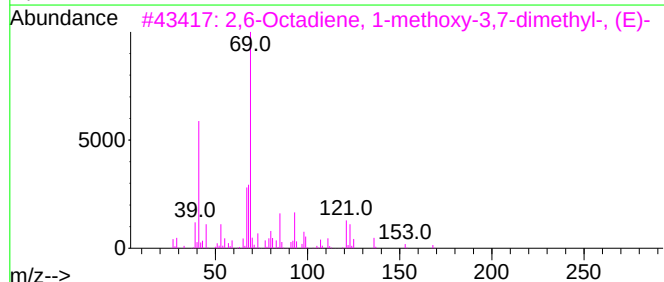
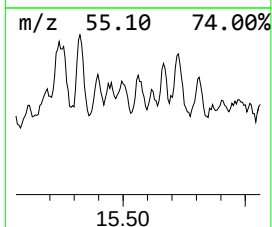
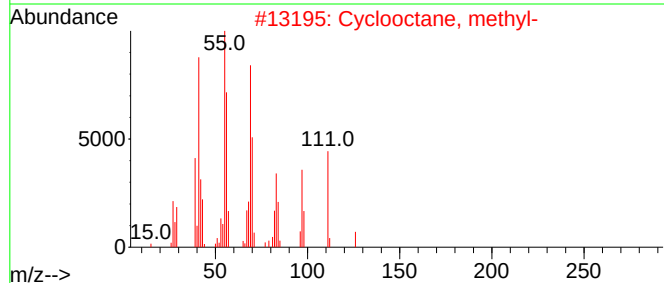
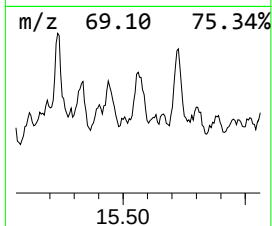
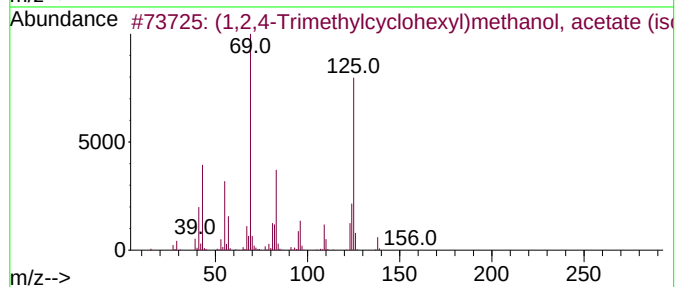
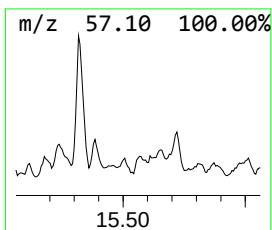
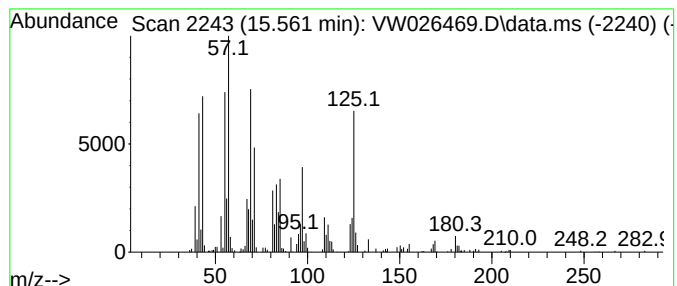
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 32 unknown-08 Concentration Rank 15

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.561 | 3.52 ug/L | 161354 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|------|-------------------------------------|-----|-----------|--------------|------|
| 1    |      | (1,2,4-Trimethylcyclohexyl)metha... | 198 | C12H22O2  | 1010499-04-6 | 49   |
| 2    |      | Cyclooctane, methyl-                | 126 | C9H18     | 001502-38-1  | 38   |
| 3    |      | 2,6-Octadiene, 1-methoxy-3,7-dim... | 168 | C11H20O   | 002565-82-4  | 30   |
| 4    |      | 5-Undecene, 7-methyl-, (E)-         | 168 | C12H24    | 074630-66-3  | 25   |
| 5    |      | 4H-Pyrano[3,4-d]thiazol-4-one, 6... | 155 | C6H5N2O2S | 072579-00-1  | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

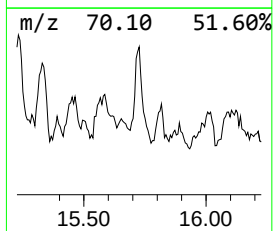
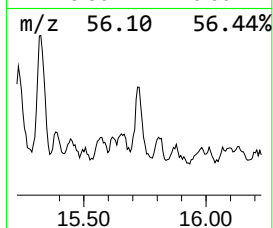
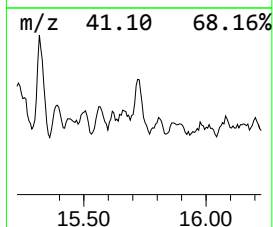
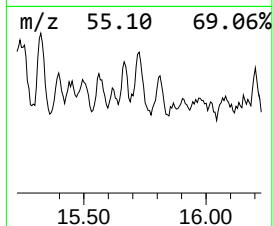
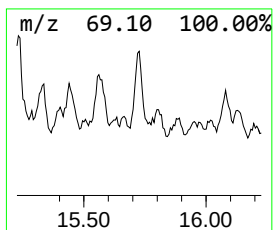
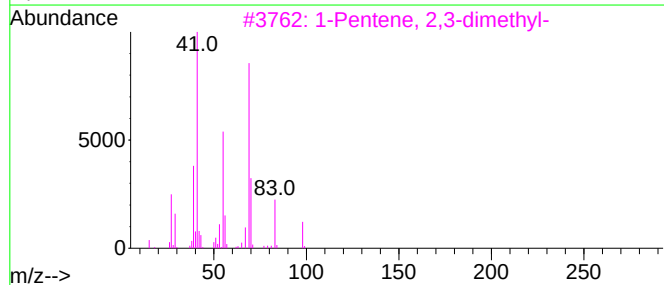
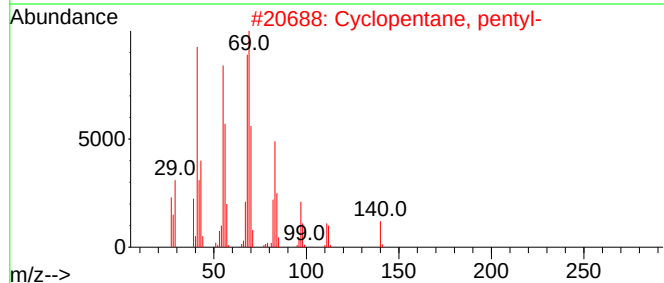
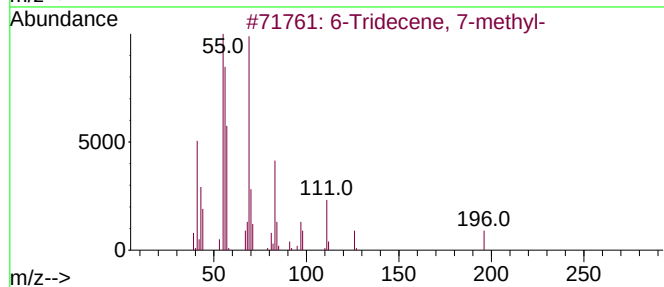
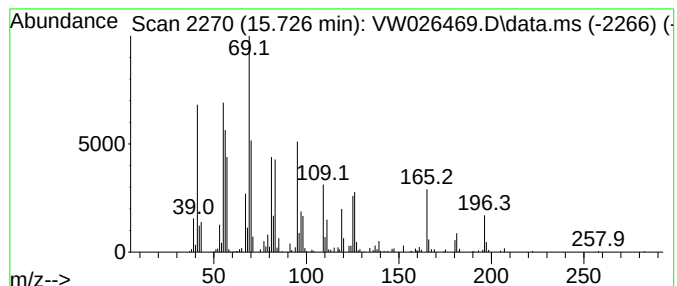
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.726 | 8.30 ug/L | 380227 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------|-----|---------|-------------|------|
| 1    |      | 6-Tridecene, 7-methyl-   | 196 | C14H28  | 024949-42-6 | 43   |
| 2    |      | Cyclopentane, pentyl-    | 140 | C10H20  | 003741-00-2 | 38   |
| 3    |      | 1-Pentene, 2,3-dimethyl- | 98  | C7H14   | 003404-72-6 | 38   |
| 4    |      | 1-Pentene, 2,3-dimethyl- | 98  | C7H14   | 003404-72-6 | 38   |
| 5    |      | Cyclopentane, ethyl-     | 98  | C7H14   | 001640-89-7 | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026469.D  
Acq On : 30 Jun 2023 13:53  
Operator : SY/MD  
Sample : 03452-15RE  
Misc : 4.77g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46P7RE

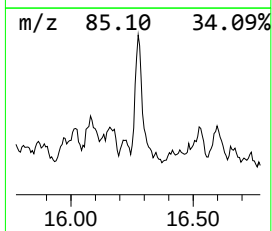
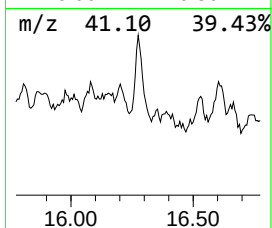
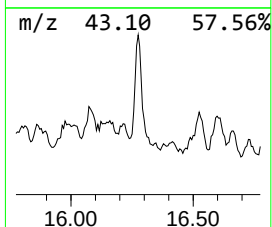
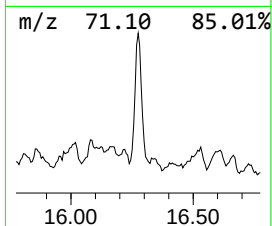
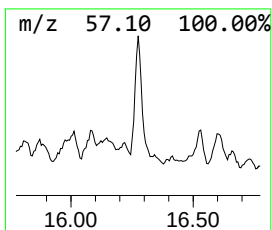
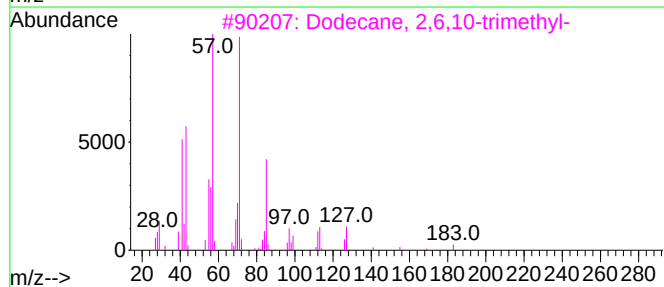
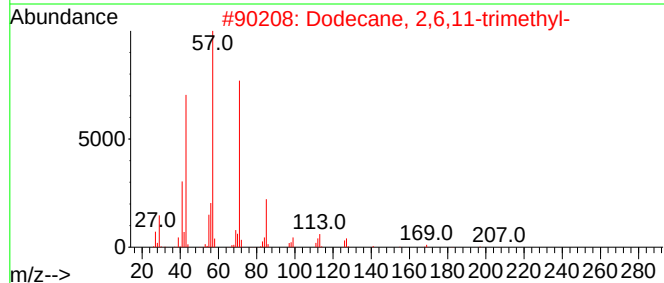
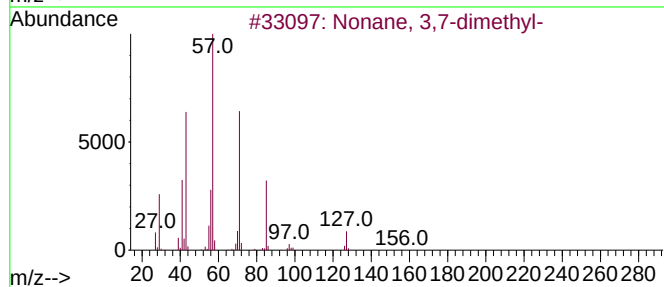
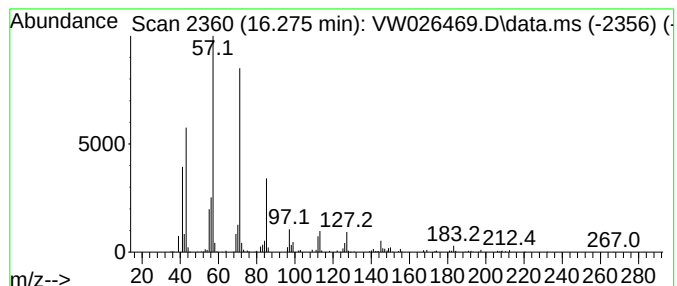
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 16.275 | 8.80 ug/L | 403249 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------|-----|---------|-------------|------|
| 1    |      | Nonane, 3,7-dimethyl-         | 156 | C11H24  | 017302-32-8 | 87   |
| 2    |      | Dodecane, 2,6,11-trimethyl-   | 212 | C15H32  | 031295-56-4 | 86   |
| 3    |      | Dodecane, 2,6,10-trimethyl-   | 212 | C15H32  | 003891-98-3 | 83   |
| 4    |      | Heptane, 2,6-dimethyl-        | 128 | C9H20   | 001072-05-5 | 74   |
| 5    |      | Octane, 3-ethyl-2,7-dimethyl- | 170 | C12H26  | 062183-55-5 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
 Data File : VW026469.D  
 Acq On : 30 Jun 2023 13:53  
 Operator : SY/MD  
 Sample : 03452-15RE  
 Misc : 4.77g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46P7RE

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

TIC Library : C:\Database\NIST0.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| (DEL) Alkane: S... | 12.361 | 2.1     | ug/L  | 199942   | 2                     | 11.629 | 2366960 | 25.0 |
| (DEL) Alkane: C... | 12.775 | 2.8     | ug/L  | 128277   | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: C... | 12.861 | 2.2     | ug/L  | 99373    | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: C... | 12.940 | 6.5     | ug/L  | 297603   | 3                     | 13.556 | 1145060 | 25.0 |
| Carbonic acid, ... | 13.074 | 1.7     | ug/L  | 76924    | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: C... | 13.123 | 1.8     | ug/L  | 81604    | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 13.166 | 1.3     | ug/L  | 57620    | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 13.288 | 2.8     | ug/L  | 127561   | 3                     | 13.556 | 1145060 | 25.0 |
| Tetradecane, 1-... | 13.342 | 2.2     | ug/L  | 101680   | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 13.409 | 1.8     | ug/L  | 81101    | 3                     | 13.556 | 1145060 | 25.0 |
| Sulfurous acid,... | 13.477 | 2.1     | ug/L  | 96914    | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: C... | 13.690 | 3.7     | ug/L  | 170346   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-01         | 13.922 | 2.3     | ug/L  | 105437   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-02         | 13.976 | 2.8     | ug/L  | 125935   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-03         | 14.062 | 2.6     | ug/L  | 120395   | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 14.190 | 2.5     | ug/L  | 115198   | 3                     | 13.556 | 1145060 | 25.0 |
| Decyl octyl ether  | 14.257 | 5.0     | ug/L  | 231285   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-04         | 14.312 | 1.7     | ug/L  | 76420    | 3                     | 13.556 | 1145060 | 25.0 |
| Naphthalene, de... | 14.379 | 9.8     | ug/L  | 446954   | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 14.495 | 5.8     | ug/L  | 266164   | 3                     | 13.556 | 1145060 | 25.0 |
| cis-Decalin, 2-... | 14.543 | 4.6     | ug/L  | 209972   | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 14.653 | 1.7     | ug/L  | 78538    | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: C... | 14.732 | 2.6     | ug/L  | 121214   | 3                     | 13.556 | 1145060 | 25.0 |
| Oxalic acid, cy... | 14.793 | 5.6     | ug/L  | 254993   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-05         | 14.848 | 6.7     | ug/L  | 307931   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-06         | 15.116 | 1.6     | ug/L  | 75063    | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: C... | 15.232 | 8.5     | ug/L  | 389660   | 3                     | 13.556 | 1145060 | 25.0 |
| Bacchotricuneat... | 15.318 | 14.2    | ug/L  | 649913   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-07         | 15.391 | 5.1     | ug/L  | 233054   | 3                     | 13.556 | 1145060 | 25.0 |
| unknown-08         | 15.561 | 3.5     | ug/L  | 161354   | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 15.726 | 8.3     | ug/L  | 380227   | 3                     | 13.556 | 1145060 | 25.0 |
| (DEL) Alkane: S... | 16.275 | 8.8     | ug/L  | 403249   | 3                     | 13.556 | 1145060 | 25.0 |