

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
 Data File : VW026527.D  
 Acq On : 05 Jul 2023 12:54  
 Operator : SY/MD  
 Sample : 03501-05  
 Misc : 4.55g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46W2

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\SFAMWLM070323SMA.M  
 Title : SFAM01.0

Signal : TIC: VW026527.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         | 2.168       | 44            | 46          | 49           | rBV4     | 3116           | 3715          | 0.03%           | 0.003%        |
| 2         | 2.216       | 51            | 54          | 56           | rBV4     | 5029           | 6938          | 0.06%           | 0.006%        |
| 3         | 2.363       | 71            | 78          | 91           | rBV      | 121953         | 361833        | 3.10%           | 0.300%        |
| 4         | 2.631       | 117           | 122         | 124          | rBV6     | 7340           | 14971         | 0.13%           | 0.012%        |
| 5         | 2.905       | 156           | 167         | 168          | rBV      | 131287         | 301416        | 2.59%           | 0.250%        |
| 6         | 3.387       | 239           | 246         | 252          | rBV5     | 6392           | 12972         | 0.11%           | 0.011%        |
| 7         | 3.783       | 300           | 311         | 316          | rBV5     | 6139           | 20192         | 0.17%           | 0.017%        |
| 8         | 4.021       | 338           | 350         | 360          | rBV      | 263236         | 905620        | 7.77%           | 0.750%        |
| 9         | 4.119       | 360           | 366         | 379          | rVB      | 124922         | 355658        | 3.05%           | 0.295%        |
| 10        | 4.393       | 400           | 411         | 420          | rBV      | 17031          | 55032         | 0.47%           | 0.046%        |
| 11        | 4.923       | 487           | 498         | 500          | rBV2     | 17231          | 45572         | 0.39%           | 0.038%        |
| 12        | 5.009       | 504           | 512         | 530          | rVB2     | 47437          | 187452        | 1.61%           | 0.155%        |
| 13        | 5.344       | 562           | 567         | 569          | rVB6     | 1962           | 3566          | 0.03%           | 0.003%        |
| 14        | 5.423       | 574           | 580         | 581          | rBV5     | 8164           | 13808         | 0.12%           | 0.011%        |
| 15        | 5.783       | 637           | 639         | 643          | rVV5     | 2129           | 3561          | 0.03%           | 0.003%        |
| 16        | 5.947       | 657           | 666         | 673          | rBV4     | 10149          | 30914         | 0.27%           | 0.026%        |
| 17        | 6.124       | 687           | 695         | 696          | rVB8     | 2062           | 4017          | 0.03%           | 0.003%        |
| 18        | 6.216       | 702           | 710         | 723          | rVB      | 39111          | 115692        | 0.99%           | 0.096%        |
| 19        | 6.728       | 792           | 794         | 800          | rVB7     | 3171           | 5638          | 0.05%           | 0.005%        |
| 20        | 6.978       | 829           | 835         | 836          | rBV6     | 4714           | 7337          | 0.06%           | 0.006%        |
| 21        | 6.996       | 836           | 838         | 843          | rVB6     | 4070           | 5397          | 0.05%           | 0.004%        |
| 22        | 7.075       | 843           | 851         | 859          | rBV2     | 109294         | 317151        | 2.72%           | 0.263%        |
| 23        | 7.173       | 860           | 867         | 878          | rVB3     | 75013          | 225665        | 1.94%           | 0.187%        |
| 24        | 7.648       | 933           | 945         | 959          | rBV      | 529781         | 1292315       | 11.09%          | 1.070%        |
| 25        | 7.953       | 985           | 995         | 1003         | rVV5     | 32785          | 110870        | 0.95%           | 0.092%        |
| 26        | 8.026       | 1005          | 1007        | 1016         | rVB8     | 7974           | 16773         | 0.14%           | 0.014%        |
| 27        | 8.154       | 1021          | 1028        | 1035         | rBV2     | 20528          | 48308         | 0.41%           | 0.040%        |
| 28        | 8.276       | 1035          | 1048        | 1064         | rBV2     | 1030698        | 3158739       | 27.10%          | 2.616%        |
| 29        | 8.441       | 1067          | 1075        | 1078         | rBV7     | 9220           | 24926         | 0.21%           | 0.021%        |
| 30        | 8.569       | 1093          | 1096        | 1104         | rVB6     | 11257          | 24151         | 0.21%           | 0.020%        |
| 31        | 8.697       | 1113          | 1117        | 1126         | rBV3     | 11887          | 24777         | 0.21%           | 0.021%        |
| 32        | 8.843       | 1132          | 1141        | 1151         | rBV      | 1202499        | 2398996       | 20.58%          | 1.987%        |
| 33        | 9.075       | 1173          | 1179        | 1186         | rBV      | 34796          | 90172         | 0.77%           | 0.075%        |
| 34        | 9.276       | 1203          | 1212        | 1218         | rBV      | 734147         | 1573234       | 13.50%          | 1.303%        |
| 35        | 9.331       | 1218          | 1221        | 1227         | rVB3     | 108722         | 204383        | 1.75%           | 0.169%        |
| 36        | 9.605       | 1262          | 1266        | 1271         | rVB2     | 20315          | 35112         | 0.30%           | 0.029%        |

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 Sample : 03501-05  
 Misc : 4.55g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46W2

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\SFAMWLM070323SMA.M  
 Title : SFAM01.0

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 9.752  | 1284 | 1290 | 1296 | rBV4 | 30916   | 68162   | 0.58%  | 0.056% |
| 38 | 9.898  | 1309 | 1314 | 1318 | rBV4 | 27024   | 51151   | 0.44%  | 0.042% |
| 39 | 9.959  | 1319 | 1324 | 1327 | rVV3 | 50833   | 98668   | 0.85%  | 0.082% |
| 40 | 10.032 | 1331 | 1336 | 1342 | rVV  | 392242  | 717396  | 6.15%  | 0.594% |
| 41 | 10.093 | 1343 | 1346 | 1361 | rVB2 | 58145   | 142559  | 1.22%  | 0.118% |
| 42 | 10.325 | 1376 | 1384 | 1392 | rBV  | 1388063 | 2567717 | 22.03% | 2.127% |
| 43 | 10.502 | 1408 | 1413 | 1419 | rVB3 | 41810   | 87872   | 0.75%  | 0.073% |
| 44 | 10.575 | 1420 | 1425 | 1435 | rVV  | 238717  | 433168  | 3.72%  | 0.359% |
| 45 | 10.660 | 1436 | 1439 | 1444 | rVB2 | 37779   | 65899   | 0.57%  | 0.055% |
| 46 | 10.764 | 1451 | 1456 | 1459 | rBV3 | 28539   | 53161   | 0.46%  | 0.044% |
| 47 | 10.922 | 1476 | 1482 | 1493 | rBV2 | 451735  | 862218  | 7.40%  | 0.714% |
| 48 | 11.032 | 1497 | 1500 | 1504 | rVV  | 43382   | 61716   | 0.53%  | 0.051% |
| 49 | 11.111 | 1510 | 1513 | 1515 | rBV3 | 24147   | 30963   | 0.27%  | 0.026% |
| 50 | 11.178 | 1520 | 1524 | 1527 | rBV  | 56527   | 92642   | 0.79%  | 0.077% |
| 51 | 11.227 | 1528 | 1532 | 1538 | rBV  | 108918  | 211021  | 1.81%  | 0.175% |
| 52 | 11.282 | 1539 | 1541 | 1544 | rBV3 | 40216   | 58674   | 0.50%  | 0.049% |
| 53 | 11.507 | 1574 | 1578 | 1586 | rVB  | 119653  | 191486  | 1.64%  | 0.159% |
| 54 | 11.629 | 1591 | 1598 | 1606 | rBV  | 1437177 | 2418585 | 20.75% | 2.003% |
| 55 | 11.727 | 1611 | 1614 | 1618 | rBV  | 76772   | 101697  | 0.87%  | 0.084% |
| 56 | 11.843 | 1624 | 1633 | 1635 | rBV3 | 175778  | 389988  | 3.35%  | 0.323% |
| 57 | 12.056 | 1665 | 1668 | 1673 | rVB3 | 112680  | 183945  | 1.58%  | 0.152% |
| 58 | 12.135 | 1674 | 1681 | 1687 | rBV3 | 360371  | 848938  | 7.28%  | 0.703% |
| 59 | 12.251 | 1695 | 1700 | 1704 | rVB  | 473354  | 773145  | 6.63%  | 0.640% |
| 60 | 12.361 | 1704 | 1718 | 1726 | rBV4 | 563688  | 2182017 | 18.72% | 1.807% |
| 61 | 12.501 | 1738 | 1741 | 1745 | rVB3 | 208522  | 269509  | 2.31%  | 0.223% |
| 62 | 12.690 | 1766 | 1772 | 1778 | rBV2 | 697134  | 1420491 | 12.19% | 1.176% |
| 63 | 12.775 | 1783 | 1786 | 1793 | rVB4 | 481306  | 859483  | 7.37%  | 0.712% |
| 64 | 12.855 | 1793 | 1799 | 1803 | rBV4 | 348321  | 778261  | 6.68%  | 0.645% |
| 65 | 12.934 | 1805 | 1812 | 1817 | rBV5 | 860505  | 2187815 | 18.77% | 1.812% |
| 66 | 12.989 | 1818 | 1821 | 1826 | rVB3 | 499760  | 758741  | 6.51%  | 0.628% |
| 67 | 13.038 | 1826 | 1829 | 1830 | rBV3 | 83017   | 102255  | 0.88%  | 0.085% |
| 68 | 13.074 | 1831 | 1835 | 1839 | rBV  | 602140  | 870751  | 7.47%  | 0.721% |
| 69 | 13.123 | 1839 | 1843 | 1846 | rBV3 | 560157  | 930703  | 7.98%  | 0.771% |
| 70 | 13.160 | 1846 | 1849 | 1855 | rVB3 | 484058  | 834020  | 7.16%  | 0.691% |
| 71 | 13.288 | 1863 | 1870 | 1875 | rBV  | 881791  | 1574689 | 13.51% | 1.304% |
| 72 | 13.342 | 1875 | 1879 | 1882 | rBV  | 641059  | 978827  | 8.40%  | 0.811% |
| 73 | 13.446 | 1887 | 1896 | 1899 | rVV7 | 1458096 | 3112499 | 26.70% | 2.578% |
| 74 | 13.477 | 1899 | 1901 | 1907 | rVB5 | 621750  | 942108  | 8.08%  | 0.780% |
| 75 | 13.556 | 1909 | 1914 | 1917 | rBV  | 803039  | 1260699 | 10.82% | 1.044% |
| 76 | 13.696 | 1931 | 1937 | 1946 | rBV6 | 704071  | 2024384 | 17.37% | 1.677% |

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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

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Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |         |          |         |        |
|-----|--------|------|------|------|------|---------|----------|---------|--------|
| 77  | 13.794 | 1950 | 1953 | 1957 | rBV  | 812066  | 1252317  | 10.74%  | 1.037% |
| 78  | 13.873 | 1958 | 1966 | 1970 | rBV4 | 3017647 | 6446806  | 55.31%  | 5.339% |
| 79  | 13.916 | 1970 | 1973 | 1978 | rVB3 | 977472  | 1320481  | 11.33%  | 1.094% |
| 80  | 13.976 | 1979 | 1983 | 1986 | rBV2 | 1142076 | 1593247  | 13.67%  | 1.320% |
| 81  | 14.019 | 1987 | 1990 | 1994 | rBV4 | 546762  | 1029355  | 8.83%   | 0.853% |
| 82  | 14.129 | 2005 | 2008 | 2014 | rVB2 | 1520915 | 2428817  | 20.84%  | 2.012% |
| 83  | 14.190 | 2014 | 2018 | 2022 | rBV3 | 998702  | 1634257  | 14.02%  | 1.354% |
| 84  | 14.257 | 2024 | 2029 | 2035 | rBV4 | 1493493 | 2542793  | 21.82%  | 2.106% |
| 85  | 14.312 | 2035 | 2038 | 2042 | rBV3 | 592588  | 758676   | 6.51%   | 0.628% |
| 86  | 14.379 | 2043 | 2049 | 2054 | rBV3 | 3818715 | 6907555  | 59.26%  | 5.721% |
| 87  | 14.489 | 2064 | 2067 | 2069 | rBV3 | 397915  | 540505   | 4.64%   | 0.448% |
| 88  | 14.543 | 2073 | 2076 | 2081 | rVB3 | 1473467 | 2428603  | 20.84%  | 2.011% |
| 89  | 14.653 | 2091 | 2094 | 2098 | rBV  | 817962  | 1080161  | 9.27%   | 0.895% |
| 90  | 14.732 | 2104 | 2107 | 2112 | rBV4 | 787798  | 1193475  | 10.24%  | 0.988% |
| 91  | 14.793 | 2112 | 2117 | 2119 | rBV2 | 2350249 | 4096373  | 35.14%  | 3.393% |
| 92  | 14.836 | 2120 | 2124 | 2134 | rVB4 | 4933721 | 11533671 | 98.95%  | 9.552% |
| 93  | 15.117 | 2167 | 2170 | 2173 | rBV3 | 698103  | 903379   | 7.75%   | 0.748% |
| 94  | 15.318 | 2198 | 2203 | 2210 | rVB  | 6943586 | 11656020 | 100.00% | 9.654% |
| 95  | 15.391 | 2210 | 2215 | 2220 | rBV4 | 1477760 | 3383198  | 29.03%  | 2.802% |
| 96  | 15.501 | 2230 | 2233 | 2239 | rVB4 | 1265458 | 2338252  | 20.06%  | 1.937% |
| 97  | 15.574 | 2239 | 2245 | 2250 | rBV6 | 1053552 | 2451807  | 21.03%  | 2.031% |
| 98  | 15.623 | 2250 | 2253 | 2255 | rBV3 | 820618  | 1205368  | 10.34%  | 0.998% |
| 99  | 15.720 | 2266 | 2269 | 2278 | rVB4 | 1900893 | 3599071  | 30.88%  | 2.981% |
| 100 | 16.275 | 2355 | 2360 | 2368 | rVB  | 2540902 | 4812773  | 41.29%  | 3.986% |

Sum of corrected areas: 120741856



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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
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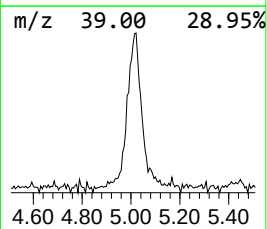
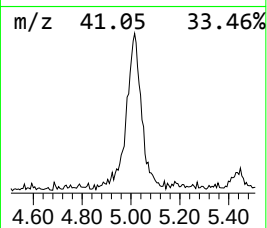
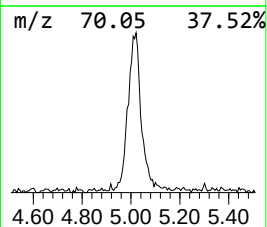
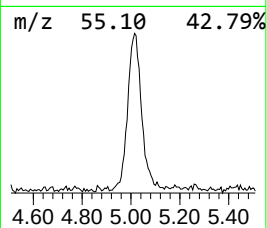
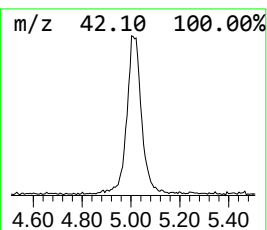
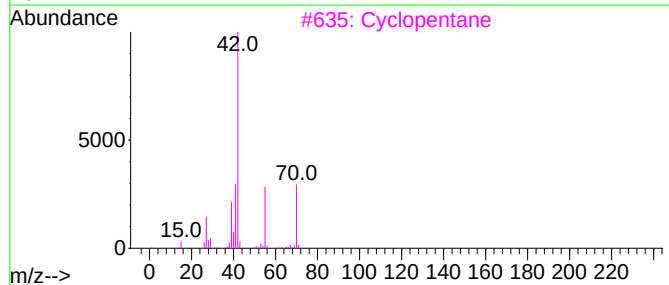
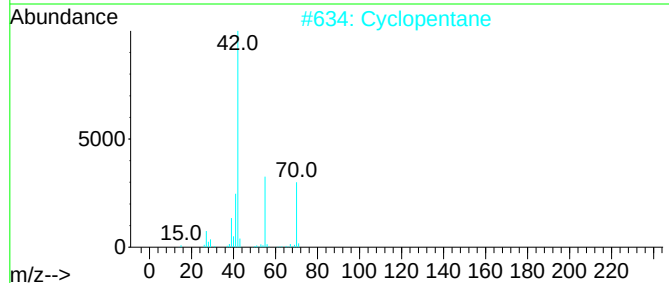
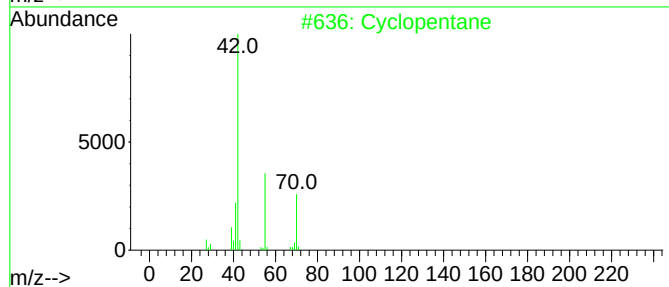
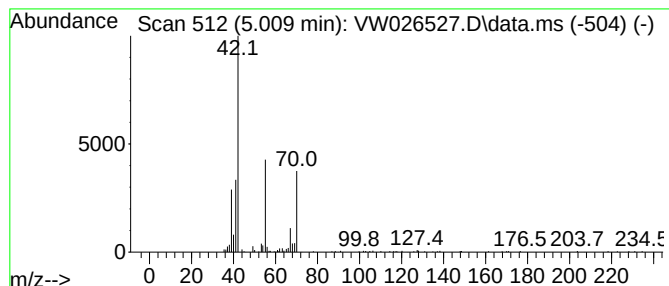
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Cyclic5.009 Concentration Rank 42

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 5.009 | 1.95 ug/L | 187452 | 1,4-Difluorobenzene | 8.843 |

| Hit# | of 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|------|----------------------|----|---------|-------------|------|
| 1    |      | Cyclopentane         | 70 | C5H10   | 000287-92-3 | 64   |
| 2    |      | Cyclopentane         | 70 | C5H10   | 000287-92-3 | 64   |
| 3    |      | Cyclopentane         | 70 | C5H10   | 000287-92-3 | 64   |
| 4    |      | 1-Pentene            | 70 | C5H10   | 000109-67-1 | 59   |
| 5    |      | Cyclobutane, methyl- | 70 | C5H10   | 000598-61-8 | 47   |



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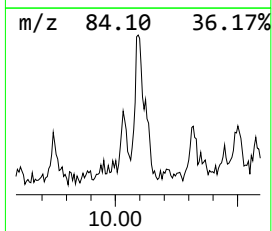
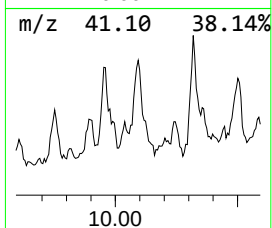
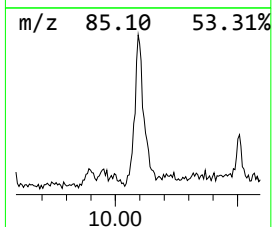
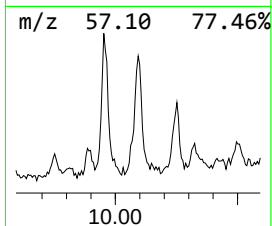
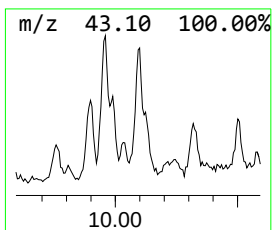
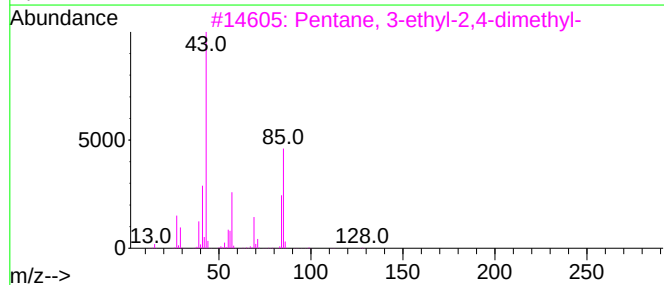
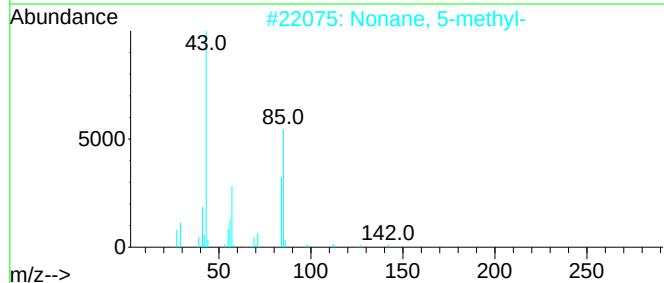
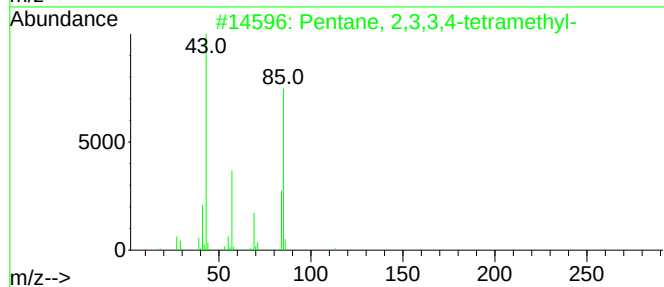
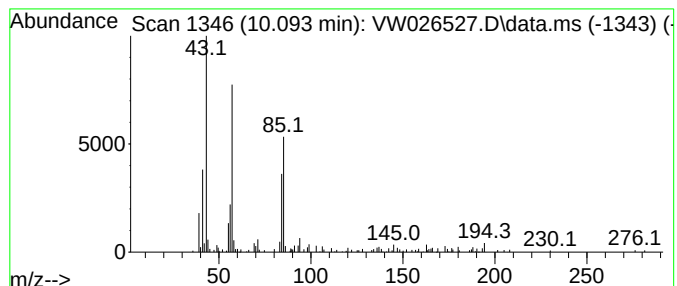
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 44

| R.T.   | EstConc   | Area   | Relative to ISTD    | R.T.  |
|--------|-----------|--------|---------------------|-------|
| 10.093 | 1.49 ug/L | 142559 | 1,4-Difluorobenzene | 8.843 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Pentane, 2,3,3,4-tetramethyl-      | 128 | C9H20    | 016747-38-9  | 50   |
| 2    |    |   | Nonane, 5-methyl-                  | 142 | C10H22   | 015869-85-9  | 49   |
| 3    |    |   | Pentane, 3-ethyl-2,4-dimethyl-     | 128 | C9H20    | 001068-87-7  | 47   |
| 4    |    |   | Oxalic acid, isohexyl propyl ester | 216 | C11H20O4 | 1000309-32-6 | 47   |
| 5    |    |   | Pentane, 3-ethyl-2,4-dimethyl-     | 128 | C9H20    | 001068-87-7  | 47   |



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ClientSampleId :  
A46W2

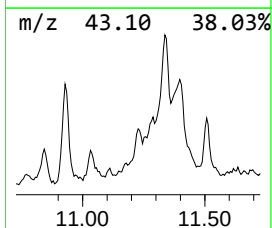
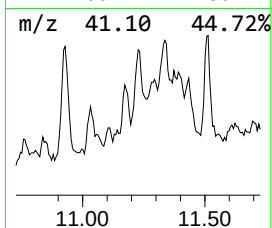
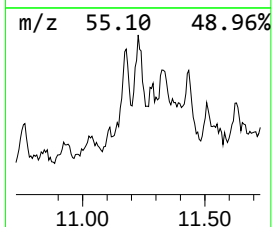
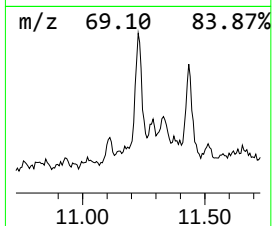
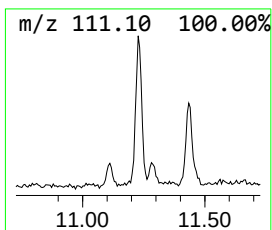
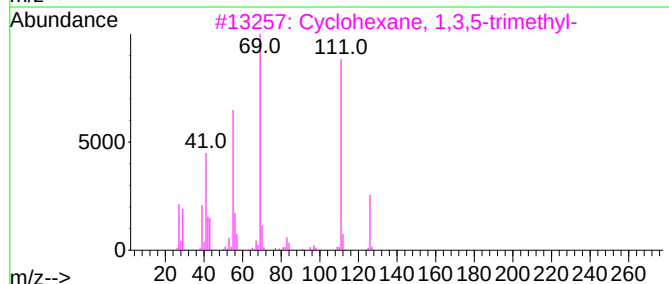
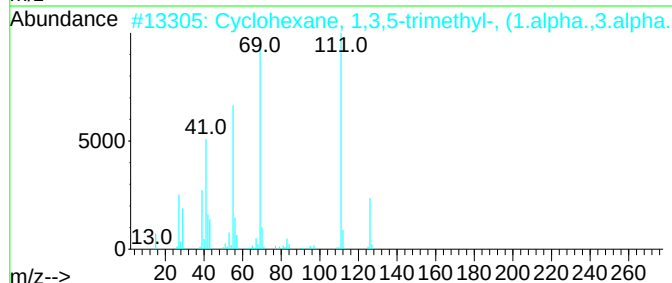
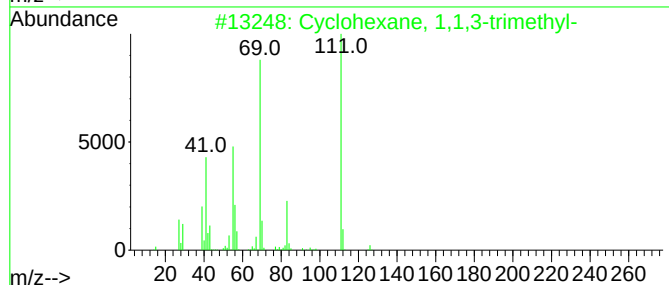
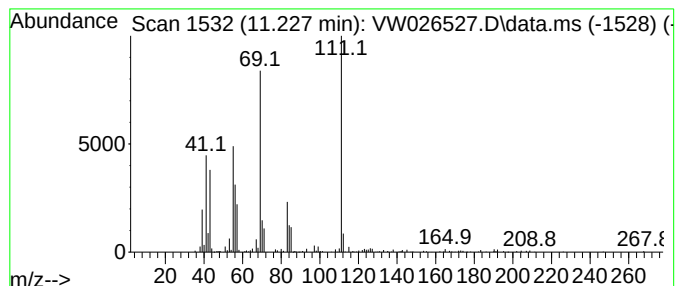
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Quant Title : SFAM01.0

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

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Peak Number 4 (DEL) Alkane: Cyclic11.227 Concentration Rank 39

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 11.227 | 2.18 ug/L | 211021 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,3-trimethyl-       | 126 | C9H18   | 003073-66-3 | 81   |
| 2    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-27-3 | 59   |
| 3    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 59   |
| 4    |    |   | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 59   |
| 5    |    |   | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

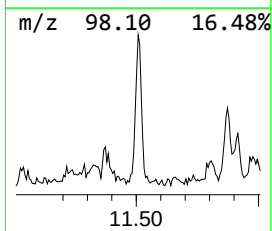
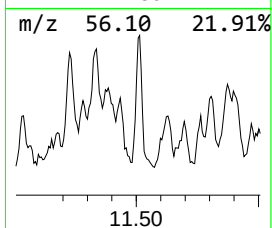
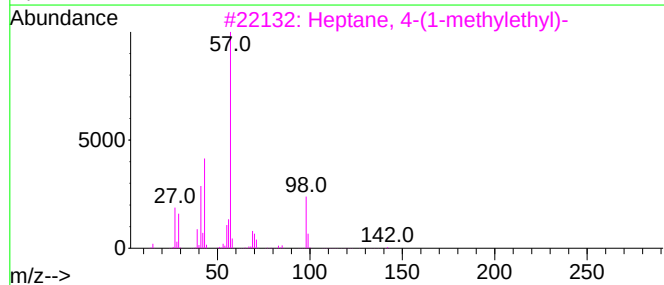
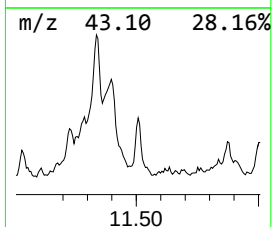
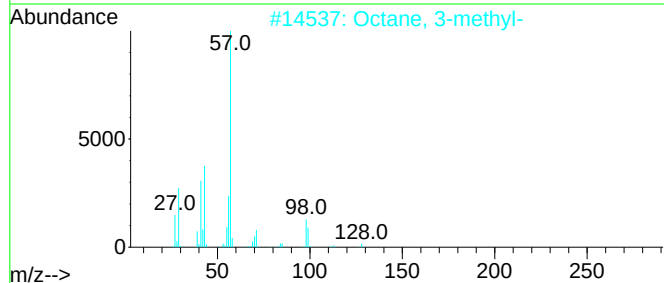
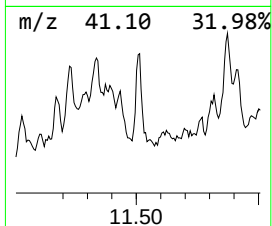
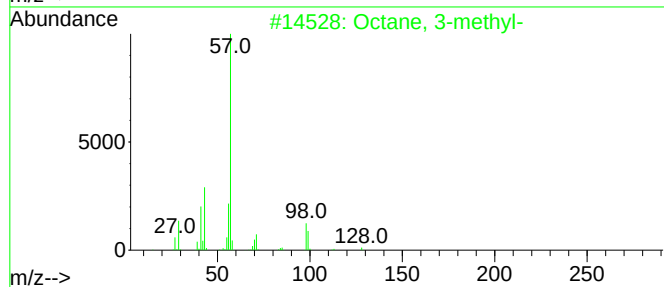
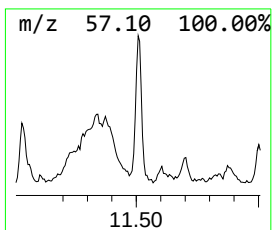
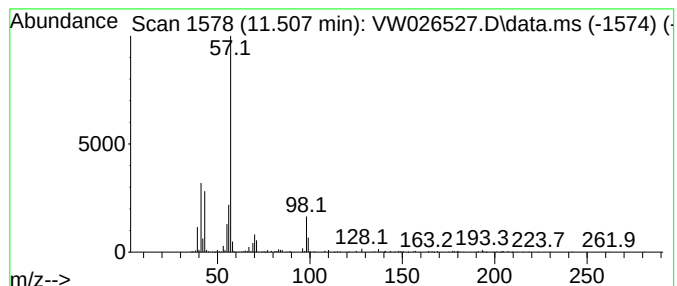
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 41

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 11.507 | 1.98 ug/L | 191486 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 3-methyl-           | 128 | C9H20   | 002216-33-3 | 72   |
| 2    |    |   | Octane, 3-methyl-           | 128 | C9H20   | 002216-33-3 | 64   |
| 3    |    |   | Heptane, 4-(1-methylethyl)- | 142 | C10H22  | 052896-87-4 | 50   |
| 4    |    |   | Heptane, 3,5-dimethyl-      | 128 | C9H20   | 000926-82-9 | 50   |
| 5    |    |   | Heptane, 2,5-dimethyl-      | 128 | C9H20   | 002216-30-0 | 50   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

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

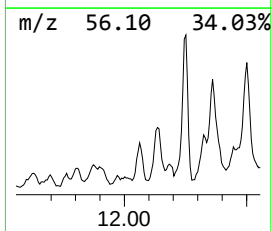
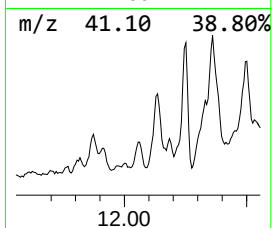
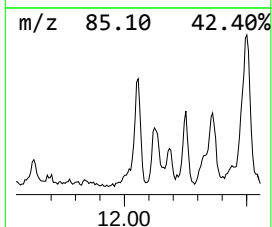
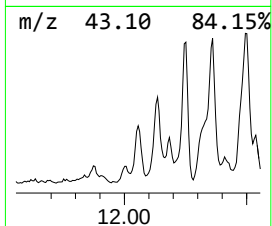
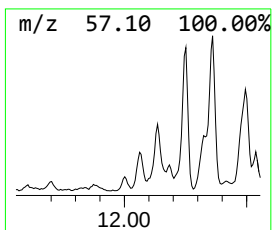
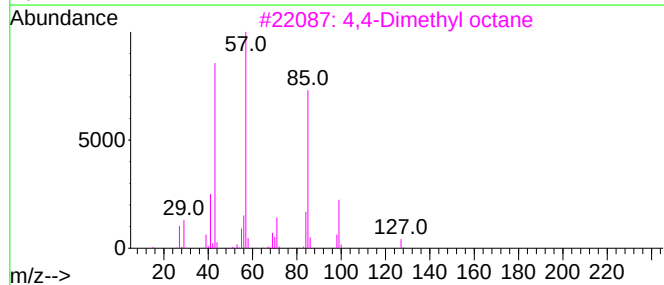
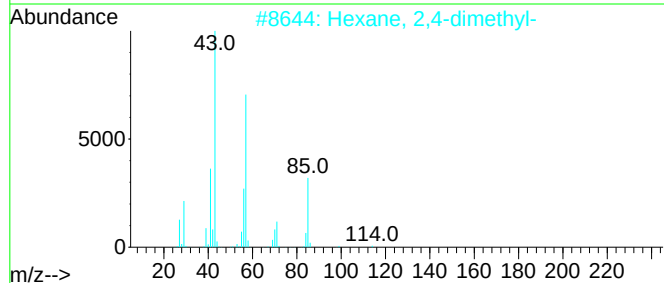
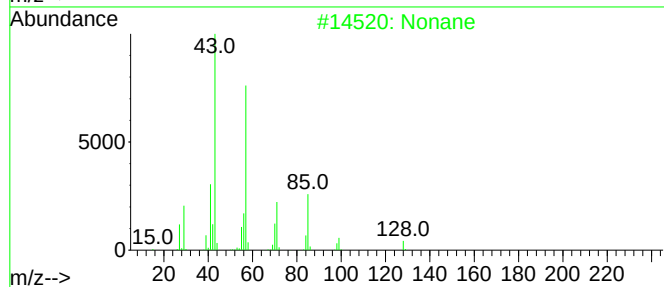
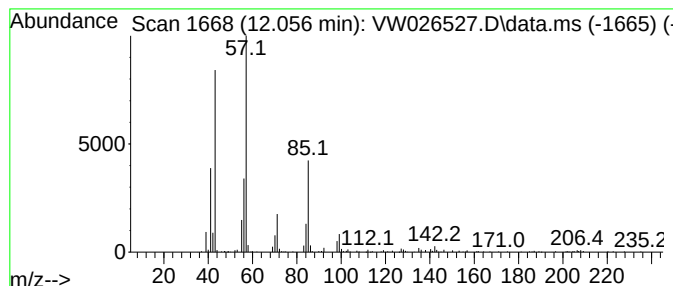
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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.056 | 1.90 ug/L | 183945 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Nonane                    | 128 | C9H20   | 000111-84-2 | 72   |
| 2    |    |   | Hexane, 2,4-dimethyl-     | 114 | C8H18   | 000589-43-5 | 72   |
| 3    |    |   | 4,4-Dimethyl octane       | 142 | C10H22  | 015869-95-1 | 72   |
| 4    |    |   | Heptane, 2,4,6-trimethyl- | 142 | C10H22  | 002613-61-8 | 68   |
| 5    |    |   | Decane, 2,5,6-trimethyl-  | 184 | C13H28  | 062108-23-0 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

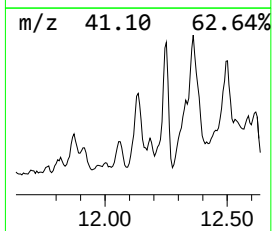
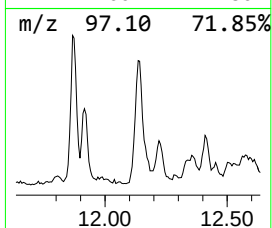
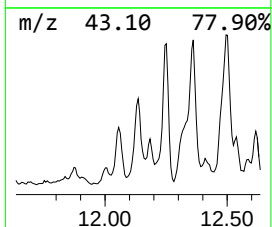
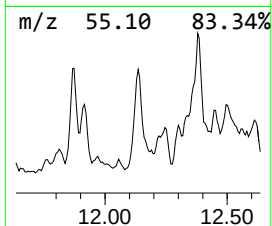
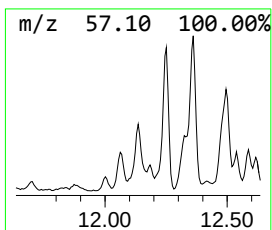
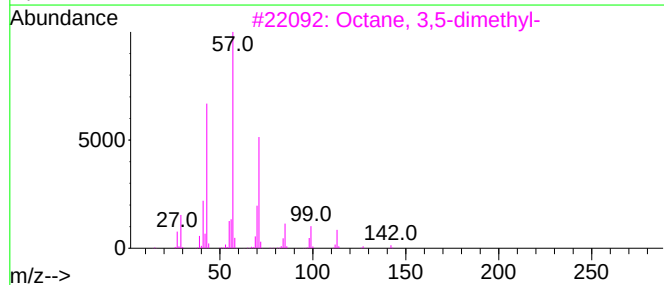
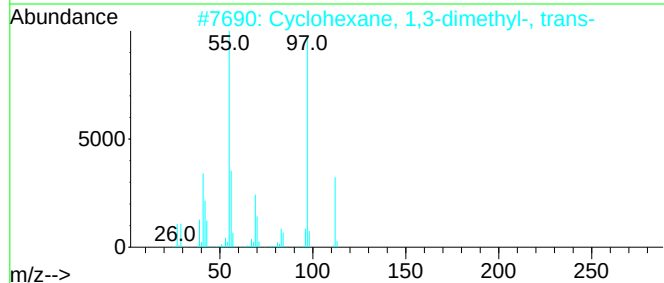
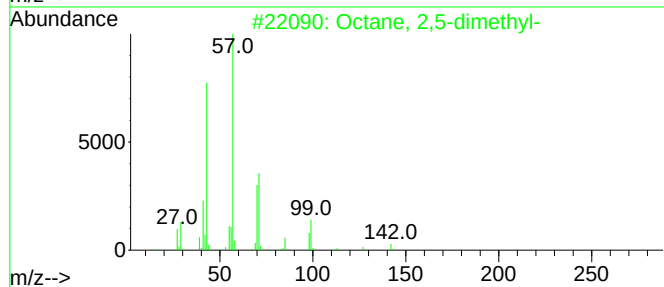
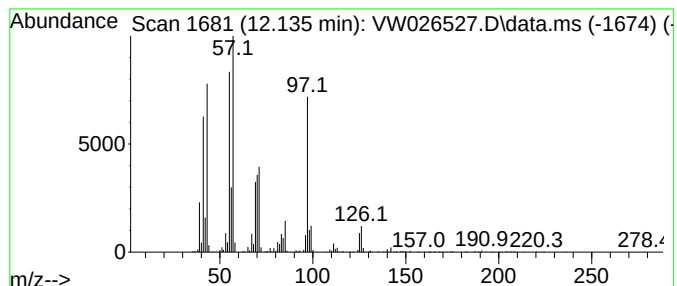
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.135 | 8.78 ug/L | 848938 | Chlorobenzene-d5 | 11.629 |

| Hit# | of                                   | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|--------------------------------------|---|--------------|-----|---------|-------------|------|
| 1    | Octane, 2,5-dimethyl-                |   |              | 142 | C10H22  | 015869-89-3 | 46   |
| 2    | Cyclohexane, 1,3-dimethyl-, trans-   |   |              | 112 | C8H16   | 002207-03-6 | 43   |
| 3    | Octane, 3,5-dimethyl-                |   |              | 142 | C10H22  | 015869-93-9 | 43   |
| 4    | Cyclohexane, 1,3-dimethyl-, cis-     |   |              | 112 | C8H16   | 000638-04-0 | 43   |
| 5    | 2-Undecene, 4,5-dimethyl-, [R*,S...] |   |              | 182 | C13H26  | 055170-93-9 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

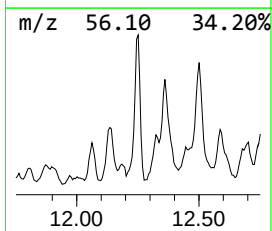
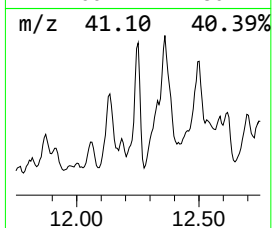
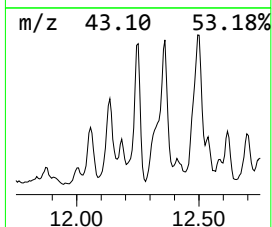
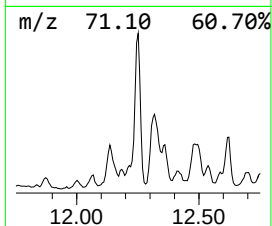
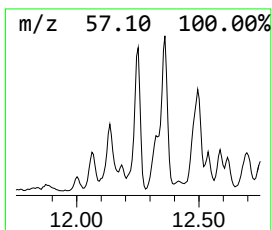
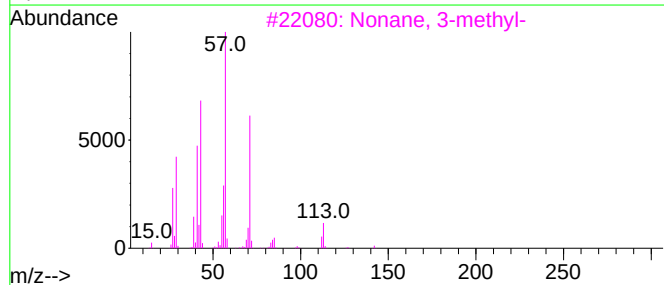
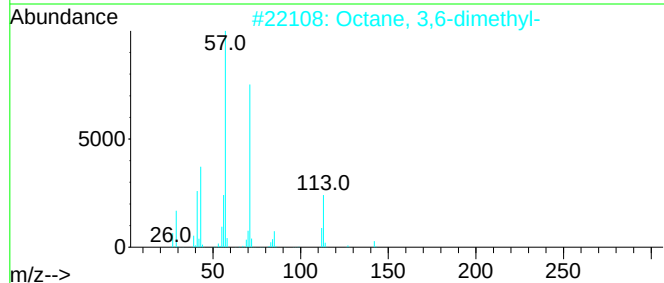
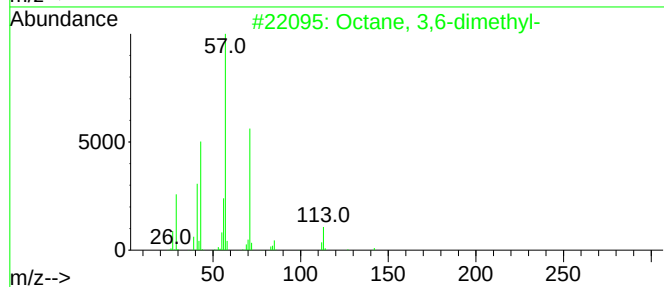
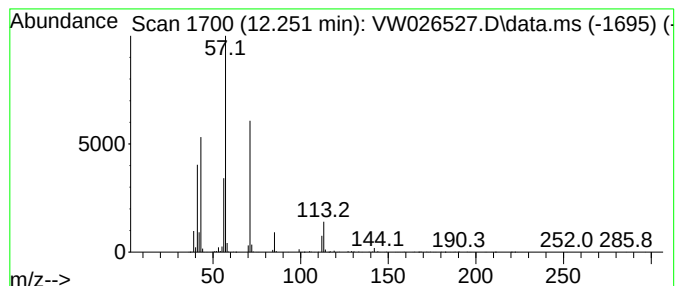
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.251 | 7.99 ug/L | 773145 | Chlorobenzene-d5 | 11.629 |

| Hit# | of 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------|-----|---------|-------------|------|
| 1    |      | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 91   |
| 2    |      | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 91   |
| 3    |      | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 87   |
| 4    |      | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 87   |
| 5    |      | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

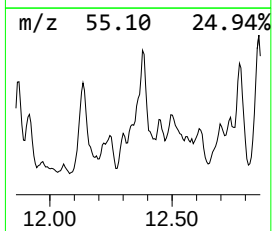
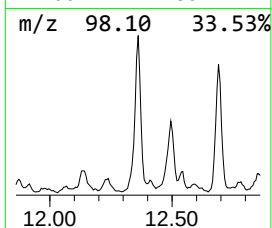
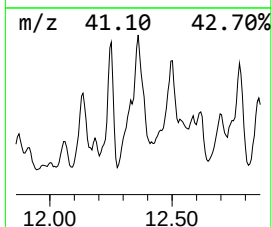
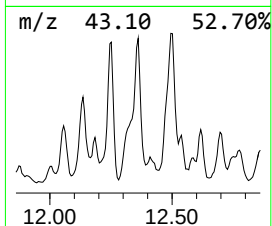
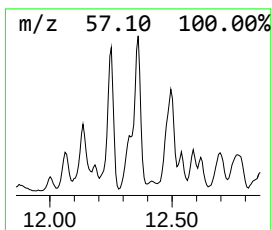
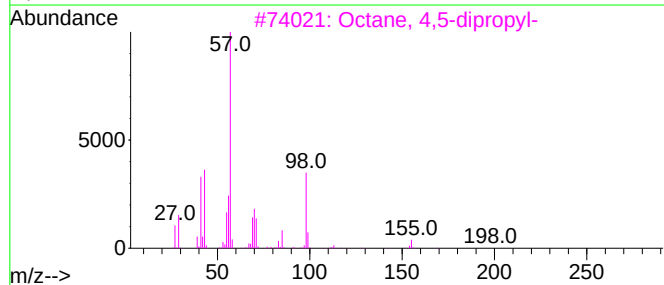
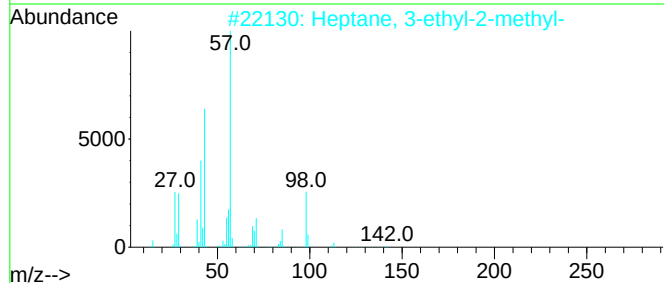
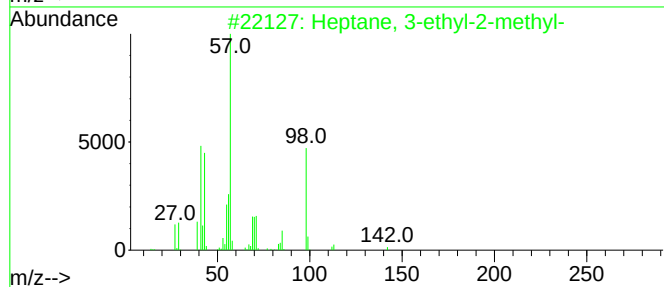
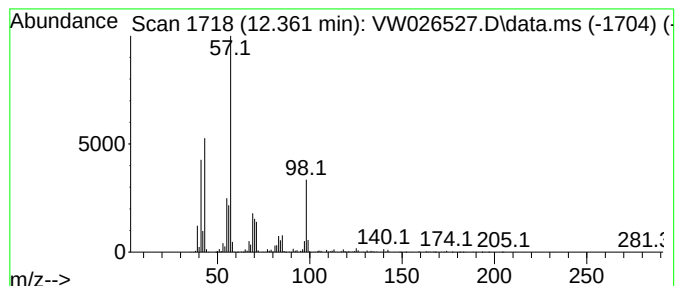
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.   | EstConc    | Area    | Relative to ISTD | R.T.   |
|--------|------------|---------|------------------|--------|
| 12.361 | 22.55 ug/L | 2182020 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 3-ethyl-2-methyl-  | 142 | C10H22  | 014676-29-0 | 90   |
| 2    |    |   | Heptane, 3-ethyl-2-methyl-  | 142 | C10H22  | 014676-29-0 | 83   |
| 3    |    |   | Octane, 4,5-dipropyl-       | 198 | C14H30  | 020905-05-9 | 78   |
| 4    |    |   | Octane, 2,3-dimethyl-       | 142 | C10H22  | 007146-60-3 | 64   |
| 5    |    |   | 3-Undecene, 6-methyl-, (E)- | 168 | C12H24  | 074630-52-7 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

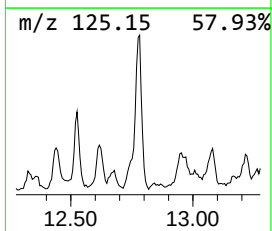
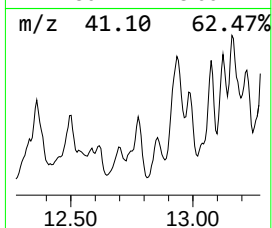
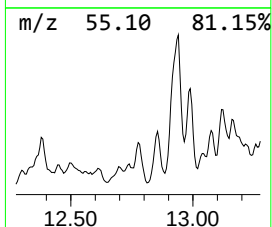
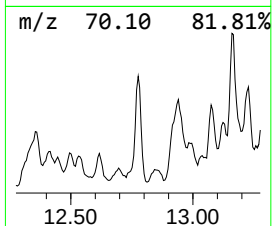
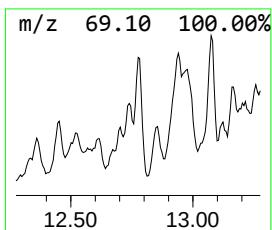
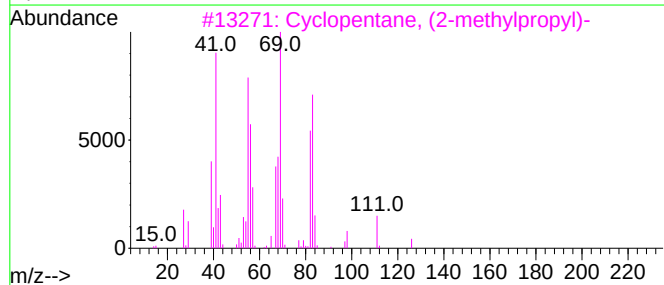
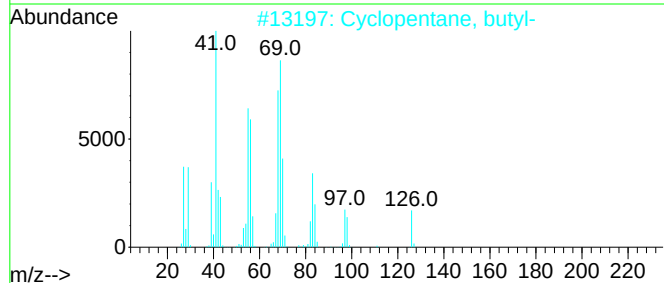
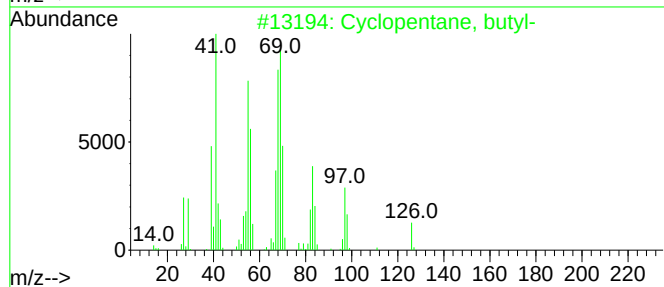
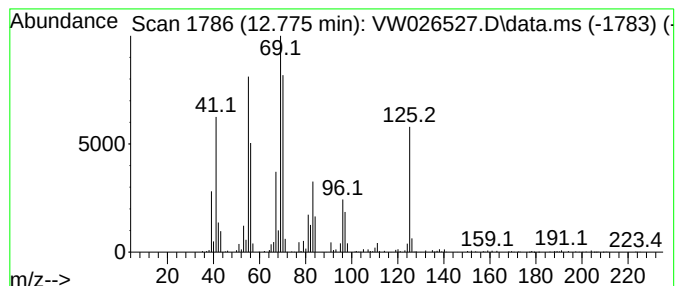
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Cyclic12.775 Concentration Rank 30

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.775 | 17.04 ug/L | 859483 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclopentane, butyl-                 | 126 | C9H18   | 002040-95-1 | 53   |
| 2    |      | Cyclopentane, butyl-                 | 126 | C9H18   | 002040-95-1 | 49   |
| 3    |      | Cyclopentane, (2-methylpropyl)-      | 126 | C9H18   | 003788-32-7 | 46   |
| 4    |      | Cyclohexane, 1,1,3,5-tetramethyl...  | 140 | C10H20  | 050876-31-8 | 43   |
| 5    |      | Cyclohexane, 1,2,3-trimethyl-, (...) | 126 | C9H18   | 001678-81-5 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

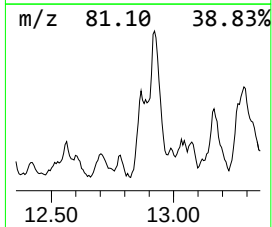
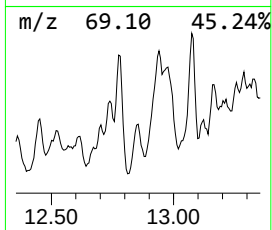
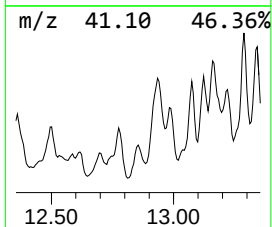
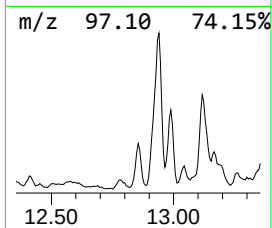
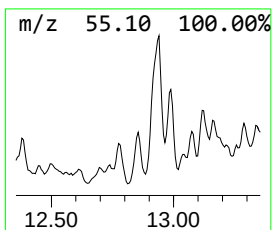
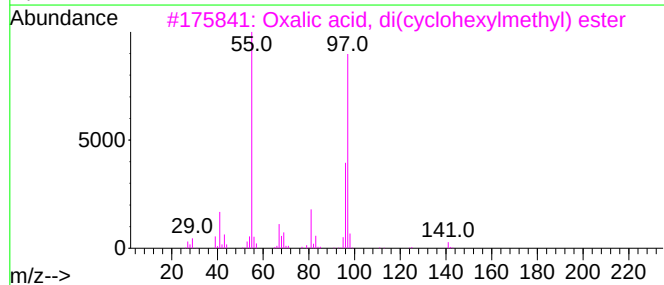
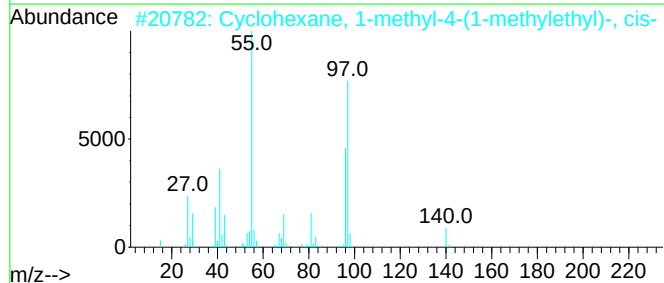
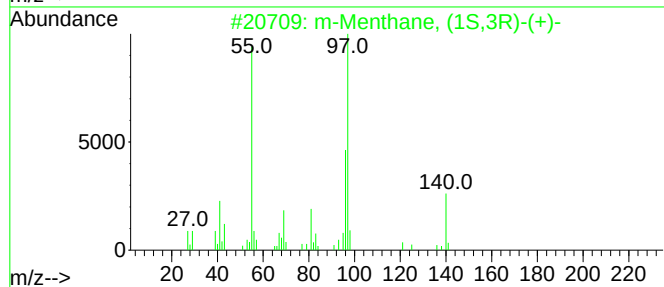
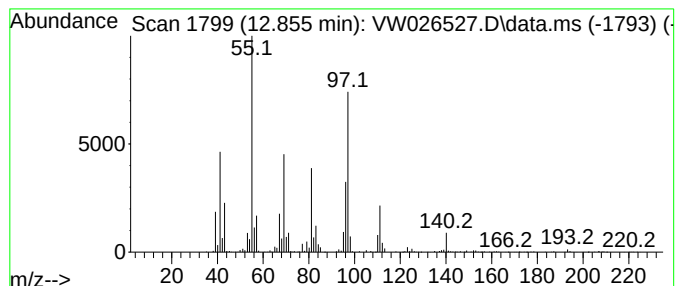
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Quant Title : SFAM01.0

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

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Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T.      | EstConc                             | Area   | Relative to ISTD       |          |              | R.T.   |
|-----------|-------------------------------------|--------|------------------------|----------|--------------|--------|
| 12.855    | 15.43 ug/L                          | 778261 | 1,4-Dichlorobenzene-d4 |          |              | 13.556 |
| Hit# of 5 | Tentative ID                        |        | MW                     | MolForm  | CAS#         | Qual   |
| 1         | m-Menthane, (1S,3R)-(+)-            |        | 140                    | C10H20   | 013837-66-6  | 72     |
| 2         | Cyclohexane, 1-methyl-4-(1-methy... |        | 140                    | C10H20   | 006069-98-3  | 68     |
| 3         | Oxalic acid, di(cyclohexylmethyl... |        | 282                    | C16H26O4 | 1000309-68-5 | 64     |
| 4         | m-Menthane, (1S,3S)-(+)-            |        | 140                    | C10H20   | 013837-67-7  | 64     |
| 5         | 1-Methyl-4-(1-methylethyl)-cyclo... |        | 140                    | C10H20   | 000099-82-1  | 64     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

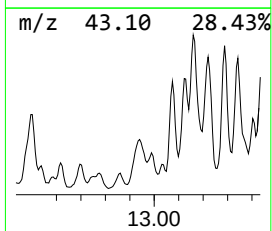
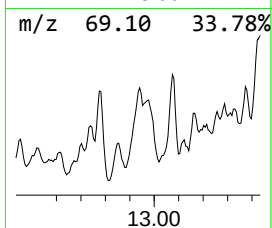
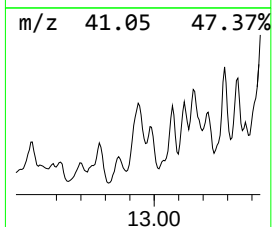
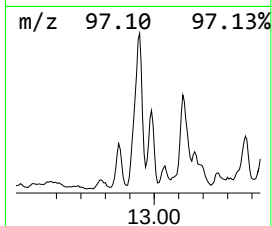
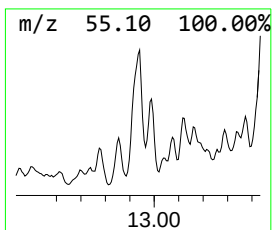
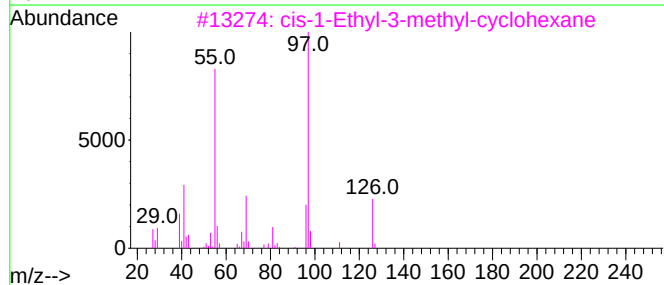
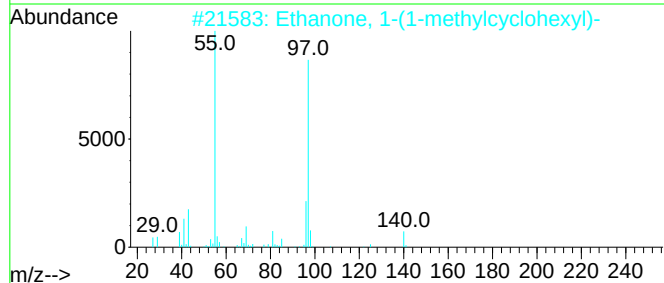
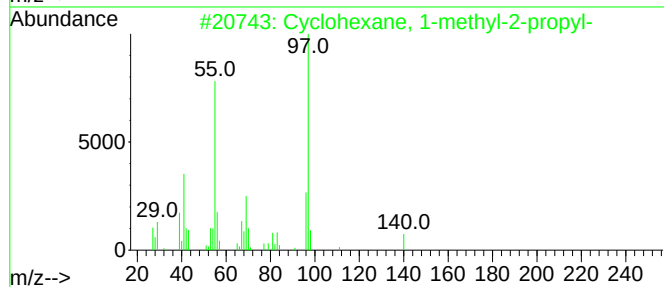
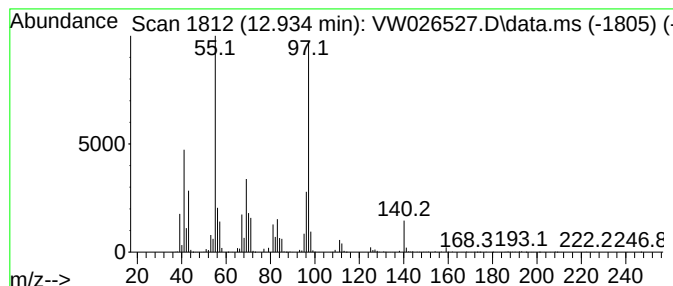
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Quant Title : SFAM01.0

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

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Peak Number 12 (DEL) Alkane: Cyclic12.934 Concentration Rank 14

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 12.934 | 43.38 ug/L | 2187820 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-methyl-2-propyl-   | 140 | C10H20  | 004291-79-6 | 87   |
| 2    |    |   | Ethanone, 1-(1-methylcyclohexyl)- | 140 | C9H16O  | 002890-62-2 | 83   |
| 3    |    |   | cis-1-Ethyl-3-methyl-cyclohexane  | 126 | C9H18   | 019489-10-2 | 64   |
| 4    |    |   | Cyclohexane, 1-methyl-3-propyl-   | 140 | C10H20  | 004291-80-9 | 64   |
| 5    |    |   | Cyclohexane, 1,1-dimethyl-        | 112 | C8H16   | 000590-66-9 | 58   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

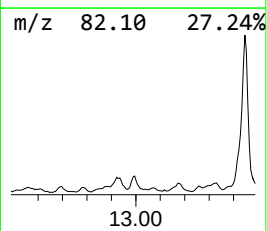
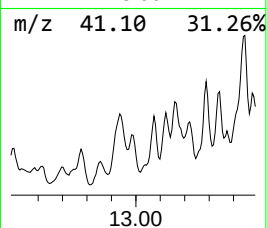
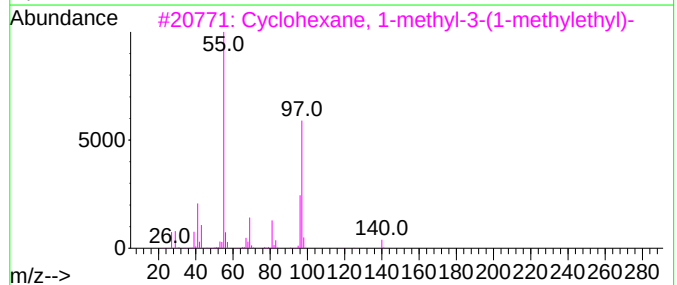
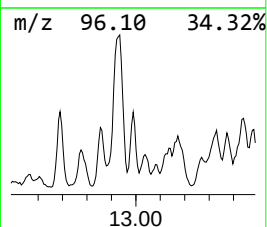
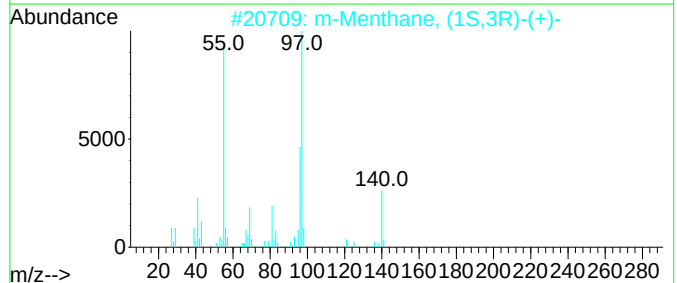
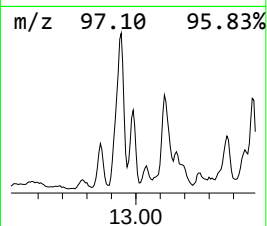
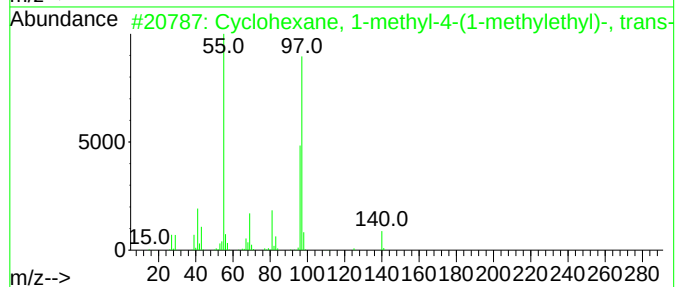
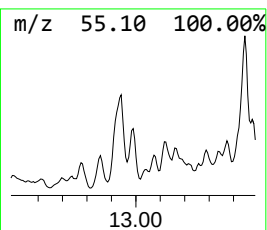
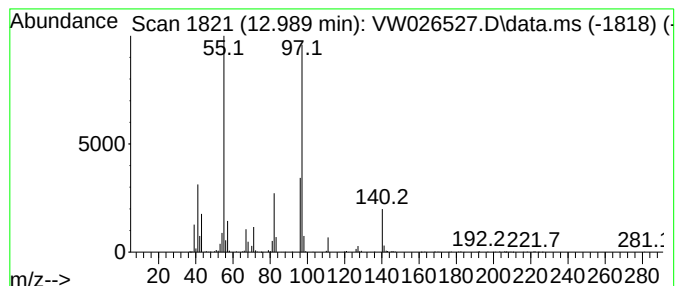
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Quant Title : SFAM01.0

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

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Peak Number 13 (DEL) Alkane: Cyclic12.989 Concentration Rank 33

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.989 | 15.05 ug/L | 758741 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20   | 001678-82-6  | 59   |
| 2    |    |   | m-Menthane, (1S,3R)-(+)-            | 140 | C10H20   | 013837-66-6  | 58   |
| 3    |    |   | Cyclohexane, 1-methyl-3-(1-methy... | 140 | C10H20   | 016580-24-8  | 53   |
| 4    |    |   | Oxalic acid, di(cyclohexylmethyl... | 282 | C16H26O4 | 1000309-68-5 | 53   |
| 5    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20   | 006069-98-3  | 53   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

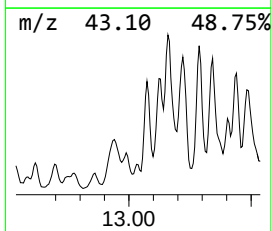
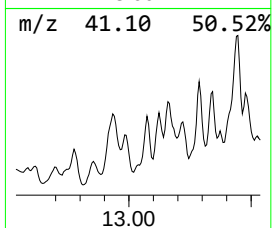
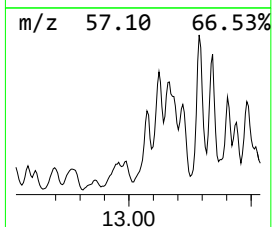
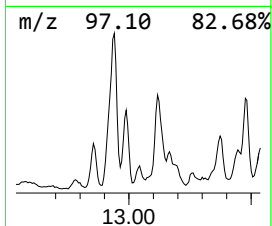
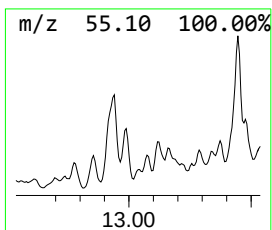
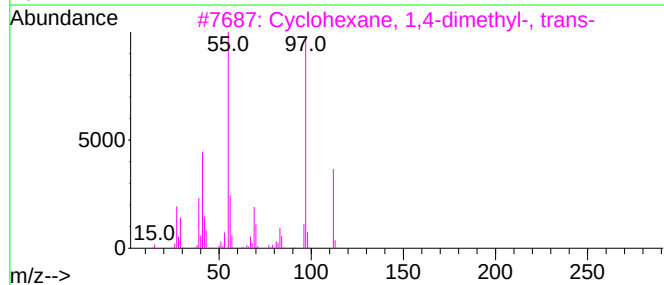
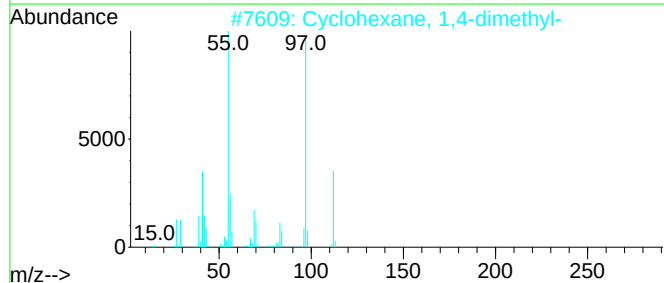
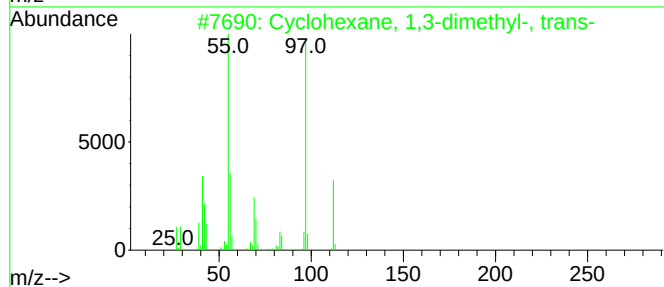
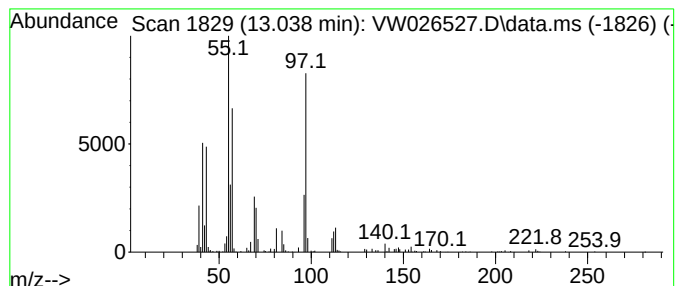
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Quant Title : SFAM01.0

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

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Peak Number 14 (DEL) Alkane: Cyclic13.038 Concentration Rank 40

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.038 | 2.03 ug/L | 102255 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16   | 002207-03-6 | 81   |
| 2    |      | Cyclohexane, 1,4-dimethyl-         | 112 | C8H16   | 000589-90-2 | 81   |
| 3    |      | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16   | 002207-04-7 | 72   |
| 4    |      | Cyclohexane, 1,4-dimethyl-, cis-   | 112 | C8H16   | 000624-29-3 | 64   |
| 5    |      | Cyclohexane, 1,4-dimethyl-, cis-   | 112 | C8H16   | 000624-29-3 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

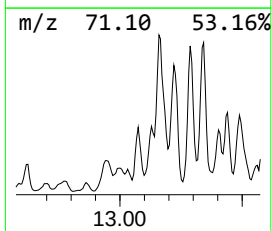
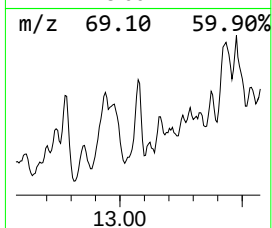
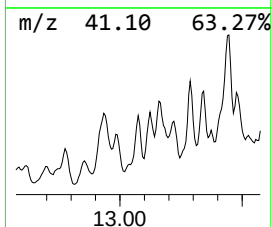
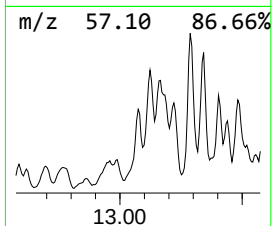
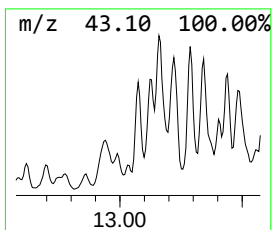
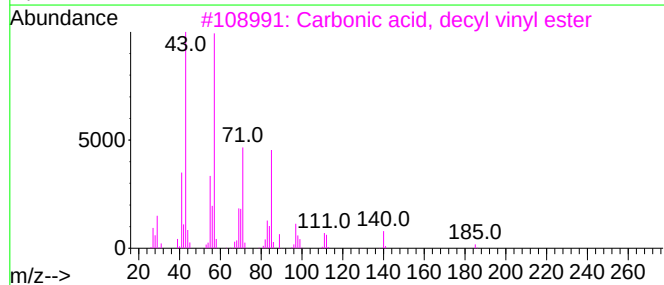
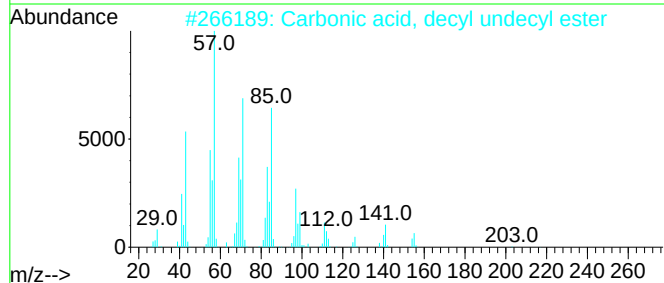
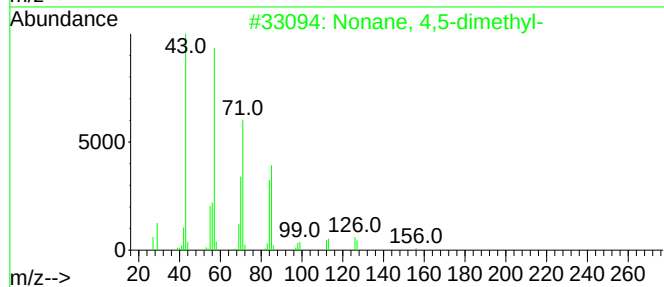
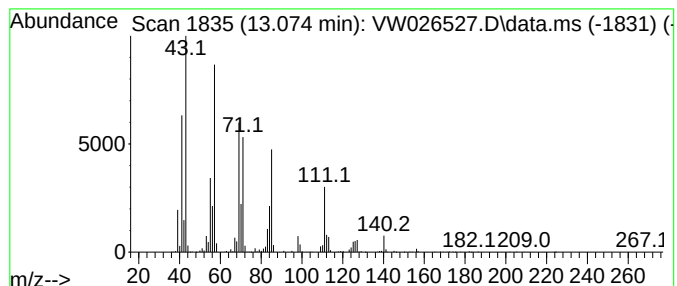
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 29

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.074 | 17.27 ug/L | 870751 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Nonane, 4,5-dimethyl-              | 156 | C11H24   | 017302-23-7  | 83   |
| 2    |    |   | Carbonic acid, decyl undecyl ester | 356 | C22H44O3 | 1000383-16-0 | 80   |
| 3    |    |   | Carbonic acid, decyl vinyl ester   | 228 | C13H24O3 | 1000383-25-7 | 72   |
| 4    |    |   | Tridecane                          | 184 | C13H28   | 000629-50-5  | 64   |
| 5    |    |   | 10-Methylnonadecane                | 282 | C20H42   | 056862-62-5  | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

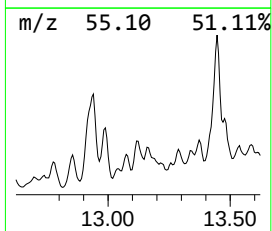
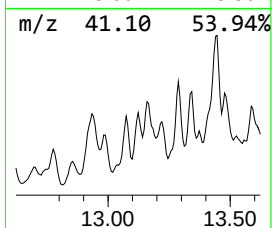
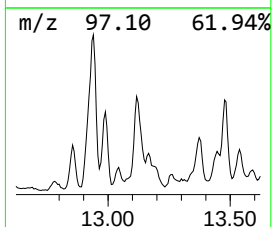
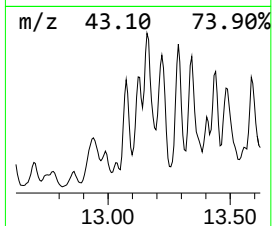
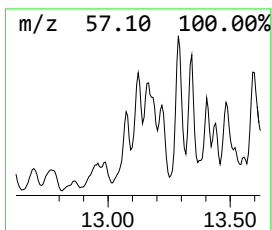
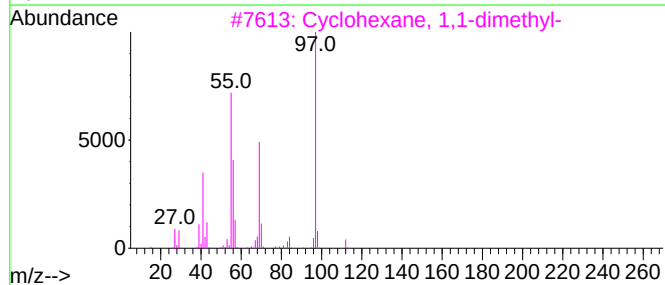
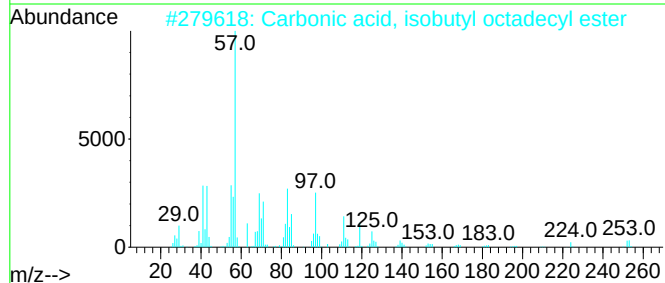
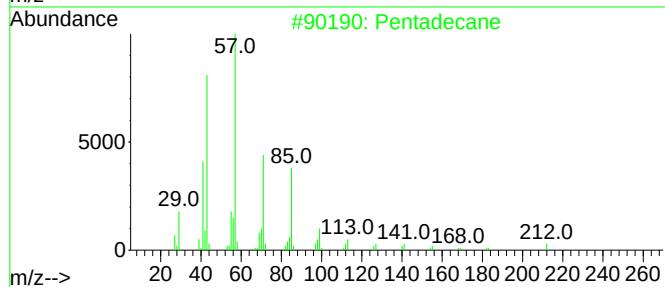
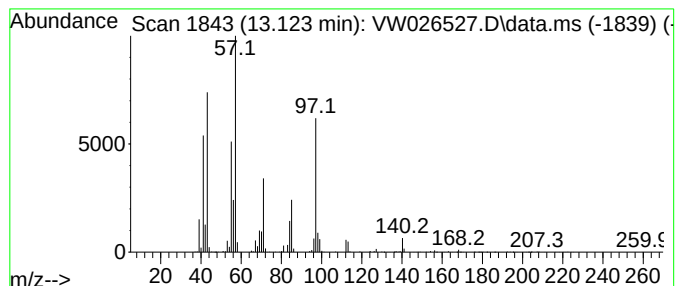
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.123 | 18.46 ug/L | 930703 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Pentadecane                         | 212 | C15H32   | 000629-62-9  | 43   |
| 2    |    |   | Carbonic acid, isobutyl octadecy... | 370 | C23H46O3 | 1000314-61-5 | 43   |
| 3    |    |   | Cyclohexane, 1,1-dimethyl-          | 112 | C8H16    | 000590-66-9  | 38   |
| 4    |    |   | Decane, 5-methyl-                   | 156 | C11H24   | 013151-35-4  | 38   |
| 5    |    |   | Undecane, 5-methyl-                 | 170 | C12H26   | 001632-70-8  | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

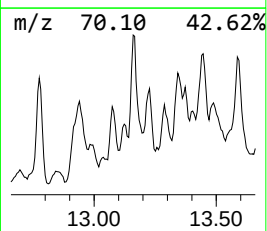
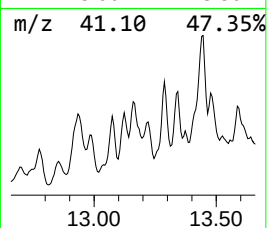
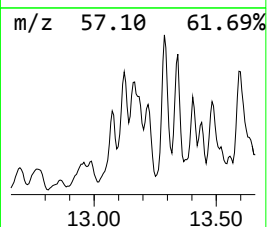
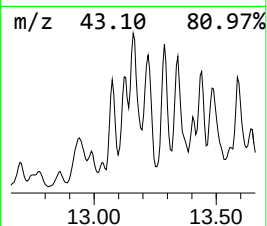
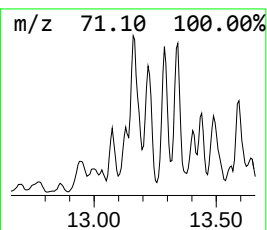
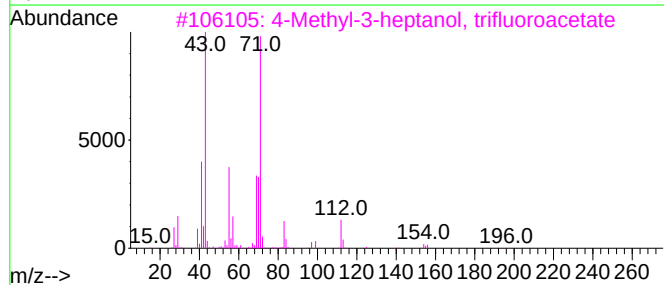
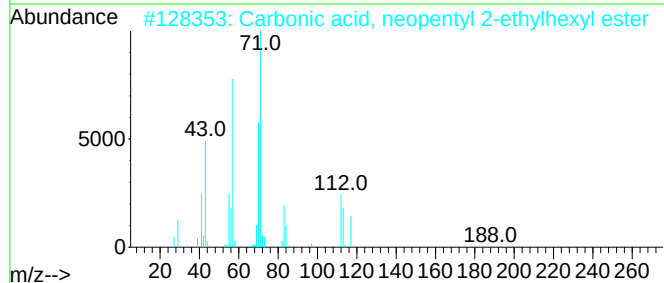
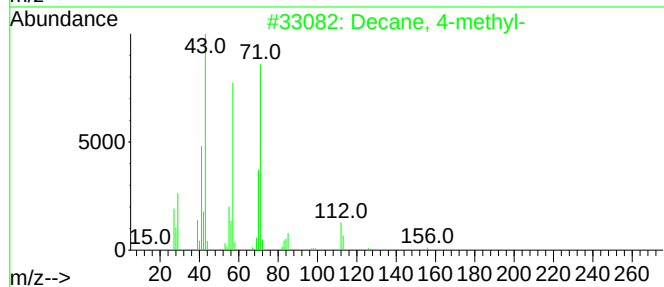
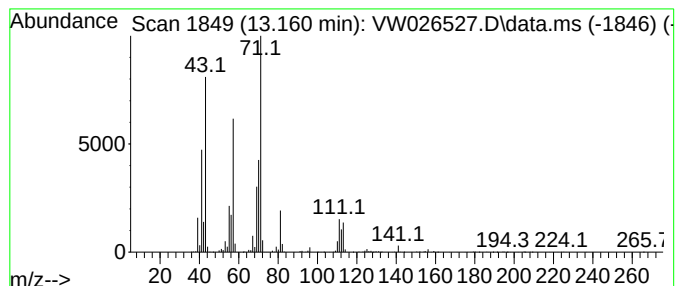
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TIC Integration Parameters: LSCINT.P

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Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 31

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.160 | 16.54 ug/L | 834020 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Decane, 4-methyl-                   | 156 | C11H24     | 002847-72-5  | 80   |
| 2    |    |   | Carbonic acid, neopentyl 2-ethyl... | 244 | C14H28O3   | 1000357-85-7 | 72   |
| 3    |    |   | 4-Methyl-3-heptanol, trifluoroac... | 226 | C10H17F3O2 | 1000365-51-8 | 72   |
| 4    |    |   | Octane, 3,3-dimethyl-               | 142 | C10H22     | 004110-44-5  | 72   |
| 5    |    |   | 4-Methyl-3-heptanol, pentafluoro... | 276 | C11H17F5O2 | 1000365-51-7 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

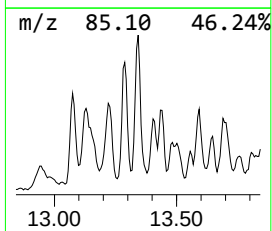
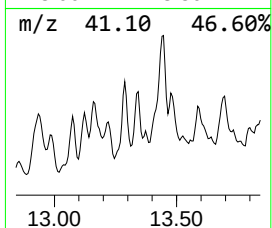
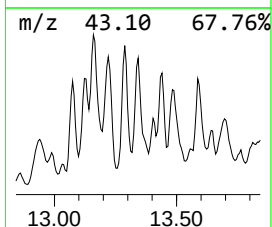
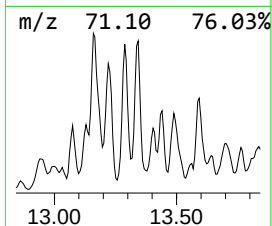
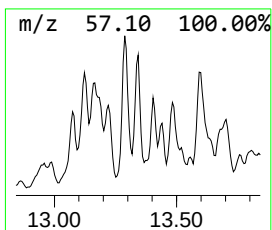
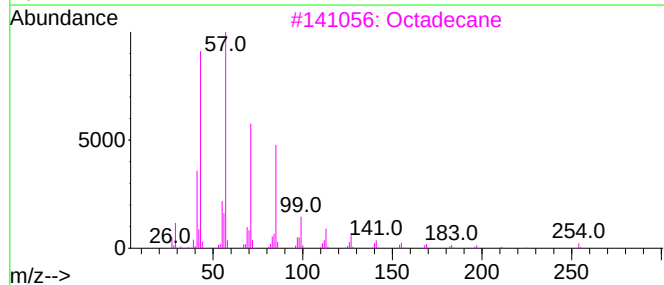
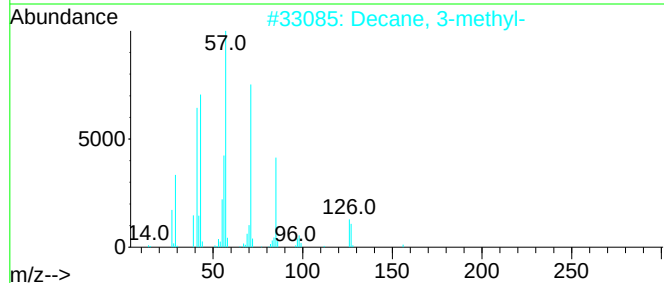
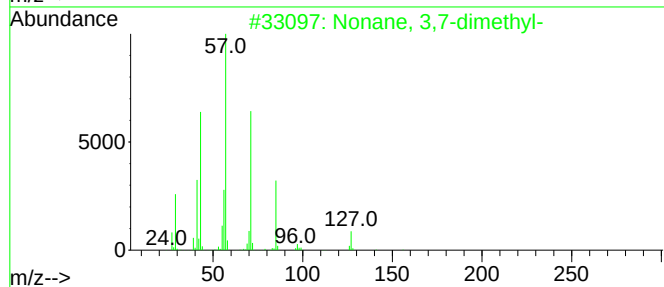
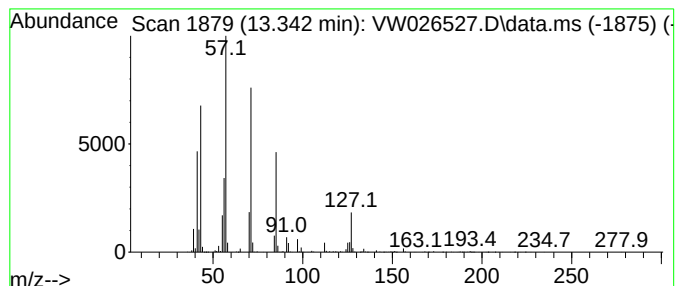
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Quant Title : SFAM01.0

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

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Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 25

| R.T.      | EstConc                      | Area   | Relative to ISTD       | R.T.        |      |
|-----------|------------------------------|--------|------------------------|-------------|------|
| 13.342    | 19.41 ug/L                   | 978827 | 1,4-Dichlorobenzene-d4 | 13.556      |      |
| Hit# of 5 | Tentative ID                 | MW     | MolForm                | CAS#        | Qual |
| 1         | Nonane, 3,7-dimethyl-        | 156    | C11H24                 | 017302-32-8 | 72   |
| 2         | Decane, 3-methyl-            | 156    | C11H24                 | 013151-34-3 | 72   |
| 3         | Octadecane                   | 254    | C18H38                 | 000593-45-3 | 72   |
| 4         | Octane, 3,4,5,6-tetramethyl- | 170    | C12H26                 | 062185-21-1 | 64   |
| 5         | Nonadecane                   | 268    | C19H40                 | 000629-92-5 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

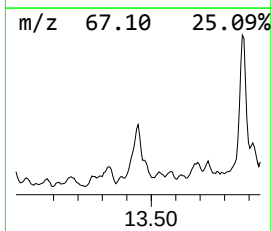
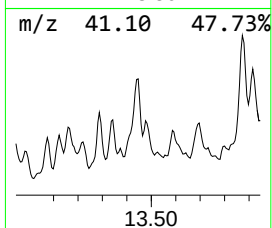
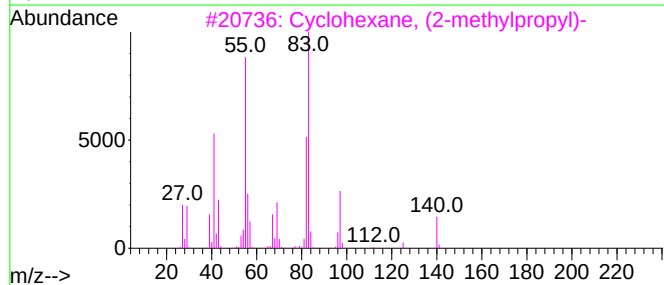
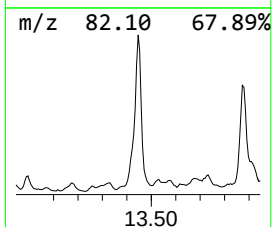
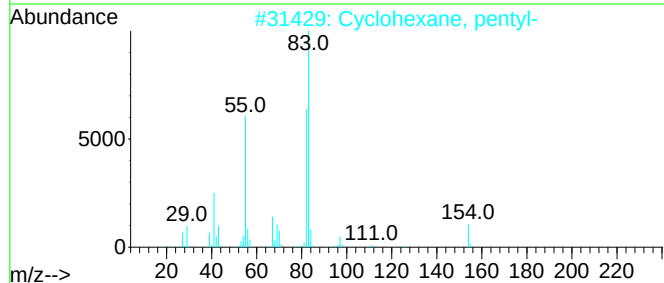
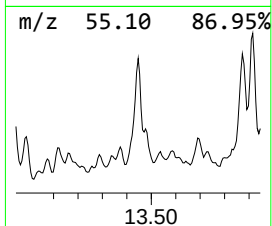
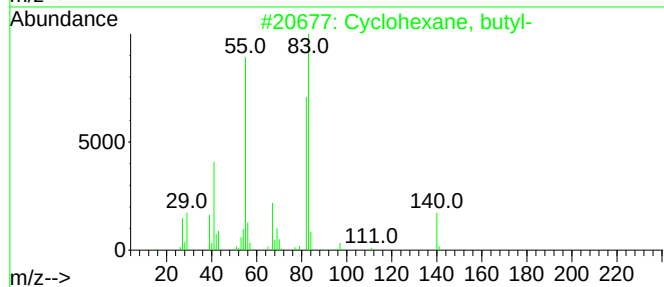
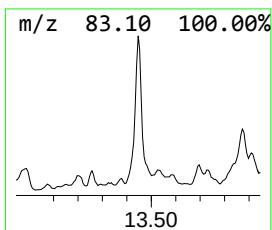
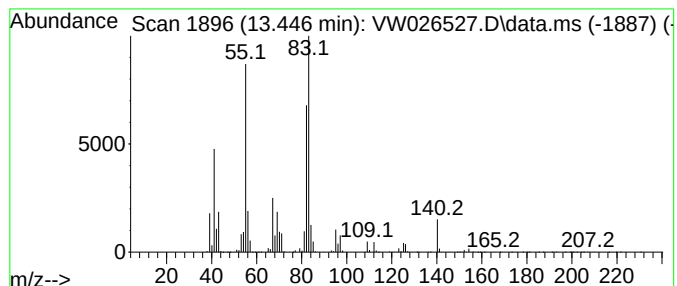
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Quant Title : SFAM01.0

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

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Peak Number 20 (DEL) Alkane: Cyclic13.446 Concentration Rank 8

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.446 | 61.72 ug/L | 3112500 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, butyl-            | 140 | C10H20  | 001678-93-9 | 87   |
| 2    |    |   | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 81   |
| 3    |    |   | Cyclohexane, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 80   |
| 4    |    |   | Cyclohexane, butyl-            | 140 | C10H20  | 001678-93-9 | 74   |
| 5    |    |   | Cyclohexane, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

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

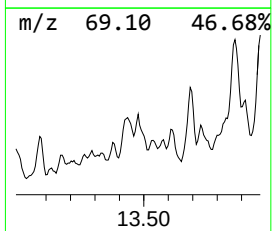
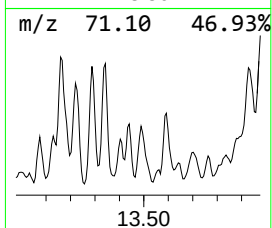
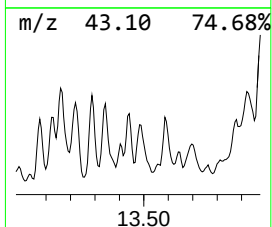
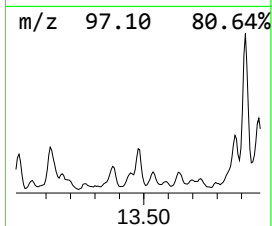
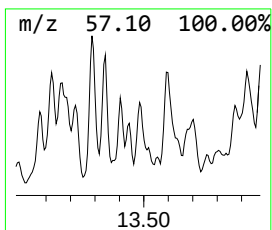
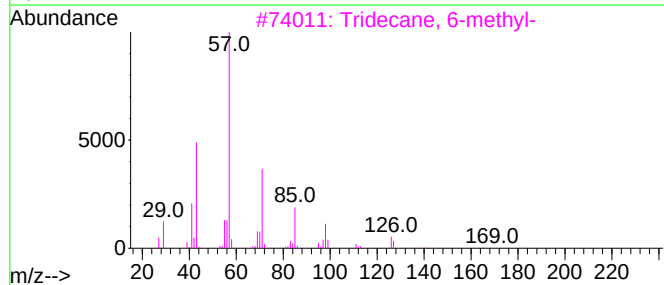
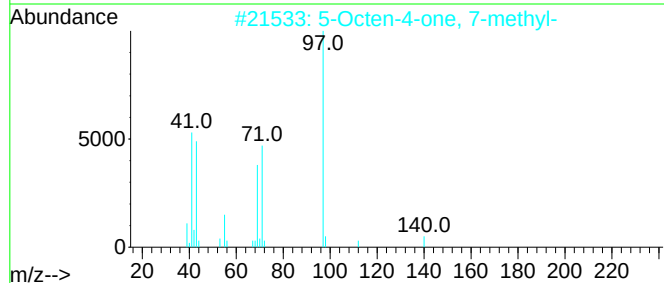
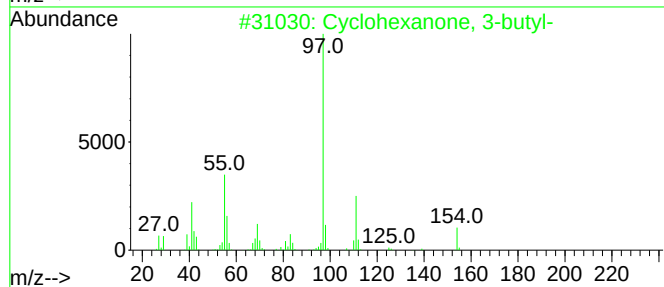
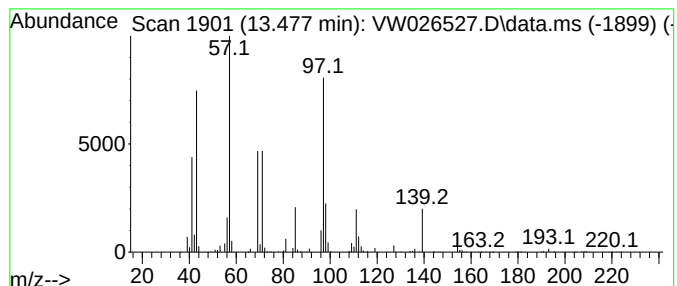
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Peak Number 21 unknown-01

Concentration Rank 26

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.477 | 18.68 ug/L | 942108 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexanone, 3-butyl-  | 154 | C10H18O | 039178-69-3 | 38   |
| 2    |      | 5-Octen-4-one, 7-methyl- | 140 | C9H16O  | 032064-78-1 | 38   |
| 3    |      | Tridecane, 6-methyl-     | 198 | C14H30  | 013287-21-3 | 27   |
| 4    |      | Undecane                 | 156 | C11H24  | 001120-21-4 | 22   |
| 5    |      | Undecane                 | 156 | C11H24  | 001120-21-4 | 22   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

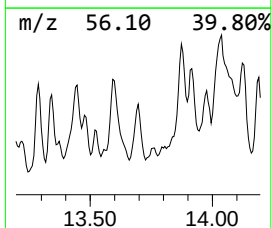
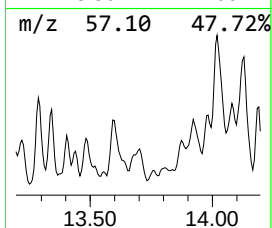
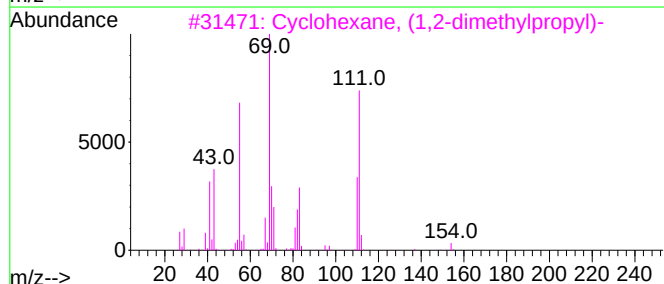
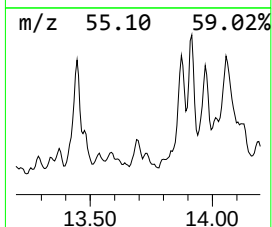
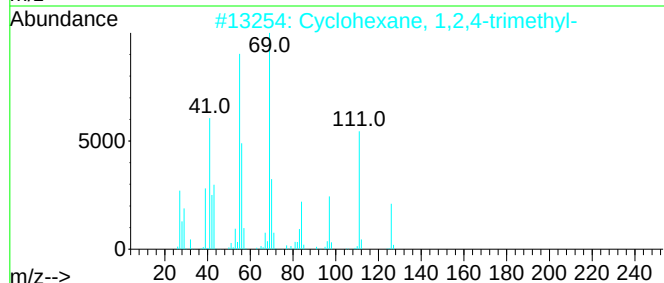
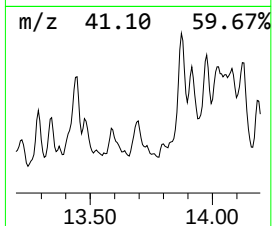
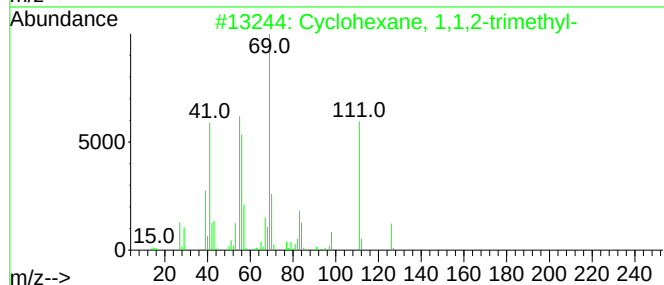
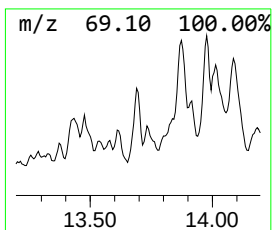
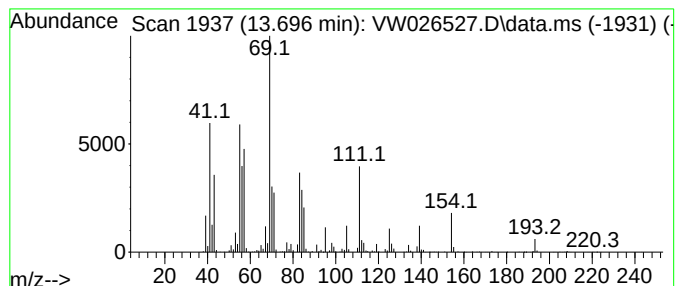
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 22 (DEL) Alkane: Cyclic13.696 Concentration Rank 15

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.696 | 40.14 ug/L | 2024380 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,1,2-trimethyl-        | 126 | C9H18   | 007094-26-0 | 62   |
| 2    |    |   | Cyclohexane, 1,2,4-trimethyl-        | 126 | C9H18   | 002234-75-5 | 50   |
| 3    |    |   | Cyclohexane, (1,2-dimethylpropyl)-   | 154 | C11H22  | 051284-29-8 | 43   |
| 4    |    |   | Cyclohexane, 1,3,5-trimethyl-, (...) | 126 | C9H18   | 001795-26-2 | 43   |
| 5    |    |   | Nonane, 2-methyl-3-methylene-        | 154 | C11H22  | 055499-08-6 | 43   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

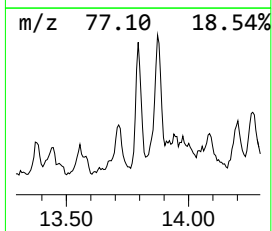
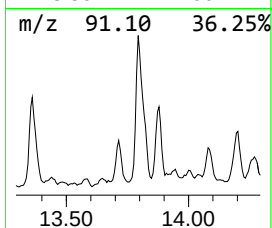
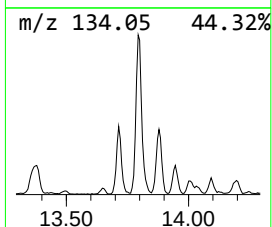
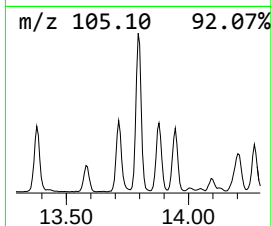
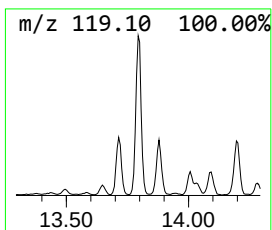
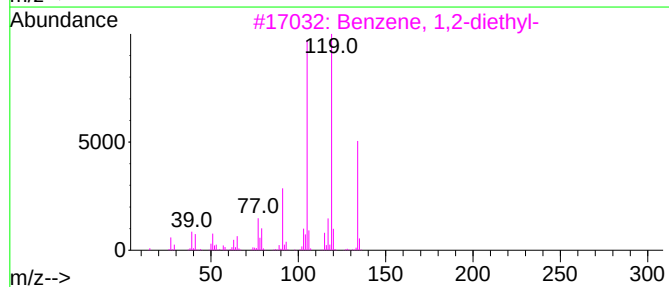
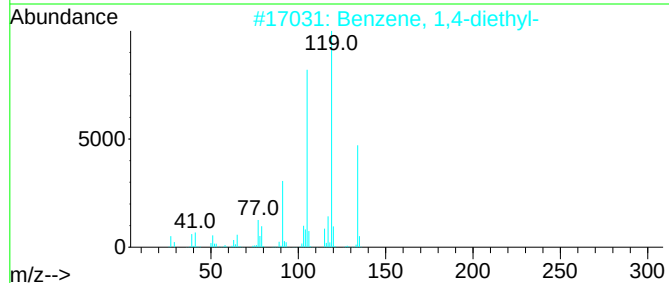
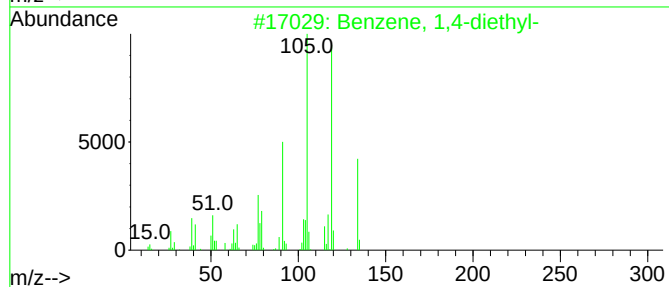
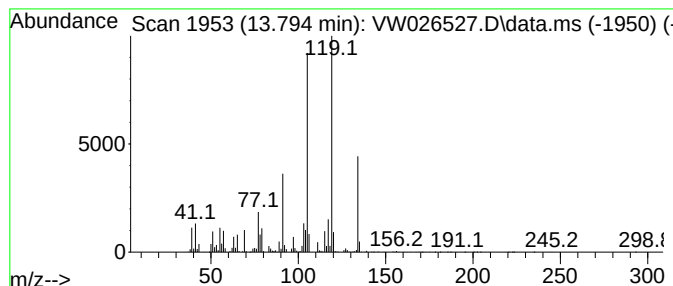
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Quant Title : SFAM01.0

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

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Peak Number 23 Benzene, 1,4-diethyl- Concentration Rank 19

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.794 | 24.83 ug/L | 1252320 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 98   |
| 2    |    |   | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 97   |
| 3    |    |   | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 96   |
| 4    |    |   | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 96   |
| 5    |    |   | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 95   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

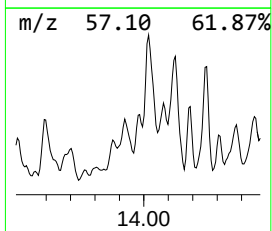
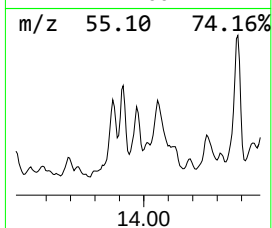
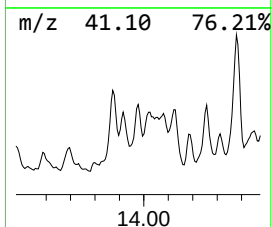
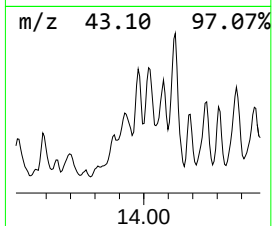
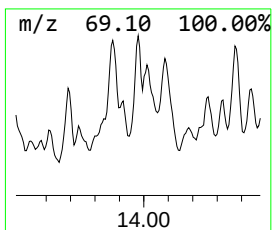
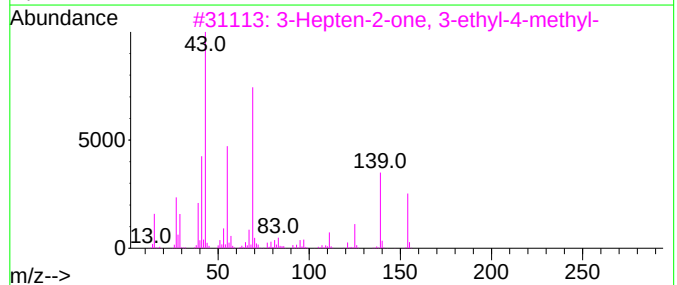
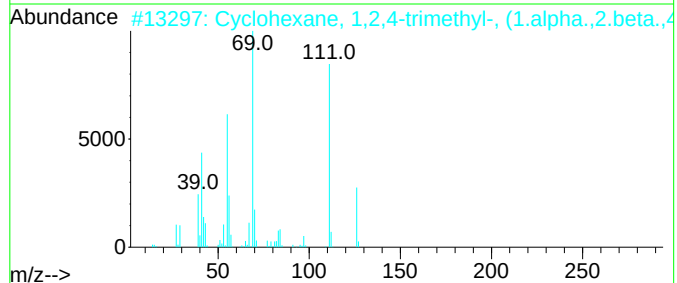
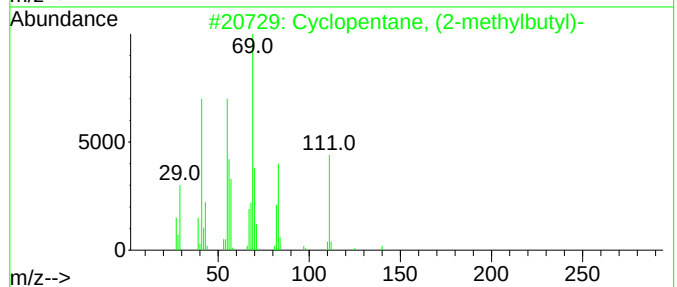
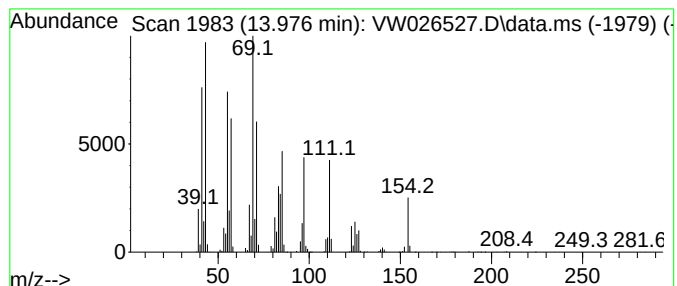
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 24 (DEL) Alkane: Cyclic13.977 Concentration Rank 17

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.977 | 31.59 ug/L | 1593250 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|---|--------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclopentane, (2-methylbutyl)-       | 140 | C10H20    | 053366-38-4  | 30   |
| 2    |    |   | Cyclohexane, 1,2,4-trimethyl-, (...) | 126 | C9H18     | 007667-60-9  | 27   |
| 3    |    |   | 3-Hepten-2-one, 3-ethyl-4-methyl-    | 154 | C10H18O   | 054244-90-5  | 25   |
| 4    |    |   | Hexane, 2,3,4-trimethyl-             | 128 | C9H20     | 000921-47-1  | 25   |
| 5    |    |   | Sulfurous acid, nonyl 2-propyl e...  | 250 | C12H26O3S | 1000309-12-0 | 22   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

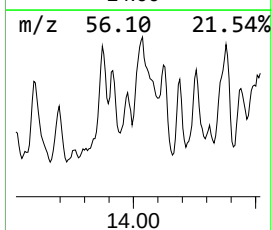
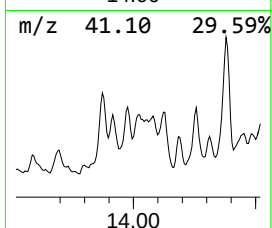
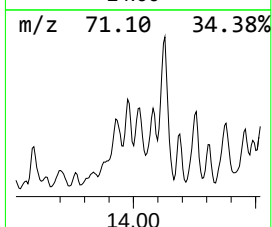
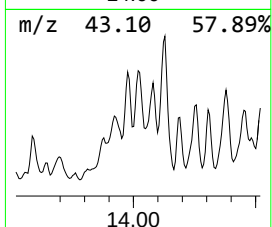
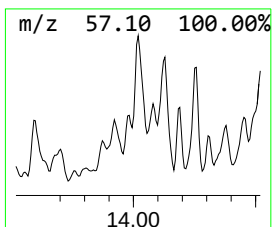
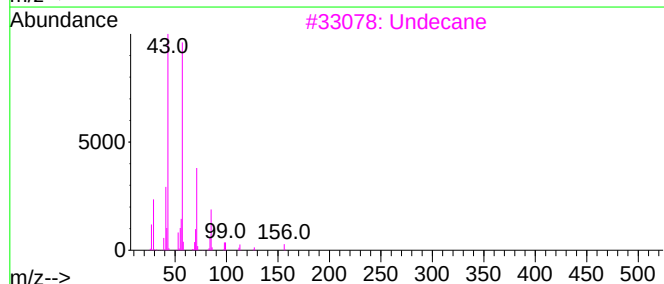
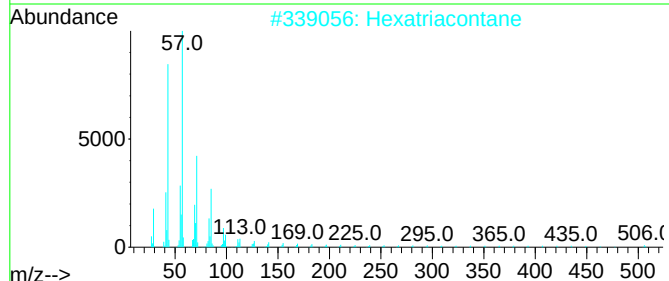
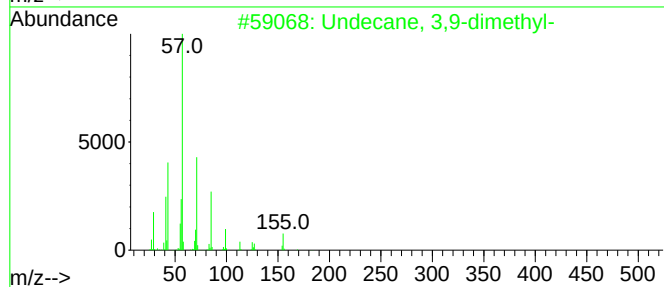
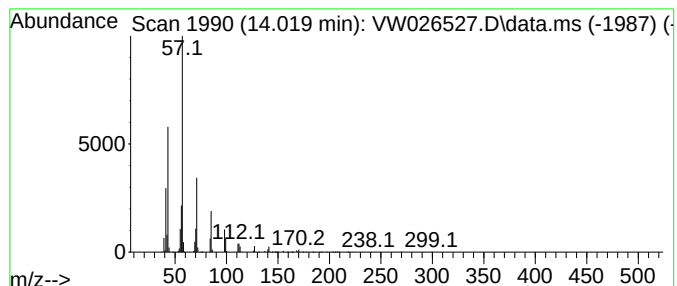
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Quant Title : SFAM01.0

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

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Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 24

| R.T.      | EstConc                 | Area    | Relative to ISTD       |         |             | R.T.   |
|-----------|-------------------------|---------|------------------------|---------|-------------|--------|
| 14.019    | 20.41 ug/L              | 1029360 | 1,4-Dichlorobenzene-d4 |         |             | 13.556 |
| Hit# of 5 | Tentative ID            |         | MW                     | MolForm | CAS#        | Qual   |
| 1         | Undecane, 3,9-dimethyl- |         | 184                    | C13H28  | 017301-31-4 | 59     |
| 2         | Hexatriacontane         |         | 507                    | C36H74  | 000630-06-8 | 59     |
| 3         | Undecane                |         | 156                    | C11H24  | 001120-21-4 | 53     |
| 4         | Octane, 2,7-dimethyl-   |         | 142                    | C10H22  | 001072-16-8 | 52     |
| 5         | Tridecane, 3-methyl-    |         | 198                    | C14H30  | 006418-41-3 | 50     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

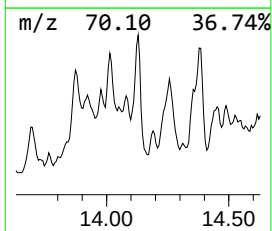
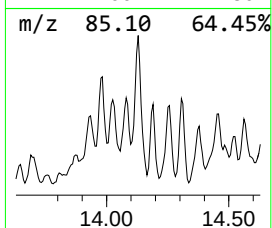
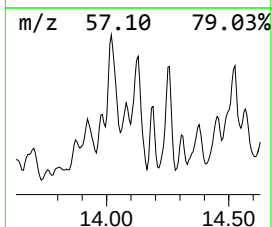
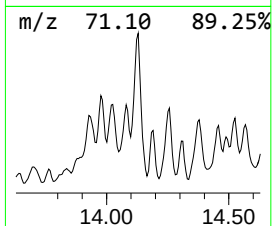
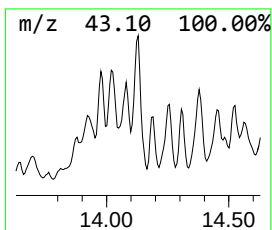
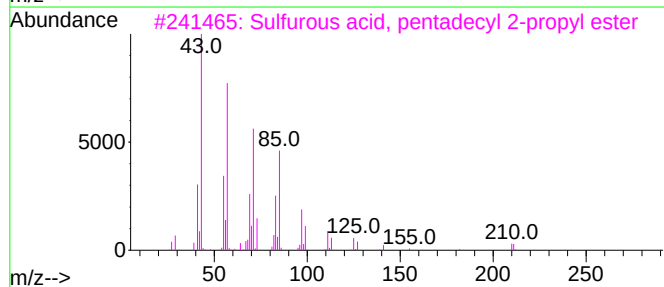
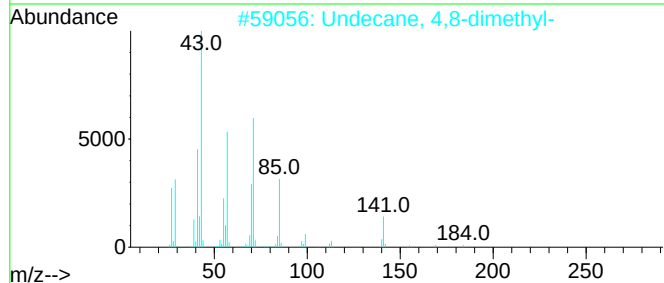
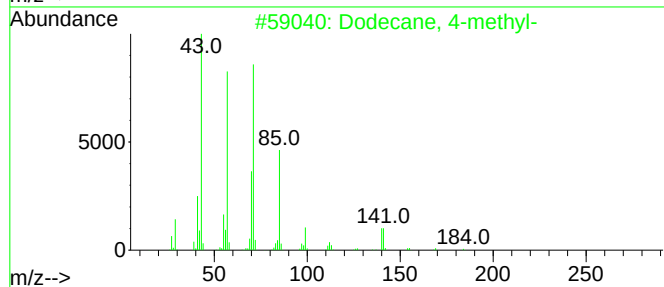
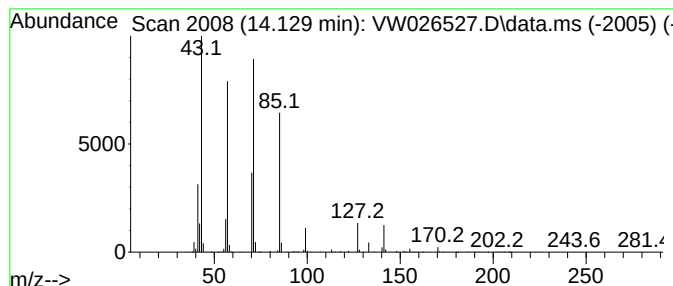
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TIC Integration Parameters: LSCINT.P

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Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.129 | 48.16 ug/L | 2428820 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Dodecane, 4-methyl-                 | 184 | C13H28    | 006117-97-1  | 72   |
| 2    |    |   | Undecane, 4,8-dimethyl-             | 184 | C13H28    | 017301-33-6  | 64   |
| 3    |    |   | Sulfurous acid, pentadecyl 2-pro... | 334 | C18H38O3S | 1000309-12-6 | 64   |
| 4    |    |   | Dodecane, 4-methyl-                 | 184 | C13H28    | 006117-97-1  | 64   |
| 5    |    |   | Hexane, 3,3-dimethyl-               | 114 | C8H18     | 000563-16-6  | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

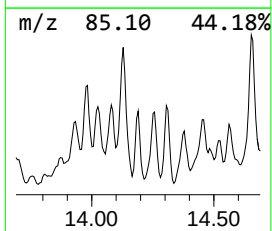
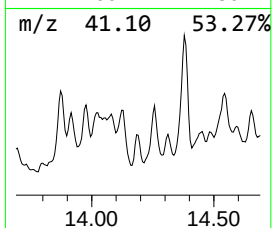
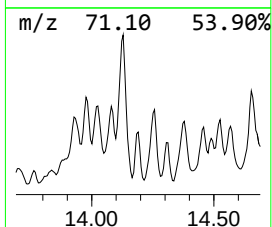
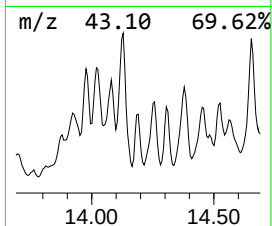
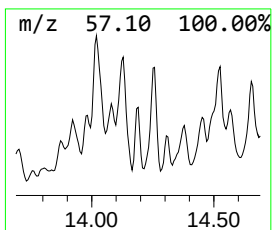
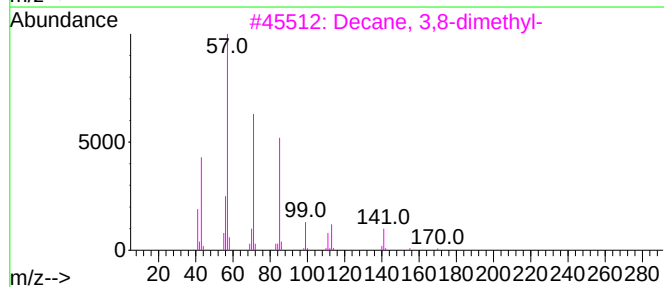
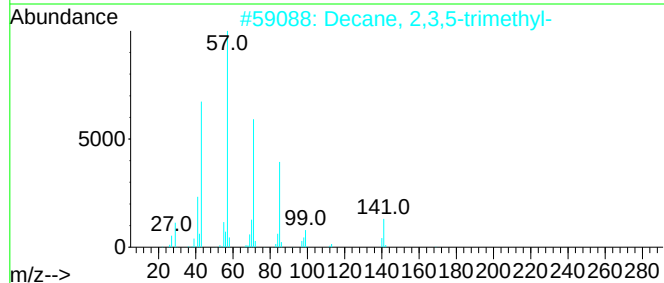
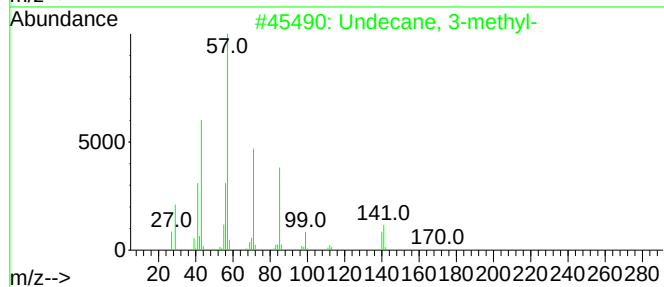
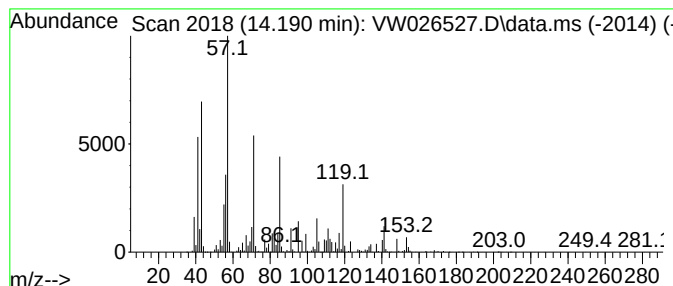
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Quant Title : SFAM01.0

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

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Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.      | EstConc                  | Area    | Relative to ISTD       |         |             | R.T.   |
|-----------|--------------------------|---------|------------------------|---------|-------------|--------|
| 14.190    | 32.41 ug/L               | 1634260 | 1,4-Dichlorobenzene-d4 |         |             | 13.556 |
| Hit# of 5 | Tentative ID             |         | MW                     | MolForm | CAS#        | Qual   |
| 1         | Undecane, 3-methyl-      |         | 170                    | C12H26  | 001002-43-3 | 62     |
| 2         | Decane, 2,3,5-trimethyl- |         | 184                    | C13H28  | 062238-11-3 | 49     |
| 3         | Decane, 3,8-dimethyl-    |         | 170                    | C12H26  | 017312-55-9 | 49     |
| 4         | Dodecane                 |         | 170                    | C12H26  | 000112-40-3 | 47     |
| 5         | Decane, 2,3,7-trimethyl- |         | 184                    | C13H28  | 062238-13-5 | 46     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

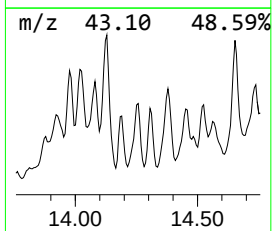
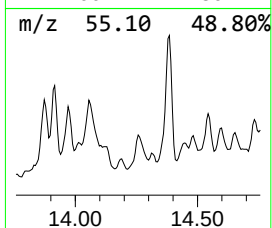
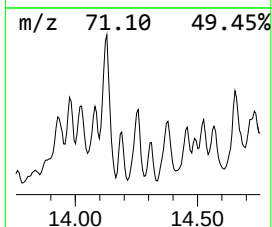
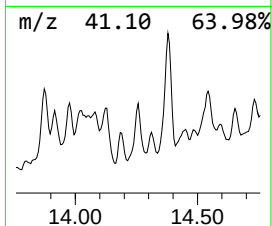
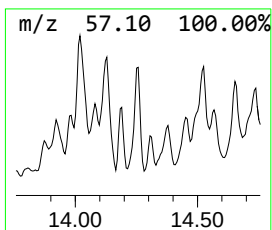
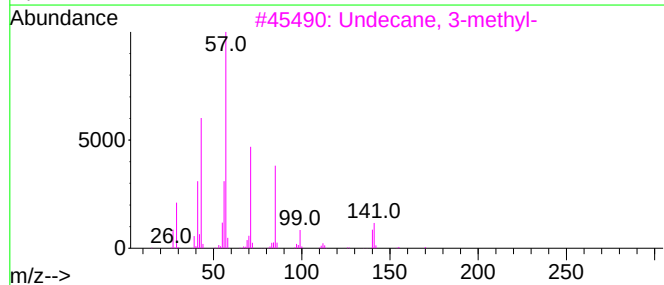
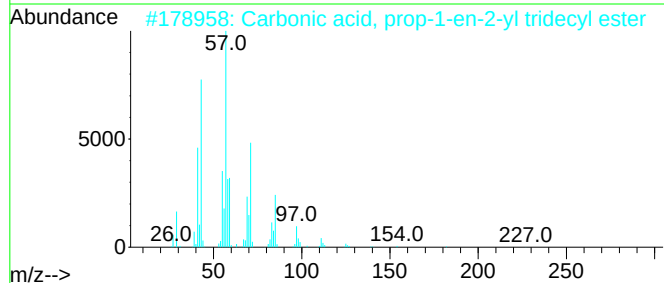
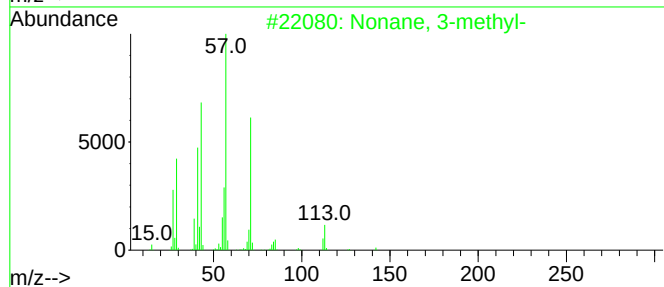
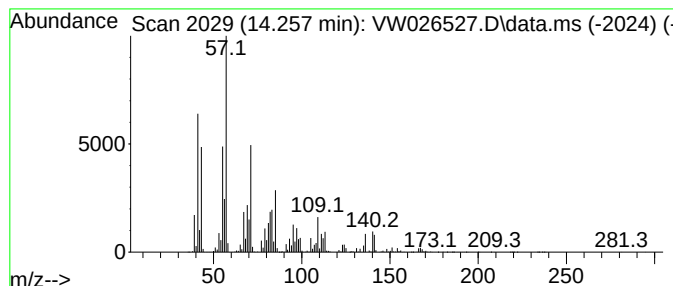
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Quant Title : SFAM01.0

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

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Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.257 | 50.42 ug/L | 2542790 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Nonane, 3-methyl-                   | 142 | C10H22      | 005911-04-6  | 55   |
| 2    |    |   | Carbonic acid, prop-1-en-2-yl tr... | 284 | C17H32O3    | 1000382-90-8 | 53   |
| 3    |    |   | Undecane, 3-methyl-                 | 170 | C12H26      | 001002-43-3  | 52   |
| 4    |    |   | Tritetracontane                     | 605 | C43H88      | 007098-21-7  | 50   |
| 5    |    |   | 1-Octadecanesulphonyl chloride      | 352 | C18H37ClO2S | 1000342-70-4 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

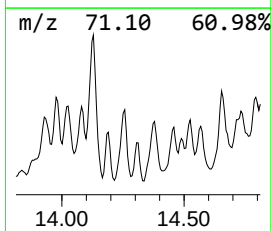
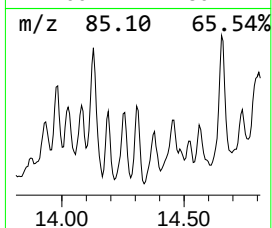
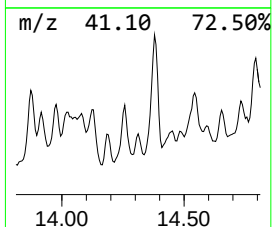
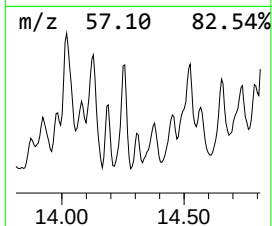
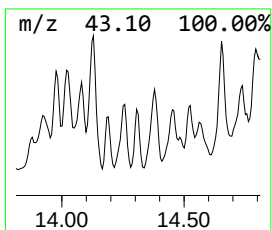
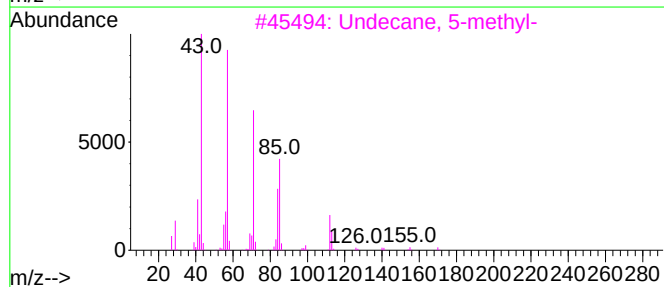
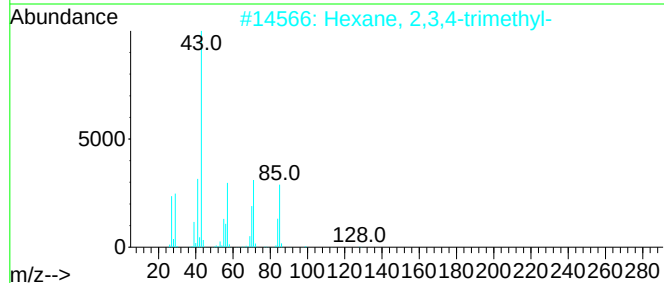
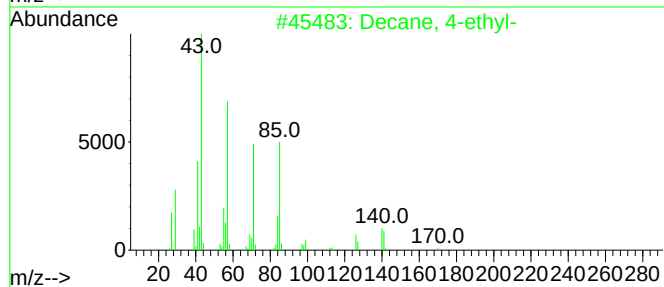
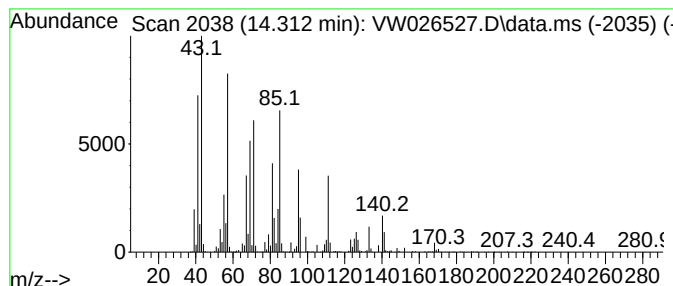
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Quant Title : SFAM01.0

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

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Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 34

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-------------|------|
| 14.312    | 15.04 ug/L                          | 758676 | 1,4-Dichlorobenzene-d4 | 13.556      |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm                | CAS#        | Qual |
| 1         | Decane, 4-ethyl-                    | 170    | C12H26                 | 001636-44-8 | 90   |
| 2         | Hexane, 2,3,4-trimethyl-            | 128    | C9H20                  | 000921-47-1 | 35   |
| 3         | Undecane, 5-methyl-                 | 170    | C12H26                 | 001632-70-8 | 25   |
| 4         | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138    | C10H18                 | 006069-97-2 | 25   |
| 5         | Undecane, 5-methyl-                 | 170    | C12H26                 | 001632-70-8 | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

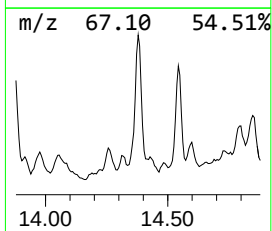
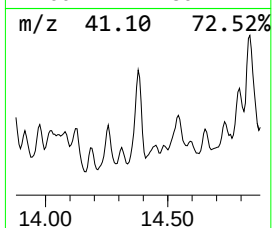
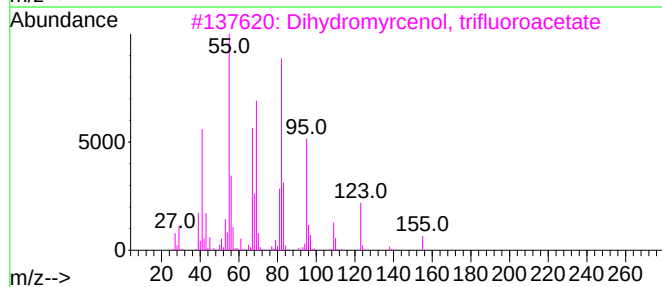
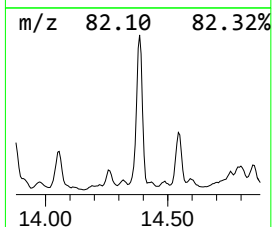
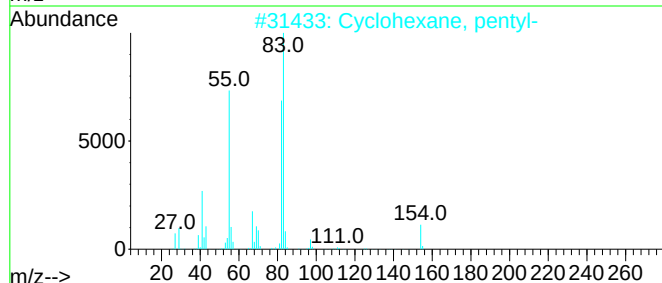
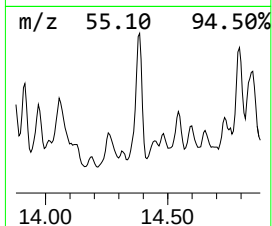
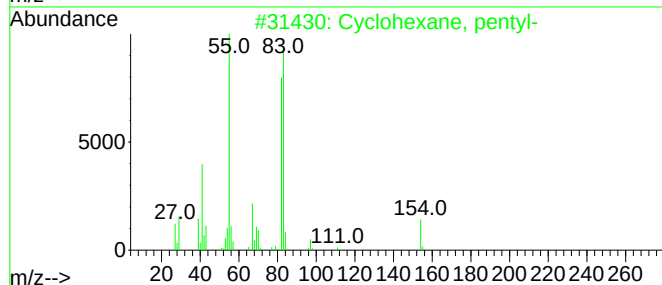
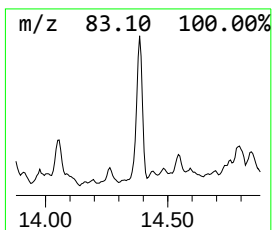
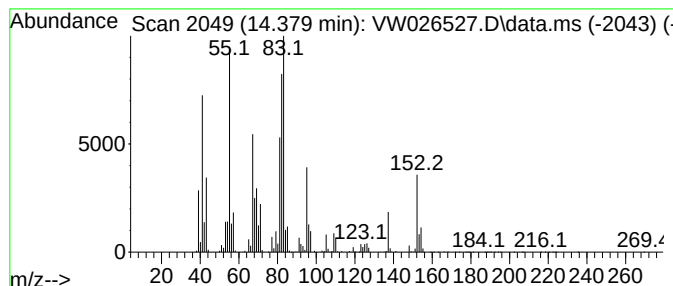
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Quant Title : SFAM01.0

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

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Peak Number 30 (DEL) Alkane: Cyclic14.379 Concentration Rank 3

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 14.379 | 136.98 ug/L | 6907560 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|------|-------------------------------------|-----|------------|--------------|------|
| 1    |      | Cyclohexane, pentyl-                | 154 | C11H22     | 004292-92-6  | 53   |
| 2    |      | Cyclohexane, pentyl-                | 154 | C11H22     | 004292-92-6  | 53   |
| 3    |      | Dihydromyrcenol, trifluoroacetate   | 252 | C12H19F3O2 | 1000463-72-2 | 52   |
| 4    |      | Dihydromyrcenol, pentafluoroprop... | 302 | C13H19F5O2 | 1000463-72-1 | 52   |
| 5    |      | Cyclohexane, (1-ethylpropyl)-       | 154 | C11H22     | 026321-98-2  | 49   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

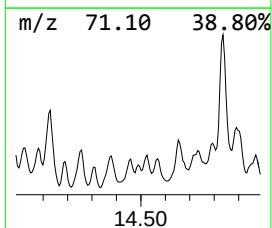
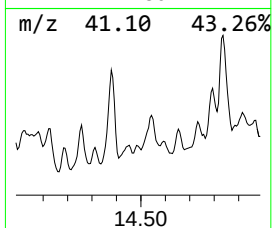
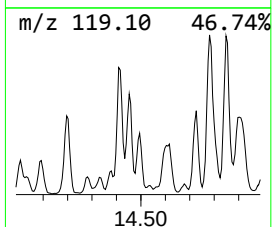
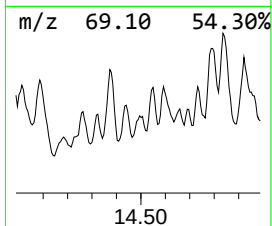
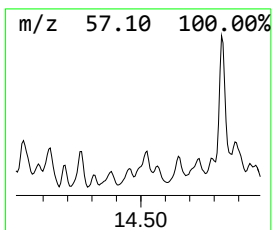
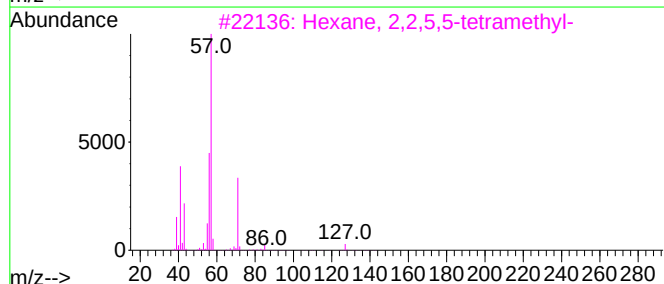
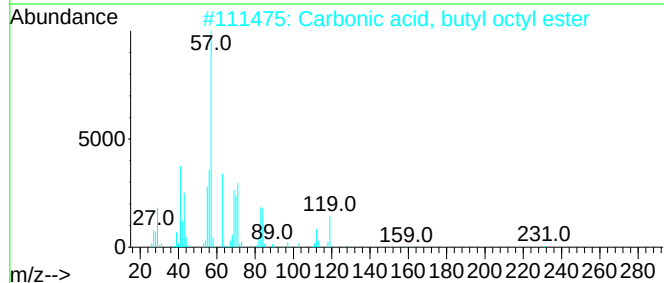
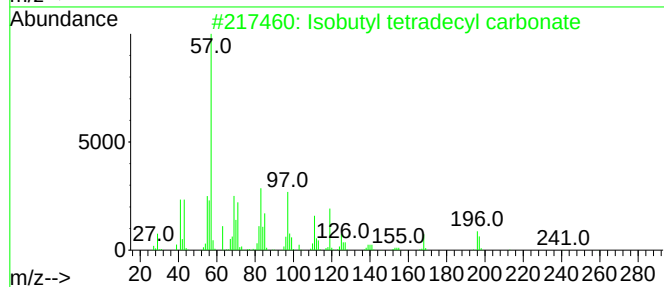
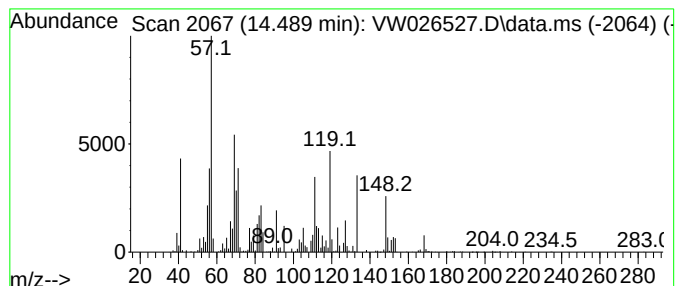
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TIC Integration Parameters: LSCINT.P

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Peak Number 31 Isobutyl tetradecyl carbonate Concentration Rank 35

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.489 | 10.72 ug/L | 540505 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#         | Qual |
|------|----|---|----------------------------------|-----|----------|--------------|------|
| 1    |    |   | Isobutyl tetradecyl carbonate    | 314 | C19H38O3 | 959275-58-2  | 50   |
| 2    |    |   | Carbonic acid, butyl octyl ester | 230 | C13H26O3 | 1010314-63-5 | 35   |
| 3    |    |   | Hexane, 2,2,5,5-tetramethyl-     | 142 | C10H22   | 001071-81-4  | 27   |
| 4    |    |   | 2-Hexyl-1-octanol                | 214 | C14H30O  | 019780-79-1  | 25   |
| 5    |    |   | Cyclopentanol, 3-methyl-         | 100 | C6H12O   | 018729-48-1  | 22   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

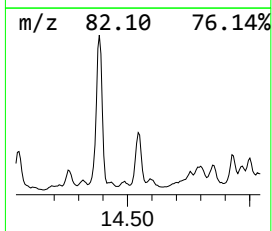
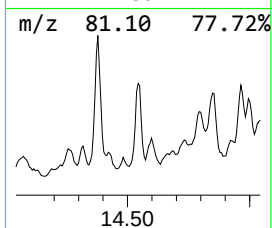
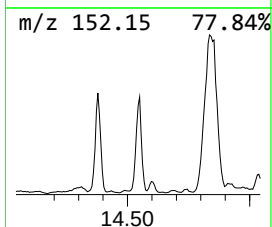
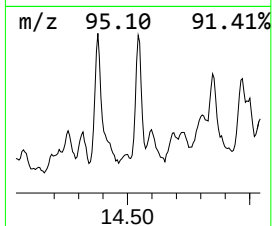
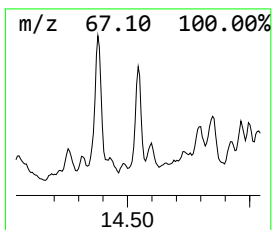
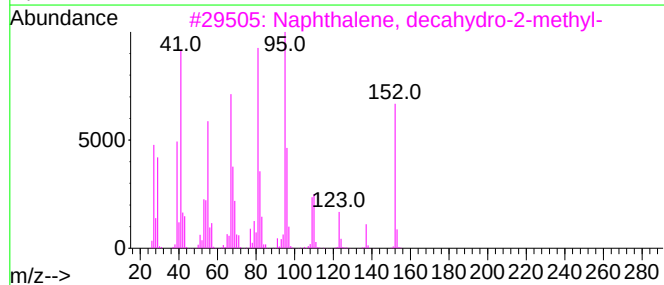
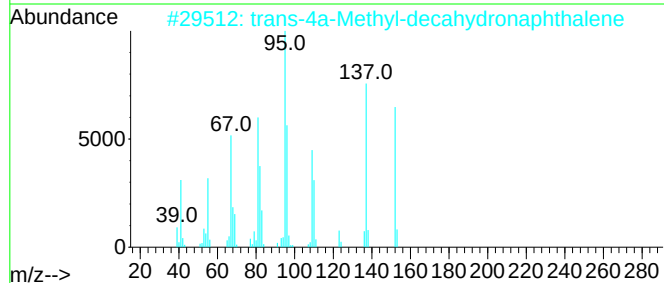
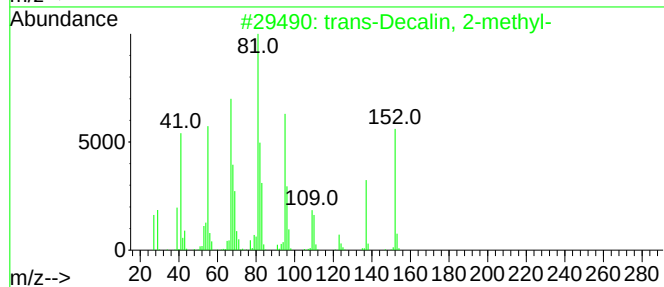
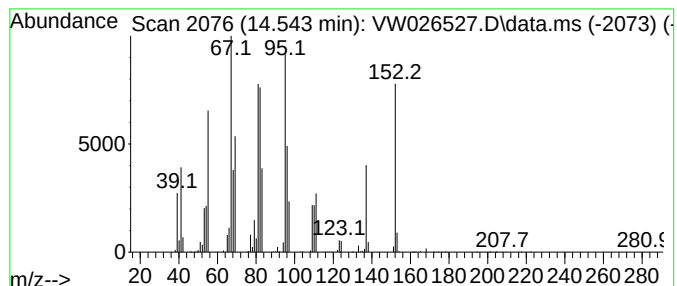
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Quant Title : SFAM01.0

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

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Peak Number 32 trans-Decalin, 2-methyl- Concentration Rank 12

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.544 | 48.16 ug/L | 2428600 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 90   |
| 2    |    |   | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5  | 89   |
| 3    |    |   | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 86   |
| 4    |    |   | cis-Decalin, 2-syn-methyl-          | 152 | C11H20  | 1000155-85-6 | 76   |
| 5    |    |   | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5  | 70   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

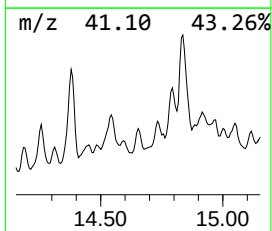
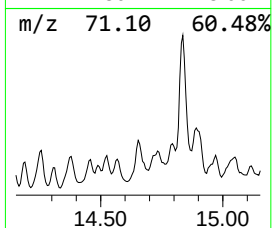
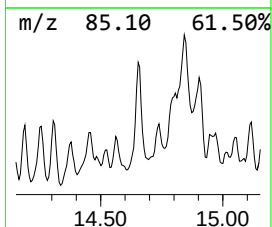
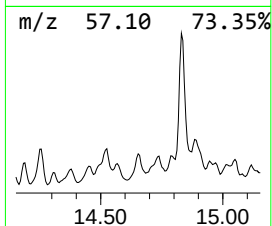
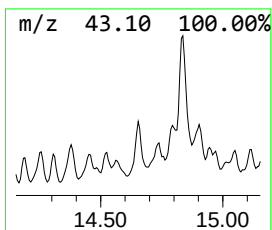
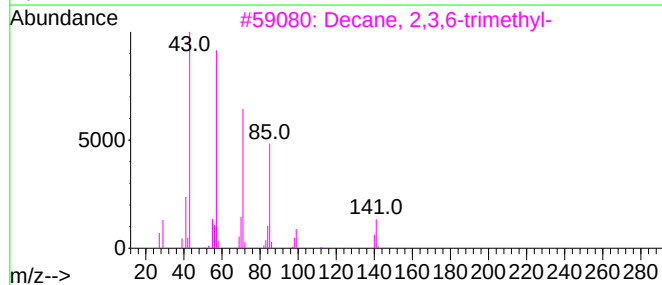
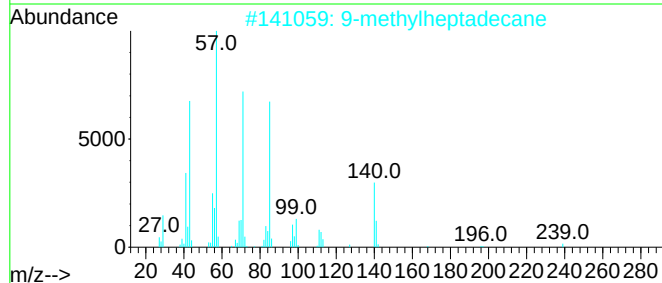
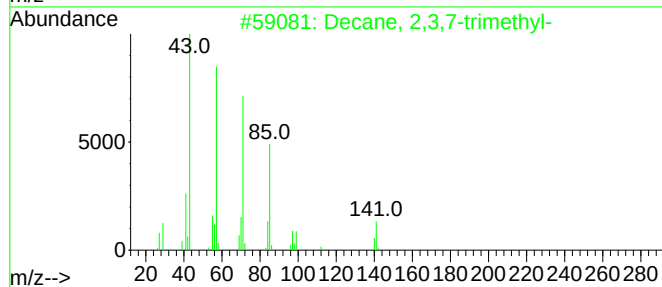
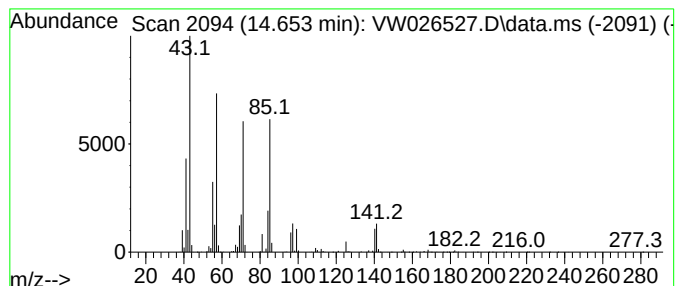
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TIC Integration Parameters: LSCINT.P

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Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.653 | 21.42 ug/L | 1080160 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-----------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Decane, 2,3,7-trimethyl-          | 184 | C13H28    | 062238-13-5  | 80   |
| 2    |    |   | 9-methylheptadecane               | 254 | C18H38    | 026741-18-4  | 64   |
| 3    |    |   | Decane, 2,3,6-trimethyl-          | 184 | C13H28    | 062238-12-4  | 59   |
| 4    |    |   | Tridecane, 5-methyl-              | 198 | C14H30    | 025117-31-1  | 53   |
| 5    |    |   | Sulfurous acid, 2-propyl tetra... | 320 | C17H36O3S | 1010309-12-5 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

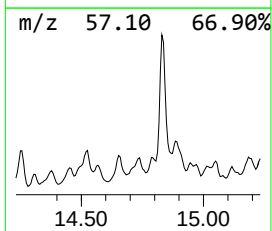
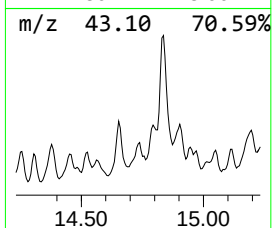
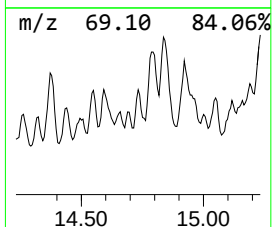
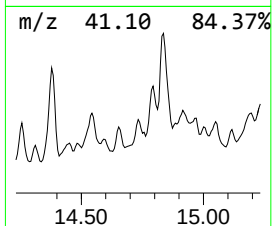
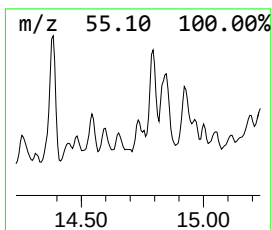
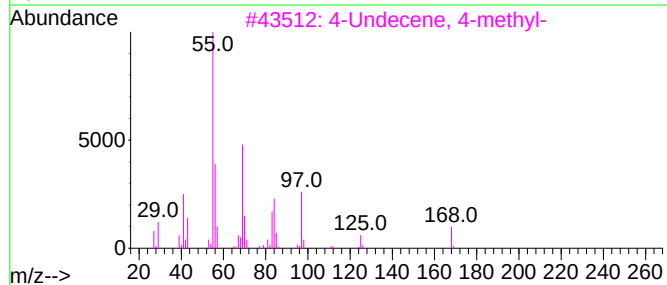
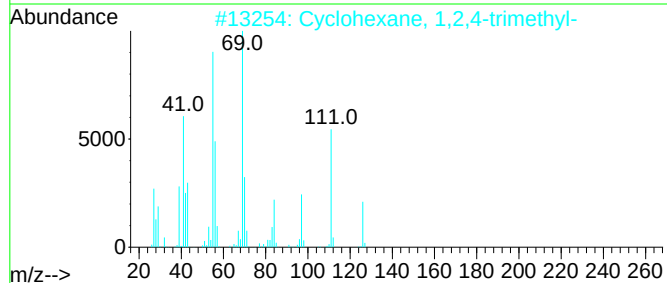
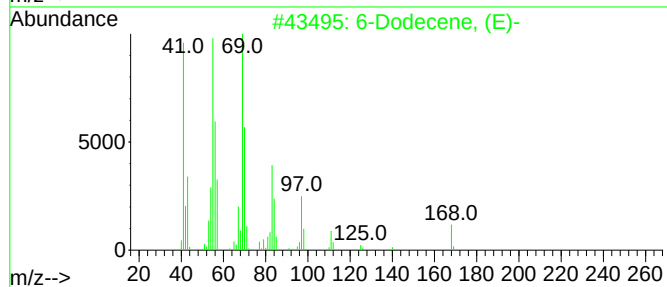
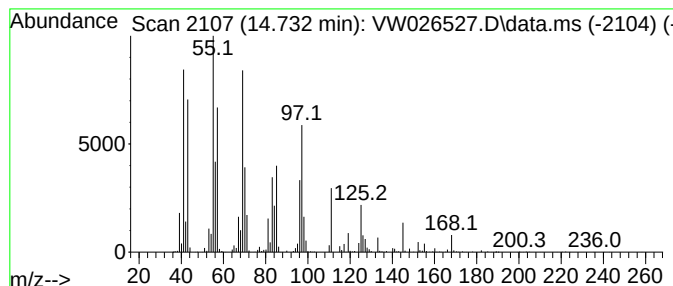
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.733 | 23.67 ug/L | 1193480 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5                          | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|-------------------------------|--------------|-----|---------|-------------|------|
| 1    | 6-Dodecene, (E)-              |              | 168 | C12H24  | 007206-17-9 | 60   |
| 2    | Cyclohexane, 1,2,4-trimethyl- |              | 126 | C9H18   | 002234-75-5 | 58   |
| 3    | 4-Undecene, 4-methyl-         |              | 168 | C12H24  | 061142-40-3 | 49   |
| 4    | 6-Dodecene, (Z)-              |              | 168 | C12H24  | 007206-29-3 | 49   |
| 5    | 6-Dodecene, (E)-              |              | 168 | C12H24  | 007206-17-9 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

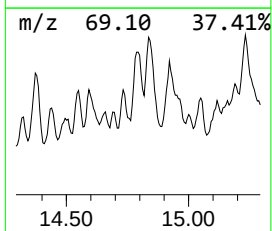
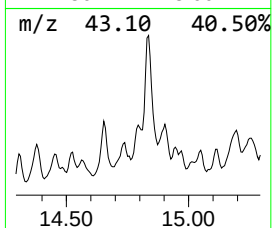
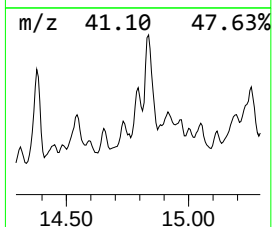
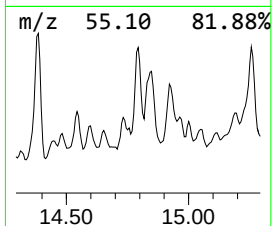
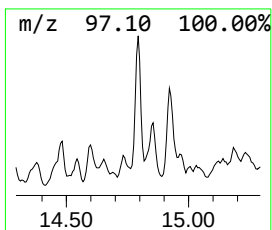
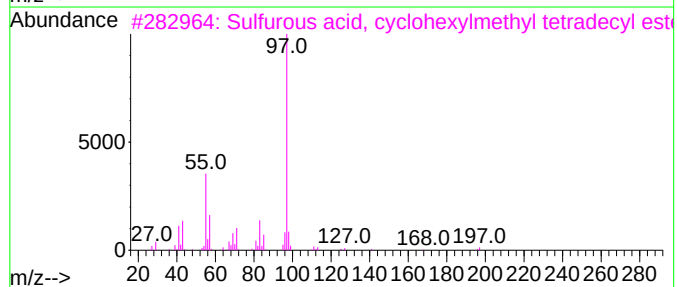
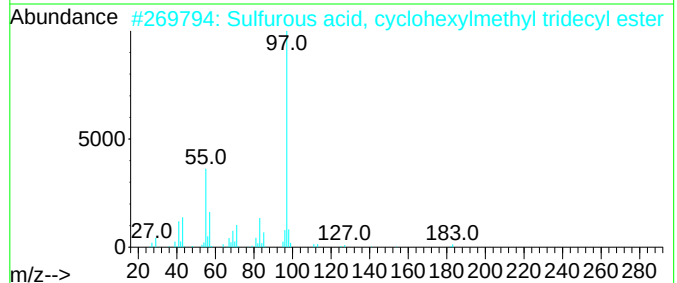
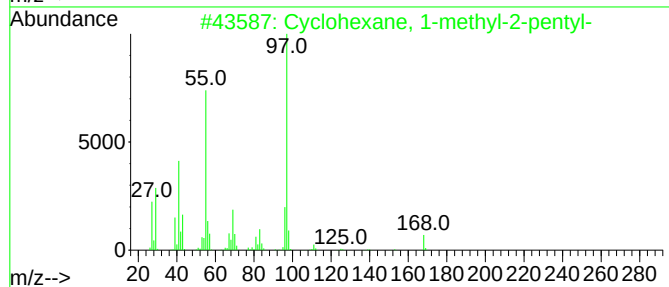
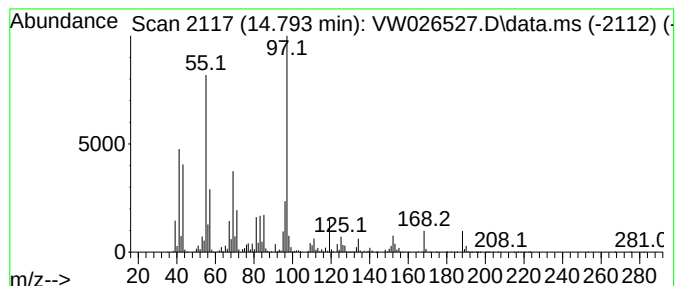
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Quant Title : SFAM01.0

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

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Peak Number 35 (DEL) Alkane: Cyclic14.793 Concentration Rank 5

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.793 | 81.23 ug/L | 4096370 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclohexane, 1-methyl-2-pentyl-     | 168 | C12H24    | 054411-01-7  | 58   |
| 2    |    |   | Sulfurous acid, cyclohexylmethyl... | 360 | C20H40O3S | 1000309-22-1 | 58   |
| 3    |    |   | Sulfurous acid, cyclohexylmethyl... | 374 | C21H42O3S | 1000309-22-2 | 53   |
| 4    |    |   | Sulfurous acid, cyclohexylmethyl... | 346 | C19H38O3S | 1000309-22-0 | 53   |
| 5    |    |   | Cyclohexane, 1-methyl-3-pentyl-     | 168 | C12H24    | 054411-02-8  | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

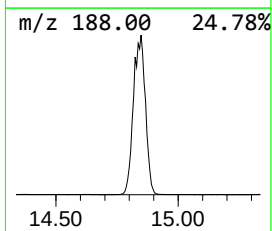
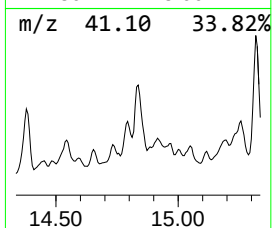
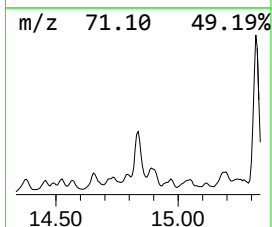
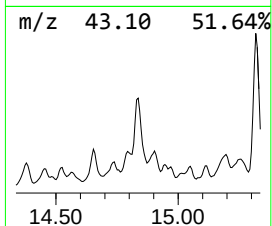
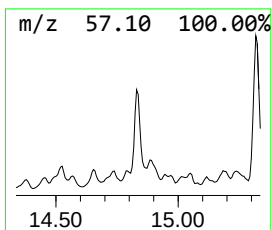
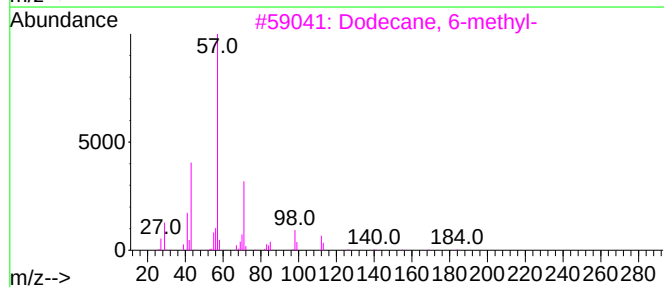
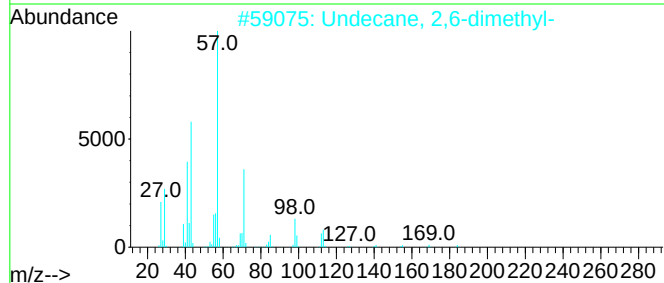
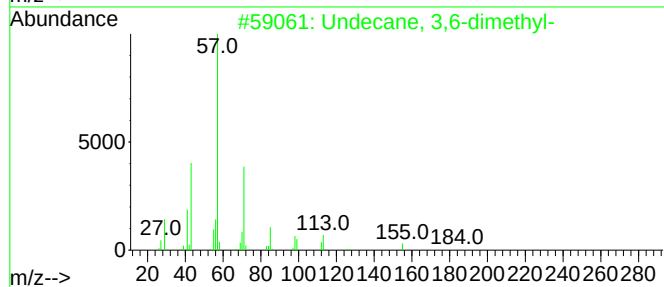
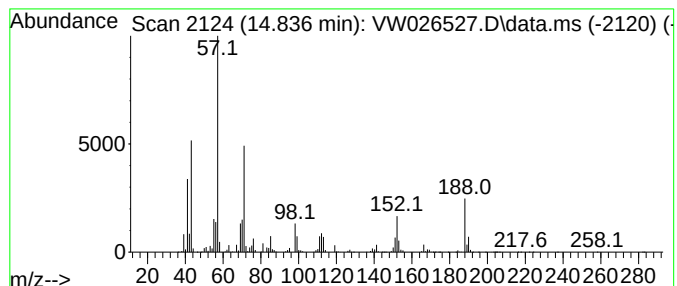
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 36 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 14.836 | 228.72 ug/L | 11533700 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Undecane, 3,6-dimethyl- | 184 | C13H28  | 017301-28-9 | 55   |
| 2    |    |   | Undecane, 2,6-dimethyl- | 184 | C13H28  | 017301-23-4 | 42   |
| 3    |    |   | Dodecane, 6-methyl-     | 184 | C13H28  | 006044-71-9 | 38   |
| 4    |    |   | Heptacosane             | 380 | C27H56  | 000593-49-7 | 38   |
| 5    |    |   | Undecane, 2,5-dimethyl- | 184 | C13H28  | 017301-22-3 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
Quant Title : SFAM01.0

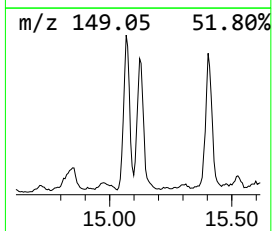
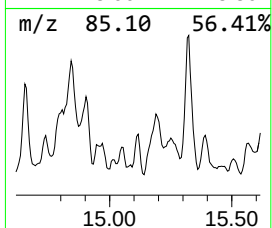
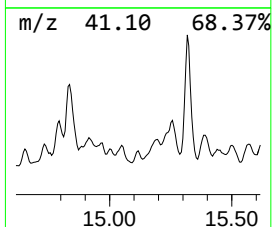
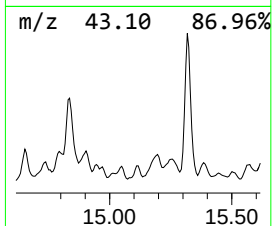
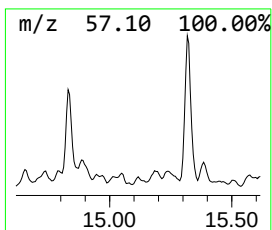
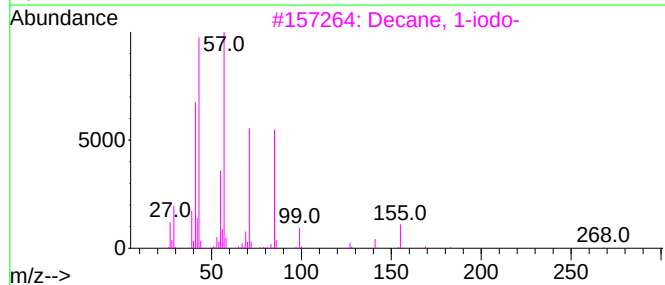
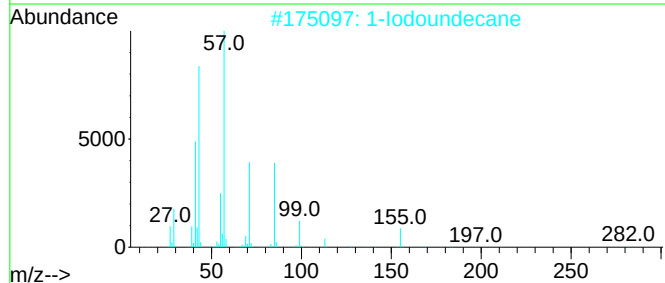
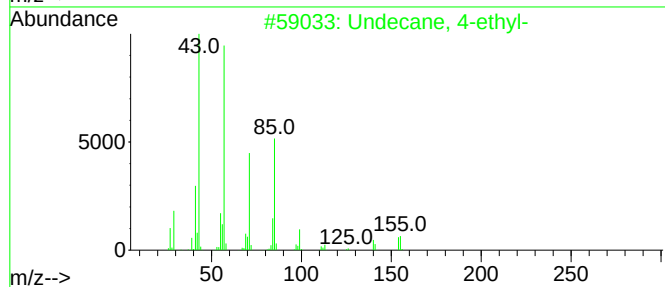
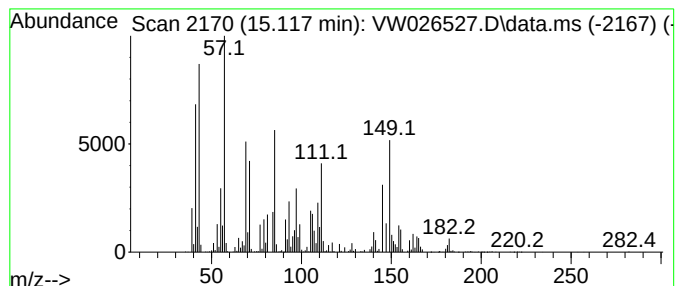
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TIC Integration Parameters: LSCINT.P

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Peak Number 37 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.117 | 17.91 ug/L | 903379 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Undecane, 4-ethyl-                  | 184 | C13H28  | 017312-59-3 | 27   |
| 2    |      | 1-Iodoundecane                      | 282 | C11H23I | 004282-44-4 | 25   |
| 3    |      | Decane, 1-iodo-                     | 268 | C10H21I | 002050-77-3 | 25   |
| 4    |      | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 25   |
| 5    |      | Decane, 3-ethyl-3-methyl-           | 184 | C13H28  | 017312-66-2 | 22   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

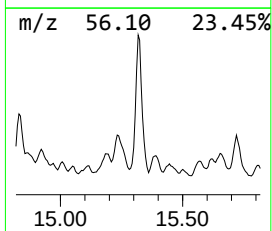
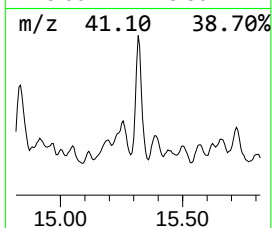
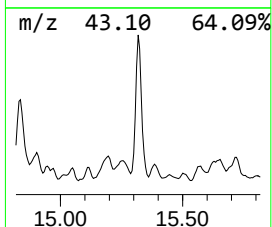
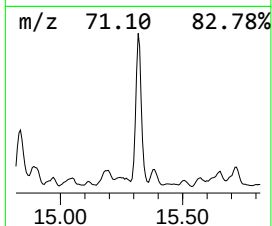
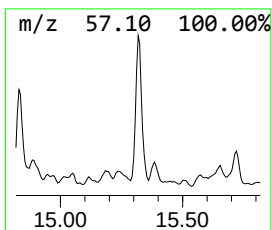
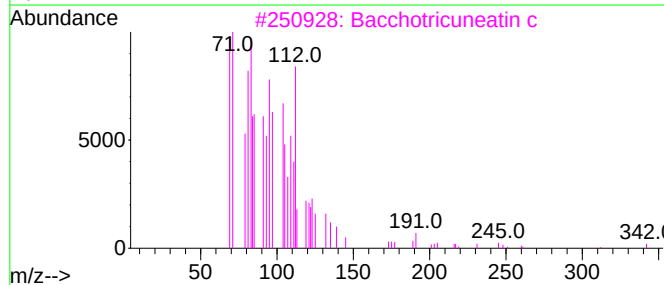
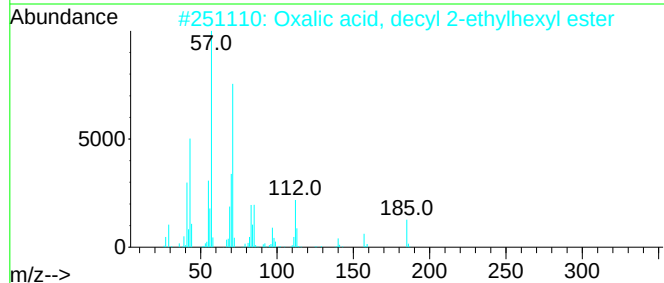
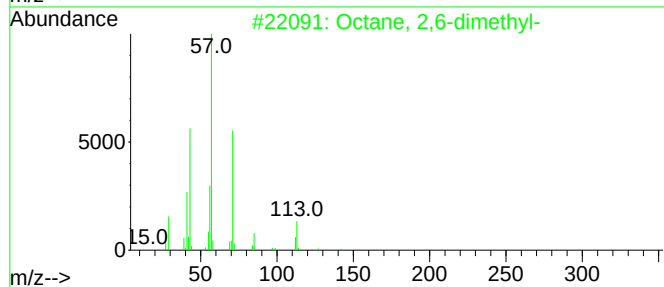
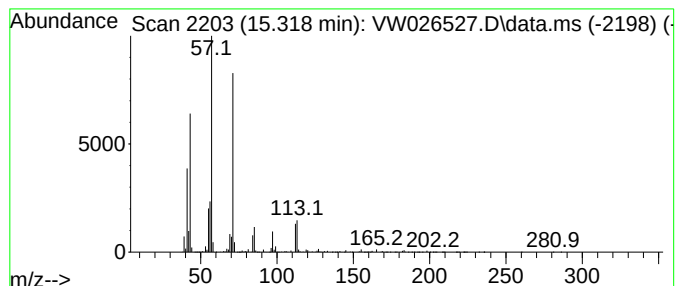
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Quant Title : SFAM01.0

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

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Peak Number 38 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 15.318 | 231.14 ug/L | 11656000 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of                                  | 5 | Tentative ID | MW  | MolForm  | CAS#         | Qual |
|------|-------------------------------------|---|--------------|-----|----------|--------------|------|
| 1    | Octane, 2,6-dimethyl-               |   |              | 142 | C10H22   | 002051-30-1  | 83   |
| 2    | Oxalic acid, decyl 2-ethylhexyl ... |   |              | 342 | C20H38O4 | 1000309-39-3 | 78   |
| 3    | Bacchotricuneatin c                 |   |              | 342 | C20H22O5 | 066563-30-2  | 72   |
| 4    | Nonane, 3-methyl-                   |   |              | 142 | C10H22   | 005911-04-6  | 64   |
| 5    | Octane, 3-ethyl-                    |   |              | 142 | C10H22   | 005881-17-4  | 59   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

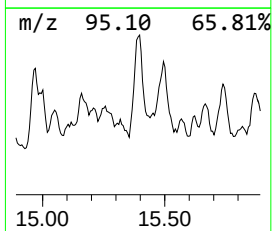
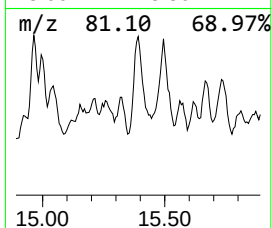
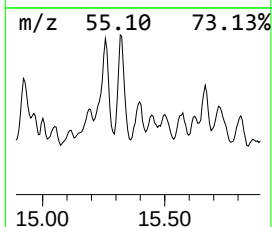
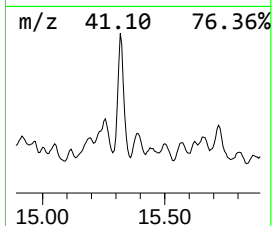
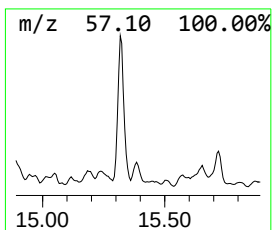
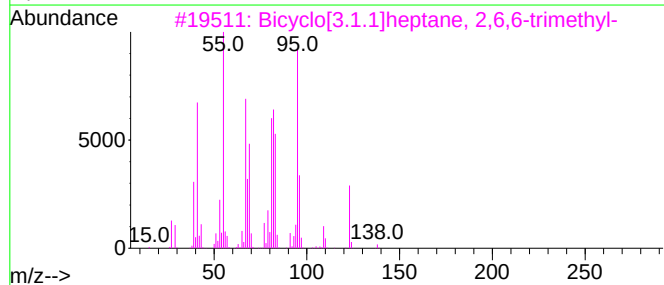
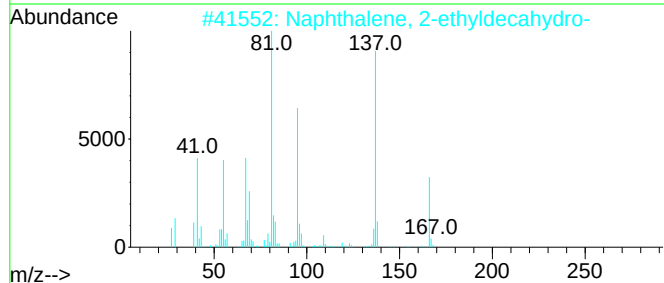
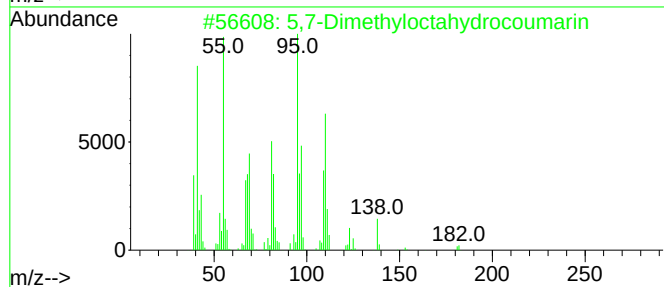
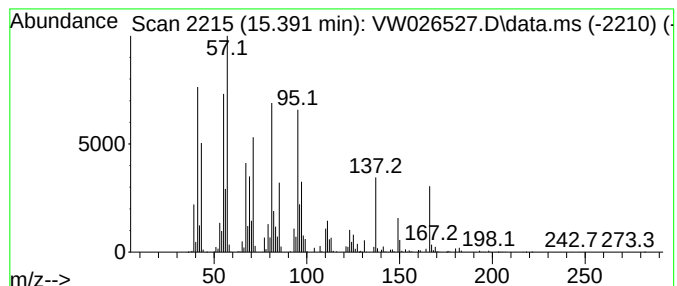
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Quant Title : SFAM01.0

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

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Peak Number 39 unknown-02 Concentration Rank 7

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.391 | 67.09 ug/L | 3383200 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 5,7-Dimethyloctahydrocoumarin       | 182 | C11H18O2 | 1000109-81-5 | 42   |
| 2    |    |   | Naphthalene, 2-ethyldecahydro-      | 166 | C12H22   | 001618-23-1  | 38   |
| 3    |    |   | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18   | 000473-55-2  | 30   |
| 4    |    |   | 4-Methyl-1,3-heptadiene             | 110 | C8H14    | 017603-57-5  | 25   |
| 5    |    |   | 1,4-Pentadiene, 2,3,3-trimethyl-    | 110 | C8H14    | 000756-02-5  | 25   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

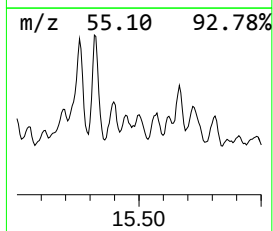
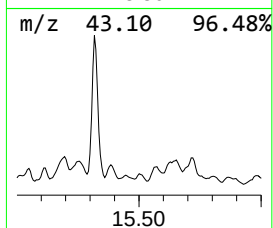
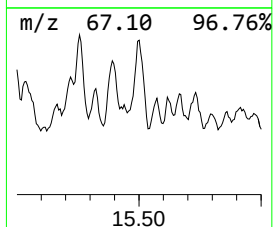
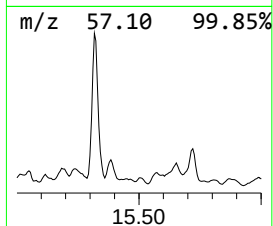
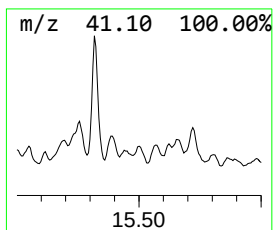
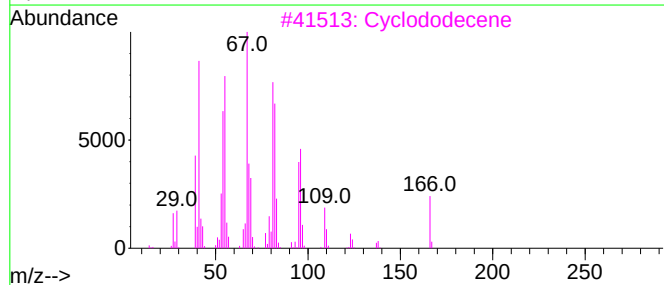
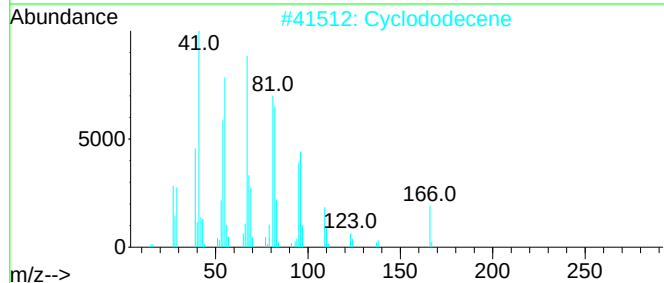
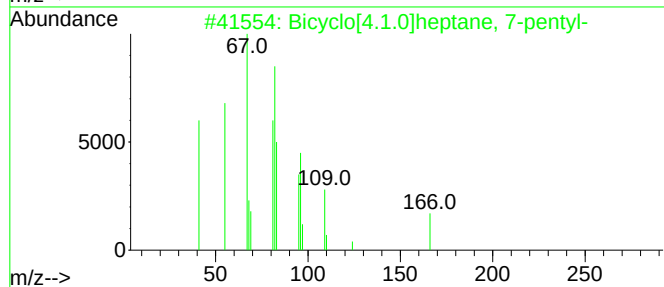
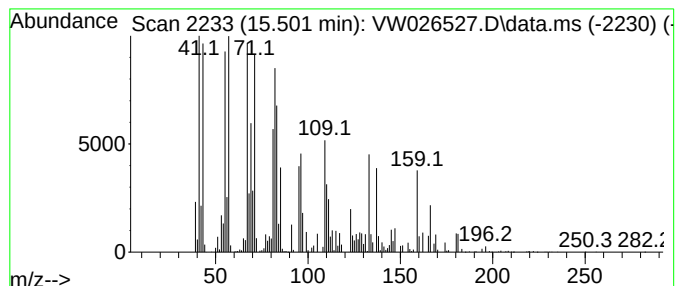
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 40 Bicyclo[4.1.0]heptane, 7-pe... Concentration Rank 13

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.501 | 46.37 ug/L | 2338250 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[4.1.0]heptane, 7-pentyl- | 166 | C12H22  | 041977-45-1 | 87   |
| 2    |    |   | Cyclododecene                    | 166 | C12H22  | 001501-82-2 | 45   |
| 3    |    |   | Cyclododecene                    | 166 | C12H22  | 001501-82-2 | 45   |
| 4    |    |   | 1-Cyclohexylheptene              | 180 | C13H24  | 114614-83-4 | 43   |
| 5    |    |   | 1,13-Tetradecadiene              | 194 | C14H26  | 021964-49-8 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

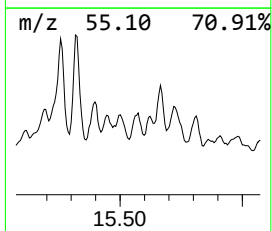
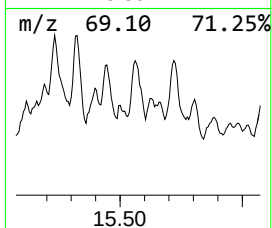
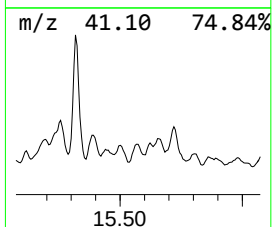
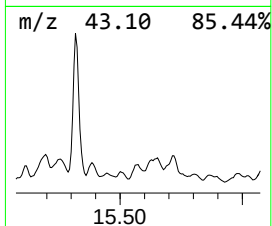
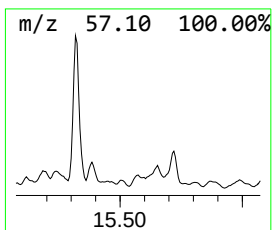
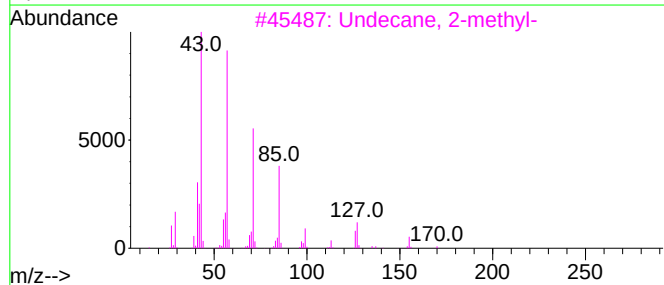
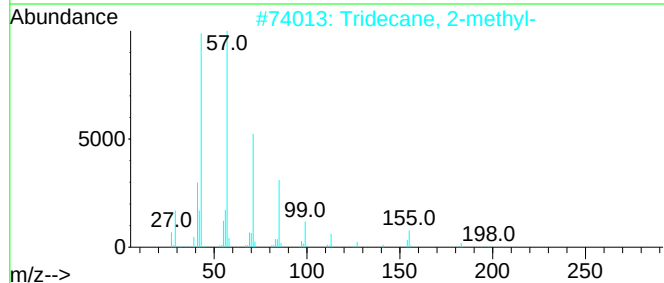
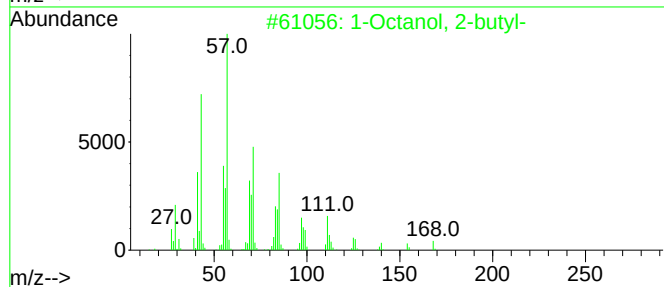
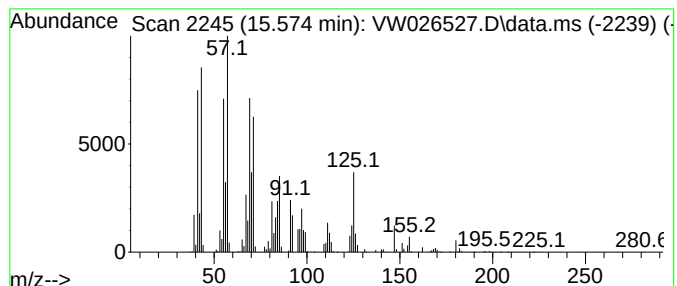
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 41 1-Octanol, 2-butyl- Concentration Rank 10

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.574 | 48.62 ug/L | 2451810 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Octanol, 2-butyl-                 | 186 | C12H26O | 003913-02-8 | 58   |
| 2    |    |   | Tridecane, 2-methyl-                | 198 | C14H30  | 001560-96-9 | 46   |
| 3    |    |   | Undecane, 2-methyl-                 | 170 | C12H26  | 007045-71-8 | 46   |
| 4    |    |   | Tridecane, 4-methyl-                | 198 | C14H30  | 026730-12-1 | 41   |
| 5    |    |   | Bicyclo[2.2.1]heptan-2-ol, 2,3,3... | 154 | C10H18O | 000465-31-6 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

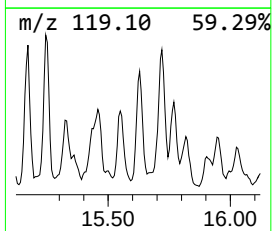
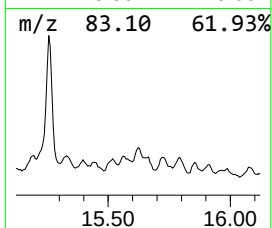
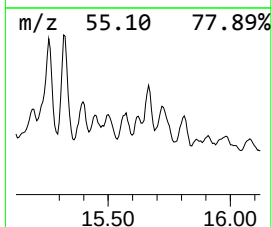
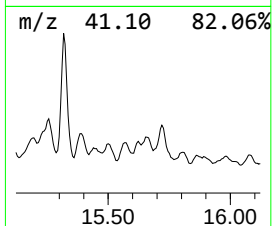
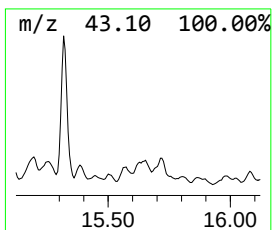
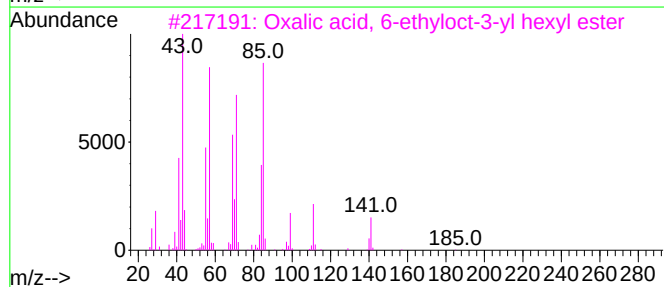
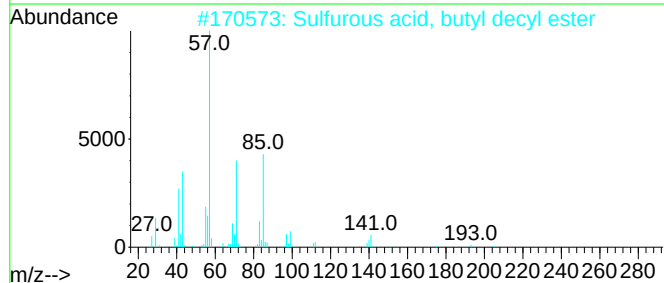
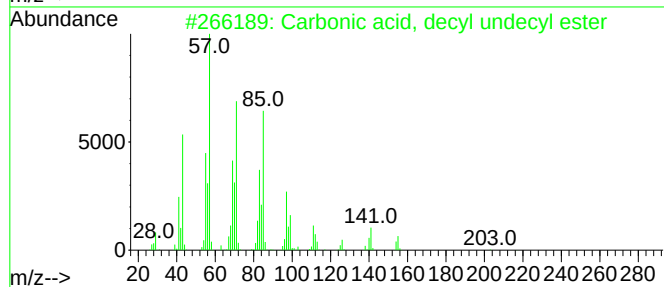
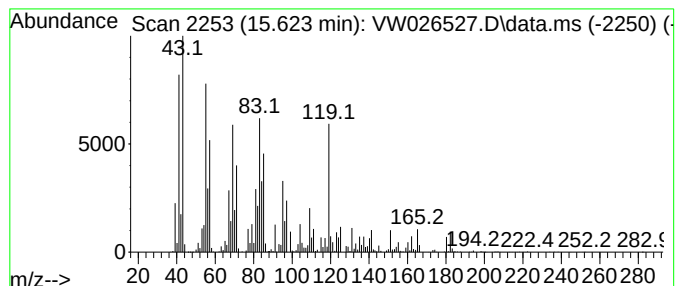
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Quant Title : SFAM01.0

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

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Peak Number 42 unknown-03 Concentration Rank 20

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.623 | 23.90 ug/L | 1205370 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Carbonic acid, decyl undecyl ester  | 356 | C22H44O3  | 1000383-16-0 | 35   |
| 2    |    |   | Sulfurous acid, butyl decyl ester   | 278 | C14H30O3S | 1000309-17-7 | 22   |
| 3    |    |   | Oxalic acid, 6-ethyloct-3-yl hex... | 314 | C18H34O4  | 1000309-34-4 | 22   |
| 4    |    |   | Decane, 4-ethyl-                    | 170 | C12H26    | 001636-44-8  | 22   |
| 5    |    |   | Cyclohexane-1,3-dione, 2-acetyl-... | 182 | C10H14O3  | 1000302-88-9 | 18   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

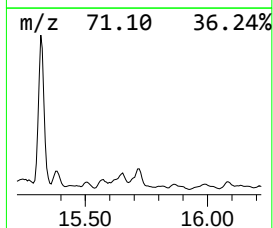
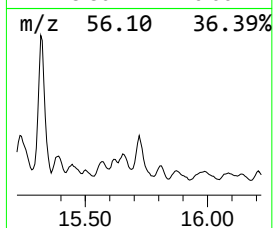
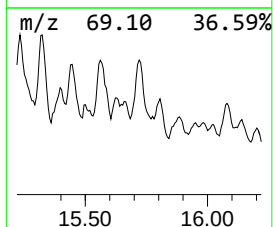
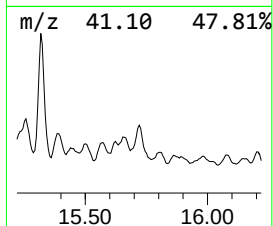
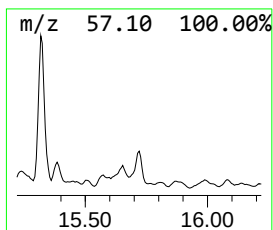
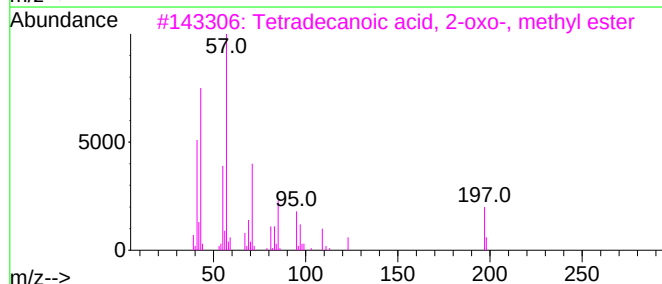
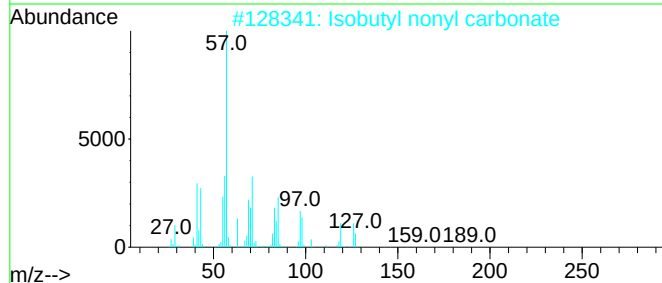
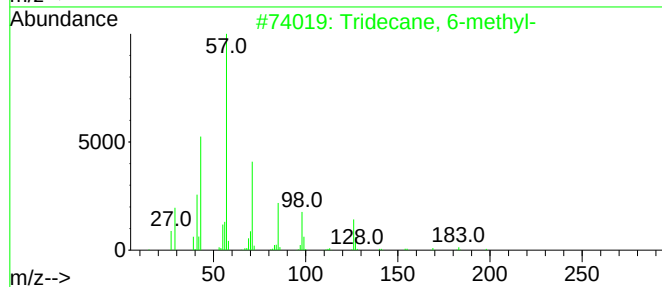
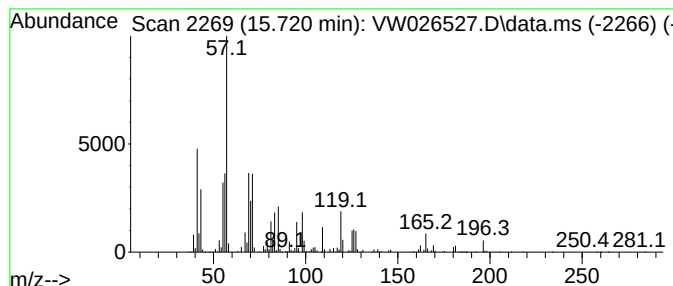
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Quant Title : SFAM01.0

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

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Peak Number 43 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.720 | 71.37 ug/L | 3599070 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Tridecane, 6-methyl-                | 198 | C14H30    | 013287-21-3  | 55   |
| 2    |    |   | Isobutyl nonyl carbonate            | 244 | C14H28O3  | 959311-27-4  | 53   |
| 3    |    |   | Tetradecanoic acid, 2-oxo-, meth... | 256 | C15H28O3  | 055682-82-1  | 43   |
| 4    |    |   | Sulfurous acid, butyl nonyl ester   | 264 | C13H28O3S | 1000309-17-6 | 38   |
| 5    |    |   | Tridecane, 6-methyl-                | 198 | C14H30    | 013287-21-3  | 37   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
Data File : VW026527.D  
Acq On : 05 Jul 2023 12:54  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.55g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

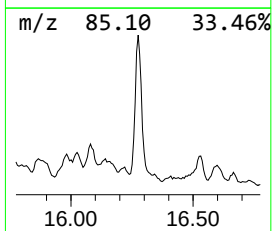
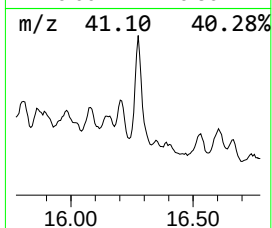
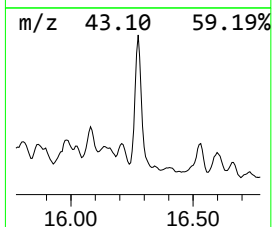
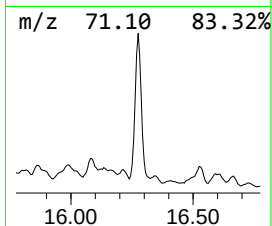
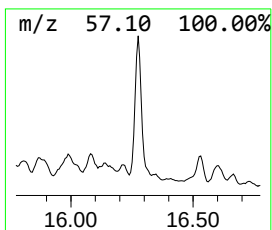
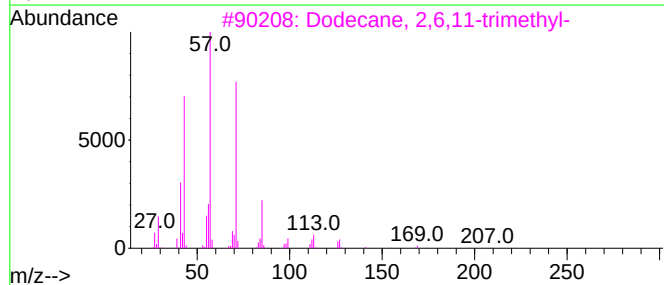
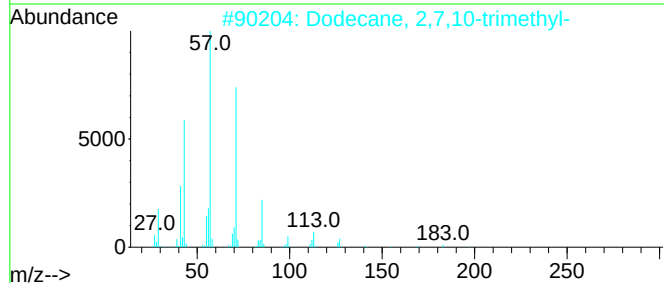
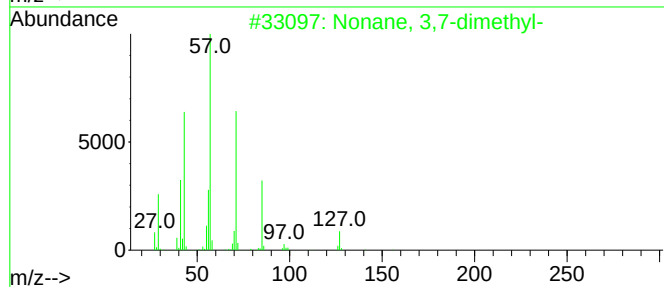
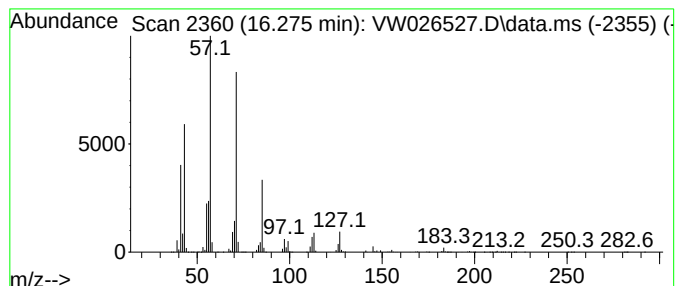
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Quant Title : SFAM01.0

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

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Peak Number 44 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 16.275 | 95.44 ug/L | 4812770 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Nonane, 3,7-dimethyl-       | 156 | C11H24  | 017302-32-8 | 90   |
| 2    |    |   | Dodecane, 2,7,10-trimethyl- | 212 | C15H32  | 074645-98-0 | 90   |
| 3    |    |   | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 90   |
| 4    |    |   | Dodecane, 2,6,10-trimethyl- | 212 | C15H32  | 003891-98-3 | 83   |
| 5    |    |   | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW070523\  
 Data File : VW026527.D  
 Acq On : 05 Jul 2023 12:54  
 Operator : SY/MD  
 Sample : 03501-05  
 Misc : 4.55g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM070323SMA.M  
 Quant Title : SFAM01.0

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

|                    |        |         |       |          | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
| TIC Top Hit name   | RT     | EstConc | Units | Response | #                     | RT     | Resp    | Conc |
| (DEL) Alkane: C... | 5.009  | 2.0     | ug/L  | 187452   | 1                     | 8.843  | 2399000 | 25.0 |
| (DEL) Alkane: S... | 10.093 | 1.5     | ug/L  | 142559   | 1                     | 8.843  | 2399000 | 25.0 |
| (DEL) Alkane: C... | 11.227 | 2.2     | ug/L  | 211021   | 2                     | 11.629 | 2418590 | 25.0 |
| (DEL) Alkane: S... | 11.507 | 2.0     | ug/L  | 191486   | 2                     | 11.629 | 2418590 | 25.0 |
| (DEL) Alkane: S... | 12.056 | 1.9     | ug/L  | 183945   | 2                     | 11.629 | 2418590 | 25.0 |
| (DEL) Alkane: S... | 12.135 | 8.8     | ug/L  | 848938   | 2                     | 11.629 | 2418590 | 25.0 |
| (DEL) Alkane: S... | 12.251 | 8.0     | ug/L  | 773145   | 2                     | 11.629 | 2418590 | 25.0 |
| (DEL) Alkane: S... | 12.361 | 22.6    | ug/L  | 2182020  | 2                     | 11.629 | 2418590 | 25.0 |
| (DEL) Alkane: C... | 12.775 | 17.0    | ug/L  | 859483   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 12.855 | 15.4    | ug/L  | 778261   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 12.934 | 43.4    | ug/L  | 2187820  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 12.989 | 15.1    | ug/L  | 758741   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 13.038 | 2.0     | ug/L  | 102255   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 13.074 | 17.3    | ug/L  | 870751   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 13.123 | 18.5    | ug/L  | 930703   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 13.160 | 16.5    | ug/L  | 834020   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 13.342 | 19.4    | ug/L  | 978827   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 13.446 | 61.7    | ug/L  | 3112500  | 3                     | 13.556 | 1260700 | 25.0 |
| unknown-01         | 13.477 | 18.7    | ug/L  | 942108   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 13.696 | 40.1    | ug/L  | 2024380  | 3                     | 13.556 | 1260700 | 25.0 |
| Benzene, 1,4-di... | 13.794 | 24.8    | ug/L  | 1252320  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 13.977 | 31.6    | ug/L  | 1593250  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.019 | 20.4    | ug/L  | 1029360  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.129 | 48.2    | ug/L  | 2428820  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.190 | 32.4    | ug/L  | 1634260  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.257 | 50.4    | ug/L  | 2542790  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.312 | 15.0    | ug/L  | 758676   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 14.379 | 137.0   | ug/L  | 6907560  | 3                     | 13.556 | 1260700 | 25.0 |
| Isobutyl tetrad... | 14.489 | 10.7    | ug/L  | 540505   | 3                     | 13.556 | 1260700 | 25.0 |
| trans-Decalin, ... | 14.544 | 48.2    | ug/L  | 2428600  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.653 | 21.4    | ug/L  | 1080160  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.733 | 23.7    | ug/L  | 1193480  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: C... | 14.793 | 81.2    | ug/L  | 4096370  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 14.836 | 228.7   | ug/L  | 11533700 | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 15.117 | 17.9    | ug/L  | 903379   | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 15.318 | 231.1   | ug/L  | 11656000 | 3                     | 13.556 | 1260700 | 25.0 |
| unknown-02         | 15.391 | 67.1    | ug/L  | 3383200  | 3                     | 13.556 | 1260700 | 25.0 |
| Bicyclo[4.1.0]h... | 15.501 | 46.4    | ug/L  | 2338250  | 3                     | 13.556 | 1260700 | 25.0 |
| 1-Octanol, 2-bu... | 15.574 | 48.6    | ug/L  | 2451810  | 3                     | 13.556 | 1260700 | 25.0 |
| unknown-03         | 15.623 | 23.9    | ug/L  | 1205370  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 15.720 | 71.4    | ug/L  | 3599070  | 3                     | 13.556 | 1260700 | 25.0 |
| (DEL) Alkane: S... | 16.275 | 95.4    | ug/L  | 4812770  | 3                     | 13.556 | 1260700 | 25.0 |