

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
 Data File : VW019136.D  
 Acq On : 04 Jun 2021 18:17  
 Operator : SY/VA  
 Sample : M2618-02  
 Misc : 6.35G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG5R1

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\SFAMWLM060221SMA.M  
 Title : SFAM01.0

Signal : TIC: VW019136.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         | 2.355       | 65            | 74          | 82           | rBV      | 62108          | 107959        | 15.40%          | 1.306%        |
| 2         | 2.495       | 93            | 97          | 106          | rBV2     | 6322           | 16634         | 2.37%           | 0.201%        |
| 3         | 2.898       | 155           | 163         | 172          | rVV      | 40162          | 94193         | 13.43%          | 1.140%        |
| 4         | 3.404       | 239           | 246         | 251          | rVV5     | 1279           | 2723          | 0.39%           | 0.033%        |
| 5         | 3.855       | 315           | 320         | 325          | rBV4     | 924            | 2148          | 0.31%           | 0.026%        |
| 6         | 4.019       | 337           | 347         | 360          | rBV      | 97157          | 261861        | 37.35%          | 3.168%        |
| 7         | 4.135       | 360           | 366         | 375          | rVV2     | 6786           | 18124         | 2.59%           | 0.219%        |
| 8         | 4.397       | 396           | 409         | 419          | rBV3     | 9585           | 31127         | 4.44%           | 0.377%        |
| 9         | 4.928       | 485           | 496         | 507          | rBV3     | 10982          | 38430         | 5.48%           | 0.465%        |
| 10        | 5.440       | 570           | 580         | 590          | rVB5     | 1632           | 5435          | 0.78%           | 0.066%        |
| 11        | 5.952       | 656           | 664         | 672          | rVB5     | 2541           | 7242          | 1.03%           | 0.088%        |
| 12        | 6.872       | 808           | 815         | 816          | rBV4     | 1704           | 2673          | 0.38%           | 0.032%        |
| 13        | 6.982       | 828           | 833         | 834          | rBV3     | 1954           | 2447          | 0.35%           | 0.030%        |
| 14        | 7.086       | 842           | 850         | 854          | rBV      | 16762          | 44467         | 6.34%           | 0.538%        |
| 15        | 7.141       | 854           | 859         | 876          | rVB      | 26603          | 78796         | 11.24%          | 0.953%        |
| 16        | 7.653       | 933           | 943         | 961          | rBV      | 121863         | 296301        | 42.26%          | 3.585%        |
| 17        | 7.939       | 981           | 990         | 1000         | rBV9     | 4800           | 15834         | 2.26%           | 0.192%        |
| 18        | 8.037       | 1000          | 1006        | 1013         | rVB5     | 5161           | 12071         | 1.72%           | 0.146%        |
| 19        | 8.159       | 1018          | 1026        | 1033         | rBV3     | 6290           | 14871         | 2.12%           | 0.180%        |
| 20        | 8.281       | 1035          | 1046        | 1061         | rBV2     | 235619         | 701106        | 100.00%         | 8.483%        |
| 21        | 8.482       | 1064          | 1079        | 1090         | rBV2     | 20483          | 58230         | 8.31%           | 0.705%        |
| 22        | 8.579       | 1090          | 1095        | 1099         | rVB4     | 1686           | 2995          | 0.43%           | 0.036%        |
| 23        | 8.701       | 1107          | 1115        | 1119         | rBV4     | 5306           | 12134         | 1.73%           | 0.147%        |
| 24        | 8.848       | 1130          | 1139        | 1151         | rBV      | 221354         | 454655        | 64.85%          | 5.501%        |
| 25        | 9.079       | 1167          | 1177        | 1182         | rBV3     | 7546           | 17668         | 2.52%           | 0.214%        |
| 26        | 9.116       | 1182          | 1183        | 1193         | rVB5     | 2419           | 4001          | 0.57%           | 0.048%        |
| 27        | 9.274       | 1201          | 1209        | 1216         | rBV      | 151644         | 321931        | 45.92%          | 3.895%        |
| 28        | 9.335       | 1216          | 1219        | 1224         | rVV3     | 12076          | 20964         | 2.99%           | 0.254%        |
| 29        | 9.384       | 1224          | 1227        | 1236         | rVB6     | 6095           | 11177         | 1.59%           | 0.135%        |
| 30        | 9.470       | 1236          | 1241        | 1244         | rBV3     | 1258           | 2386          | 0.34%           | 0.029%        |
| 31        | 9.518       | 1244          | 1249        | 1255         | rVB4     | 3133           | 5593          | 0.80%           | 0.068%        |
| 32        | 9.604       | 1261          | 1263        | 1270         | rVB5     | 2677           | 4685          | 0.67%           | 0.057%        |
| 33        | 9.683       | 1270          | 1276        | 1278         | rBV4     | 1136           | 2587          | 0.37%           | 0.031%        |
| 34        | 9.762       | 1282          | 1289        | 1297         | rVB      | 16664          | 32872         | 4.69%           | 0.398%        |
| 35        | 9.860       | 1299          | 1305        | 1306         | rBV2     | 6303           | 10503         | 1.50%           | 0.127%        |
| 36        | 9.896       | 1306          | 1311        | 1317         | rVB2     | 19821          | 37948         | 5.41%           | 0.459%        |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG5R1

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\SFAMWLM060221SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 9.957  | 1317 | 1321 | 1325 | rBV3 | 8168   | 14250  | 2.03%  | 0.172% |
| 38 | 10.037 | 1328 | 1334 | 1340 | rVV  | 76664  | 136741 | 19.50% | 1.655% |
| 39 | 10.097 | 1340 | 1344 | 1356 | rVB4 | 12848  | 29876  | 4.26%  | 0.361% |
| 40 | 10.207 | 1357 | 1362 | 1365 | rBV5 | 4362   | 8393   | 1.20%  | 0.102% |
| 41 | 10.250 | 1365 | 1369 | 1374 | rVB2 | 8355   | 13511  | 1.93%  | 0.163% |
| 42 | 10.323 | 1374 | 1381 | 1390 | rBV  | 269406 | 495773 | 70.71% | 5.999% |
| 43 | 10.506 | 1404 | 1411 | 1417 | rVB5 | 14634  | 30024  | 4.28%  | 0.363% |
| 44 | 10.579 | 1417 | 1423 | 1434 | rVB  | 52407  | 91673  | 13.08% | 1.109% |
| 45 | 10.707 | 1434 | 1444 | 1448 | rBV  | 25664  | 53950  | 7.69%  | 0.653% |
| 46 | 10.847 | 1462 | 1467 | 1472 | rVB5 | 5306   | 10101  | 1.44%  | 0.122% |
| 47 | 10.927 | 1474 | 1480 | 1487 | rBV  | 68354  | 121737 | 17.36% | 1.473% |
| 48 | 10.994 | 1487 | 1491 | 1493 | rBV5 | 2119   | 2795   | 0.40%  | 0.034% |
| 49 | 11.061 | 1494 | 1502 | 1506 | rVV6 | 7527   | 18719  | 2.67%  | 0.226% |
| 50 | 11.140 | 1512 | 1515 | 1518 | rBV5 | 2292   | 2676   | 0.38%  | 0.032% |
| 51 | 11.177 | 1518 | 1521 | 1525 | rVB4 | 3570   | 5094   | 0.73%  | 0.062% |
| 52 | 11.231 | 1526 | 1530 | 1534 | rVB5 | 4733   | 7790   | 1.11%  | 0.094% |
| 53 | 11.292 | 1534 | 1540 | 1543 | rBV8 | 2773   | 4655   | 0.66%  | 0.056% |
| 54 | 11.341 | 1544 | 1548 | 1551 | rVB3 | 4711   | 6777   | 0.97%  | 0.082% |
| 55 | 11.414 | 1551 | 1560 | 1561 | rBV2 | 18778  | 33151  | 4.73%  | 0.401% |
| 56 | 11.512 | 1572 | 1576 | 1585 | rBV  | 16127  | 28569  | 4.07%  | 0.346% |
| 57 | 11.634 | 1588 | 1596 | 1604 | rBV  | 235442 | 402355 | 57.39% | 4.868% |
| 58 | 11.731 | 1608 | 1612 | 1616 | rVB7 | 4205   | 6775   | 0.97%  | 0.082% |
| 59 | 11.841 | 1621 | 1630 | 1633 | rBV4 | 16368  | 33387  | 4.76%  | 0.404% |
| 60 | 11.914 | 1640 | 1642 | 1646 | rVB5 | 3442   | 4319   | 0.62%  | 0.052% |
| 61 | 12.067 | 1663 | 1667 | 1672 | rVB6 | 4377   | 6535   | 0.93%  | 0.079% |
| 62 | 12.140 | 1673 | 1679 | 1681 | rBV5 | 10484  | 20284  | 2.89%  | 0.245% |
| 63 | 12.164 | 1681 | 1683 | 1690 | rVB2 | 14221  | 25186  | 3.59%  | 0.305% |
| 64 | 12.250 | 1690 | 1697 | 1702 | rVB2 | 11539  | 21301  | 3.04%  | 0.258% |
| 65 | 12.335 | 1704 | 1711 | 1713 | rBV6 | 8560   | 16469  | 2.35%  | 0.199% |
| 66 | 12.469 | 1727 | 1733 | 1737 | rBV3 | 16796  | 33317  | 4.75%  | 0.403% |
| 67 | 12.536 | 1737 | 1744 | 1747 | rVV5 | 15871  | 41546  | 5.93%  | 0.503% |
| 68 | 12.603 | 1747 | 1755 | 1760 | rVV5 | 49791  | 139168 | 19.85% | 1.684% |
| 69 | 12.652 | 1760 | 1763 | 1765 | rVV  | 19546  | 26363  | 3.76%  | 0.319% |
| 70 | 12.695 | 1765 | 1770 | 1776 | rVB  | 99909  | 166331 | 23.72% | 2.013% |
| 71 | 12.756 | 1776 | 1780 | 1782 | rBV4 | 10183  | 14817  | 2.11%  | 0.179% |
| 72 | 12.804 | 1783 | 1788 | 1794 | rVB  | 27123  | 47700  | 6.80%  | 0.577% |
| 73 | 12.932 | 1804 | 1809 | 1822 | rVB6 | 36920  | 91544  | 13.06% | 1.108% |
| 74 | 13.103 | 1829 | 1837 | 1838 | rBV3 | 21533  | 39603  | 5.65%  | 0.479% |
| 75 | 13.164 | 1844 | 1847 | 1849 | rBV3 | 27662  | 37458  | 5.34%  | 0.453% |
| 76 | 13.195 | 1849 | 1852 | 1856 | rVB  | 35404  | 47431  | 6.77%  | 0.574% |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG5R1

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\SFAMWLM060221SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 13.298 | 1864 | 1869 | 1874 | rBV  | 41824  | 69697  | 9.94%  | 0.843% |
| 78  | 13.347 | 1874 | 1877 | 1878 | rBV2 | 9822   | 10698  | 1.53%  | 0.129% |
| 79  | 13.408 | 1880 | 1887 | 1891 | rVV2 | 55591  | 98111  | 13.99% | 1.187% |
| 80  | 13.481 | 1896 | 1899 | 1902 | rVV  | 38344  | 48840  | 6.97%  | 0.591% |
| 81  | 13.518 | 1902 | 1905 | 1907 | rVV2 | 35364  | 41463  | 5.91%  | 0.502% |
| 82  | 13.554 | 1907 | 1911 | 1915 | rVV2 | 156141 | 235736 | 33.62% | 2.852% |
| 83  | 13.615 | 1915 | 1921 | 1929 | rVB4 | 100305 | 282857 | 40.34% | 3.422% |
| 84  | 13.719 | 1932 | 1938 | 1942 | rBV2 | 53094  | 105343 | 15.03% | 1.275% |
| 85  | 13.768 | 1942 | 1946 | 1948 | rBV3 | 32160  | 43808  | 6.25%  | 0.530% |
| 86  | 13.798 | 1948 | 1951 | 1954 | rBV  | 30552  | 37308  | 5.32%  | 0.451% |
| 87  | 13.853 | 1956 | 1960 | 1968 | rVV3 | 84514  | 213584 | 30.46% | 2.584% |
| 88  | 13.950 | 1973 | 1976 | 1979 | rVB2 | 35961  | 44880  | 6.40%  | 0.543% |
| 89  | 14.030 | 1984 | 1989 | 1993 | rBV5 | 56711  | 99227  | 14.15% | 1.201% |
| 90  | 14.091 | 1993 | 1999 | 2003 | rBV5 | 75630  | 146196 | 20.85% | 1.769% |
| 91  | 14.200 | 2012 | 2017 | 2022 | rBV4 | 79144  | 166091 | 23.69% | 2.010% |
| 92  | 14.261 | 2022 | 2027 | 2034 | rVV8 | 66797  | 154234 | 22.00% | 1.866% |
| 93  | 14.347 | 2036 | 2041 | 2044 | rVV3 | 63405  | 134019 | 19.12% | 1.622% |
| 94  | 14.389 | 2044 | 2048 | 2050 | rVV3 | 114464 | 188000 | 26.81% | 2.275% |
| 95  | 14.420 | 2051 | 2053 | 2061 | rVB5 | 107930 | 155020 | 22.11% | 1.876% |
| 96  | 14.499 | 2061 | 2066 | 2077 | rBV5 | 150202 | 415161 | 59.22% | 5.023% |
| 97  | 14.639 | 2086 | 2089 | 2094 | rVB2 | 38415  | 57709  | 8.23%  | 0.698% |
| 98  | 14.792 | 2110 | 2114 | 2119 | rBV6 | 50719  | 132885 | 18.95% | 1.608% |
| 99  | 15.060 | 2153 | 2158 | 2165 | rBV6 | 84944  | 189791 | 27.07% | 2.296% |
| 100 | 15.322 | 2197 | 2201 | 2209 | rVB4 | 58781  | 101132 | 14.42% | 1.224% |

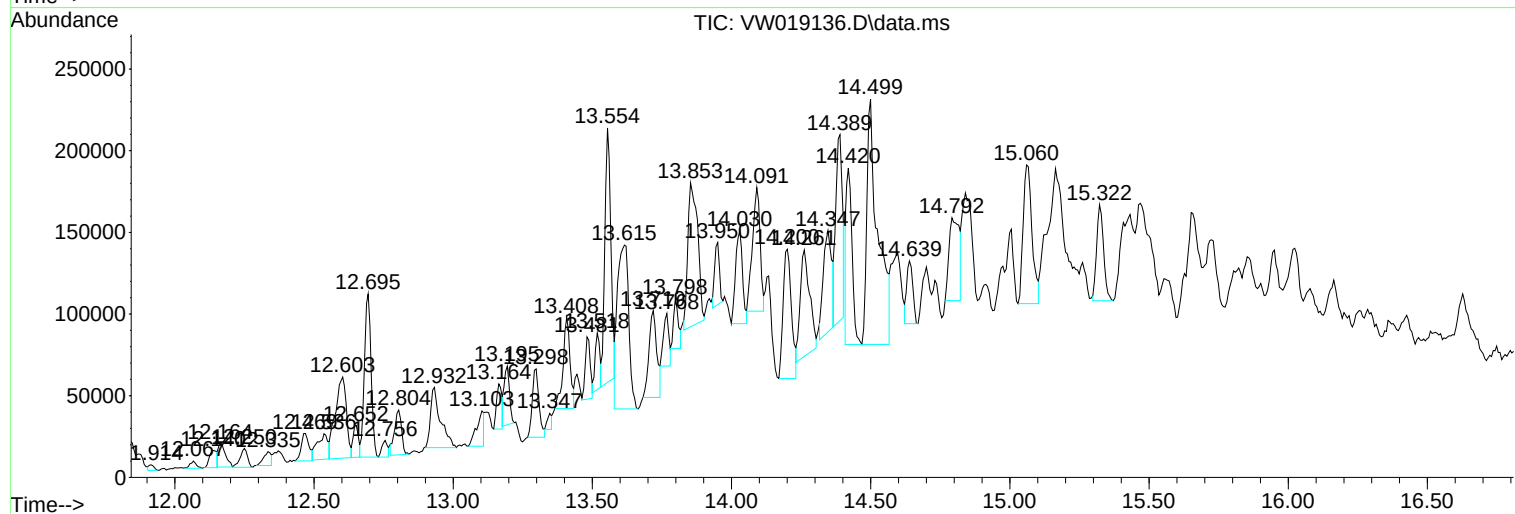
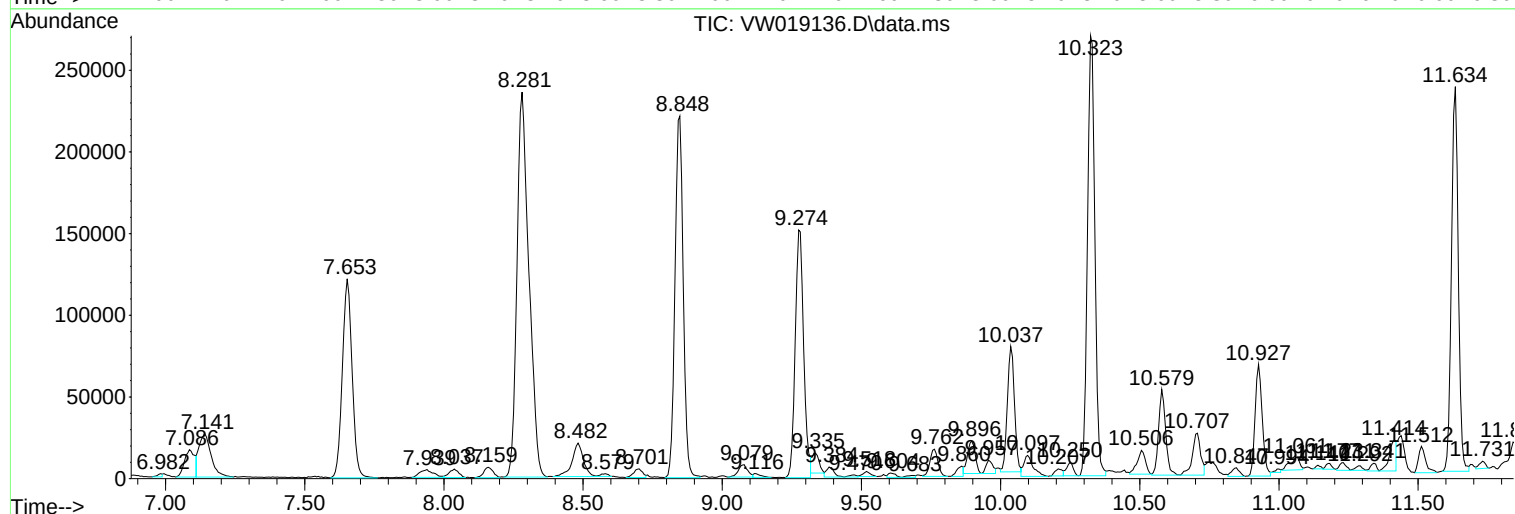
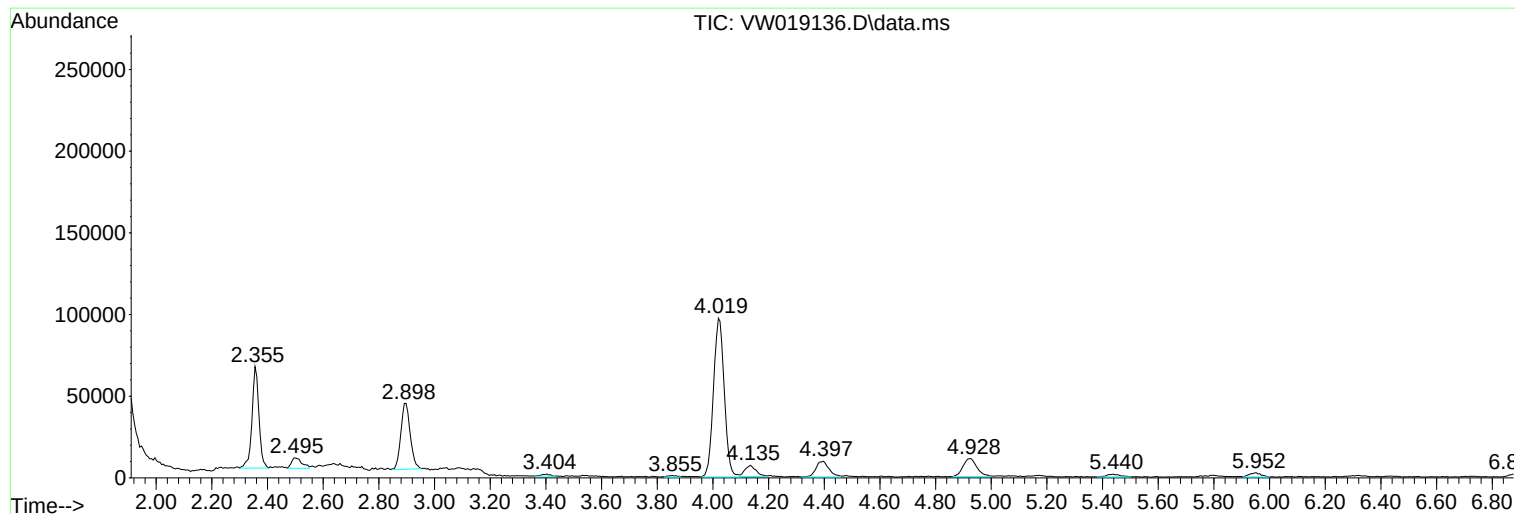
Sum of corrected areas: 8264705

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Misc : 6.35G/10ML/MSVOA\_W/SOIL  
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Instrument :  
MSVOA\_W  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
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Sample : M2618-02  
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Instrument :  
MSVOA\_W  
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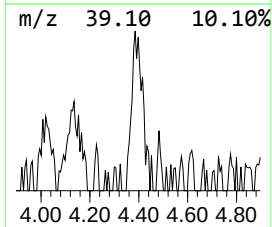
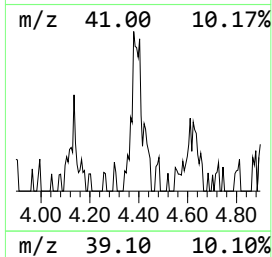
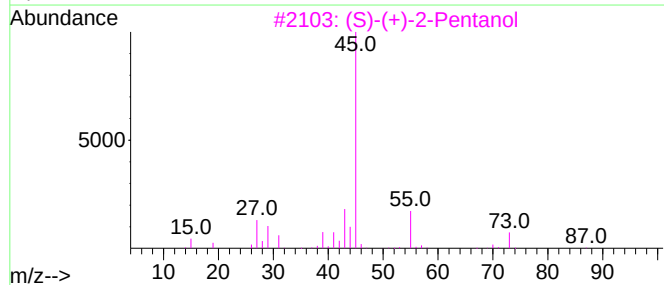
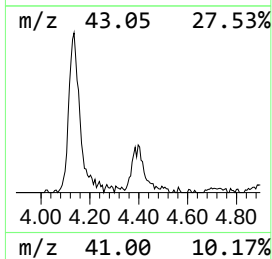
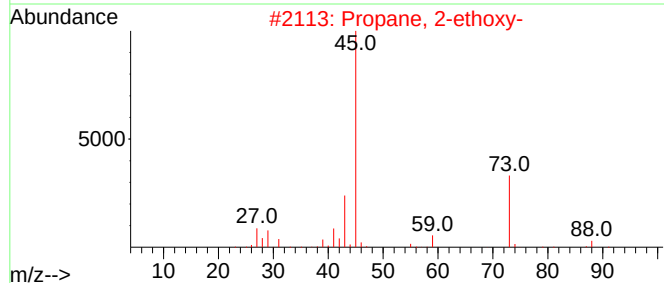
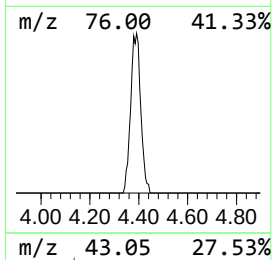
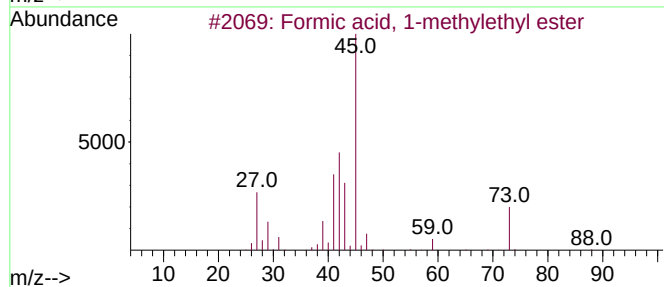
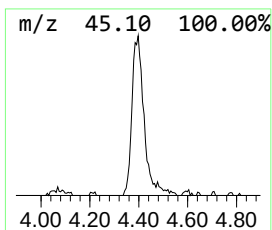
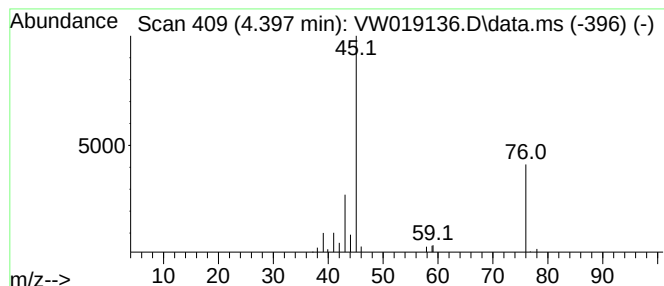
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 38

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 4.397 | 1.71 ug/L | 31127 | 1,4-Difluorobenzene | 8.848 |

| Hit# | of | 5 | Tentative ID                     | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|----|---------|-------------|------|
| 1    |    |   | Formic acid, 1-methylethyl ester | 88 | C4H8O2  | 000625-55-8 | 28   |
| 2    |    |   | Propane, 2-ethoxy-               | 88 | C5H12O  | 000625-54-7 | 28   |
| 3    |    |   | (S)-(+)-2-Pentanol               | 88 | C5H12O  | 026184-62-3 | 28   |
| 4    |    |   | Propane, 2-ethoxy-               | 88 | C5H12O  | 000625-54-7 | 28   |
| 5    |    |   | Propane, 2-ethoxy-               | 88 | C5H12O  | 000625-54-7 | 9    |



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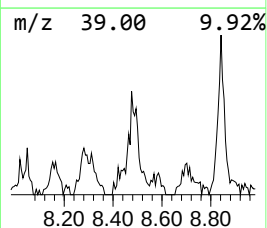
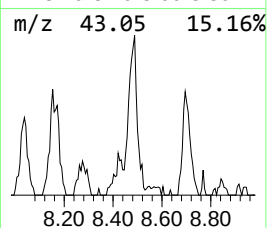
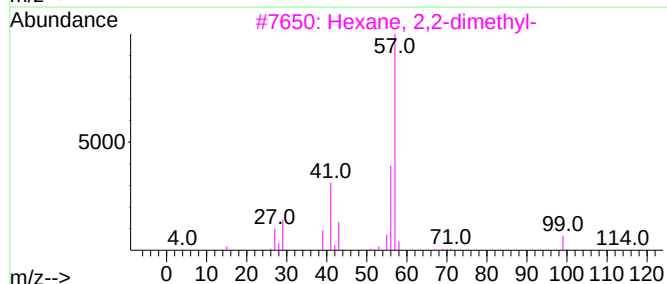
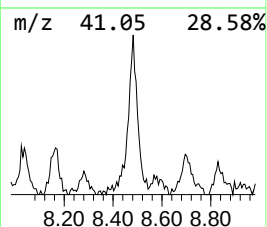
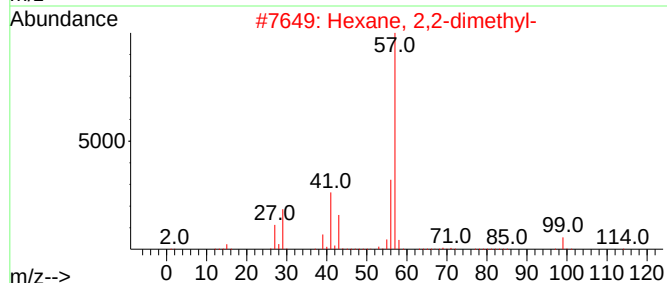
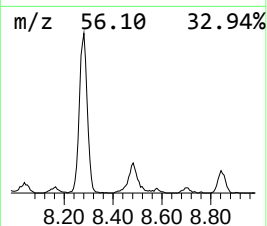
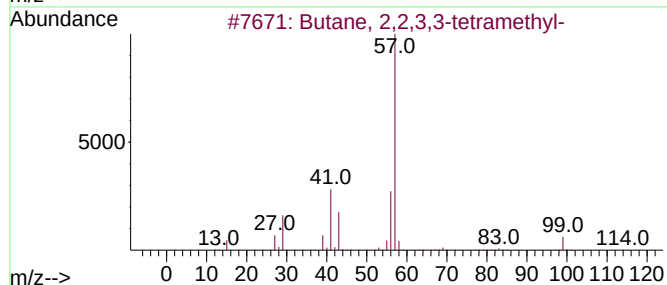
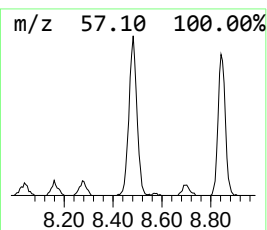
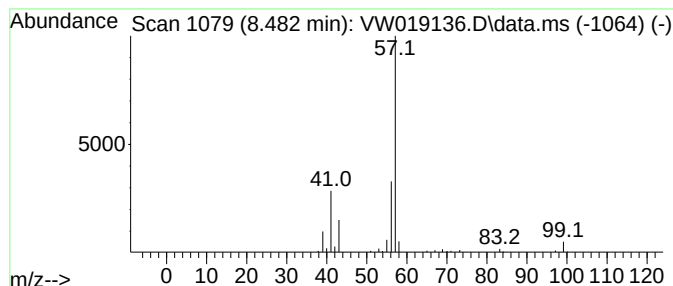
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 8.482 | 3.20 ug/L | 58230 | 1,4-Difluorobenzene | 8.848 |

| Hit# | of 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------|-----|---------|-------------|------|
| 1    |      | Butane, 2,2,3,3-tetramethyl-  | 114 | C8H18   | 000594-82-1 | 72   |
| 2    |      | Hexane, 2,2-dimethyl-         | 114 | C8H18   | 000590-73-8 | 72   |
| 3    |      | Hexane, 2,2-dimethyl-         | 114 | C8H18   | 000590-73-8 | 72   |
| 4    |      | Pentane, 2,2,4-trimethyl-     | 114 | C8H18   | 000540-84-1 | 72   |
| 5    |      | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20   | 001070-87-7 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

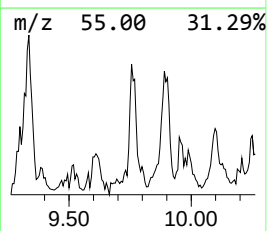
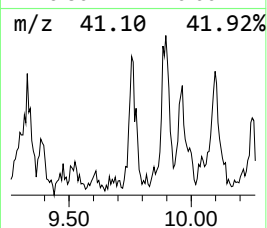
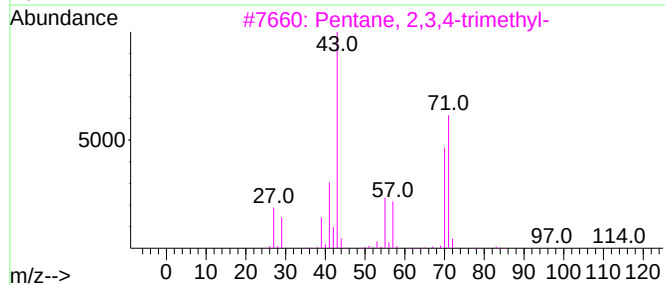
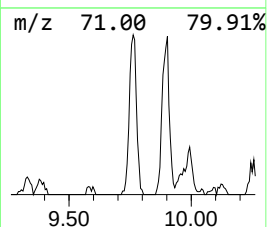
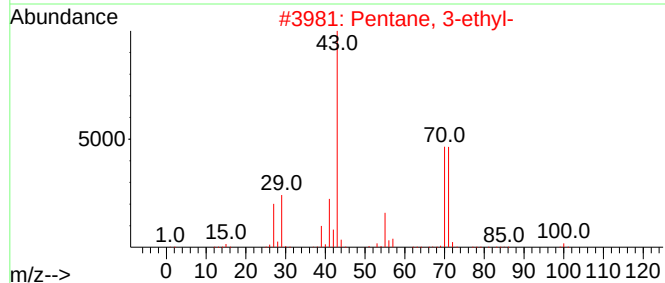
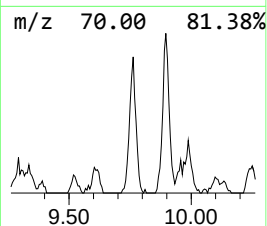
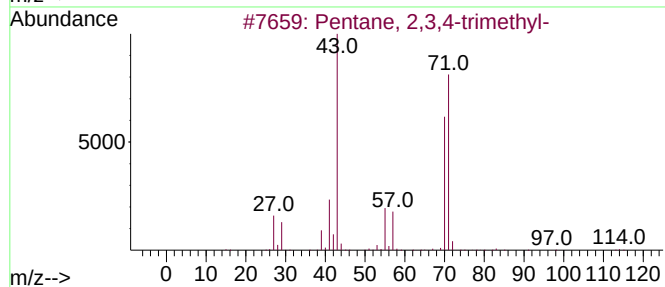
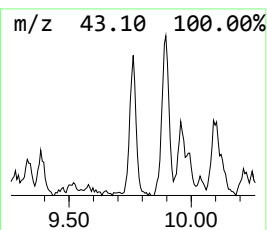
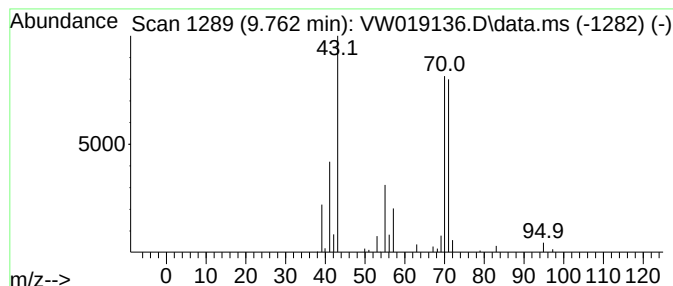
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 9.762 | 1.81 ug/L | 32872 | 1,4-Difluorobenzene | 8.848 |

| Hit# of 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|-----------|---------------------------|-----|---------|-------------|------|
| 1         | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 78   |
| 2         | Pentane, 3-ethyl-         | 100 | C7H16   | 000617-78-7 | 78   |
| 3         | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 78   |
| 4         | Decane, 3,3,4-trimethyl-  | 184 | C13H28  | 049622-18-6 | 64   |
| 5         | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

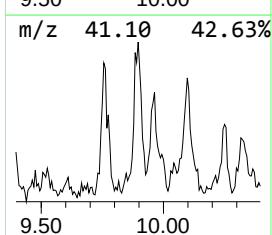
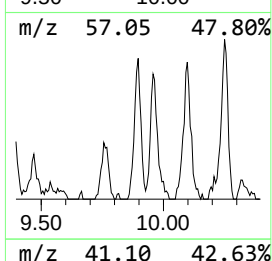
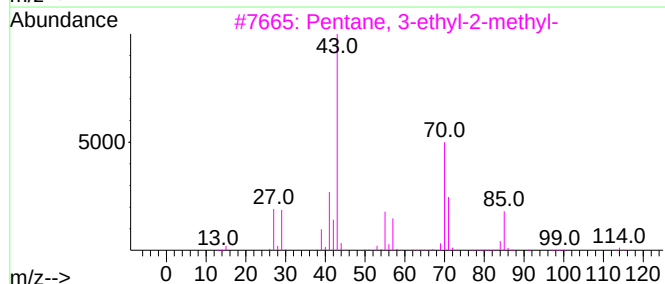
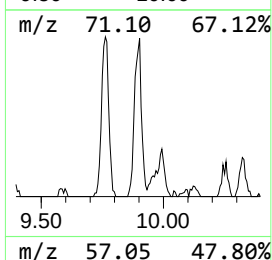
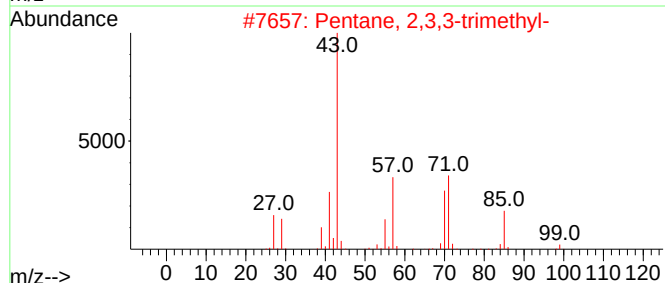
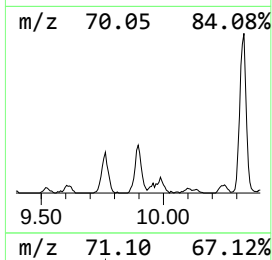
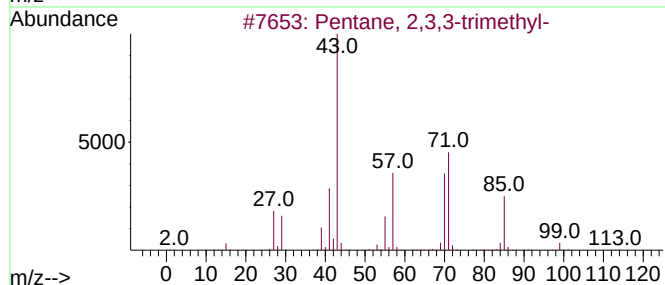
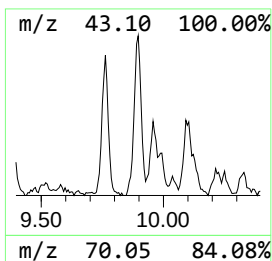
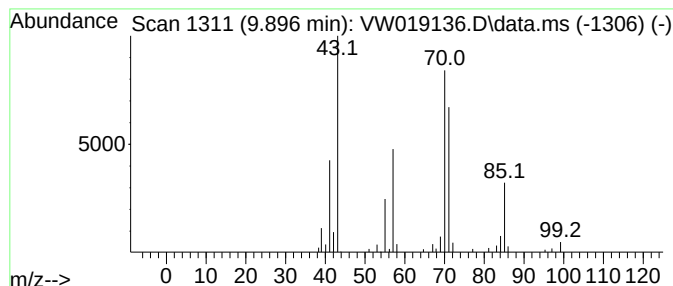
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 9.896 | 2.09 ug/L | 37948 | 1,4-Difluorobenzene | 8.848 |

| Hit# of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|-----------|----------------------------|-----|---------|-------------|------|
| 1         | Pentane, 2,3,3-trimethyl-  | 114 | C8H18   | 000560-21-4 | 64   |
| 2         | Pentane, 2,3,3-trimethyl-  | 114 | C8H18   | 000560-21-4 | 59   |
| 3         | Pentane, 3-ethyl-2-methyl- | 114 | C8H18   | 000609-26-7 | 56   |
| 4         | Hexane, 2,3-dimethyl-      | 114 | C8H18   | 000584-94-1 | 50   |
| 5         | Hexane, 3,3-dimethyl-      | 114 | C8H18   | 000563-16-6 | 47   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

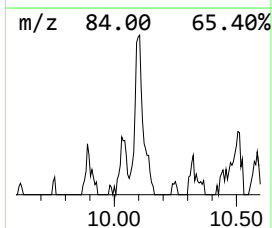
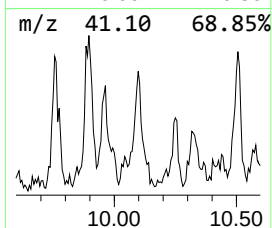
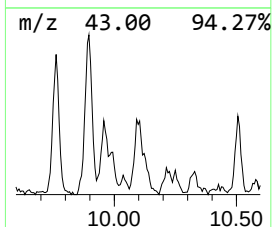
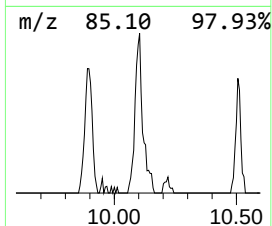
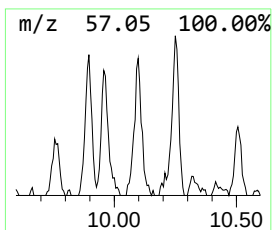
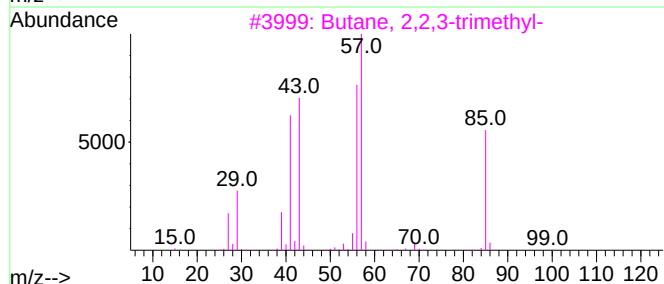
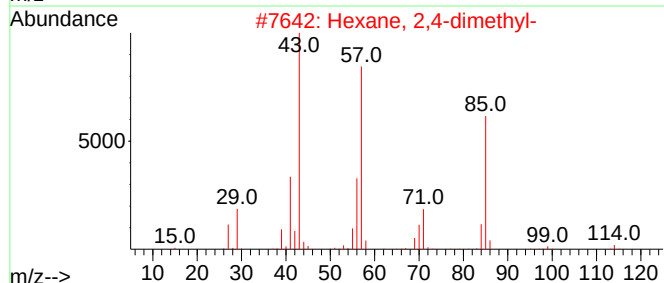
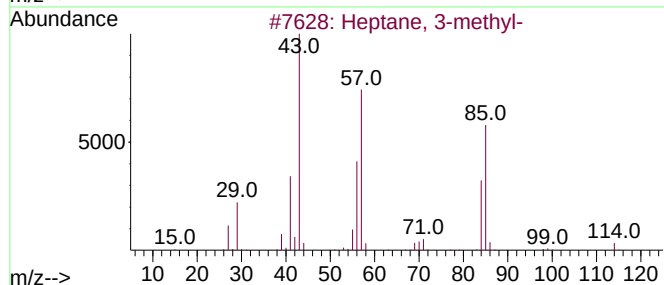
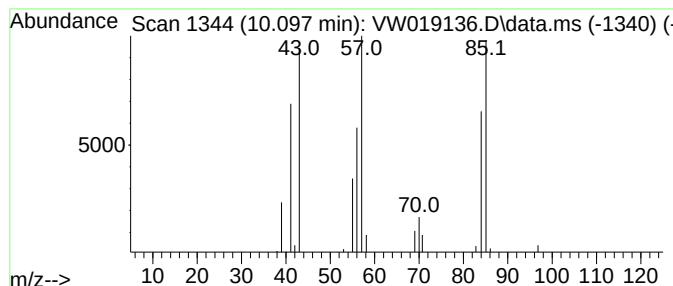
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 39

| R.T.   | EstConc   | Area  | Relative to ISTD    | R.T.  |
|--------|-----------|-------|---------------------|-------|
| 10.098 | 1.64 ug/L | 29876 | 1,4-Difluorobenzene | 8.848 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Heptane, 3-methyl-                | 114 | C8H18    | 000589-81-1  | 78   |
| 2    |    |   | Hexane, 2,4-dimethyl-             | 114 | C8H18    | 000589-43-5  | 50   |
| 3    |    |   | Butane, 2,2,3-trimethyl-          | 100 | C7H16    | 000464-06-2  | 40   |
| 4    |    |   | Pentane, 2,2,3,4-tetramethyl-     | 128 | C9H20    | 001186-53-4  | 38   |
| 5    |    |   | Oxalic acid, butyl isohexyl ester | 230 | C12H22O4 | 1000309-32-7 | 36   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

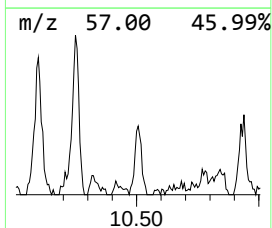
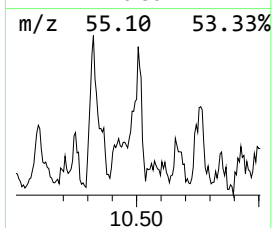
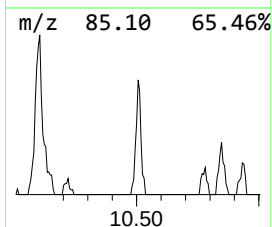
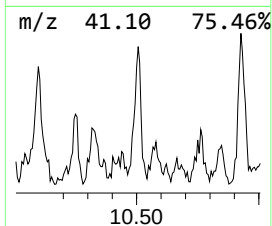
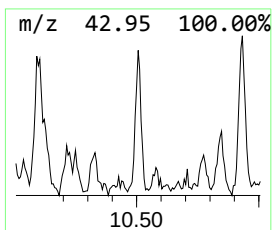
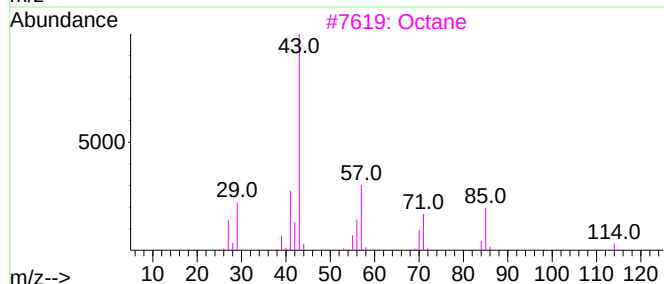
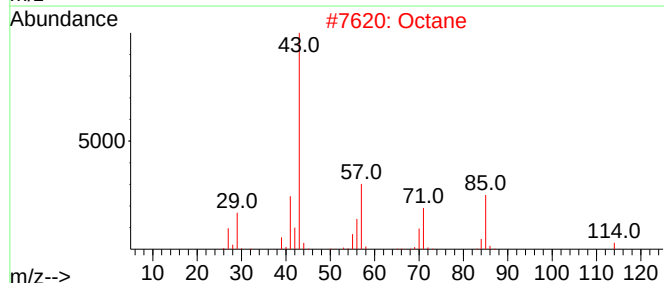
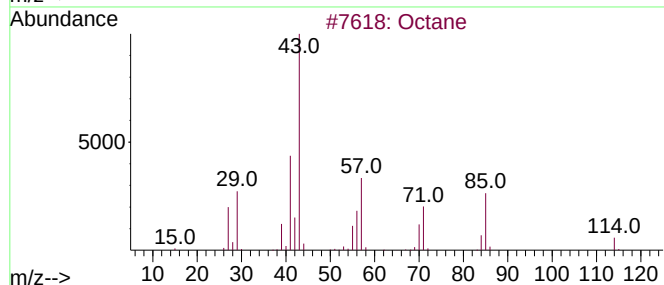
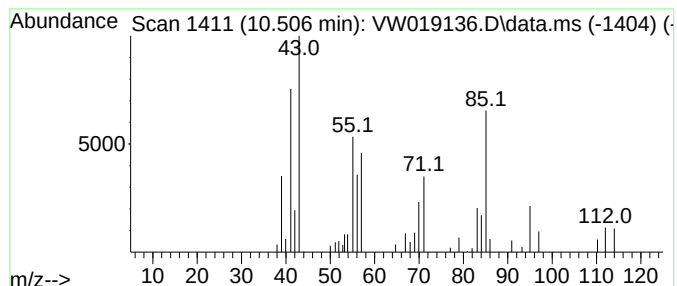
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Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 35

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 10.506 | 1.87 ug/L | 30024 | Chlorobenzene-d5 | 11.634 |

| Hit# | of                     | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------------------------|---|--------------|-----|---------|-------------|------|
| 1    | Octane                 |   |              | 114 | C8H18   | 000111-65-9 | 64   |
| 2    | Octane                 |   |              | 114 | C8H18   | 000111-65-9 | 52   |
| 3    | Octane                 |   |              | 114 | C8H18   | 000111-65-9 | 47   |
| 4    | Hexane, 2,4-dimethyl-  |   |              | 114 | C8H18   | 000589-43-5 | 43   |
| 5    | Heptane, 2,4-dimethyl- |   |              | 128 | C9H20   | 002213-23-2 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

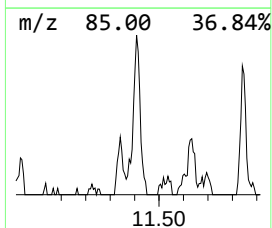
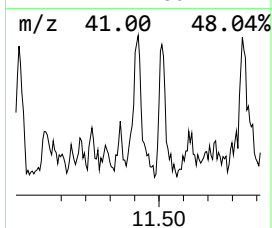
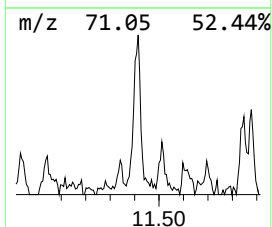
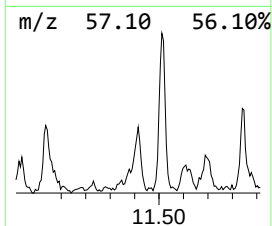
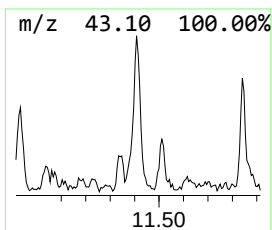
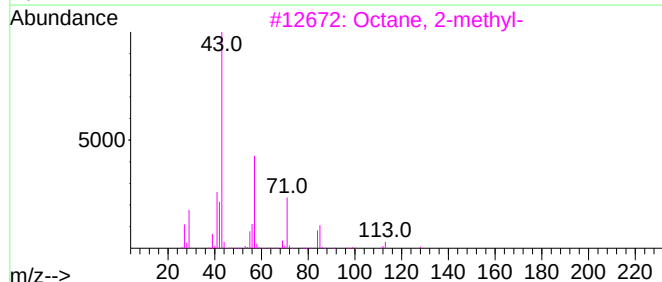
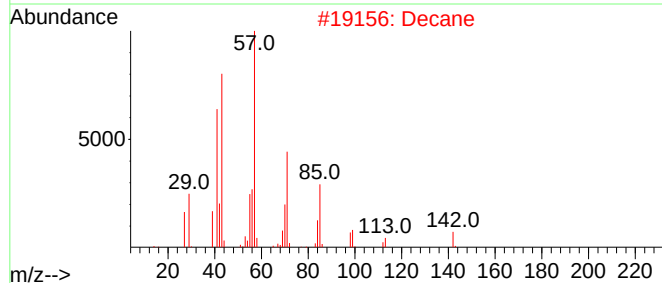
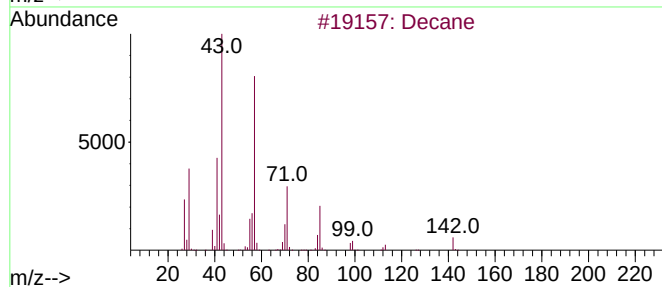
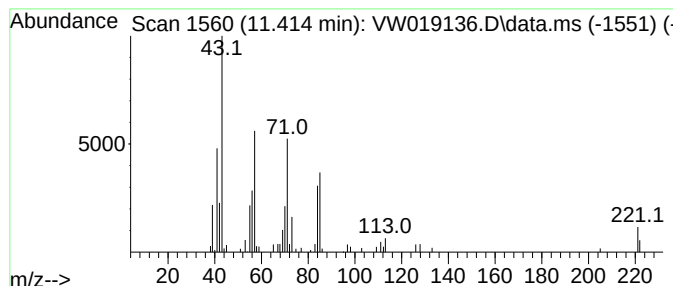
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Quant Title : SFAM01.0

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

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 34

| R.T.      | EstConc           | Area  | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------|-------|------------------|---------|-------------|------|
| 11.414    | 2.06 ug/L         | 33151 | Chlorobenzene-d5 |         | 11.634      |      |
| Hit# of 5 | Tentative ID      |       | MW               | MolForm | CAS#        | Qual |
| 1         | Decane            |       | 142              | C10H22  | 000124-18-5 | 59   |
| 2         | Decane            |       | 142              | C10H22  | 000124-18-5 | 59   |
| 3         | Octane, 2-methyl- |       | 128              | C9H20   | 003221-61-2 | 53   |
| 4         | Octane, 2-methyl- |       | 128              | C9H20   | 003221-61-2 | 52   |
| 5         | Octane, 2-methyl- |       | 128              | C9H20   | 003221-61-2 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

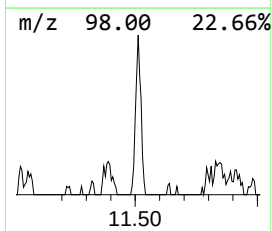
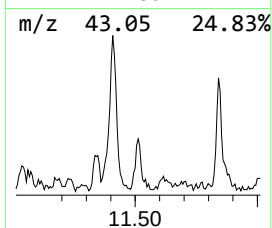
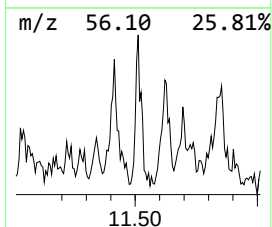
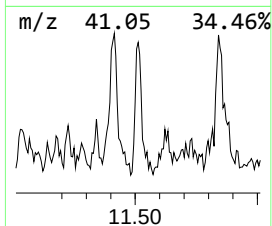
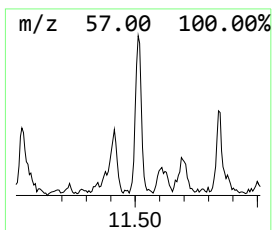
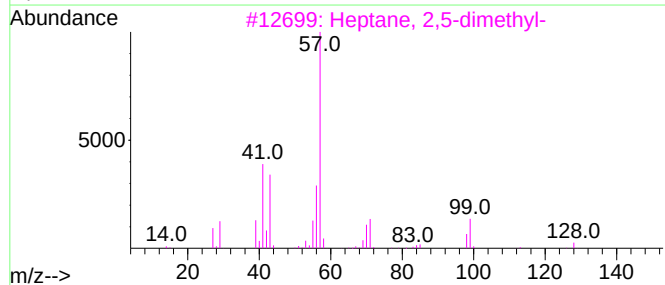
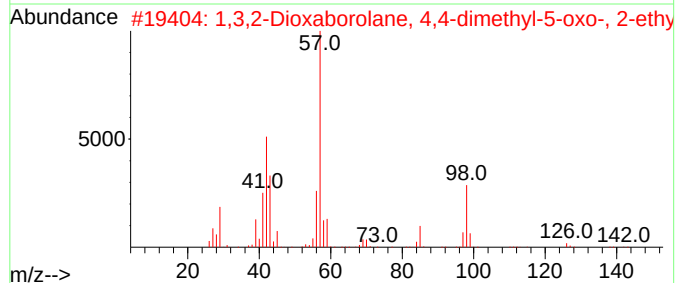
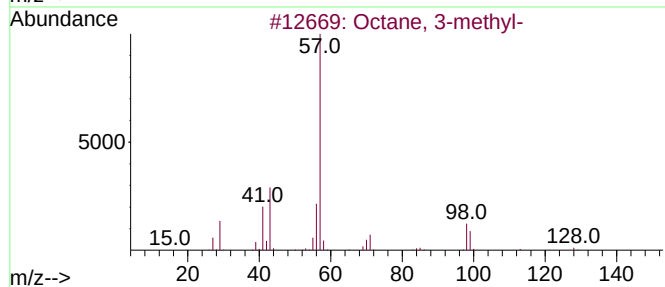
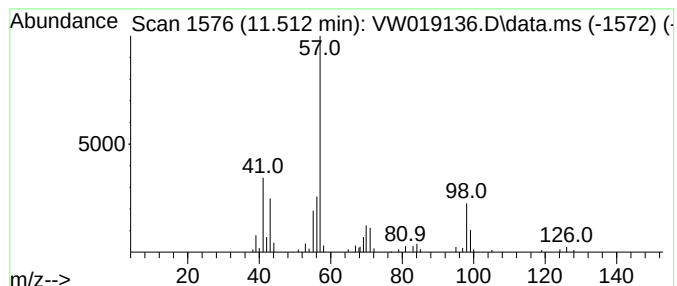
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Quant Title : SFAM01.0

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

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Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 11.512    | 1.78 ug/L                           | 28569 | Chlorobenzene-d5 | 11.634       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | Octane, 3-methyl-                   | 128   | C9H20            | 002216-33-3  | 64   |
| 2         | 1,3,2-Dioxaborolane, 4,4-dimethy... | 142   | C6H11B03         | 1000063-89-2 | 59   |
| 3         | Heptane, 2,5-dimethyl-              | 128   | C9H20            | 002216-30-0  | 59   |
| 4         | Hexane, 4-ethyl-2-methyl-           | 128   | C9H20            | 003074-75-7  | 52   |
| 5         | Heptane, 3-ethyl-                   | 128   | C9H20            | 015869-80-4  | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

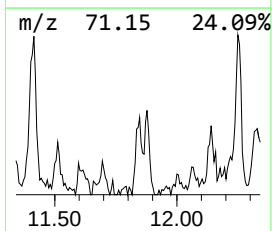
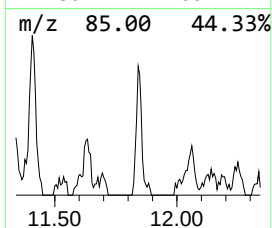
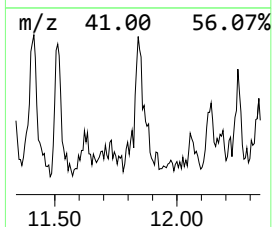
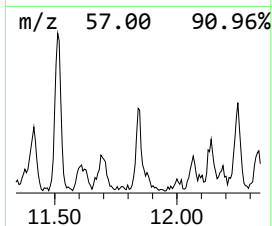
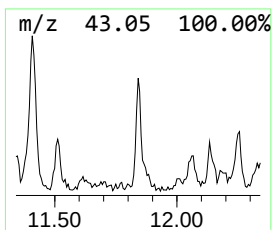
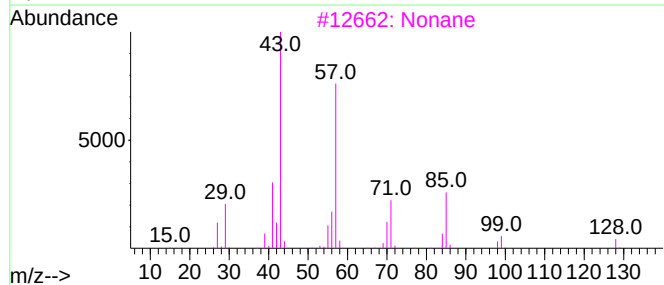
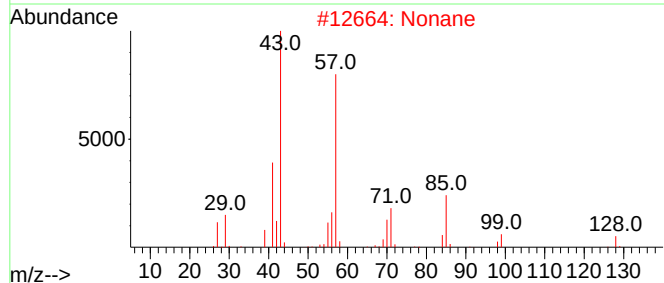
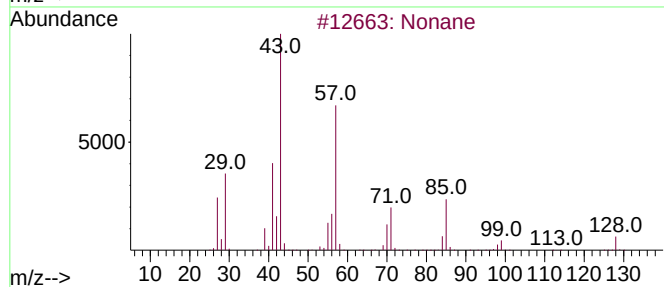
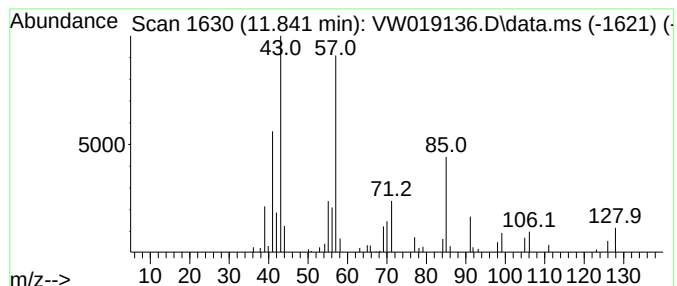
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 33

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 11.841 | 2.07 ug/L | 33387 | Chlorobenzene-d5 | 11.634 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Nonane                              | 128 | C9H20     | 000111-84-2  | 70   |
| 2    |    |   | Nonane                              | 128 | C9H20     | 000111-84-2  | 52   |
| 3    |    |   | Nonane                              | 128 | C9H20     | 000111-84-2  | 50   |
| 4    |    |   | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 50   |
| 5    |    |   | Sulfurous acid, hexyl pentadecyl... | 376 | C21H44O3S | 1000309-13-7 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

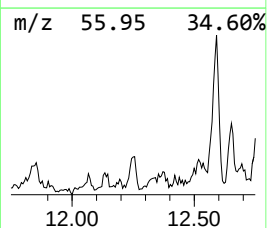
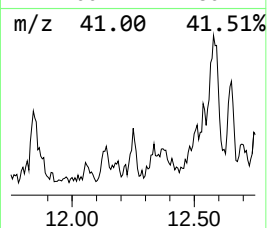
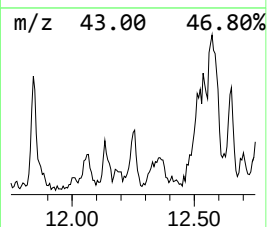
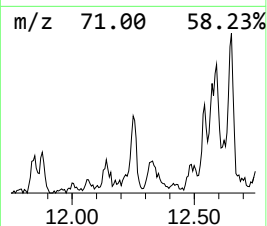
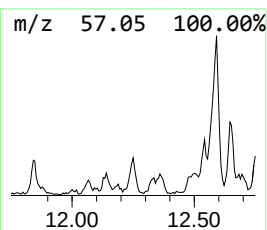
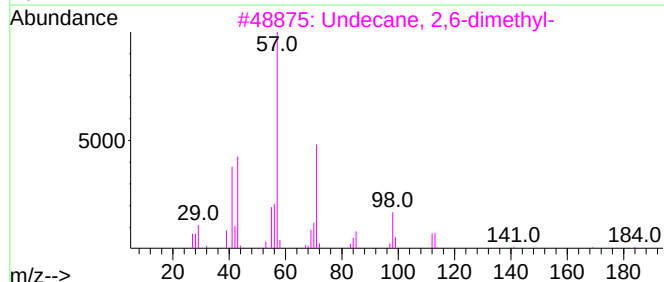
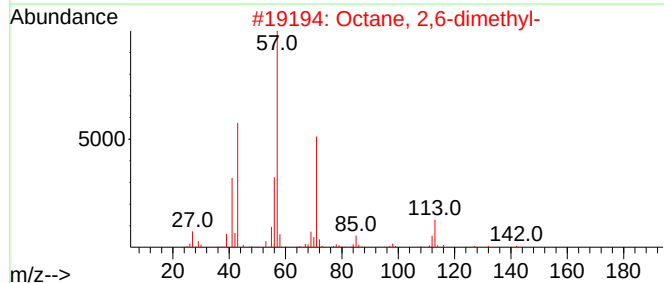
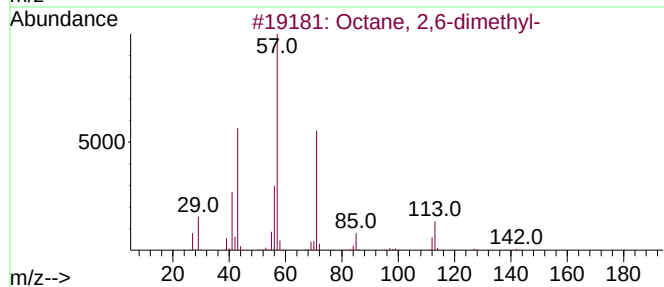
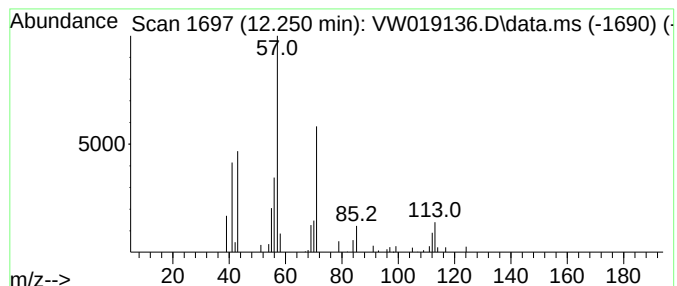
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Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 41

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 12.249 | 1.32 ug/L | 21301 | Chlorobenzene-d5 | 11.634 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Octane, 2,6-dimethyl-   | 142 | C10H22  | 002051-30-1 | 78   |
| 2    |      | Octane, 2,6-dimethyl-   | 142 | C10H22  | 002051-30-1 | 78   |
| 3    |      | Undecane, 2,6-dimethyl- | 184 | C13H28  | 017301-23-4 | 78   |
| 4    |      | Nonane, 3-methyl-       | 142 | C10H22  | 005911-04-6 | 72   |
| 5    |      | Octane, 2,6-dimethyl-   | 142 | C10H22  | 002051-30-1 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

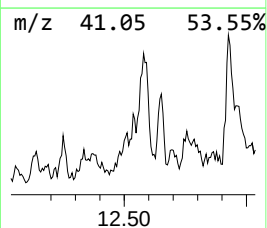
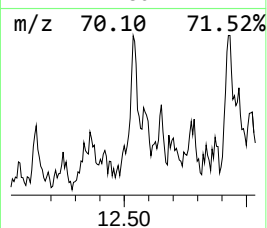
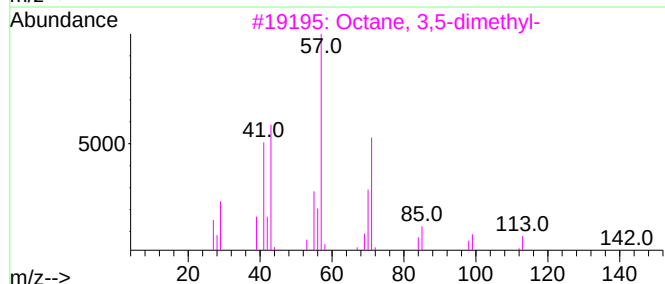
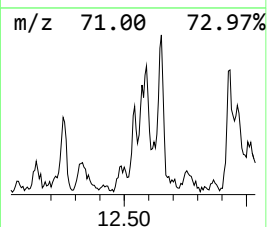
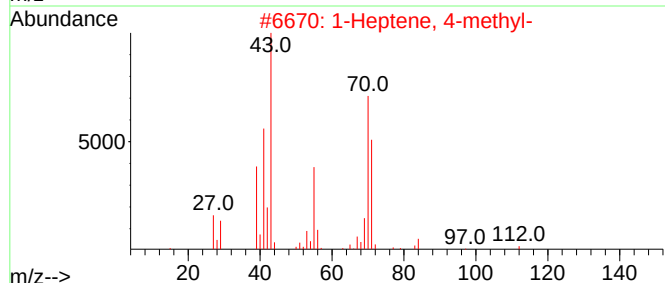
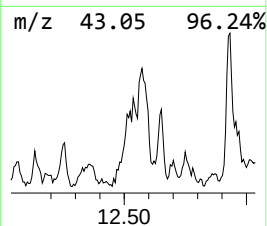
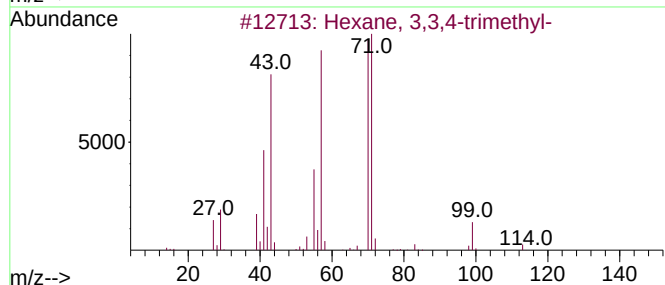
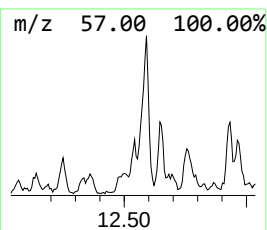
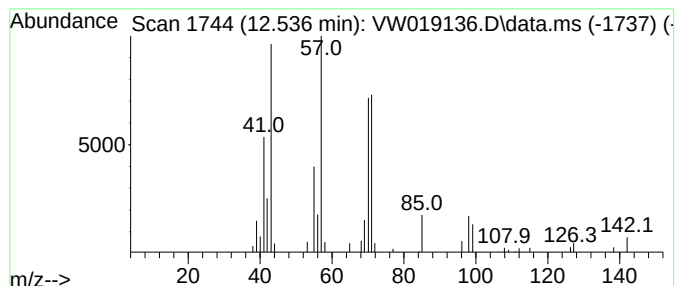
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Quant Title : SFAM01.0

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

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Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 31

| R.T.      | EstConc                             | Area  | Relative to ISTD |           | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|-----------|--------------|------|
| 12.536    | 2.58 ug/L                           | 41546 | Chlorobenzene-d5 |           | 11.634       |      |
| Hit# of 5 | Tentative ID                        |       | MW               | MolForm   | CAS#         | Qual |
| 1         | Hexane, 3,3,4-trimethyl-            |       | 128              | C9H20     | 016747-31-2  | 53   |
| 2         | 1-Heptene, 4-methyl-                |       | 112              | C8H16     | 013151-05-8  | 53   |
| 3         | Octane, 3,5-dimethyl-               |       | 142              | C10H22    | 015869-93-9  | 50   |
| 4         | Hexane, 3,3,4-trimethyl-            |       | 128              | C9H20     | 016747-31-2  | 47   |
| 5         | Sulfurous acid, hexyl pentadecyl... |       | 376              | C21H44O3S | 1000309-13-7 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

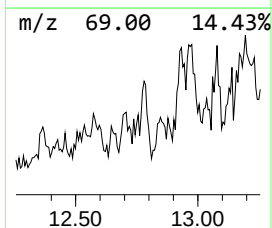
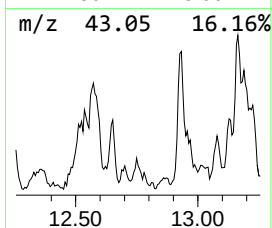
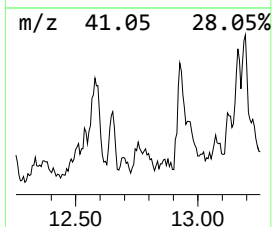
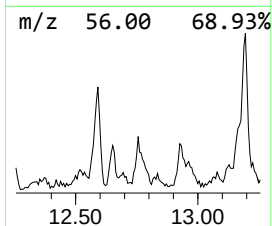
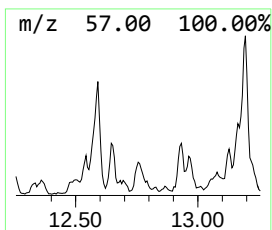
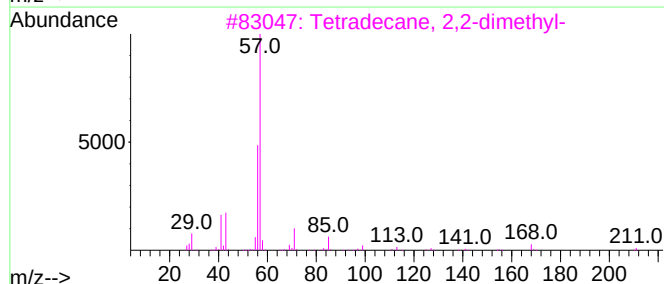
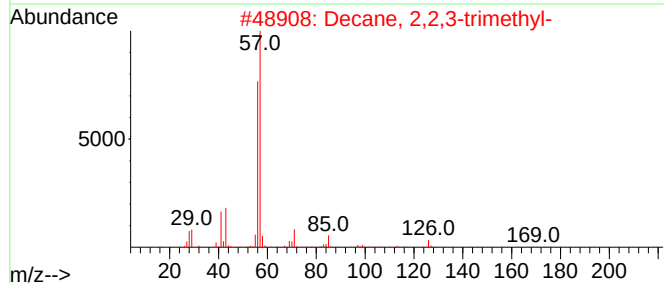
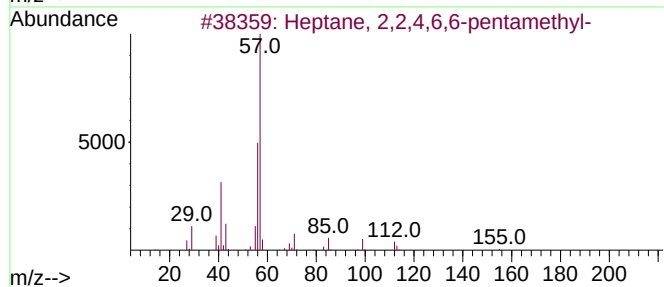
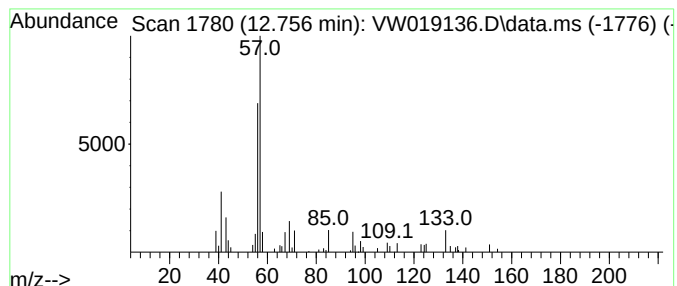
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 40

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.756 | 1.57 ug/L | 14817 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|------|---------------------------------|-----|---------|-------------|------|
| 1    |      | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26  | 013475-82-6 | 47   |
| 2    |      | Decane, 2,2,3-trimethyl-        | 184 | C13H28  | 062338-09-4 | 47   |
| 3    |      | Tetradecane, 2,2-dimethyl-      | 226 | C16H34  | 059222-86-5 | 47   |
| 4    |      | Decane, 2,2,7-trimethyl-        | 184 | C13H28  | 062237-99-4 | 38   |
| 5    |      | Undecane, 2,2-dimethyl-         | 184 | C13H28  | 017312-64-0 | 38   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

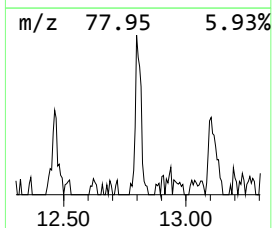
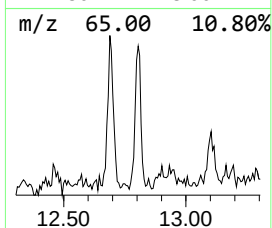
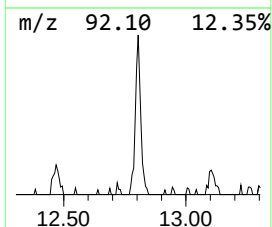
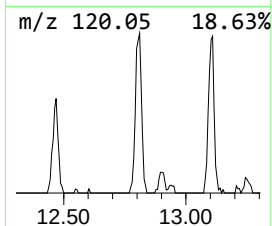
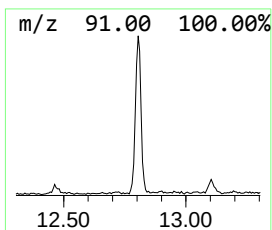
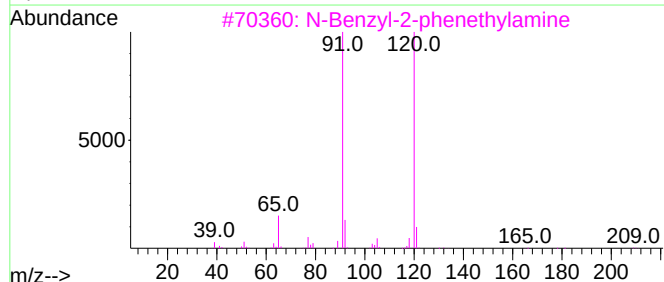
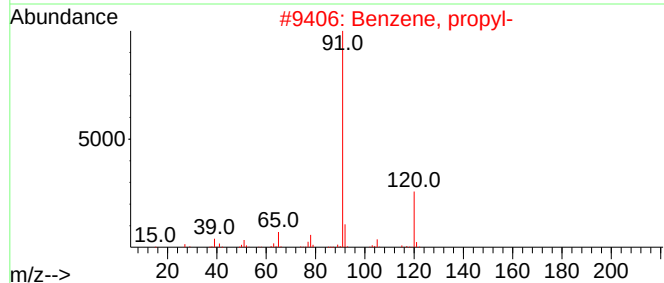
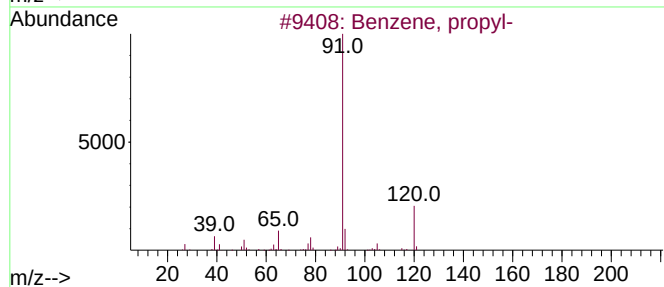
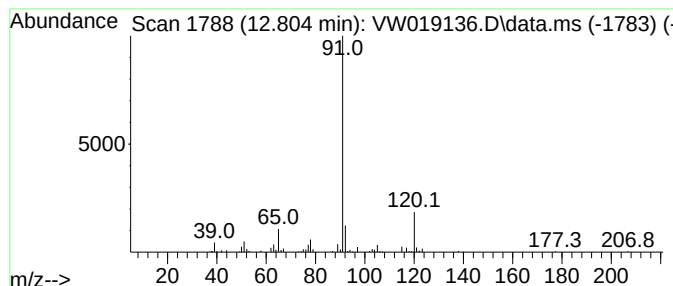
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Quant Title : SFAM01.0

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

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Peak Number 17 Benzene, propyl- Concentration Rank 21

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.804 | 5.06 ug/L | 47700 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | Benzene, propyl-                    | 120 | C9H12      | 000103-65-1 | 87   |
| 2    |    |   | Benzene, propyl-                    | 120 | C9H12      | 000103-65-1 | 83   |
| 3    |    |   | N-Benzyl-2-phenethylamine           | 211 | C15H17N    | 003647-71-0 | 78   |
| 4    |    |   | Benzene, propyl-                    | 120 | C9H12      | 000103-65-1 | 76   |
| 5    |    |   | N,N-Dibenzylethylenediamine diac... | 324 | C20H24N2O2 | 000122-75-8 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

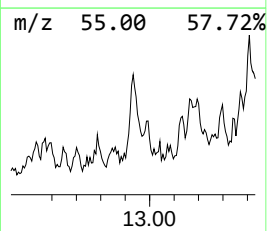
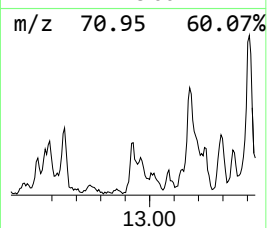
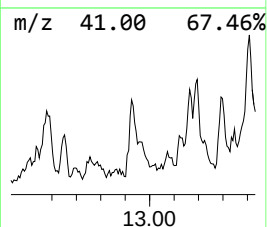
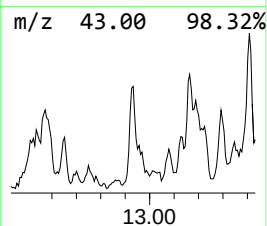
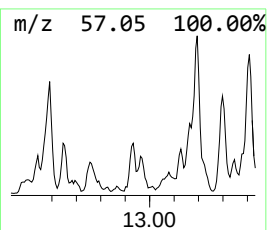
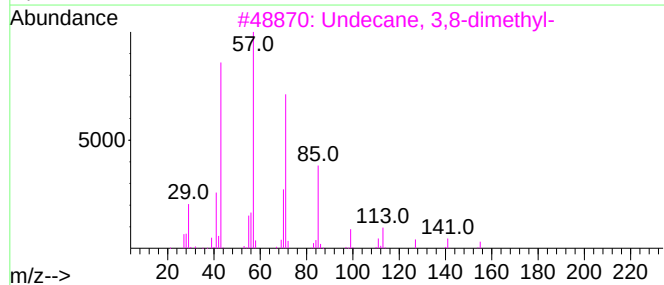
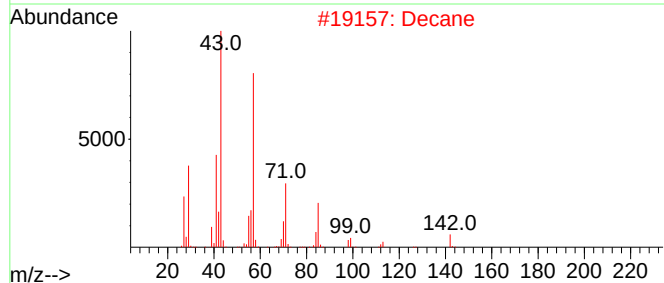
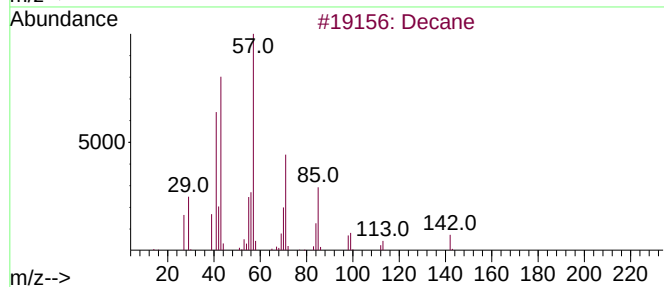
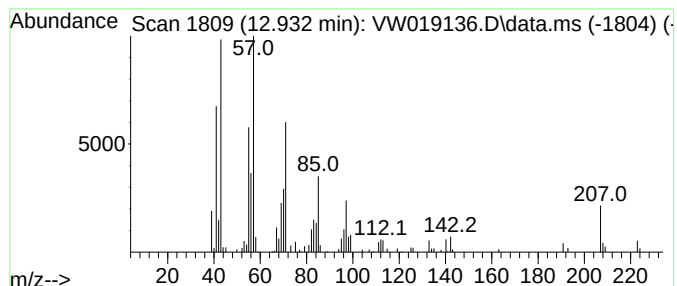
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 12.932 | 9.71 ug/L | 91544 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Decane                  | 142 | C10H22  | 000124-18-5 | 70   |
| 2    |    |   | Decane                  | 142 | C10H22  | 000124-18-5 | 64   |
| 3    |    |   | Undecane, 3,8-dimethyl- | 184 | C13H28  | 017301-30-3 | 47   |
| 4    |    |   | 10-Methylnonadecane     | 282 | C20H42  | 056862-62-5 | 47   |
| 5    |    |   | Decane                  | 142 | C10H22  | 000124-18-5 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

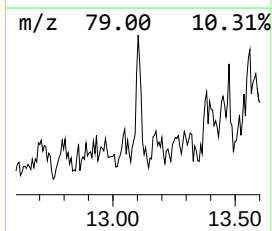
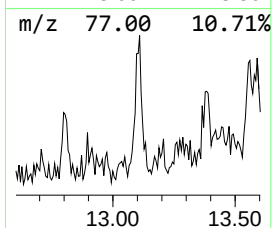
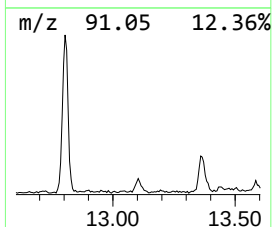
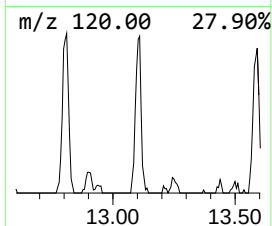
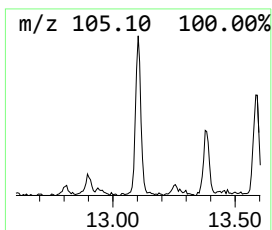
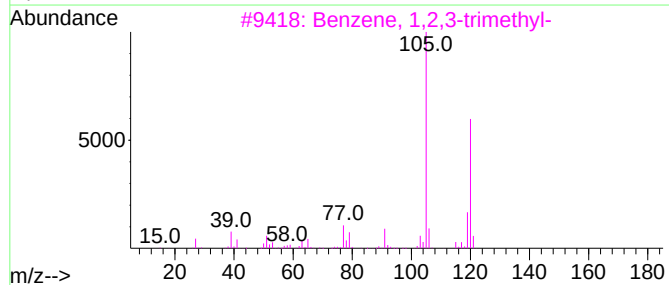
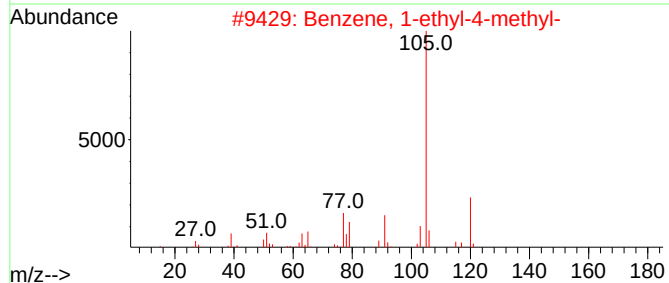
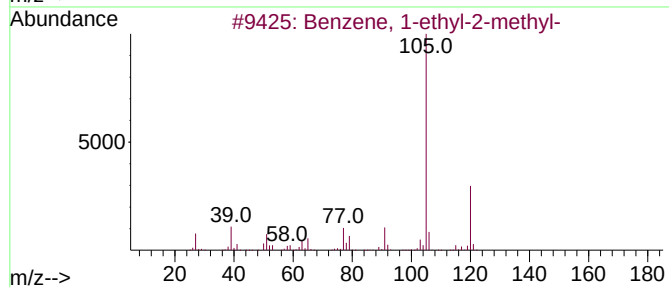
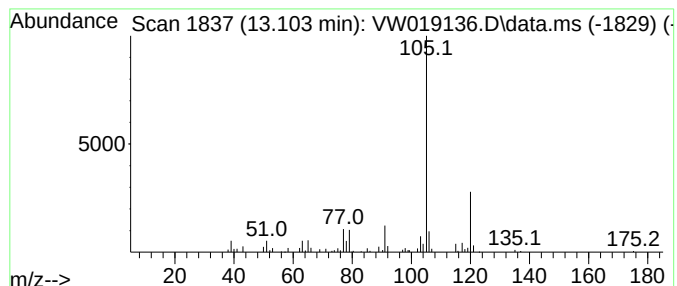
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 19 Benzene, 1-ethyl-2-methyl- Concentration Rank 26

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.103 | 4.20 ug/L | 39603 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 93   |
| 3    |    |   | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 4    |    |   | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 91   |
| 5    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

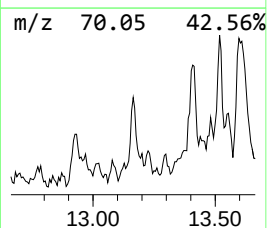
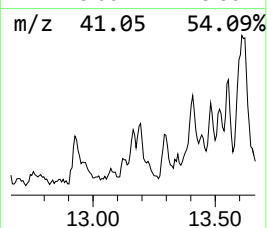
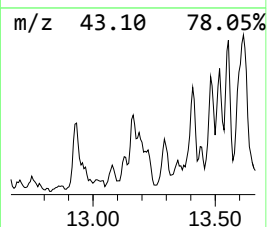
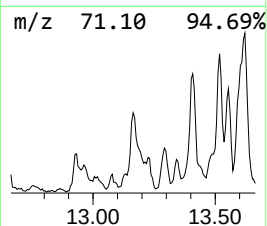
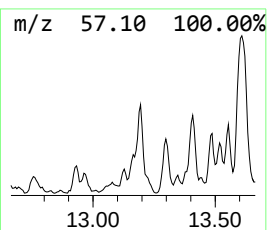
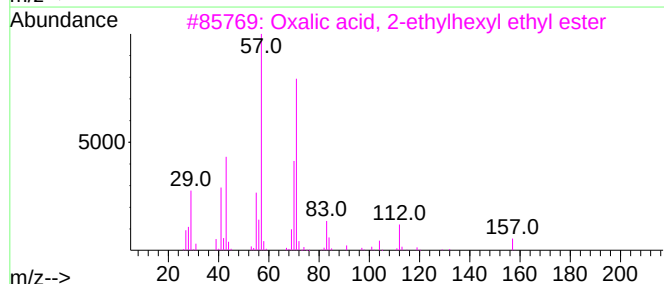
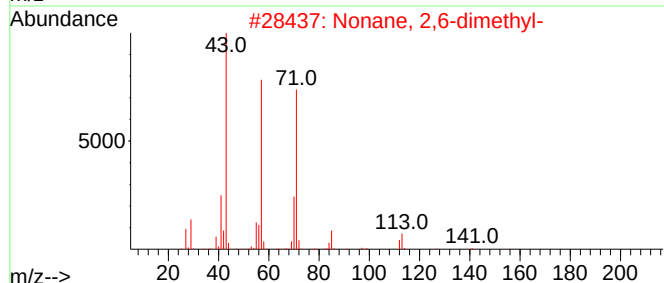
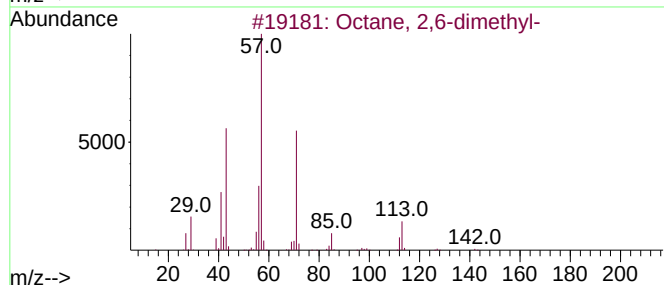
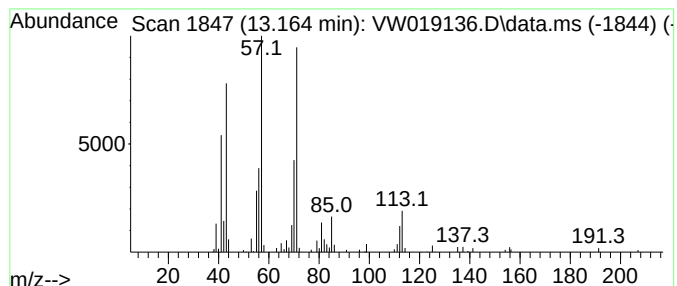
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MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T.      | EstConc                             | Area  | Relative to ISTD       |           | R.T.         |      |
|-----------|-------------------------------------|-------|------------------------|-----------|--------------|------|
| 13.164    | 3.97 ug/L                           | 37458 | 1,4-Dichlorobenzene-d4 |           | 13.560       |      |
| Hit# of 5 | Tentative ID                        |       | MW                     | MolForm   | CAS#         | Qual |
| 1         | Octane, 2,6-dimethyl-               |       | 142                    | C10H22    | 002051-30-1  | 64   |
| 2         | Nonane, 2,6-dimethyl-               |       | 156                    | C11H24    | 017302-28-2  | 59   |
| 3         | Oxalic acid, 2-ethylhexyl ethyl ... |       | 230                    | C12H22O4  | 1000309-38-4 | 53   |
| 4         | Octane, 3-ethyl-                    |       | 142                    | C10H22    | 005881-17-4  | 53   |
| 5         | Sulfurous acid, 2-ethylhexyl non... |       | 320                    | C17H36O3S | 1000309-19-2 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

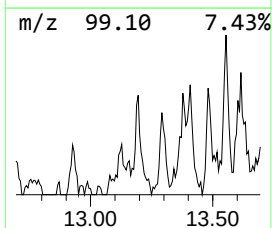
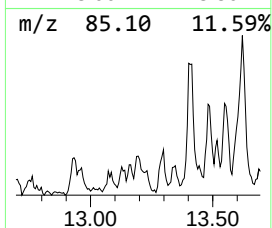
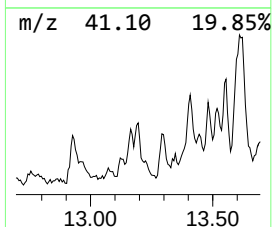
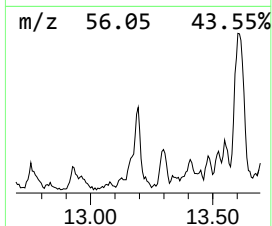
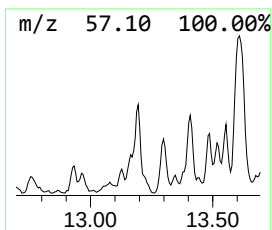
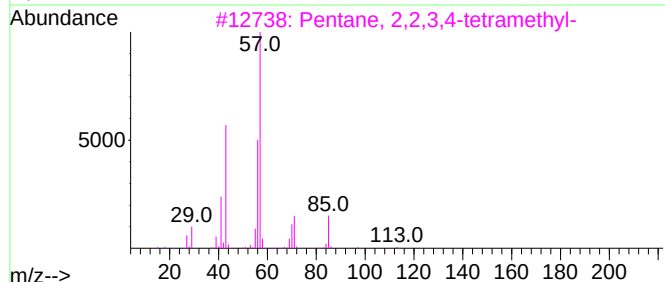
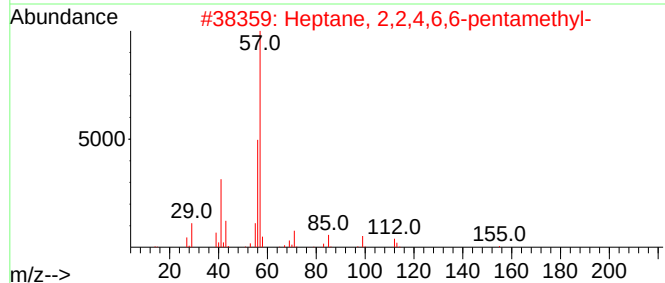
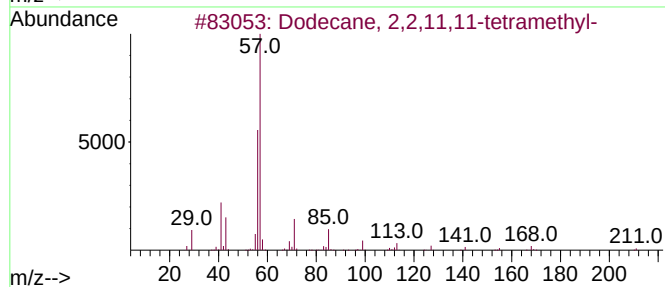
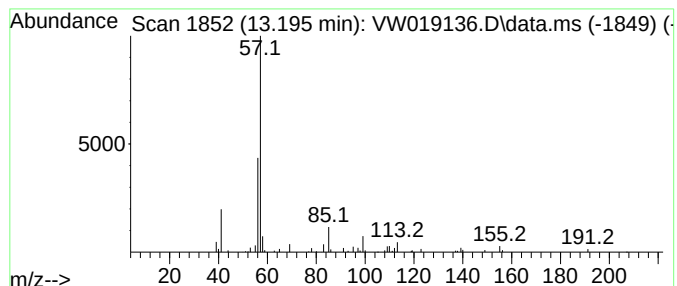
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Quant Title : SFAM01.0

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

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Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T.      | EstConc                          | Area  | Relative to ISTD       | R.T.        |      |
|-----------|----------------------------------|-------|------------------------|-------------|------|
| 13.195    | 5.03 ug/L                        | 47431 | 1,4-Dichlorobenzene-d4 | 13.560      |      |
| Hit# of 5 | Tentative ID                     | MW    | MolForm                | CAS#        | Qual |
| 1         | Dodecane, 2,2,11,11-tetramethyl- | 226   | C16H34                 | 127204-12-0 | 56   |
| 2         | Heptane, 2,2,4,6,6-pentamethyl-  | 170   | C12H26                 | 013475-82-6 | 56   |
| 3         | Pentane, 2,2,3,4-tetramethyl-    | 128   | C9H20                  | 001186-53-4 | 45   |
| 4         | Tridecane, 3-methyl-             | 198   | C14H30                 | 006418-41-3 | 43   |
| 5         | Hexane, 2,2-dimethyl-            | 114   | C8H18                  | 000590-73-8 | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

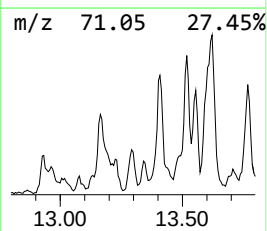
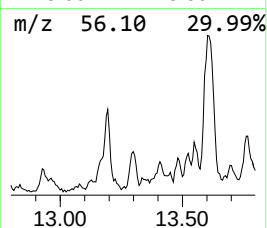
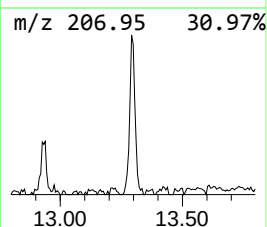
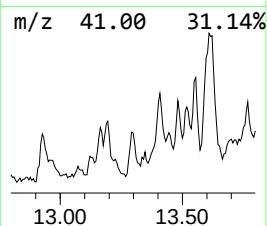
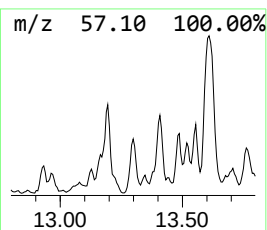
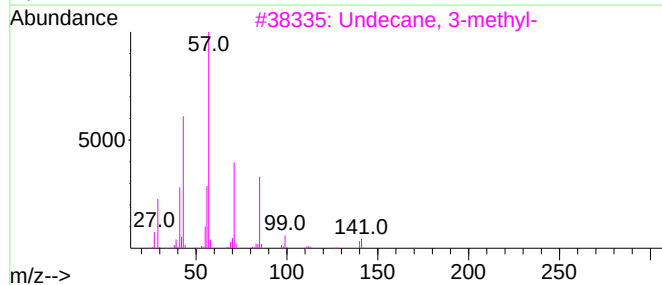
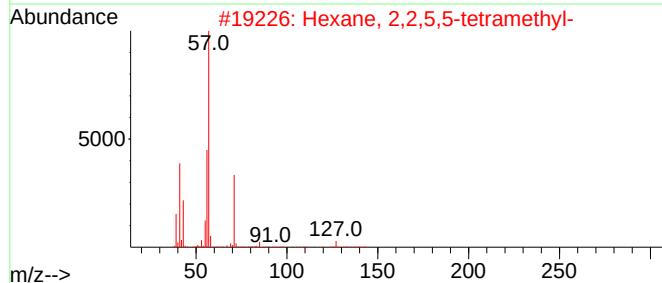
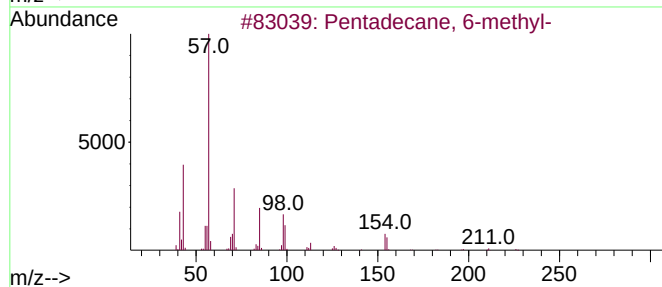
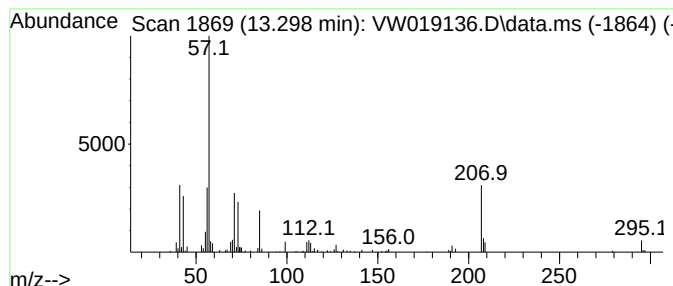
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Quant Title : SFAM01.0

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

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

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.298 | 7.39 ug/L | 69697 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------|-----|---------|-------------|------|
| 1    |      | Pentadecane, 6-methyl-       | 226 | C16H34  | 010105-38-1 | 38   |
| 2    |      | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22  | 001071-81-4 | 35   |
| 3    |      | Undecane, 3-methyl-          | 170 | C12H26  | 001002-43-3 | 27   |
| 4    |      | Decane, 5-methyl-            | 156 | C11H24  | 013151-35-4 | 27   |
| 5    |      | Dodecane, 3-methyl-          | 184 | C13H28  | 017312-57-1 | 27   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

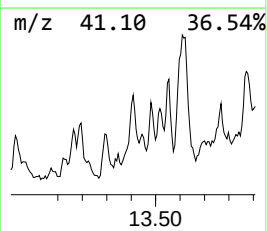
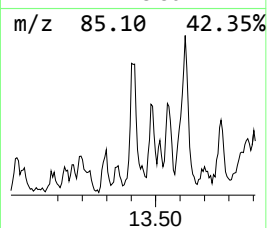
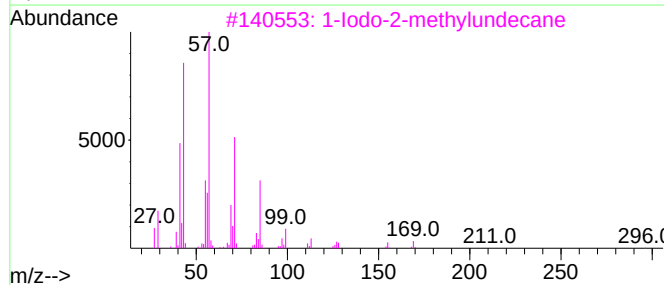
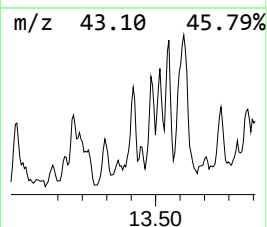
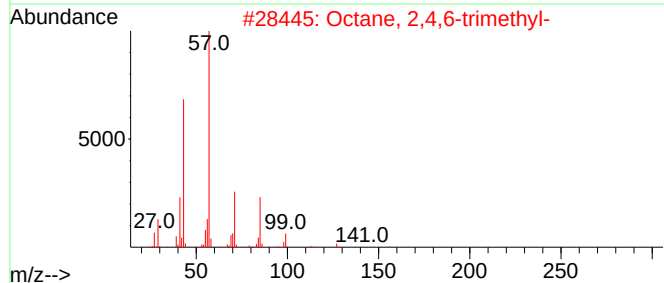
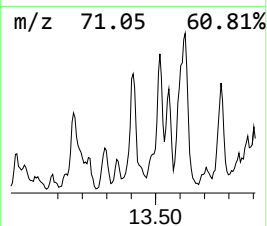
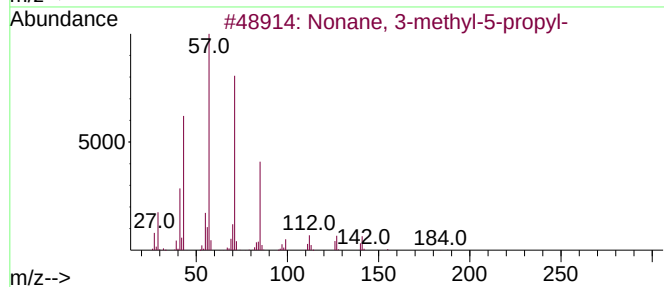
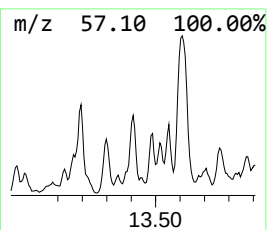
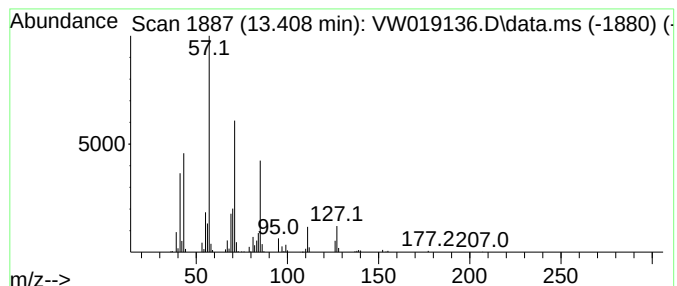
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Quant Title : SFAM01.0

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

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Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.      | EstConc                    | Area  | Relative to ISTD       |         | R.T.        |      |
|-----------|----------------------------|-------|------------------------|---------|-------------|------|
| 13.408    | 10.40 ug/L                 | 98111 | 1,4-Dichlorobenzene-d4 |         | 13.560      |      |
| Hit# of 5 | Tentative ID               |       | MW                     | MolForm | CAS#        | Qual |
| 1         | Nonane, 3-methyl-5-propyl- |       | 184                    | C13H28  | 031081-18-2 | 59   |
| 2         | Octane, 2,4,6-trimethyl-   |       | 156                    | C11H24  | 062016-37-9 | 53   |
| 3         | 1-Iodo-2-methylundecane    |       | 296                    | C12H25I | 073105-67-6 | 53   |
| 4         | Hexadecane                 |       | 226                    | C16H34  | 000544-76-3 | 53   |
| 5         | Pentadecane                |       | 212                    | C15H32  | 000629-62-9 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

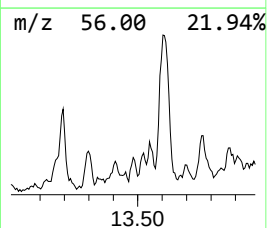
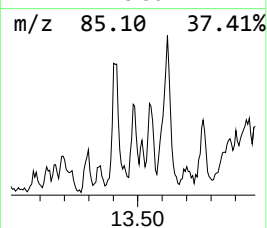
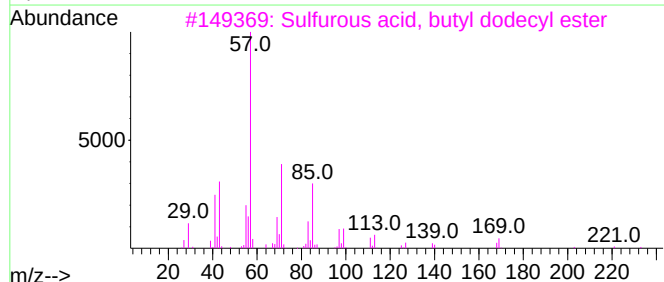
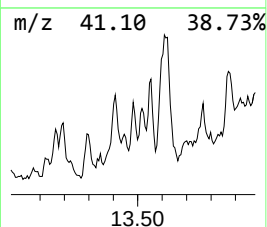
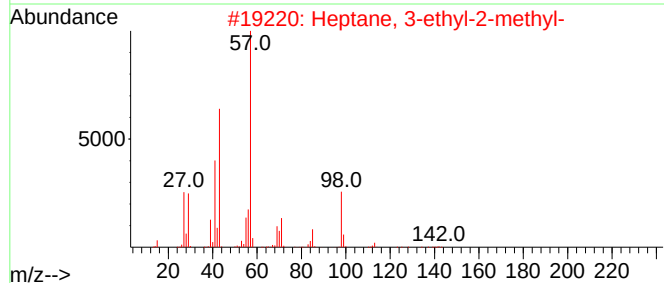
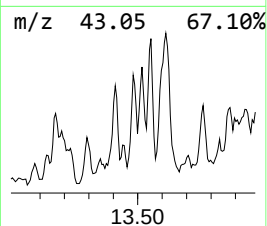
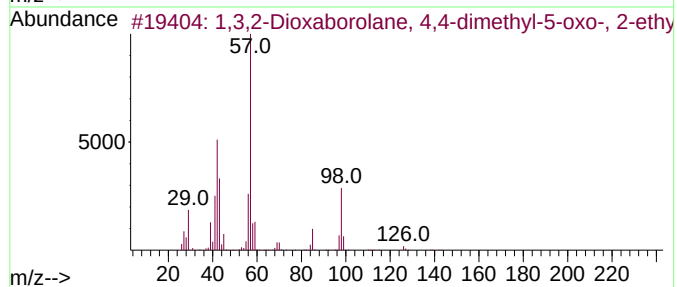
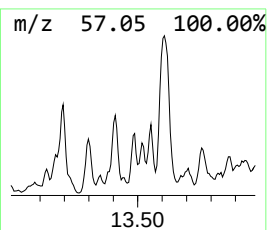
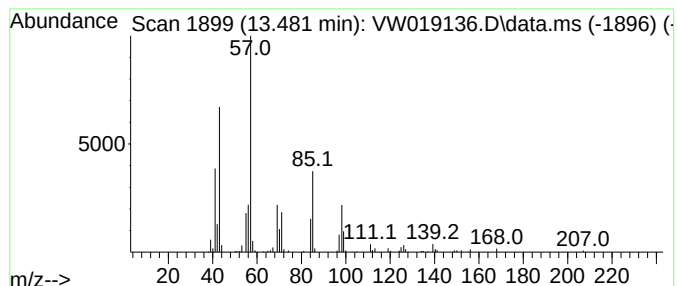
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Quant Title : SFAM01.0

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

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Peak Number 24 1,3,2-Dioxaborolane, 4,4-di... Concentration Rank 20

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.481 | 5.18 ug/L | 48840 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 1,3,2-Dioxaborolane, 4,4-dimethy... | 142 | C6H11B03  | 1000063-89-2 | 59   |
| 2    |    |   | Heptane, 3-ethyl-2-methyl-          | 142 | C10H22    | 014676-29-0  | 50   |
| 3    |    |   | Sulfurous acid, butyl dodecyl ester | 306 | C16H34O3S | 1000309-17-9 | 50   |
| 4    |    |   | Dodecane                            | 170 | C12H26    | 000112-40-3  | 50   |
| 5    |    |   | Oxalic acid, heptyl isohexyl ester  | 272 | C15H28O4  | 1000309-33-1 | 50   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

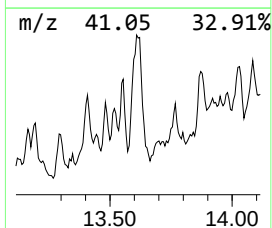
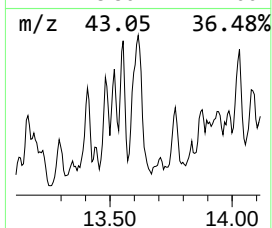
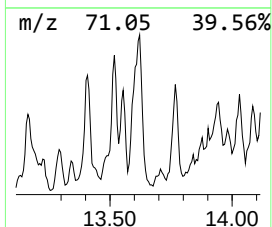
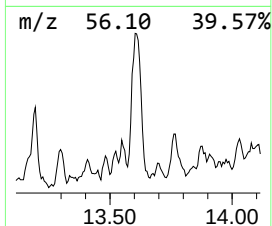
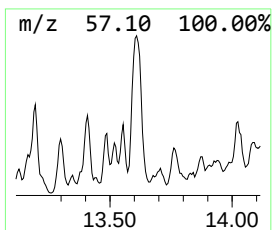
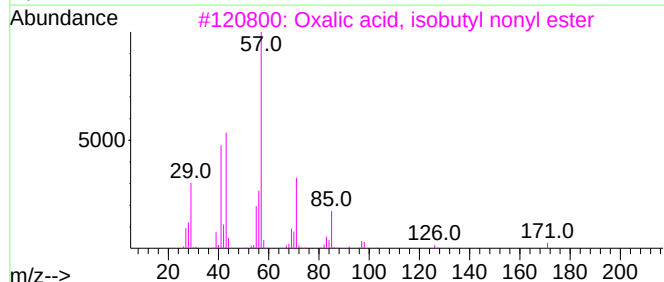
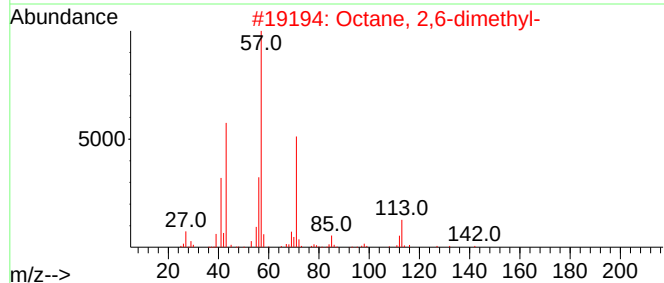
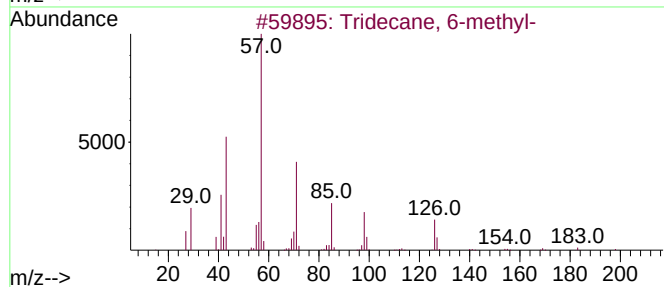
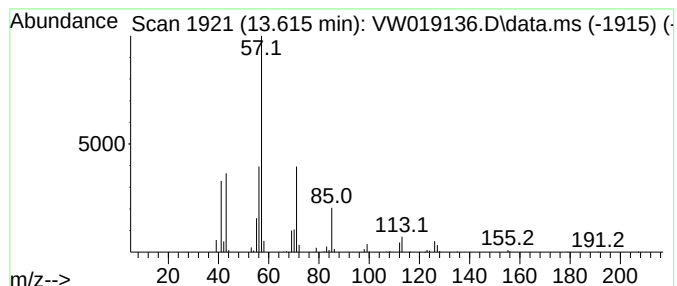
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Quant Title : SFAM01.0

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

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Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD       |          | R.T.         |      |
|-----------|-------------------------------------|--------|------------------------|----------|--------------|------|
| 13.615    | 30.00 ug/L                          | 282857 | 1,4-Dichlorobenzene-d4 |          | 13.560       |      |
| Hit# of 5 | Tentative ID                        |        | MW                     | MolForm  | CAS#         | Qual |
| 1         | Tridecane, 6-methyl-                |        | 198                    | C14H30   | 013287-21-3  | 59   |
| 2         | Octane, 2,6-dimethyl-               |        | 142                    | C10H22   | 002051-30-1  | 59   |
| 3         | Oxalic acid, isobutyl nonyl ester   |        | 272                    | C15H28O4 | 1000309-37-4 | 59   |
| 4         | Decane, 2,6,8-trimethyl-            |        | 184                    | C13H28   | 062108-26-3  | 50   |
| 5         | Heptadecane, 2,6,10,14-tetramethyl- |        | 296                    | C21H44   | 018344-37-1  | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

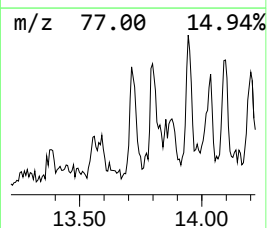
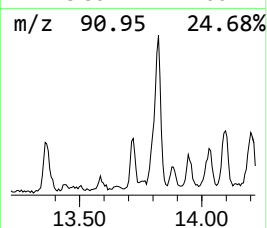
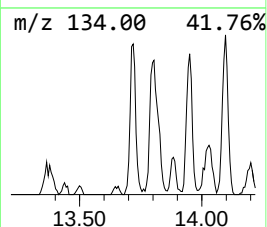
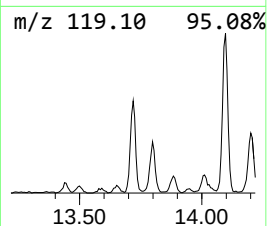
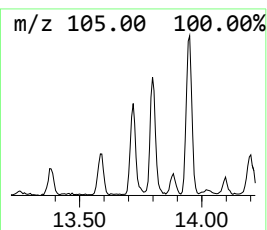
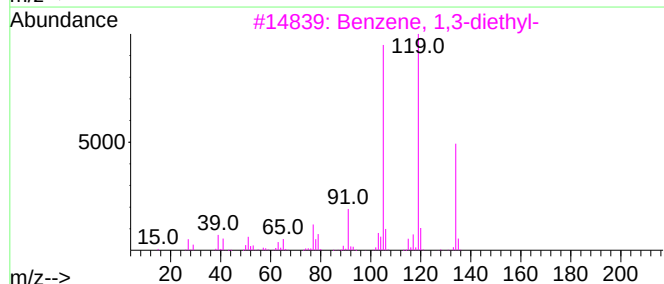
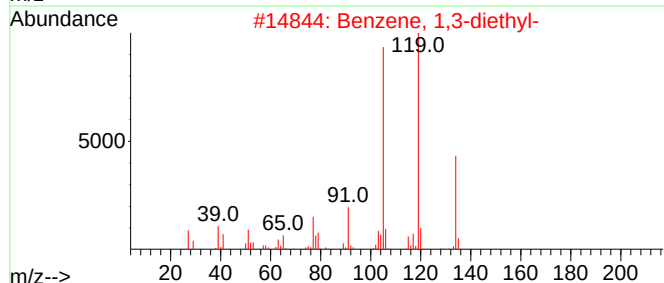
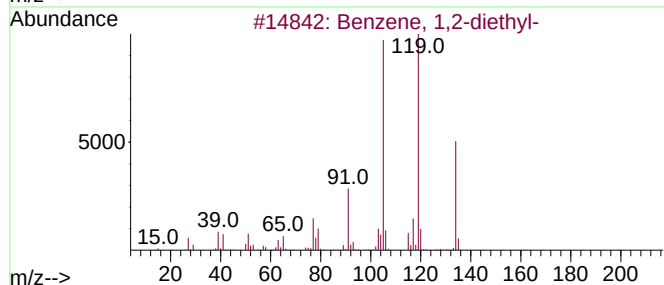
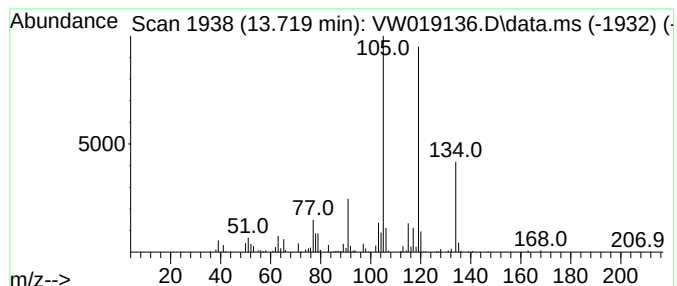
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 26 Benzene, 1,2-diethyl- Concentration Rank 12

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.719 | 11.17 ug/L | 105343 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2-diethyl-          | 134 | C10H14  | 000135-01-3 | 96   |
| 2    |    |   | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 95   |
| 3    |    |   | Benzene, 1,3-diethyl-          | 134 | C10H14  | 000141-93-5 | 95   |
| 4    |    |   | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 94   |
| 5    |    |   | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 93   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

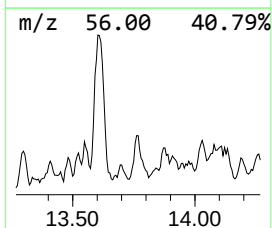
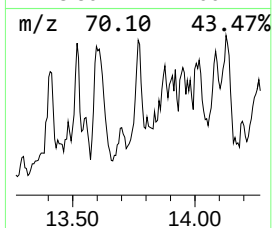
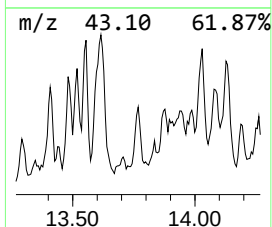
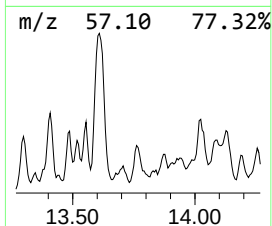
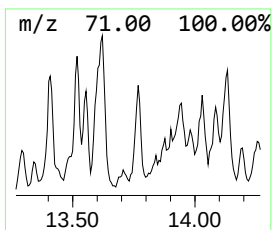
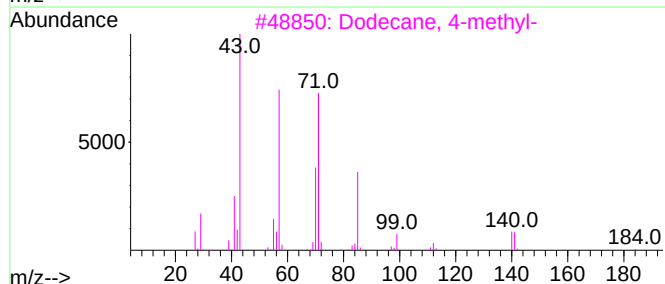
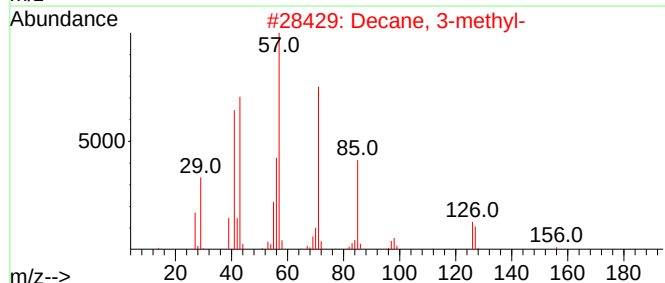
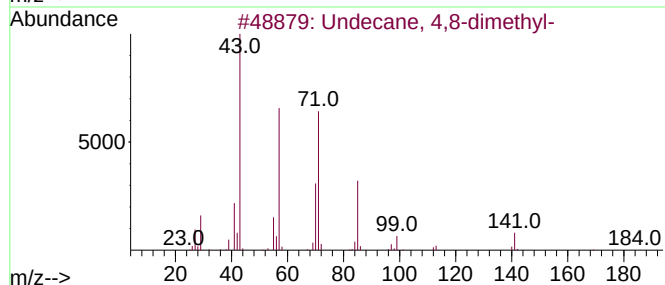
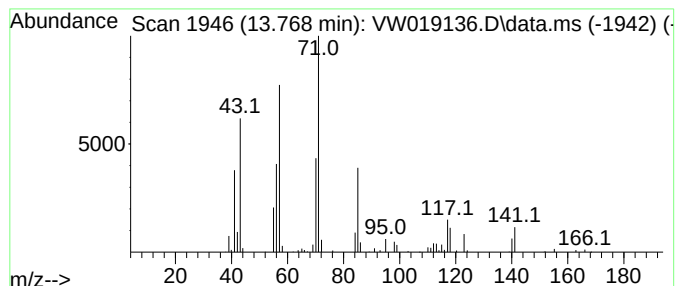
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Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 24

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.768 | 4.65 ug/L | 43808 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------|-----|---------|-------------|------|
| 1    |      | Undecane, 4,8-dimethyl-      | 184 | C13H28  | 017301-33-6 | 59   |
| 2    |      | Decane, 3-methyl-            | 156 | C11H24  | 013151-34-3 | 59   |
| 3    |      | Dodecane, 4-methyl-          | 184 | C13H28  | 006117-97-1 | 53   |
| 4    |      | Hexane, 3,3-dimethyl-        | 114 | C8H18   | 000563-16-6 | 50   |
| 5    |      | Octane, 2,3,6,7-tetramethyl- | 170 | C12H26  | 052670-34-5 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

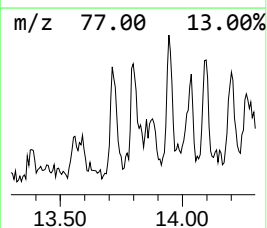
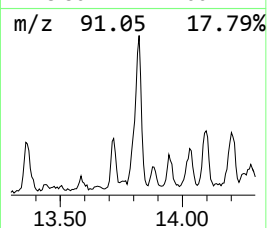
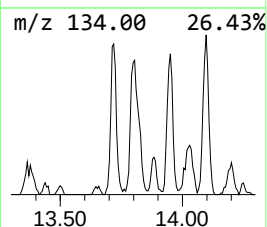
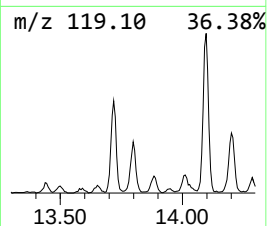
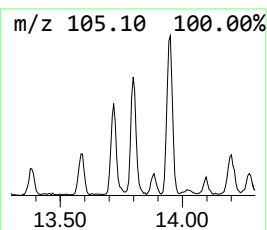
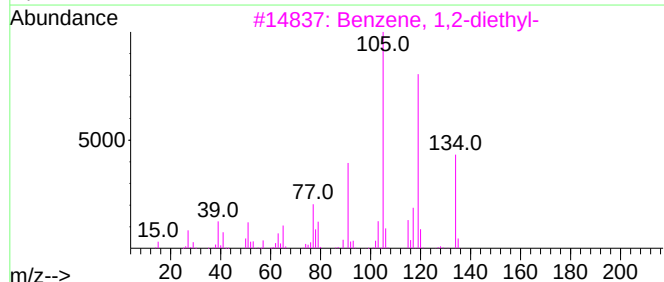
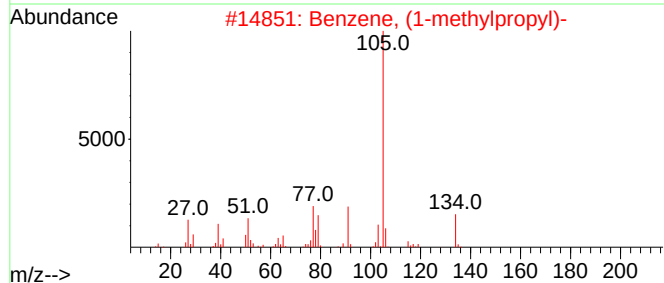
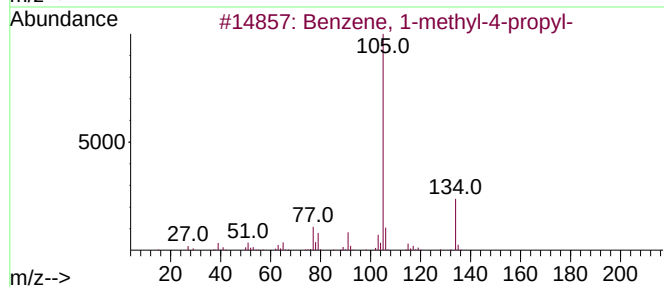
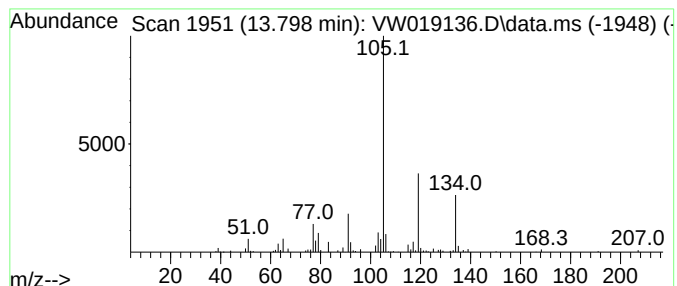
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Quant Title : SFAM01.0

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

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Peak Number 28 Benzene, 1-methyl-4-propyl- Concentration Rank 28

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.798 | 3.96 ug/L | 37308 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 68   |
| 2    |    |   | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 68   |
| 3    |    |   | Benzene, 1,2-diethyl-       | 134 | C10H14  | 000135-01-3 | 59   |
| 4    |    |   | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 58   |
| 5    |    |   | 2-Tolylloxirane             | 134 | C9H10O  | 002783-26-8 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

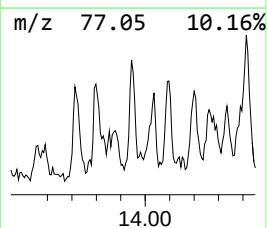
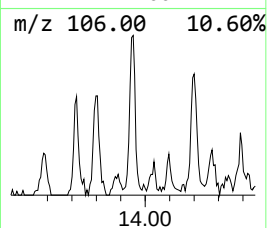
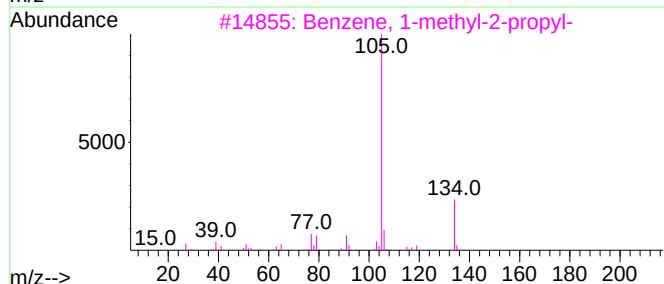
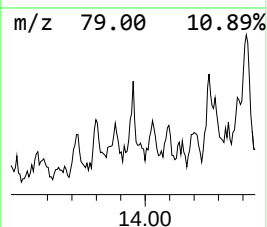
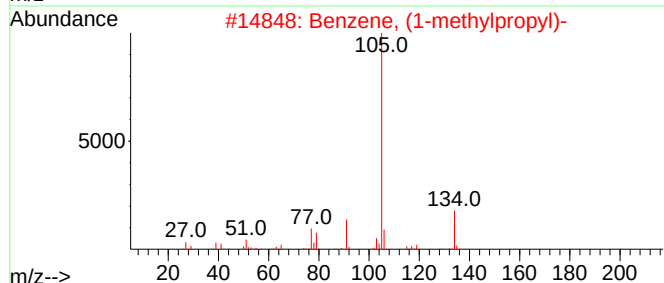
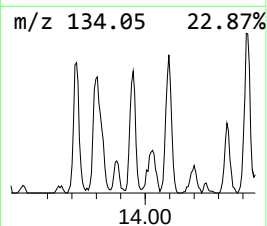
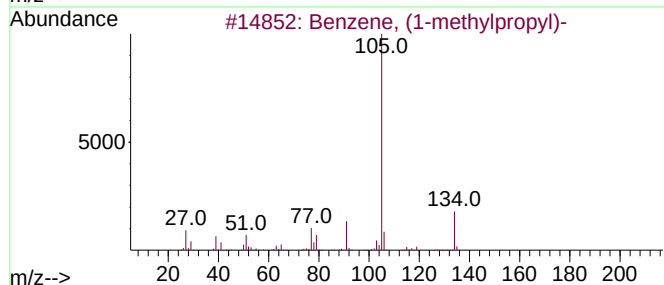
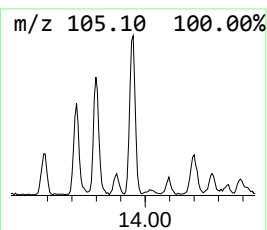
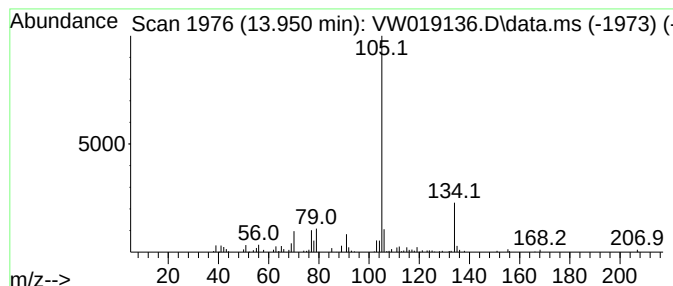
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 29 Benzene, (1-methylpropyl)- Concentration Rank 23

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.951 | 4.76 ug/L | 44880 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 87   |
| 2    |    |   | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 83   |
| 3    |    |   | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 81   |
| 4    |    |   | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 76   |
| 5    |    |   | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

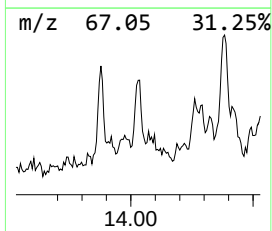
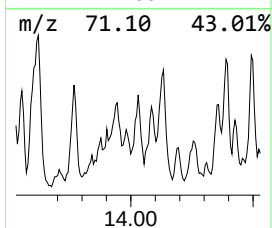
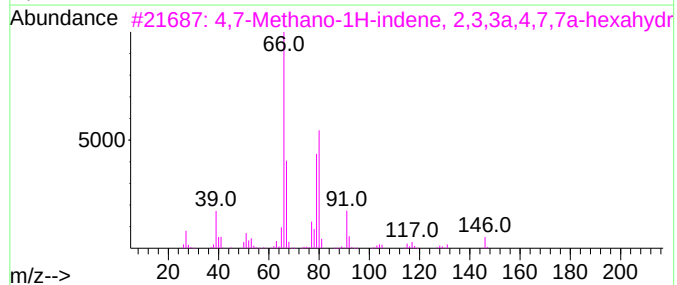
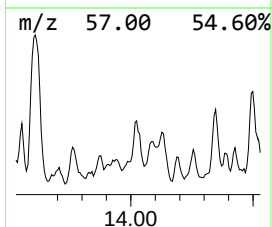
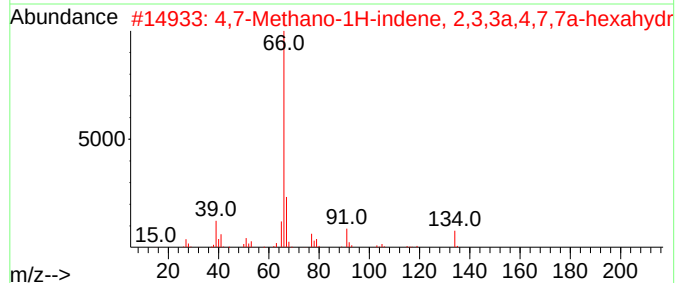
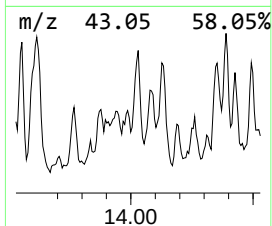
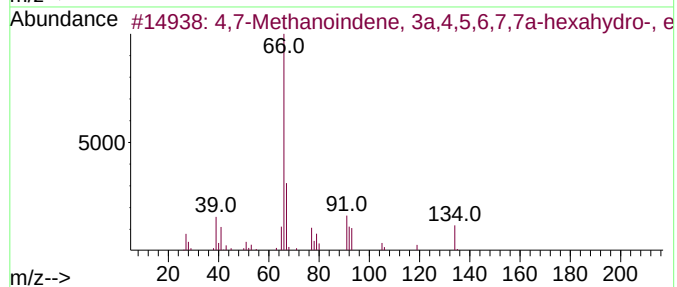
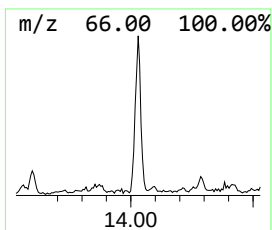
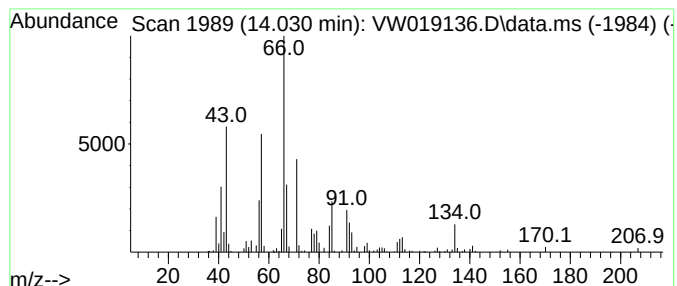
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 30 4,7-Methanoindene, 3a,4,5,6... Concentration Rank 14

| R.T.   | EstConc    | Area  | Relative to ISTD       | R.T.   |
|--------|------------|-------|------------------------|--------|
| 14.030 | 10.52 ug/L | 99227 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 4,7-Methanoindene, 3a,4,5,6,7,7a... | 134 | C10H14  | 002825-86-7 | 90   |
| 2    |    |   | 4,7-Methano-1H-indene, 2,3,3a,4,... | 134 | C10H14  | 019398-83-5 | 64   |
| 3    |    |   | 4,7-Methano-1H-indene, 2,3,3a,4,... | 146 | C11H14  | 068284-25-3 | 59   |
| 4    |    |   | 5-Ethyl bicyclo[2.2.1]-2-heptene    | 122 | C9H14   | 015403-89-1 | 53   |
| 5    |    |   | endo-Methylenetetrahydrophthalic... | 182 | C9H10O4 | 003853-88-1 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

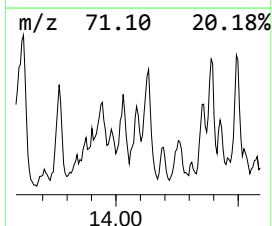
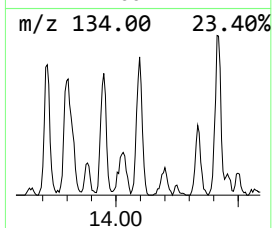
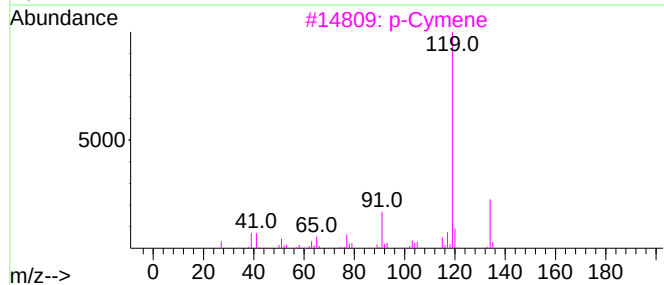
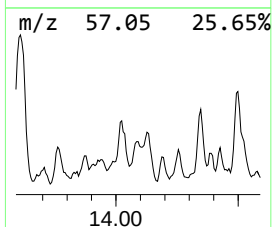
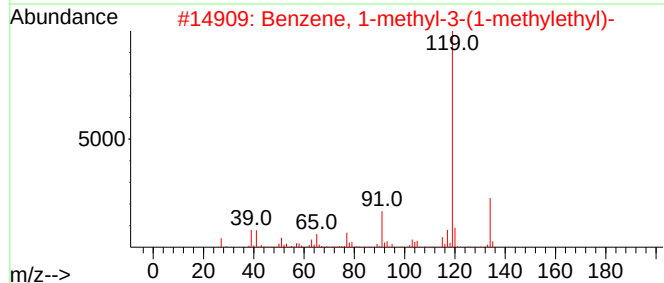
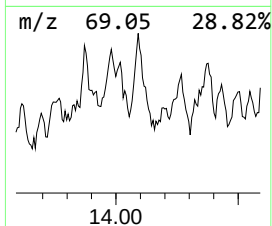
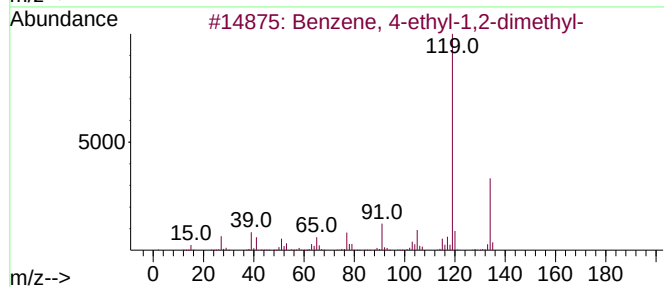
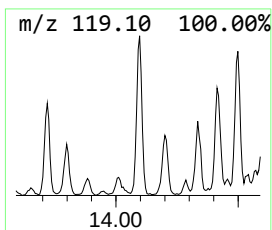
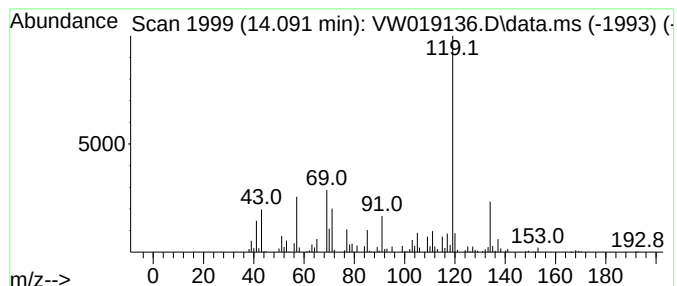
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Quant Title : SFAM01.0

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

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Peak Number 31 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 8

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.091 | 15.50 ug/L | 146196 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14  | 000934-80-5 | 93   |
| 2    |    |   | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 93   |
| 3    |    |   | p-Cymene                             | 134 | C10H14  | 000099-87-6 | 92   |
| 4    |    |   | Benzene, 1-ethyl-2,4-dimethyl-       | 134 | C10H14  | 000874-41-9 | 92   |
| 5    |    |   | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 92   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

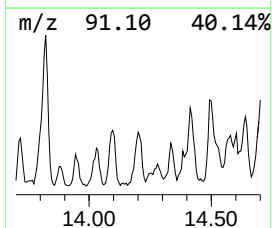
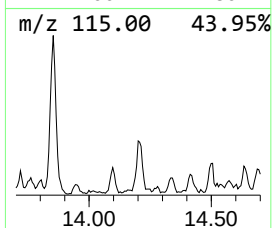
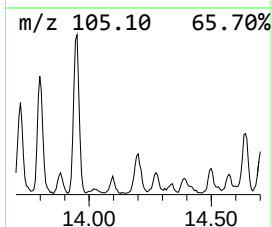
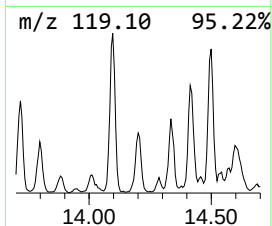
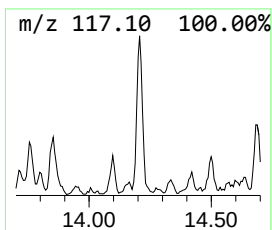
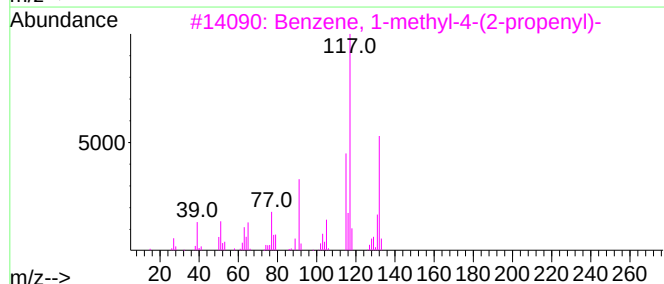
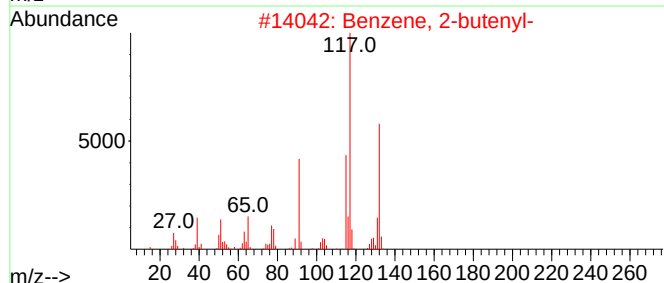
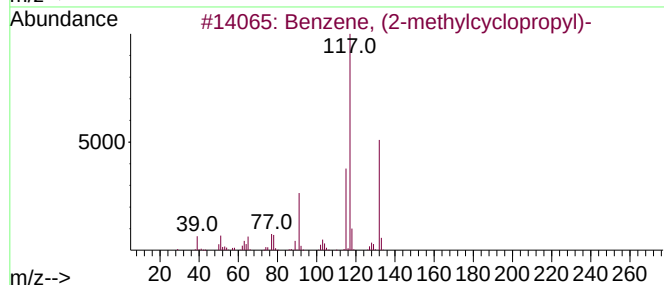
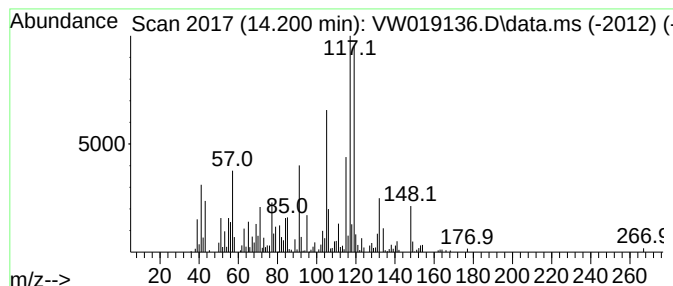
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Quant Title : SFAM01.0

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

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Peak Number 32 Benzene, (2-methylcycloprop... Concentration Rank 5

| R.T.      | EstConc                           | Area   | Relative to ISTD       |         | R.T.         |      |
|-----------|-----------------------------------|--------|------------------------|---------|--------------|------|
| 14.200    | 17.61 ug/L                        | 166091 | 1,4-Dichlorobenzene-d4 |         | 13.560       |      |
| Hit# of 5 | Tentative ID                      |        | MW                     | MolForm | CAS#         | Qual |
| 1         | Benzene, (2-methylcyclopropyl)-   |        | 132                    | C10H12  | 1000327-39-0 | 50   |
| 2         | Benzene, 2-butenyl-               |        | 132                    | C10H12  | 001560-06-1  | 50   |
| 3         | Benzene, 1-methyl-4-(2-propenyl)- |        | 132                    | C10H12  | 003333-13-9  | 50   |
| 4         | Benzene, 2-butenyl-               |        | 132                    | C10H12  | 001560-06-1  | 45   |
| 5         | 3-Phenylbut-1-ene                 |        | 132                    | C10H12  | 000934-10-1  | 45   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

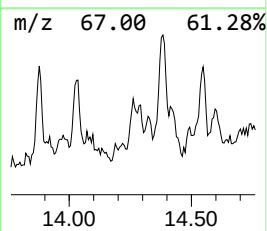
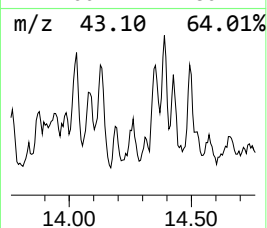
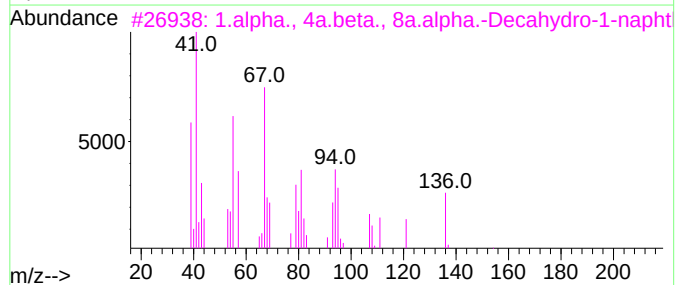
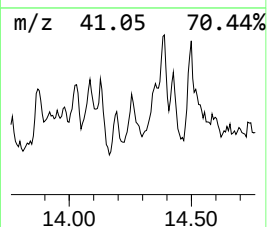
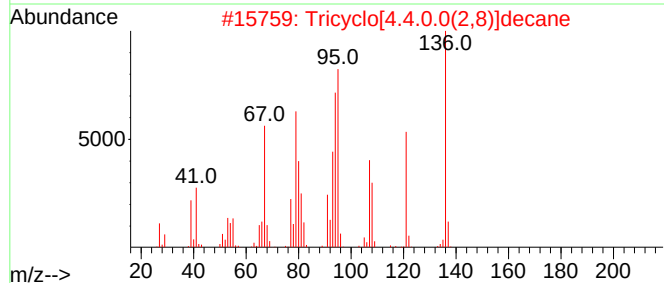
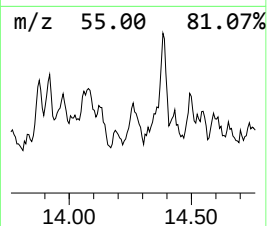
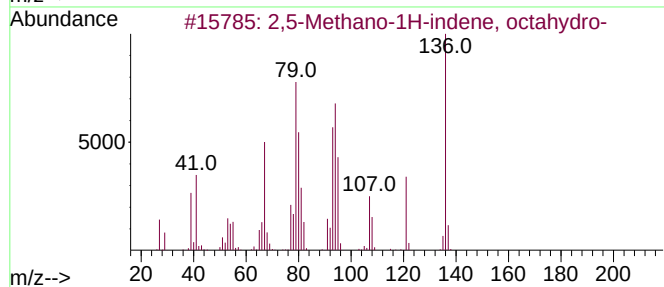
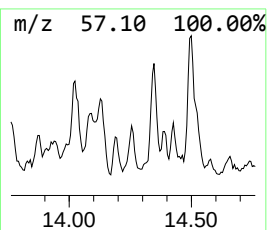
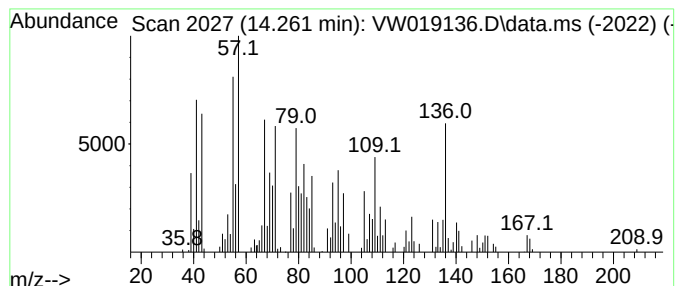
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Quant Title : SFAM01.0

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

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Peak Number 33 unknown-02 Concentration Rank 7

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.261 | 16.36 ug/L | 154234 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | 2,5-Methano-1H-indene, octahydro-   | 136 | C10H16  | 019026-94-9 | 42   |
| 2    |      | Tricyclo[4.4.0.0(2,8)]decane        | 136 | C10H16  | 049700-59-6 | 38   |
| 3    |      | 1.alpha., 4a.beta., 8a.alpha.-De... | 154 | C10H18O | 036159-47-4 | 38   |
| 4    |      | Adamantane                          | 136 | C10H16  | 000281-23-2 | 38   |
| 5    |      | Bicyclo[4.3.0]nonane, 2-methylen... | 136 | C10H16  | 040954-37-8 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

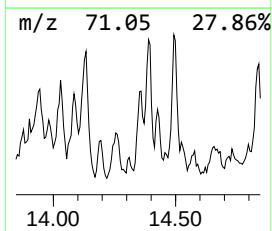
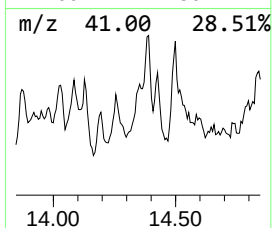
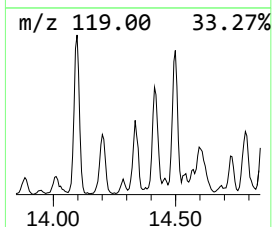
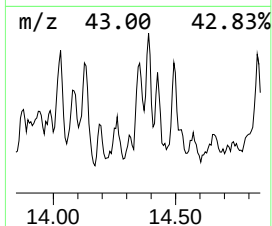
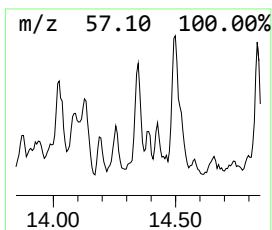
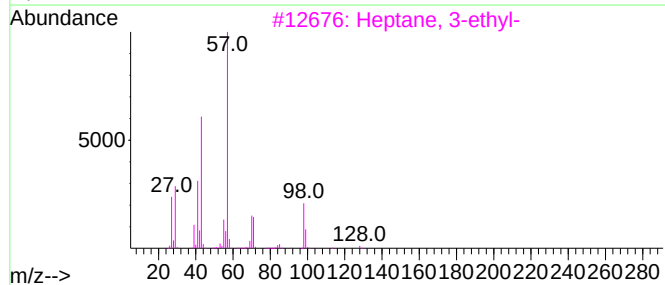
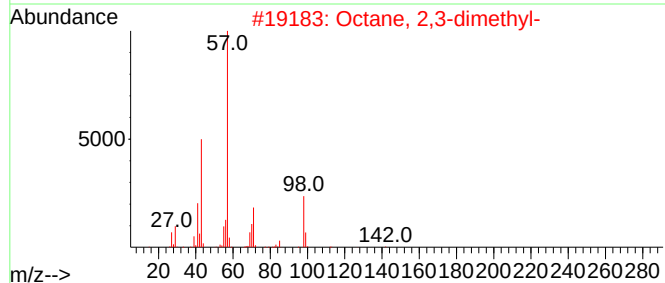
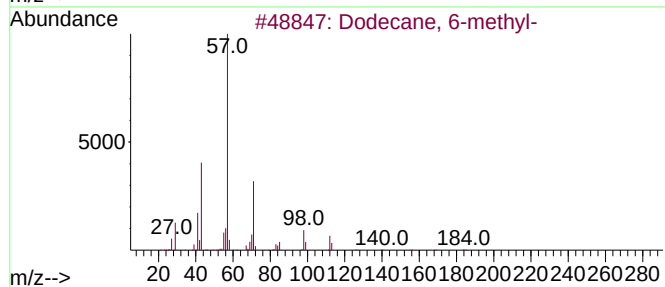
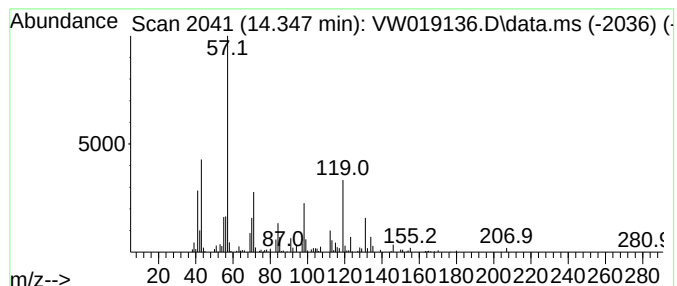
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.      | EstConc                             | Area   | Relative to ISTD       |           | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-----------|-------------|------|
| 14.347    | 14.21 ug/L                          | 134019 | 1,4-Dichlorobenzene-d4 |           | 13.560      |      |
| Hit# of 5 | Tentative ID                        |        | MW                     | MolForm   | CAS#        | Qual |
| 1         | Dodecane, 6-methyl-                 |        | 184                    | C13H28    | 006044-71-9 | 35   |
| 2         | Octane, 2,3-dimethyl-               |        | 142                    | C10H22    | 007146-60-3 | 27   |
| 3         | Heptane, 3-ethyl-                   |        | 128                    | C9H20     | 015869-80-4 | 27   |
| 4         | Propanoic acid, 3-mercapto-, 2-e... |        | 218                    | C11H22O2S | 050448-95-8 | 27   |
| 5         | Undecane, 2,6-dimethyl-             |        | 184                    | C13H28    | 017301-23-4 | 27   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

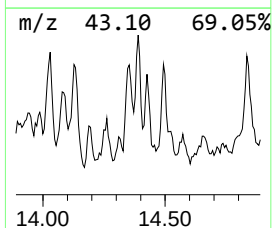
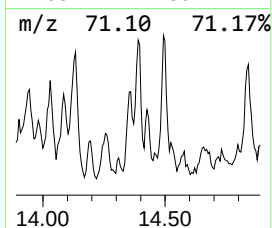
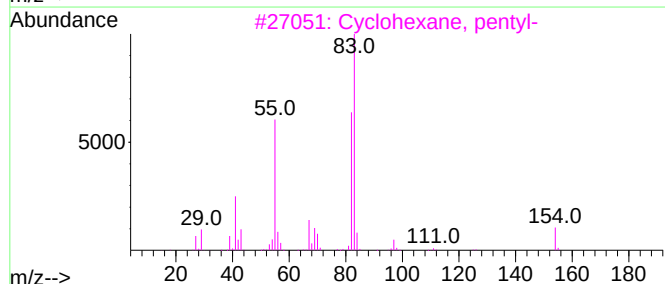
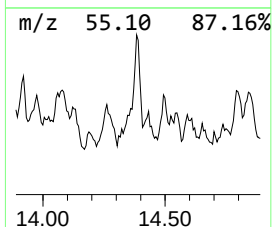
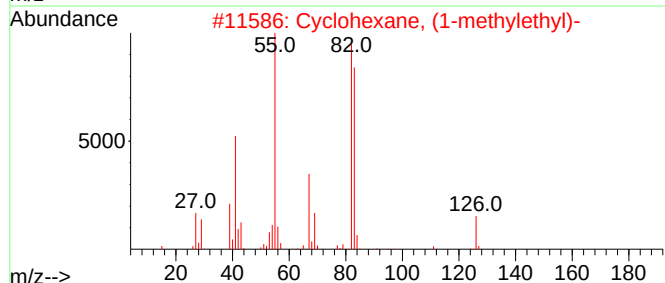
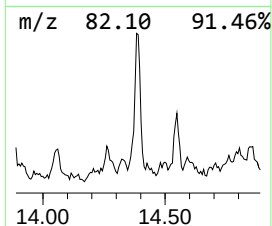
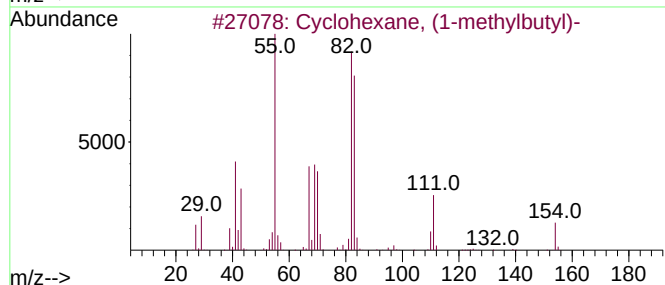
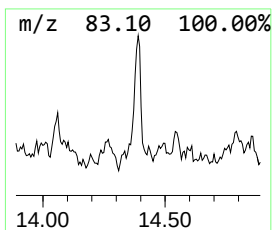
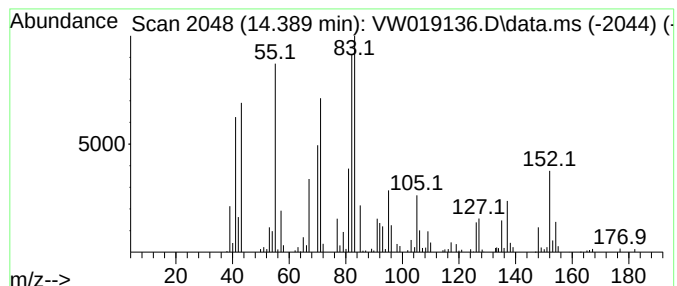
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 35 (DEL) Alkane: Cyclic14.389 Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.389 | 19.94 ug/L | 188000 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, (1-methylbutyl)-     | 154 | C11H22  | 061208-94-4 | 46   |
| 2    |    |   | Cyclohexane, (1-methylethyl)-     | 126 | C9H18   | 000696-29-7 | 41   |
| 3    |    |   | Cyclohexane, pentyl-              | 154 | C11H22  | 004292-92-6 | 38   |
| 4    |    |   | Cyclohexane, pentyl-              | 154 | C11H22  | 004292-92-6 | 38   |
| 5    |    |   | Cyclohexane, (1,3-dimethylbutyl)- | 168 | C12H24  | 061142-19-6 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

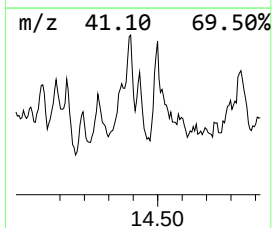
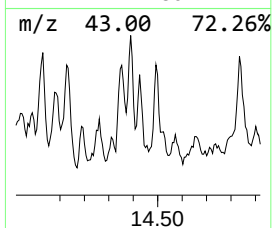
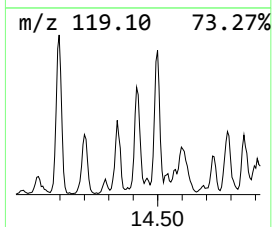
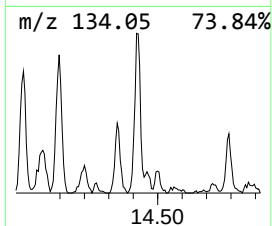
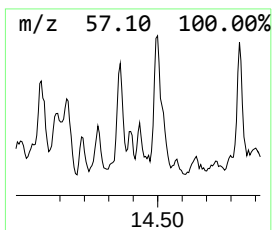
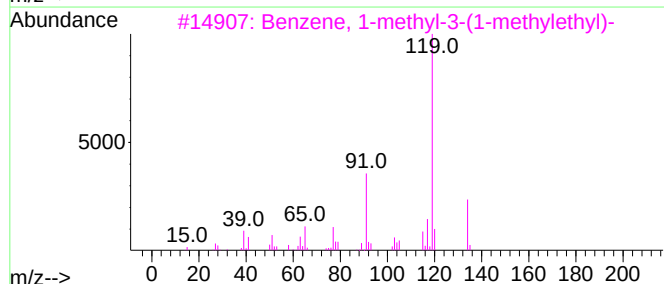
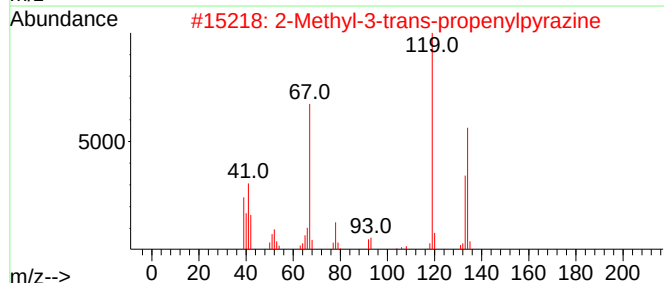
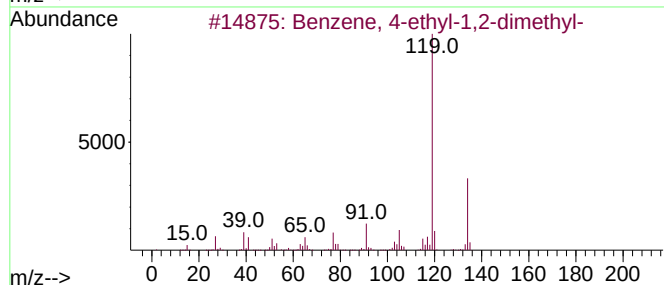
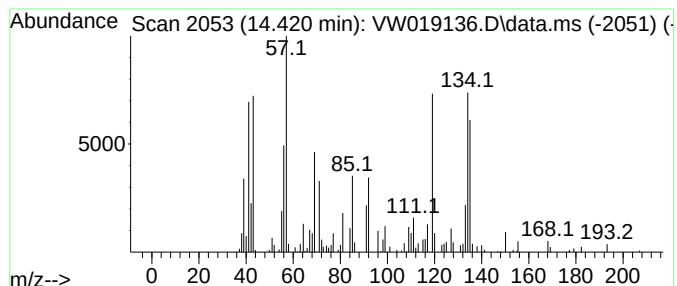
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Quant Title : SFAM01.0

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

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Peak Number 36 unknown-03 Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.420 | 16.44 ug/L | 155020 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 43   |
| 2    |    |   | 2-Methyl-3-trans-propenylpyrazine   | 134 | C8H10N2 | 232255-41-3 | 38   |
| 3    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 38   |
| 4    |    |   | 5H-5-Methyl-6,7-dihydrocyclopent... | 134 | C8H10N2 | 023747-48-0 | 38   |
| 5    |    |   | Benzene, 1,2-diethyl-               | 134 | C10H14  | 000135-01-3 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

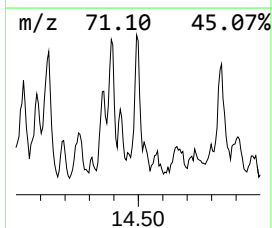
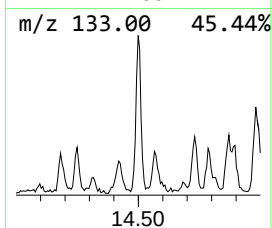
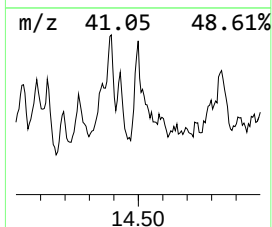
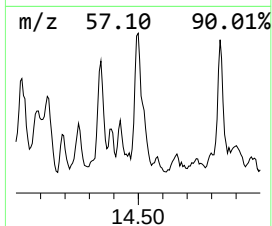
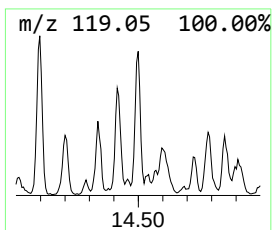
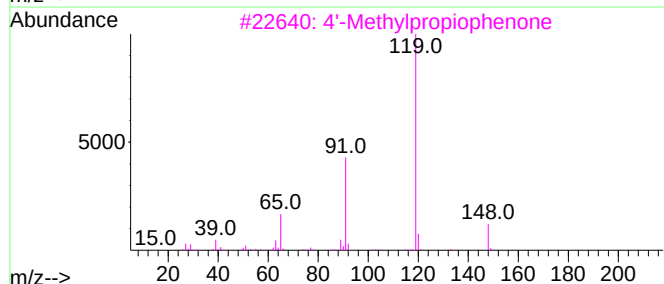
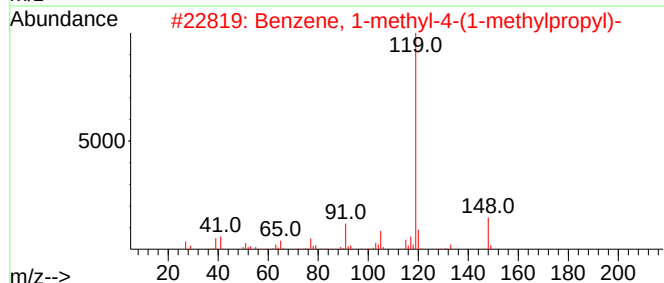
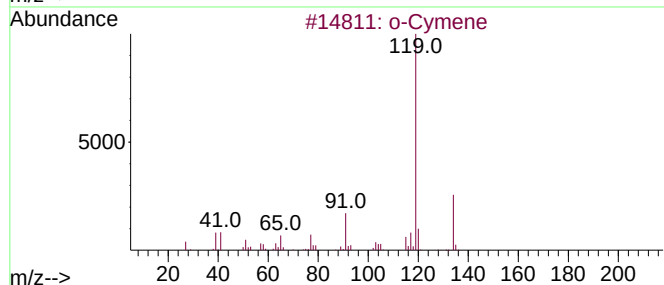
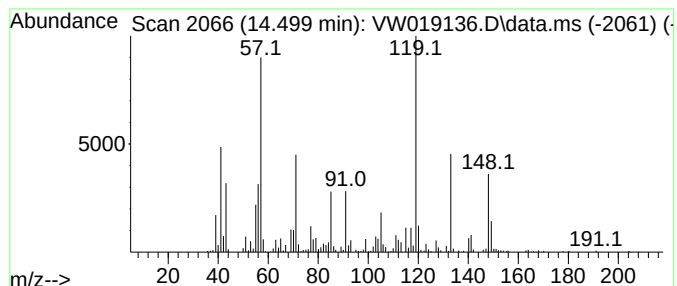
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 37 unknown-04 Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.499 | 44.03 ug/L | 415161 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 47   |
| 2    |      | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 46   |
| 3    |      | 4'-Methylpropiophenone              | 148 | C10H12O | 005337-93-9 | 38   |
| 4    |      | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 38   |
| 5    |      | Undecane, 3-methyl-                 | 170 | C12H26  | 001002-43-3 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

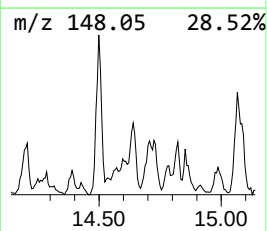
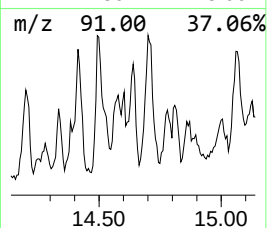
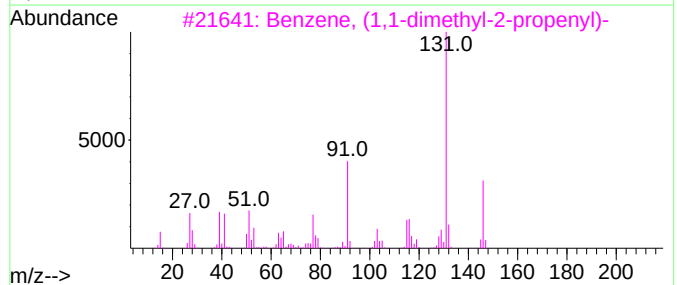
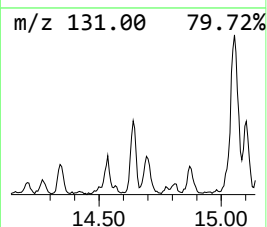
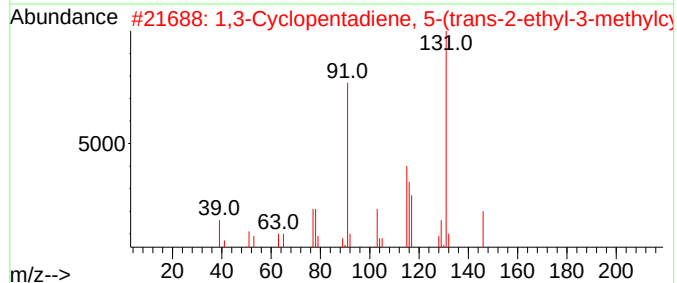
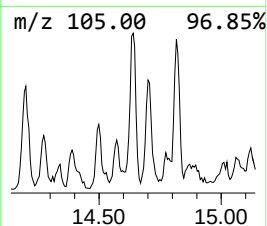
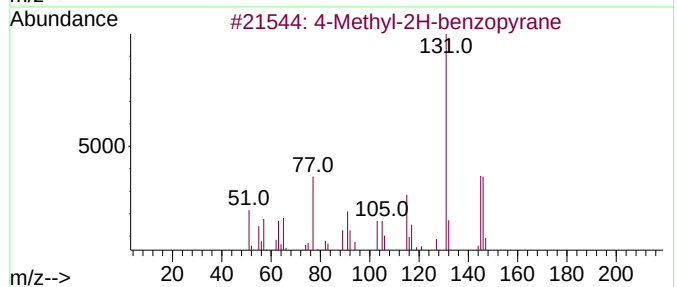
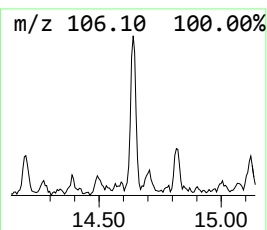
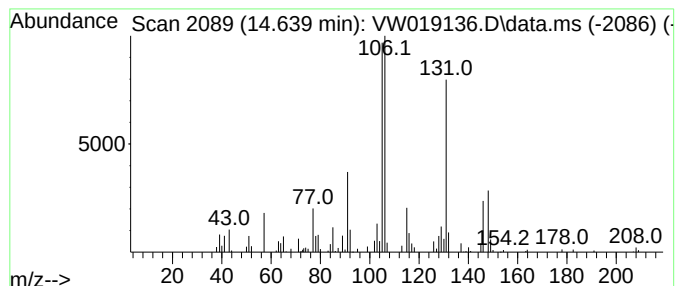
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 38 4-Methyl-2H-benzopyrane Concentration Rank 19

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.639 | 6.12 ug/L | 57709 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 4-Methyl-2H-benzopyrane             | 146 | C10H10O | 021776-94-3 | 55   |
| 2    |    |   | 1,3-Cyclopentadiene, 5-(trans-2-... | 146 | C11H14  | 079209-36-2 | 49   |
| 3    |    |   | Benzene, (1,1-dimethyl-2-propenyl)- | 146 | C11H14  | 018321-36-3 | 46   |
| 4    |    |   | 2-Propenal, 3-(4-methylphenyl)-     | 146 | C10H10O | 001504-75-2 | 45   |
| 5    |    |   | Benzene, 1-methyl-2-(1-methyl-2-... | 146 | C11H14  | 097664-19-2 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

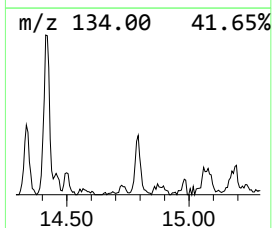
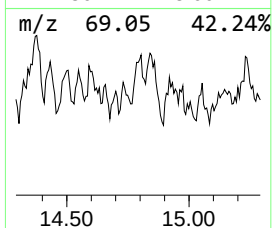
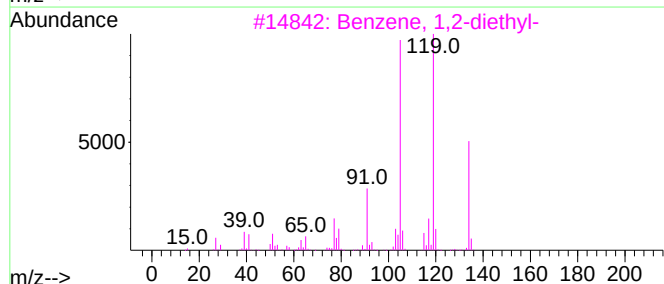
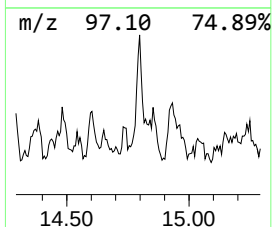
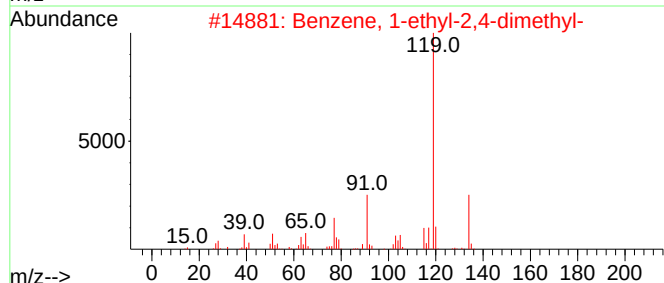
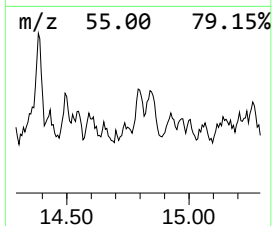
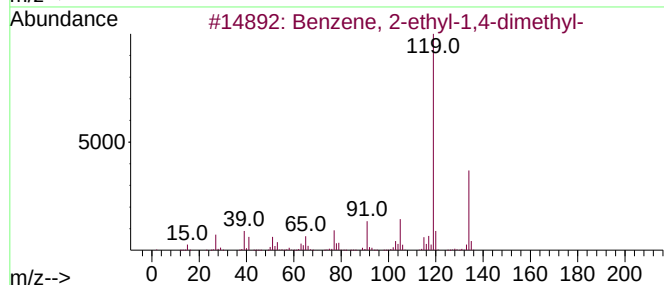
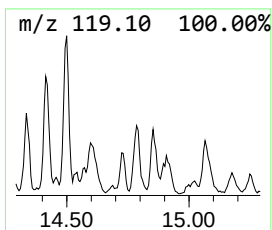
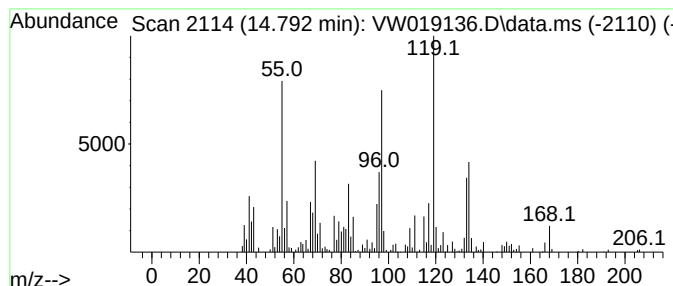
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 39 unknown-05 Concentration Rank 11

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.792 | 14.09 ug/L | 132885 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 38   |
| 2    |    |   | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 38   |
| 3    |    |   | Benzene, 1,2-diethyl-          | 134 | C10H14  | 000135-01-3 | 38   |
| 4    |    |   | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 38   |
| 5    |    |   | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

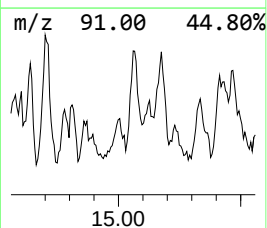
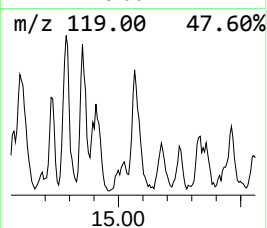
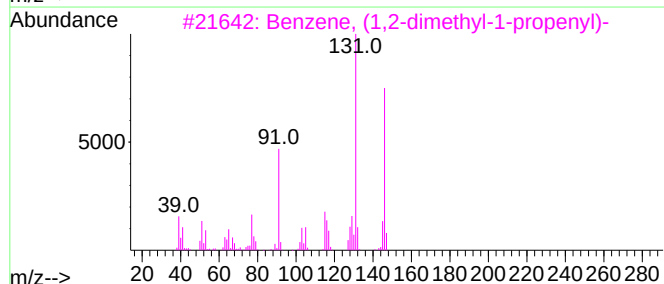
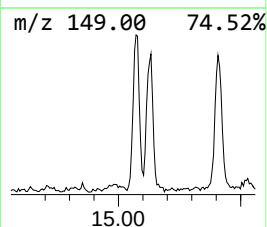
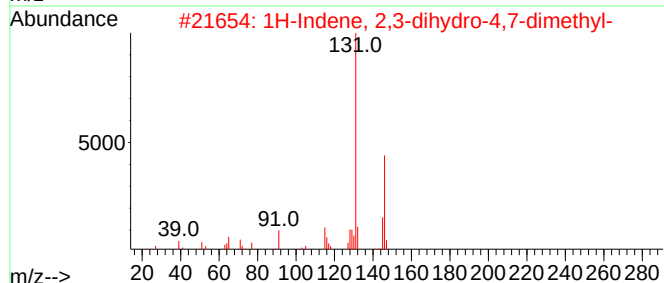
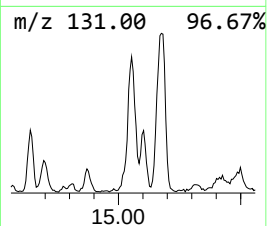
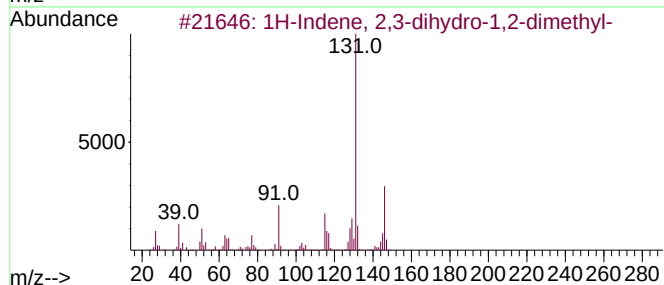
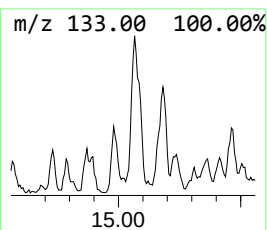
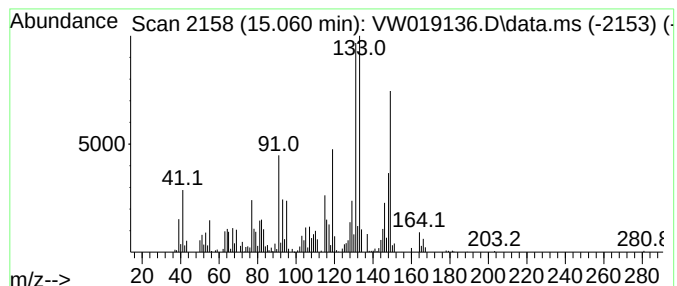
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Quant Title : SFAM01.0

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

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Peak Number 40 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.060 | 20.13 ug/L | 189791 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 60   |
| 2    |    |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 35   |
| 3    |    |   | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 35   |
| 4    |    |   | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 35   |
| 5    |    |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 35   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
Data File : VW019136.D  
Acq On : 04 Jun 2021 18:17  
Operator : SY/VA  
Sample : M2618-02  
Misc : 6.35G/10ML/MSVOA\_W/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
Quant Title : SFAM01.0

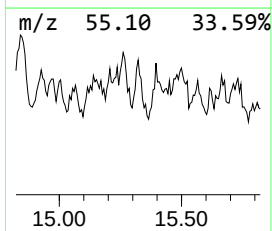
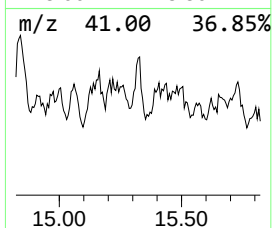
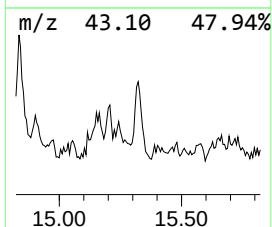
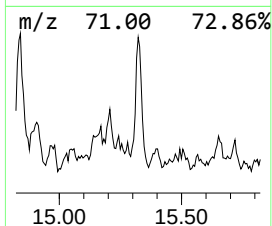
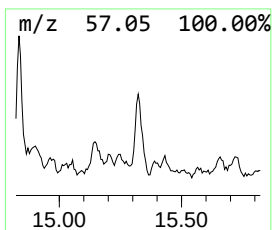
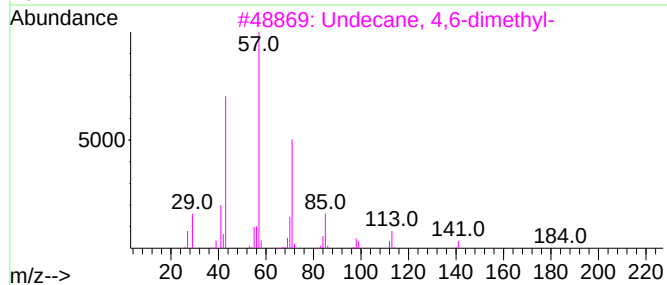
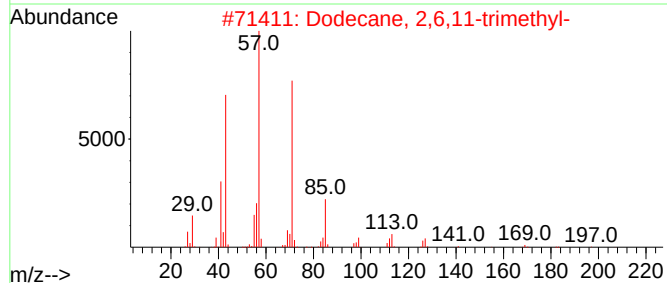
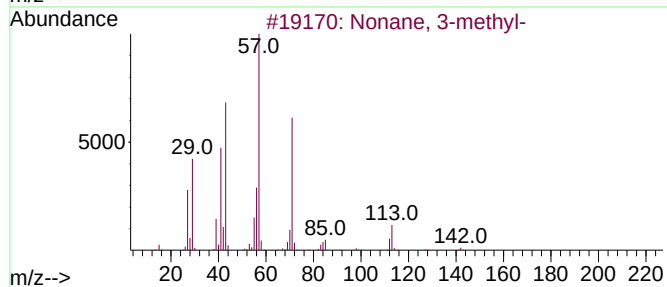
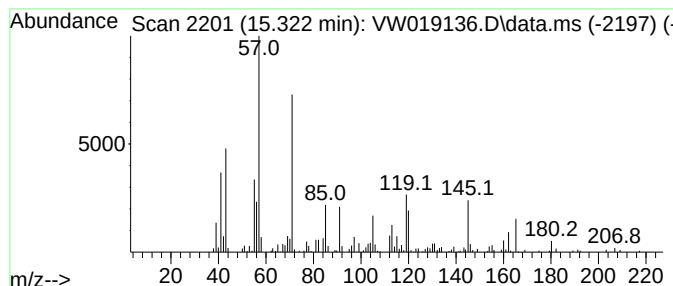
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 41 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.322 | 10.73 ug/L | 101132 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# | of 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------------|-----|---------|-------------|------|
| 1    |      | Nonane, 3-methyl-           | 142 | C10H22  | 005911-04-6 | 50   |
| 2    |      | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 43   |
| 3    |      | Undecane, 4,6-dimethyl-     | 184 | C13H28  | 017312-82-2 | 38   |
| 4    |      | Octane, 3,6-dimethyl-       | 142 | C10H22  | 015869-94-0 | 38   |
| 5    |      | Tridecane, 2-methyl-        | 198 | C14H30  | 001560-96-9 | 35   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW060421\  
 Data File : VW019136.D  
 Acq On : 04 Jun 2021 18:17  
 Operator : SY/VA  
 Sample : M2618-02  
 Misc : 6.35G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG5R1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM060221SMA.M  
 Quant Title : SFAM01.0

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| unknown-01         | 4.397  | 1.7     | ug/L  | 31127    | 1                     | 8.848  | 454655 | 25.0 |
| (DEL) Alkane: S... | 8.482  | 3.2     | ug/L  | 58230    | 1                     | 8.848  | 454655 | 25.0 |
| (DEL) Alkane: S... | 9.762  | 1.8     | ug/L  | 32872    | 1                     | 8.848  | 454655 | 25.0 |
| (DEL) Alkane: S... | 9.896  | 2.1     | ug/L  | 37948    | 1                     | 8.848  | 454655 | 25.0 |
| (DEL) Alkane: S... | 10.098 | 1.6     | ug/L  | 29876    | 1                     | 8.848  | 454655 | 25.0 |
| (DEL) Alkane: S... | 10.506 | 1.9     | ug/L  | 30024    | 2                     | 11.634 | 402355 | 25.0 |
| (DEL) Alkane: S... | 11.414 | 2.1     | ug/L  | 33151    | 2                     | 11.634 | 402355 | 25.0 |
| (DEL) Alkane: S... | 11.512 | 1.8     | ug/L  | 28569    | 2                     | 11.634 | 402355 | 25.0 |
| (DEL) Alkane: S... | 11.841 | 2.1     | ug/L  | 33387    | 2                     | 11.634 | 402355 | 25.0 |
| (DEL) Alkane: S... | 12.249 | 1.3     | ug/L  | 21301    | 2                     | 11.634 | 402355 | 25.0 |
| (DEL) Alkane: S... | 12.536 | 2.6     | ug/L  | 41546    | 2                     | 11.634 | 402355 | 25.0 |
| (DEL) Alkane: S... | 12.756 | 1.6     | ug/L  | 14817    | 3                     | 13.560 | 235736 | 25.0 |
| Benzene, propyl-   | 12.804 | 5.1     | ug/L  | 47700    | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 12.932 | 9.7     | ug/L  | 91544    | 3                     | 13.560 | 235736 | 25.0 |
| Benzene, 1-ethy... | 13.103 | 4.2     | ug/L  | 39603    | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 13.164 | 4.0     | ug/L  | 37458    | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 13.195 | 5.0     | ug/L  | 47431    | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 13.298 | 7.4     | ug/L  | 69697    | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 13.408 | 10.4    | ug/L  | 98111    | 3                     | 13.560 | 235736 | 25.0 |
| 1,3,2-Dioxaboro... | 13.481 | 5.2     | ug/L  | 48840    | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 13.615 | 30.0    | ug/L  | 282857   | 3                     | 13.560 | 235736 | 25.0 |
| Benzene, 1,2-di... | 13.719 | 11.2    | ug/L  | 105343   | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 13.768 | 4.7     | ug/L  | 43808    | 3                     | 13.560 | 235736 | 25.0 |
| Benzene, 1-meth... | 13.798 | 4.0     | ug/L  | 37308    | 3                     | 13.560 | 235736 | 25.0 |
| Benzene, (1-met... | 13.951 | 4.8     | ug/L  | 44880    | 3                     | 13.560 | 235736 | 25.0 |
| 4,7-Methanoinde... | 14.030 | 10.5    | ug/L  | 99227    | 3                     | 13.560 | 235736 | 25.0 |
| Benzene, 4-ethy... | 14.091 | 15.5    | ug/L  | 146196   | 3                     | 13.560 | 235736 | 25.0 |
| Benzene, (2-met... | 14.200 | 17.6    | ug/L  | 166091   | 3                     | 13.560 | 235736 | 25.0 |
| unknown-02         | 14.261 | 16.4    | ug/L  | 154234   | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 14.347 | 14.2    | ug/L  | 134019   | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: C... | 14.389 | 19.9    | ug/L  | 188000   | 3                     | 13.560 | 235736 | 25.0 |
| unknown-03         | 14.420 | 16.4    | ug/L  | 155020   | 3                     | 13.560 | 235736 | 25.0 |
| unknown-04         | 14.499 | 44.0    | ug/L  | 415161   | 3                     | 13.560 | 235736 | 25.0 |
| 4-Methyl-2H-ben... | 14.639 | 6.1     | ug/L  | 57709    | 3                     | 13.560 | 235736 | 25.0 |
| unknown-05         | 14.792 | 14.1    | ug/L  | 132885   | 3                     | 13.560 | 235736 | 25.0 |
| 1H-Indene, 2,3-... | 15.060 | 20.1    | ug/L  | 189791   | 3                     | 13.560 | 235736 | 25.0 |
| (DEL) Alkane: S... | 15.322 | 10.7    | ug/L  | 101132   | 3                     | 13.560 | 235736 | 25.0 |